

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU083119\
 Data File : VU034102.D
 Acq On : 30 Aug 2019 16:40
 Operator : JC/SP
 Sample : VU0831MBS01
 Misc : 5.00uL/10mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBS01

Manual Integrations
 APPROVED

MMDadoda
 8/31/2019 11:24:53 AM

Quant Time: Aug 30 19:29:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	424595	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	667291	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	648672	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	341461	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	269516	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
35) Dibromofluoromethane	4.86	113	226409	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
50) Toluene-d8	7.55	98	899042	51.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.76%	
62) 4-Bromofluorobenzene	10.29	95	338647	50.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.48%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	78336	18.345	ug/l 99
3) Chloromethane	1.32	50	95063	15.215	ug/l 99
4) Vinyl Chloride	1.40	62	101865	17.923	ug/l 99
5) Bromomethane	1.62	94	53189	15.425	ug/l 100
6) Chloroethane	1.69	64	61718	17.763	ug/l 100
7) Trichlorofluoromethane	1.88	101	123721	18.787	ug/l 100
8) Diethyl Ether	2.09	74	53792	19.094	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.28	101	79866	19.144	ug/l 97
10) Methyl Iodide	2.40	142	44930	7.592	ug/l 99
11) Tert butyl alcohol	2.81	59	111448	88.831	ug/l 100
12) 1,1-Dichloroethene	2.27	96	83758	19.705	ug/l 99
13) Acrolein	2.18	56	37872	71.757	ug/l 96
14) Allyl chloride	2.58	41	134470	16.826	ug/l 91
15) Acrylonitrile	2.92	53	277381	96.348	ug/l 99
16) Acetone	2.31	43	238337	85.857	ug/l 98
17) Carbon Disulfide	2.47	76	232001	17.245	ug/l 100
18) Methyl Acetate	2.60	43	127603	17.788	ug/l 98
19) Methyl tert-butyl Ether	2.98	73	283580	20.362	ug/l 99
20) Methylene Chloride	2.69	84	98609	18.764	ug/l 98
21) trans-1,2-Dichloroethene	2.97	96	89846	19.476	ug/l 96
22) Diisopropyl ether	3.55	45	294428	20.105	ug/l 96
23) Vinyl Acetate	3.50	43	1240837	98.635	ug/l 99
24) 1,1-Dichloroethane	3.43	63	171204	19.802	ug/l 98
25) 2-Butanone	4.24	43	374785	97.041	ug/l 99
26) 2,2-Dichloropropane	4.20	77	133879	19.030	ug/l 99
27) cis-1,2-Dichloroethene	4.20	96	103216	19.934	ug/l 98
28) Bromochloromethane	4.52	49	84405	19.815	ug/l 100
29) Tetrahydrofuran	4.61	42	236032	99.099	ug/l 97
30) Chloroform	4.65	83	167252	19.389	ug/l 98
31) Cyclohexane	4.97	56	147625	18.171	ug/l 94
32) 1,1,1-Trichloroethane	4.89	97	138326	19.579	ug/l 99
36) 1,1-Dichloropropene	5.12	75	122744	19.447	ug/l 99
37) Ethyl Acetate	4.36	43	139820	19.782	ug/l 99
38) Carbon Tetrachloride	5.11	117	116723	19.159	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	124201	16.695	ug/l	98
40) Benzene	5.37	78	376672	19.725	ug/l	100
41) Methacrylonitrile	4.52	41	72086	19.887	ug/l	96
42) 1,2-Dichloroethane	5.38	62	130272	19.755	ug/l	99
43) Isopropyl Acetate	5.53	43	211925	19.709	ug/l	99
44) Trichloroethene	6.17	130	100634	20.068	ug/l	98
45) 1,2-Dichloropropane	6.41	63	105312	20.034	ug/l	99
46) Dibromomethane	6.54	93	68254	20.153	ug/l	99
47) Bromodichloromethane	6.74	83	129102	19.484	ug/l	99
48) Methyl methacrylate	6.60	41	101160	19.496	ug/l	96
49) 1,4-Dioxane	6.59	88	47306	363.867	ug/l	97
51) 4-Methyl-2-Pentanone	7.44	43	723516	97.430	ug/l	99
52) Toluene	7.62	92	243783	20.723	ug/l	99
53) t-1,3-Dichloropropene	7.86	75	143678	19.542	ug/l	98
54) cis-1,3-Dichloropropene	7.25	75	160540	19.987	ug/l	98
55) 1,1,2-Trichloroethane	8.05	97	102318	20.562	ug/l	98
56) Ethyl methacrylate	8.00	69	146285	18.351	ug/l	99
57) 1,3-Dichloropropane	8.22	76	170017	20.123	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.11	63	288818	104.916	ug/l	98
59) 2-Hexanone	8.34	43	547896	97.734	ug/l	99
60) Dibromochloromethane	8.46	129	103449	19.367	ug/l	98
61) 1,2-Dibromoethane	8.57	107	102002	19.460	ug/l	96
64) Tetrachloroethene	8.21	164	87235	20.025	ug/l	99
65) Chlorobenzene	9.10	112	268640	20.124	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.19	131	92586	19.127	ug/l	99
67) Ethyl Benzene	9.23	91	457774	20.230	ug/l	99
68) m/p-Xylenes	9.36	106	352748	40.997	ug/l	99
69) o-Xylene	9.76	106	168586	20.423	ug/l	99
70) Styrene	9.77	104	296296	20.934	ug/l	100
71) Bromoform	9.94	173	76867	18.277	ug/l #	99
73) Isopropylbenzene	10.15	105	442183	19.279	ug/l	100
74) N-amyl acetate	10.00	43	193973	20.108	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	10.44	83	169475	19.305	ug/l	98
76) 1,2,3-Trichloropropane	10.48	75	143544m	18.652	ug/l	
77) Bromobenzene	10.43	156	122818	19.906	ug/l	99
78) n-propylbenzene	10.57	91	507784	19.010	ug/l	100
79) 2-Chlorotoluene	10.64	91	314460	19.628	ug/l	100
80) 1,3,5-Trimethylbenzene	10.75	105	369883	19.027	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.49	75	52295m	22.881	ug/l	
82) 4-Chlorotoluene	10.76	91	362768	19.688	ug/l	99
83) tert-Butylbenzene	11.08	119	340196	17.777	ug/l	99
84) 1,2,4-Trimethylbenzene	11.13	105	375781	19.467	ug/l	99
85) sec-Butylbenzene	11.31	105	384577	16.767	ug/l	99
86) p-Isopropyltoluene	11.46	119	354506	17.089	ug/l	100
87) 1,3-Dichlorobenzene	11.40	146	217105	19.876	ug/l	99
88) 1,4-Dichlorobenzene	11.49	146	219209	19.844	ug/l	100
89) n-Butylbenzene	11.87	91	310751	16.991	ug/l	99
90) Hexachloroethane	12.13	117	50179	13.991	ug/l	95
91) 1,2-Dichlorobenzene	11.86	146	214325	20.484	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	35109	20.075	ug/l	99

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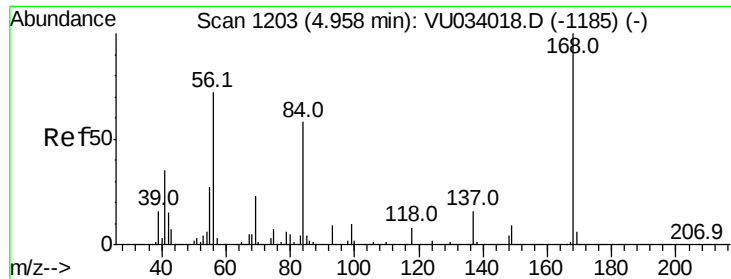
Manual Integrations
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MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.49	180	139257	19.409	ug/l	97
94) Hexachlorobutadiene	13.67	225	49977	12.210	ug/l	94
95) Naphthalene	13.73	128	540224	26.229	ug/l	100
96) 1,2,3-Trichlorobenzene	13.97	180	143374	21.391	ug/l #	85

(#) = 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: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion:168 Resp: 424595

Ion Ratio Lower Upper

168 100

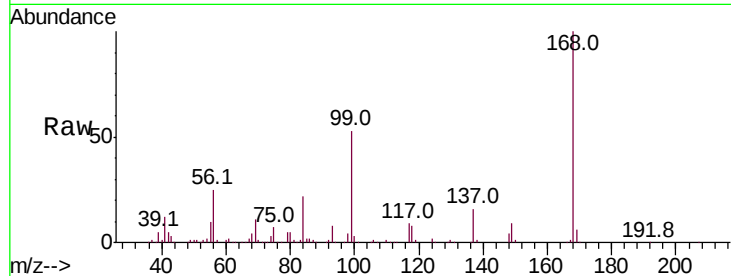
99 52.6 42.3 63.5

Manual Integrations

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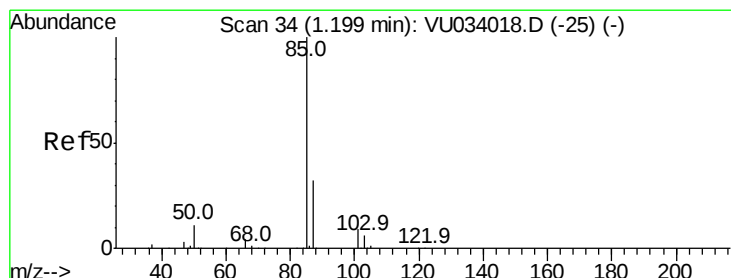
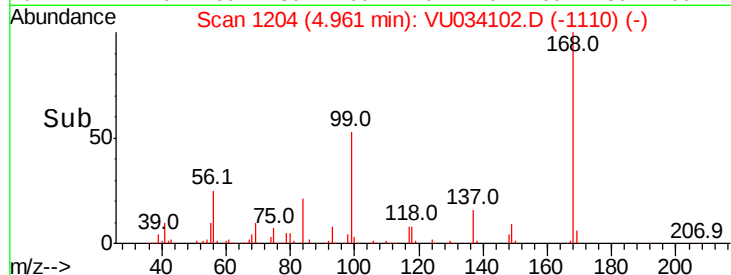
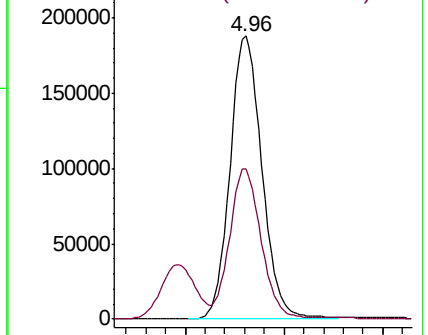
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#2

Dichlorodifluoromethane

Concen: 18.345 ug/l

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU034102.D

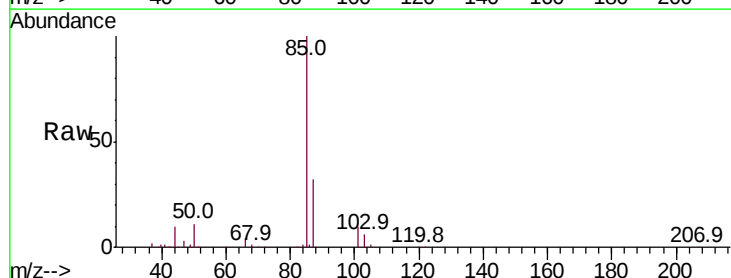
Acq: 30 Aug 2019 16:40

Tgt Ion: 85 Resp: 78336

Ion Ratio Lower Upper

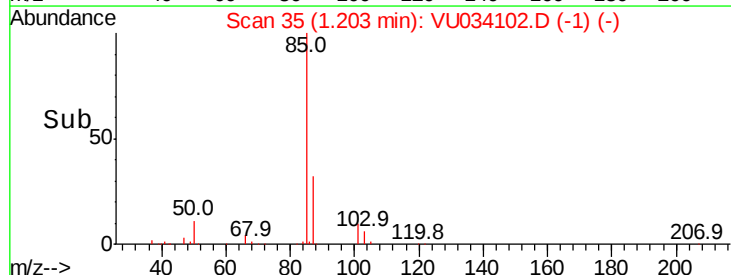
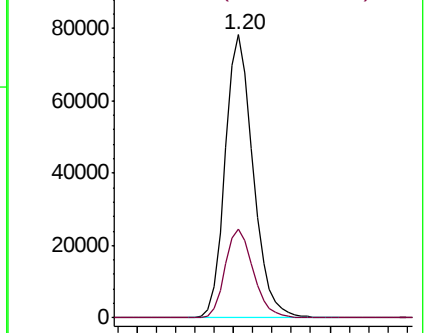
85 100

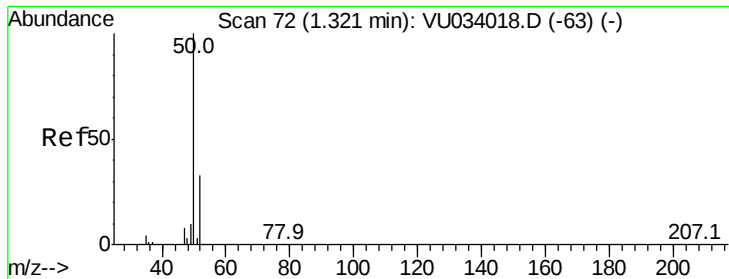
87 31.5 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VU0

Ion 86.90 (86.60 to 87.60): VU0





#3

Chloromethane

Concen: 15.215 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion: 50 Resp: 95063

Ion Ratio Lower Upper

50 100

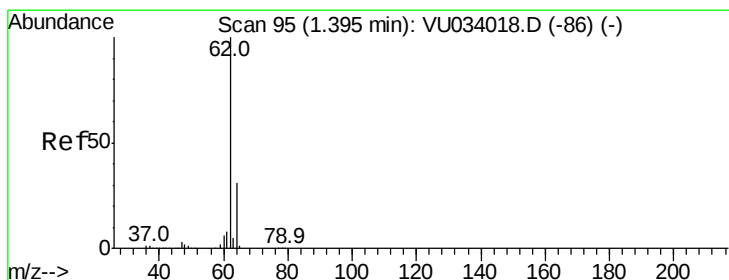
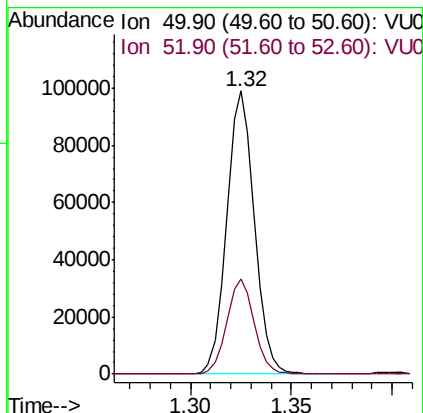
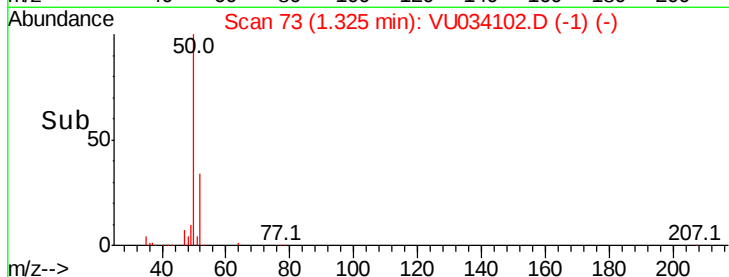
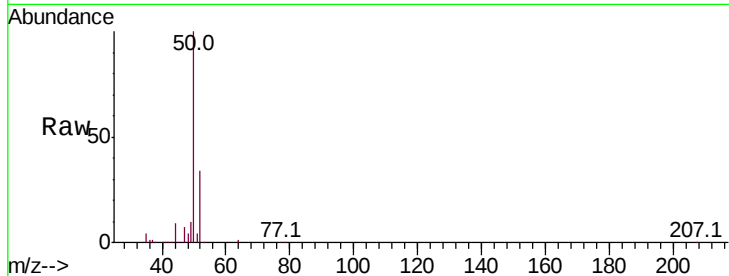
52 33.6 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 17.923 ug/l

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034102.D

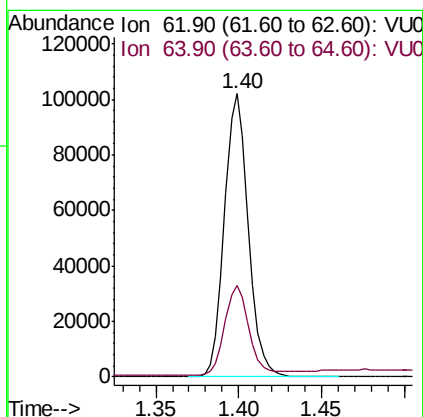
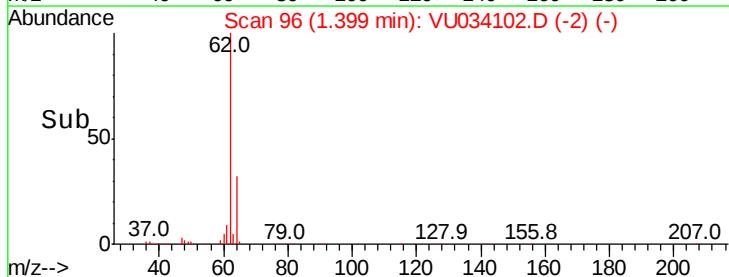
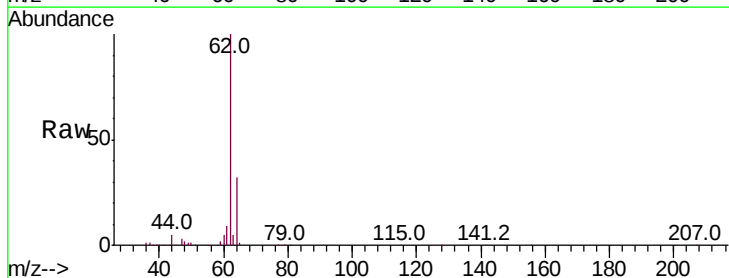
Acq: 30 Aug 2019 16:40

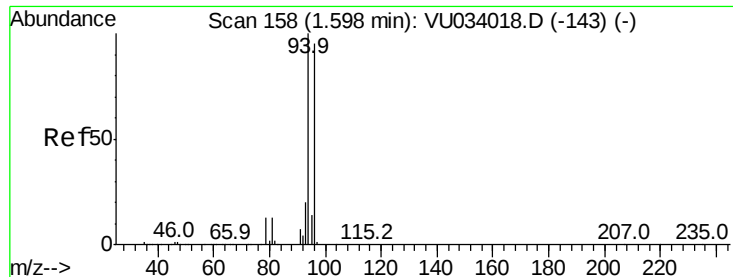
Tgt Ion: 62 Resp: 101865

Ion Ratio Lower Upper

62 100

64 31.9 25.0 37.6





#5

Bromomethane

Concen: 15.425 ug/l

RT: 1.62 min Scan# 164

Delta R.T. 0.02 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion: 94 Resp: 53189

Ion Ratio Lower Upper

94 100

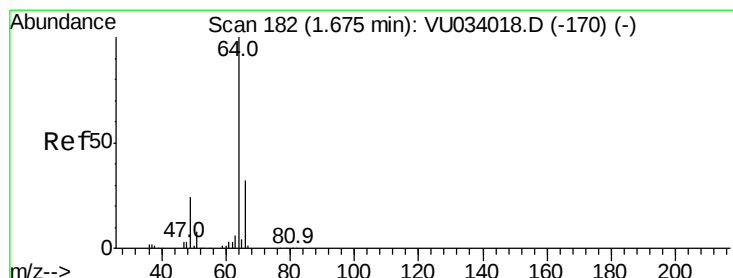
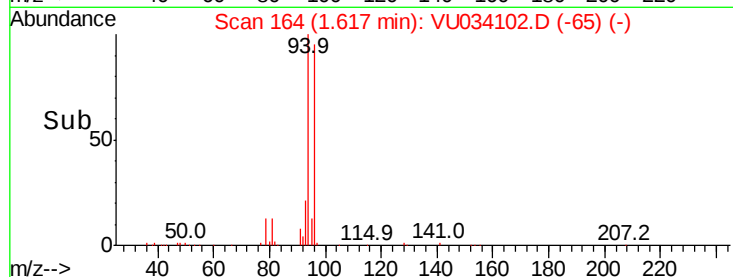
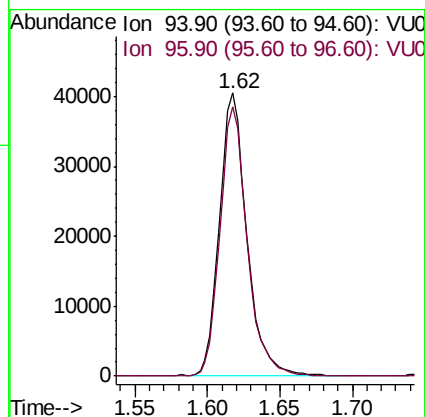
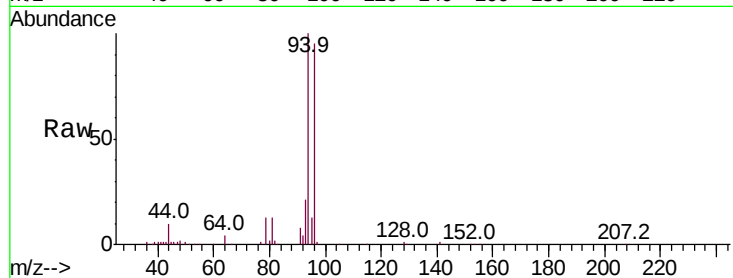
96 95.1 76.3 114.5

Manual Integrations

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#6

Chloroethane

Concen: 17.763 ug/l

RT: 1.69 min Scan# 187

Delta R.T. 0.02 min

Lab File: VU034102.D

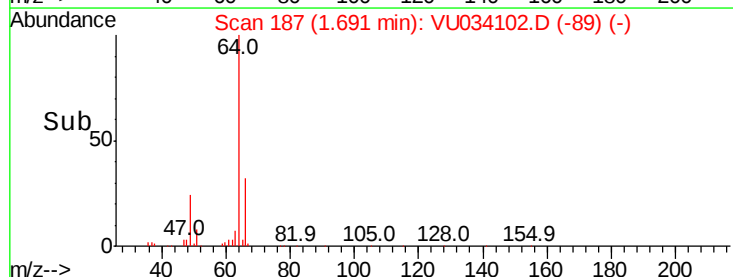
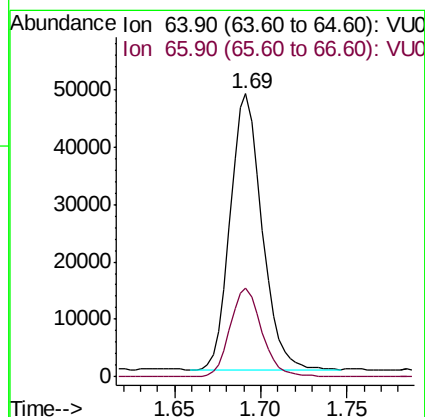
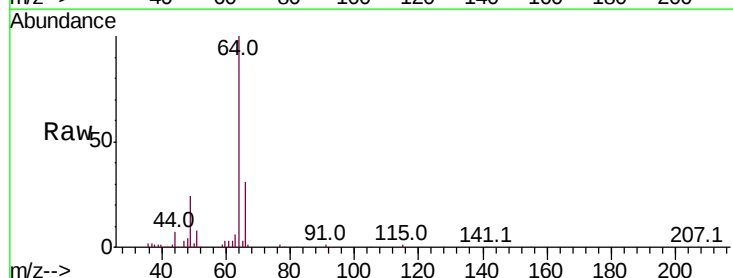
Acq: 30 Aug 2019 16:40

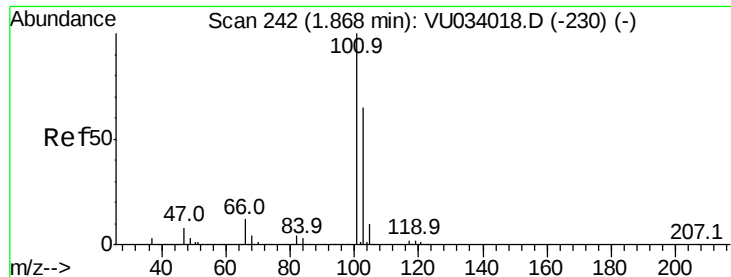
Tgt Ion: 64 Resp: 61718

Ion Ratio Lower Upper

64 100

66 32.1 25.5 38.3





#7

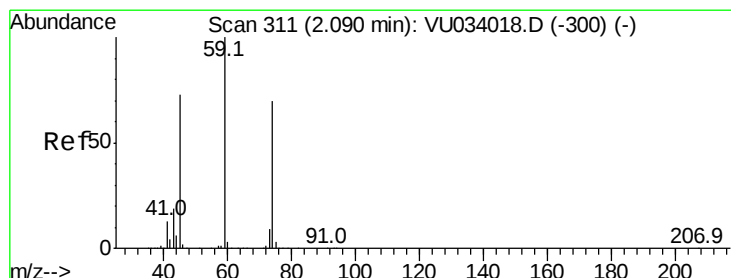
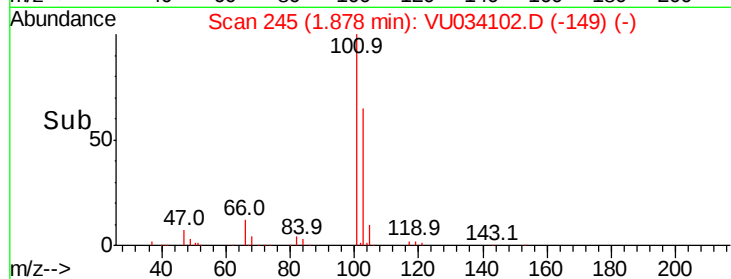
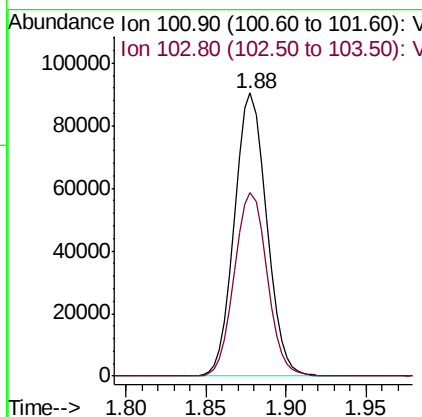
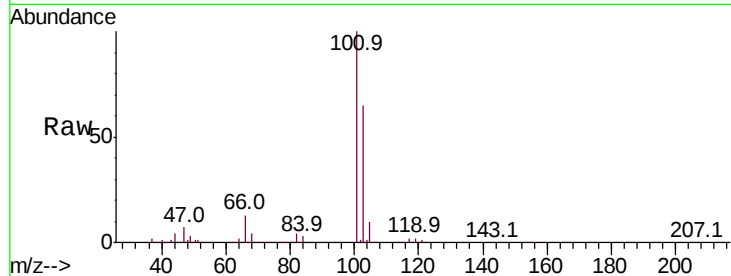
Trichlorofluoromethane
Concen: 18.787 ug/l
RT: 1.88 min Scan# 245
Delta R.T. 0.01 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

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VU0831MBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	123721		
103	64.9	52.1	78.1	

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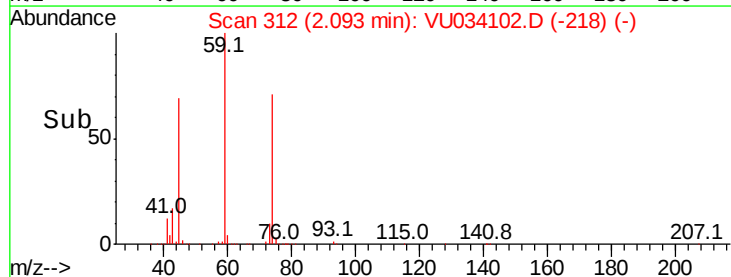
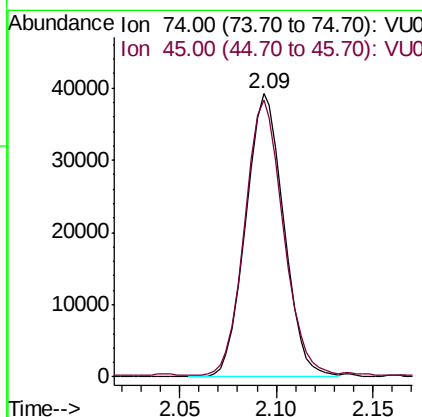
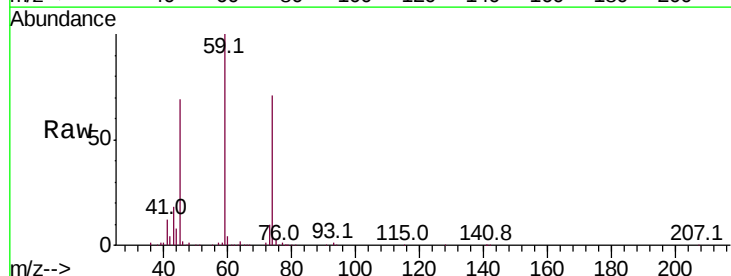
MMDadoda
8/31/2019 11:24:53 AM

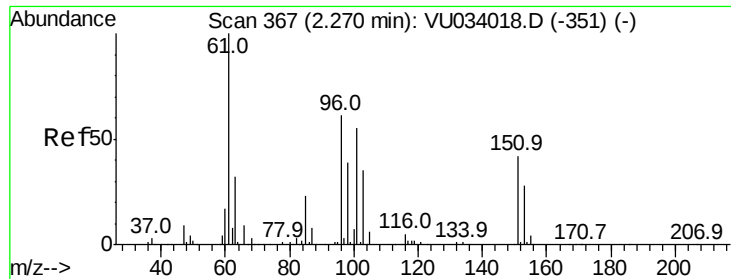


#8

Diethyl Ether
Concen: 19.094 ug/l
RT: 2.09 min Scan# 312
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	53792		
45	99.1	51.8	155.5	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.144 ug/l

RT: 2.28 min Scan# 369

Delta R.T. 0.01 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

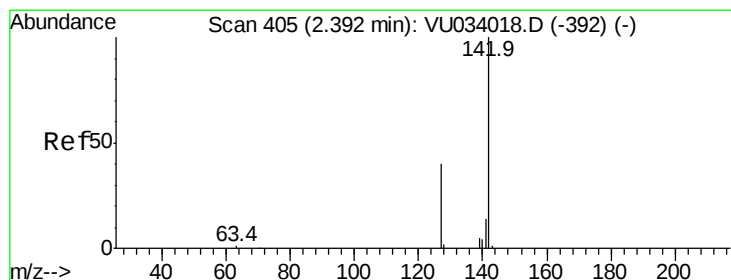
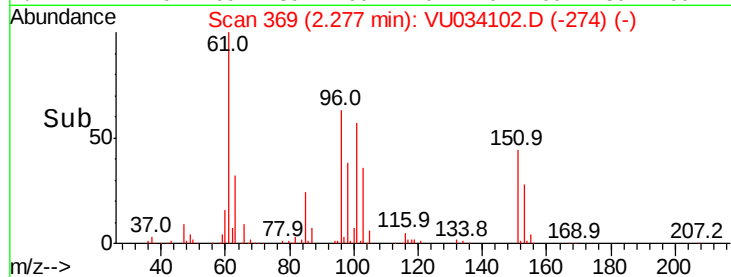
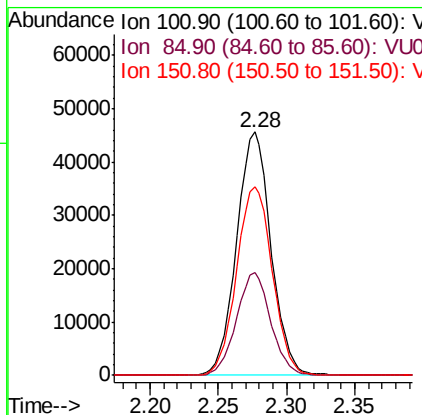
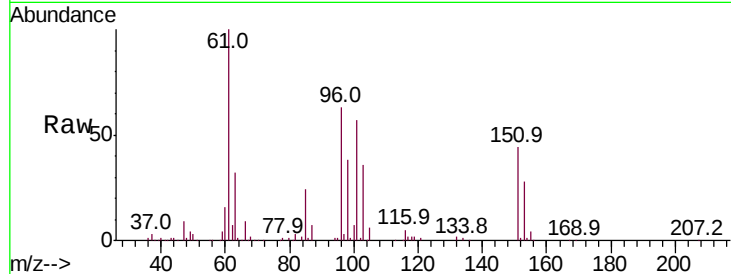
ClientSampleId :

VU0831MBS01

Tot Ion:	101	Resp:	79866
Ion Ratio	Lower	Upper	
101	100		
85	41.8	34.2	51.2
151	80.6	61.4	92.2

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#10

Methyl Iodide

Concen: 7.592 ug/l

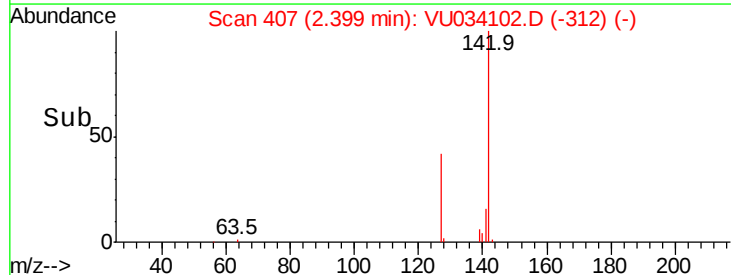
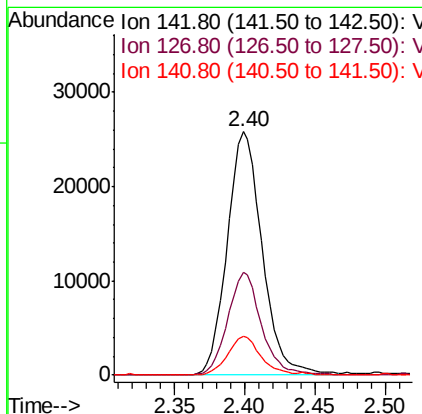
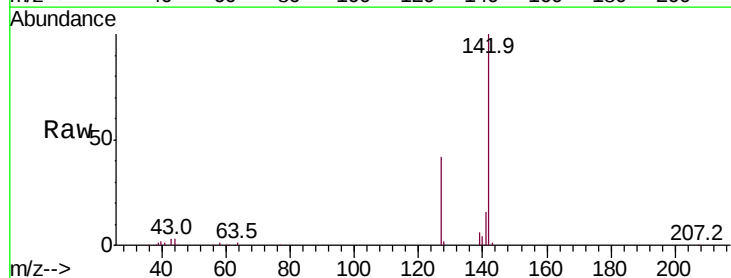
RT: 2.40 min Scan# 407

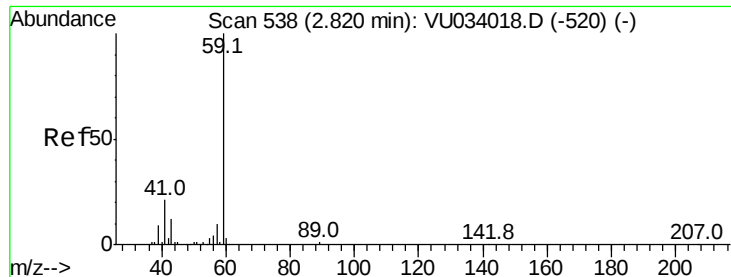
Delta R.T. 0.01 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Tgt Ion:	142	Resp:	44930
Ion Ratio	Lower	Upper	
142	100		
127	40.6	32.6	48.8
141	15.0	11.3	16.9





#11

Tert butyl alcohol

Concen: 88.831 ug/l

RT: 2.81 min Scan# 534

Delta R.T. -0.01 min

Lab File: VU034102.D

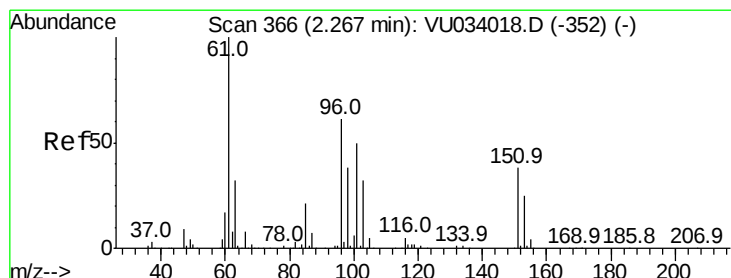
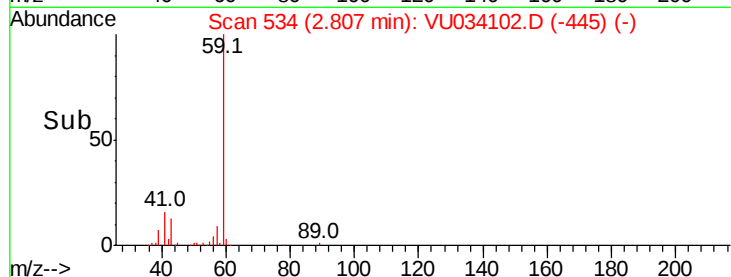
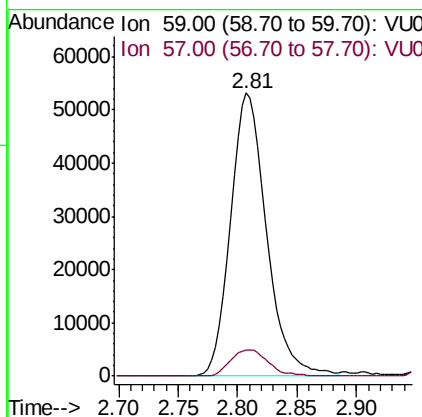
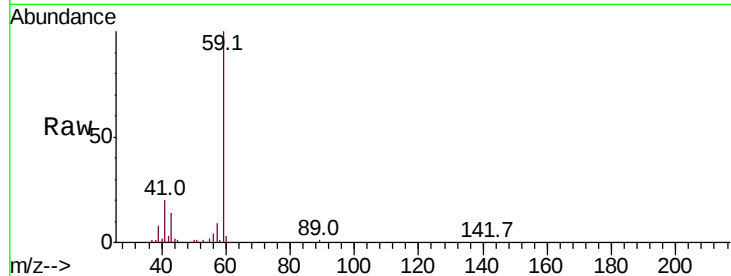
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.0	12.0

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#12

1,1-Dichloroethene

Concen: 19.705 ug/l

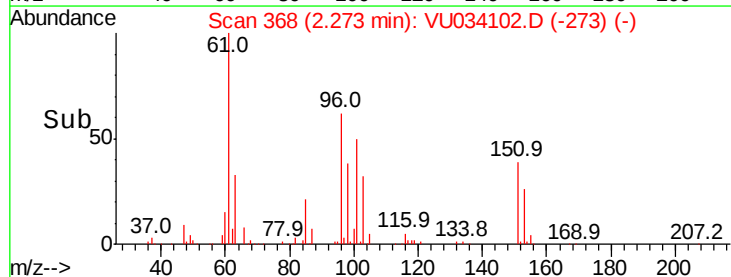
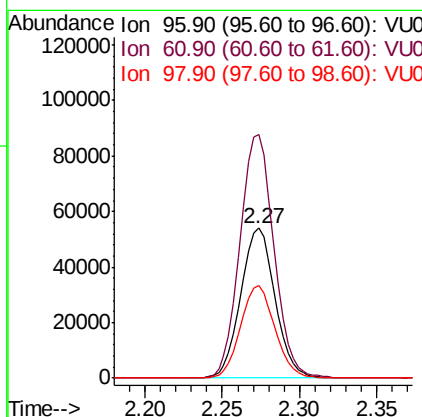
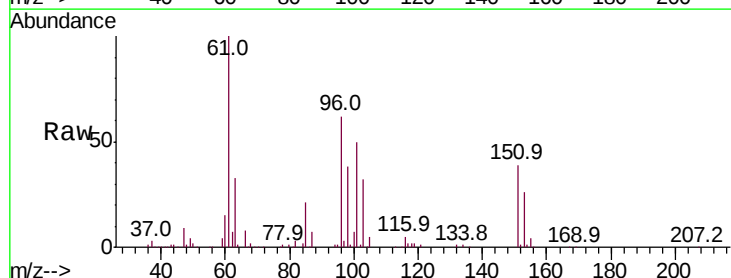
RT: 2.27 min Scan# 368

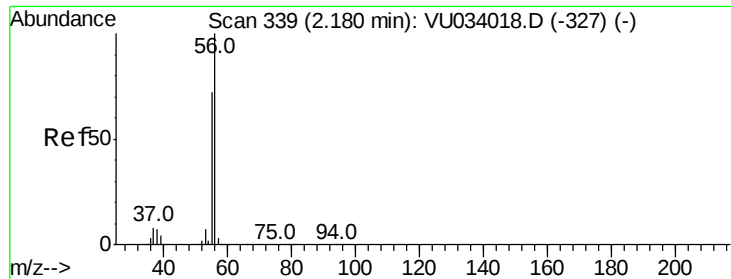
Delta R.T. 0.01 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.3	131.3	196.9
98	61.4	50.3	75.5





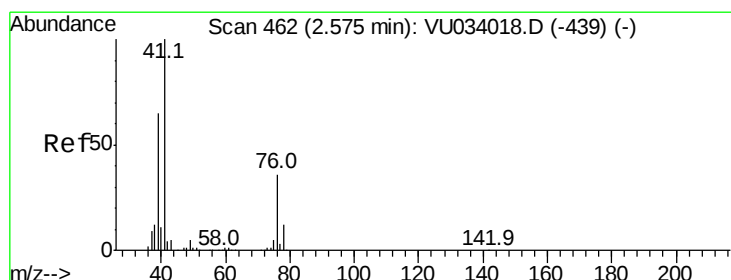
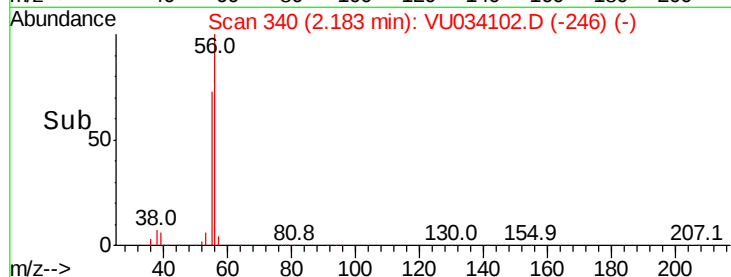
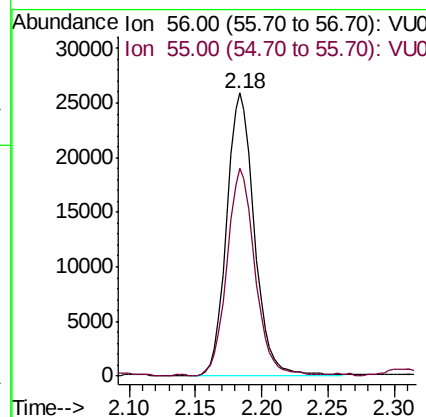
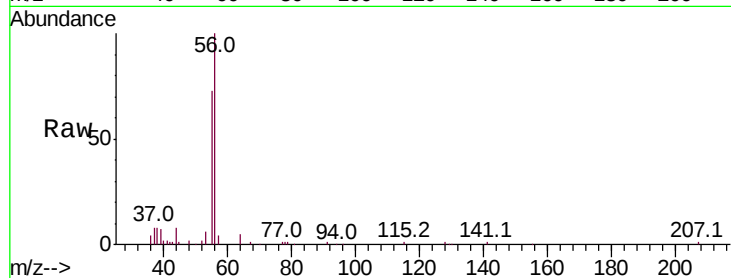
#13
Acrolein
Concen: 71.757 ug/l
RT: 2.18 min Scan# 340
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion: 56 Resp: 37872
Ion Ratio Lower Upper
56 100
55 74.4 57.1 85.7

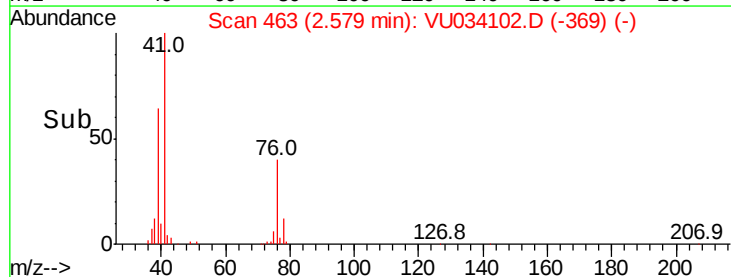
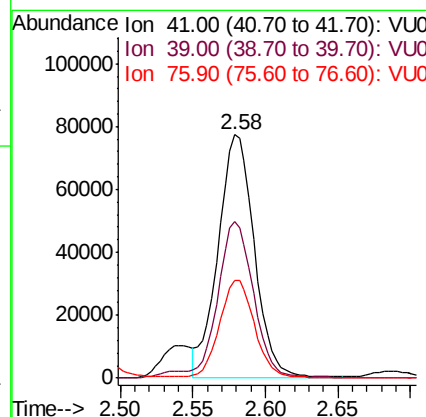
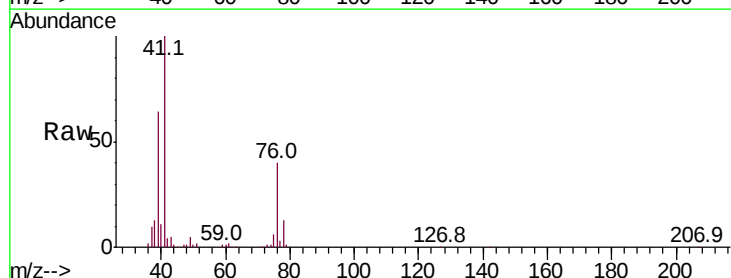
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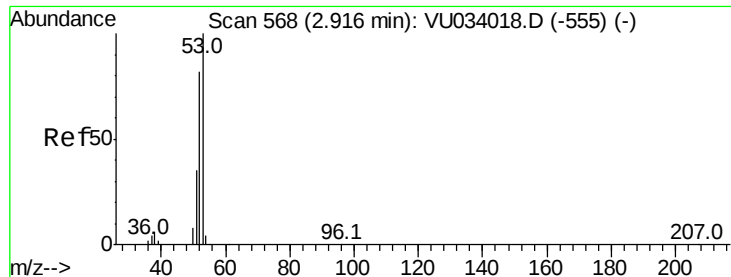
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#14
Allyl chloride
Concen: 16.826 ug/l
RT: 2.58 min Scan# 463
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion: 41 Resp: 134470
Ion Ratio Lower Upper
41 100
39 64.9 46.8 70.2
76 39.1 26.6 40.0





#15

Acrylonitrile

Concen: 96.348 ug/l

RT: 2.92 min Scan# 569

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

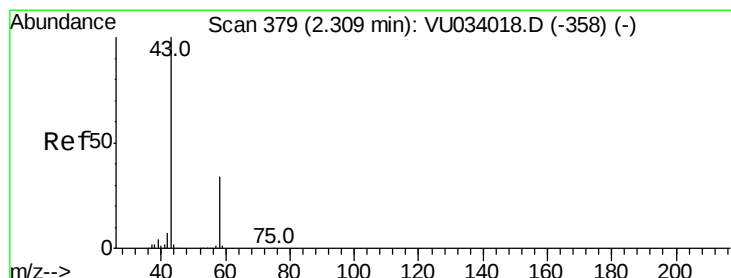
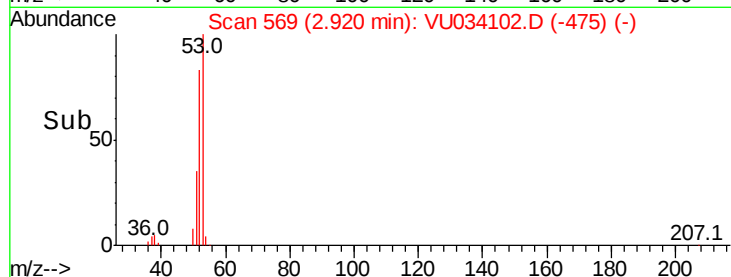
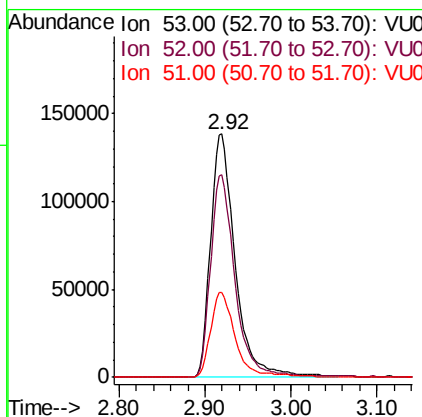
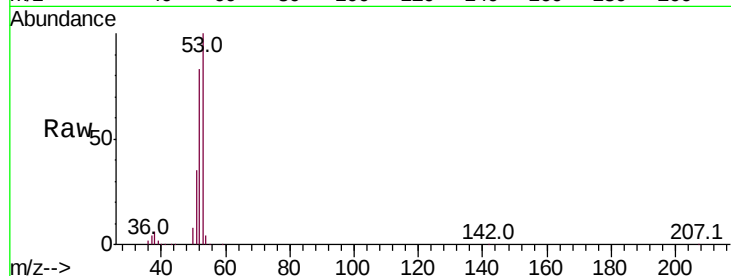
ClientSampleId :

VU0831MBS01

Tot Ion	53	Resp	277381
Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.7	98.5
51	35.5	27.9	41.9

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#16

Acetone

Concen: 85.857 ug/l

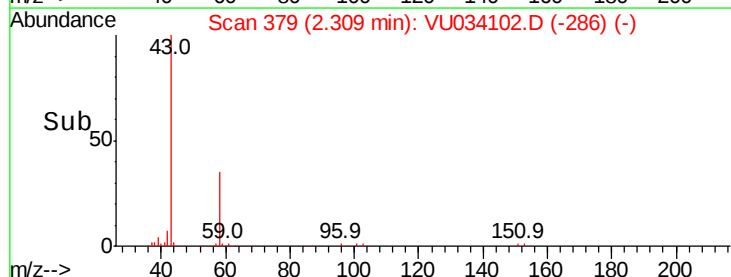
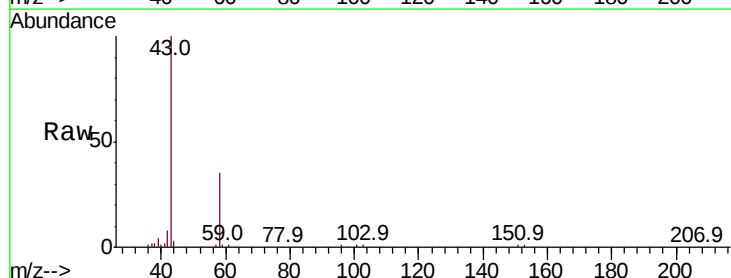
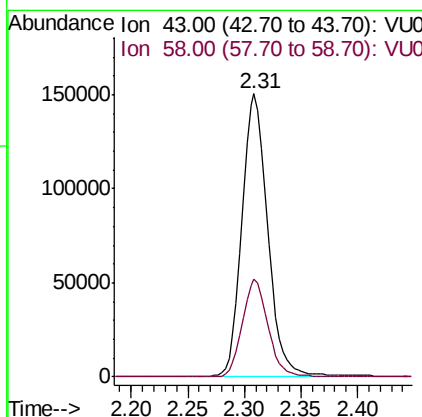
RT: 2.31 min Scan# 379

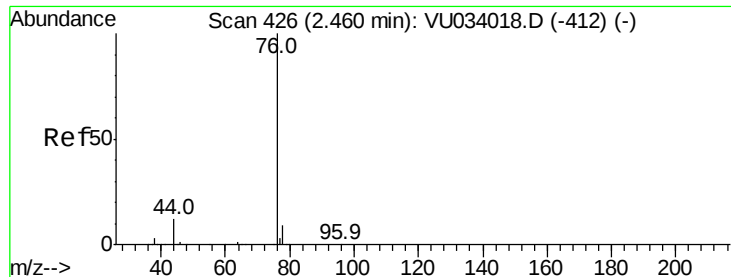
Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Tgt Ion	43	Resp	238337
Ion	Ratio	Lower	Upper
43	100		
58	34.7	26.8	40.2





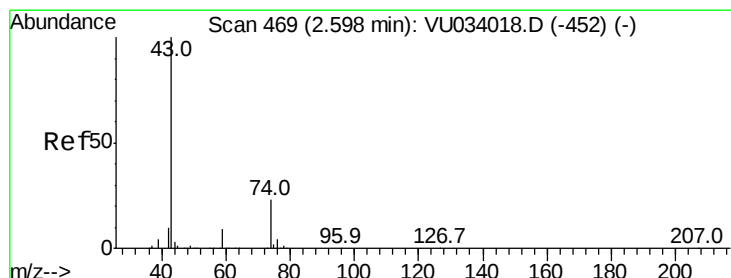
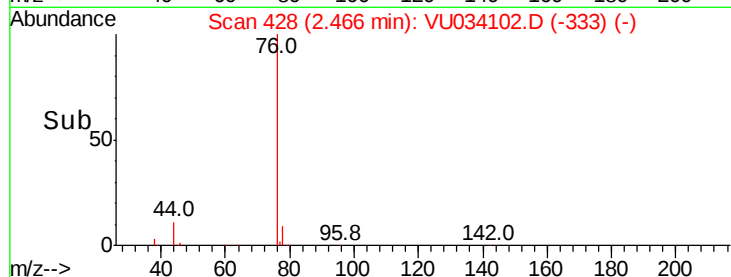
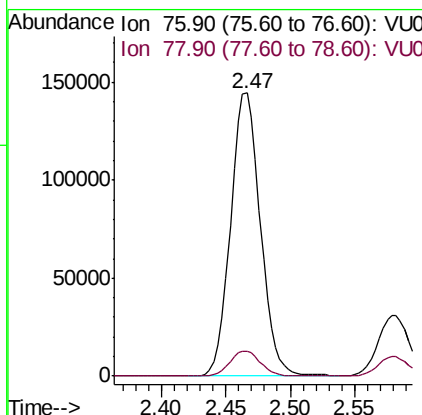
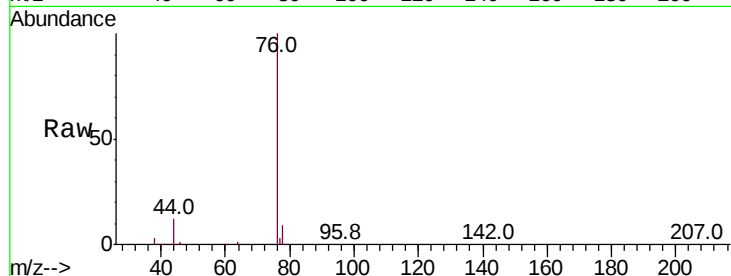
#17
Carbon Disulfide
Concen: 17.245 ug/l
RT: 2.47 min Scan# 428
Delta R.T. 0.01 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7

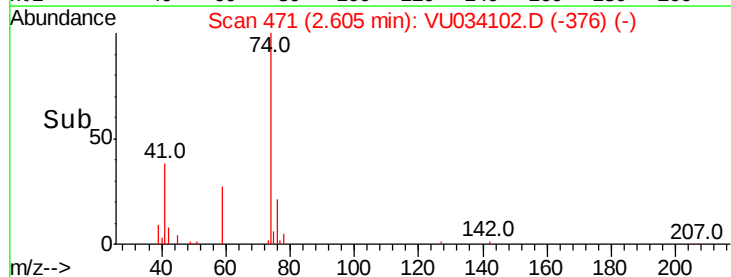
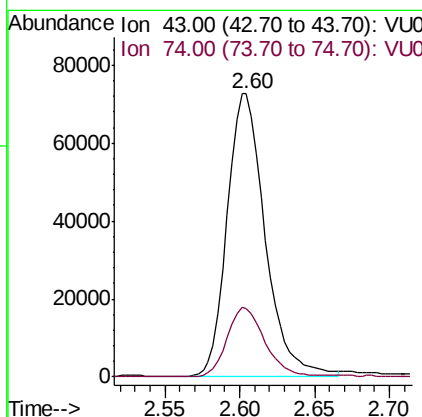
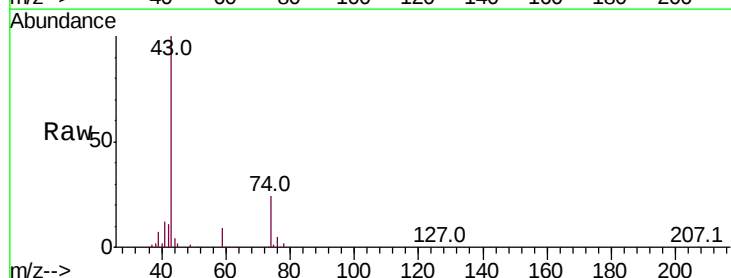
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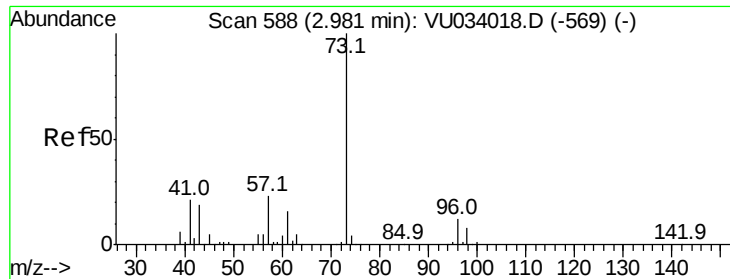
MMDadoda
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#18
Methyl Acetate
Concen: 17.788 ug/l
RT: 2.60 min Scan# 471
Delta R.T. 0.01 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.1	19.2	28.8





#19

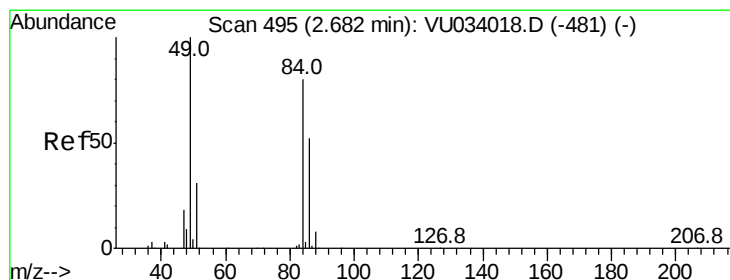
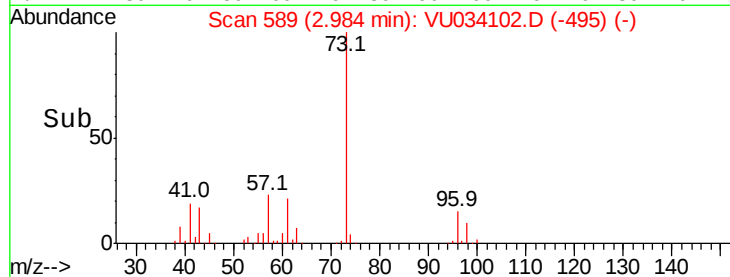
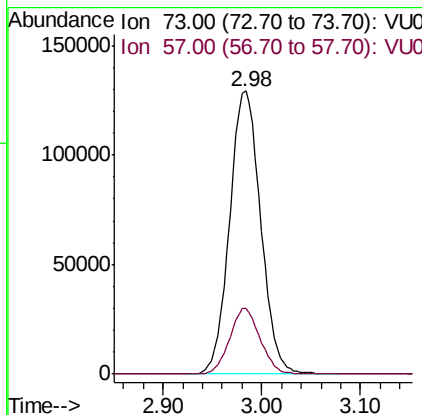
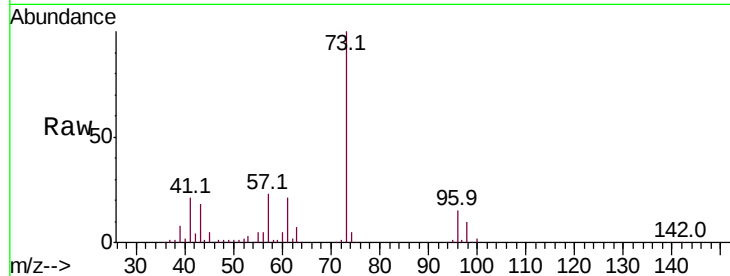
Methyl tert-butyl Ether
 Concen: 20.362 ug/l
 RT: 2.98 min Scan# 589
 Delta R.T. 0.00 min
 Lab File: VU034102.D
 Acq: 30 Aug 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.4	18.3	27.5

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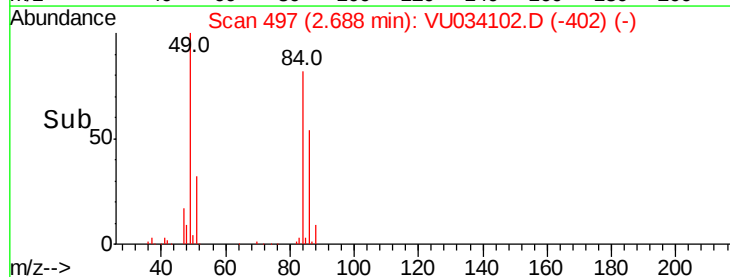
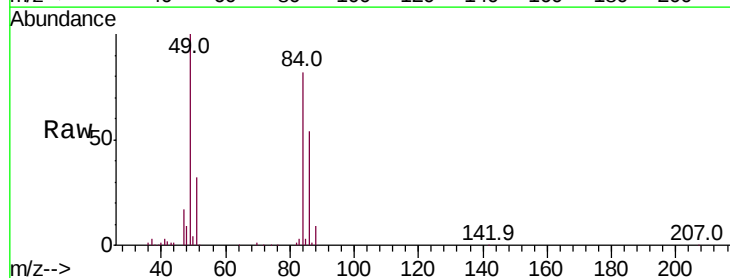
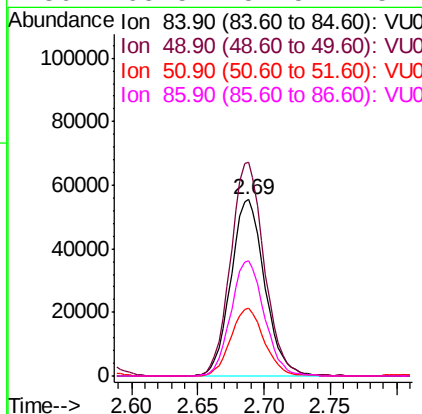
MMDadoda
 8/31/2019 11:24:53 AM

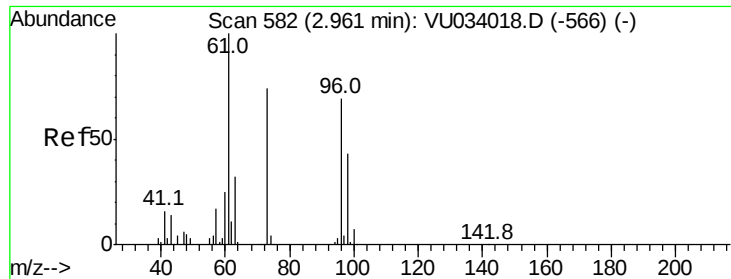


#20

Methylene Chloride
 Concen: 18.764 ug/l
 RT: 2.69 min Scan# 497
 Delta R.T. 0.01 min
 Lab File: VU034102.D
 Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
84	100		
49	121.3	100.2	150.4
51	38.2	30.8	46.2
86	65.5	52.5	78.7





#21

trans-1,2-Dichloroethene

Concen: 19.476 ug/l

RT: 2.97 min Scan# 584

Delta R.T. 0.01 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

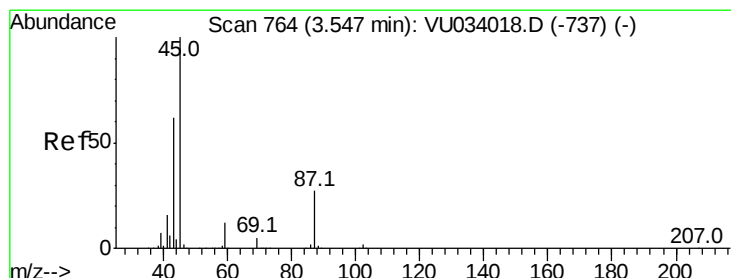
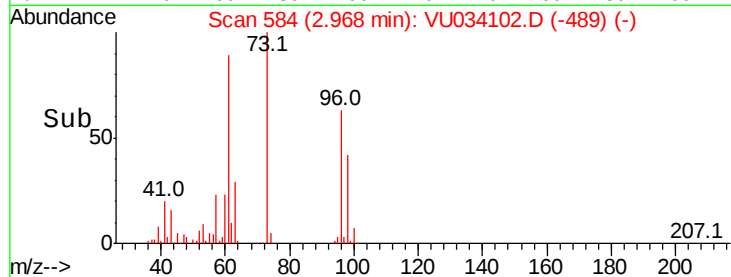
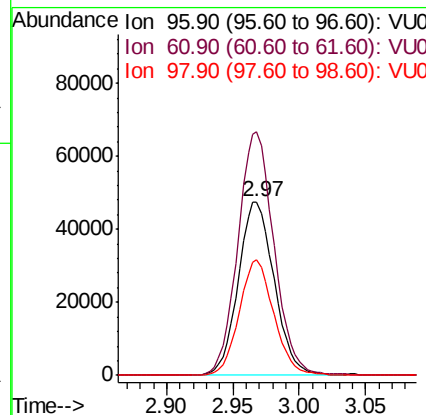
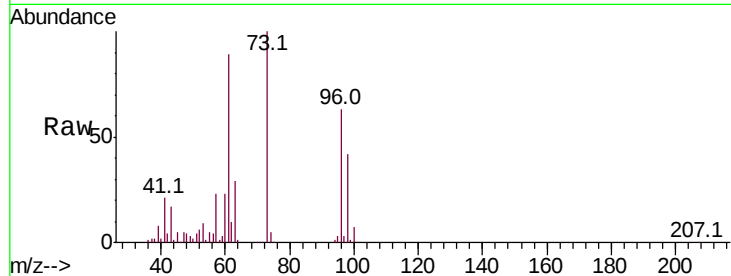
ClientSampleId :

VU0831MBS01

Tot Ion:	96	Resp:	89846
Ion	Ratio	Lower	Upper
96	100		
61	140.6	115.5	173.3
98	66.5	50.1	75.1

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#22

Diisopropyl ether

Concen: 20.105 ug/l

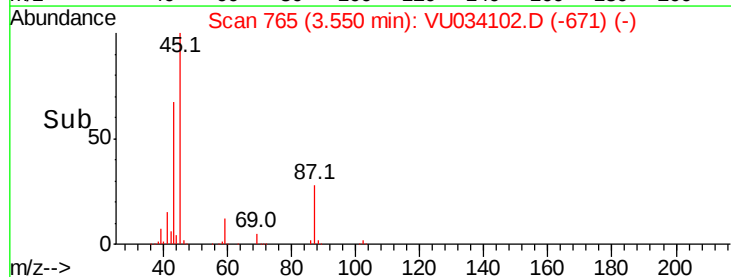
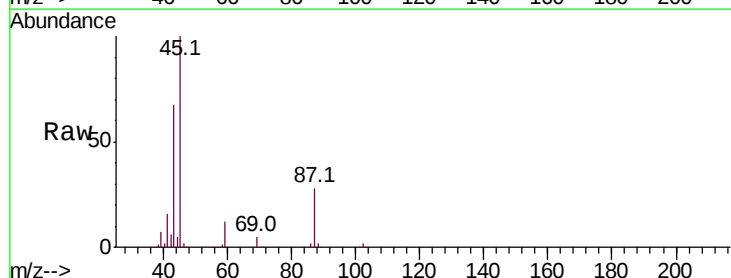
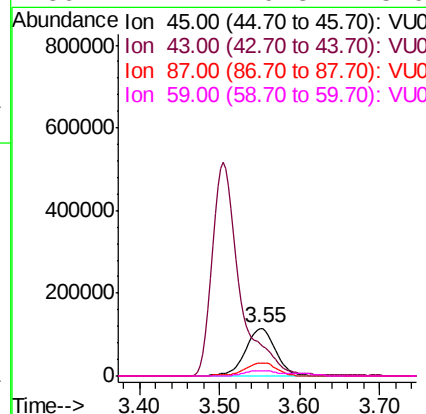
RT: 3.55 min Scan# 765

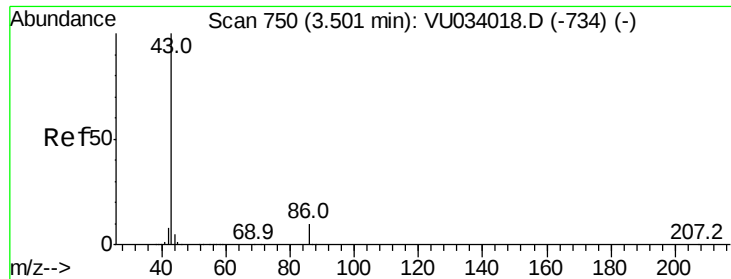
Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Tgt Ion:	45	Resp:	294428
Ion	Ratio	Lower	Upper
45	100		
43	66.6	49.7	74.5
87	27.6	21.8	32.8
59	12.1	9.3	13.9





#23

Vinyl Acetate

Concen: 98.635 ug/l

RT: 3.50 min Scan# 751

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion: 43 Resp: 1240837

Ion Ratio Lower Upper

43 100

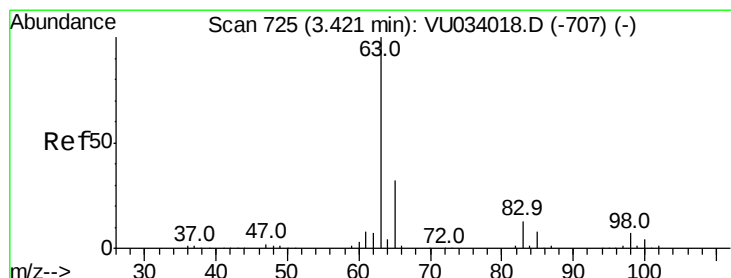
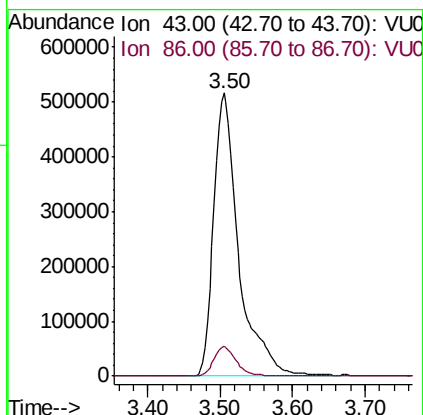
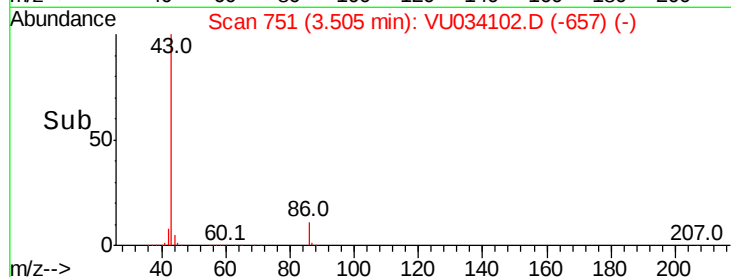
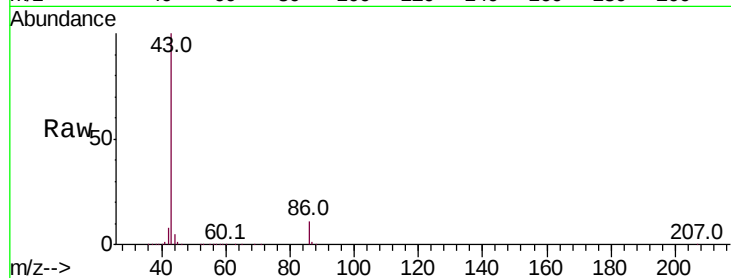
86 10.7 8.3 12.5

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#24

1,1-Dichloroethane

Concen: 19.802 ug/l

RT: 3.43 min Scan# 727

Delta R.T. 0.01 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

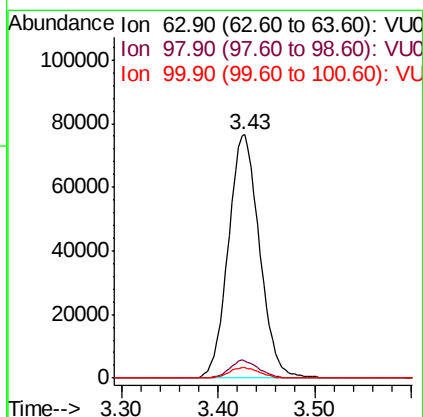
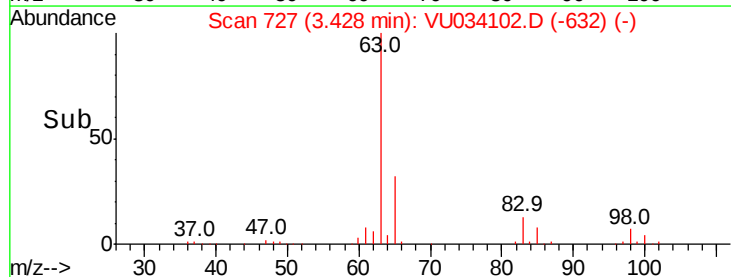
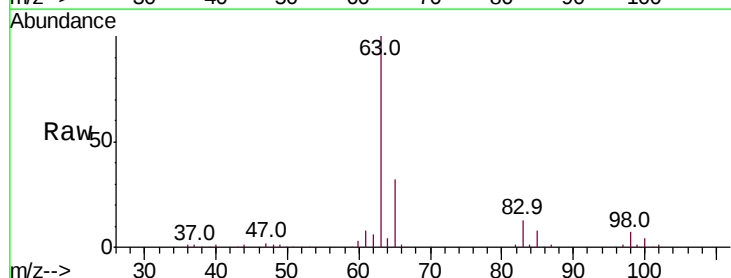
Tgt Ion: 63 Resp: 171204

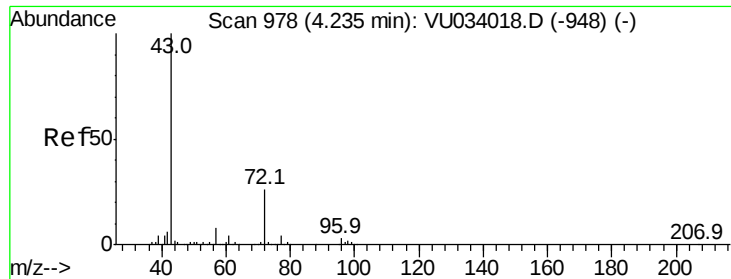
Ion Ratio Lower Upper

63 100

98 7.3 3.3 9.8

100 4.2 2.0 6.0





#25

2-Butanone

Concen: 97.041 ug/l

RT: 4.24 min Scan# 979

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion: 43 Resp: 374785

Ion Ratio Lower Upper

43 100

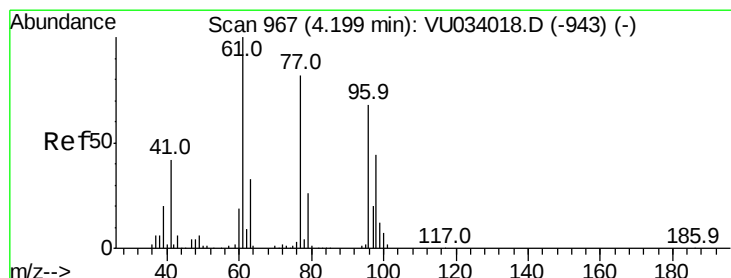
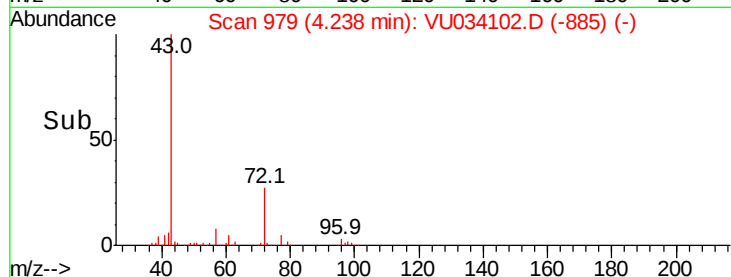
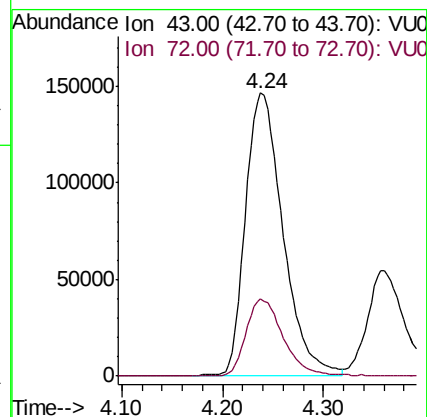
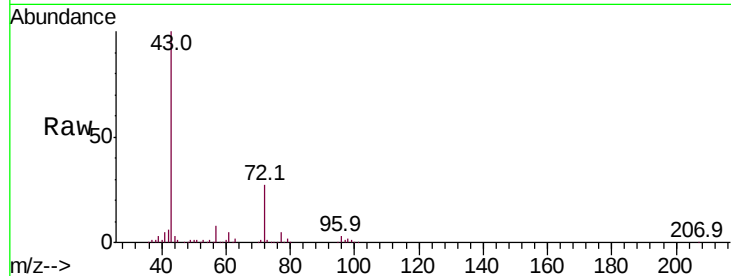
72 27.2 21.2 31.8

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 19.030 ug/l

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU034102.D

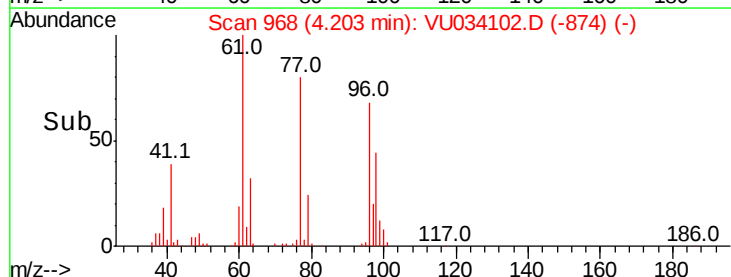
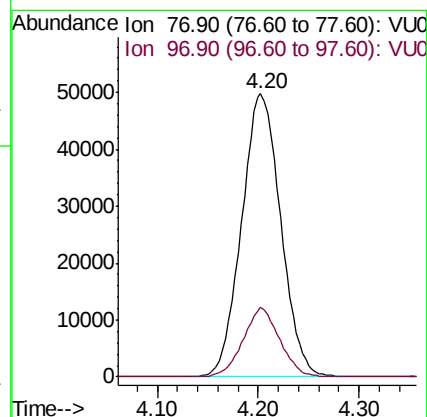
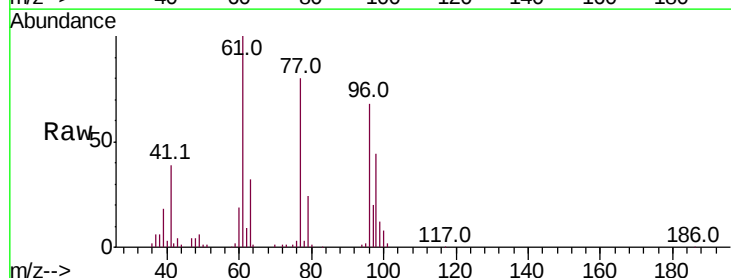
Acq: 30 Aug 2019 16:40

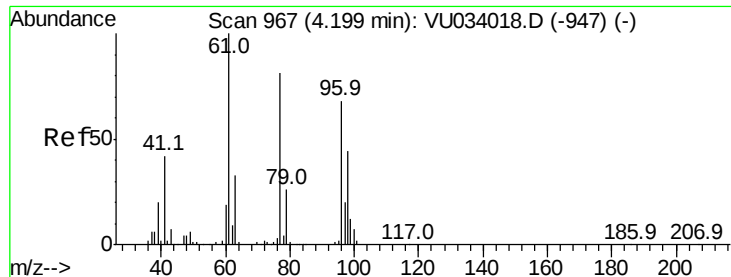
Tgt Ion: 77 Resp: 133879

Ion Ratio Lower Upper

77 100

97 22.8 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 19.934 ug/l

RT: 4.20 min Scan# 968

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

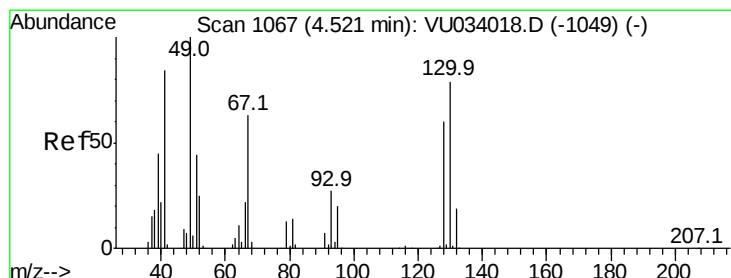
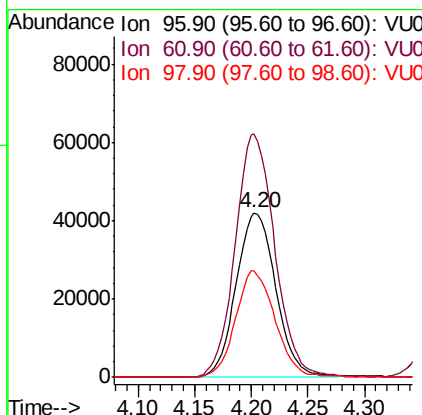
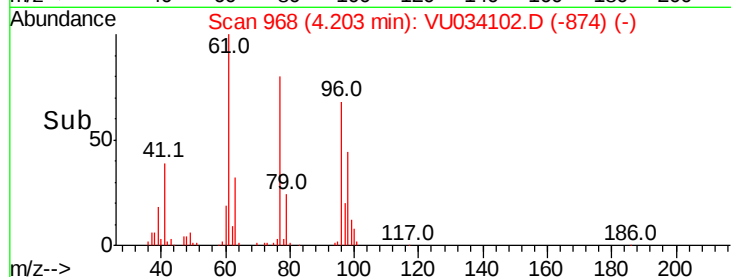
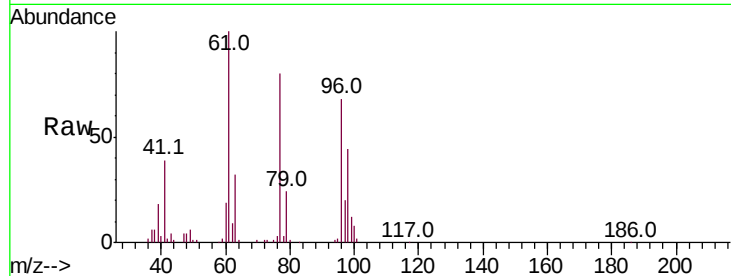
ClientSampleId :

VU0831MBS01

Tot Ion	96	Resp	103216
Ion	Ratio	Lower	Upper
96	100		
61	147.2	0.0	303.0
98	64.4	0.0	129.2

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#28

Bromochloromethane

Concen: 19.815 ug/l

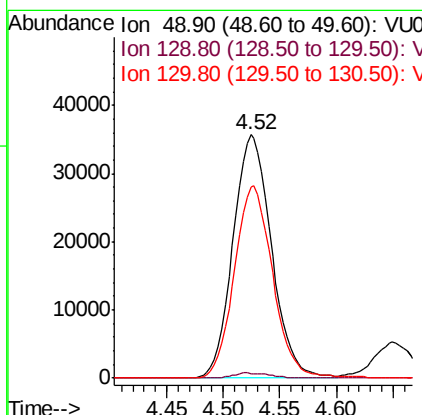
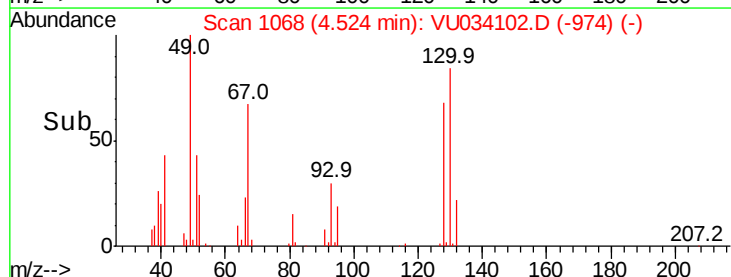
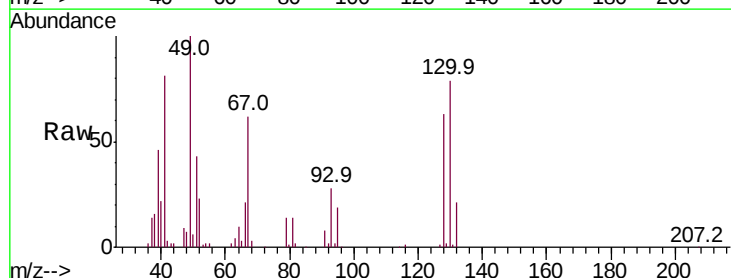
RT: 4.52 min Scan# 1068

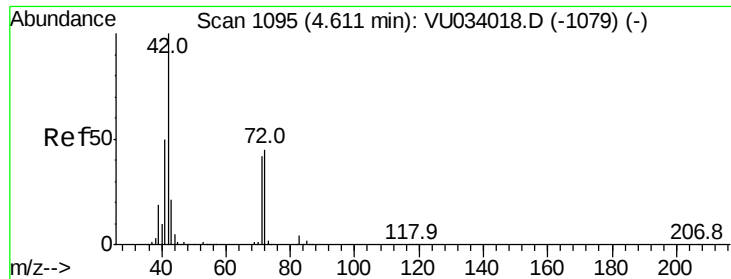
Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Tgt Ion	49	Resp	84405
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.6
130	78.7	62.8	94.2





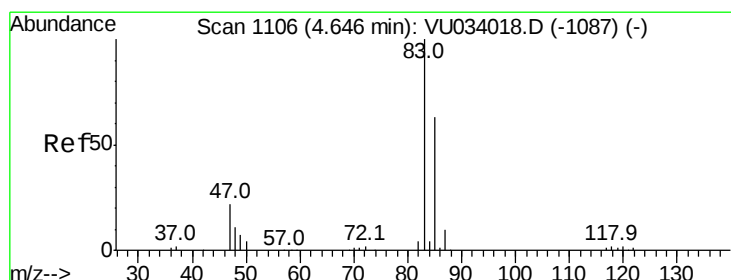
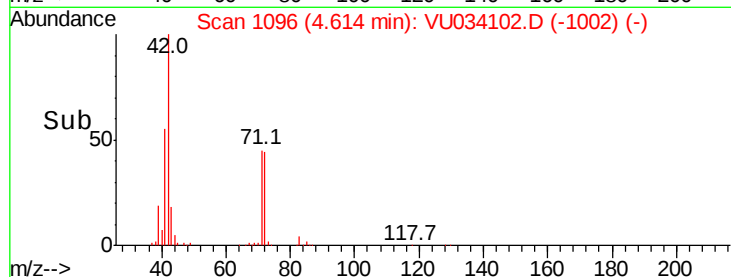
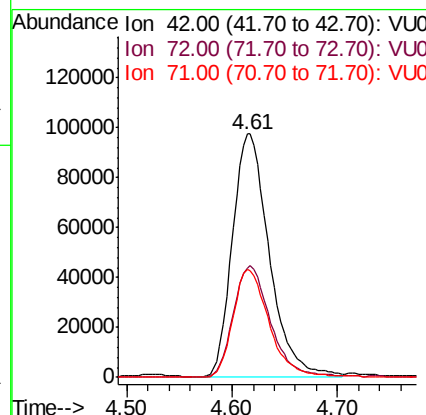
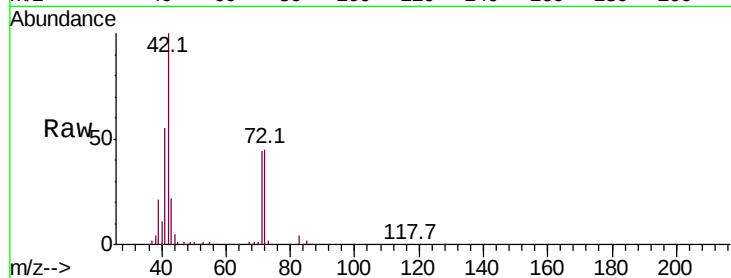
#29
Tetrahydrofuran
Concen: 99.099 ug/l
RT: 4.61 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.7	35.8	53.6
71	43.9	34.0	51.0

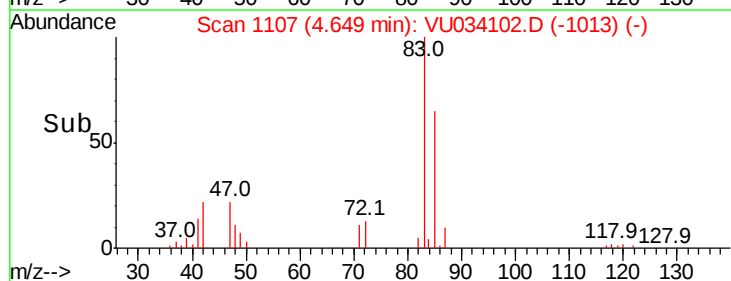
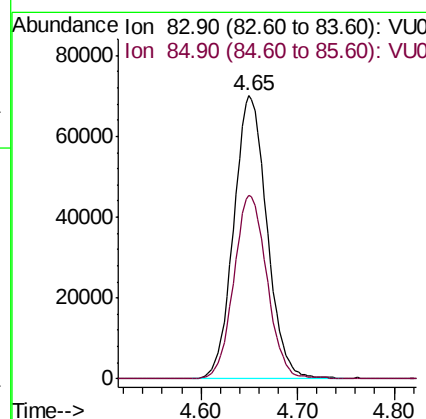
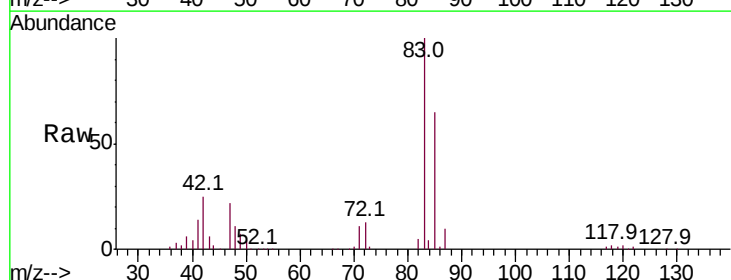
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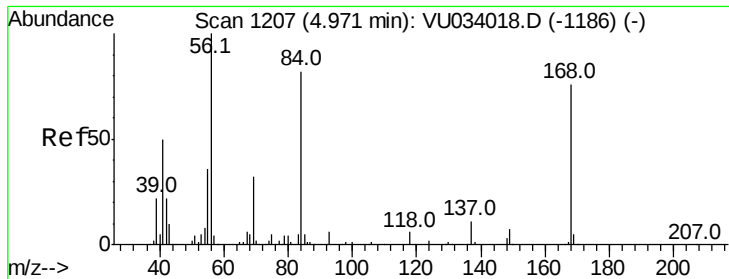
MMDadoda
8/31/2019 11:24:53 AM



#30
Chloroform
Concen: 19.389 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.7	76.1





#31

Cyclohexane

Concen: 18.171 ug/l

RT: 4.97 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion: 56 Resp: 147625

Ion Ratio Lower Upper

56 100

69 37.0 25.4 38.0

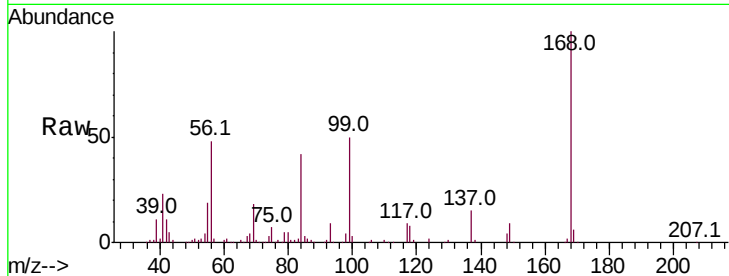
84 85.9 65.8 98.8

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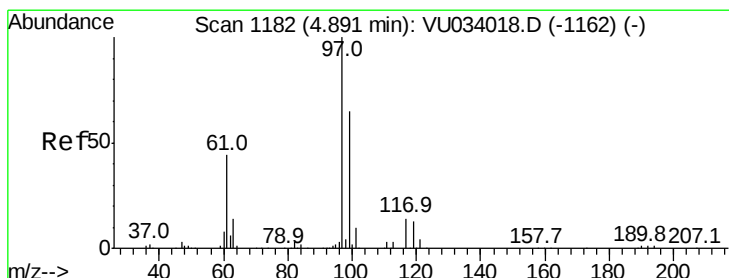
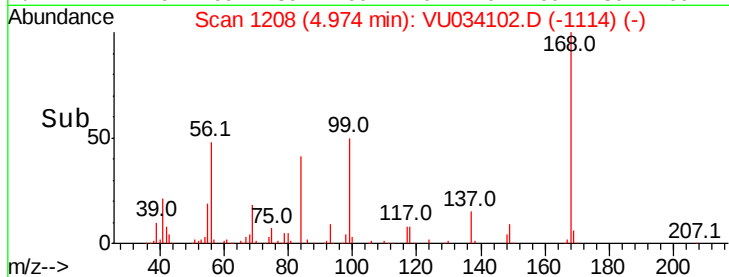
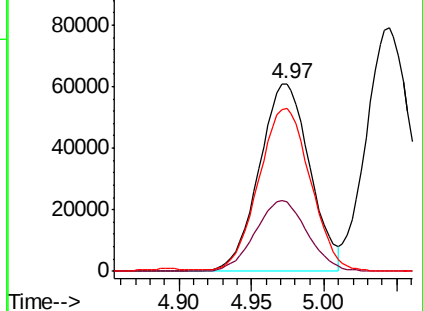
8/31/2019 11:24:53 AM



Abundance Ion 56.00 (55.70 to 56.70): VU034102.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034102.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034102.D (-1186) (-)



#32

1,1,1-Trichloroethane

Concen: 19.579 ug/l

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

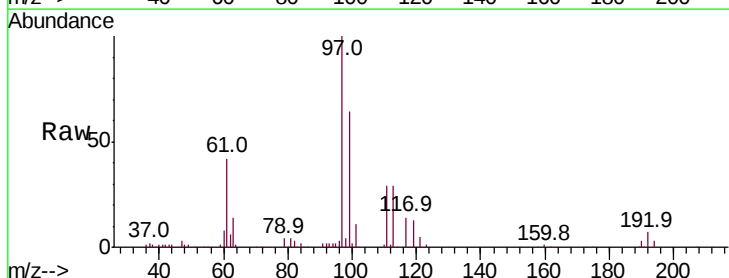
Tgt Ion: 97 Resp: 138326

Ion Ratio Lower Upper

97 100

99 64.7 51.8 77.6

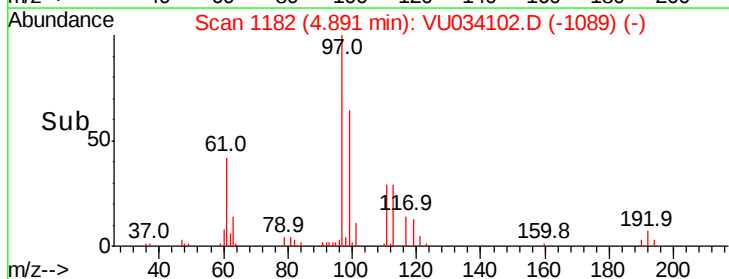
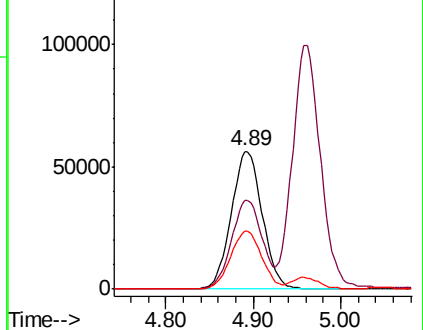
61 42.3 35.3 52.9

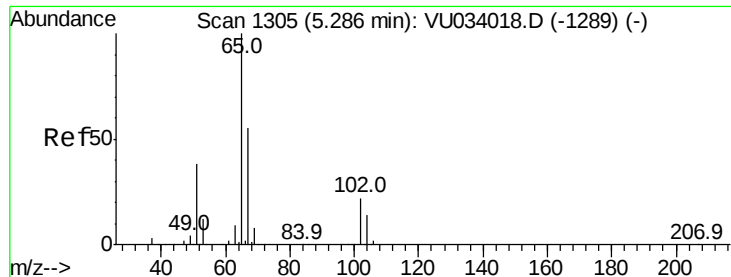


Abundance Ion 96.90 (96.60 to 97.60): VU034102.D (-1162) (-)

Ion 98.90 (98.60 to 99.60): VU034102.D (-1162) (-)

Ion 60.90 (60.60 to 61.60): VU034102.D (-1162) (-)





#33

1,2-Dichloroethane-d4

Concen: 49.539 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion: 65 Resp: 269516

Ion Ratio Lower Upper

65 100

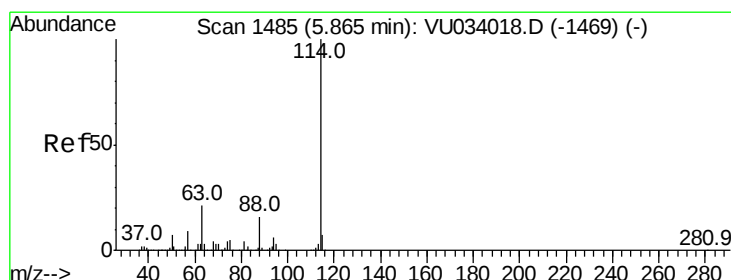
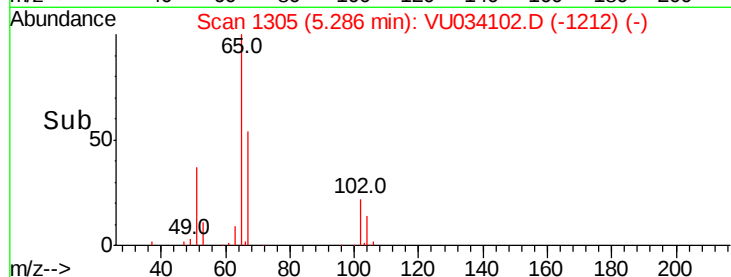
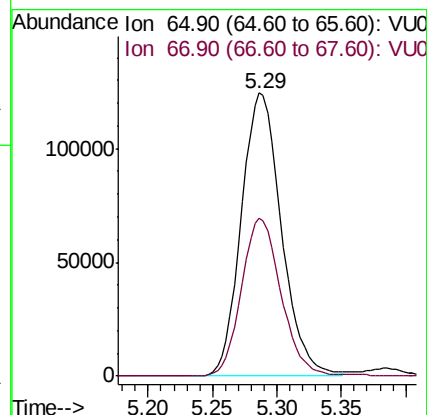
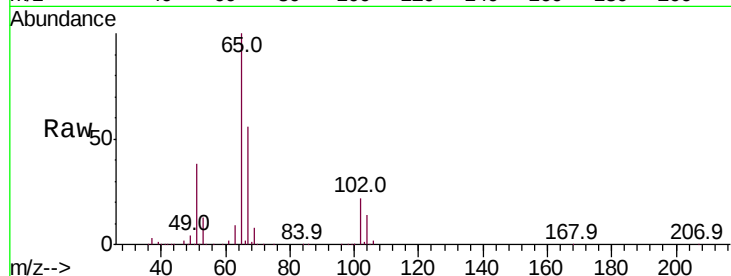
67 54.9 0.0 110.6

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

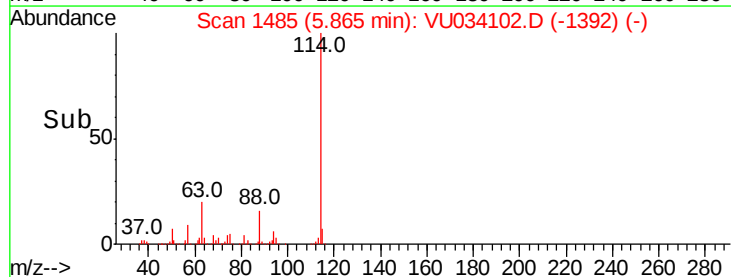
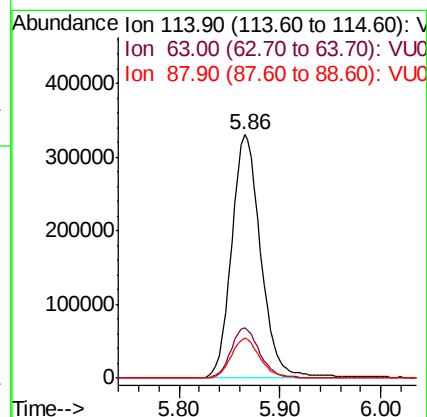
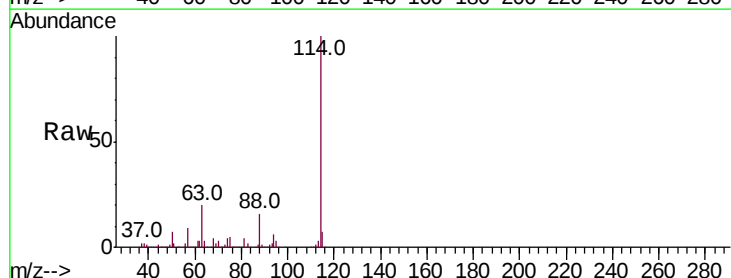
Tgt Ion: 114 Resp: 667291

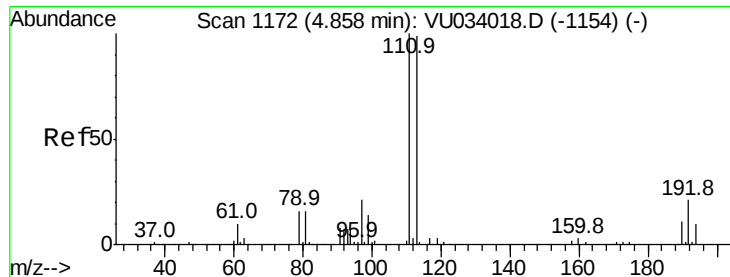
Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.0

88 16.2 0.0 32.0





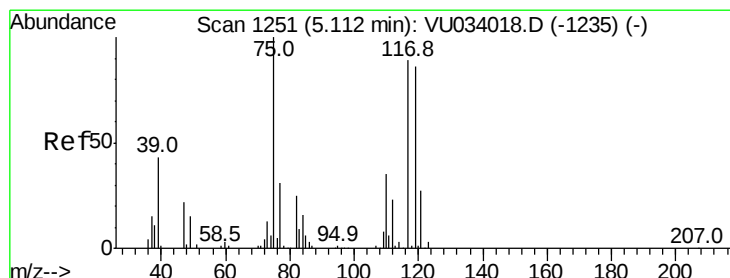
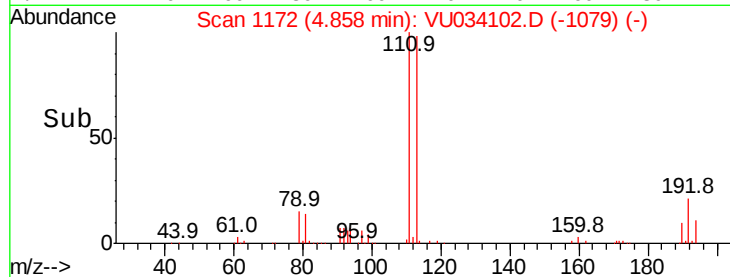
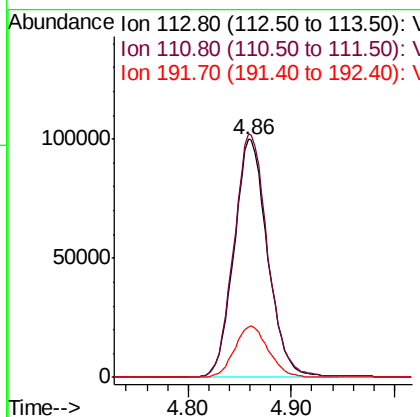
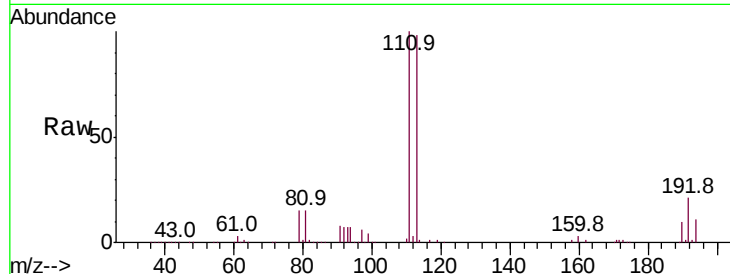
#35
 Dibromofluoromethane
 Concen: 48.919 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU034102.D
 Acq: 30 Aug 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	226409		
111	102.8	81.7	122.5	
192	21.9	17.1	25.7	

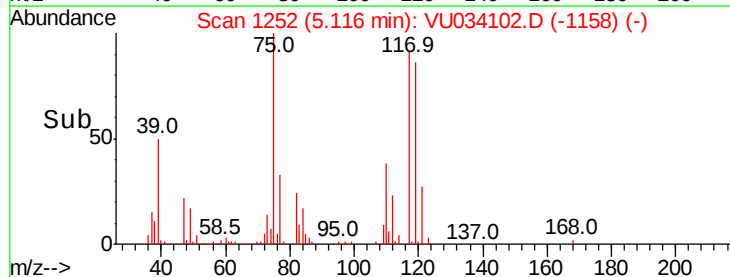
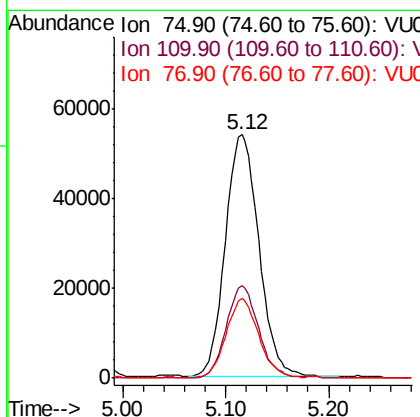
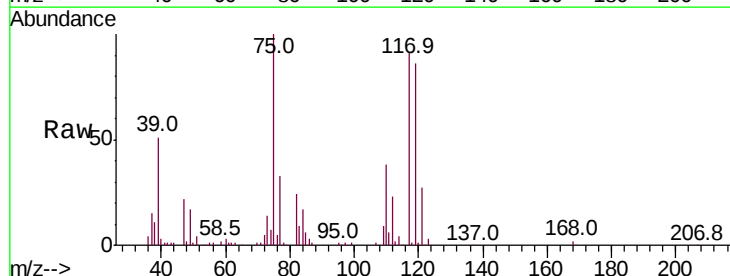
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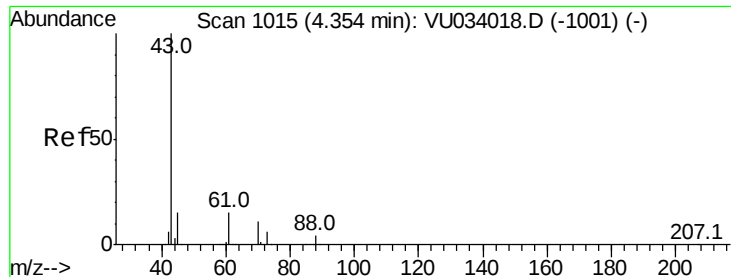
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 19.447 ug/l
 RT: 5.12 min Scan# 1252
 Delta R.T. 0.00 min
 Lab File: VU034102.D
 Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	122744		
110	36.7	17.8	53.5	
77	31.3	25.0	37.4	





#37

Ethyl Acetate

Concen: 19.782 ug/l

RT: 4.36 min Scan# 1016

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

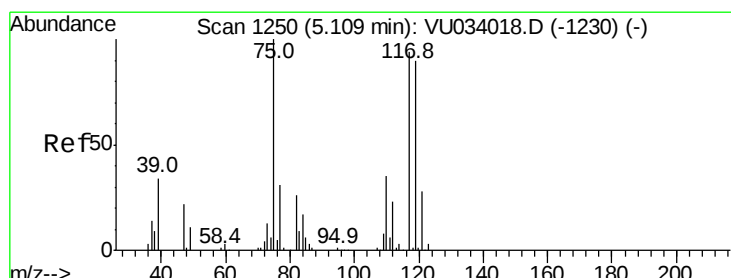
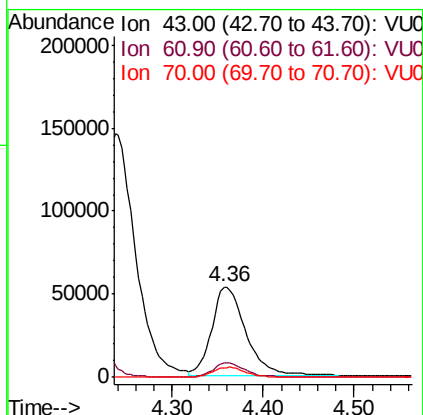
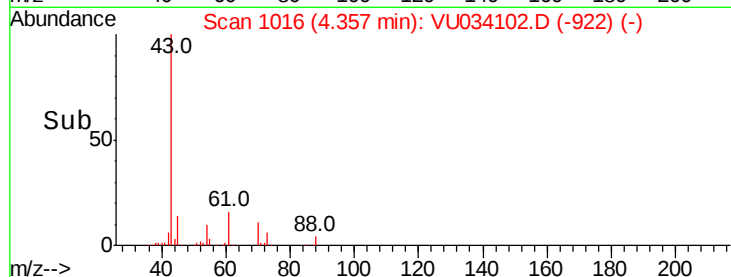
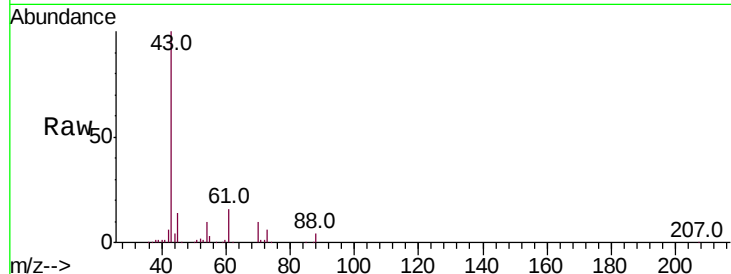
Instrument :
MSVOA_U

ClientSampleId :
VU0831MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.5	17.3
70	11.0	8.6	12.8

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 19.159 ug/l

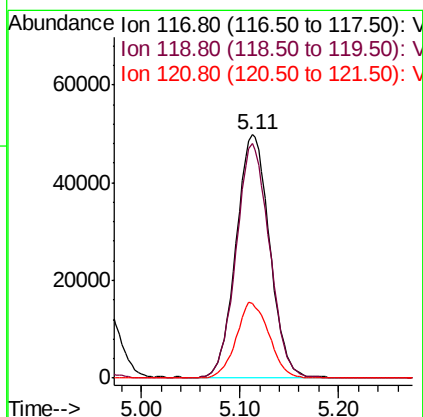
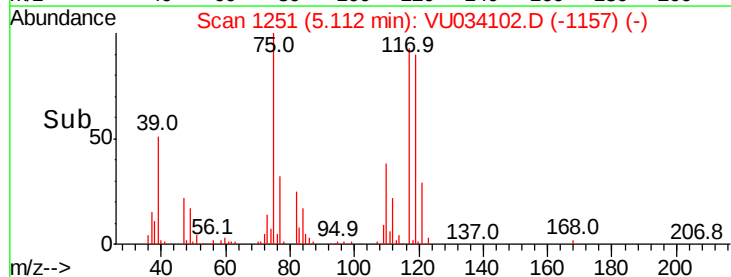
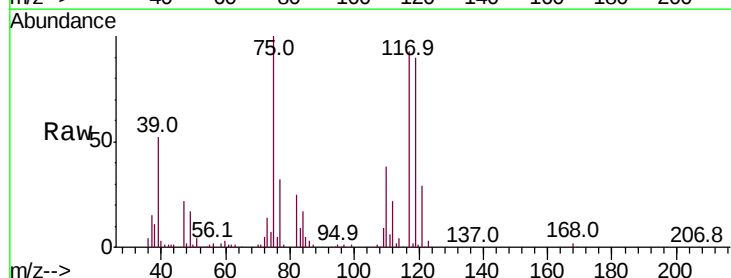
RT: 5.11 min Scan# 1251

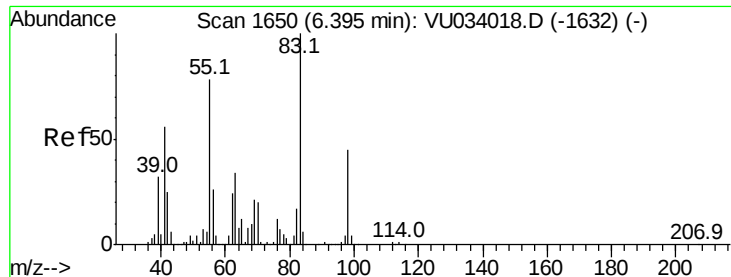
Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.0	115.4
121	31.0	23.9	35.9





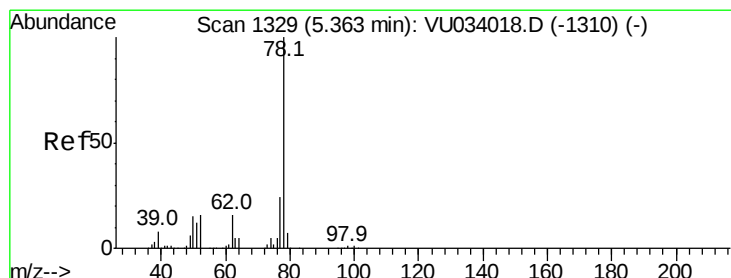
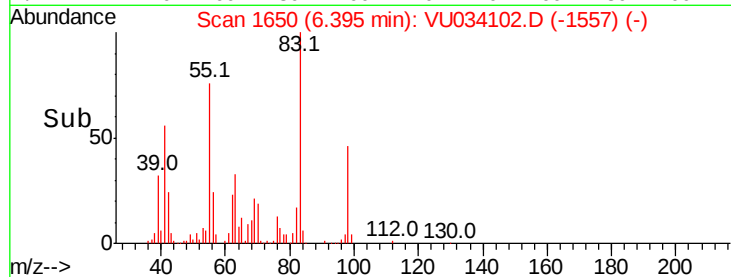
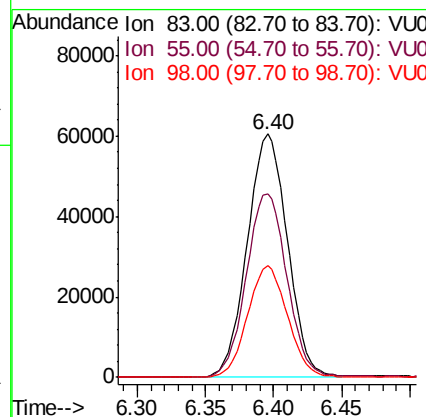
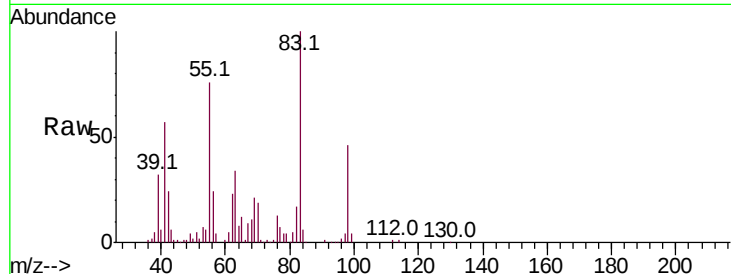
#39
Methvlcvclohexane
Concen: 16.695 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.6	62.3	93.5
98	46.0	36.2	54.2

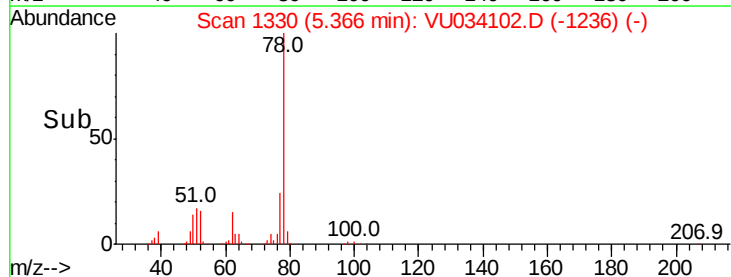
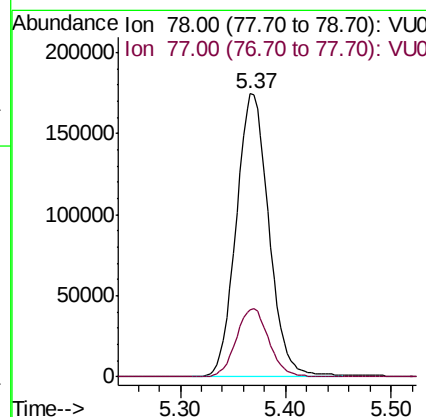
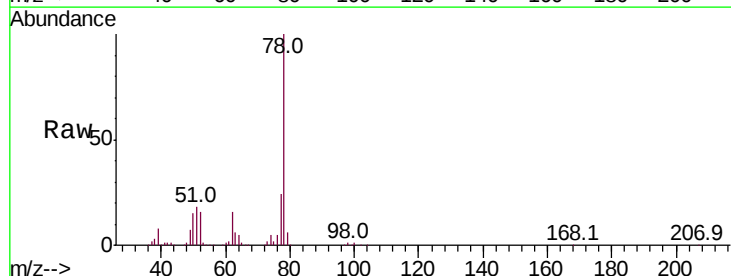
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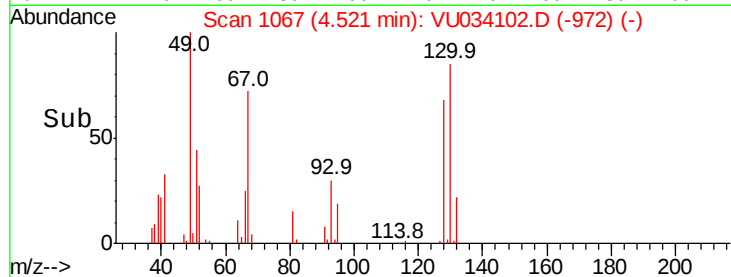
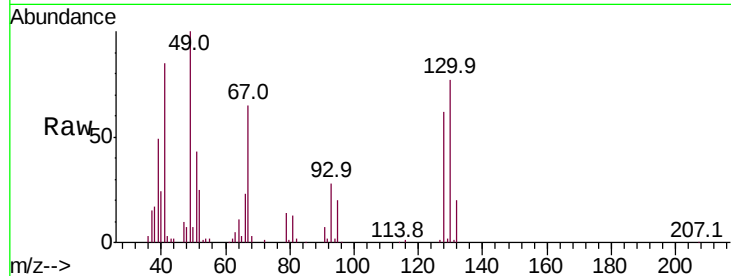
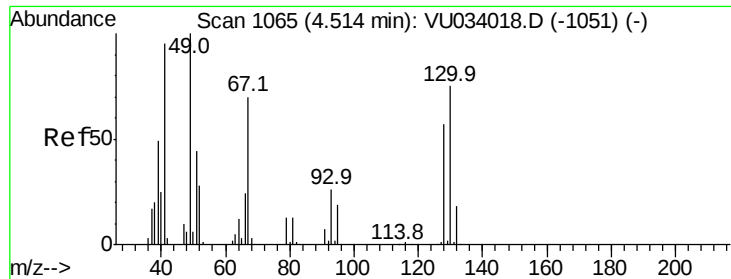
MMDadoda
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#40
Benzene
Concen: 19.725 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.6





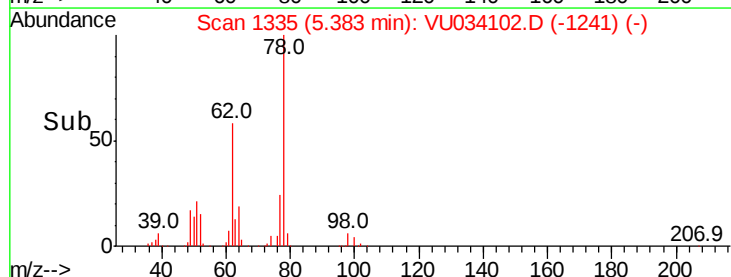
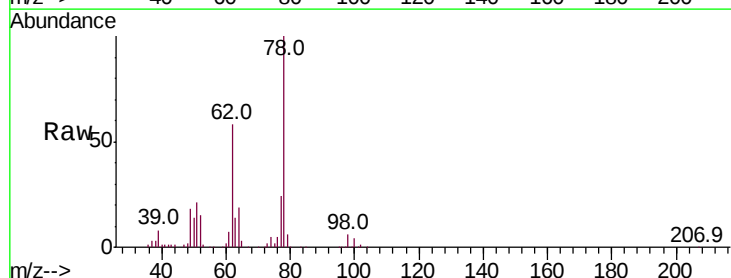
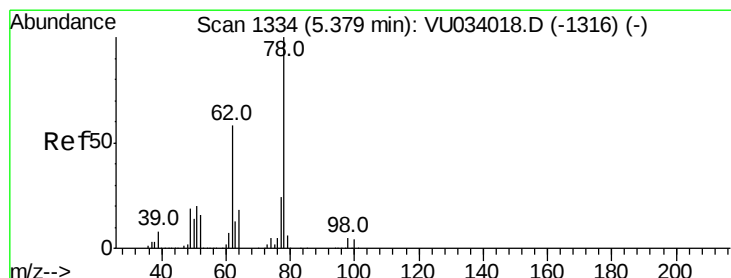
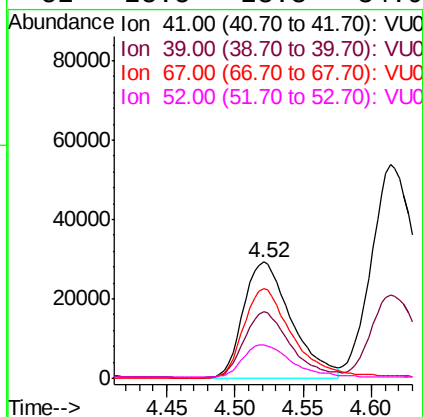
#41
Methacrylonitrile
Concen: 19.887 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. 0.01 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tot Ion	Ratio	Lower	Upper
41	100		
39	54.9	42.1	63.1
67	80.2	61.0	91.4
52	28.5	23.3	34.9

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

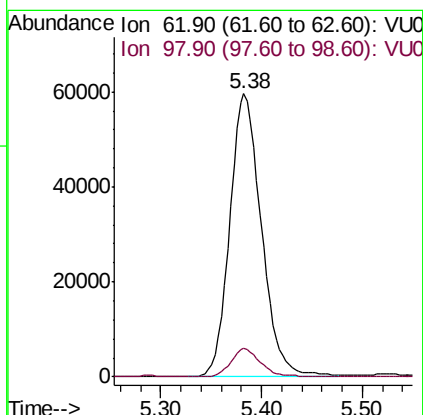
Manual Integrations
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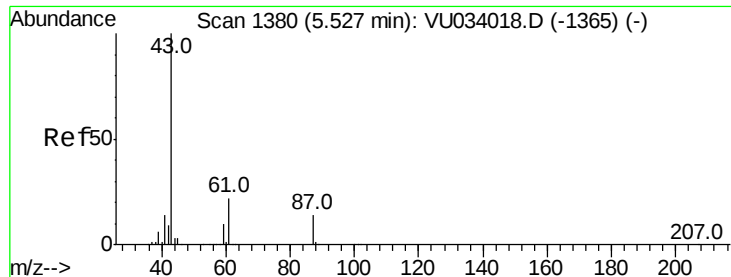
MMDadoda
8/31/2019 11:24:53 AM



#42
1,2-Dichloroethane
Concen: 19.755 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.2





#43

Isopropyl Acetate

Concen: 19.709 ug/l

RT: 5.53 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

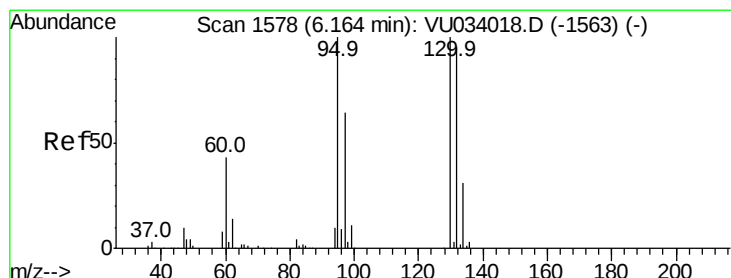
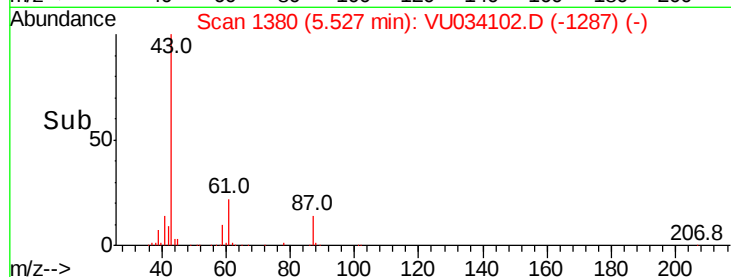
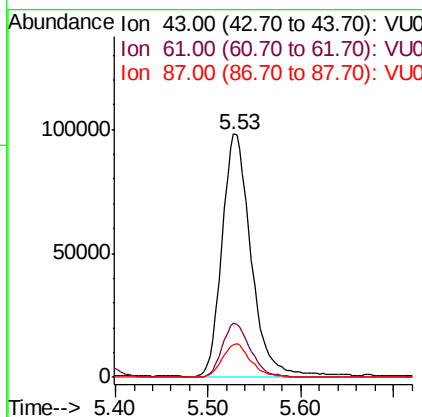
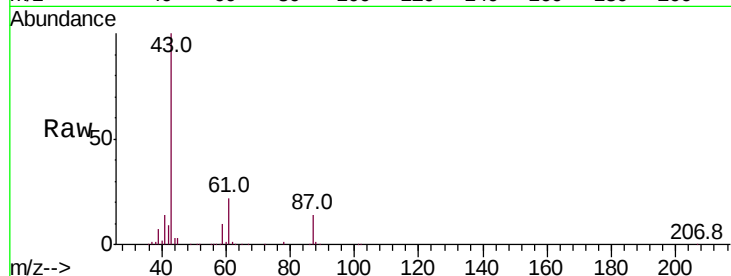
ClientSampleId :

VU0831MBS01

Tot Ion:	43	Resp:	211925
Ion	Ratio	Lower	Upper
43	100		
61	21.9	17.2	25.8
87	13.7	10.8	16.2

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#44

Trichloroethene

Concen: 20.068 ug/l

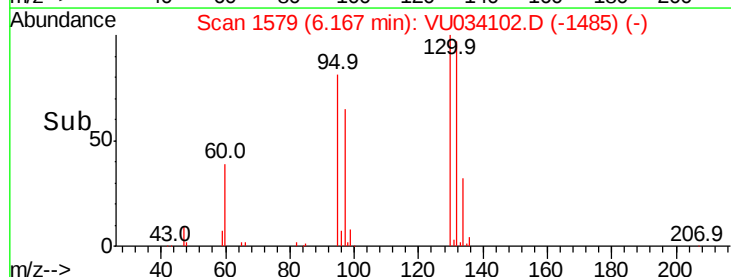
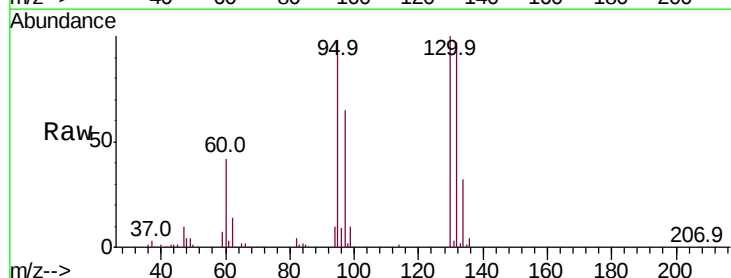
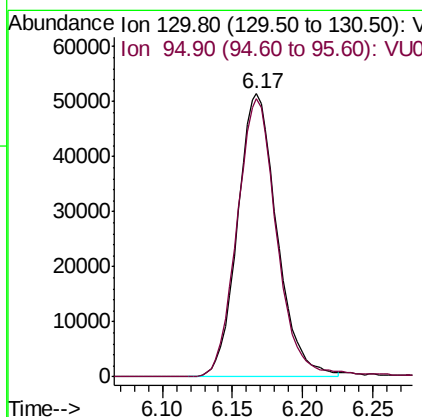
RT: 6.17 min Scan# 1579

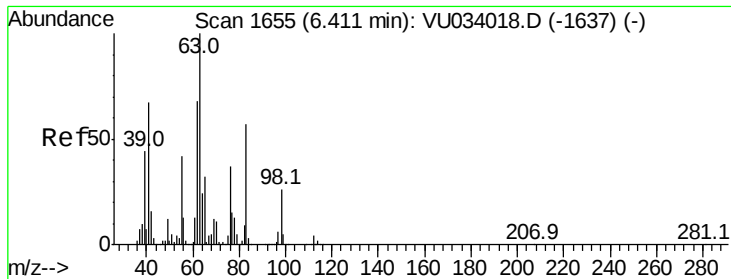
Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Tgt Ion:	130	Resp:	100634
Ion	Ratio	Lower	Upper
130	100		
95	98.2	0.0	199.6





#45

1,2-Dichloropropane

Concen: 20.034 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion: 63 Resp: 105312

Ion Ratio Lower Upper

63 100

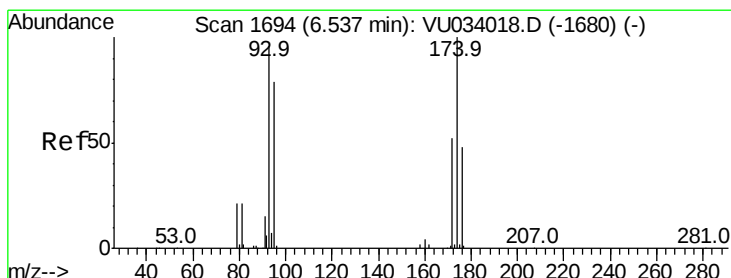
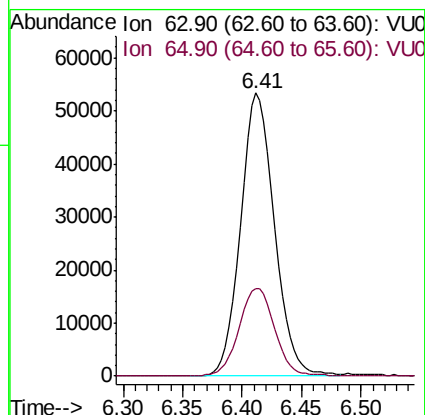
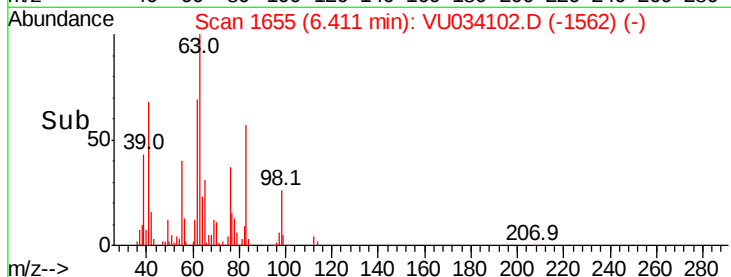
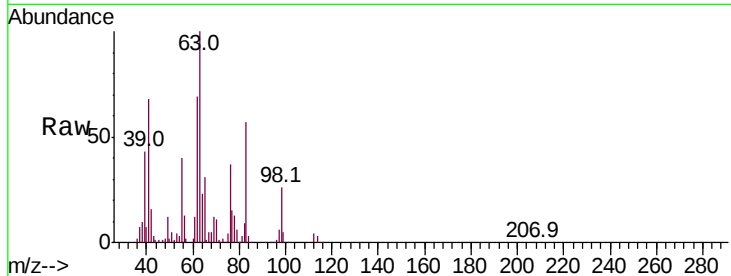
65 31.1 25.4 38.2

Manual Integrations

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#46

Dibromomethane

Concen: 20.153 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

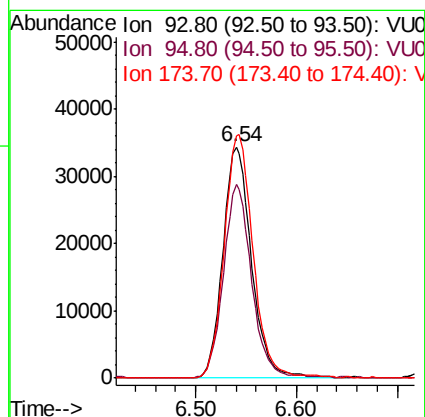
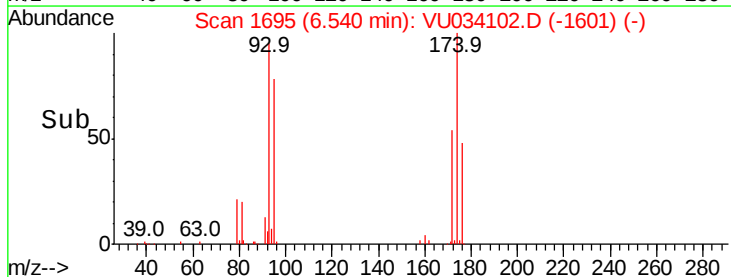
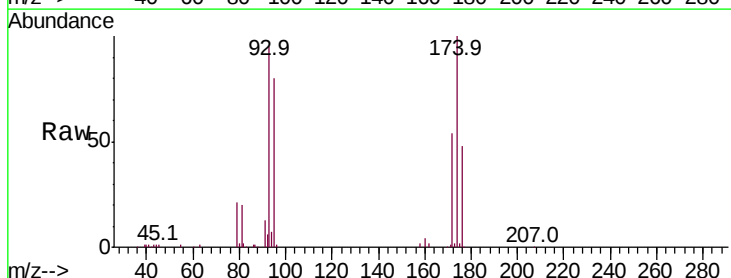
Tgt Ion: 93 Resp: 68254

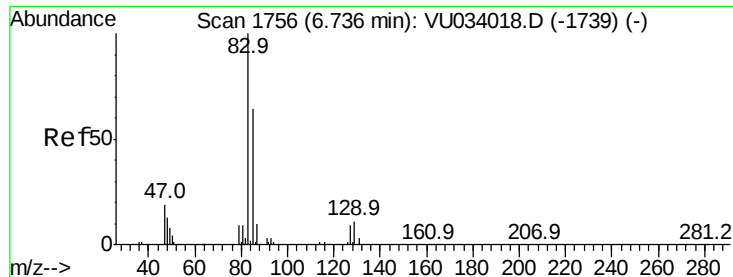
Ion Ratio Lower Upper

93 100

95 81.6 66.7 100.1

174 106.2 84.9 127.3





#47

Bromodichloromethane

Concen: 19.484 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

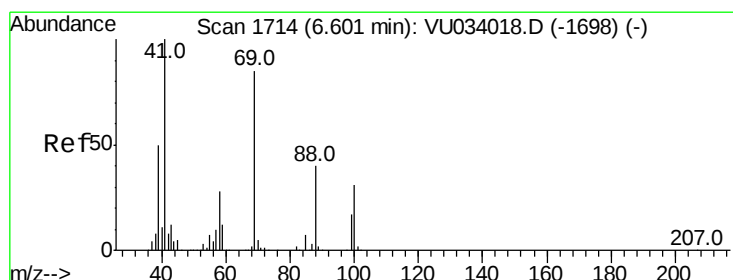
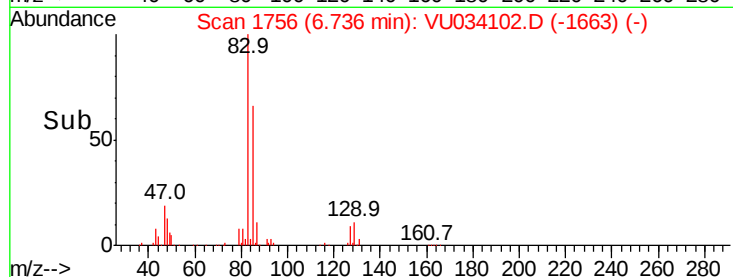
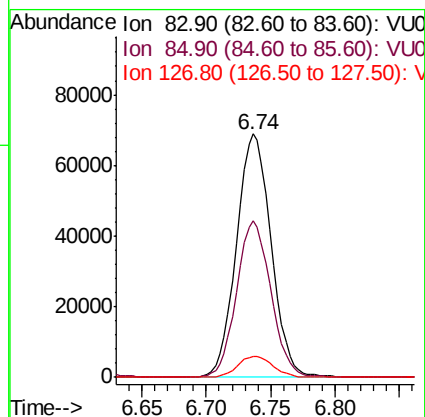
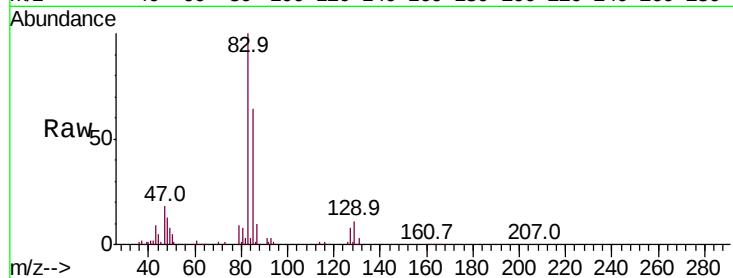
ClientSampleId :

VU0831MBS01

Tot Ion:	83	Resp:	129102
Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.2	76.8
127	8.5	7.0	10.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.496 ug/l

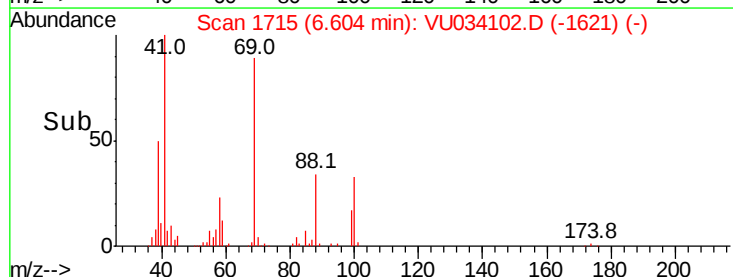
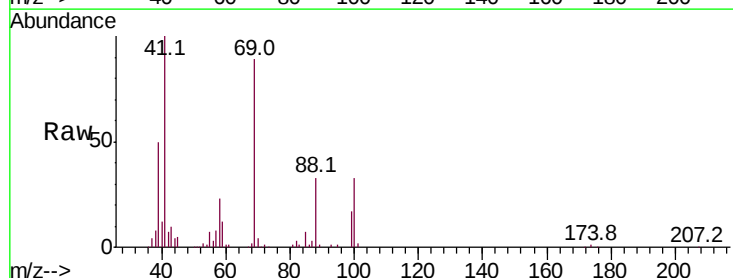
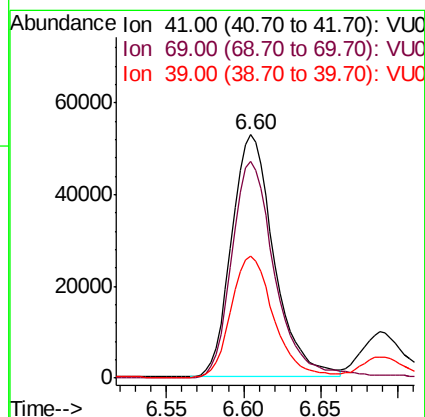
RT: 6.60 min Scan# 1715

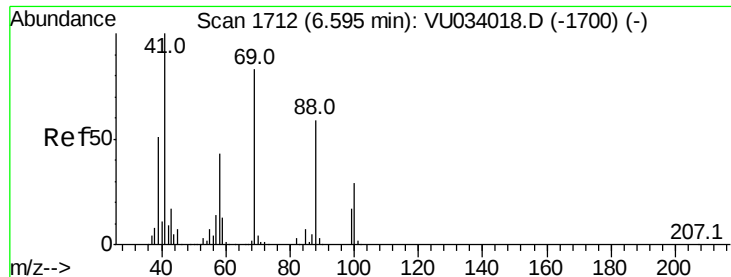
Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Tgt Ion:	41	Resp:	101160
Ion	Ratio	Lower	Upper
41	100		
69	91.9	69.5	104.3
39	49.9	40.3	60.5





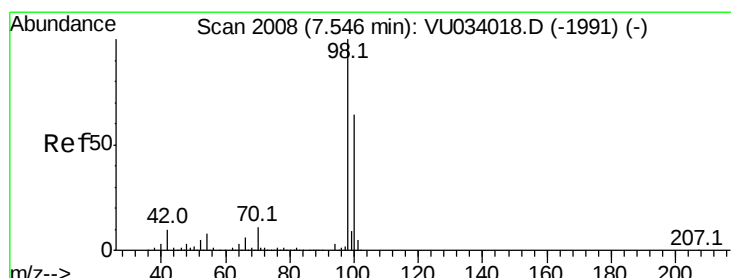
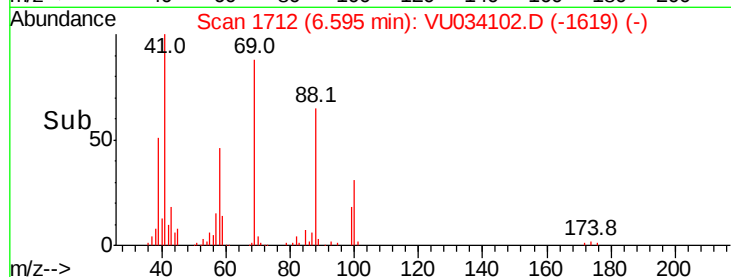
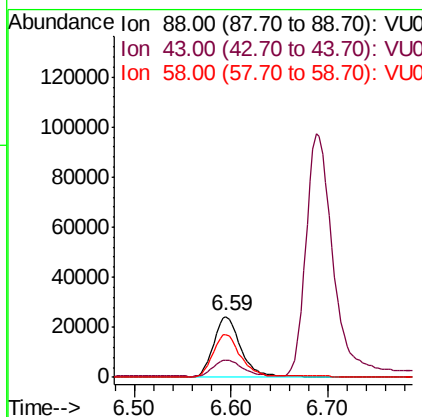
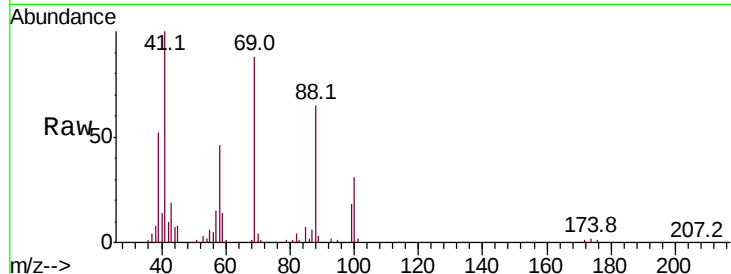
#49
1,4-Dioxane
Concen: 363.867 ug/l
RT: 6.59 min Scan# 1712
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	28.5	24.8	37.2
58	72.6	59.3	88.9

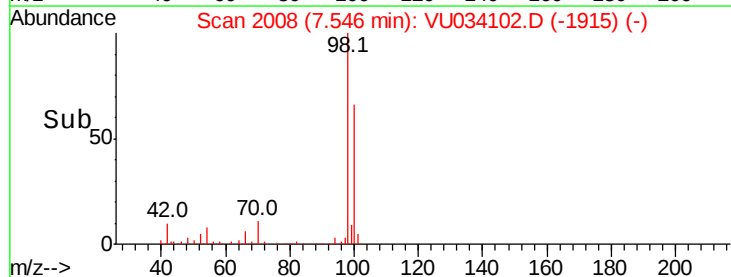
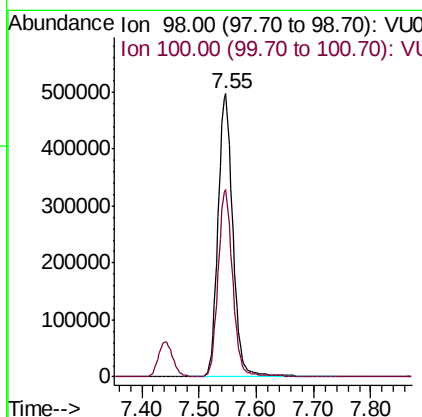
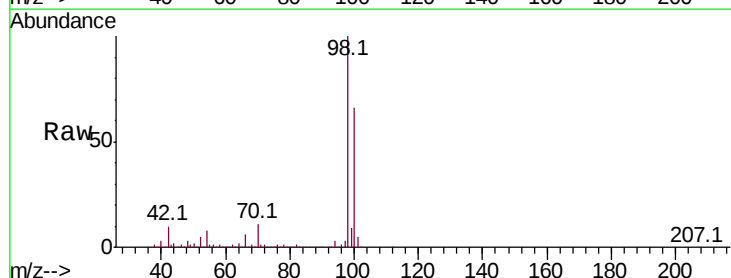
Manual Integrations
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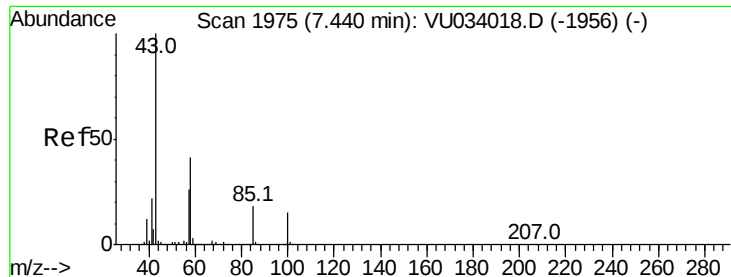
MMDadoda
8/31/2019 11:24:53 AM



#50
Toluene-d8
Concen: 51.878 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	50.3	75.5





#51

4-Methyl-2-Pentanone

Concen: 97.430 ug/l

RT: 7.44 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion: 43 Resp: 723516

Ion Ratio Lower Upper

43 100

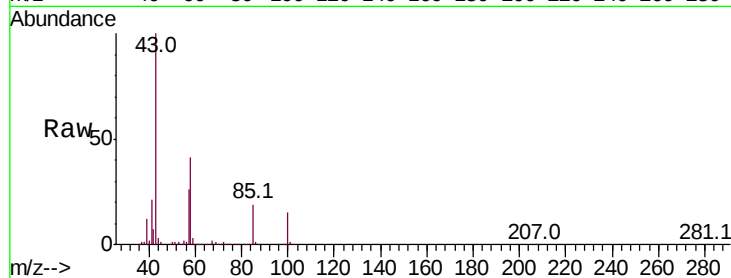
58 41.0 32.2 48.4

Manual Integrations

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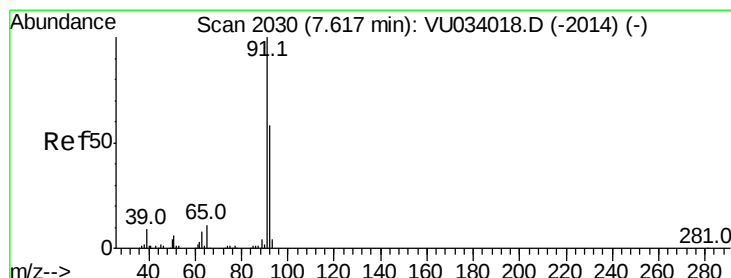
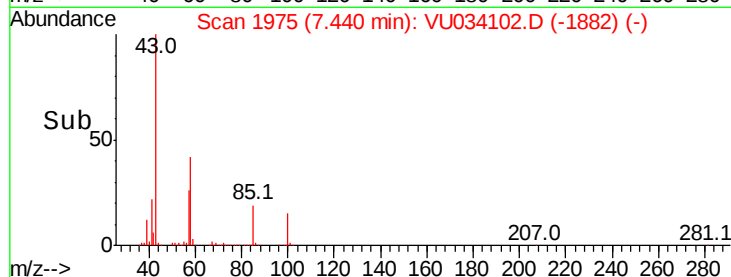
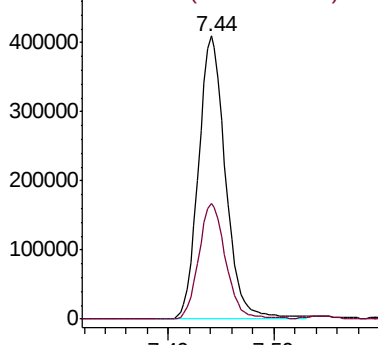
MMDadoda

8/31/2019 11:24:53 AM



Abundance Ion 43.00 (42.70 to 43.70): VU034102.D (-1956) (-)

Ion 58.00 (57.70 to 58.70): VU034102.D (-1956) (-)



#52

Toluene

Concen: 20.723 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034102.D

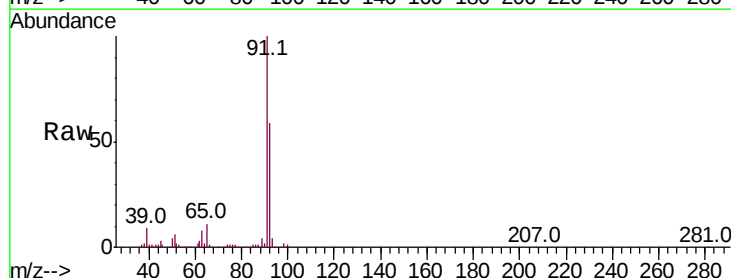
Acq: 30 Aug 2019 16:40

Tgt Ion: 92 Resp: 243783

Ion Ratio Lower Upper

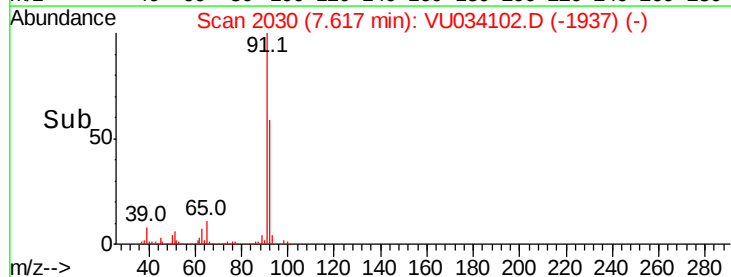
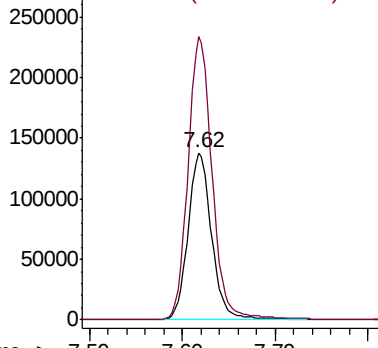
92 100

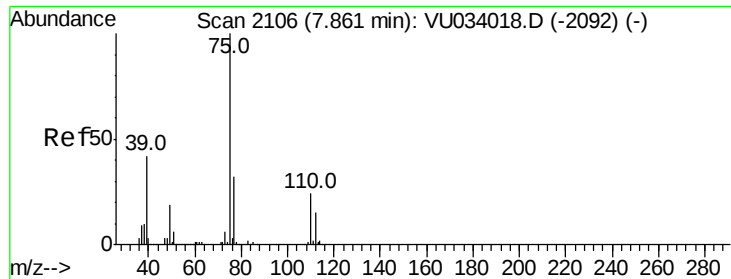
91 173.7 138.3 207.5



Abundance Ion 92.00 (91.70 to 92.70): VU034102.D (-1937) (-)

Ion 91.00 (90.70 to 91.70): VU034102.D (-1937) (-)





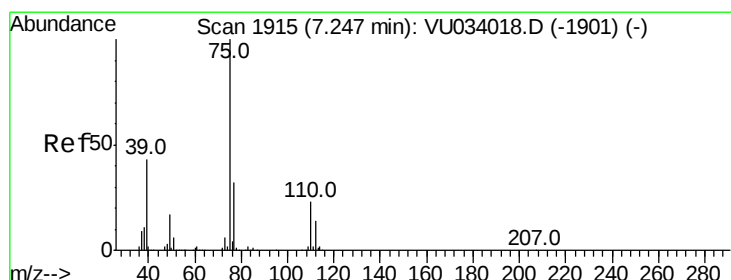
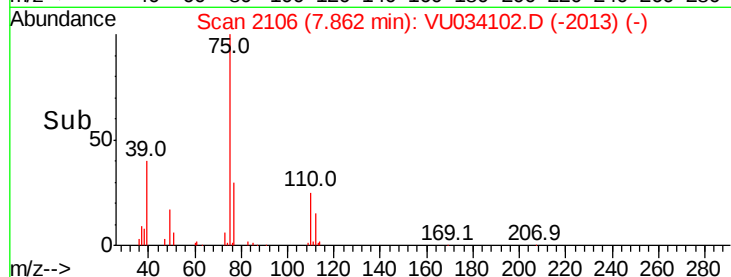
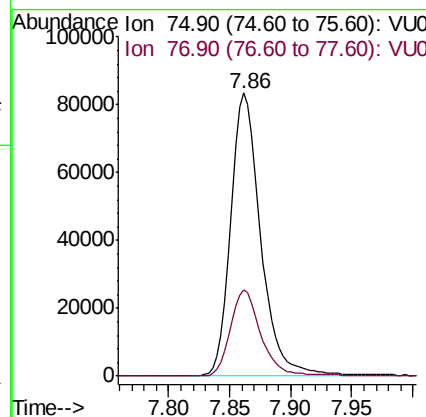
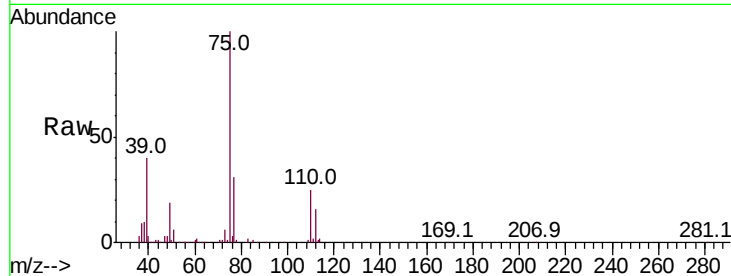
#53
 t-1,3-Dichloropropene
 Concen: 19.542 ug/l
 RT: 7.86 min Scan# 2106
 Delta R.T. 0.00 min
 Lab File: VU034102.D
 Acq: 30 Aug 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBS01

Tot Ion	75	Resp	143678
Ion Ratio	Lower	Upper	
75	100		
77	30.5	25.4	38.0

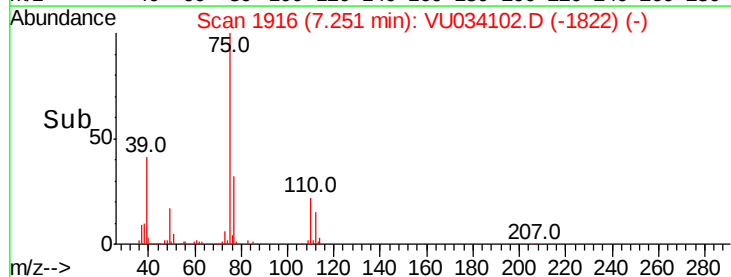
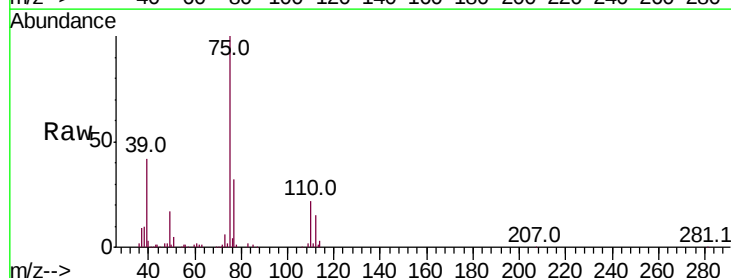
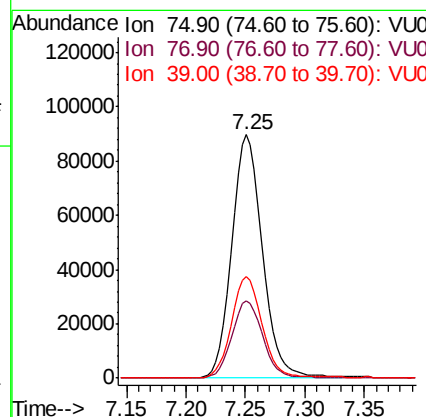
Manual Integrations
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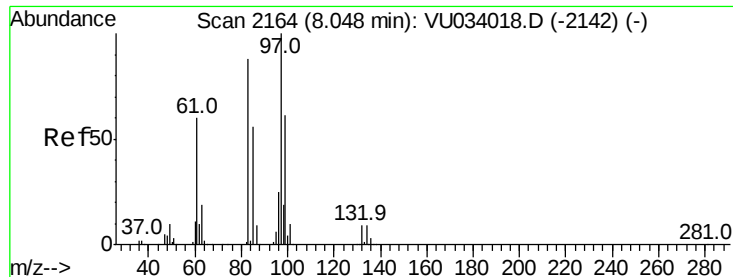
MMDadoda
 8/31/2019 11:24:53 AM



#54
 cis-1,3-Dichloropropene
 Concen: 19.987 ug/l
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU034102.D
 Acq: 30 Aug 2019 16:40

Tgt Ion	75	Resp	160540
Ion Ratio	Lower	Upper	
75	100		
77	31.9	25.2	37.8
39	41.3	34.6	51.8





#55

1,1,2-Trichloroethane

Concen: 20.562 ug/l

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

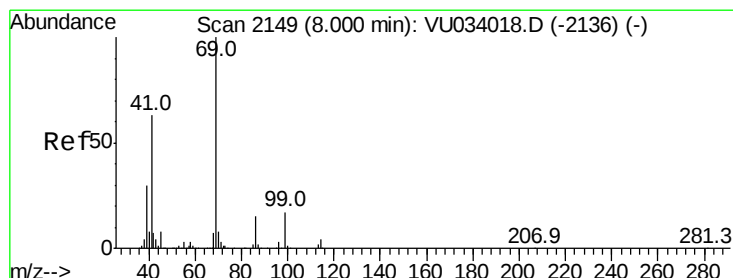
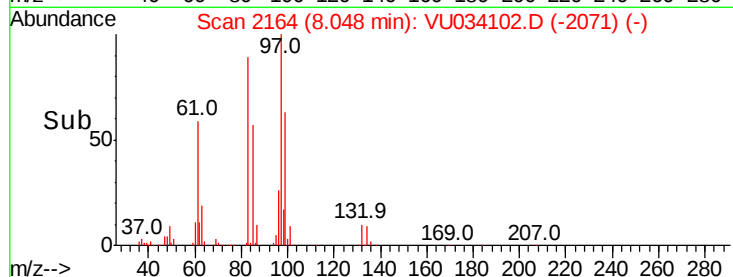
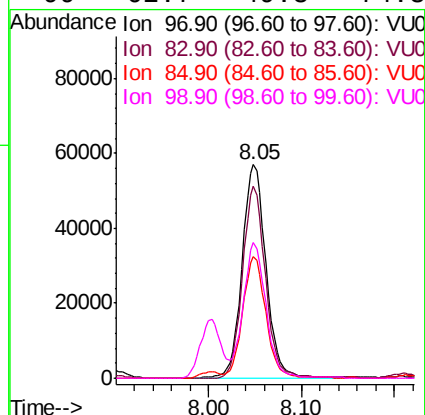
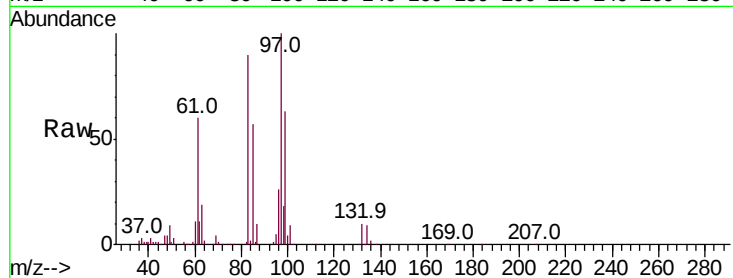
ClientSampleId :

VU0831MBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	90.0	70.1	105.1
85	56.9	45.0	67.4
99	62.7	49.8	74.8

Manual Integrations
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8/31/2019 11:24:53 AM



#56

Ethyl methacrylate

Concen: 18.351 ug/l

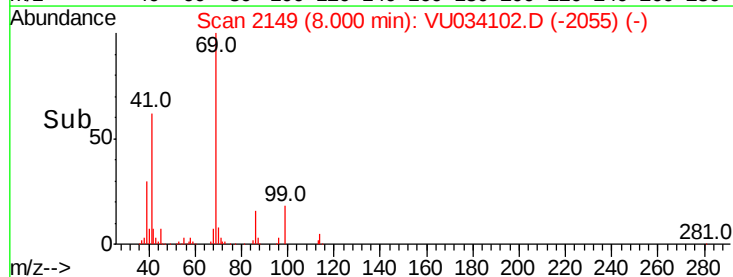
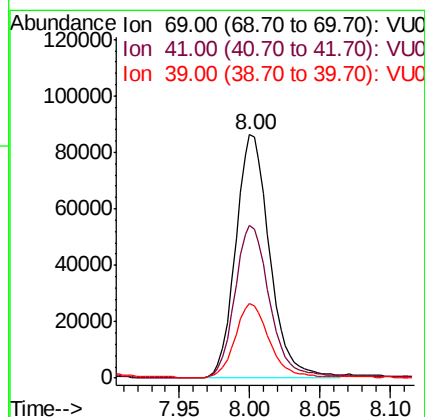
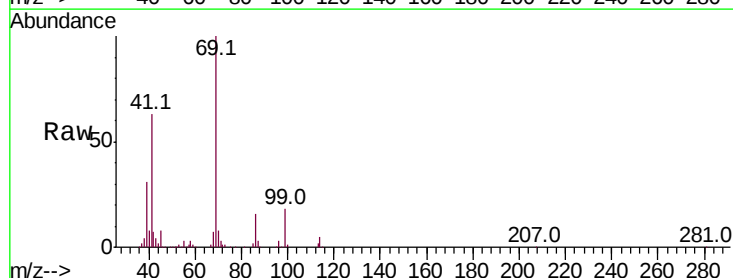
RT: 8.00 min Scan# 2149

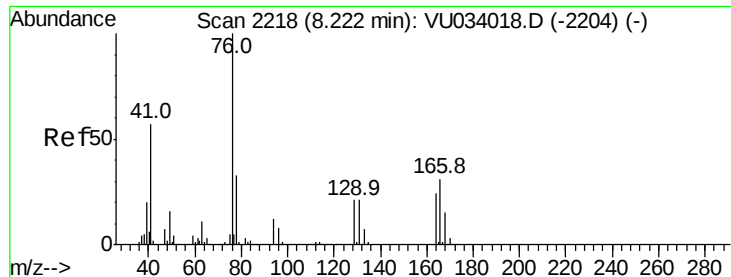
Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
69	100		
41	64.7	50.7	76.1
39	30.1	24.2	36.2





#57

1,3-Dichloropropane

Concen: 20.123 ug/l

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion: 76 Resp: 170017

Ion Ratio Lower Upper

76 100

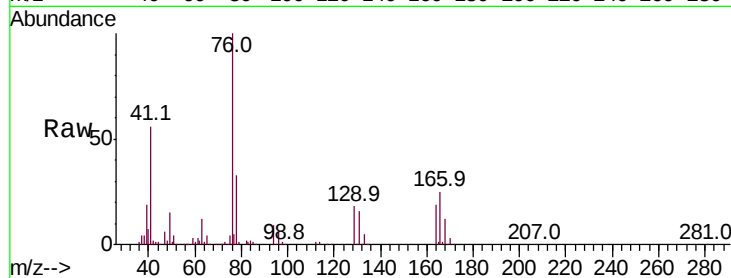
78 32.4 26.2 39.4

Manual Integrations

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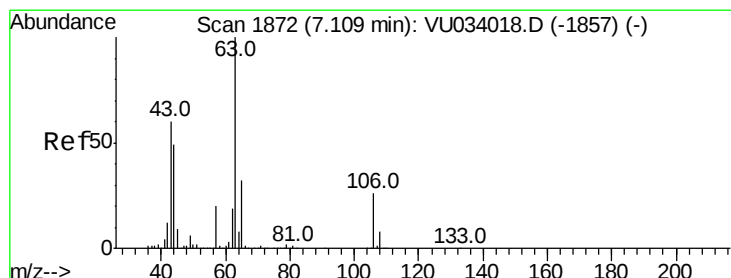
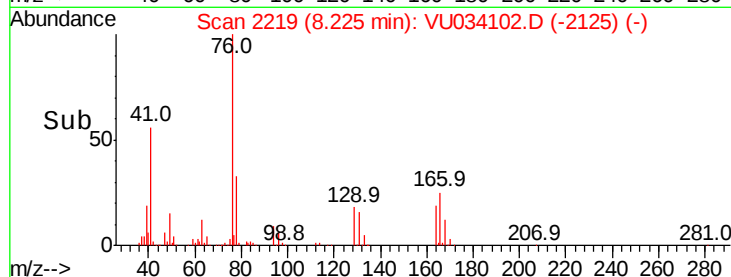
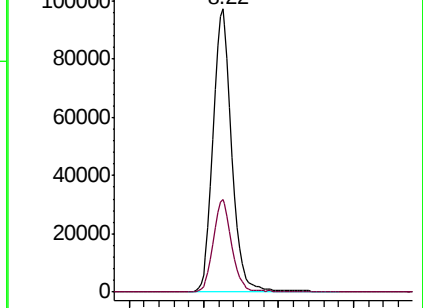
MMDadoda

8/31/2019 11:24:53 AM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#58

2-Chloroethyl Vinyl ether

Concen: 104.916 ug/l

RT: 7.11 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VU034102.D

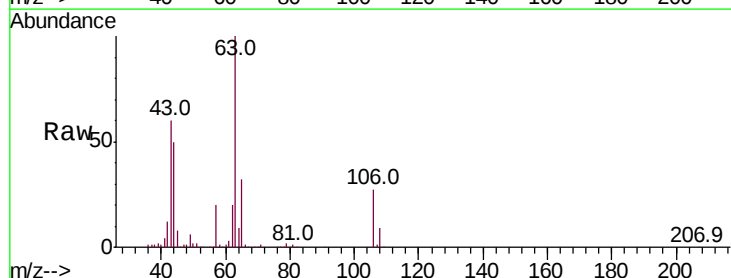
Acq: 30 Aug 2019 16:40

Tgt Ion: 63 Resp: 288818

Ion Ratio Lower Upper

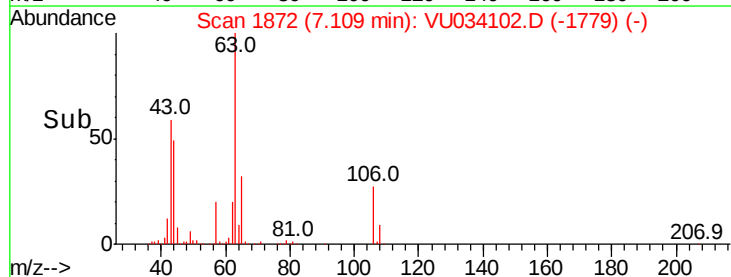
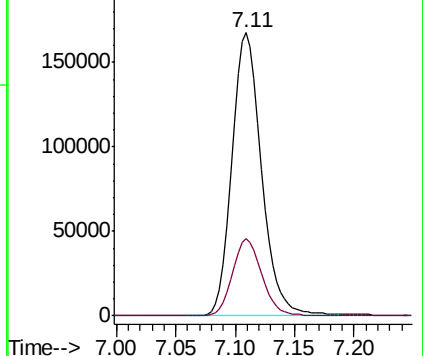
63 100

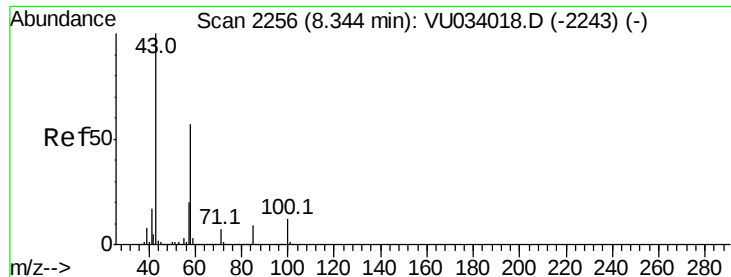
106 27.0 20.7 31.1



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V





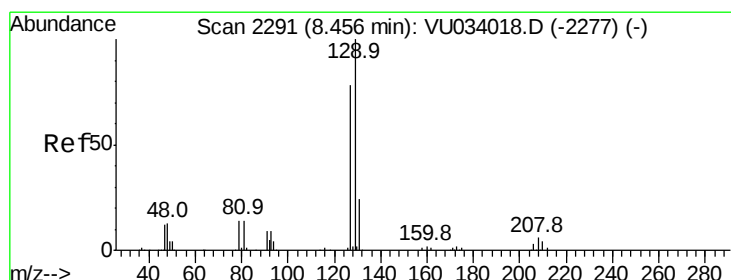
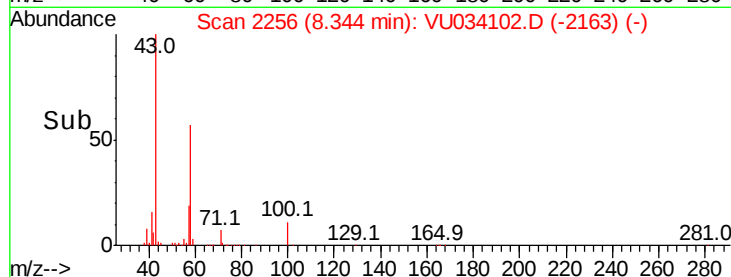
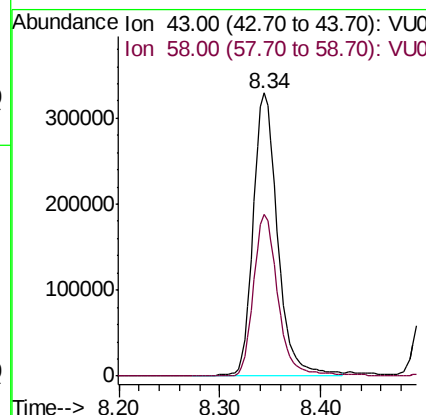
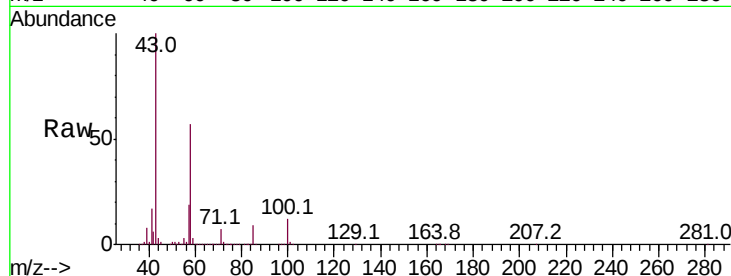
#59
2-Hexanone
Concen: 97.734 ug/l
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion: 43 Resp: 547896
Ion Ratio Lower Upper
43 100
58 57.7 28.4 85.3

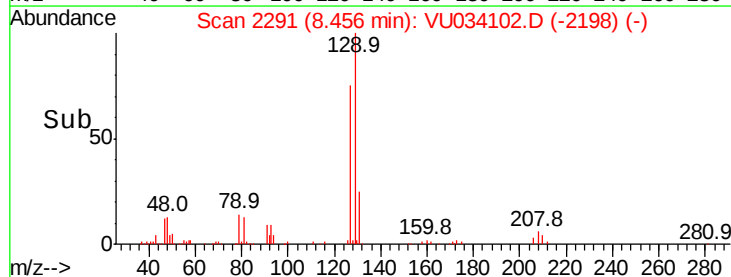
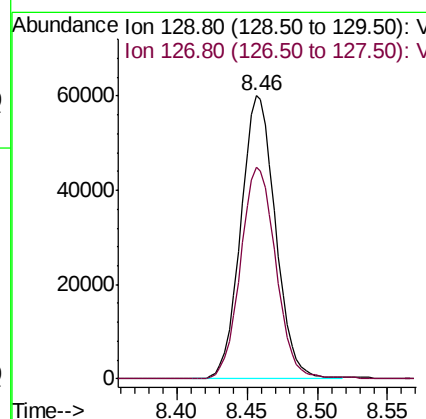
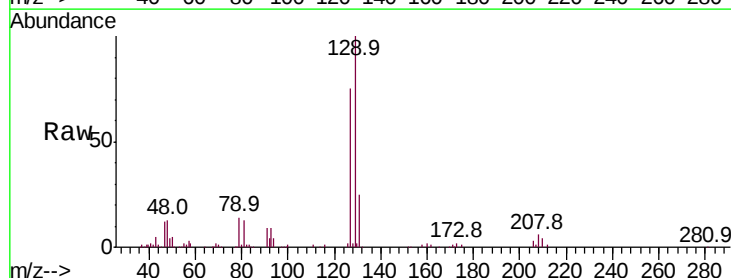
Manual Integrations
APPROVED

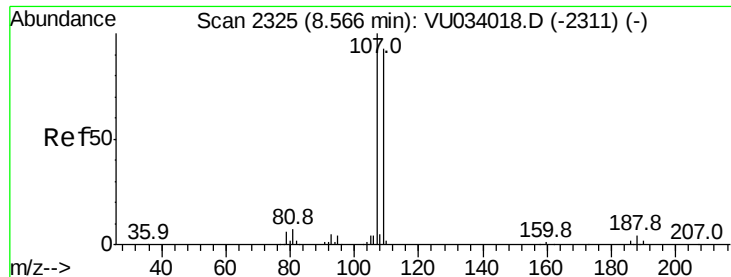
MMDadoda
8/31/2019 11:24:53 AM



#60
Dibromochloromethane
Concen: 19.367 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion: 129 Resp: 103449
Ion Ratio Lower Upper
129 100
127 76.4 39.0 116.9





#61

1,2-Dibromoethane

Concen: 19.460 ug/l

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion:107 Resp: 102002

Ion Ratio Lower Upper

107 100

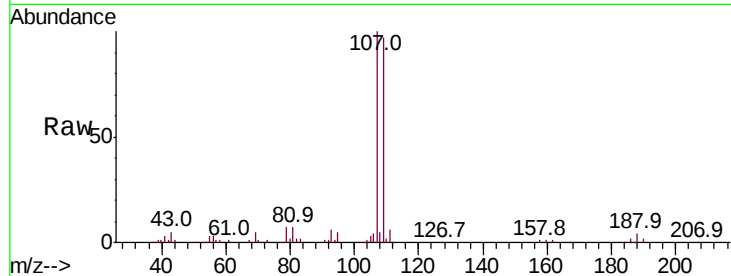
109 97.7 75.2 112.8

Manual Integrations

APPROVED

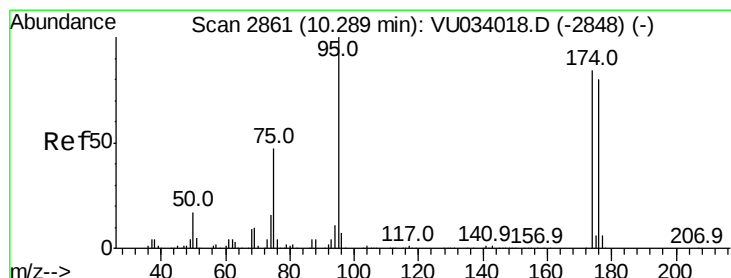
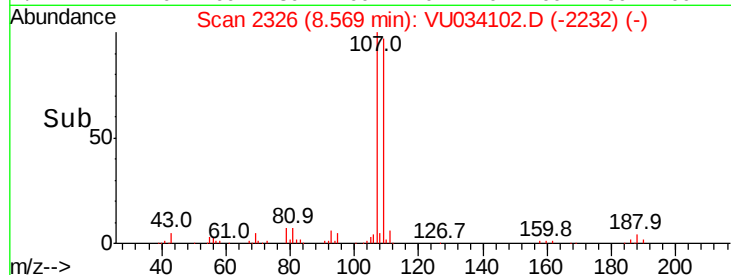
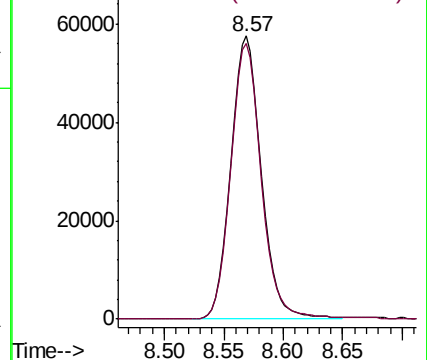
MMDadoda

8/31/2019 11:24:53 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 50.236 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

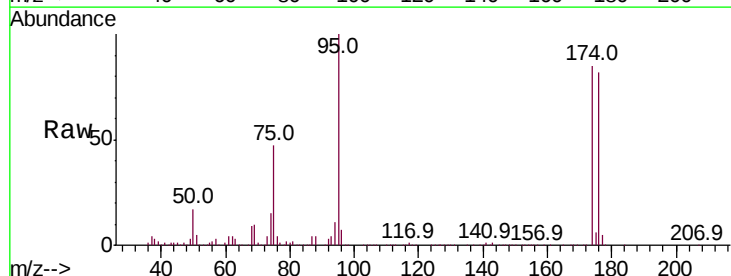
Tgt Ion: 95 Resp: 338647

Ion Ratio Lower Upper

95 100

174 84.1 0.0 168.8

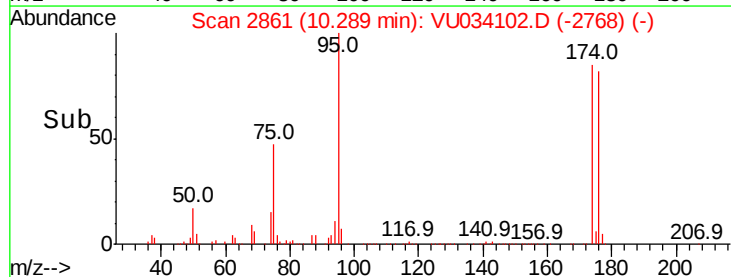
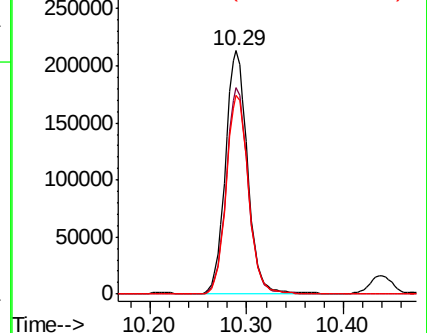
176 82.2 0.0 161.8

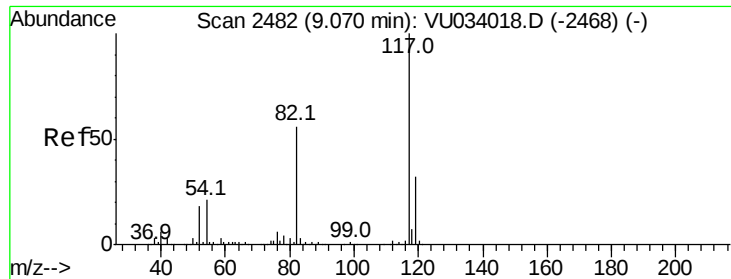


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





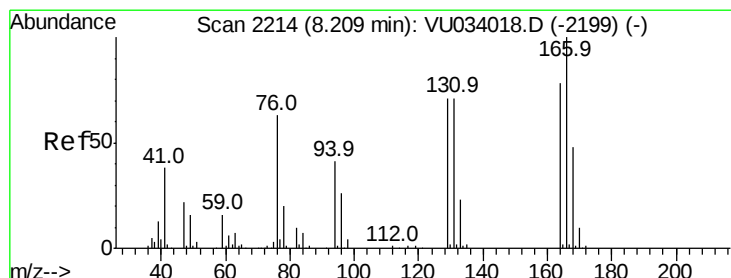
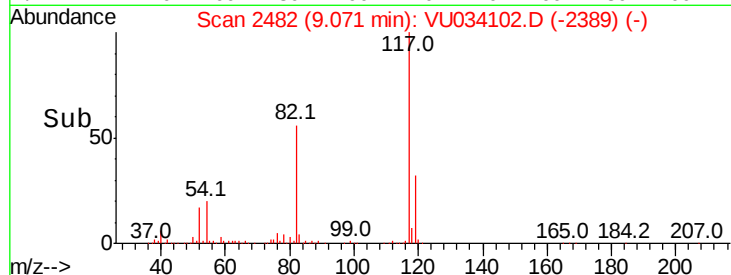
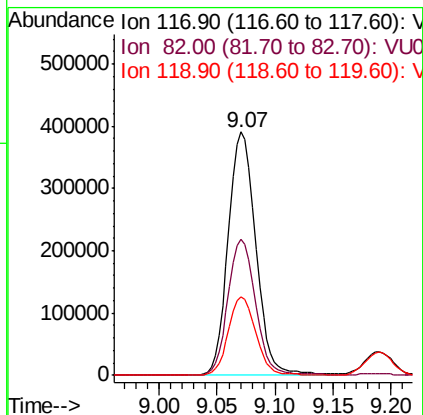
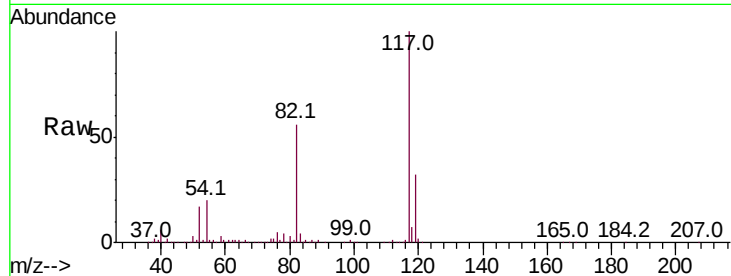
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.7	45.1	67.7
119	32.4	25.4	38.0

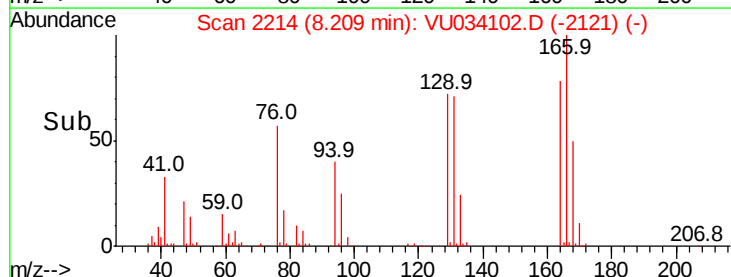
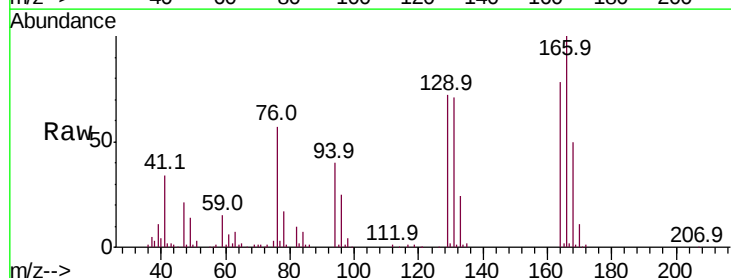
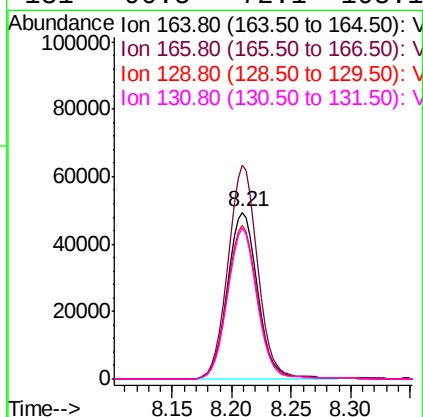
Manual Integrations
APPROVED

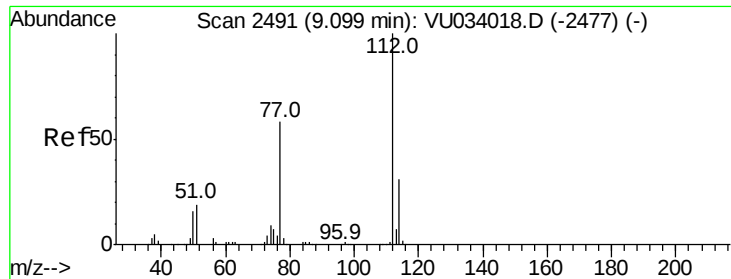
MMDadoda
8/31/2019 11:24:53 AM



#64
Tetrachloroethene
Concen: 20.025 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.3	102.2	153.2
129	91.9	72.4	108.6
131	90.5	72.1	108.1





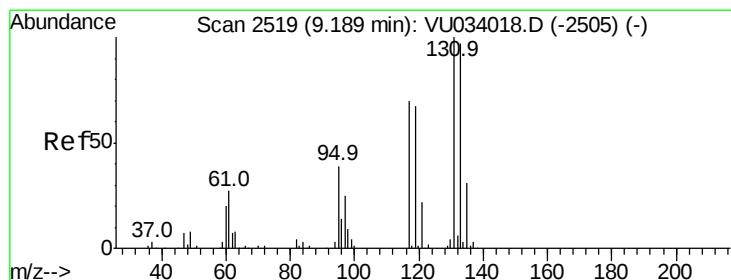
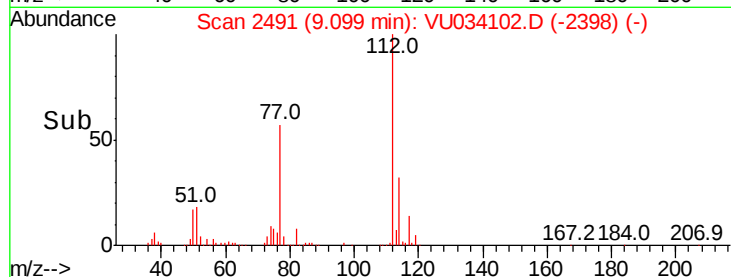
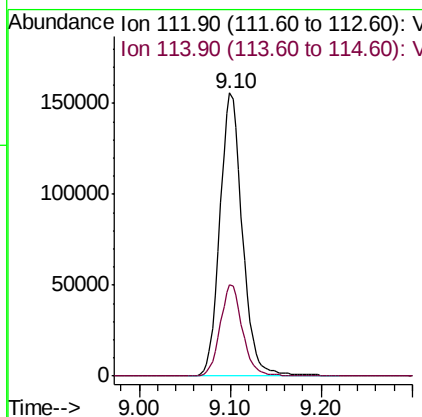
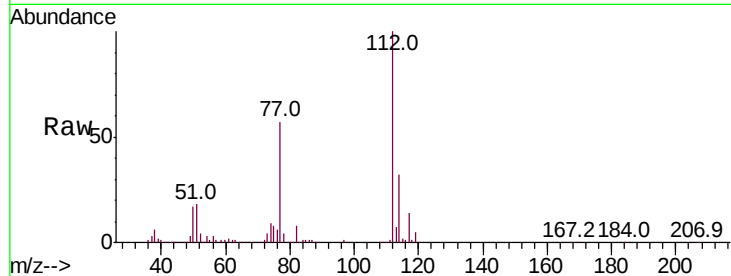
#65
Chlorobenzene
Concen: 20.124 ug/l
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion:112 Resp: 268640
Ion Ratio Lower Upper
112 100
114 32.2 25.0 37.4

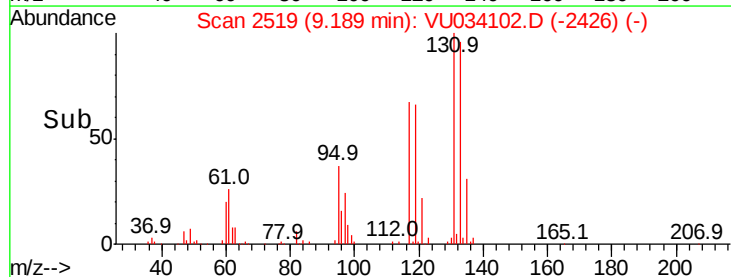
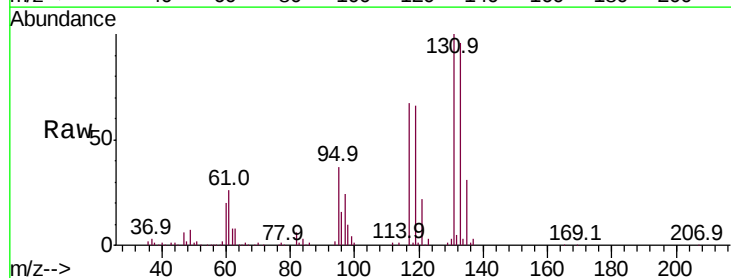
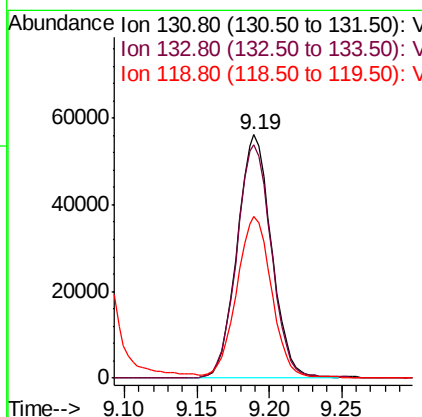
Manual Integrations
APPROVED

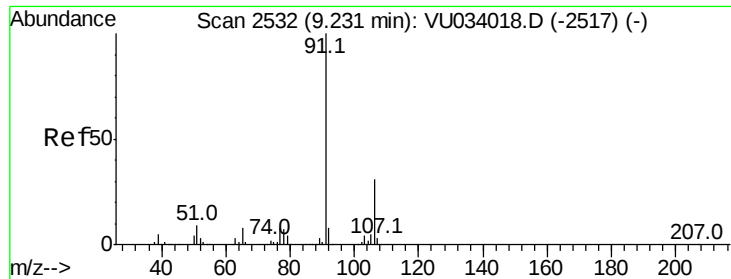
MMDadoda
8/31/2019 11:24:53 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.127 ug/l
RT: 9.19 min Scan# 2519
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion:131 Resp: 92586
Ion Ratio Lower Upper
131 100
133 97.1 48.4 145.2
119 66.4 33.6 100.6





#67

Ethyl Benzene

Concen: 20.230 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion: 91 Resp: 457774

Ion Ratio Lower Upper

91 100

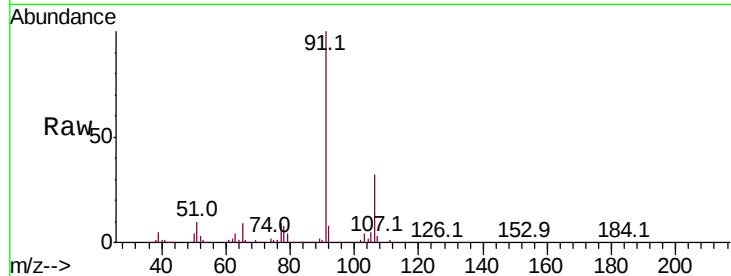
106 31.7 24.9 37.3

Manual Integrations

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8/31/2019 11:24:53 AM



Abundance Ion 91.00 (90.70 to 91.70): VU034102.D (-2439) (-)

Ion 106.00 (105.70 to 106.70): VU034102.D (-2439) (-)

500000

400000

300000

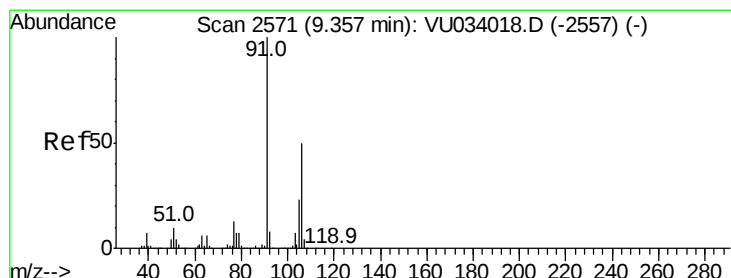
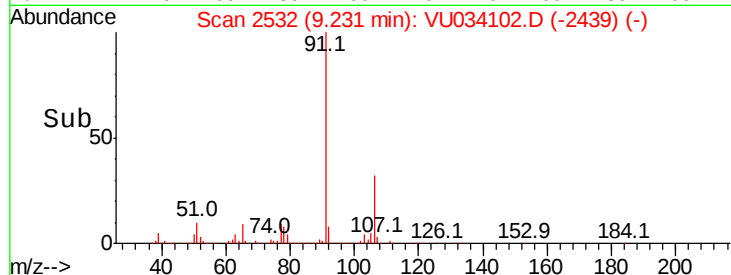
200000

100000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#68

m/p-Xylenes

Concen: 40.997 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU034102.D

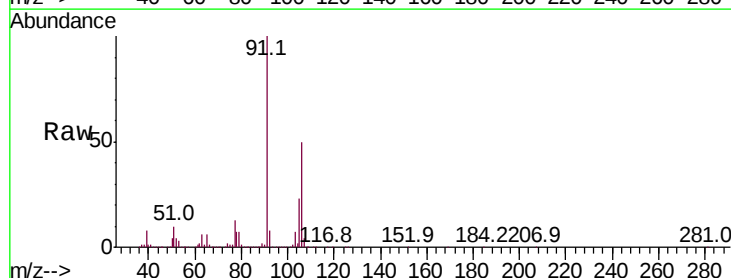
Acq: 30 Aug 2019 16:40

Tgt Ion: 106 Resp: 352748

Ion Ratio Lower Upper

106 100

91 200.4 161.6 242.4



Abundance Ion 106.00 (105.70 to 106.70): VU034102.D (-2478) (-)

Ion 91.00 (90.70 to 91.70): VU034102.D (-2478) (-)

500000

400000

300000

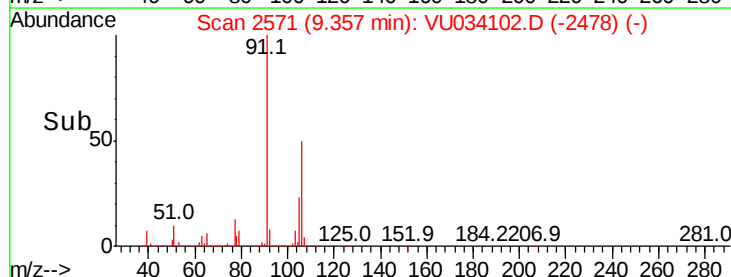
200000

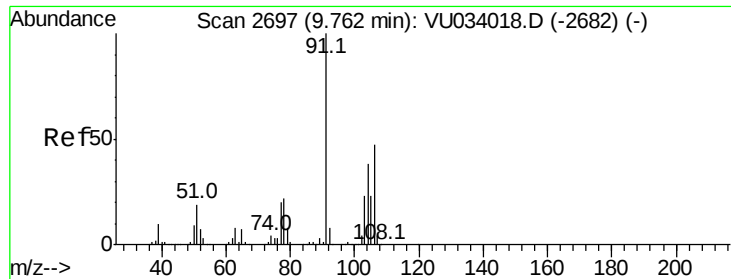
100000

0

9.30 9.40 9.50

Time-->





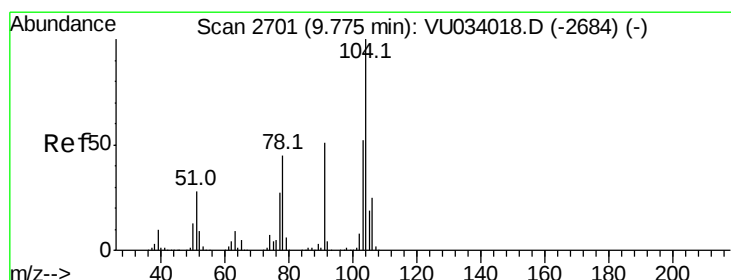
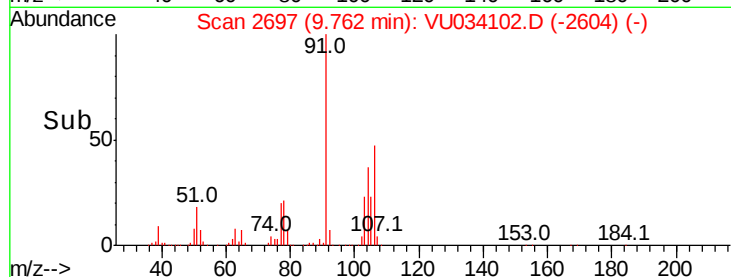
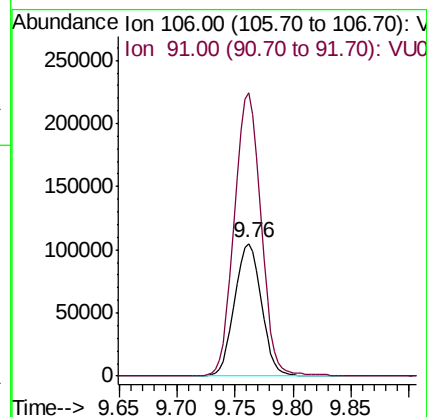
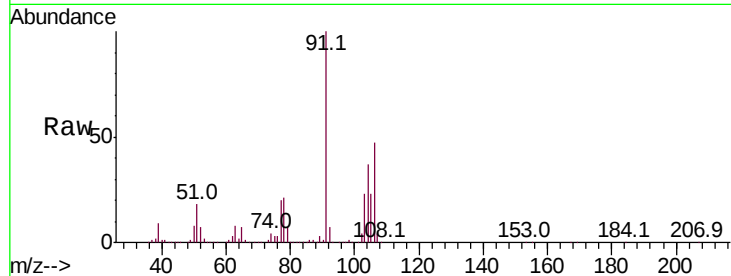
#69
o-Xylene
Concen: 20.423 ug/l
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	210.9	106.0	318.0

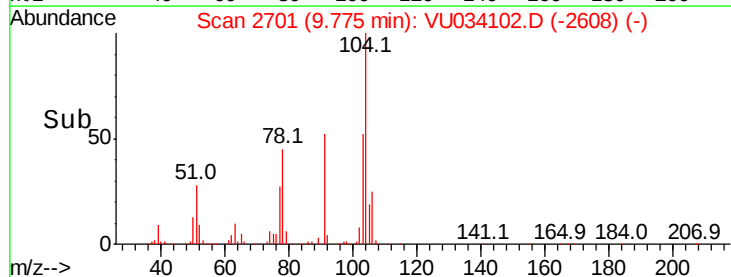
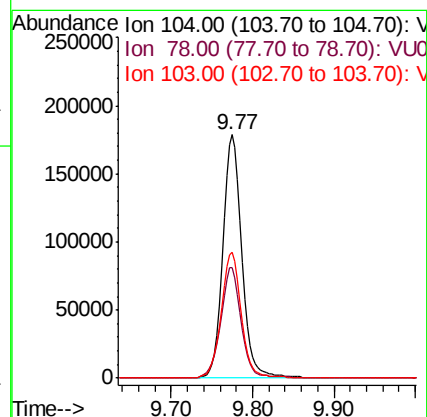
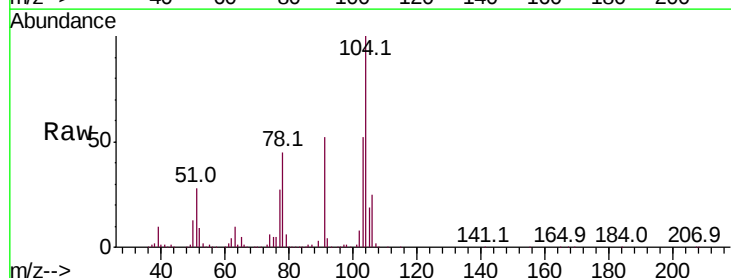
Manual Integrations
APPROVED

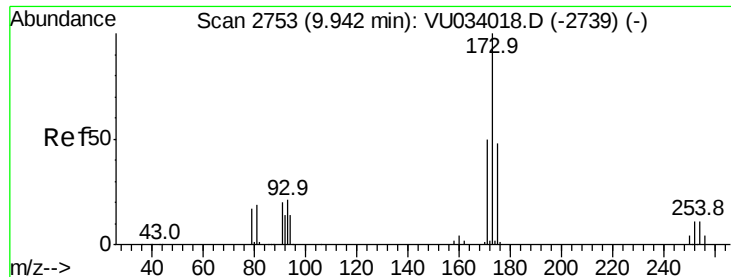
MMDadoda
8/31/2019 11:24:53 AM



#70
Styrene
Concen: 20.934 ug/l
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.6	39.0	58.4
103	54.5	44.0	66.0





#71

Bromoform

Concen: 18.277 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion:173 Resp: 76867

Ion Ratio Lower Upper

173 100

175 49.7 24.6 73.6

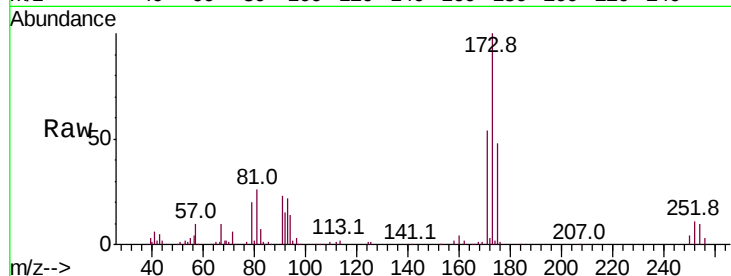
254 0.1 0.0 0.0#

Manual Integrations

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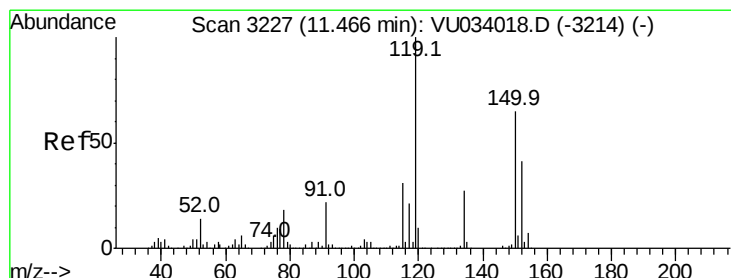
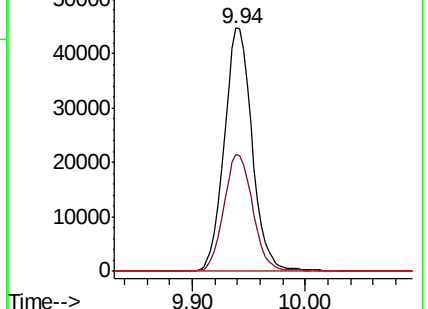
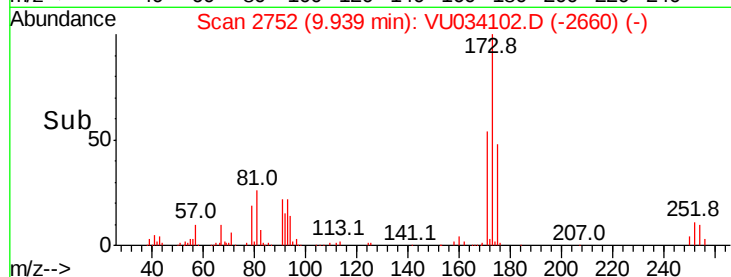
8/31/2019 11:24:53 AM



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: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

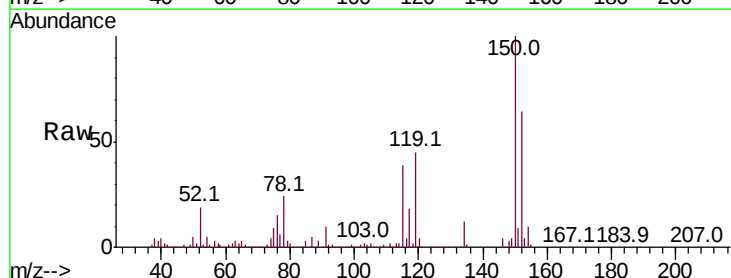
Tgt Ion:152 Resp: 341461

Ion Ratio Lower Upper

152 100

115 64.2 41.1 123.3

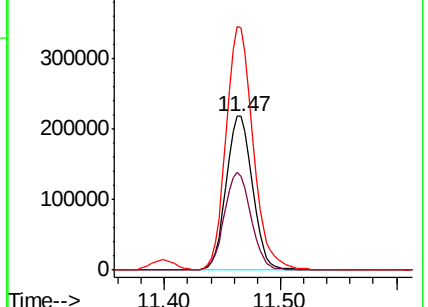
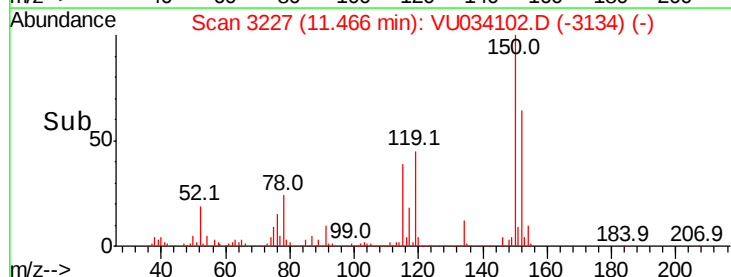
150 162.2 0.0 348.8

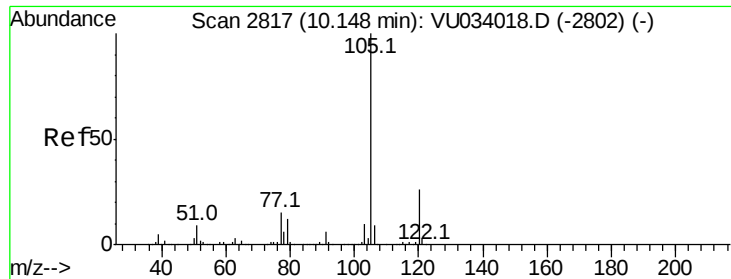


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.279 ug/l

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion:105 Resp: 442183

Ion Ratio Lower Upper

105 100

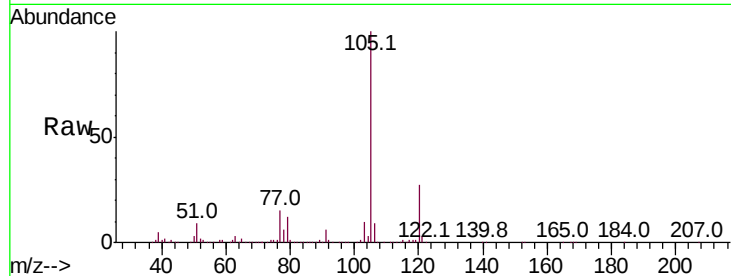
120 26.7 13.3 39.8

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

300000

250000

200000

150000

100000

50000

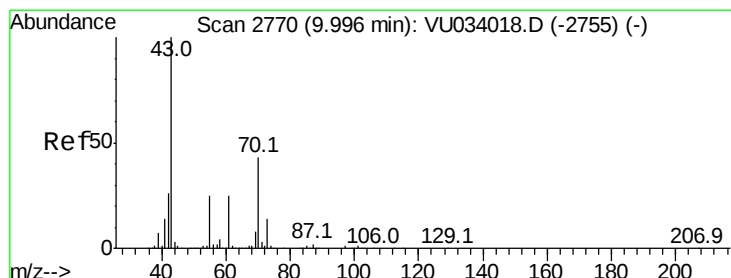
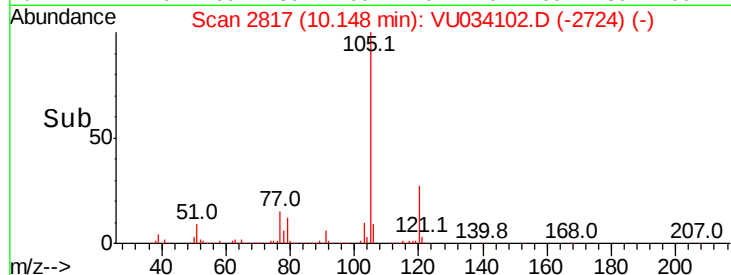
0

10.10

10.15

10.20

Time-->



#74

N-ethyl acetate

Concen: 20.108 ug/l

RT: 10.00 min Scan# 2770

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Tgt Ion: 43 Resp: 193973

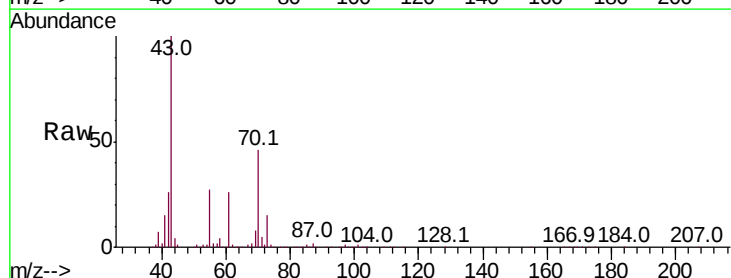
Ion Ratio Lower Upper

43 100

70 47.6 35.2 52.8

55 35.3 20.5 30.7#

61 24.9 20.0 30.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

200000

150000

100000

50000

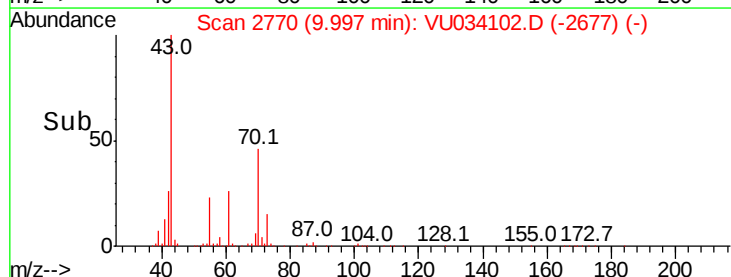
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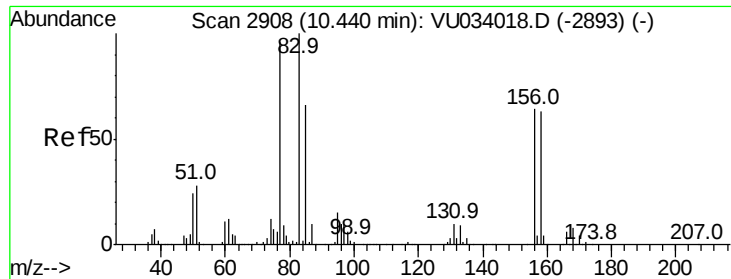
9.95

10.00

10.05

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.305 ug/l

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion: 83 Resp: 169475

Ion Ratio Lower Upper

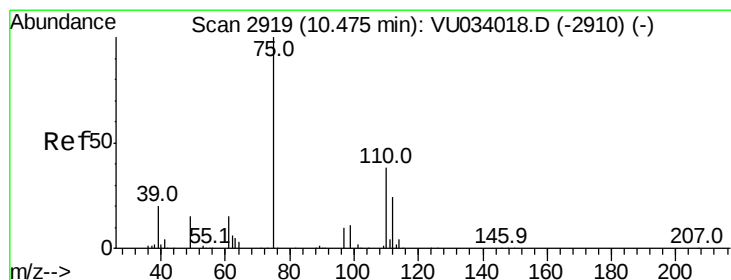
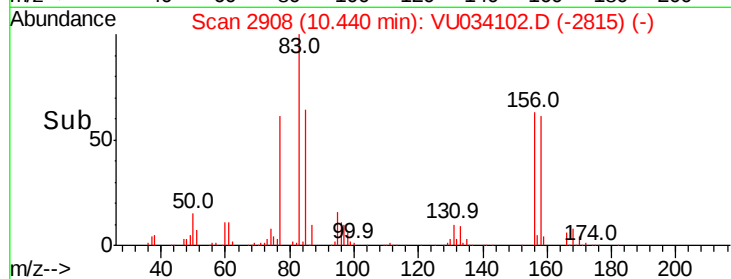
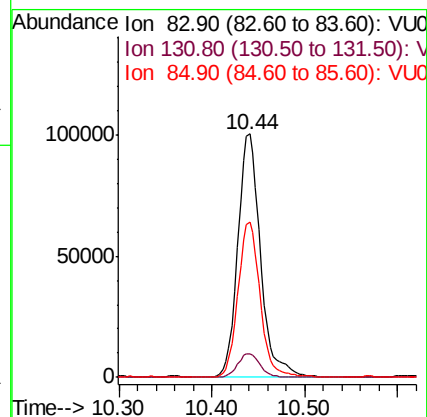
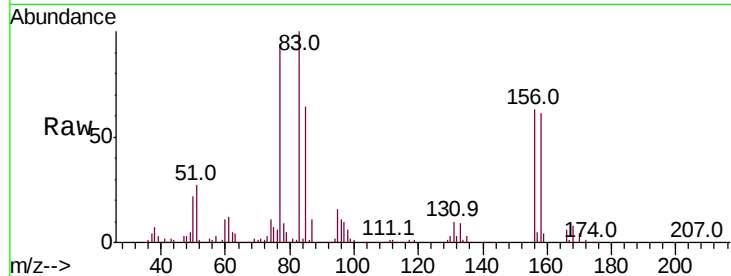
83 100

131 9.5 5.0 14.9

85 62.9 32.2 96.6

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#76

1,2,3-Trichloropropane

Concen: 18.652 ug/l m

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU034102.D

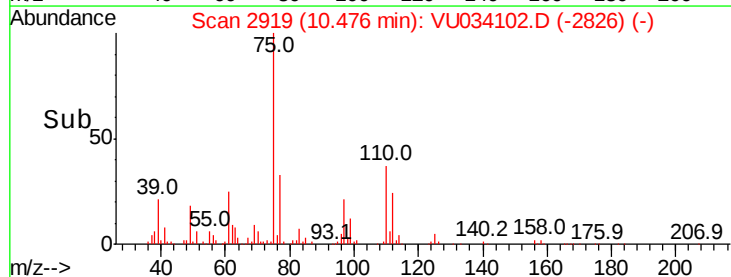
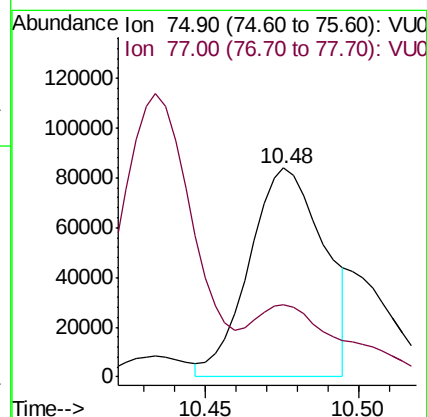
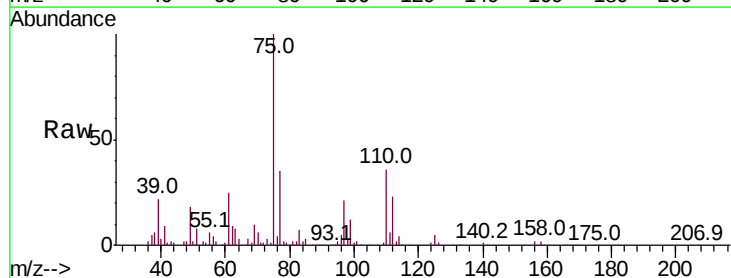
Acq: 30 Aug 2019 16:40

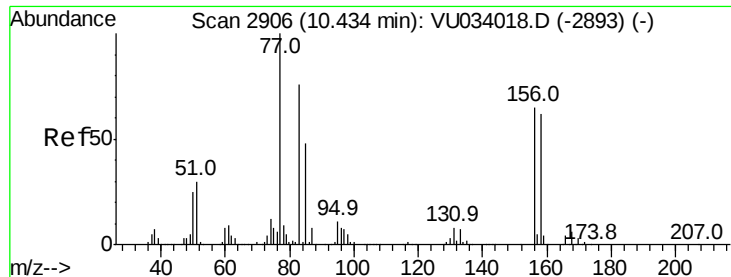
Tgt Ion: 75 Resp: 143544

Ion Ratio Lower Upper

75 100

77 40.3 20.1 60.2





#77

Bromobenzene

Concen: 19.906 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

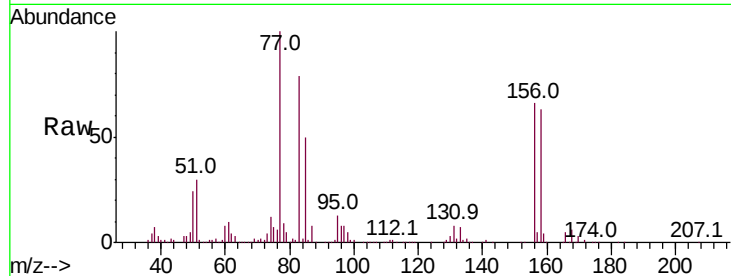
ClientSampleId :

VU0831MBS01

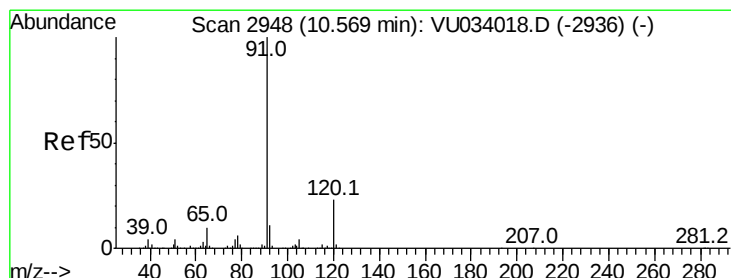
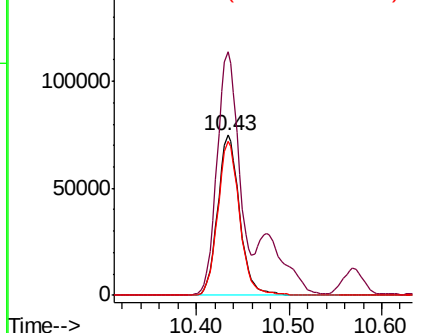
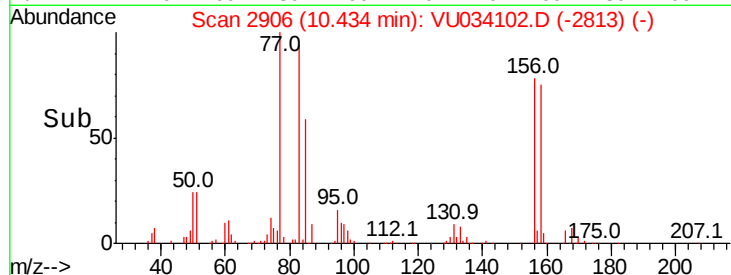
Tot Ion:	156	Resp:	122818
Ion Ratio	Lower	Upper	
156	100		
77	151.6	76.8	230.5
158	96.0	48.4	145.0

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Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.30): VU0
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.010 ug/l

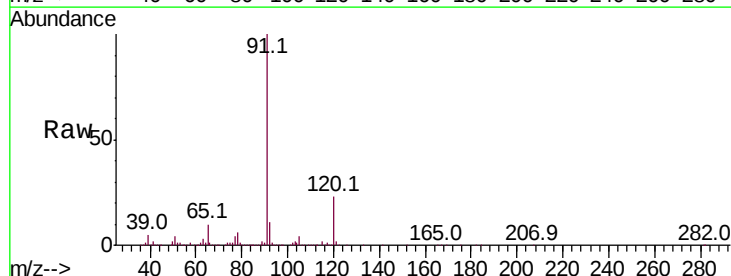
RT: 10.57 min Scan# 2948

Delta R.T. 0.00 min

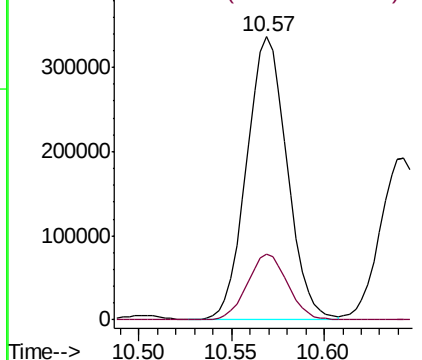
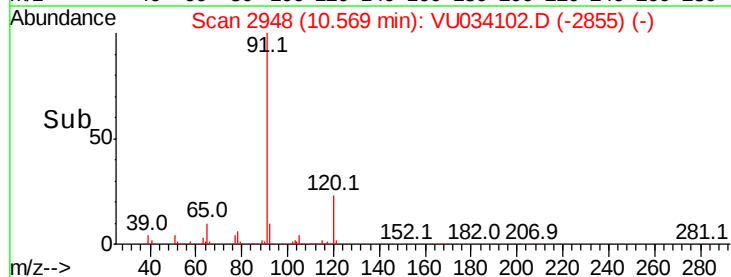
Lab File: VU034102.D

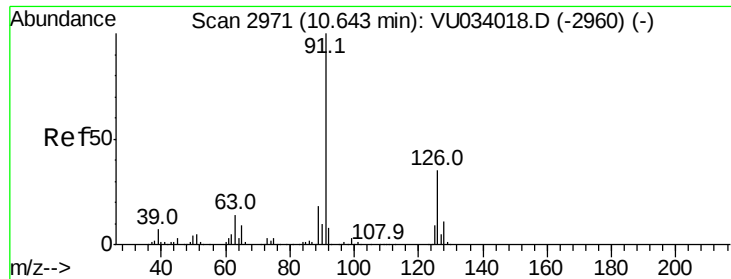
Acq: 30 Aug 2019 16:40

Tgt Ion:	91	Resp:	507784
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.7	35.0



Abundance Ion 91.00 (90.70 to 91.30): VU0
Ion 120.00 (119.70 to 120.30): V





#79

2-Chlorotoluene

Concen: 19.628 ug/l

RT: 10.64 min Scan# 2971

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion: 91 Resp: 314460

Ion Ratio Lower Upper

91 100

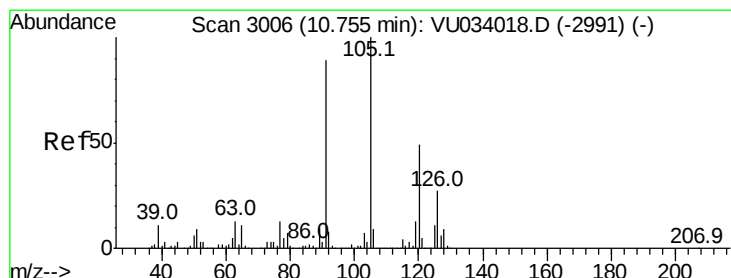
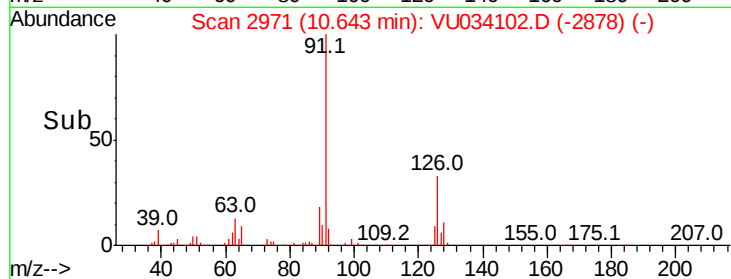
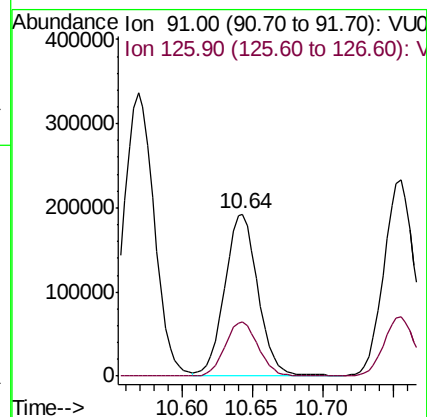
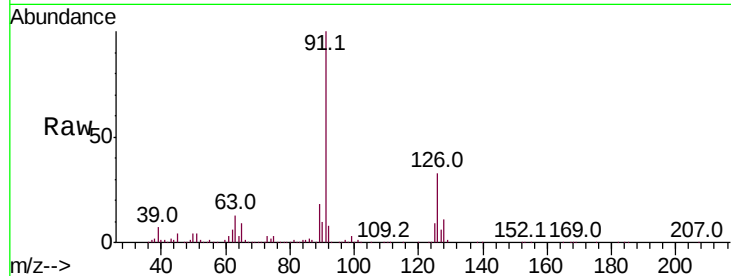
126 33.8 17.1 51.2

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 19.027 ug/l

RT: 10.75 min Scan# 3005

Delta R.T. -0.00 min

Lab File: VU034102.D

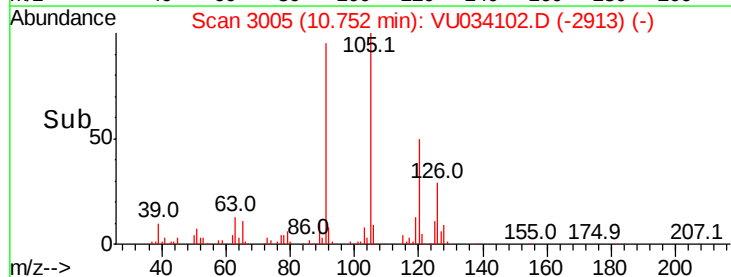
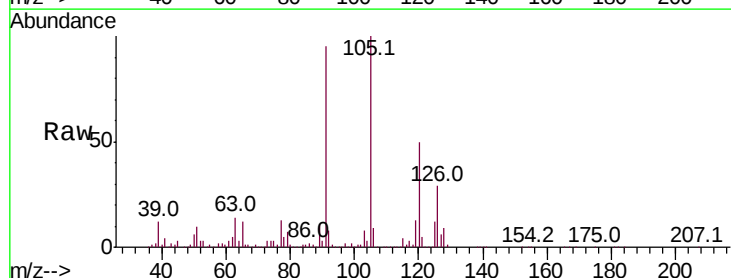
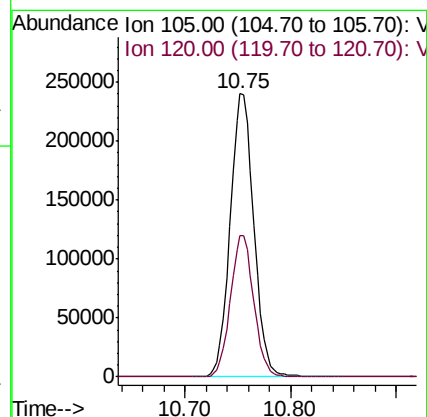
Acq: 30 Aug 2019 16:40

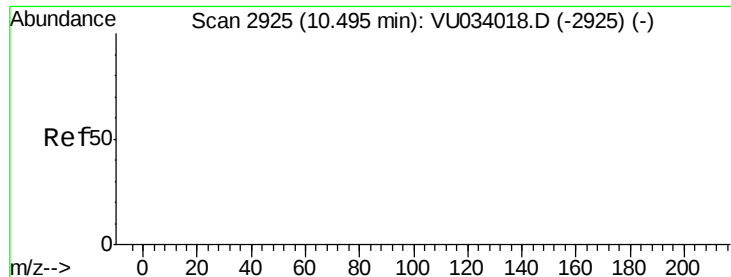
Tgt Ion: 105 Resp: 369883

Ion Ratio Lower Upper

105 100

120 49.6 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 22.881 ug/l m

RT: 10.49 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VU034102.D

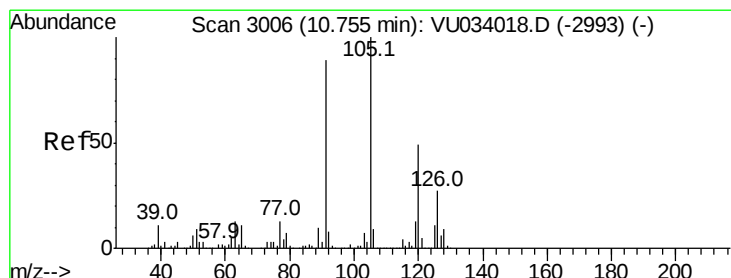
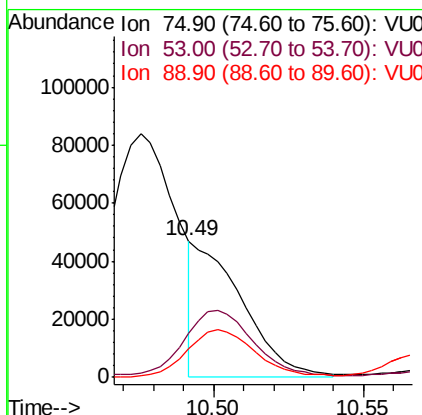
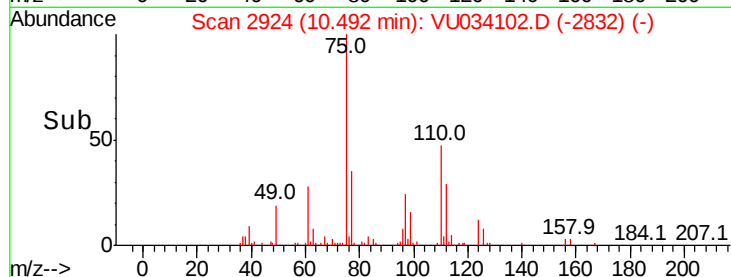
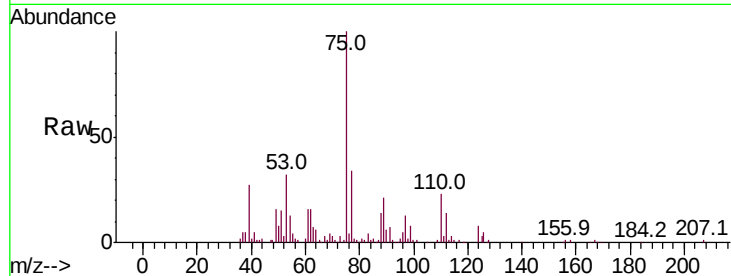
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

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

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#82

4-Chlorotoluene

Concen: 19.688 ug/l

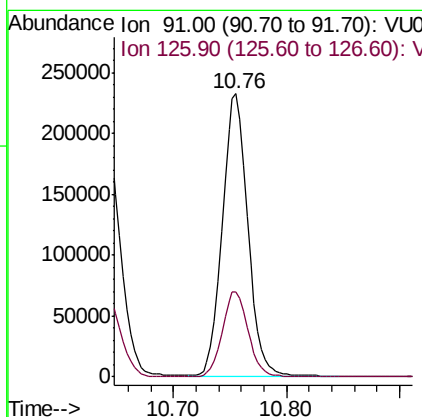
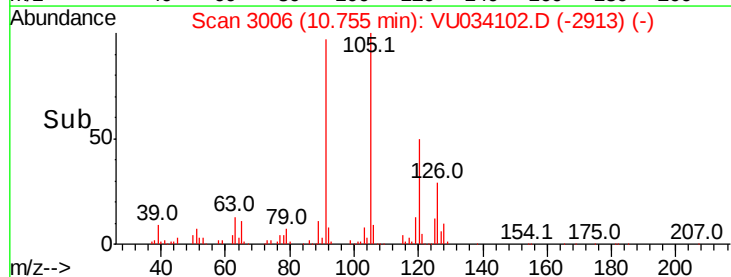
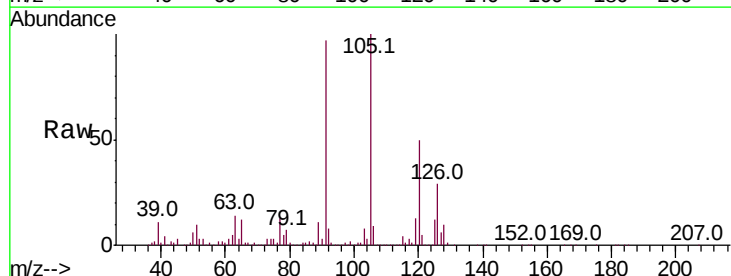
RT: 10.76 min Scan# 3006

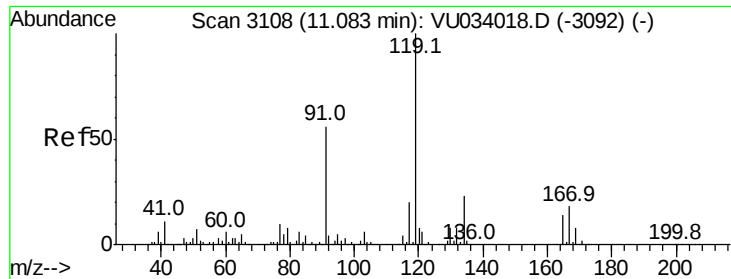
Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.4	15.0	45.1





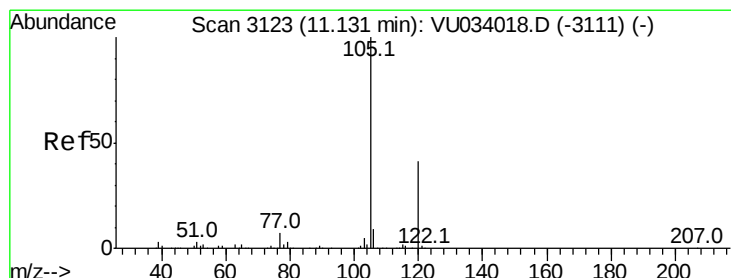
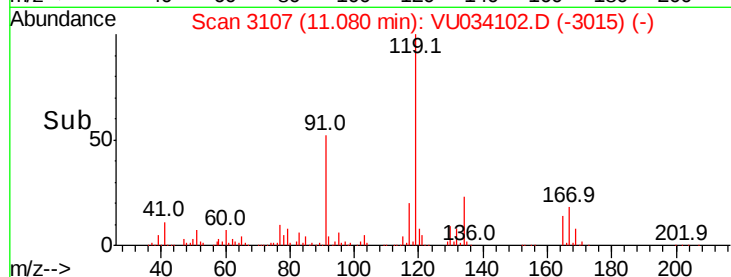
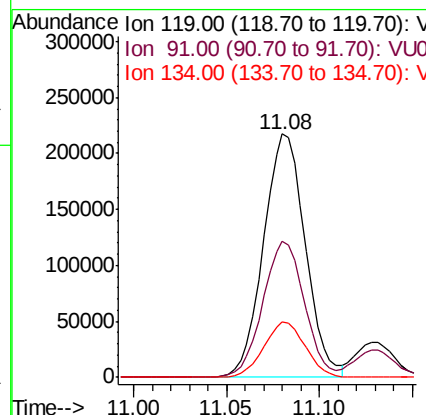
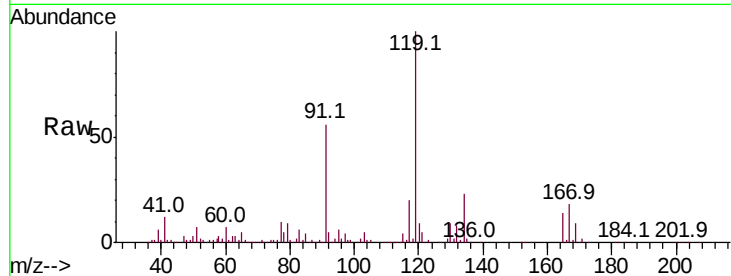
#83
tert-Butylbenzene
Concen: 17.777 ug/l
RT: 11.08 min Scan# 3107
Delta R.T. -0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	340196		
91	55.3	27.9	83.6	
134	22.6	11.4	34.2	

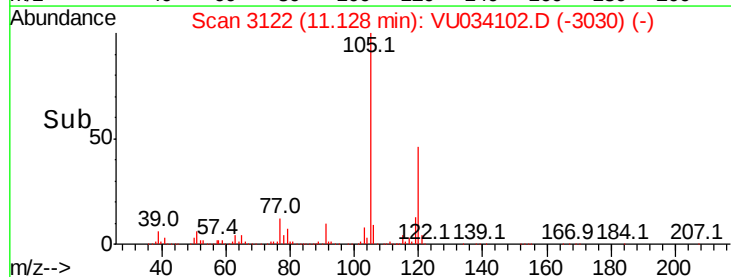
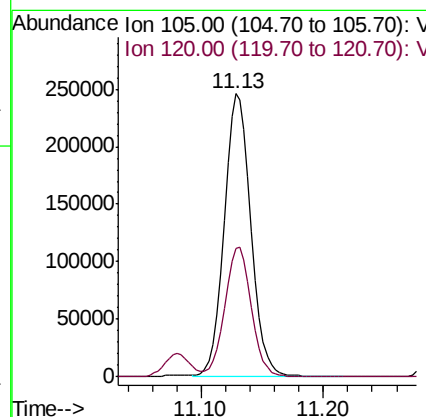
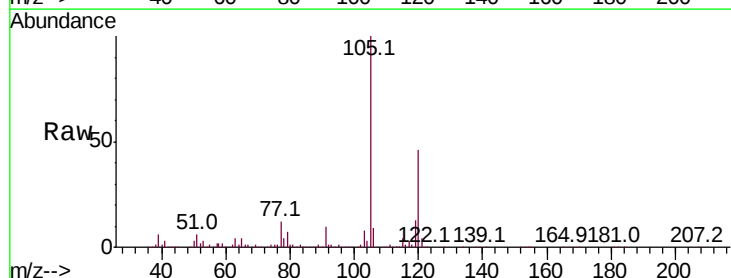
Manual Integrations
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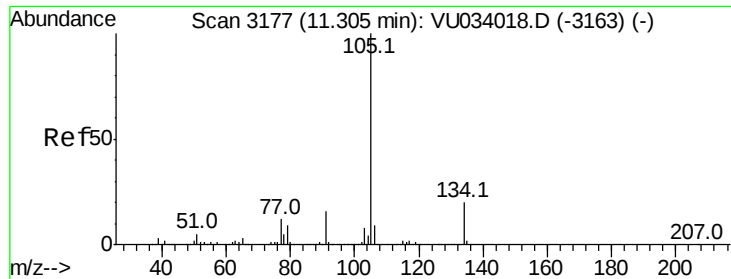
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#84
1,2,4-Trimethylbenzene
Concen: 19.467 ug/l
RT: 11.13 min Scan# 3122
Delta R.T. -0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	375781		
120	46.1	22.6	67.8	





#85

sec-Butylbenzene

Concen: 16.767 ug/l

RT: 11.31 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

Instrument :

MSVOA_U

ClientSampleId :

VU0831MBS01

Tot Ion:105 Resp: 384577

Ion Ratio Lower Upper

105 100

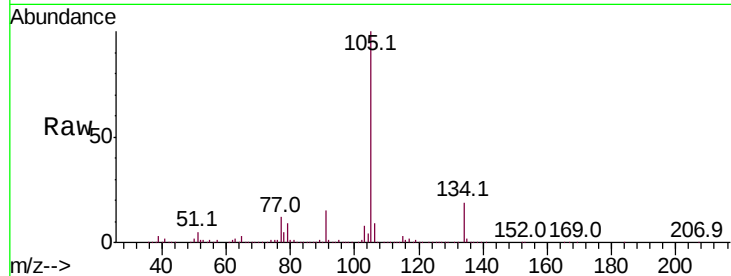
134 19.4 10.0 30.0

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

300000

250000

200000

150000

100000

50000

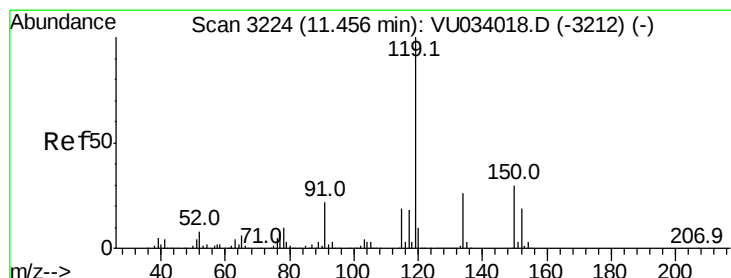
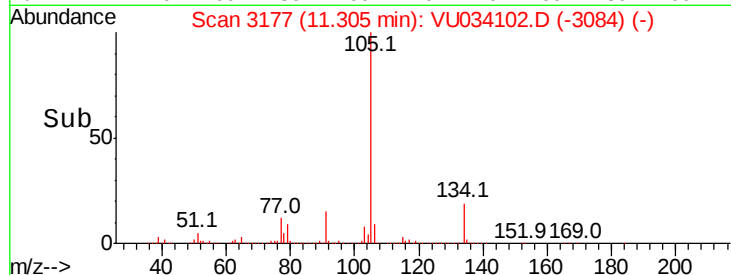
0

11.20

11.30

11.40

Time-->



#86

p-Isopropyltoluene

Concen: 17.089 ug/l

RT: 11.46 min Scan# 3224

Delta R.T. 0.00 min

Lab File: VU034102.D

Acq: 30 Aug 2019 16:40

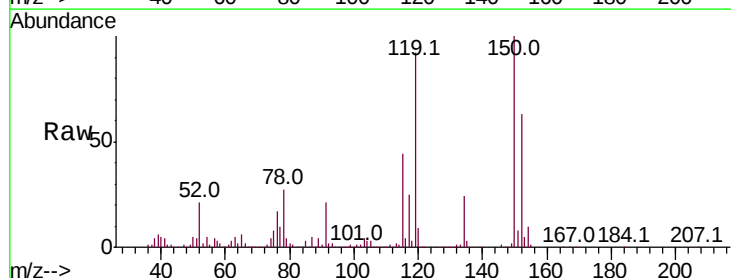
Tgt Ion:119 Resp: 354506

Ion Ratio Lower Upper

119 100

134 26.3 13.1 39.1

91 22.4 11.2 33.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU

300000

250000

200000

150000

100000

50000

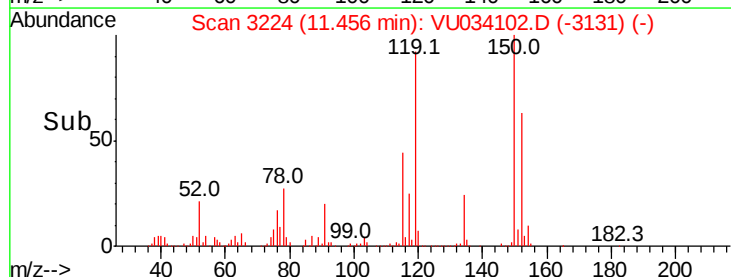
0

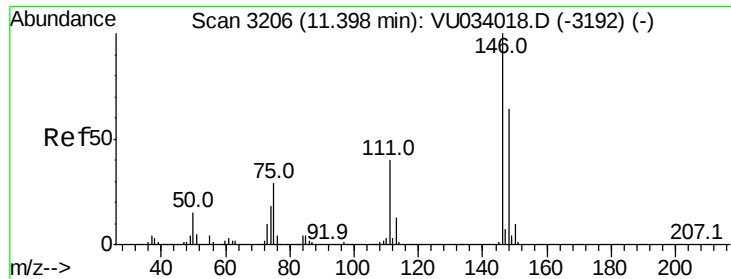
11.40

11.45

11.50

Time-->





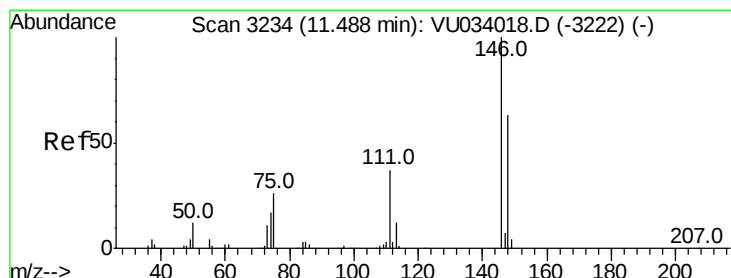
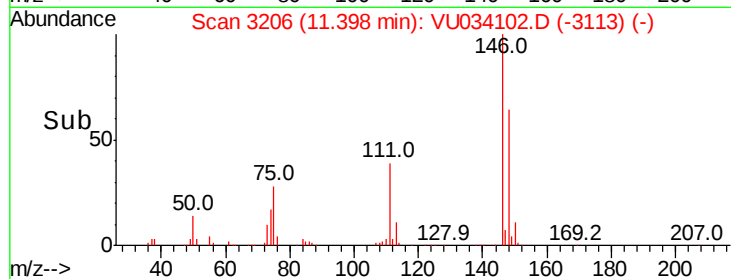
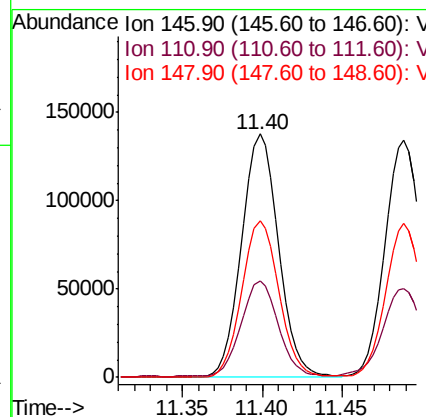
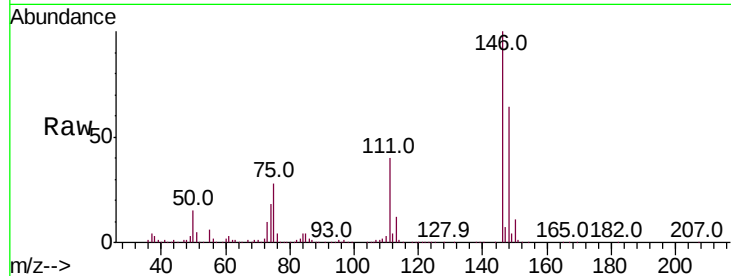
#87
 1,3-Dichlorobenzene
 Concen: 19.876 ug/l
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU034102.D
 Acq: 30 Aug 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.9	59.6
148	64.4	31.9	95.5

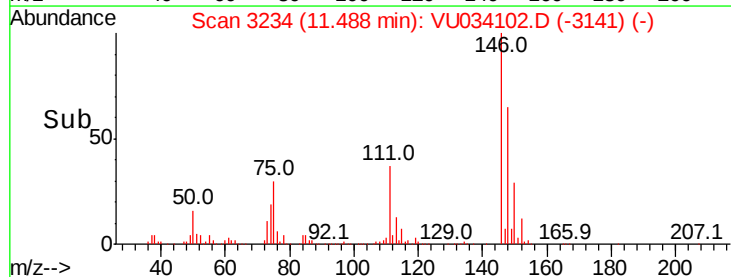
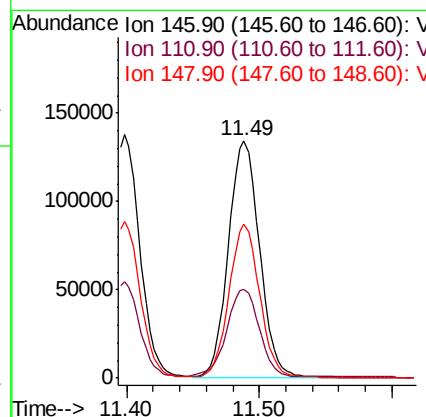
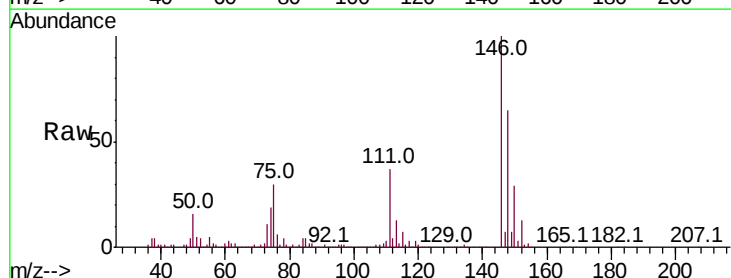
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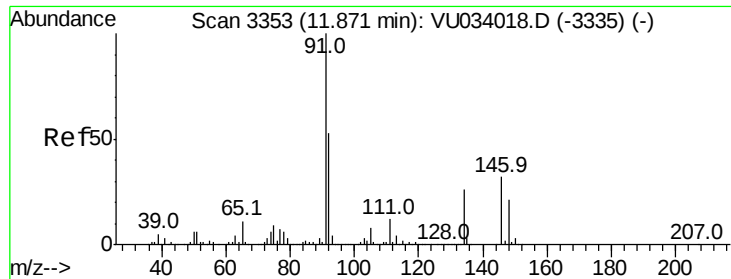
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#88
 1,4-Dichlorobenzene
 Concen: 19.844 ug/l
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU034102.D
 Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.2	57.6
148	64.0	31.9	95.9





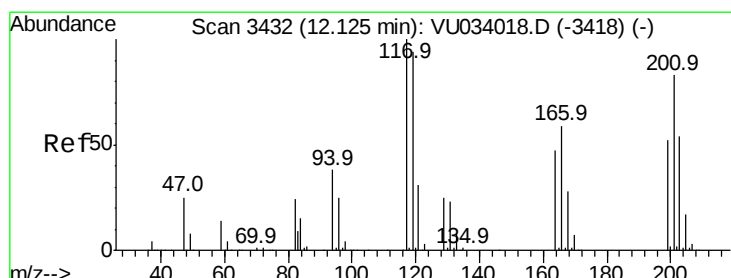
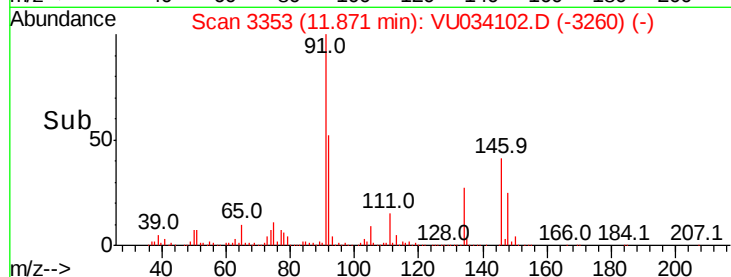
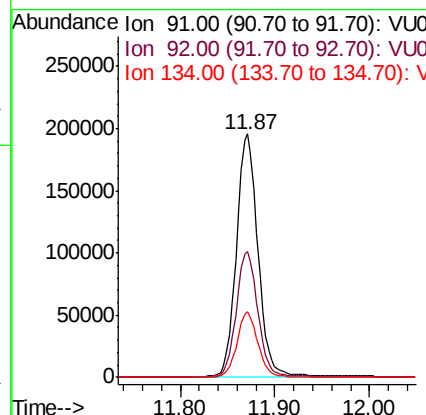
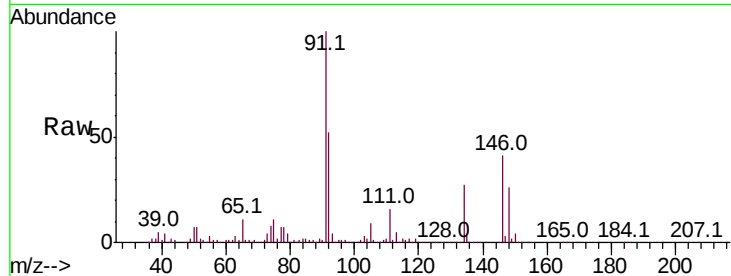
#89
n-Butylbenzene
Concen: 16.991 ug/l
RT: 11.87 min Scan# 3353
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	52.1	26.3	78.9	
134	26.6	12.9	38.7	

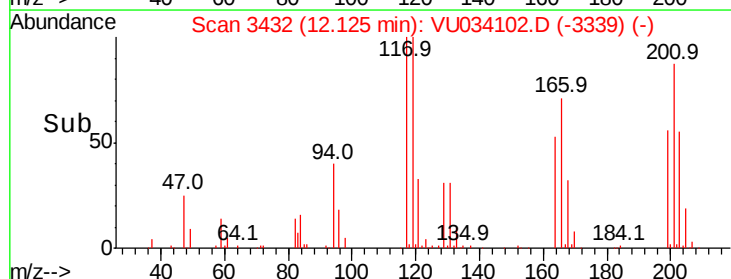
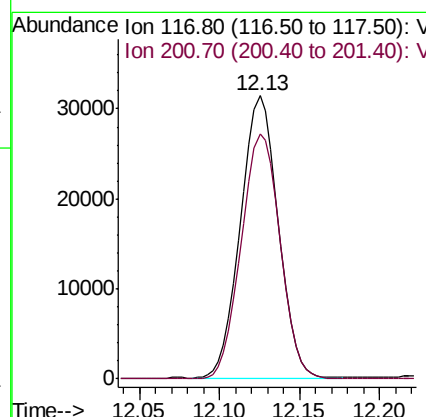
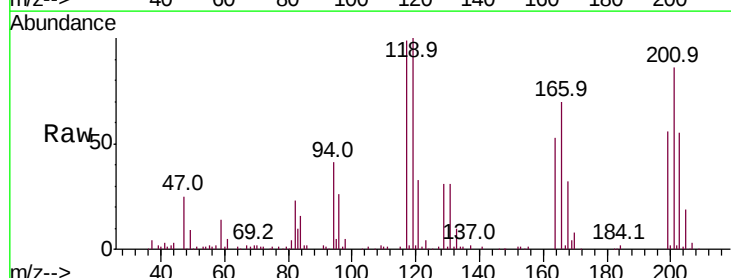
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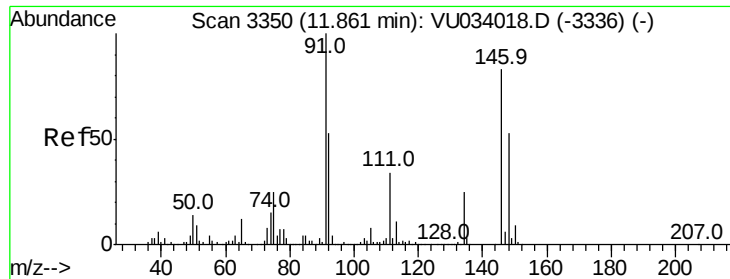
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#90
Hexachloroethane
Concen: 13.991 ug/l
RT: 12.13 min Scan# 3432
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	89.6	42.5	127.6	





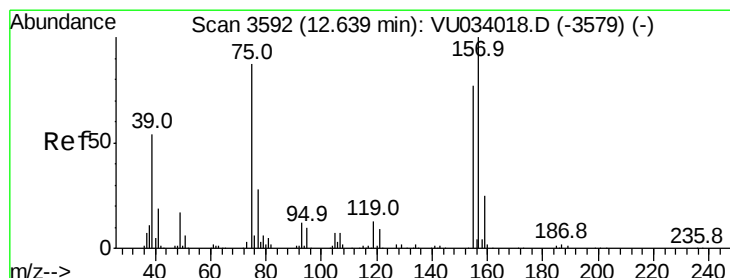
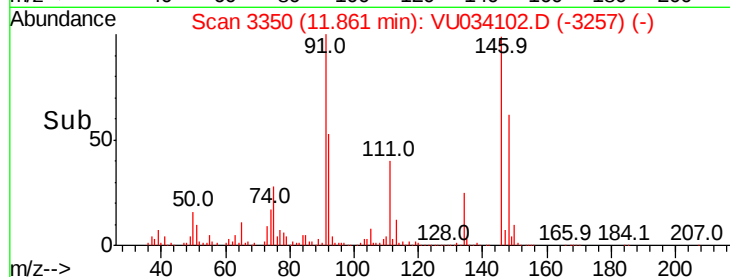
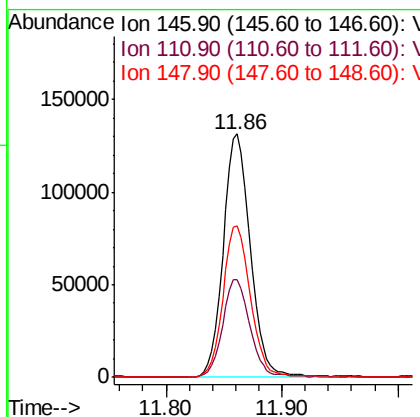
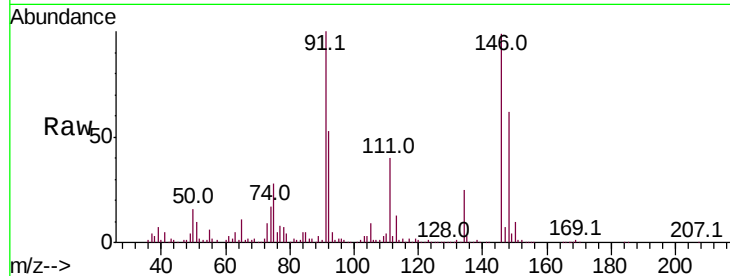
#91
 1,2-Dichlorobenzene
 Concen: 20.484 ug/l
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU034102.D
 Acq: 30 Aug 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.4	61.2
148	63.3	32.3	96.8

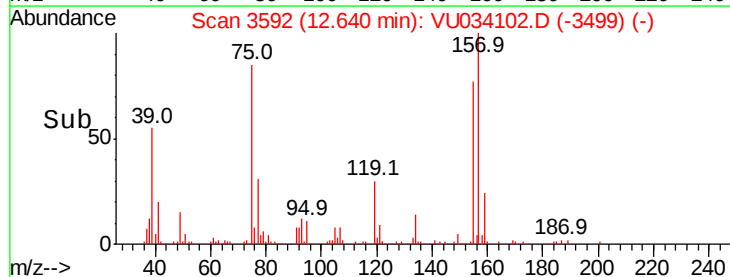
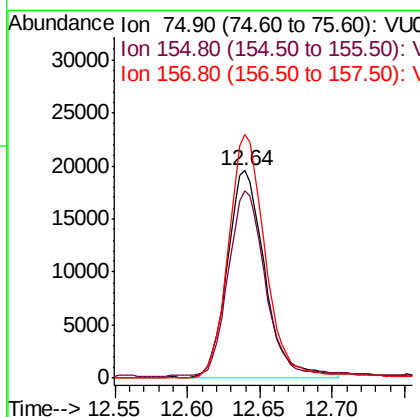
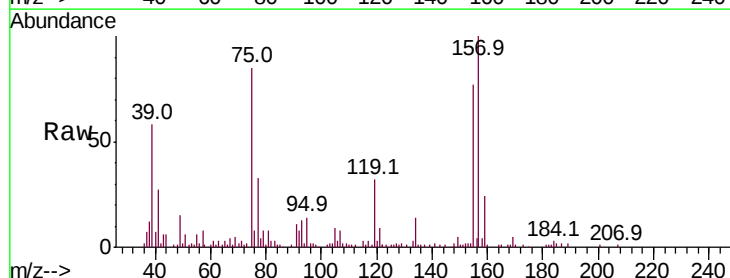
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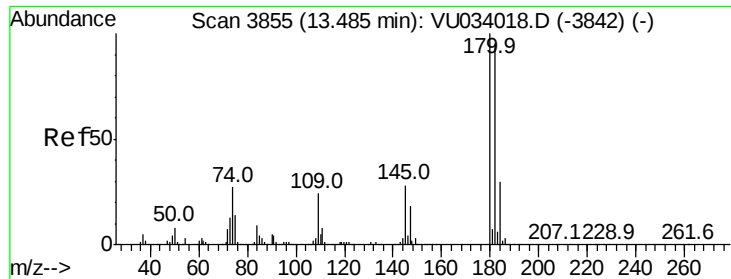
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.075 ug/l
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU034102.D
 Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.0	43.5	130.7
157	116.4	56.9	170.6





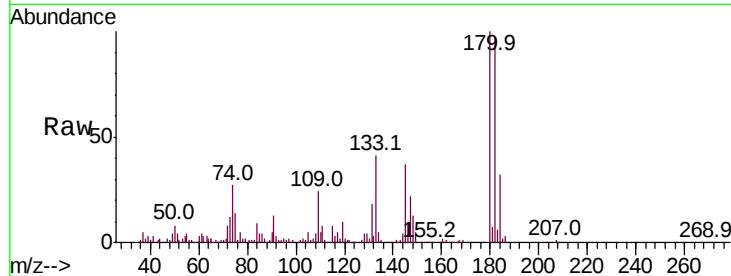
#93
 1,2,4-Trichlorobenzene
 Concen: 19.409 ug/l
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU034102.D
 Acq: 30 Aug 2019 16:40

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0831MBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.5	47.4	142.2	
145	34.7	14.1	42.3	

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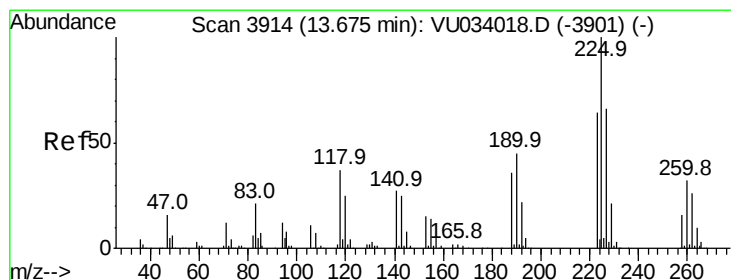
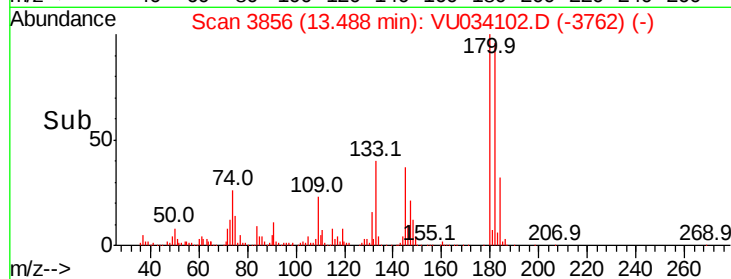
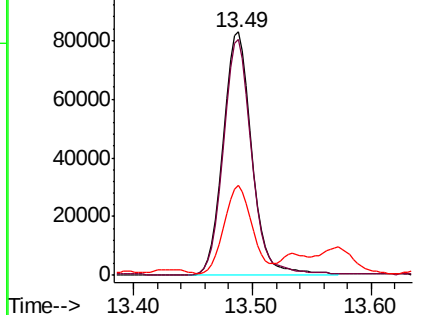


Abundance

Ion 179.80 (179.50 to 180.50): V

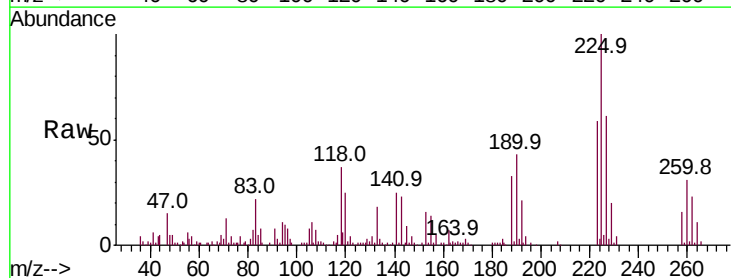
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 12.210 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. 0.00 min
 Lab File: VU034102.D
 Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	58.7	31.8	95.3	
227	61.1	32.6	97.8	

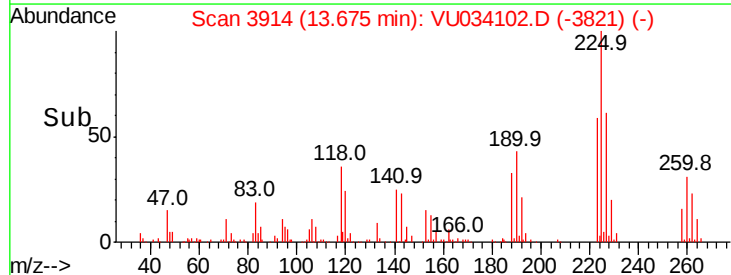
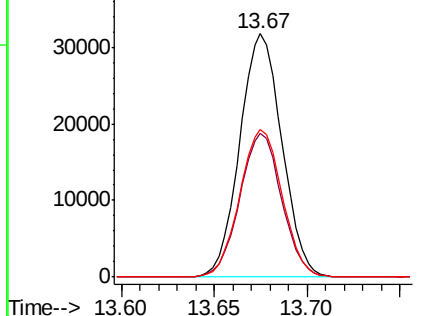


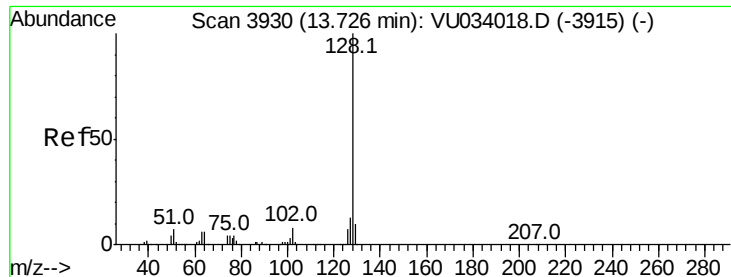
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





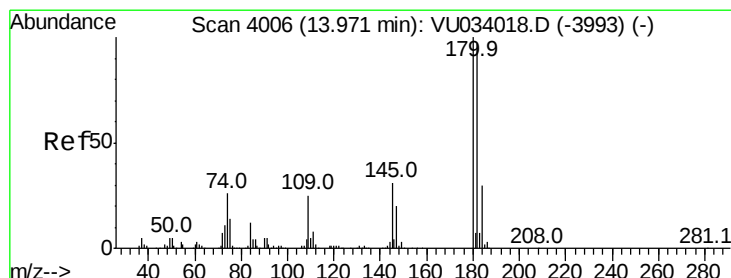
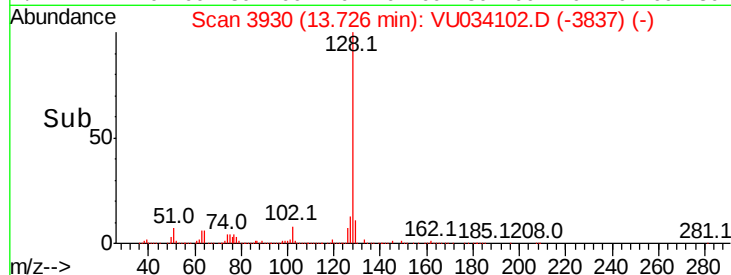
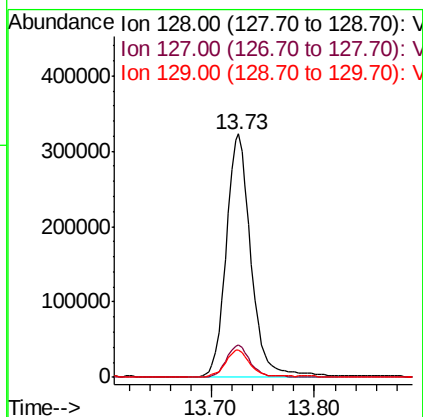
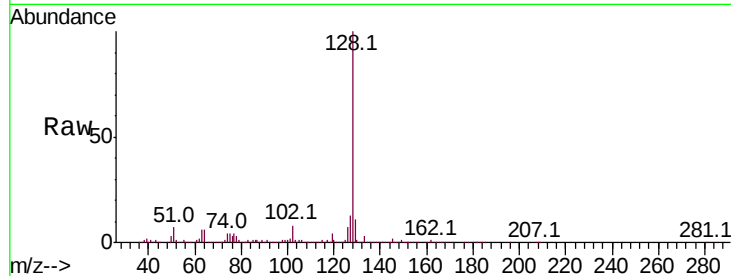
#95
Naphthalene
Concen: 26.229 ug/l
RT: 13.73 min Scan# 3930
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Instrument :
MSVOA_U
ClientSampleId :
VU0831MBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.8	8.4	12.6

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#96
1,2,3-Trichlorobenzene
Concen: 21.391 ug/l
RT: 13.97 min Scan# 4006
Delta R.T. 0.00 min
Lab File: VU034102.D
Acq: 30 Aug 2019 16:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	48.2	144.6
145	0.0	15.5	46.5#

