

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091119\
 Data File : VU034469.D
 Acq On : 11 Sep 2019 11:07
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 Client Sample ID :
 VSTDIC005

Manual Integrations
 APPROVED

Quant Time: Sep 12 02:36:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U091119DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Thu Sep 12 02:05:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	5.72	96	65024	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.29	95	25255	1.00	ug/l	0.00
Spiked Amount	1.000		Recovery	=	100.00%	
68) 1,2-Dichlorobenzene-d4	11.84	152	27129	1.03	ug/l	0.00
Spiked Amount	1.000		Recovery	=	103.00%	

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Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.21	85	114732	4.329	ug/l	100
3) Chloromethane	1.33	50	125922	4.317	ug/l	100
4) Vinyl Chloride	1.40	62	126507	3.936	ug/l	99
5) Bromomethane	1.62	94	68179	3.400	ug/l	97
6) Chloroethane	1.69	64	74071	3.405	ug/l	99
7) Trichlorofluoromethane	1.88	101	156909	3.606	ug/l	97
8) 1,1,2-Trichloro-1,2,2-trif	2.28	101	83401	3.682	ug/l	99
9) 1,1-Dichloroethene	2.28	96	85080	3.810	ug/l	98
10) Iodomethane	2.40	142	91407	3.132	ug/l	98
11) Allyl Chloride	2.58	41	140200	3.807	ug/l	100
12) Acrylonitrile	2.93	53	35680	5.887	ug/l	98
13) Acetone	2.31	43	71402	13.752	ug/l	99
14) Carbon Disulfide	2.47	76	296545	3.523	ug/l	100
15) Methylene Chloride	2.69	84	94035	3.151	ug/l	99
16) trans-1,2-Dichloroethene	2.96	96	94888	3.600	ug/l	100
17) 1,1-Dichloroethane	3.42	63	183702	4.937	ug/l	99
18) 2-Butanone	4.26	43	110747	21.488	ug/l	99
19) Cyclohexane	4.97	56	148869m	5.384	ug/l	
20) Methylcyclohexane	6.39	83	150205	5.393	ug/l	97
21) 2,2-Dichloropropane	4.20	77	144676	4.578	ug/l	100
22) cis-1,2-Dichloroethene	4.20	96	104677	4.989	ug/l	100
23) Diethyl Ether	2.10	59	64214	3.404	ug/l	99
24) tert-Butyl Alcohol	2.82	59	70238	24.507	ug/l	99
25) Methyl tert-Butyl Ether	2.99	73	205399	3.271	ug/l	99
26) Bromochloromethane	4.52	128	44360	4.852	ug/l	99
27) Chloroform	4.65	83	180135	4.302	ug/l	99
28) 1,1,1-Trichloroethane	4.89	97	149503	4.618	ug/l	99
29) 1,1-Dichloropropene	5.11	75	132578	4.930	ug/l	98
30) Carbon Tetrachloride	5.11	117	133963	4.684	ug/l	99
31) Isopropyl Ether	3.56	45	263154	5.476	ug/l	99
32) Ethyl-t-butyl ether	4.05	59	223963	4.957	ug/l	99
33) Tert-Amyl methyl ether	5.56	73	193072	4.840	ug/l	100
34) Propionitrile	4.31	54	35865	24.617	ug/l #	95
35) Benzene	5.37	78	396355	5.074	ug/l	98
36) 1,2-Dichloroethane	5.39	62	99979	3.989	ug/l	100
37) Trichloroethene	6.16	130	107116	5.138	ug/l	96
38) 1,2-Dichloropropane	6.41	63	103606	4.839	ug/l	100
39) Methacrylonitrile	4.53	41	25931	4.428	ug/l	97
40) Methyl acrylate	4.41	55	38983	4.288	ug/l	99
41) Tetrahydrofuran	4.63	42	27524	9.413	ug/l	96
42) 1-Chlorobutane	5.04	56	181620	5.004	ug/l	98

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 ALS Vial : 6 Sample Multiplier: 1

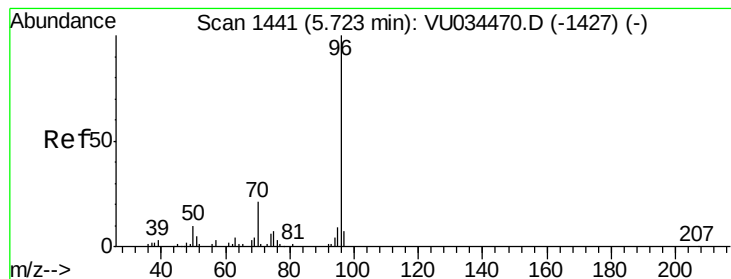
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

Quant Time: Sep 12 02:36:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U091119DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Thu Sep 12 02:05:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.54	93	47735	4.145	ug/l	98
44) Bromodichloromethane	6.74	83	122623	4.350	ug/l	99
45) 4-Methyl-2-Pentanone	7.44	43	250640	21.430	ug/l	100
46) t-1,4-Dichloro-2-butene	10.50	75	40695m	8.785	ug/l	
47) Methyl methacrylate	6.61	69	80261	9.114	ug/l	98
48) Ethyl methacrylate	8.00	69	71390	4.572	ug/l	100
49) Toluene	7.62	92	239031	5.342	ug/l	99
50) t-1,3-Dichloropropene	7.86	75	103212	4.420	ug/l	99
51) cis-1,3-Dichloropropene	7.25	75	128772	4.595	ug/l	99
52) 1,1,2-Trichloroethane	8.05	97	68531	4.434	ug/l	95
53) 1,3-Dichloropropane	8.22	76	113824	4.347	ug/l	98
54) 2-Hexanone	8.35	43	173542	21.156	ug/l	97
55) Dibromochloromethane	8.46	129	82961	4.555	ug/l	99
56) 1,2-Dibromoethane	8.57	107	60305	4.192	ug/l	99
58) Tetrachloroethene	8.21	164	103398	5.439	ug/l	99
59) Chlorobenzene	9.10	112	258694	5.057	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.19	131	93845	4.836	ug/l	99
61) Pentachloroethane	11.08	117	75876	4.787	ug/l	96
62) Hexachloroethane	12.12	117	67837	4.486	ug/l	95
63) Ethyl Benzene	9.23	91	423541	5.152	ug/l	100
64) m/p-Xylenes	9.35	106	355699	10.795	ug/l	100
65) o-Xylene	9.76	106	165144	5.236	ug/l	99
66) Styrene	9.77	104	289413	5.435	ug/l	100
67) Bromoform	9.94	173	46458	4.670	ug/l	99
69) Isopropylbenzene	10.14	105	436484	5.383	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.43	83	85883	4.202	ug/l	99
71) 1,2,3-Trichloropropane	10.47	75	63068m	3.981	ug/l	
72) Bromobenzene	10.43	156	113710	5.301	ug/l	100
73) n-propylbenzene	10.57	120	127594	5.509	ug/l	99
74) 2-Chlorotoluene	10.64	126	114653	5.454	ug/l	99
75) 1,3,5-Trimethylbenzene	10.75	105	405477	5.592	ug/l	98
76) 4-Chlorotoluene	10.75	126	119488	5.488	ug/l	94
77) tert-Butylbenzene	11.08	119	373559	5.384	ug/l	99
78) 1,2,4-Trimethylbenzene	11.12	105	410455	5.548	ug/l	99
79) sec-Butylbenzene	11.30	105	513047	5.424	ug/l	100
80) Nitrobenzene	12.85	77	8610m	10.403	ug/l	
81) p-Isopropyltoluene	11.45	119	437137	5.653	ug/l	100
82) 1,3-Dichlorobenzene	11.40	146	237636	5.227	ug/l	99
83) 1,4-Dichlorobenzene	11.49	146	237508	5.292	ug/l	99
84) n-Butylbenzene	11.87	91	396241	5.083	ug/l	99
85) 1,2-Dichlorobenzene	11.85	146	213768	5.046	ug/l	99
86) 1,2-Dibromo-3-Chloropropan	12.64	75	11821	3.726	ug/l	97
87) 1,2,4-Trichlorobenzene	13.48	180	127807	5.061	ug/l	99
88) Hexachlorobutadiene	13.67	225	91802	5.682	ug/l	99
89) Naphthalene	13.72	128	164449	3.959	ug/l	99
90) 1,2,3-Trichlorobenzene	13.97	180	118751	4.873	ug/l	99

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.72 min Scan# 1441

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

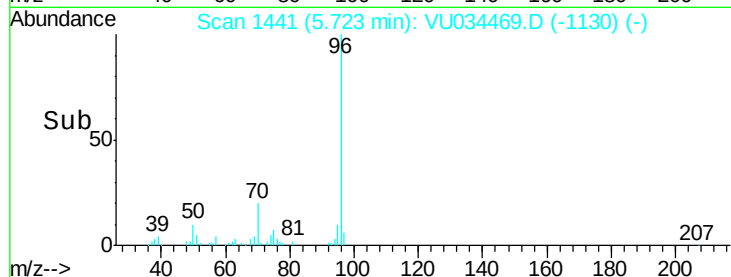
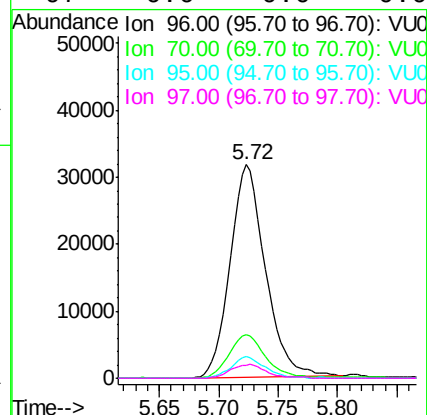
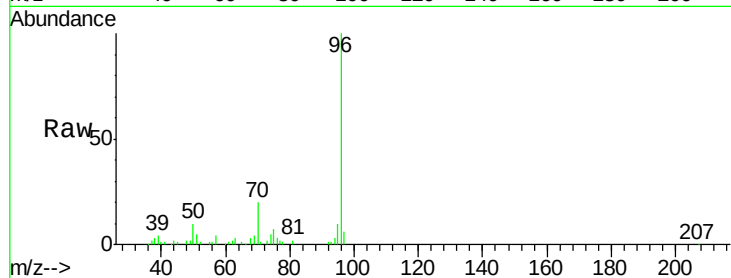
MSVOA_U

ClientSampleId :

VSTDIC005

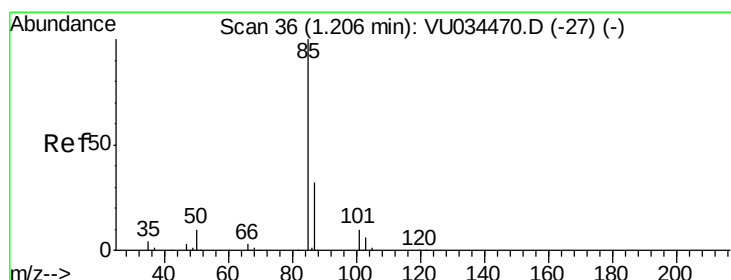
Tot Ion:	96	Resp:	65024
Ion	Ratio	Lower	Upper
96	100		
70	20.7	16.5	24.7
95	9.8	7.0	10.6
97	6.6	0.0	0.0#

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#2

Dichlorodifluoromethane

Concen: 4.329 ug/l

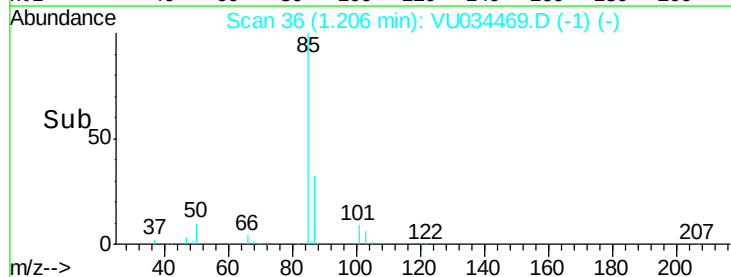
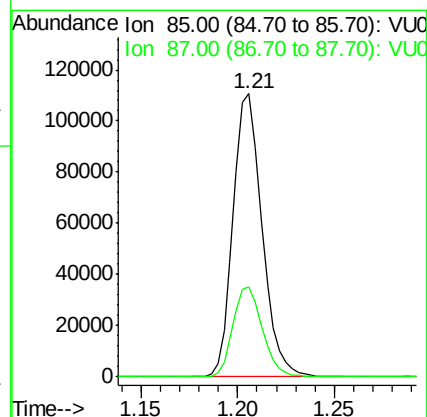
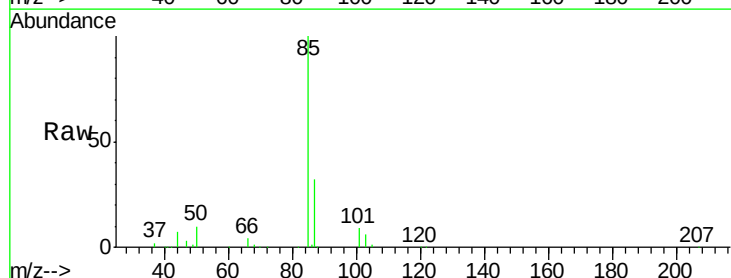
RT: 1.21 min Scan# 36

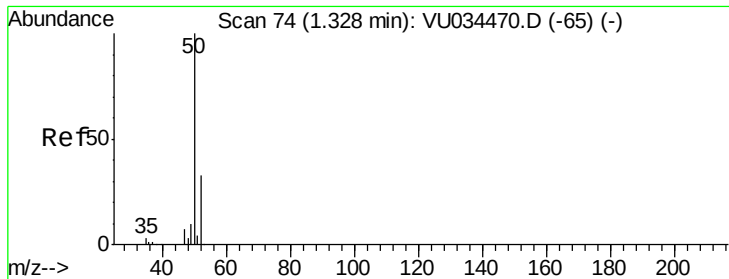
Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Tgt Ion:	85	Resp:	114732
Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.1	48.3





#3

Chloromethane

Concen: 4.317 ug/l

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

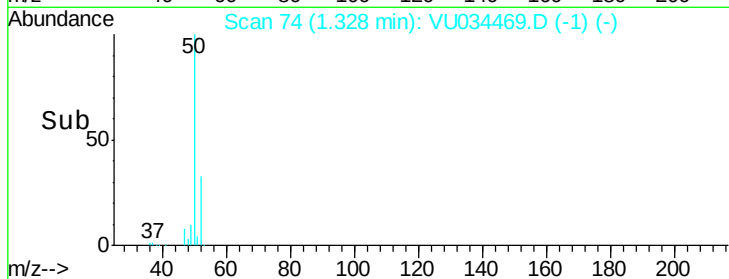
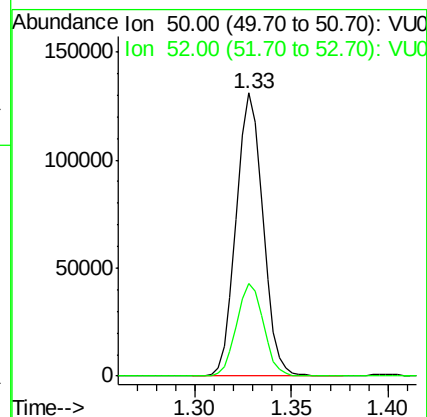
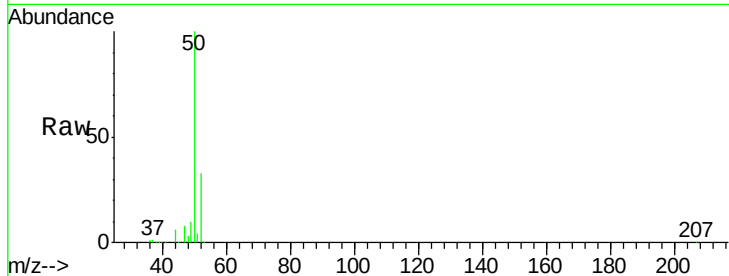
Tot Ion: 50 Resp: 125922

Ion Ratio Lower Upper

50 100

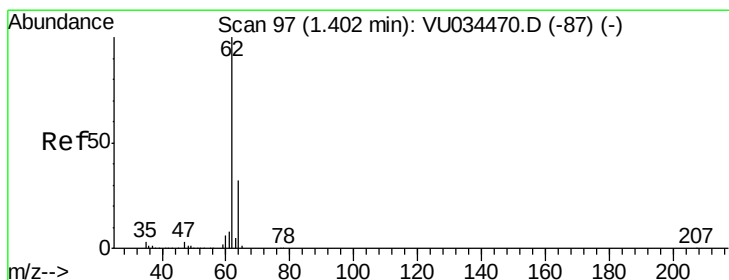
52 32.8 26.2 39.4

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#4

Vinyl Chloride

Concen: 3.936 ug/l

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU034469.D

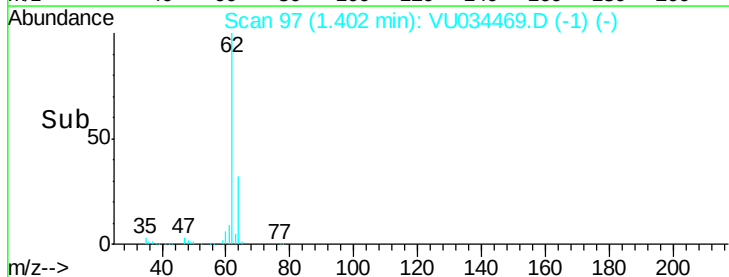
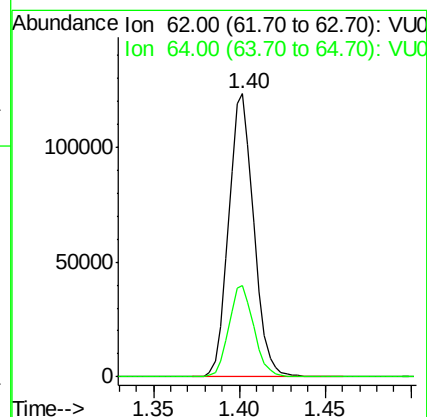
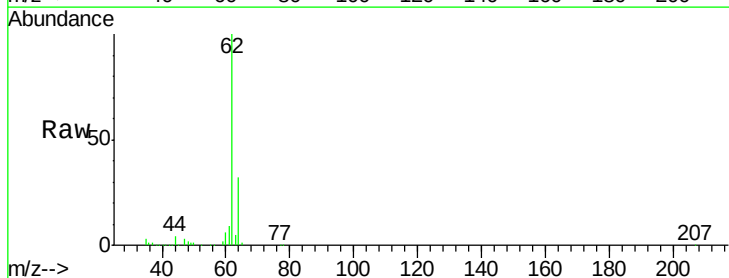
Acq: 11 Sep 2019 11:07

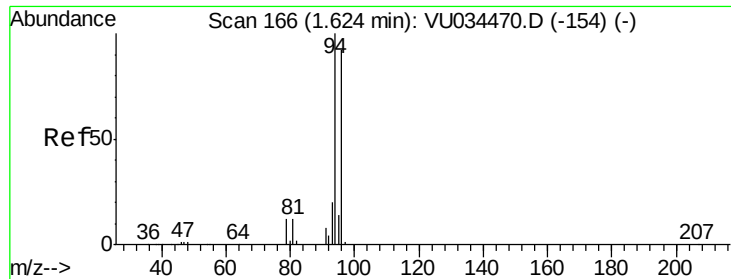
Tgt Ion: 62 Resp: 126507

Ion Ratio Lower Upper

62 100

64 32.5 25.4 38.0





#5

Bromomethane

Concen: 3.400 ug/l

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

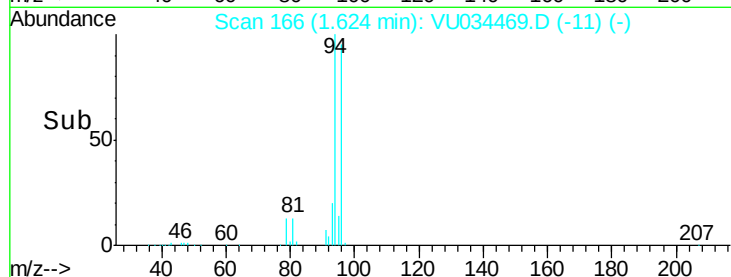
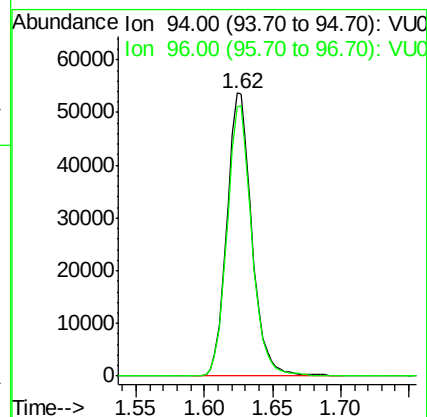
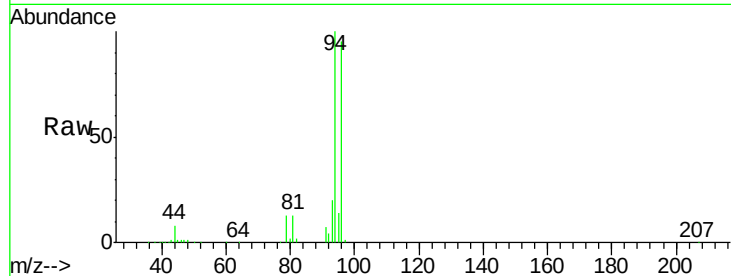
Tot Ion: 94 Resp: 68179

Ion Ratio Lower Upper

94 100

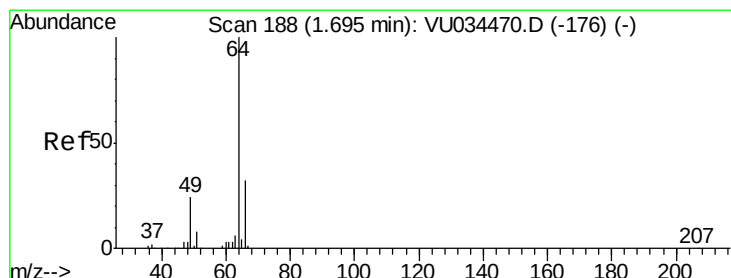
96 95.1 73.8 110.8

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#6

Chloroethane

Concen: 3.405 ug/l

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU034469.D

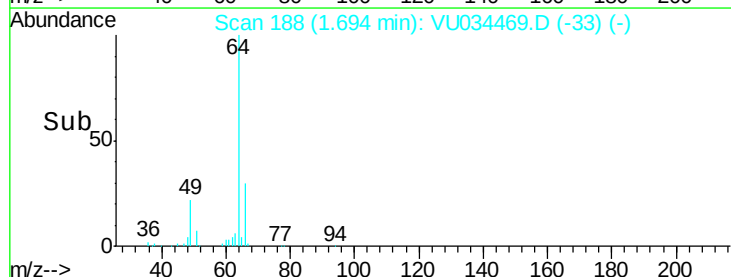
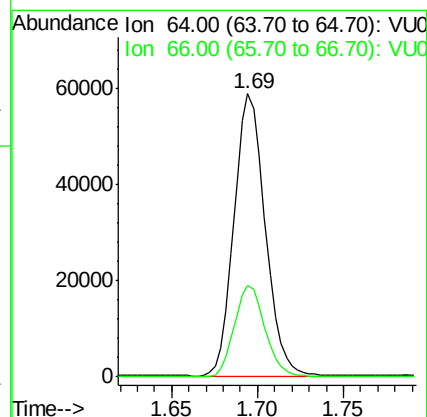
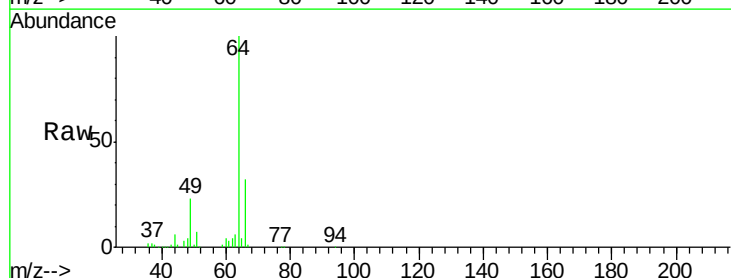
Acq: 11 Sep 2019 11:07

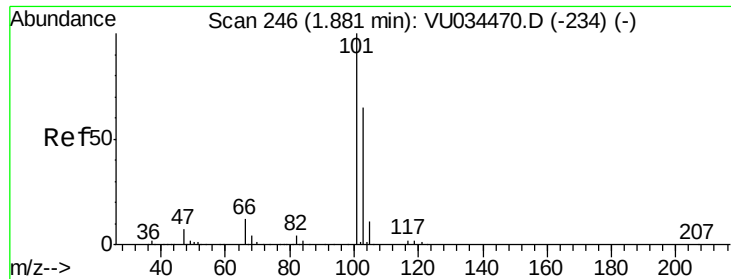
Tgt Ion: 64 Resp: 74071

Ion Ratio Lower Upper

64 100

66 32.6 25.8 38.8





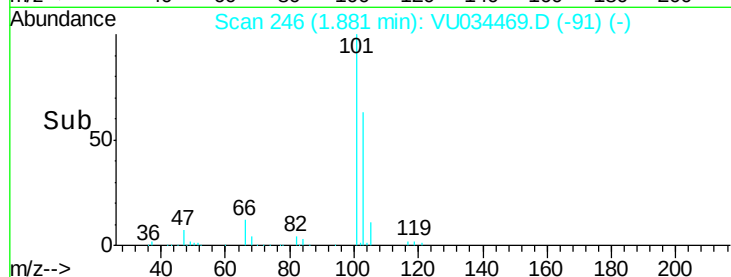
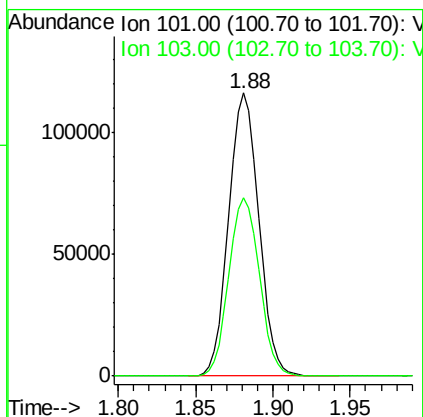
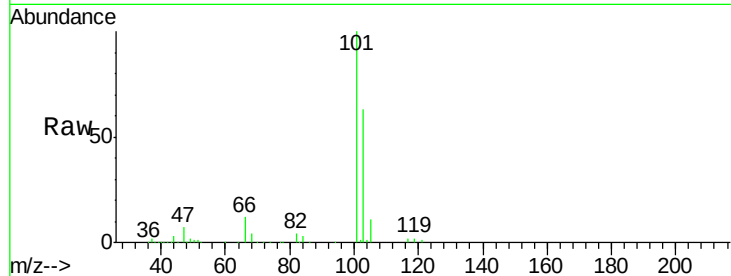
#7

Trichlorofluoromethane
Concen: 3.606 ug/l
RT: 1.88 min Scan# 246
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

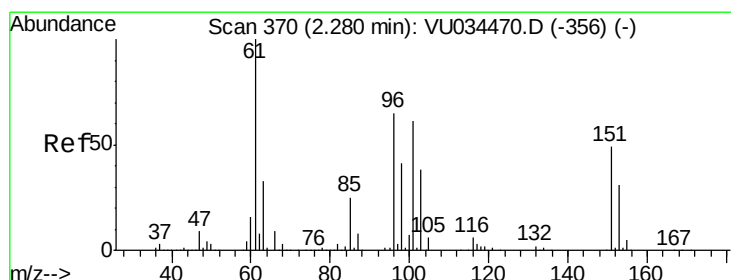
Tot Ion	Ratio	Resp	Lower	Upper
101	100	156909		
103	63.0	52.2	78.4	

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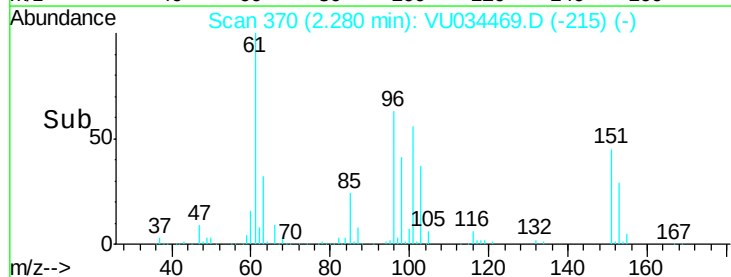
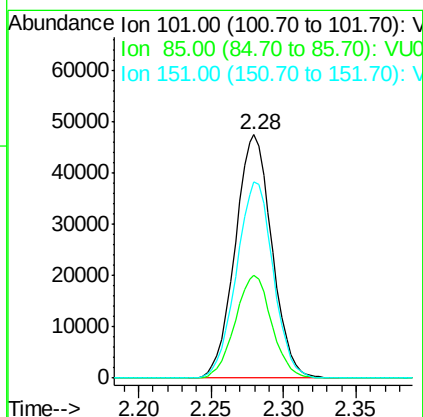
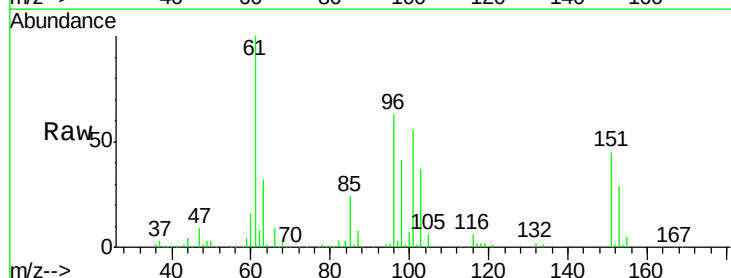
9/12/2019 4:53:26 PM

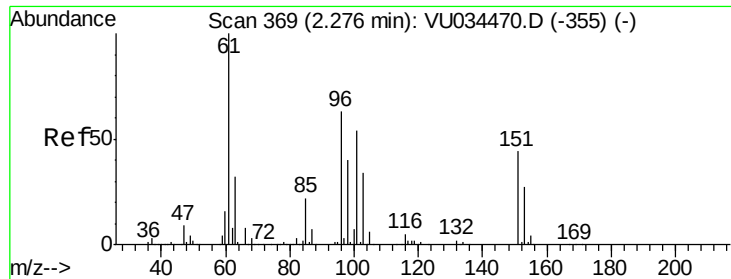


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 3.682 ug/l
RT: 2.28 min Scan# 370
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	83401		
85	42.1	34.2	51.2	
151	80.9	65.2	97.8	





#9

1,1-Dichloroethene

Concen: 3.810 ug/l

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

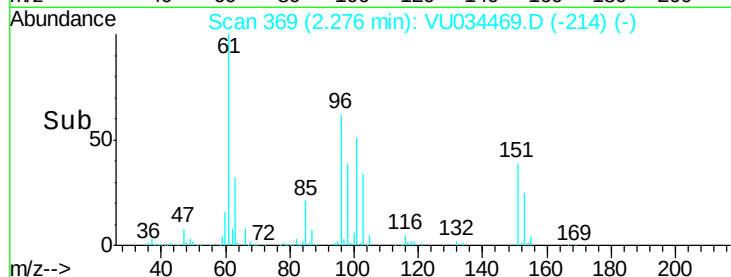
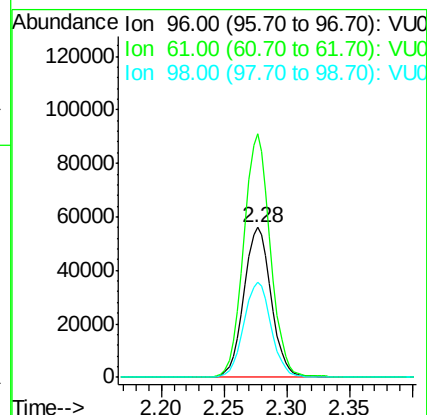
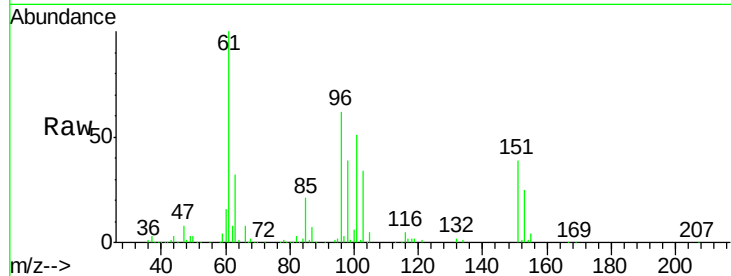
MSVOA_U

ClientSampleId :

VSTDIC005

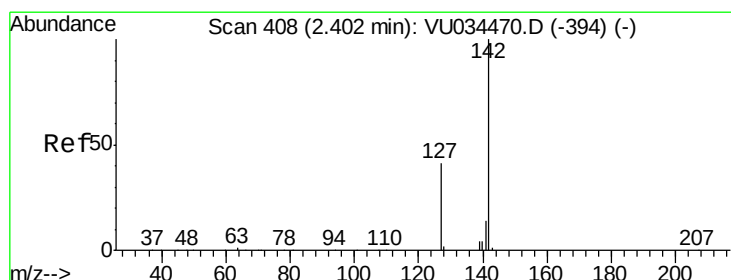
Tot Ion:	96	Resp:	85080
Ion	Ratio	Lower	Upper
96	100		
61	162.2	0.0	475.5
98	63.8	0.0	127.6

Manual Integrations
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#10

Iodomethane

Concen: 3.132 ug/l

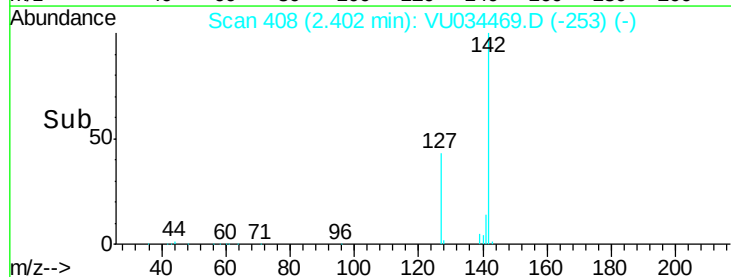
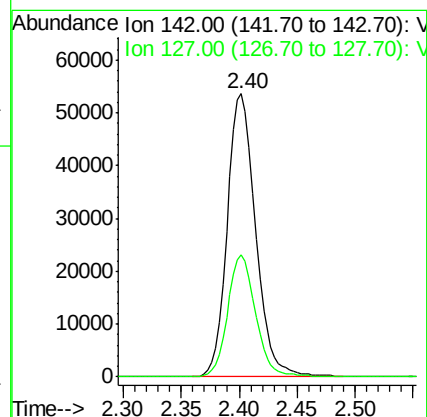
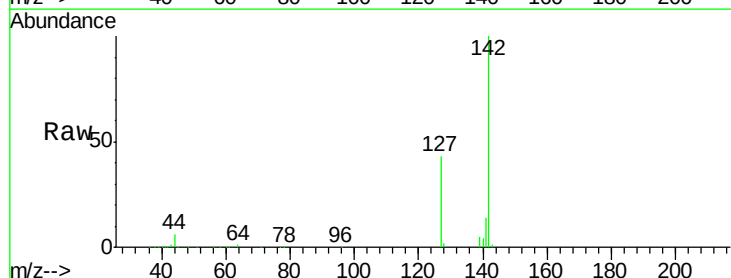
RT: 2.40 min Scan# 408

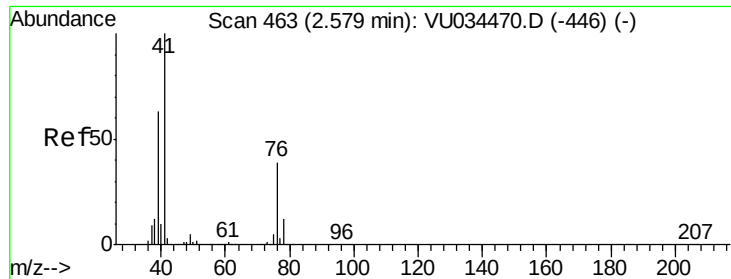
Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Tgt Ion:	142	Resp:	91407
Ion	Ratio	Lower	Upper
142	100		
127	42.3	33.0	49.6



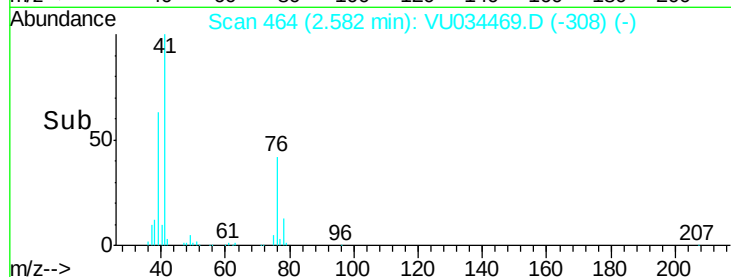
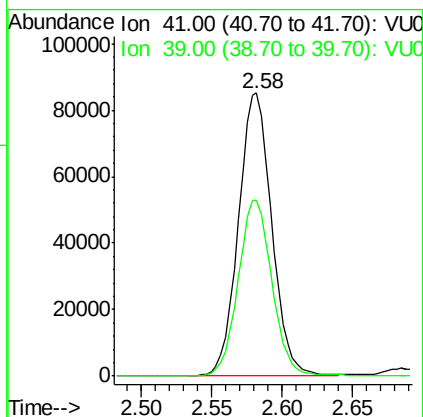
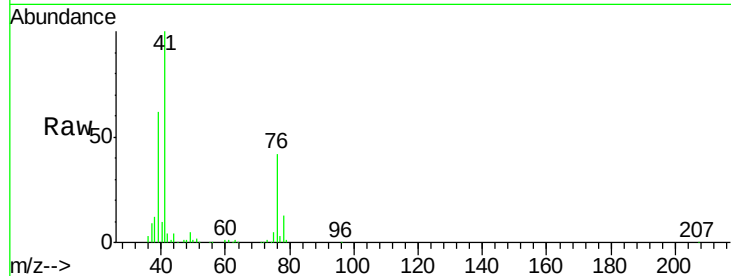


#11
Allvl Chloride
Concen: 3.807 ug/l
RT: 2.58 min Scan# 464
Delta R.T. 0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

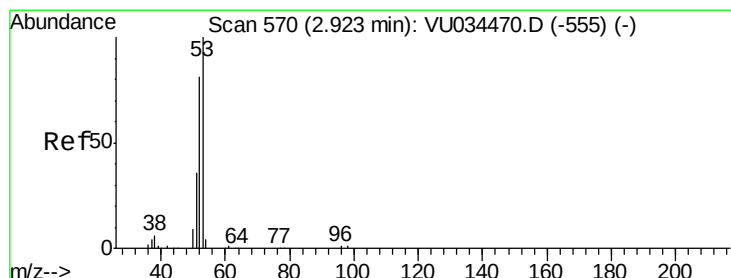
Tot Ion	Ratio	Lower	Upper
41	100		
39	62.9	50.2	75.2

Manual Integrations
APPROVED



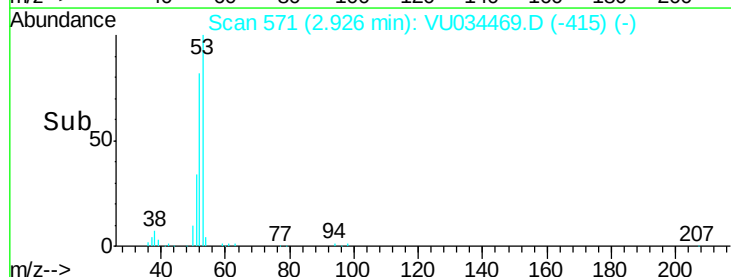
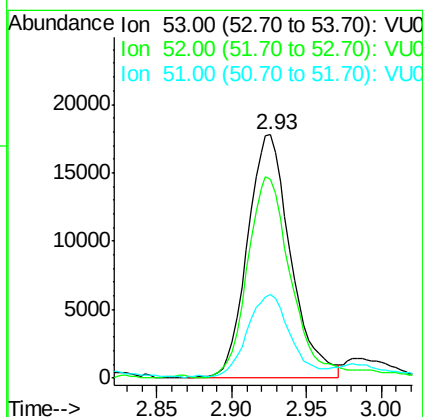
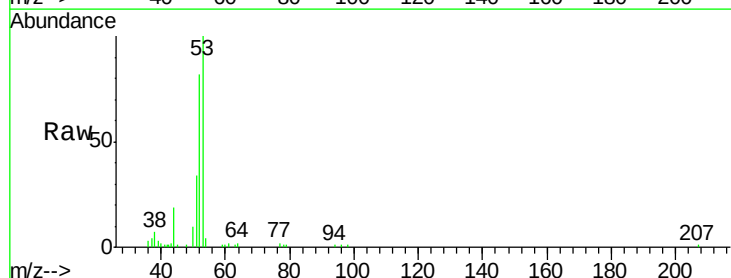
MMDadoda

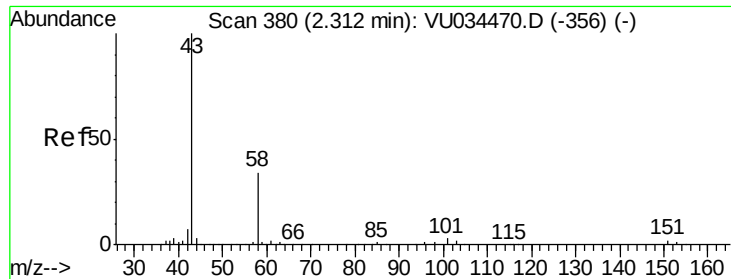
9/12/2019 4:53:26 PM



#12
Acrylonitrile
Concen: 5.887 ug/l
RT: 2.93 min Scan# 571
Delta R.T. 0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.9	100.3
51	32.7	28.4	42.6





#13

Acetone

Concen: 13.752 ug/l

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

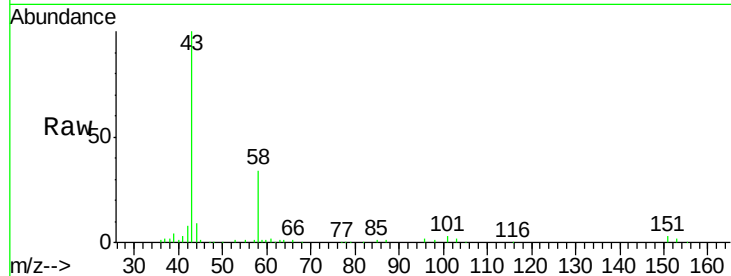
Tot Ion: 43 Resp: 71402

Ion Ratio Lower Upper

43 100

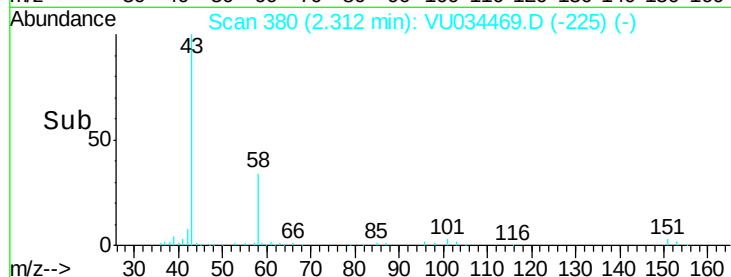
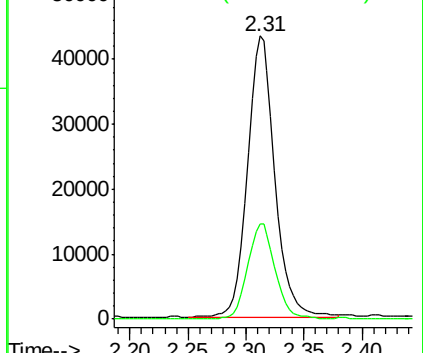
58 33.9 26.9 40.3

Manual Integrations
APPROVED



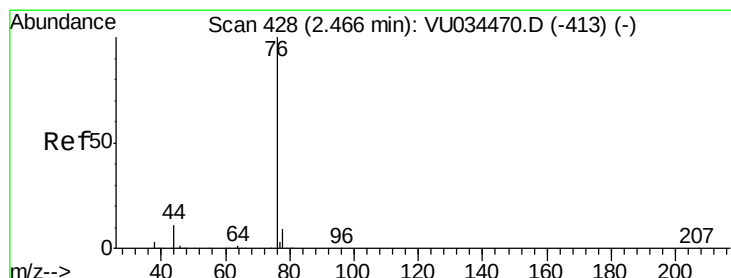
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



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#14

Carbon Disulfide

Concen: 3.523 ug/l

RT: 2.47 min Scan# 428

Delta R.T. -0.00 min

Lab File: VU034469.D

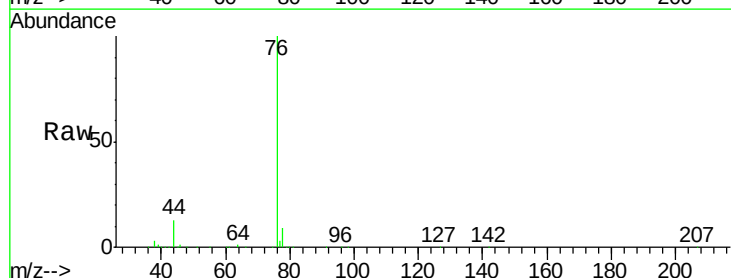
Acq: 11 Sep 2019 11:07

Tgt Ion: 76 Resp: 296545

Ion Ratio Lower Upper

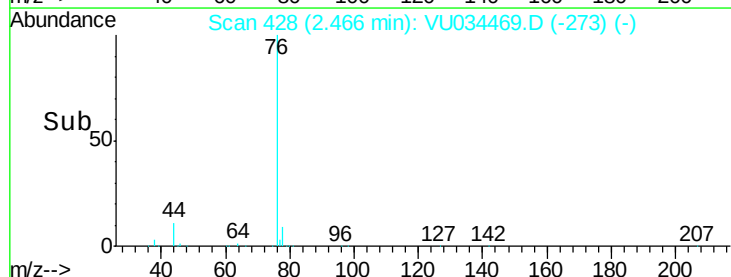
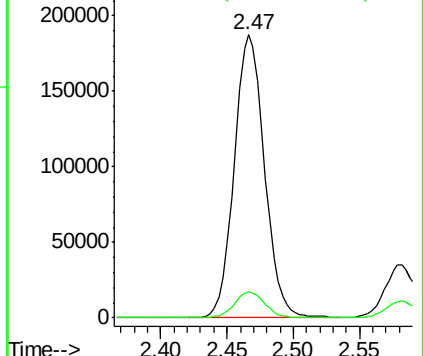
76 100

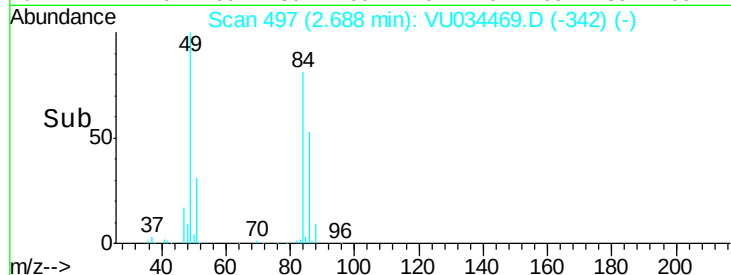
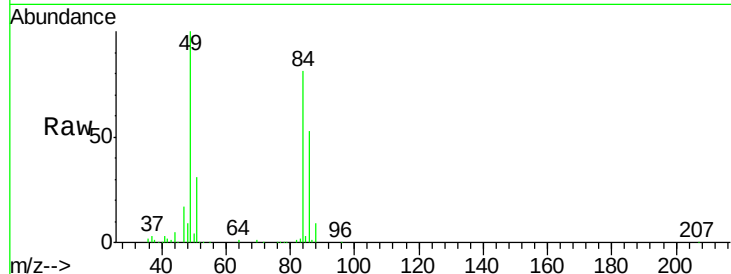
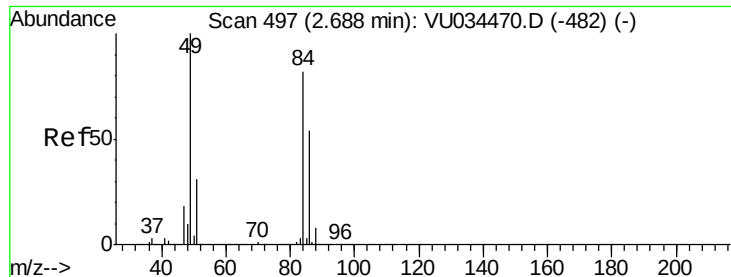
78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU0

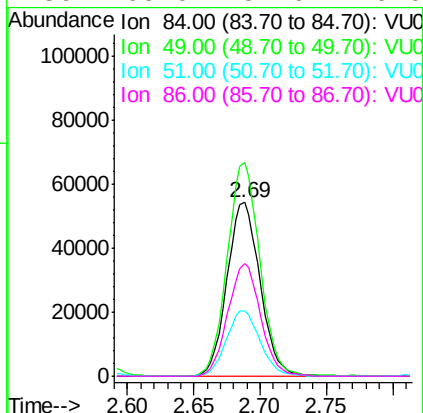
Ion 78.00 (77.70 to 78.70): VU0





#15
Methylene Chloride
Concen: 3.151 ug/l
RT: 2.69 min Scan# 497
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tot Ion:	84	Resp:	94035
Ion	Ratio	Lower	Upper
84	100		
49	122.9	97.8	146.6
51	37.7	0.0	76.4
86	65.0	52.6	79.0

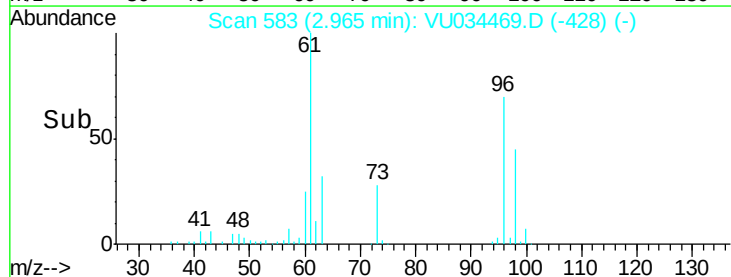
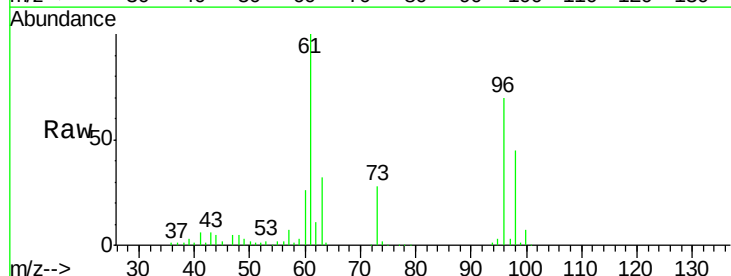
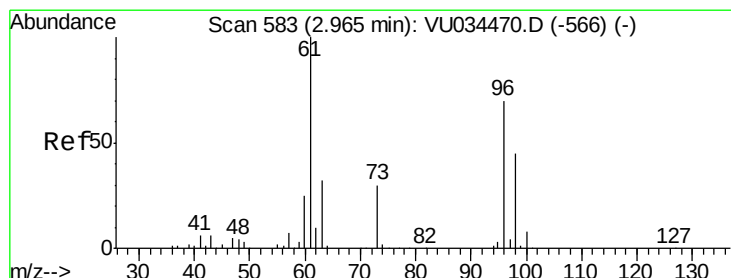


Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Manual Integrations
APPROVED

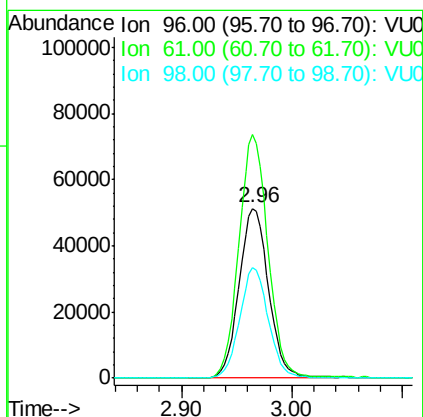
MMDadoda

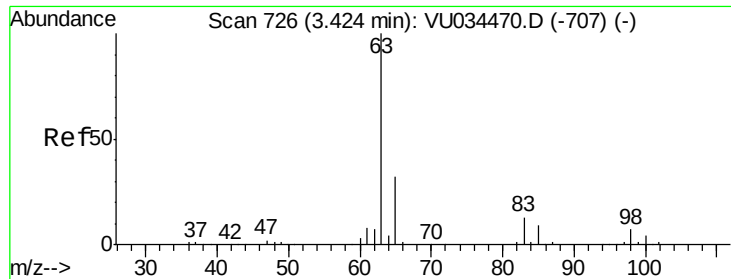
9/12/2019 4:53:26 PM



#16
trans-1,2-Dichloroethene
Concen: 3.600 ug/l
RT: 2.96 min Scan# 583
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion:	96	Resp:	94888
Ion	Ratio	Lower	Upper
96	100		
61	143.4	114.5	171.7
98	64.8	51.2	76.8



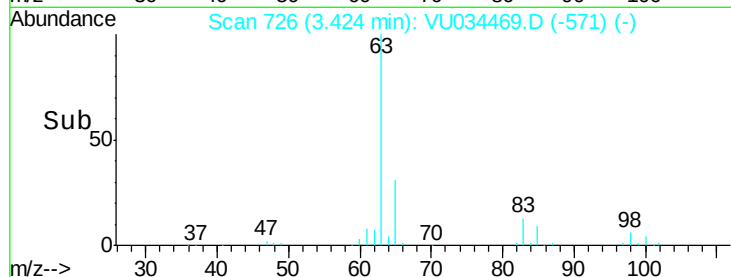
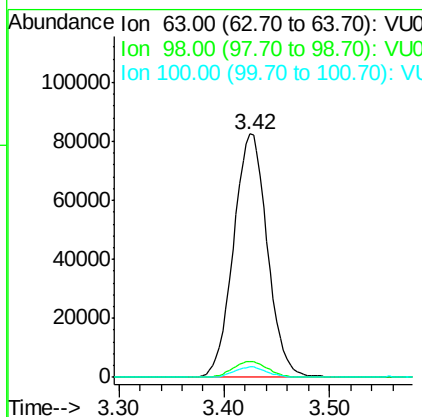
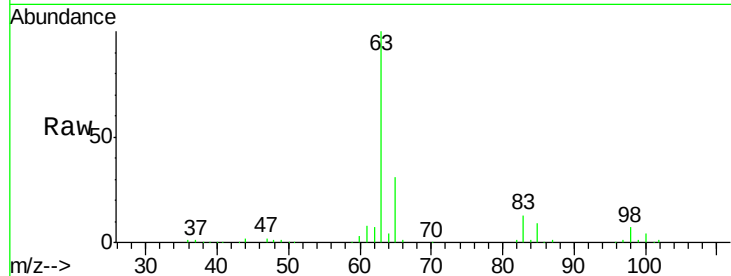


#17
 1,1-Dichloroethane
 Concen: 4.937 ug/l
 RT: 3.42 min Scan# 726
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

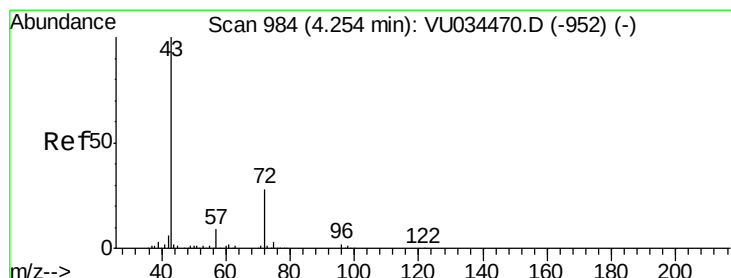
Tot Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.5	10.4
100	4.1	2.3	6.8

Manual Integrations
 APPROVED



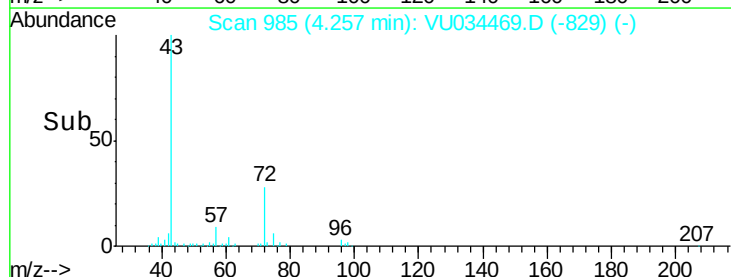
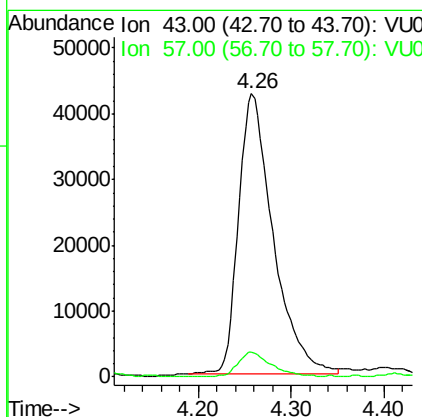
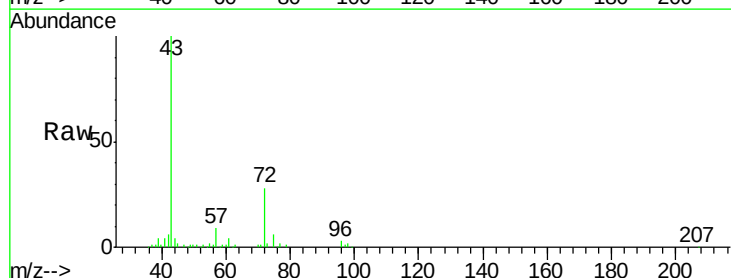
MMDadoda

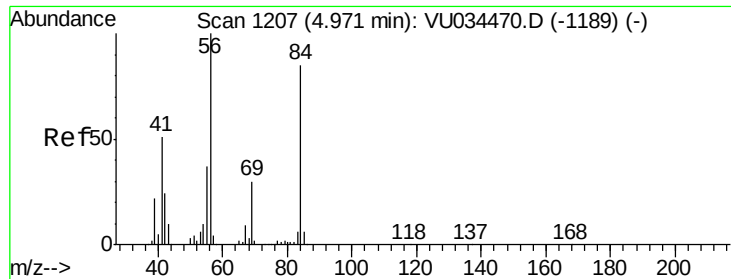
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#18
 2-Butanone
 Concen: 21.488 ug/l
 RT: 4.26 min Scan# 985
 Delta R.T. 0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.7	0.0	17.8



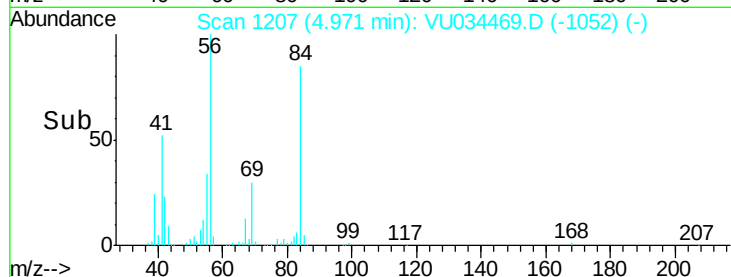
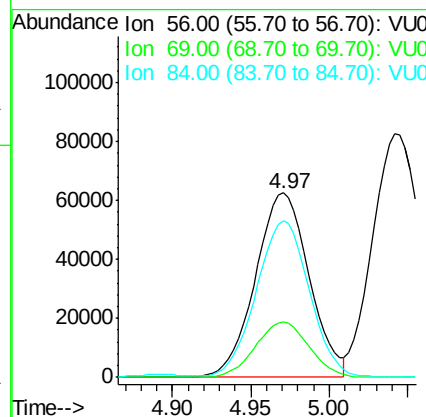
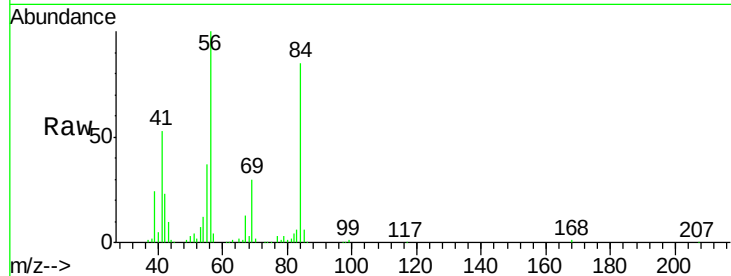


#19
Cyclohexane
Concen: 5.384 ug/l m
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

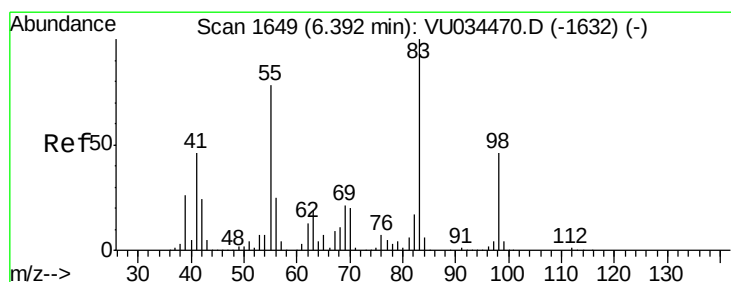
Tot Ion	Ratio	Lower	Upper
56	100		
69	30.0	24.4	36.6
84	82.8	66.9	100.3

Manual Integrations
APPROVED



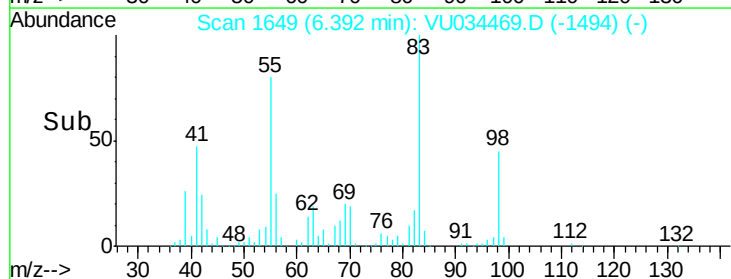
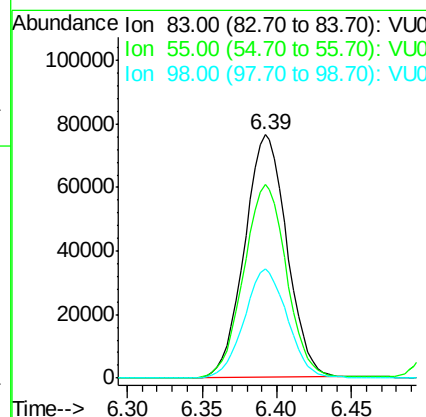
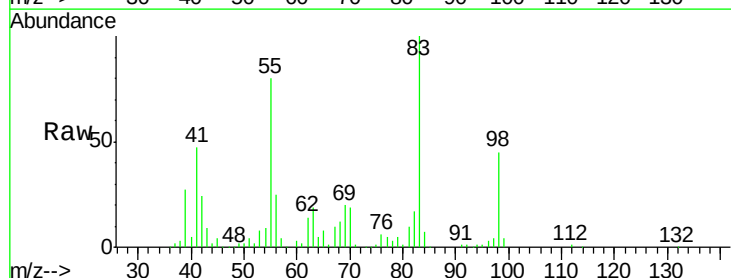
MMDadoda

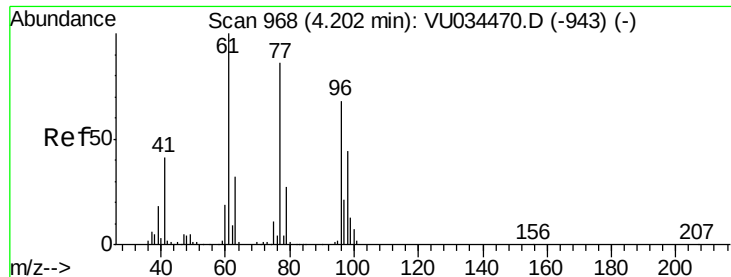
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#20
Methylcyclohexane
Concen: 5.393 ug/l
RT: 6.39 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Lower	Upper
83	100		
55	80.4	61.7	92.5
98	45.6	36.0	54.0



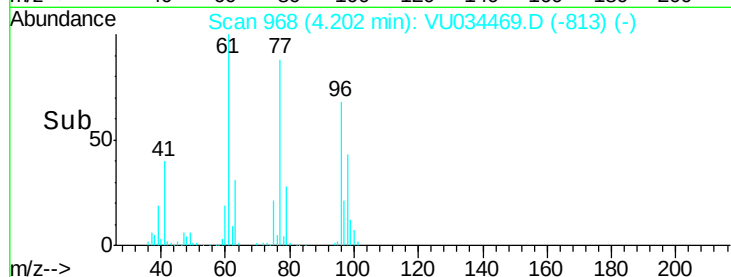
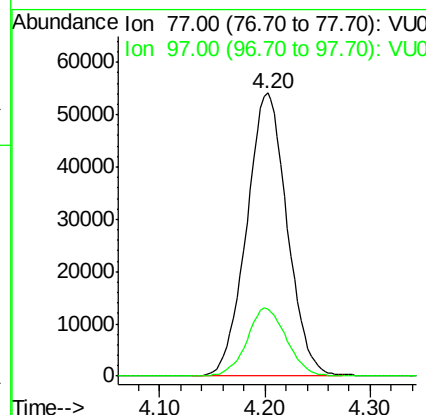
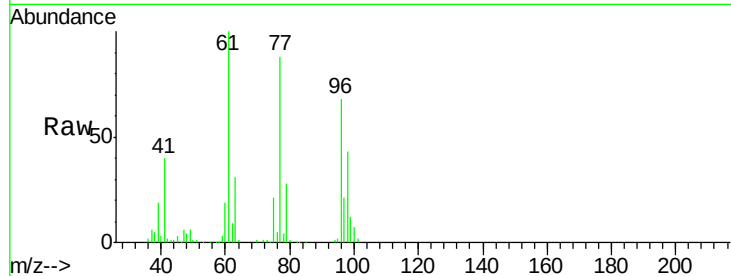


#21
 2,2-Dichloropropane
 Concen: 4.578 ug/l
 RT: 4.20 min Scan# 968
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

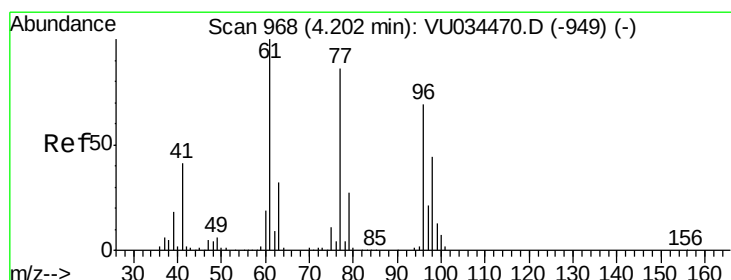
Tot Ion: 77 Resp: 144676
 Ion Ratio Lower Upper
 77 100
 97 23.5 18.9 28.3

Manual Integrations
 APPROVED



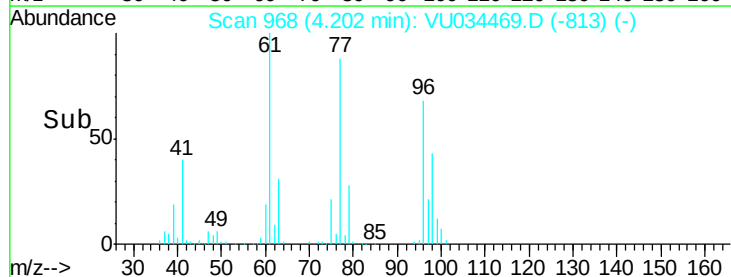
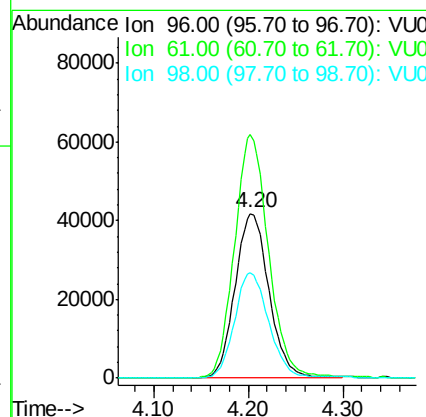
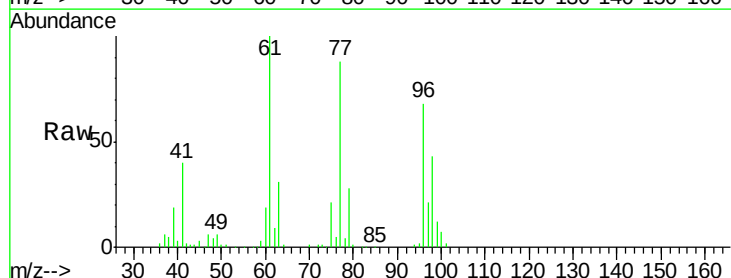
MMDadoda

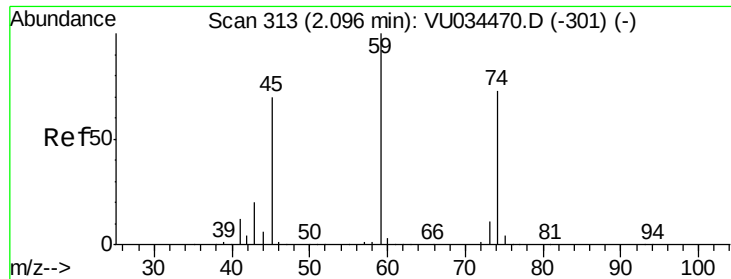
9/12/2019 4:53:26 PM



#22
 cis-1,2-Dichloroethene
 Concen: 4.989 ug/l
 RT: 4.20 min Scan# 968
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Tgt Ion: 96 Resp: 104677
 Ion Ratio Lower Upper
 96 100
 61 147.8 0.0 369.5
 98 64.3 32.4 97.2



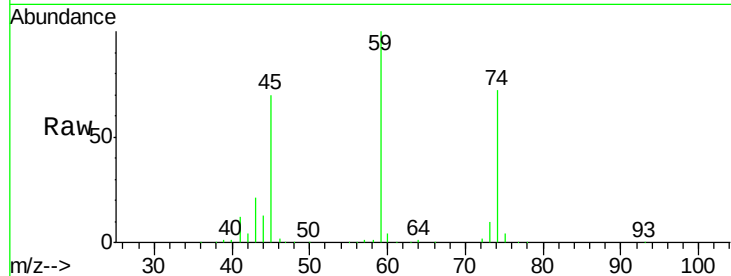


#23
Diethyl Ether
Concen: 3.404 ug/l
RT: 2.10 min Scan# 313
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
45	70.1	56.3	84.5
74	73.8	58.2	87.2

Manual Integrations
APPROVED

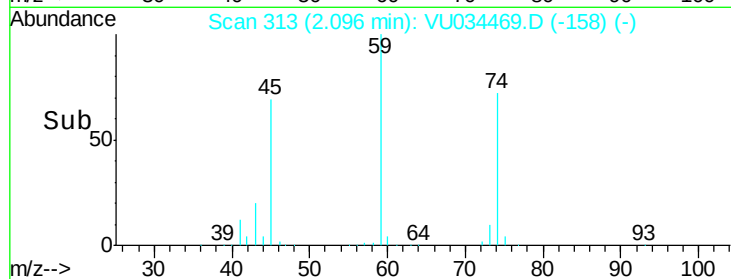
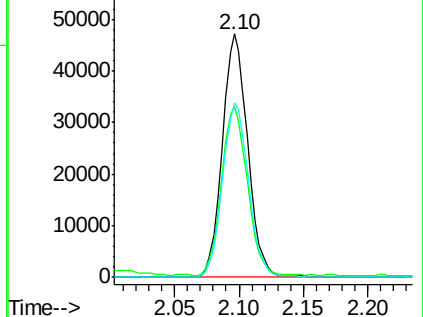


Abundance

Ion 59.00 (58.70 to 59.70): VU034469.D (-158) (-)

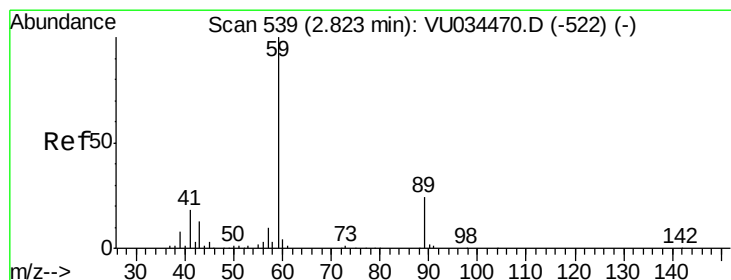
Ion 45.00 (44.70 to 45.70): VU034469.D (-158) (-)

Ion 74.00 (73.70 to 74.70): VU034469.D (-158) (-)



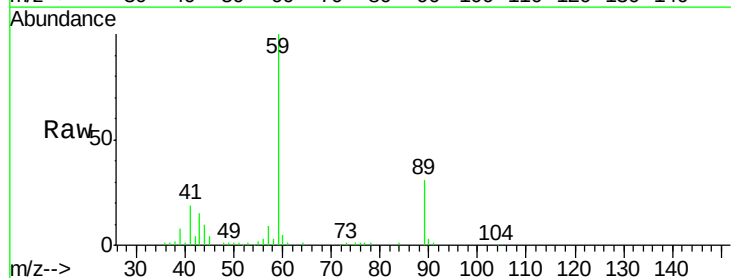
MMDadoda

9/12/2019 4:53:26 PM



#24
tert-Butyl Alcohol
Concen: 24.507 ug/l
RT: 2.82 min Scan# 539
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

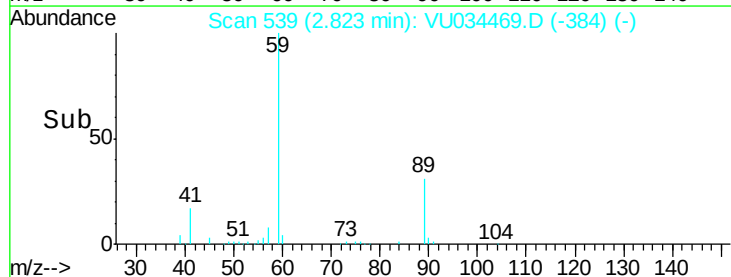
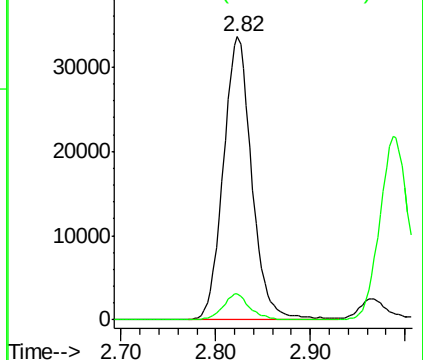
Tgt Ion	Ratio	Lower	Upper
59	100		
57	8.7	7.3	10.9

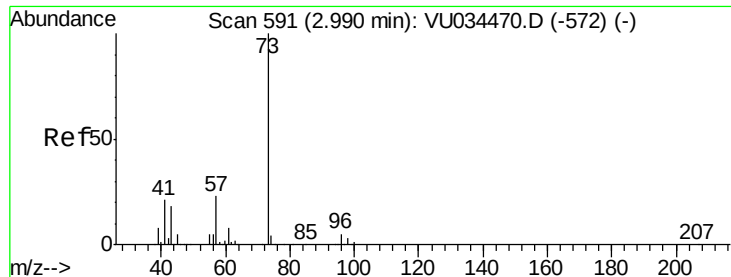


Abundance

Ion 59.00 (58.70 to 59.70): VU034469.D (-384) (-)

Ion 57.00 (56.70 to 57.70): VU034469.D (-384) (-)





#25

Methyl tert-Butyl Ether

Concen: 3.271 ug/l

RT: 2.99 min Scan# 590

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

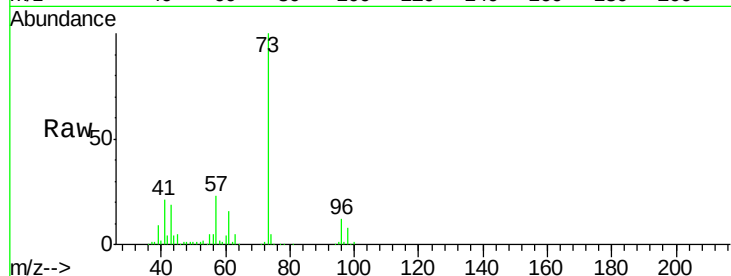
Tot Ion: 73 Resp: 205399

Ion Ratio Lower Upper

73 100

43 18.4 14.4 21.6

Manual Integrations
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Abundance Ion 73.00 (72.70 to 73.70): VU034470.D (-572) (-)

Ion 43.00 (42.70 to 43.70): VU034470.D (-572) (-)

2.99

100000

80000

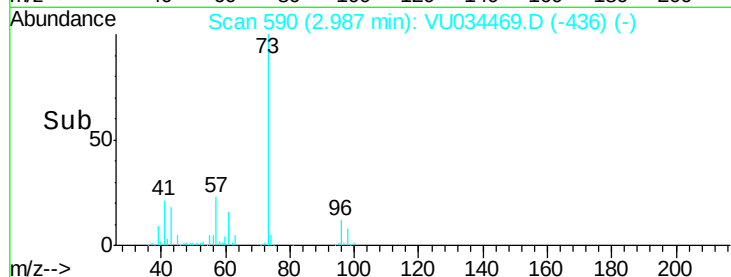
60000

40000

20000

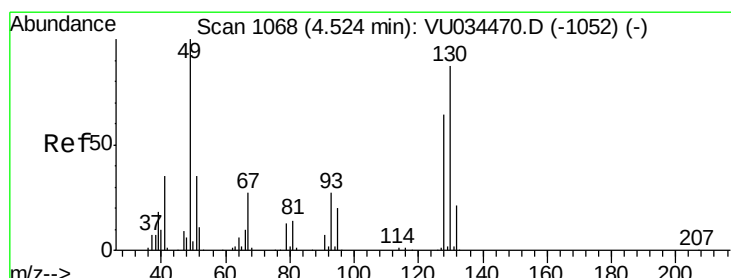
0

Time--> 2.90 2.95 3.00 3.05



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#26

Bromochloromethane

Concen: 4.852 ug/l

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

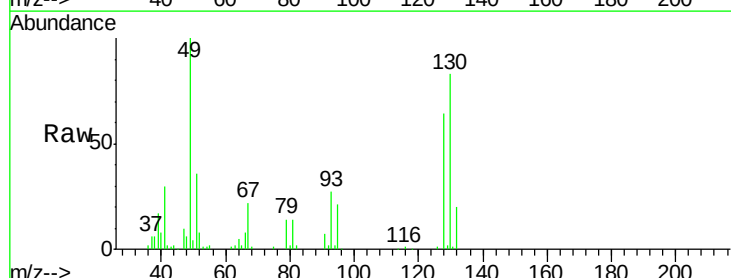
Tgt Ion: 128 Resp: 44360

Ion Ratio Lower Upper

128 100

49 157.0 0.0 309.8

130 130.0 105.0 157.6



Abundance Ion 128.00 (127.70 to 128.70): VU034470.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU034470.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU034470.D (-1052) (-)

4.52

40000

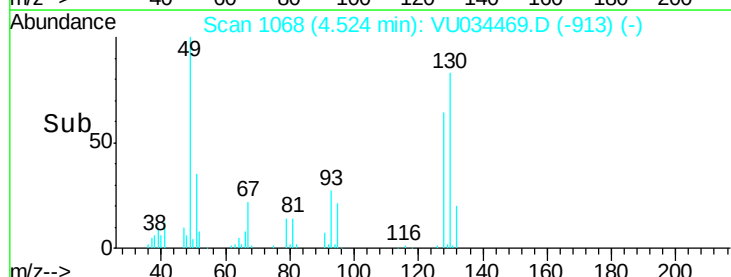
30000

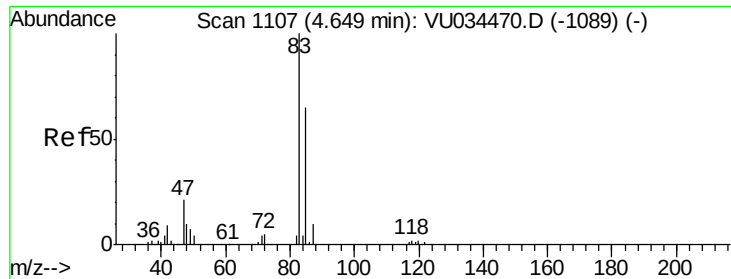
20000

10000

0

Time--> 4.45 4.50 4.55 4.60



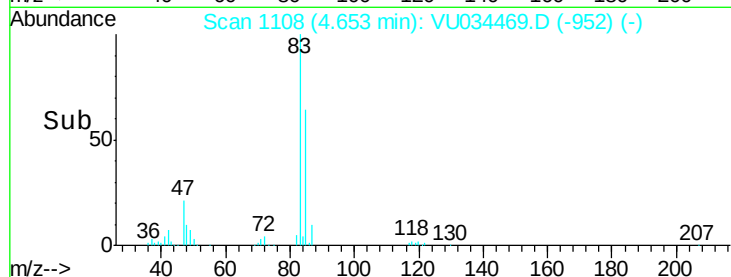
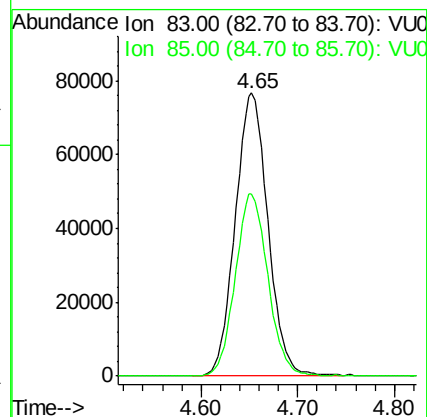
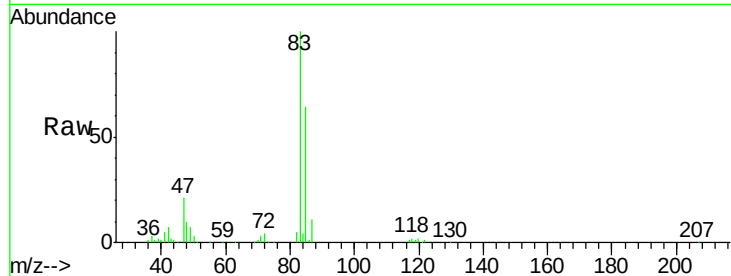


#27
Chloroform
Concen: 4.302 ug/l
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

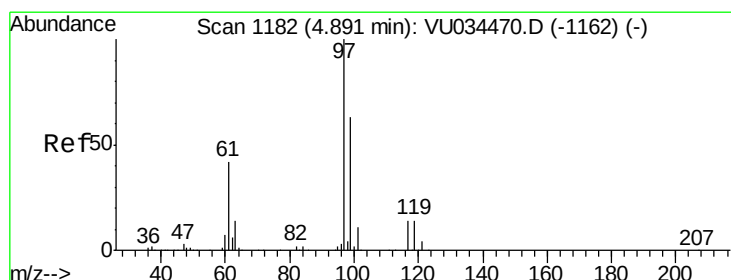
Tot Ion	83	Resp	180135
Ion Ratio	100	Lower	Upper
85	64.2	0.0	130.2

Manual Integrations
APPROVED



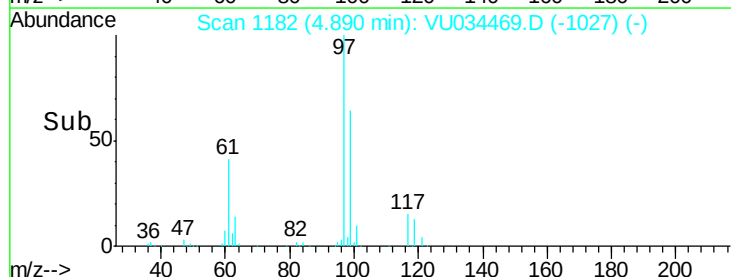
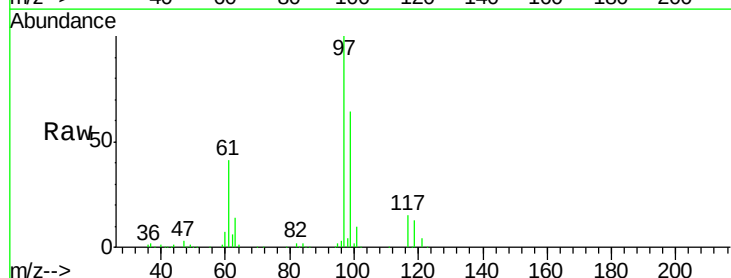
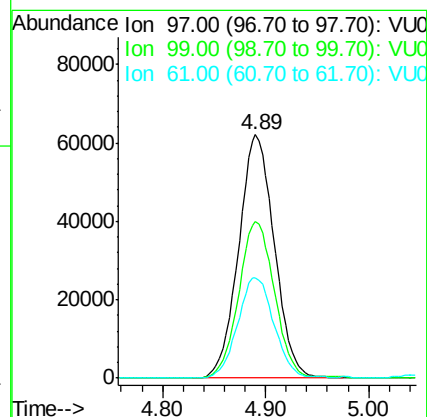
MMDadoda

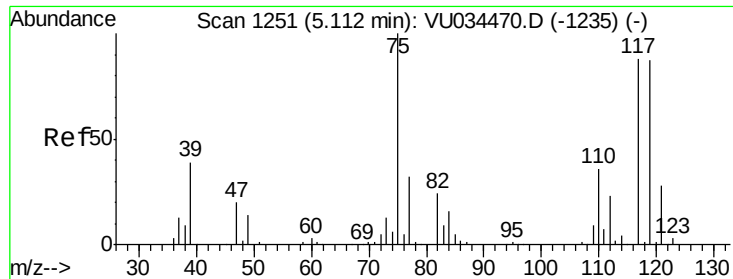
9/12/2019 4:53:26 PM



#28
1,1,1-Trichloroethane
Concen: 4.618 ug/l
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	97	Resp	149503
Ion Ratio	100	Lower	Upper
99	64.0	32.0	96.2
61	42.1	21.4	64.3



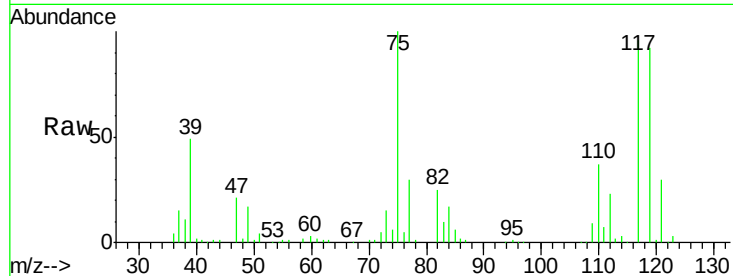


#29
1,1-Dichloropropene
Concen: 4.930 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

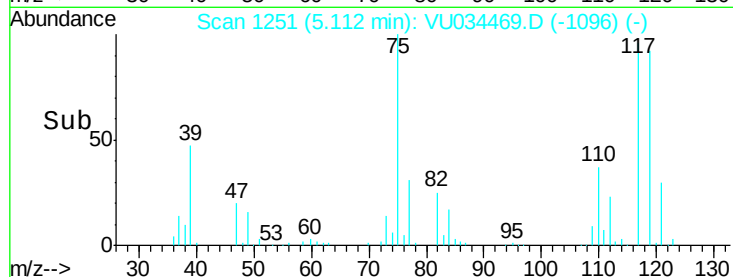
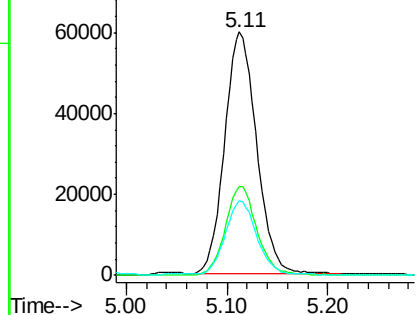
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
110	36.3	18.4	55.2
77	29.0	25.0	37.6

Manual Integrations
APPROVED

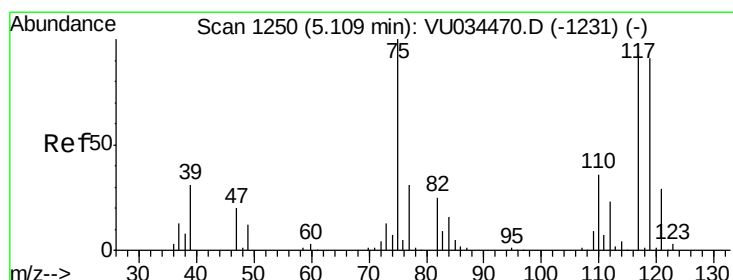


Abundance Ion 75.00 (74.70 to 75.70): VU034470.D (-1235) (-)
Ion 110.00 (109.70 to 110.70): VU034470.D (-1235) (-)
Ion 77.00 (76.70 to 77.70): VU034470.D (-1235) (-)



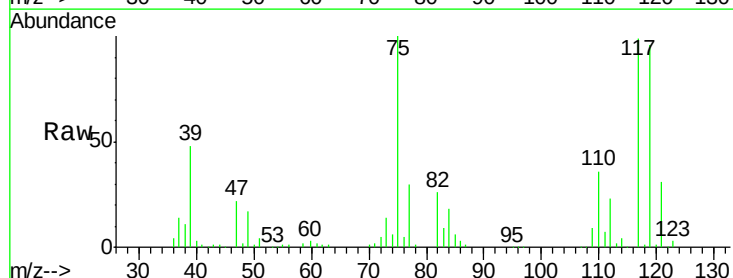
MMDadoda

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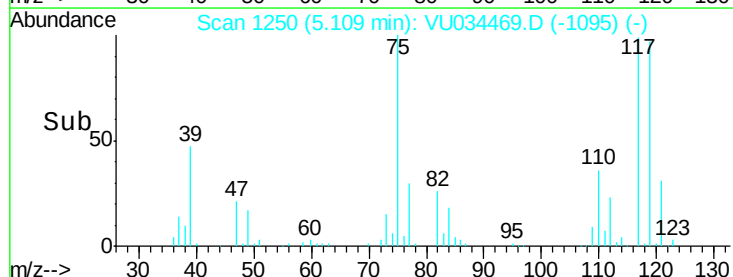
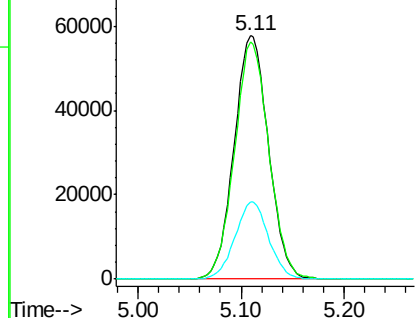


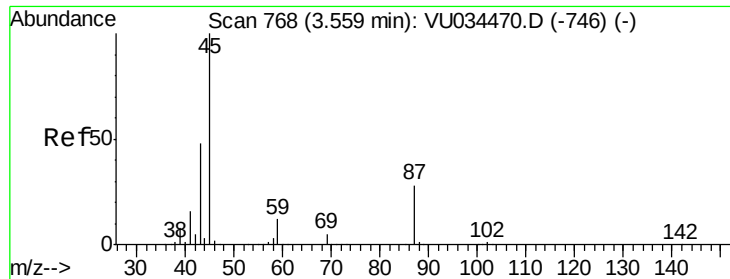
#30
Carbon Tetrachloride
Concen: 4.684 ug/l
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.5	78.5	117.7
121	31.7	25.3	37.9



Abundance Ion 117.00 (116.70 to 117.70): VU034470.D (-1231) (-)
Ion 119.00 (118.70 to 119.70): VU034470.D (-1231) (-)
Ion 121.00 (120.70 to 121.70): VU034470.D (-1231) (-)





#31

Isopropyl Ether

Concen: 5.476 ug/l

RT: 3.56 min Scan# 768

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

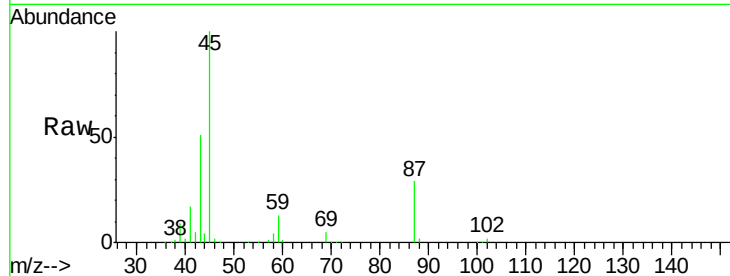
Tot Ion: 45 Resp: 263154

Ion Ratio Lower Upper

45 100

43 50.2 24.8 74.3

Manual Integrations
APPROVED



Abundance Ion 45.00 (44.70 to 45.70): VU034470.D (-746) (-)

Ion 43.00 (42.70 to 43.70): VU034470.D (-746) (-)

3.56

120000

100000

80000

60000

40000

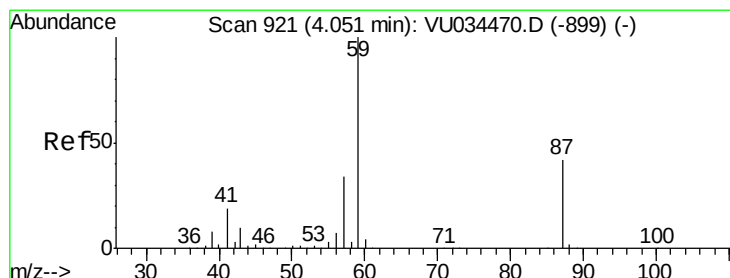
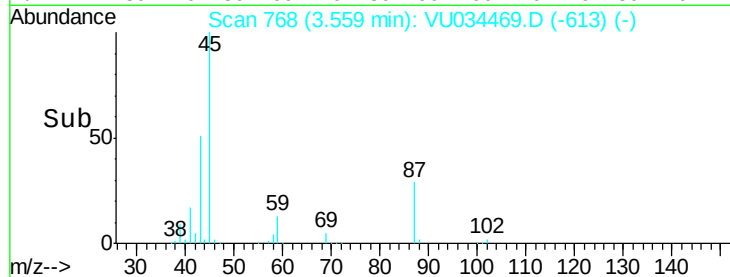
20000

0

Time--> 3.40 3.50 3.60 3.70

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#32

Ethyl-t-butyl ether

Concen: 4.957 ug/l

RT: 4.05 min Scan# 922

Delta R.T. 0.00 min

Lab File: VU034469.D

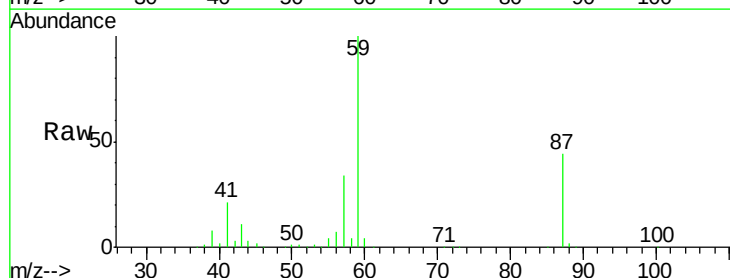
Acq: 11 Sep 2019 11:07

Tgt Ion: 59 Resp: 223963

Ion Ratio Lower Upper

59 100

87 42.7 33.6 50.4



Abundance Ion 59.00 (58.70 to 59.70): VU034470.D (-899) (-)

Ion 87.00 (86.70 to 87.70): VU034470.D (-899) (-)

4.05

80000

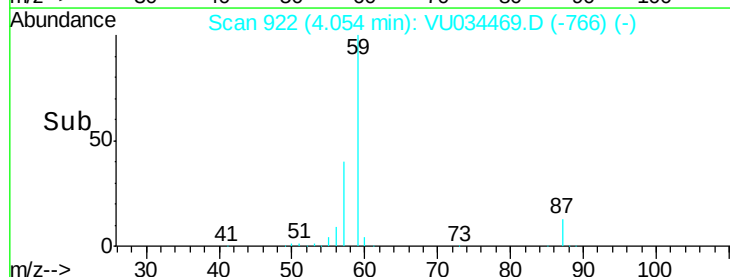
60000

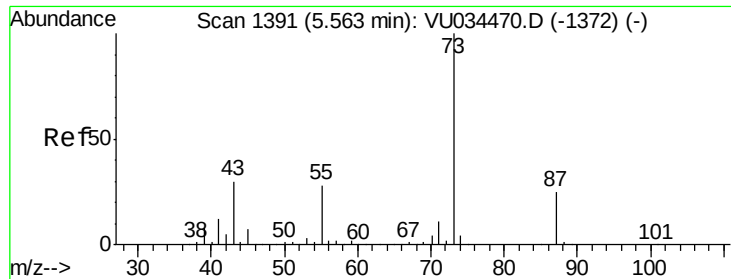
40000

20000

0

Time--> 4.00 4.10



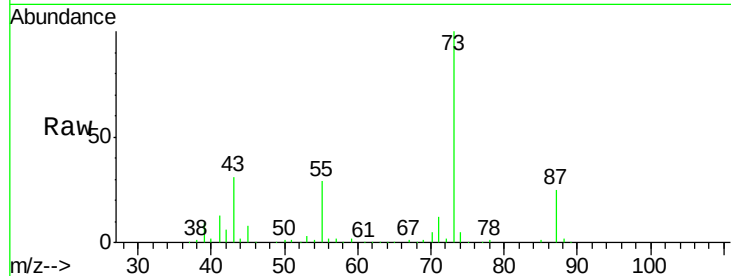


#33
Tert-Butyl methyl ether
Concen: 4.840 ug/l
RT: 5.56 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

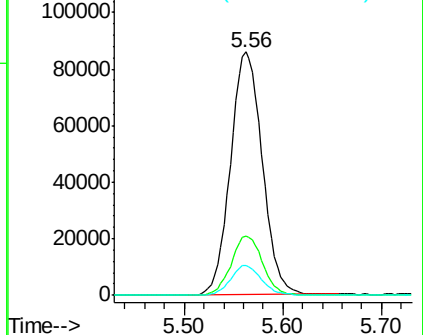
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
87	24.1	19.4	29.0
71	12.1	9.3	13.9

Manual Integrations
APPROVED

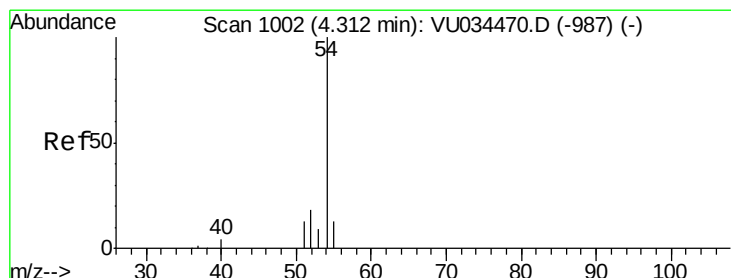
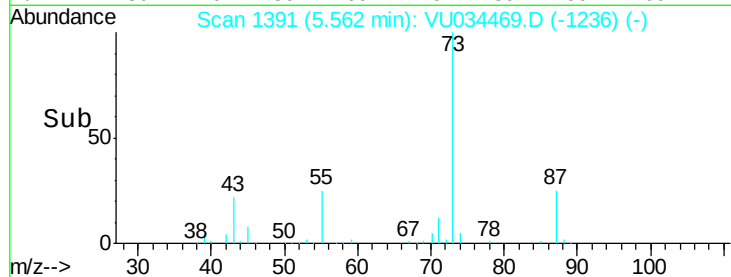


Abundance Ion 73.00 (72.70 to 73.70): VU034470.D (-1372) (-)
Ion 87.00 (86.70 to 87.70): VU034470.D (-1372) (-)
Ion 71.00 (70.70 to 71.70): VU034470.D (-1372) (-)



MMDadoda

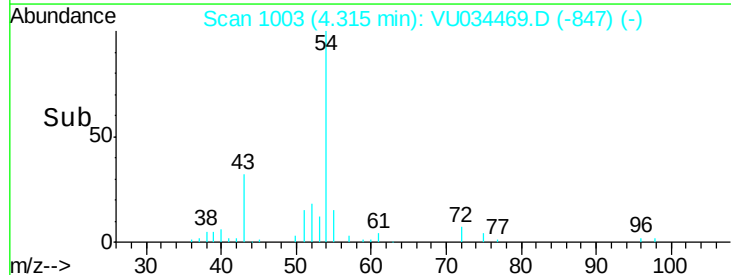
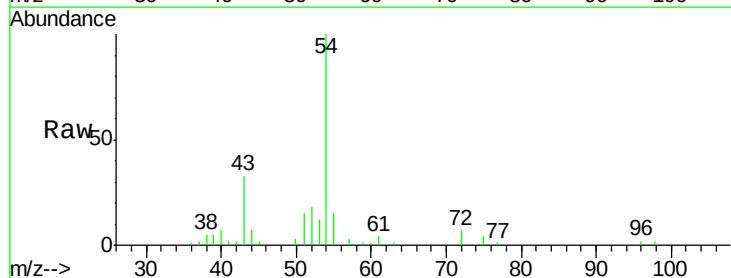
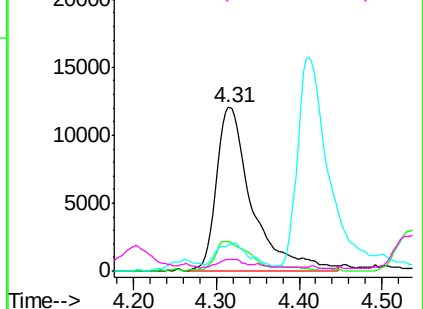
9/12/2019 4:53:26 PM

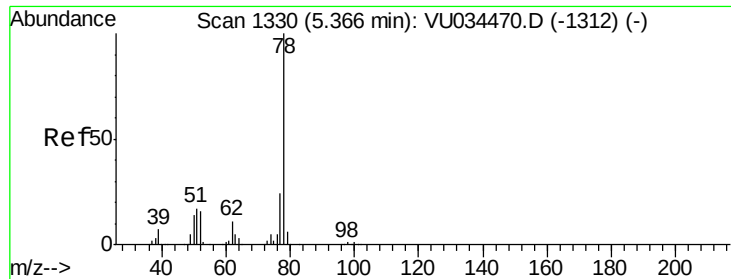


#34
Propionitrile
Concen: 24.617 ug/l
RT: 4.31 min Scan# 1003
Delta R.T. 0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Lower	Upper
54	100		
52	17.4	14.1	21.1
55	12.4	13.3	19.9#
40	3.8	3.8	5.8#

Abundance Ion 54.00 (53.70 to 54.70): VU034470.D (-987) (-)
Ion 52.00 (51.70 to 52.70): VU034470.D (-987) (-)
Ion 55.00 (54.70 to 55.70): VU034470.D (-987) (-)
Ion 40.00 (39.70 to 40.70): VU034470.D (-987) (-)





#35

Benzene

Concen: 5.074 ug/l

RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 78 Resp: 396355

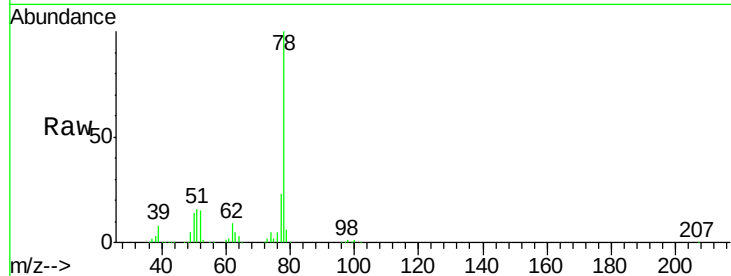
Ion Ratio Lower Upper

78 100

77 23.1 19.3 28.9

Manual Integrations

APPROVED



Abundance Ion 78.10 (77.80 to 78.80): VU034470.D (-1312) (-)

Ion 77.00 (76.70 to 77.70): VU034470.D (-1312) (-)

5.37

200000

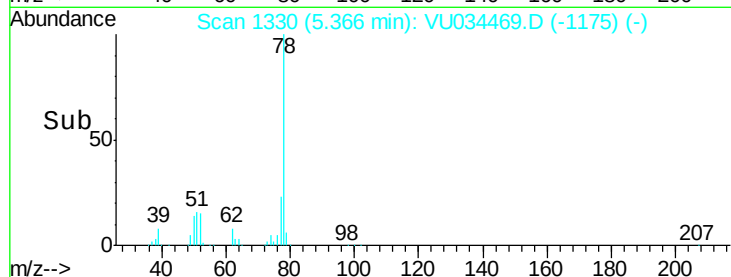
150000

100000

50000

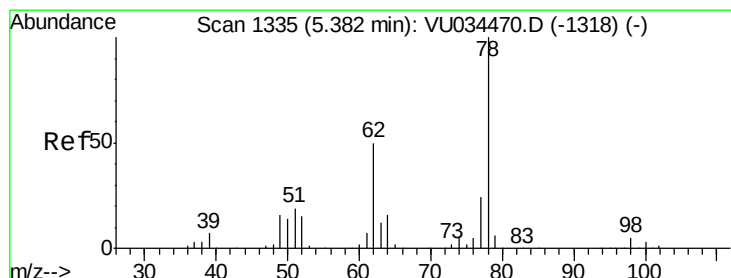
0

Time-->



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#36

1,2-Dichloroethane

Concen: 3.989 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU034469.D

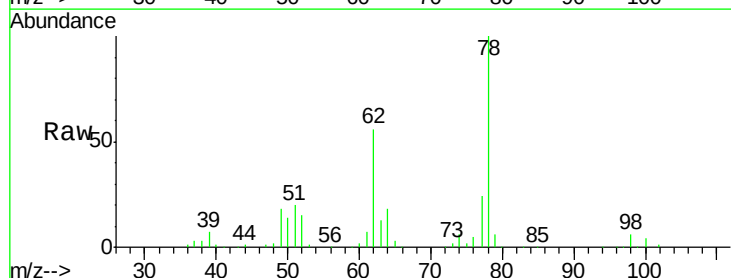
Acq: 11 Sep 2019 11:07

Tgt Ion: 62 Resp: 99979

Ion Ratio Lower Upper

62 100

98 10.1 8.0 12.0



Abundance Ion 62.00 (61.70 to 62.70): VU034470.D (-1318) (-)

Ion 98.00 (97.70 to 98.70): VU034470.D (-1318) (-)

5.39

50000

40000

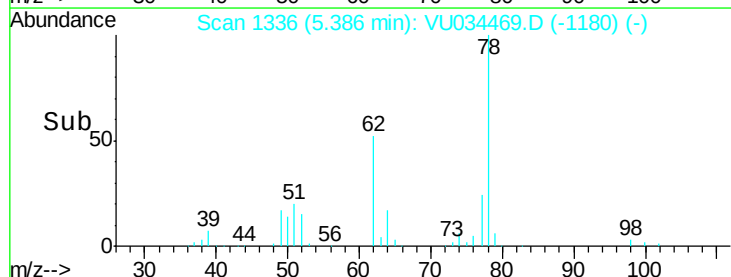
30000

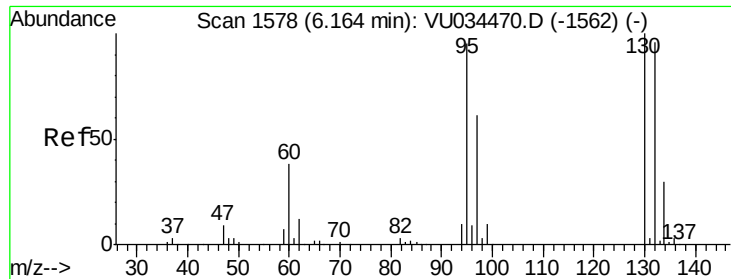
20000

10000

0

Time-->





#37

Trichloroethene

Concen: 5.138 ug/l

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

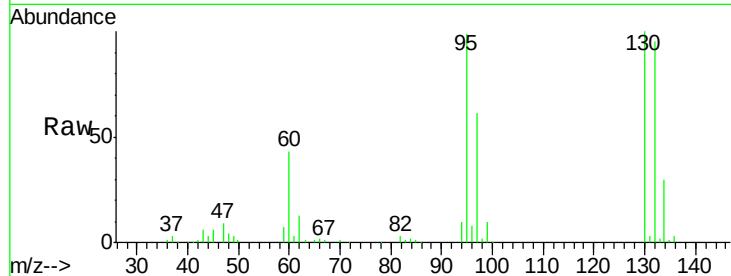
Tot Ion:130 Resp: 107116

Ion Ratio Lower Upper

130 100

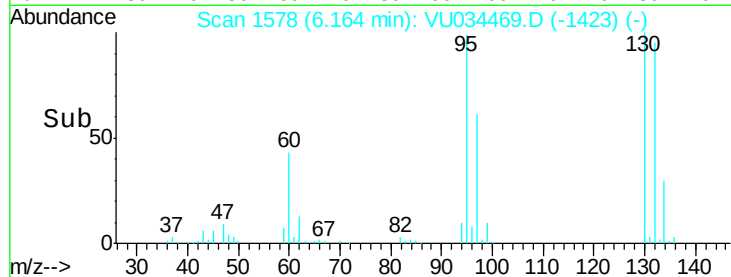
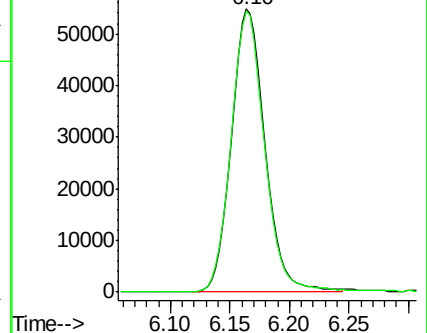
95 99.2 76.3 114.5

Manual Integrations
APPROVED



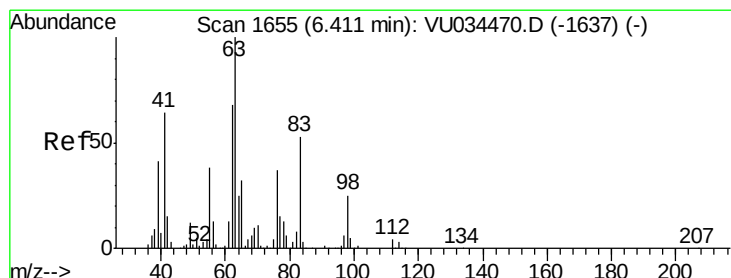
Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VU0



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#38

1,2-Dichloropropane

Concen: 4.839 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU034469.D

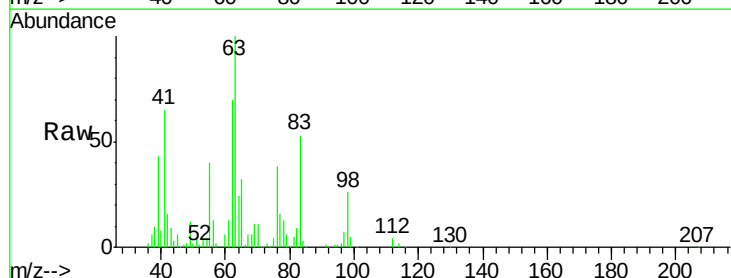
Acq: 11 Sep 2019 11:07

Tgt Ion: 63 Resp: 103606

Ion Ratio Lower Upper

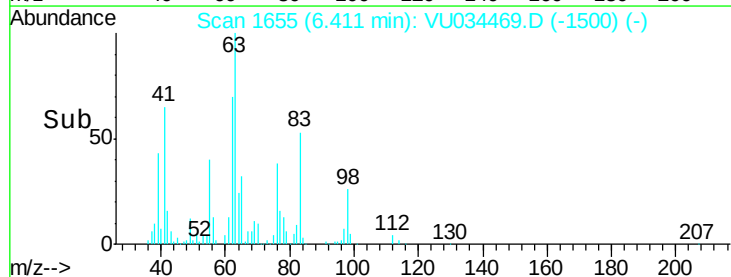
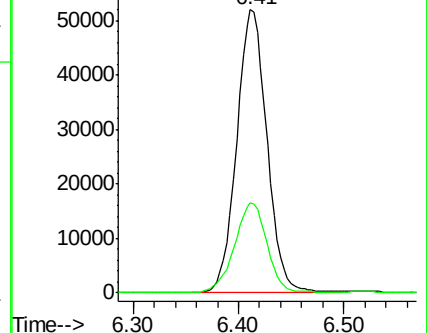
63 100

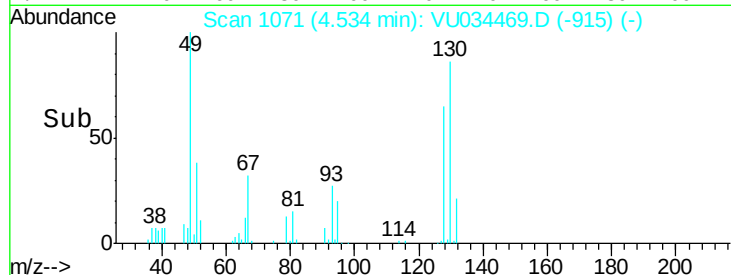
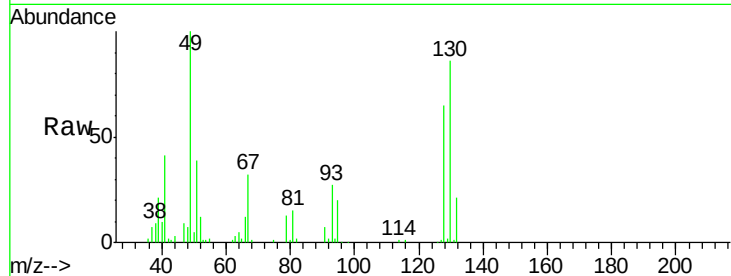
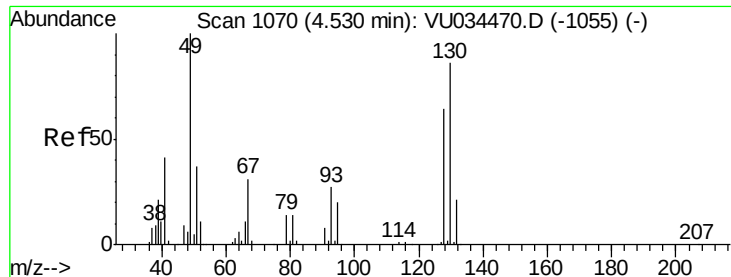
65 31.7 25.4 38.2



Abundance Ion 63.00 (62.70 to 63.70): VU0

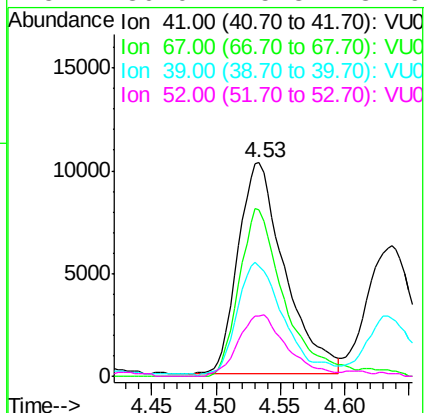
Ion 65.00 (64.70 to 65.70): VU0





#39
Methacrylonitrile
Concen: 4.428 ug/l
RT: 4.53 min Scan# 1071
Delta R.T. 0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tot Ion	41	Resp	25931
Ion	Ratio	Lower	Upper
41	100		
67	76.7	62.6	94.0
39	54.8	41.6	62.4
52	30.0	25.3	37.9

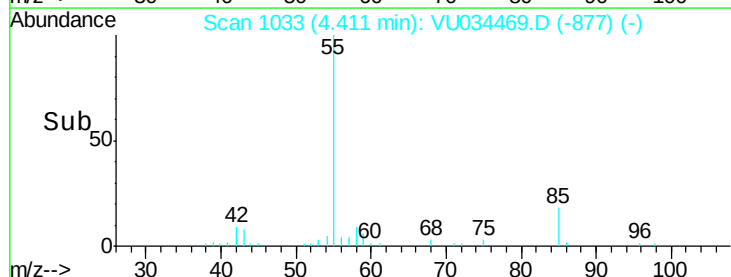
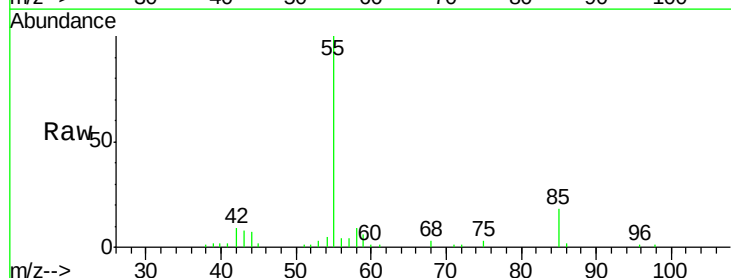
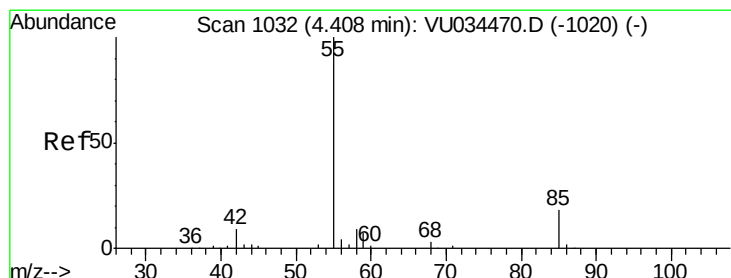


Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Manual Integrations
APPROVED

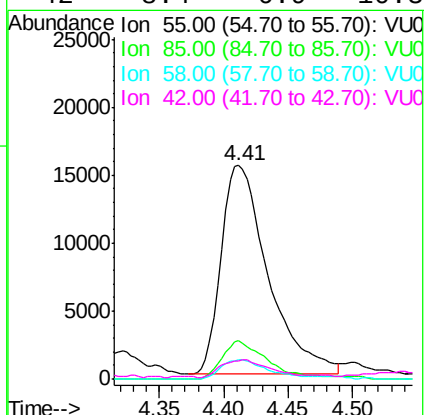
MMDadoda

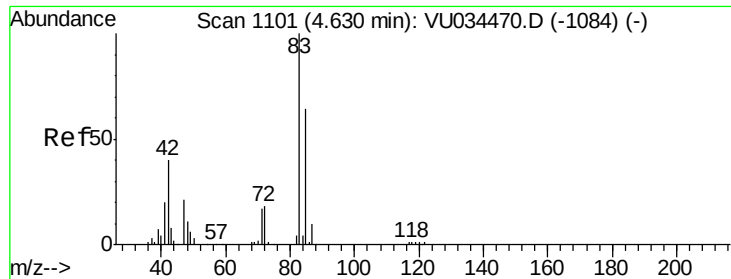
9/12/2019 4:53:26 PM



#40
Methyl acrylate
Concen: 4.288 ug/l
RT: 4.41 min Scan# 1033
Delta R.T. 0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	55	Resp	38983
Ion	Ratio	Lower	Upper
55	100		
85	17.7	13.8	20.6
58	9.1	7.0	10.6
42	8.4	6.9	10.3



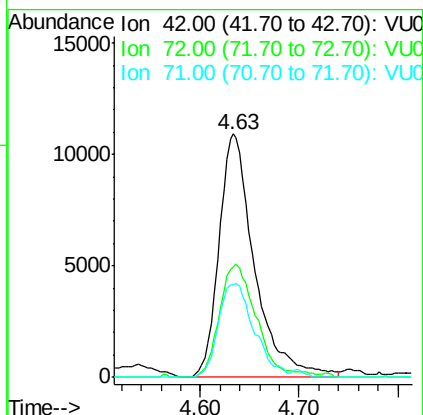
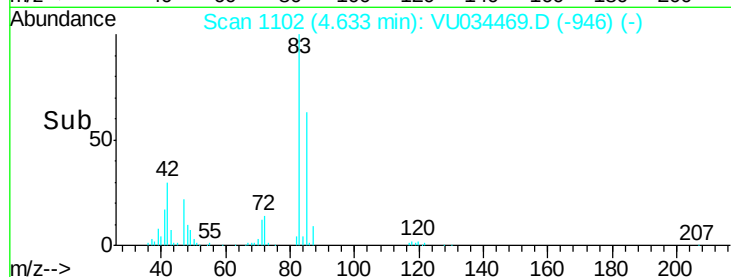
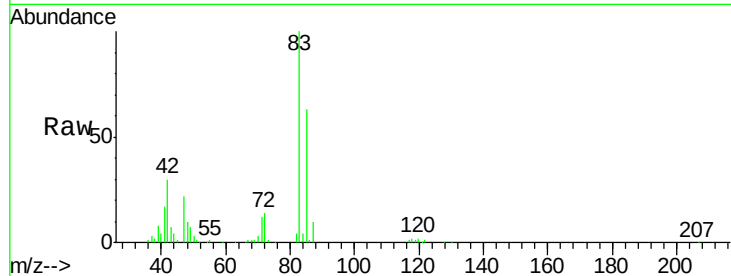


#41
Tetrahydrofuran
Concen: 9.413 ug/l
RT: 4.63 min Scan# 1102
Delta R.T. 0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

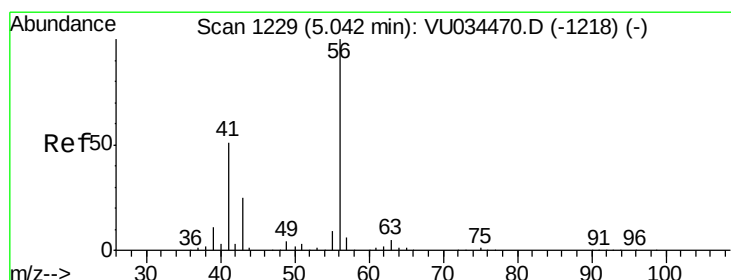
Tot Ion	Ratio	Lower	Upper
42	100		
72	47.5	39.6	59.4
71	38.8	33.6	50.4

Manual Integrations
APPROVED



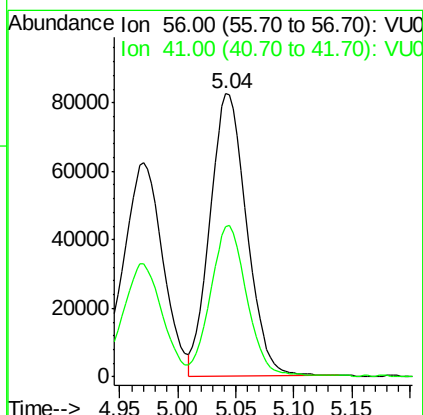
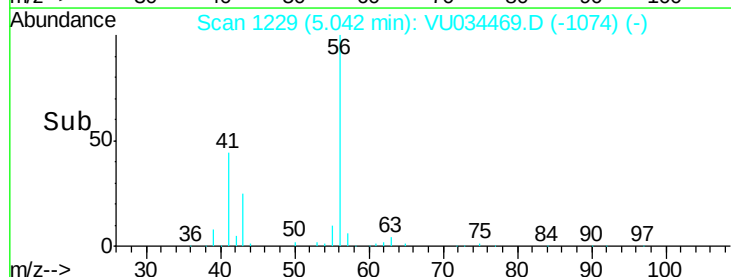
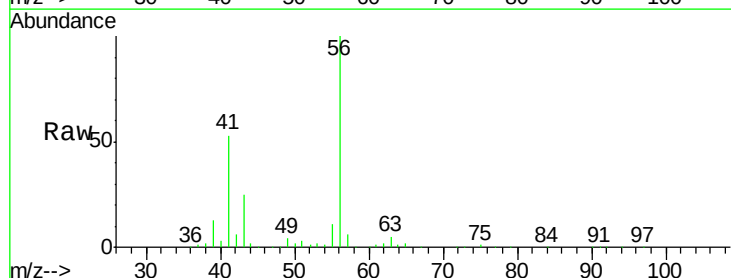
MMDadoda

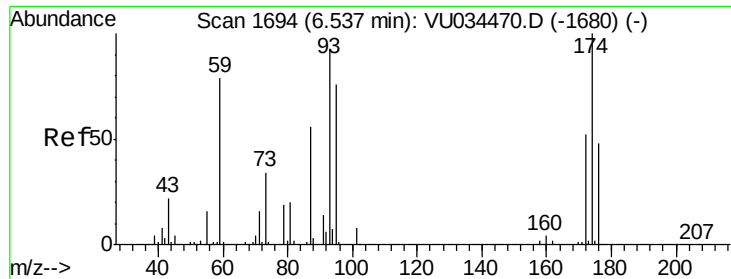
9/12/2019 4:53:26 PM



#42
1-Chlorobutane
Concen: 5.004 ug/l
RT: 5.04 min Scan# 1229
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Lower	Upper
56	100		
41	52.7	25.5	76.5





#43

Dibromomethane

Concen: 4.145 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

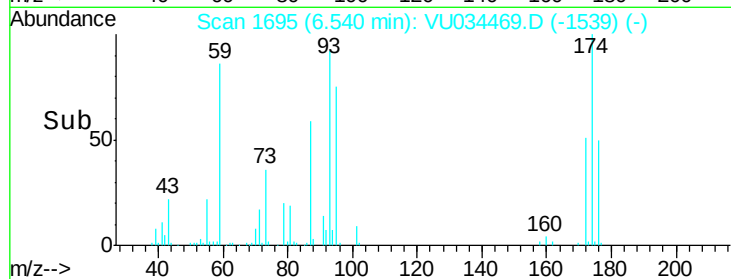
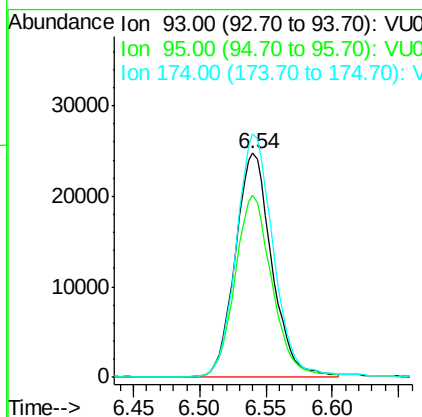
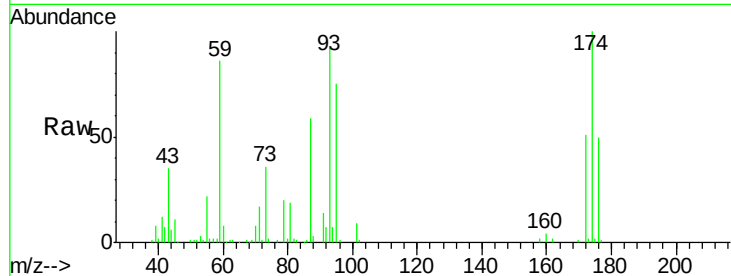
MSVOA_U

ClientSampleId :

VSTDIC005

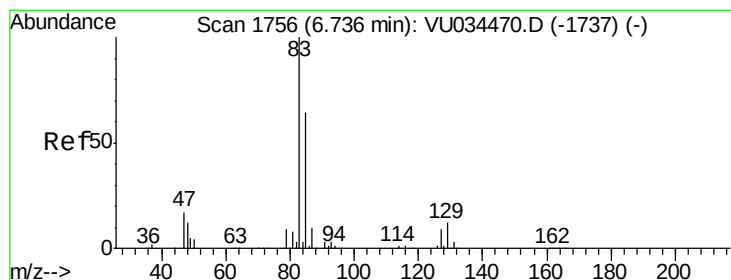
Tot Ion:	93	Resp:	47735
Ion	Ratio	Lower	Upper
93	100		
95	82.2	67.1	100.7
174	109.4	88.7	133.1

Manual Integrations
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#44

Bromodichloromethane

Concen: 4.350 ug/l

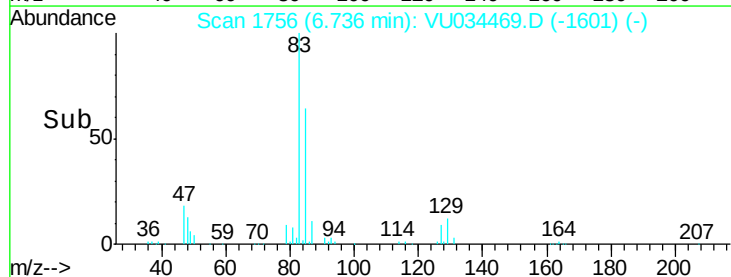
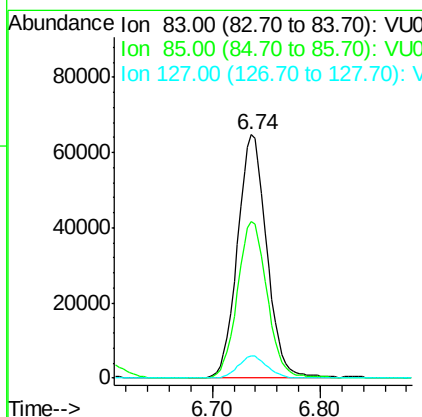
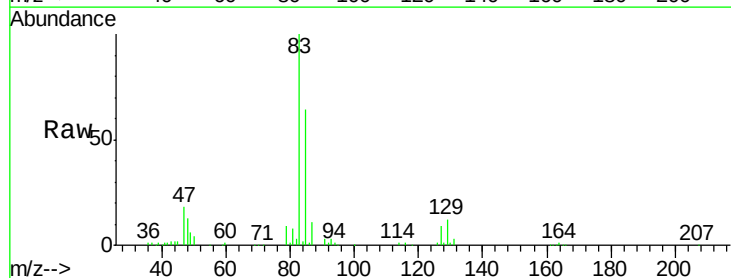
RT: 6.74 min Scan# 1756

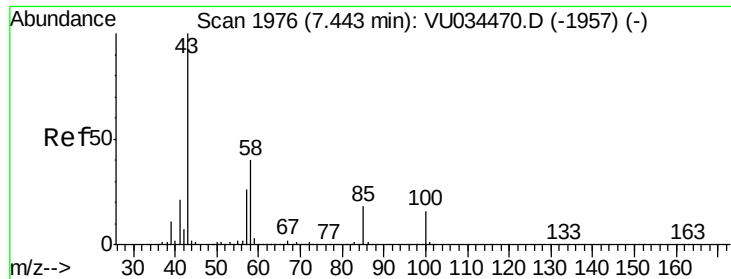
Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Tgt Ion:	83	Resp:	122623
Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.1	76.7
127	9.2	7.1	10.7



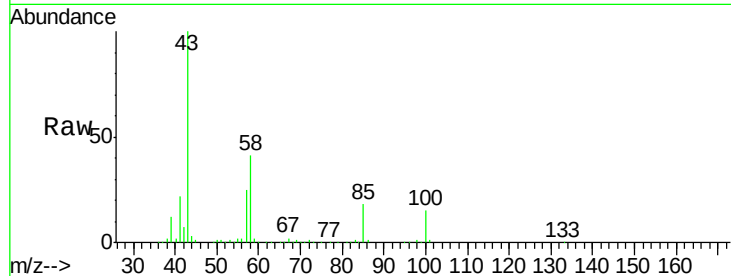


#45
4-Methyl-2-Pentanone
Concen: 21.430 ug/l
RT: 7.44 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

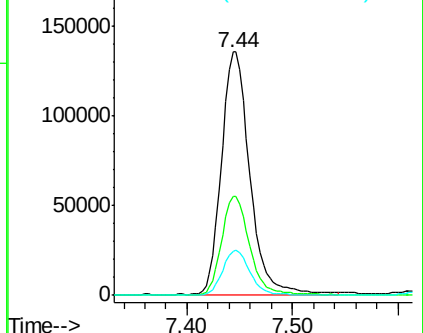
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	43	Resp	250640
Ion	Ratio	Lower	Upper
43	100		
58	40.6	20.2	60.6
85	18.2	14.6	21.8

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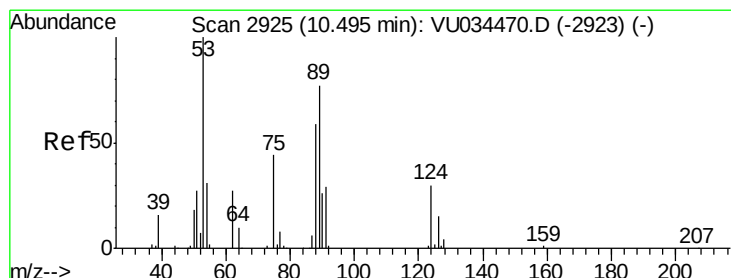
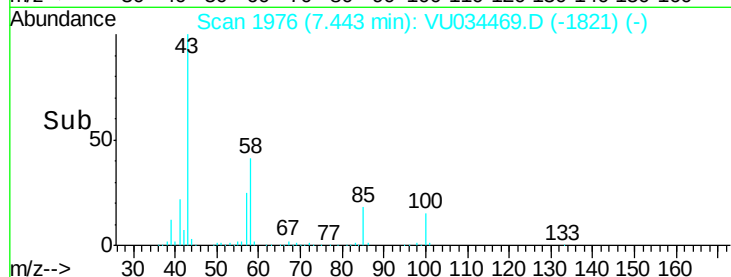


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 85.00 (84.70 to 85.70): VU0



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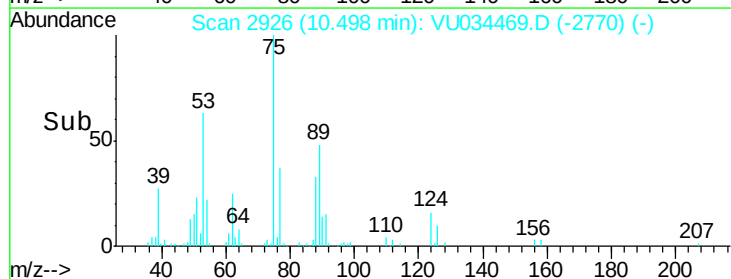
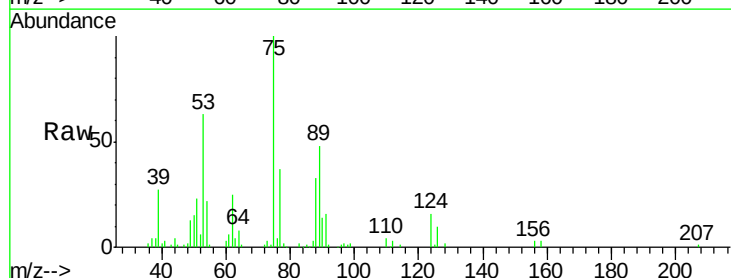
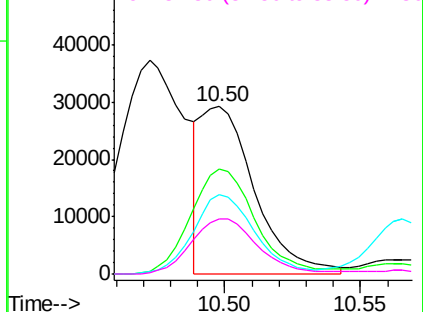
9/12/2019 4:53:26 PM

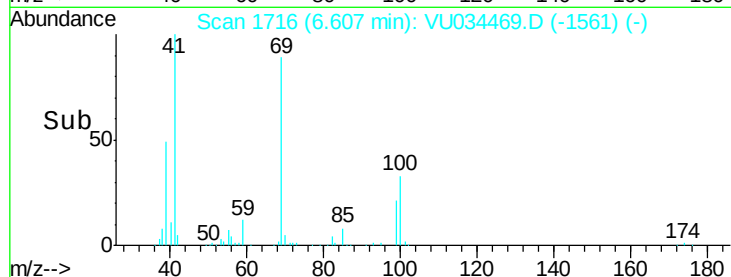
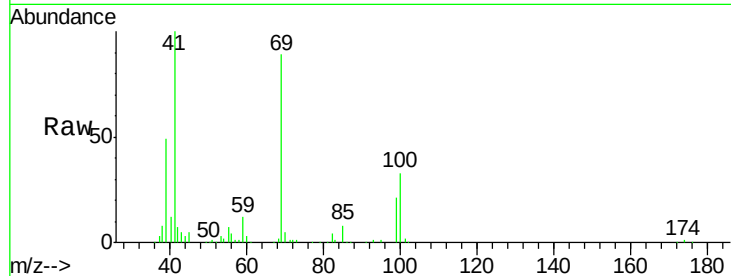
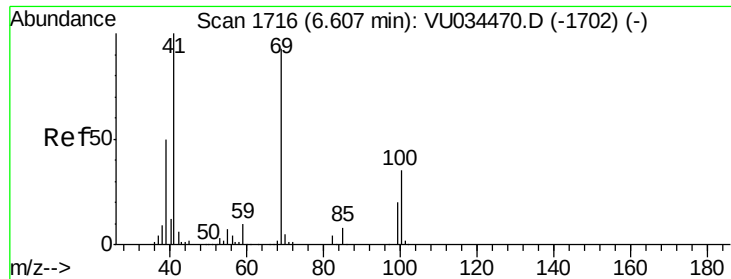


#46
t-1,4-Dichloro-2-butene
Concen: 8.785 ug/l m
RT: 10.50 min Scan# 2926
Delta R.T. 0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	75	Resp	40695
Ion	Ratio	Lower	Upper
75	100		
53	74.8	63.3	94.9
89	54.0	46.2	69.2
88	40.1	35.0	52.6

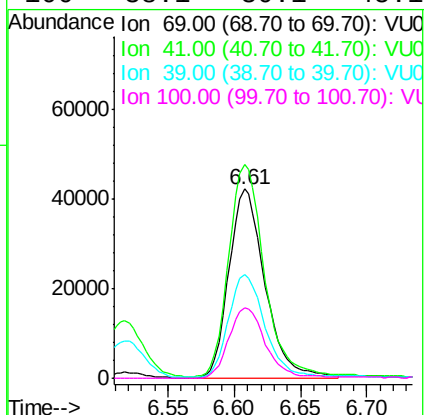
Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.80 (88.50 to 89.50): VU0
Ion 87.80 (87.50 to 88.50): VU0





#47
Methyl methacrylate
Concen: 9.114 ug/l
RT: 6.61 min Scan# 1716
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100				
41	109.7	0.0	212.8		
39	55.0	43.0	64.4		
100	38.1	30.1	45.1		

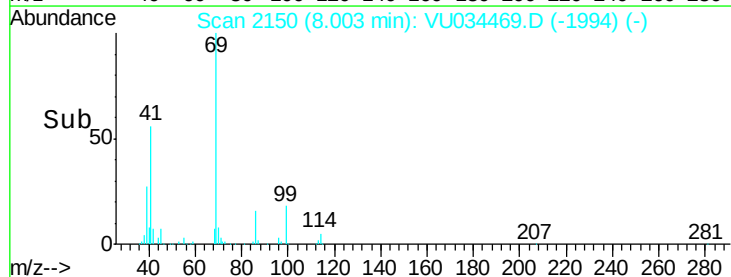
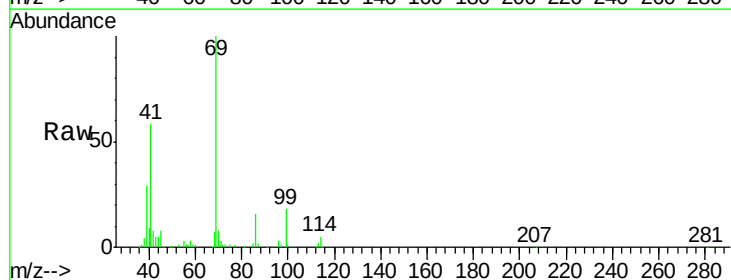
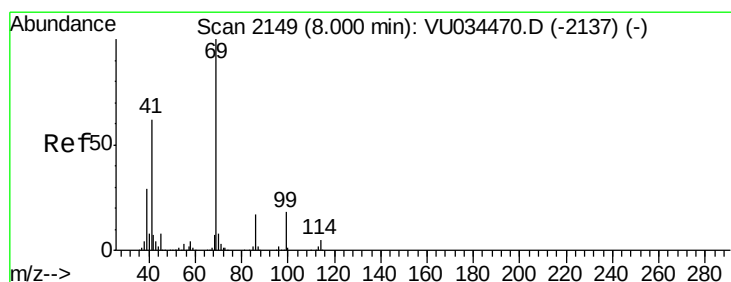


Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

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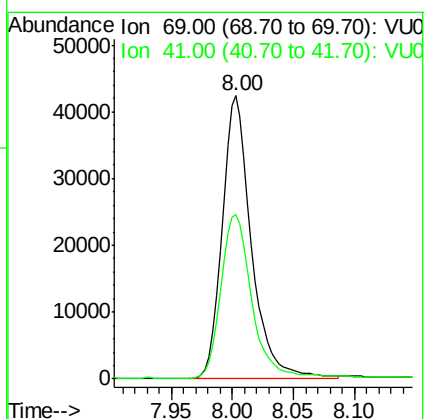
MMDadoda

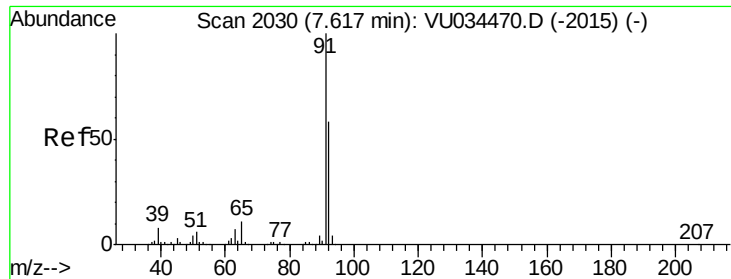
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#48
Ethyl methacrylate
Concen: 4.572 ug/l
RT: 8.00 min Scan# 2150
Delta R.T. 0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100				
41	61.2	30.6	91.8		





#49

Toluene

Concen: 5.342 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

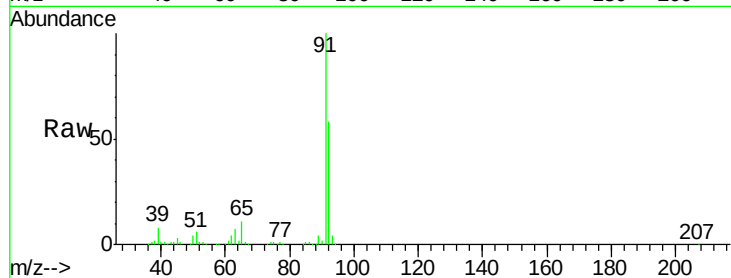
Tot Ion: 92 Resp: 239031

Ion Ratio Lower Upper

92 100

91 172.2 138.6 208.0

Manual Integrations
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Abundance Ion 92.00 (91.70 to 92.70): VU034469.D (-1875) (-)

Ion 91.00 (90.70 to 91.70): VU034469.D (-1875) (-)

250000

200000

150000

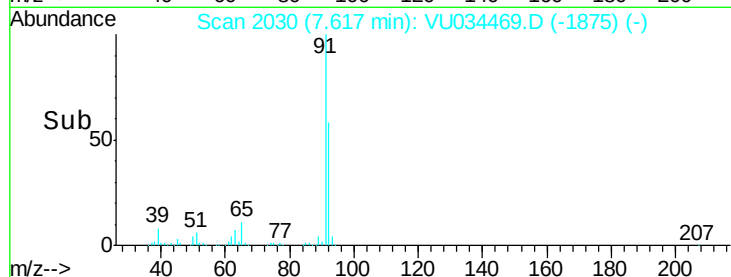
100000

50000

0

7.62

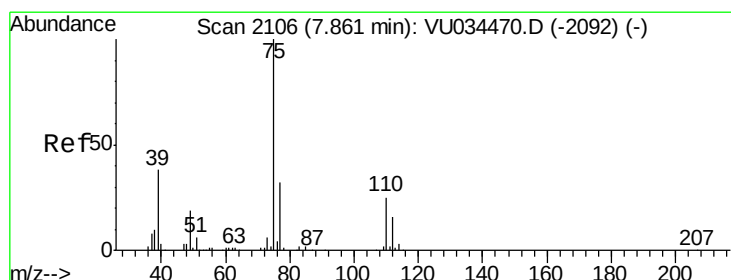
7.50 7.60 7.70 7.80



Time-->

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#50

t-1,3-Dichloropropene

Concen: 4.420 ug/l

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU034469.D

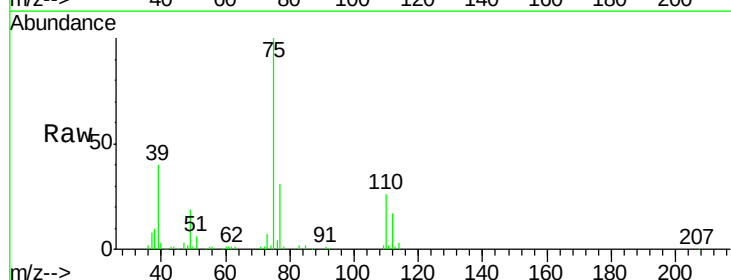
Acq: 11 Sep 2019 11:07

Tgt Ion: 75 Resp: 103212

Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU034469.D (-1951) (-)

Ion 77.00 (76.70 to 77.70): VU034469.D (-1951) (-)

60000

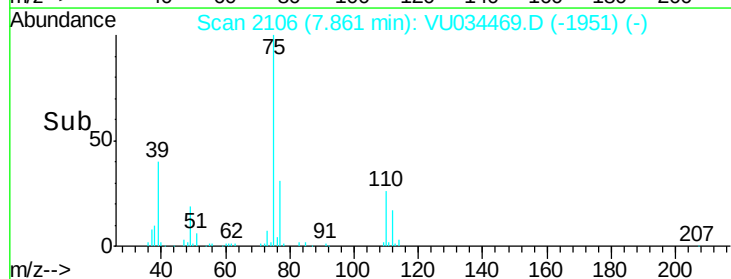
40000

20000

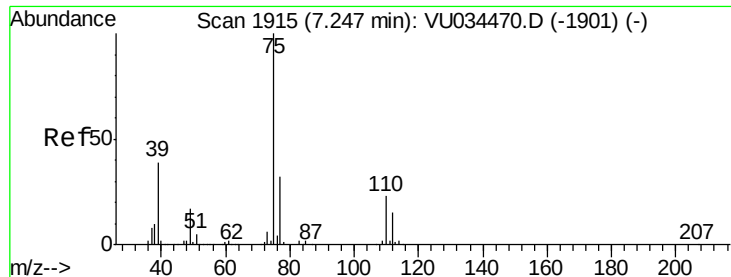
0

7.86

7.80 7.90 8.00



Time-->



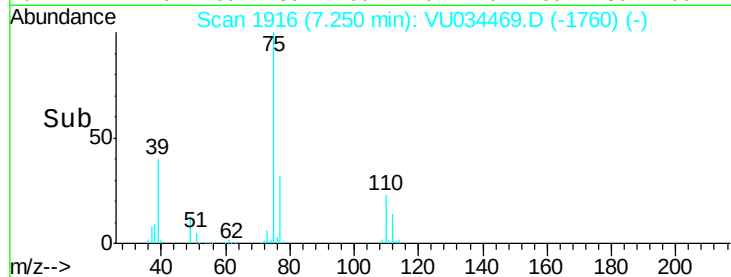
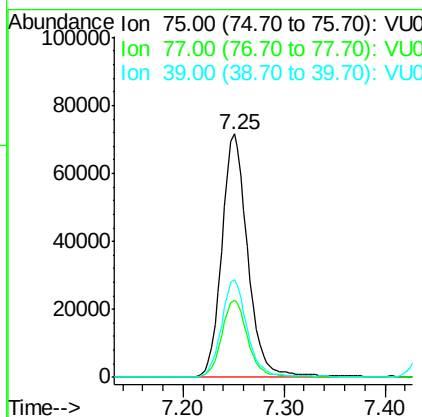
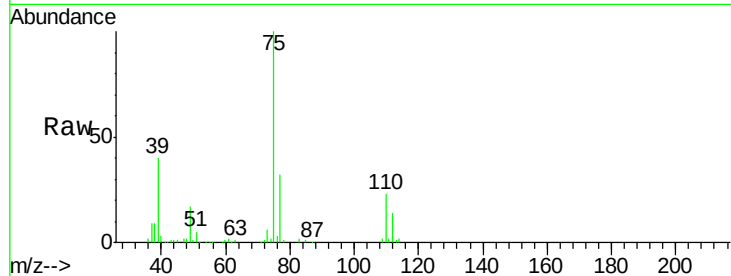
#51

cis-1,3-Dichloropropene
 Concen: 4.595 ug/l
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

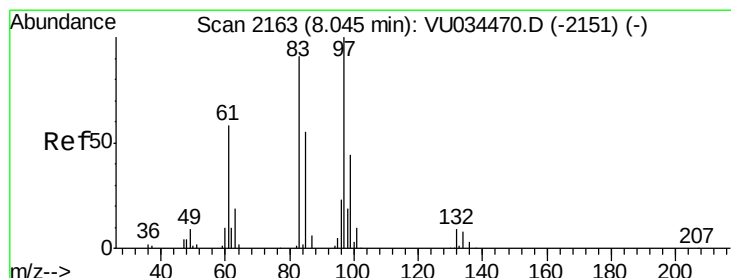
Tot Ion:	75	Resp:	128772
Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.3	37.9
39	40.1	31.0	46.4

Manual Integrations
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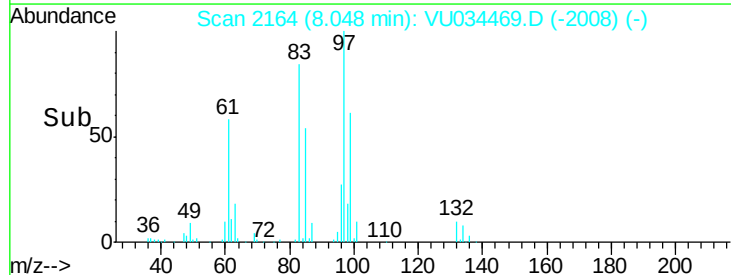
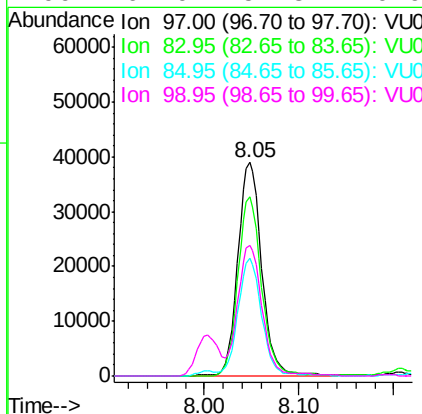
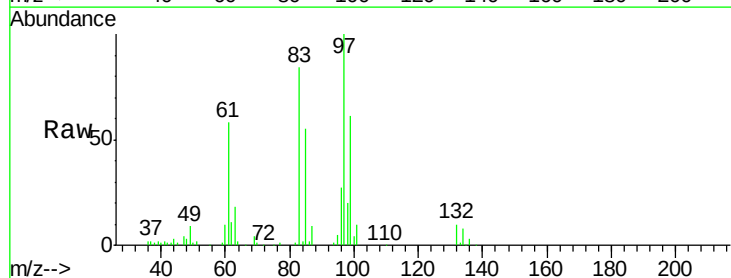
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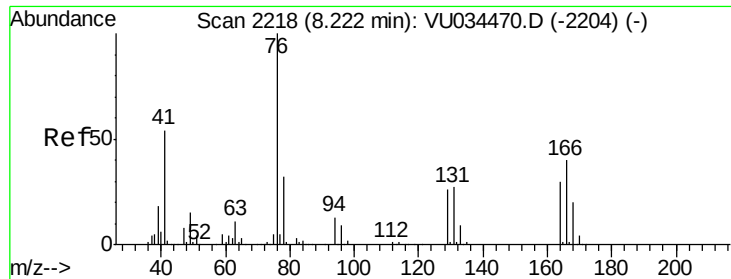


#52

1,1,2-Trichloroethane
 Concen: 4.434 ug/l
 RT: 8.05 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Tgt Ion:	97	Resp:	68531
Ion	Ratio	Lower	Upper
97	100		
83	83.8	72.5	108.7
85	54.9	45.4	68.0
99	61.0	51.3	76.9





#53

1,3-Dichloropropane

Concen: 4.347 ug/l

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 113824

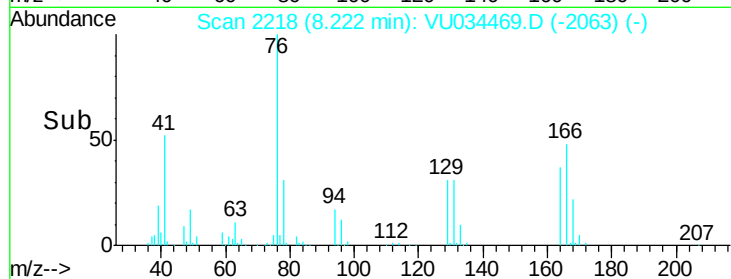
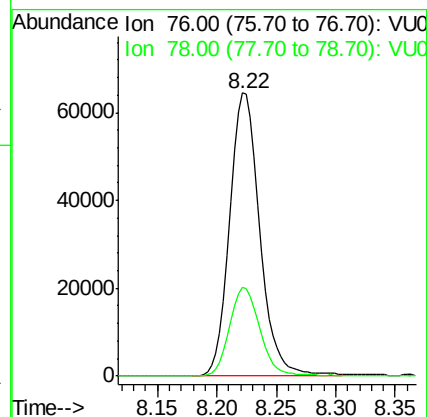
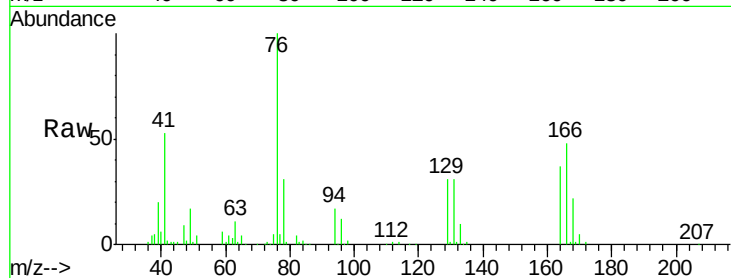
Ion Ratio Lower Upper

76 100

78 31.6 26.1 39.1

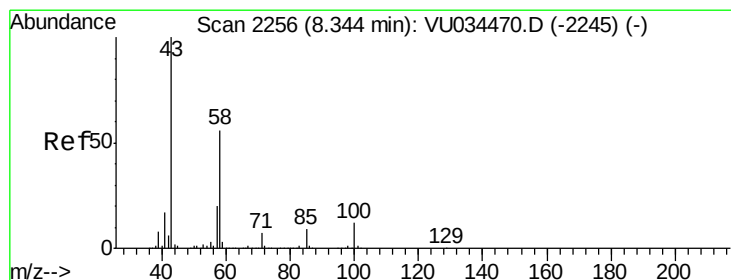
Manual Integrations

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#54

2-Hexanone

Concen: 21.156 ug/l

RT: 8.35 min Scan# 2257

Delta R.T. 0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

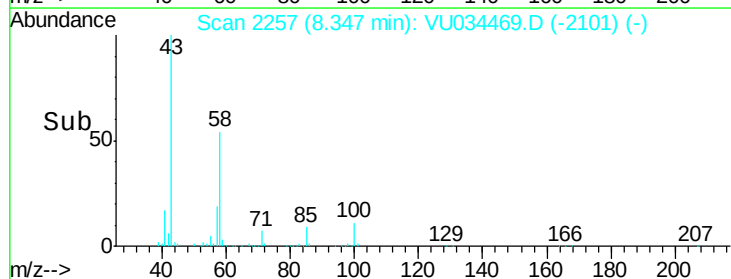
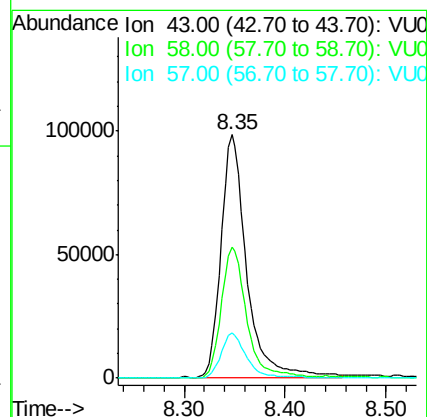
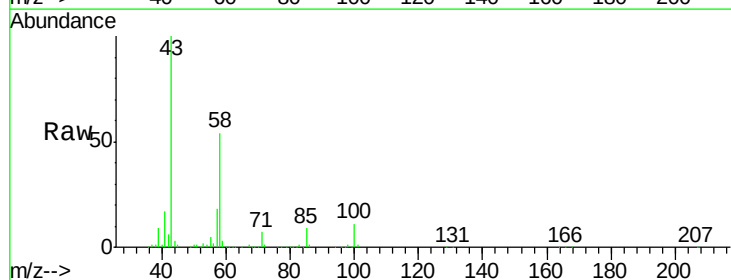
Tgt Ion: 43 Resp: 173542

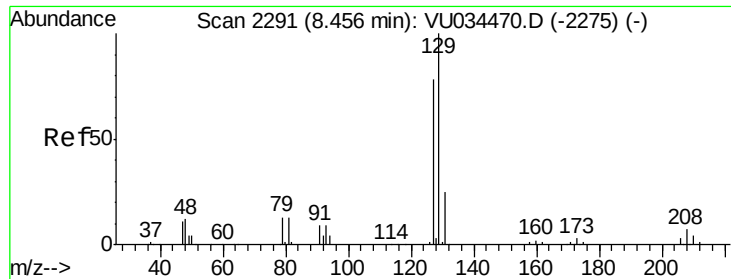
Ion Ratio Lower Upper

43 100

58 54.1 36.4 76.4

57 18.6 0.0 39.5



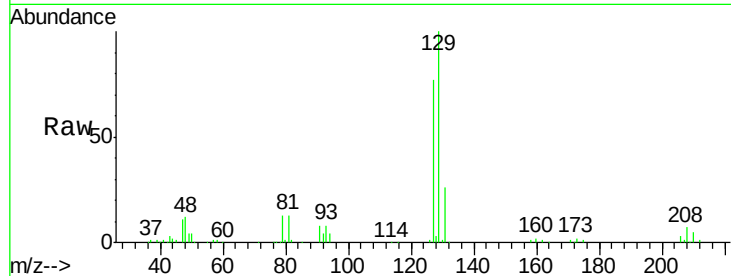


#55
Dibromochloromethane
Concen: 4.555 ug/l
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

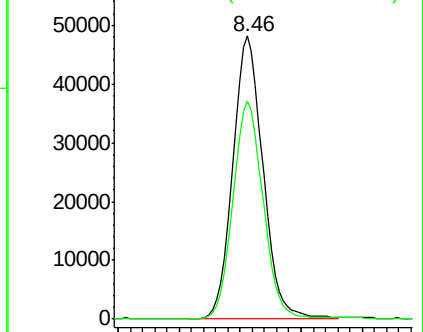
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
129	100		
127	76.8	60.9	91.3

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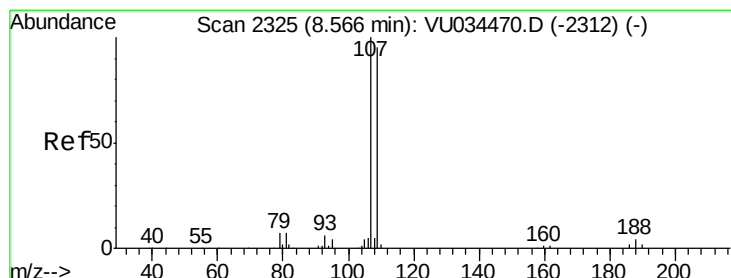
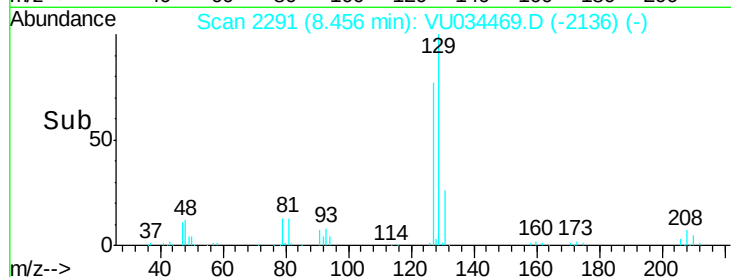


Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



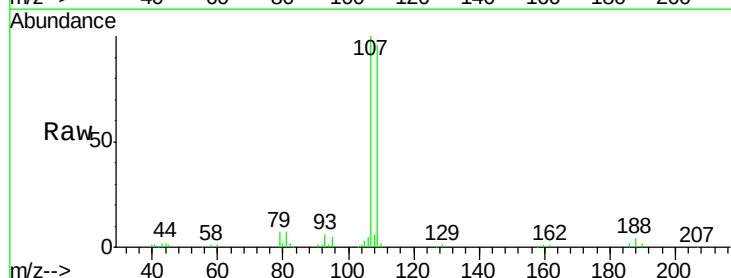
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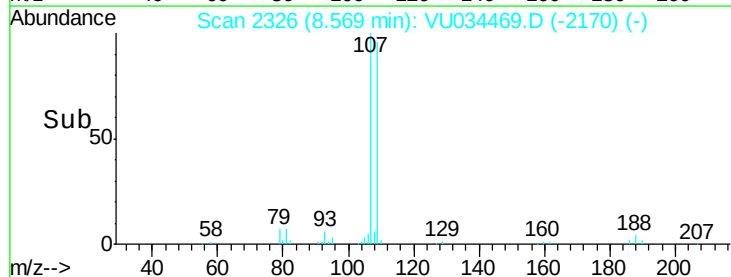
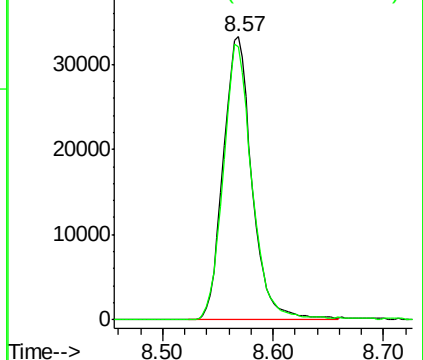


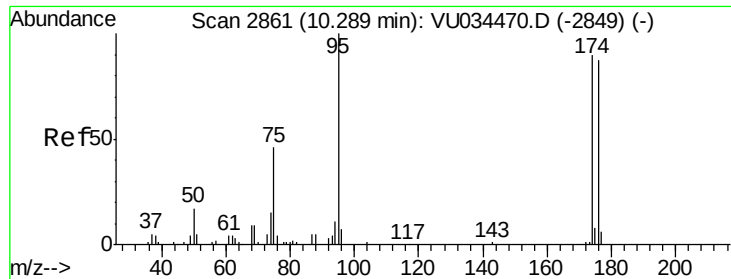
#56
1,2-Dibromoethane
Concen: 4.192 ug/l
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.7	0.0	190.8



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V





#57

4-Bromofluorobenzene

Concen: 0.999 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

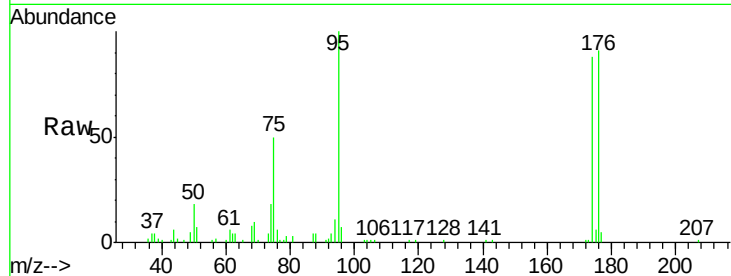
MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:	95	Resp:	25255
Ion	Ratio	Lower	Upper
95	100		
174	92.6	70.1	105.1
176	86.4	67.7	101.5

Manual Integrations
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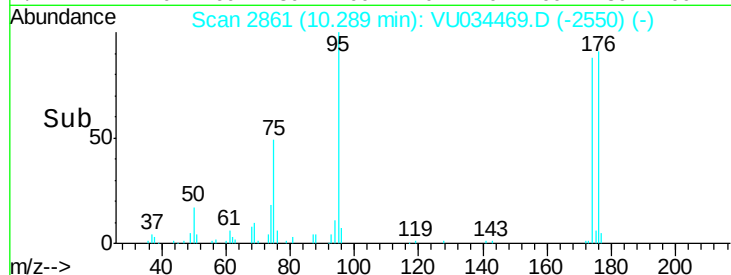
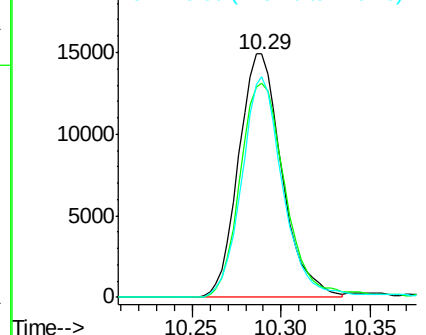


Abundance

Ion 95.00 (94.70 to 95.70): V

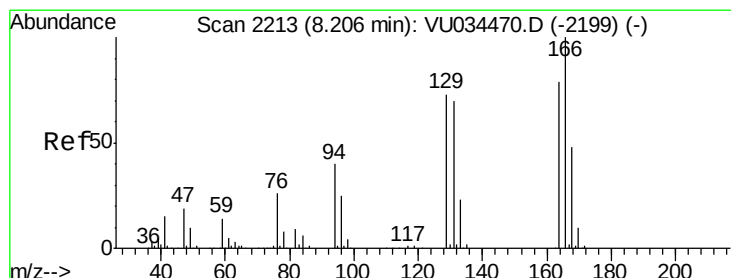
Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



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#58

Tetrachloroethene

Concen: 5.439 ug/l

RT: 8.21 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Tgt Ion:	164	Resp:	103398
Ion	Ratio	Lower	Upper
164	100		
166	126.5	101.5	152.3
129	90.3	73.8	110.8
131	87.7	71.5	107.3

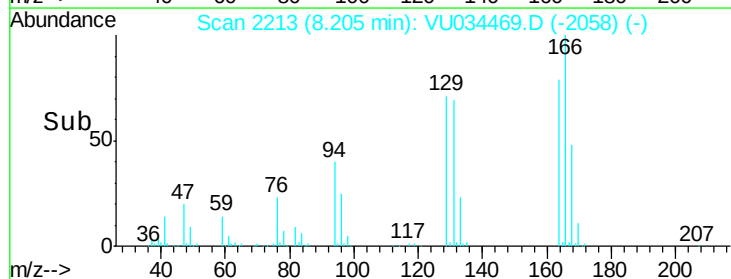
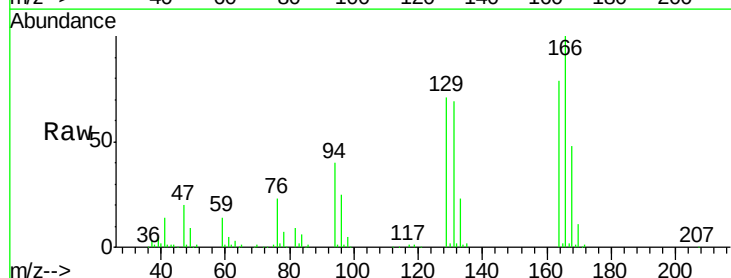
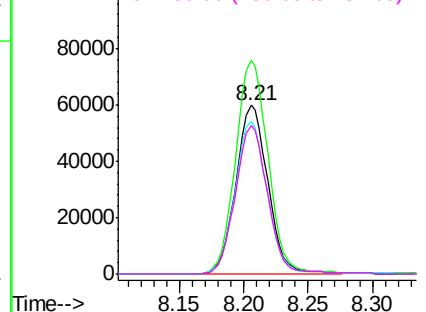
Abundance

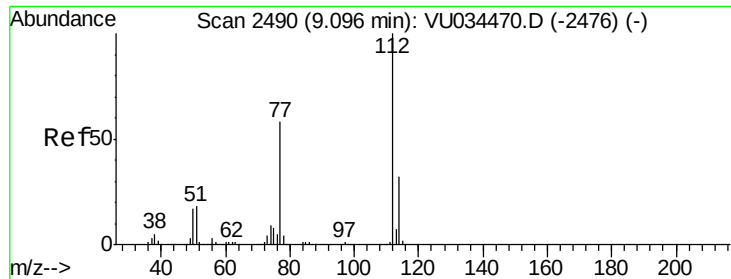
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



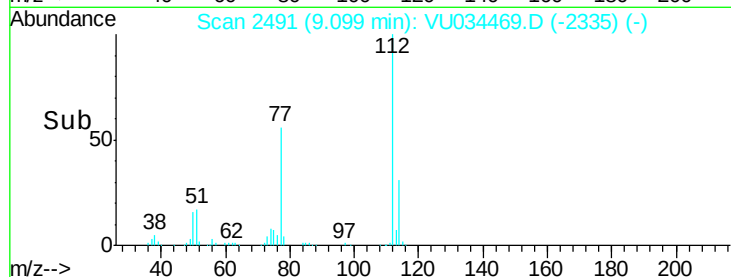
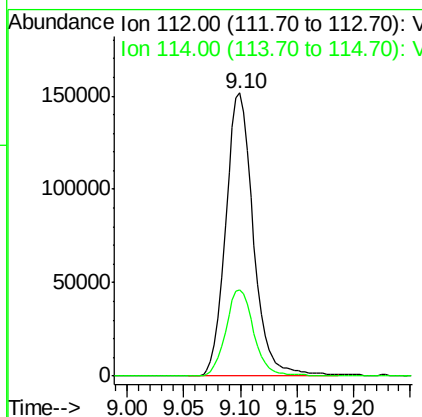
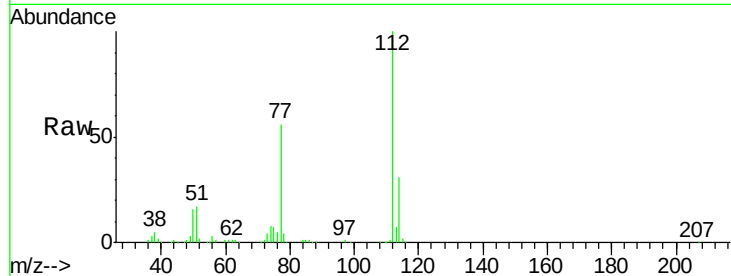


#59
Chlorobenzene
Concen: 5.057 ug/l
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

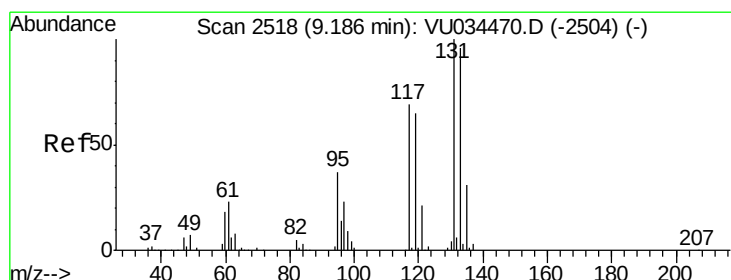
Tot Ion	Ratio	Resp	Lower	Upper
112	100	258694		
114	30.6	25.6	38.4	

Manual Integrations
APPROVED



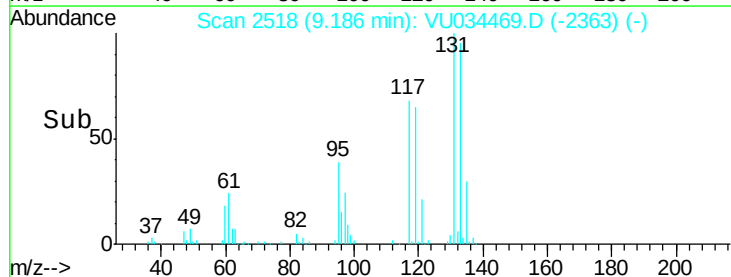
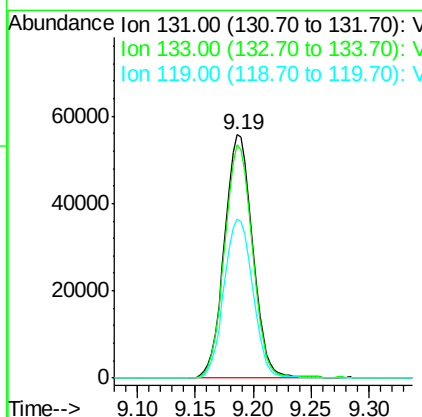
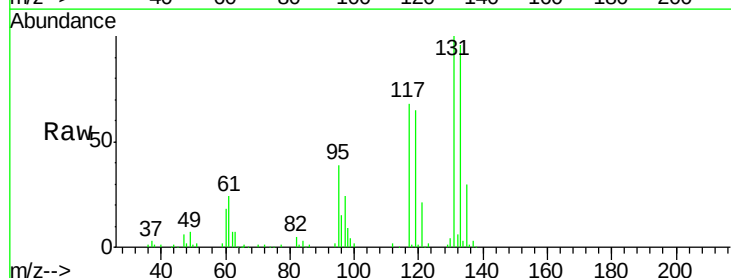
MMDadoda

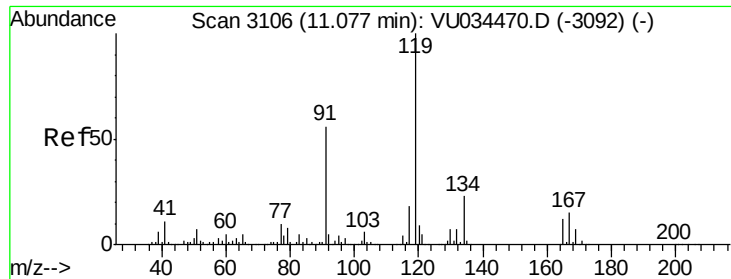
9/12/2019 4:53:26 PM



#60
1,1,1,2-Tetrachloroethane
Concen: 4.836 ug/l
RT: 9.19 min Scan# 2518
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	93845		
133	94.7	76.8	115.2	
119	66.5	52.4	78.6	



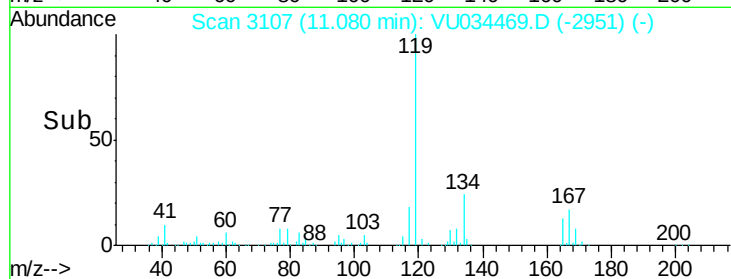
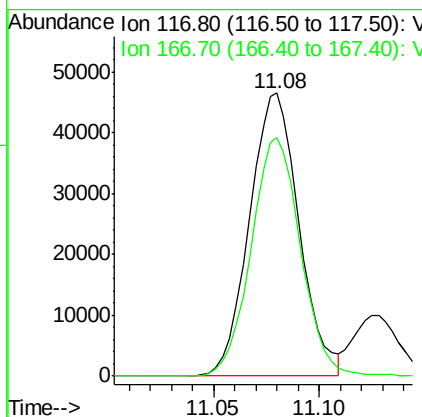
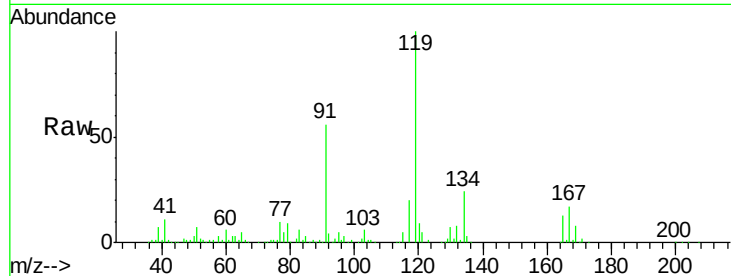


#61
 Pentachloroethane
 Concen: 4.787 ug/l
 RT: 11.08 min Scan# 3107
 Delta R.T. 0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

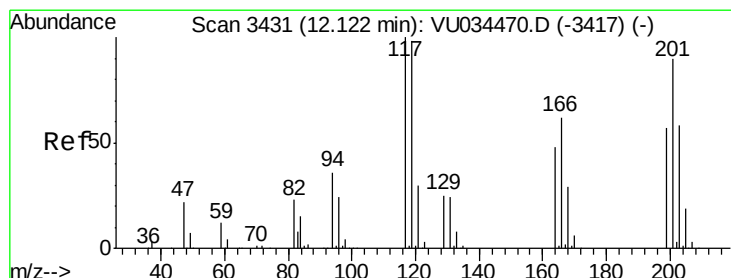
Tot Ion:117 Resp: 75876
 Ion Ratio Lower Upper
 117 100
 167 84.3 70.7 106.1

Manual Integrations
 APPROVED



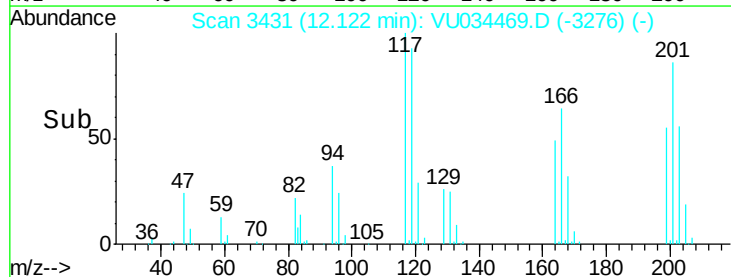
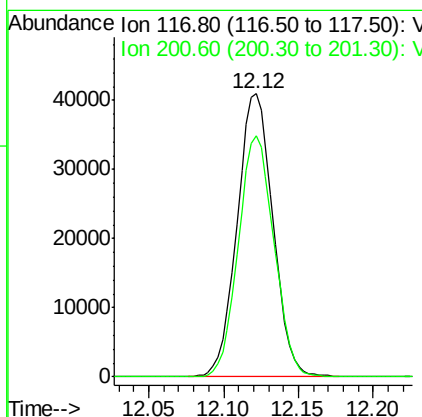
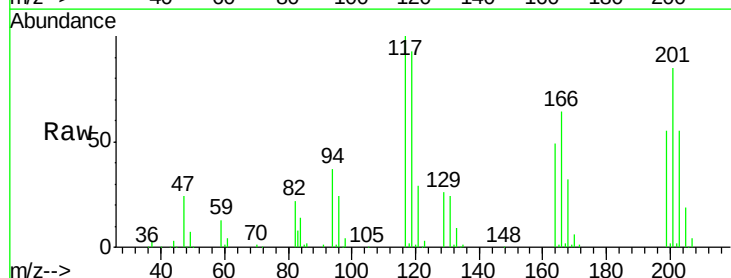
MMDadoda

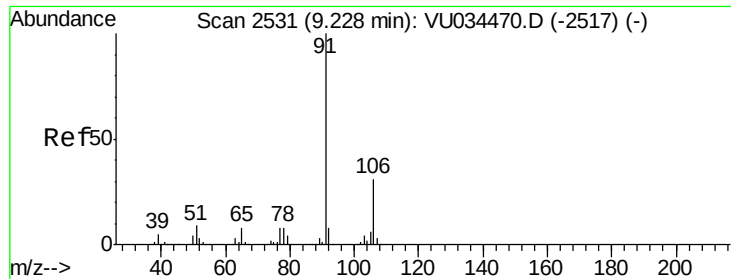
9/12/2019 4:53:26 PM



#62
 Hexachloroethane
 Concen: 4.486 ug/l
 RT: 12.12 min Scan# 3431
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Tgt Ion:117 Resp: 67837
 Ion Ratio Lower Upper
 117 100
 201 85.5 71.8 107.8





#63

Ethyl Benzene

Concen: 5.152 ug/l

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

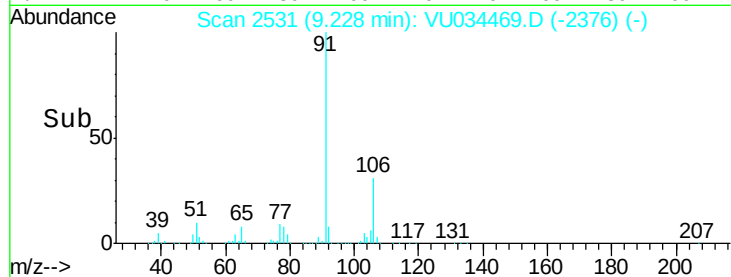
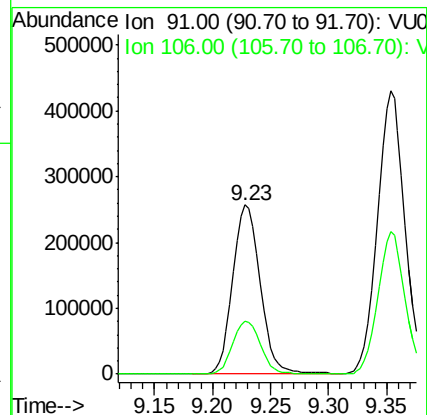
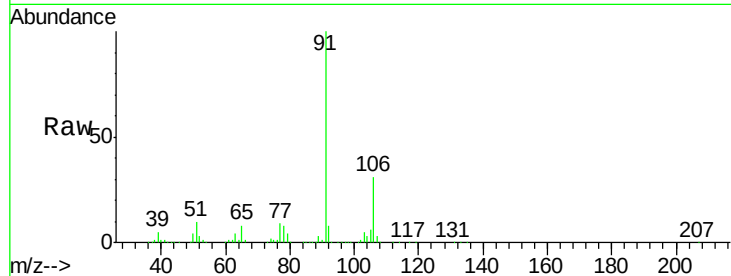
Tot Ion: 91 Resp: 423541

Ion Ratio Lower Upper

91 100

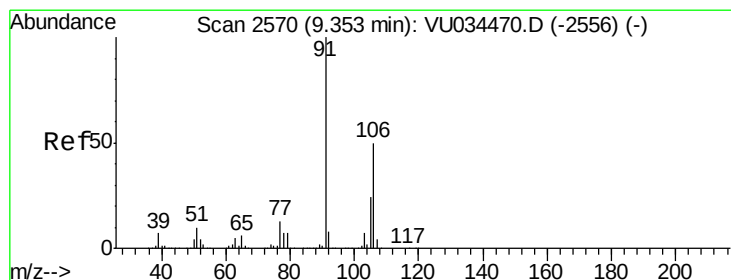
106 31.2 25.2 37.8

Manual Integrations
APPROVED



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#64

m/p-Xylenes

Concen: 10.795 ug/l

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034469.D

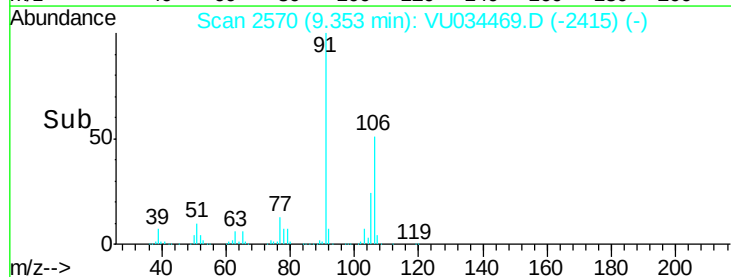
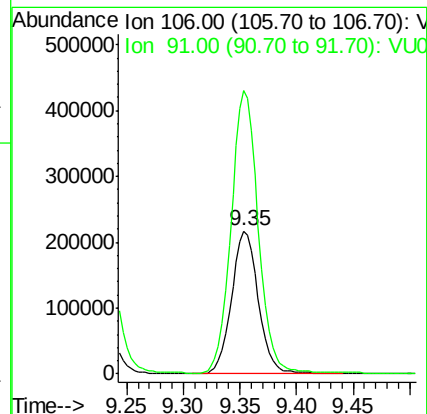
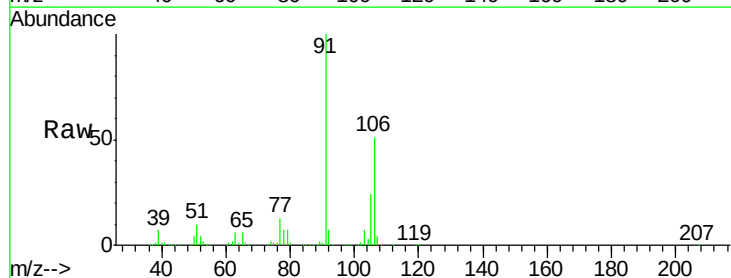
Acq: 11 Sep 2019 11:07

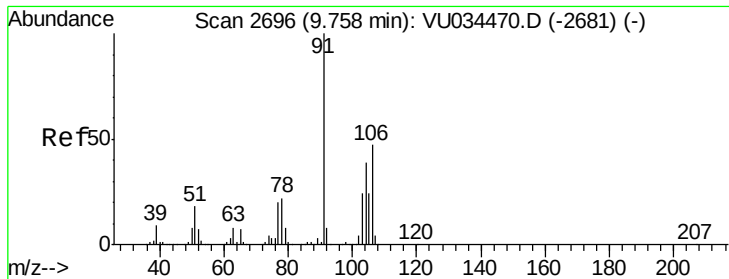
Tgt Ion: 106 Resp: 355699

Ion Ratio Lower Upper

106 100

91 202.5 161.8 242.6



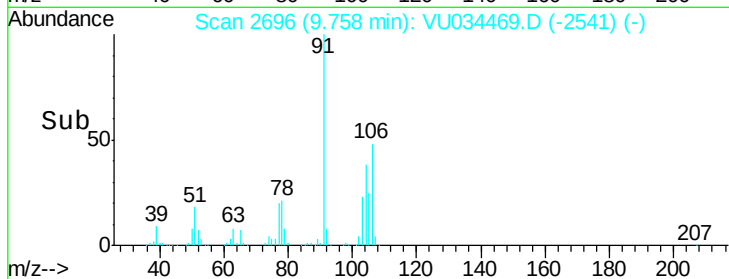
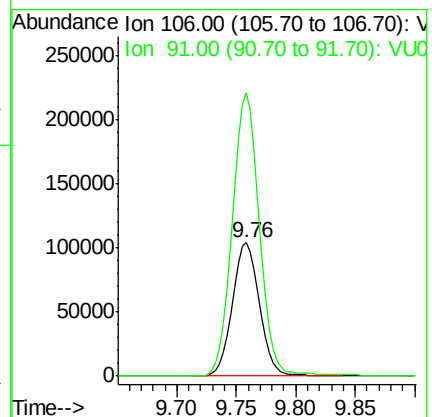
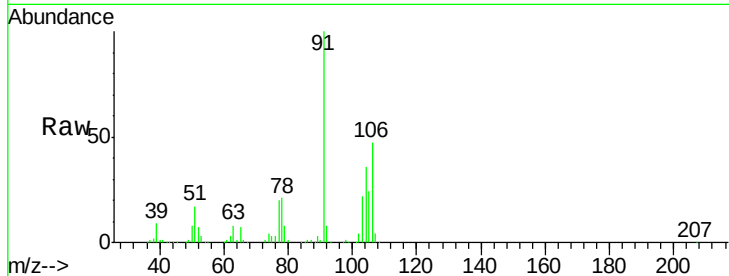


#65
o-Xylene
Concen: 5.236 ug/l
RT: 9.76 min Scan# 2696
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

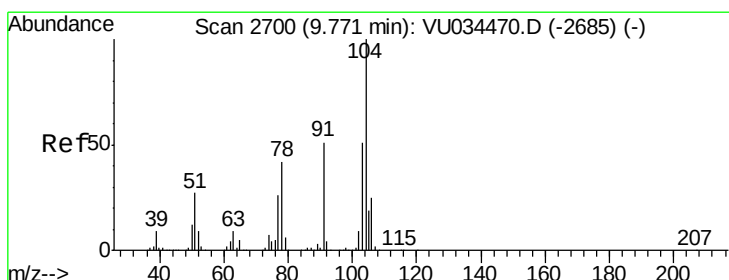
Tot Ion	Ratio	Lower	Upper
106	100		
91	210.4	104.7	313.9

Manual Integrations
APPROVED



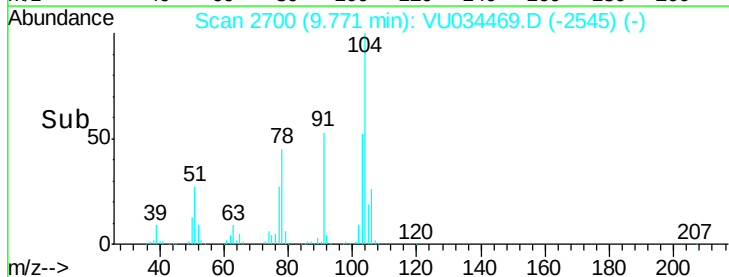
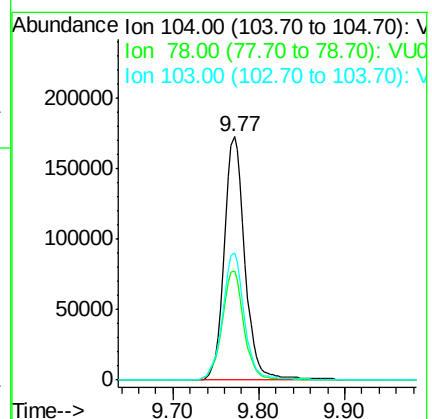
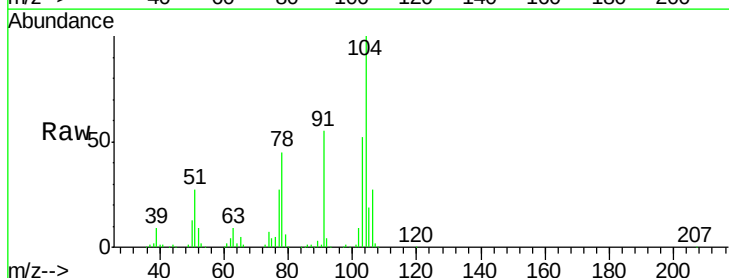
MMDadoda

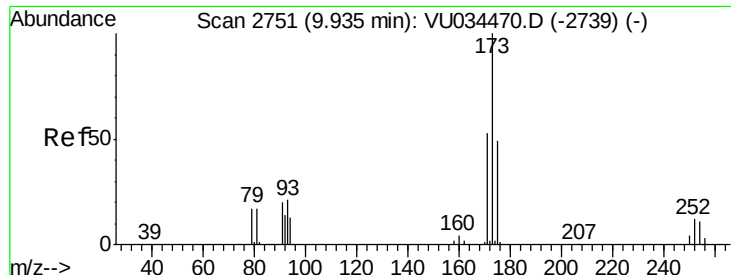
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#66
Styrene
Concen: 5.435 ug/l
RT: 9.77 min Scan# 2700
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.5	37.8	56.6
103	54.7	43.8	65.8





#67

Bromoform

Concen: 4.670 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

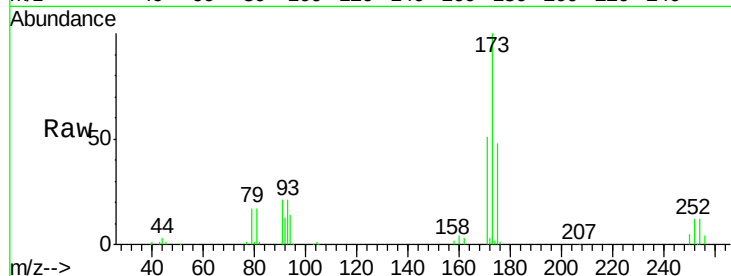
MSVOA_U

ClientSampleId :

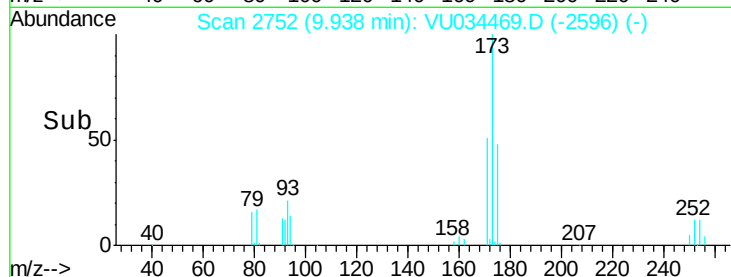
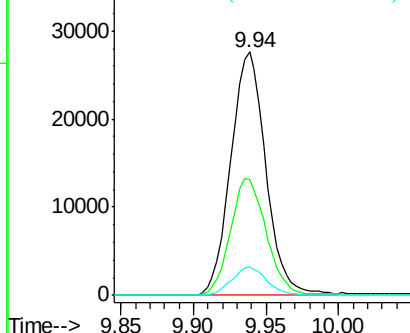
VSTDIC005

Tot Ion:173	Resp:	46458
Ion Ratio	Lower	Upper
173 100		
175 49.3	39.1	58.7
254 11.4	8.6	13.0

Manual Integrations
APPROVED

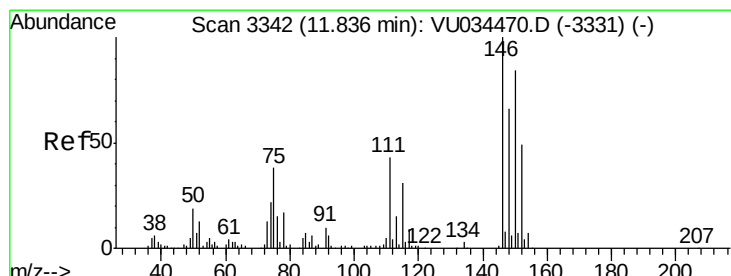


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



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#68

1,2-Dichlorobenzene-d4

Concen: 1.025 ug/l

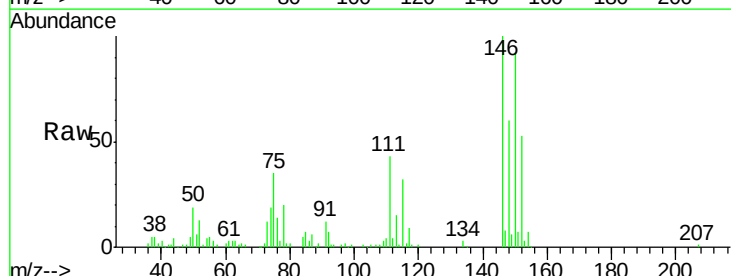
RT: 11.84 min Scan# 3343

Delta R.T. 0.00 min

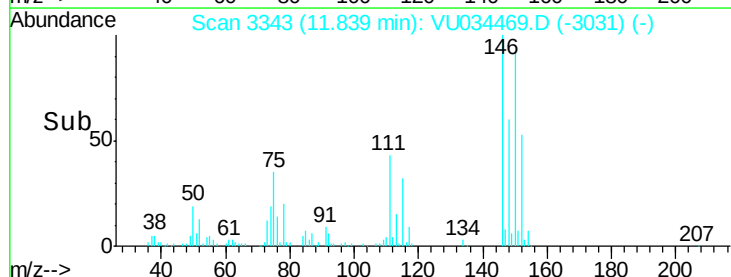
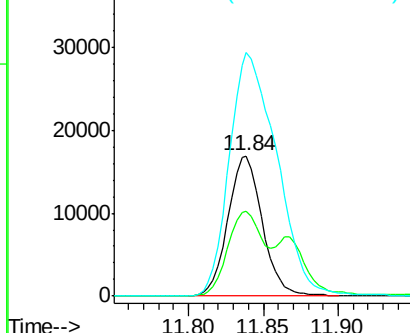
Lab File: VU034469.D

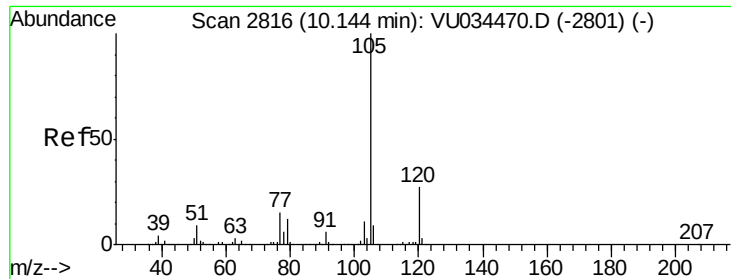
Acq: 11 Sep 2019 11:07

Tgt Ion:152	Resp:	27129
Ion Ratio	Lower	Upper
152 100		
115 62.1	0.0	126.6
150 239.4	0.0	633.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 5.383 ug/l

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

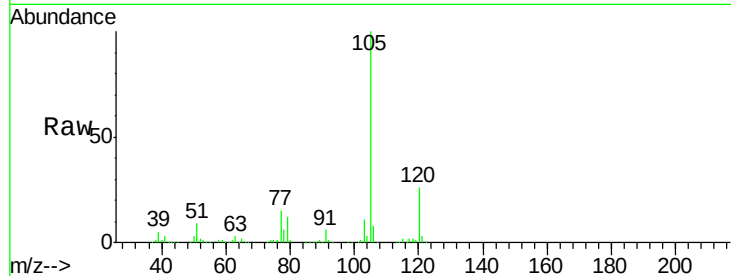
Tot Ion:105 Resp: 436484

Ion Ratio Lower Upper

105 100

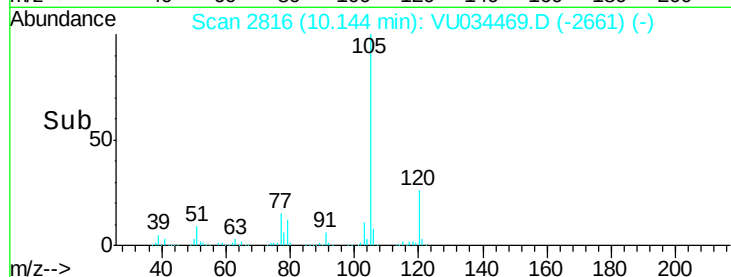
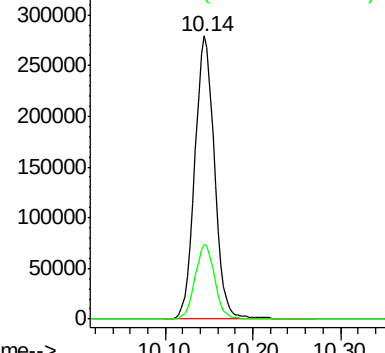
120 26.5 13.4 40.2

Manual Integrations
APPROVED



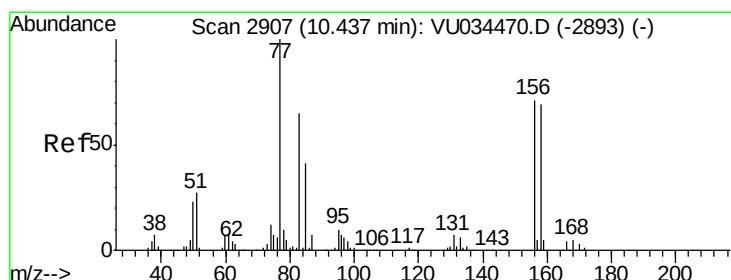
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



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#70

1,1,2,2-Tetrachloroethane

Concen: 4.202 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

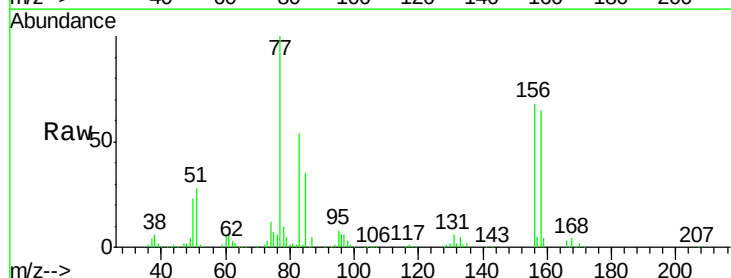
Tgt Ion: 83 Resp: 85883

Ion Ratio Lower Upper

83 100

131 10.2 8.2 12.4

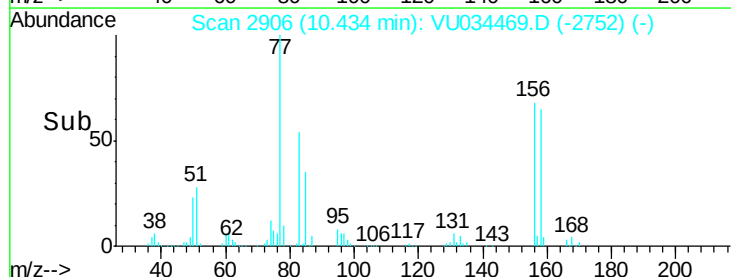
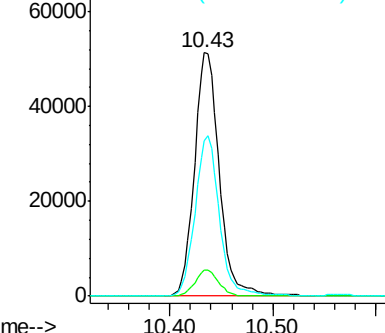
85 64.4 51.9 77.9

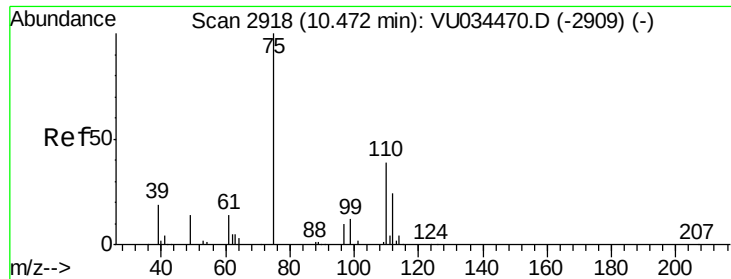


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VU0



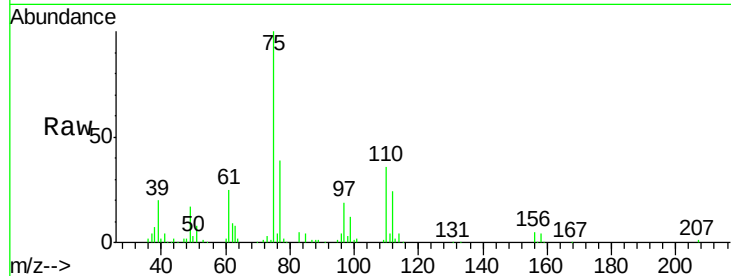


#71
1,2,3-Trichloropropane
Concen: 3.981 ug/l m
RT: 10.47 min Scan# 2918
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
75	75	100		
77	77	0.0	0.0	0.0
110	110	34.0	0.0	66.8
97	97	18.7	0.0	35.6

Manual Integrations
APPROVED

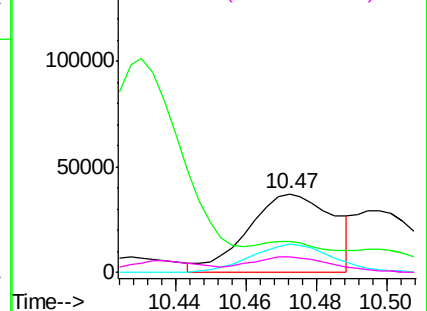


Abundance Ion 75.00 (74.70 to 75.70): VU034470.D (-2909) (-)

Ion 77.00 (76.70 to 77.70): VU034470.D (-2909) (-)

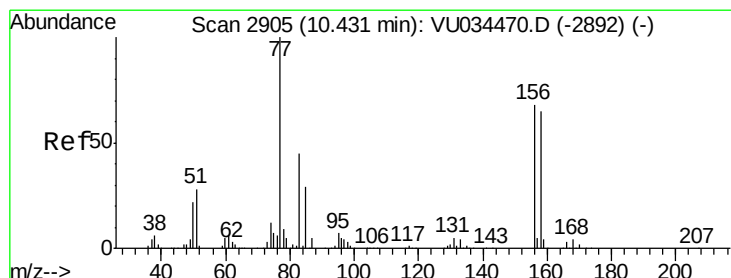
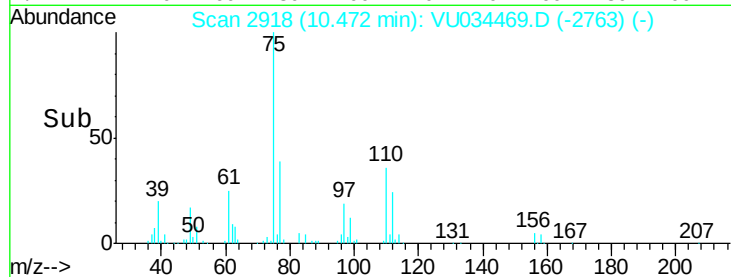
Ion 110.00 (109.70 to 110.70): VU034470.D (-2909) (-)

Ion 97.00 (96.70 to 97.70): VU034470.D (-2909) (-)



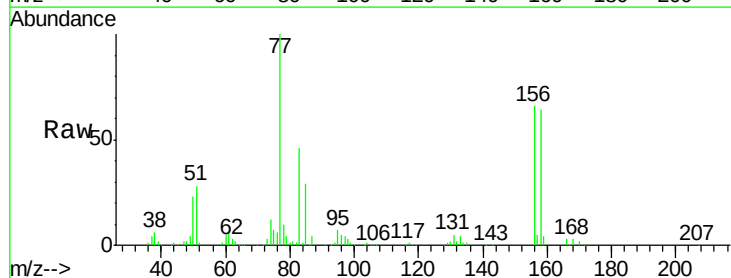
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#72
Bromobenzene
Concen: 5.301 ug/l
RT: 10.43 min Scan# 2905
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

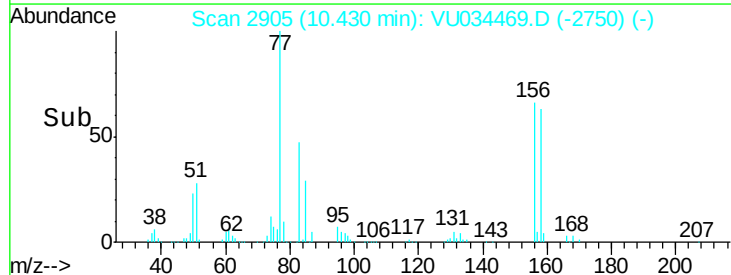
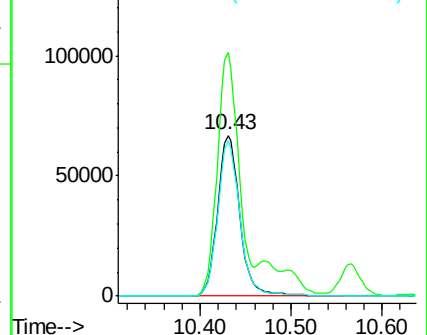
Tgt Ion	Ion	Ratio	Lower	Upper
156	156	100		
77	77	145.9	0.0	293.6
158	158	96.3	0.0	192.6

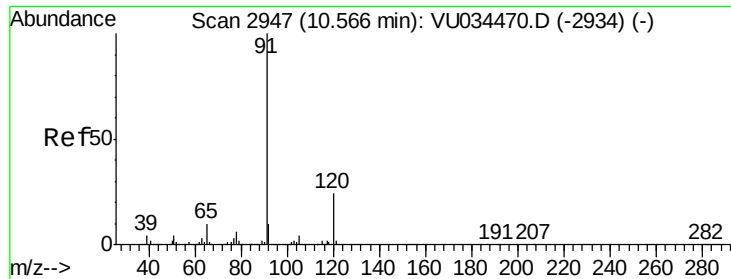


Abundance Ion 156.00 (155.70 to 156.70): VU034470.D (-2892) (-)

Ion 77.00 (76.70 to 77.70): VU034470.D (-2892) (-)

Ion 158.00 (157.70 to 158.70): VU034470.D (-2892) (-)





#73

n-propylbenzene

Concen: 5.509 ug/l

RT: 10.57 min Scan# 2947

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

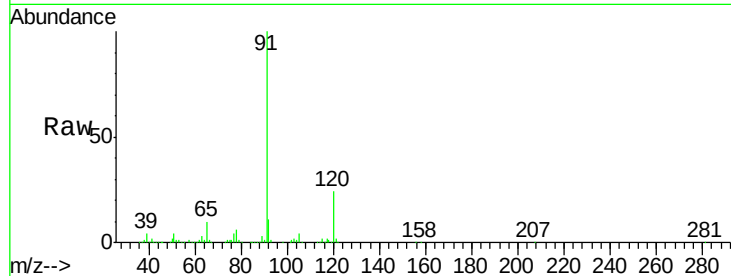
Tot Ion:120 Resp: 127594

Ion Ratio Lower Upper

120 100

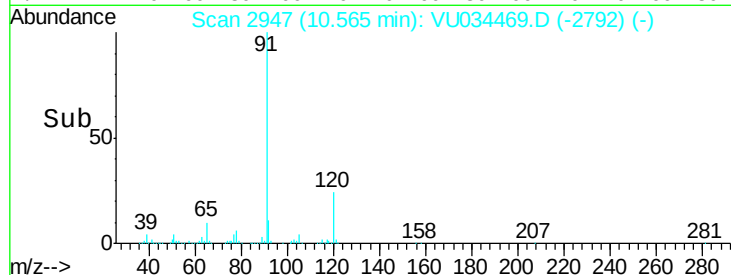
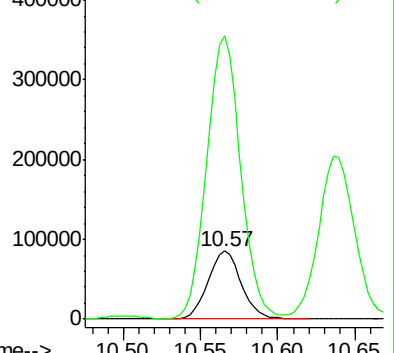
91 422.5 339.1 508.7

Manual Integrations
APPROVED



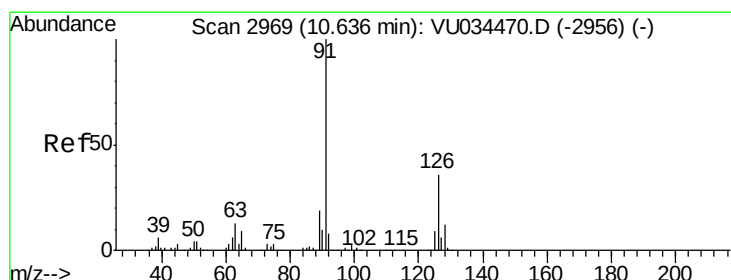
Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



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#74

2-Chlorotoluene

Concen: 5.454 ug/l

RT: 10.64 min Scan# 2970

Delta R.T. 0.00 min

Lab File: VU034469.D

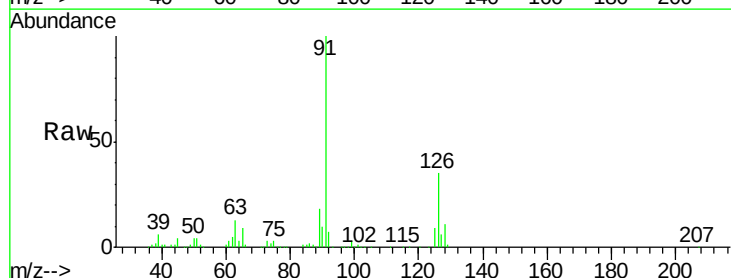
Acq: 11 Sep 2019 11:07

Tgt Ion:126 Resp: 114653

Ion Ratio Lower Upper

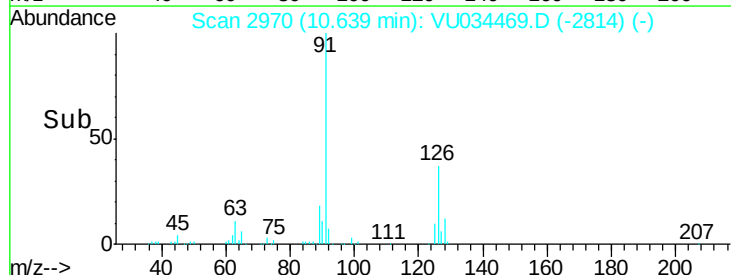
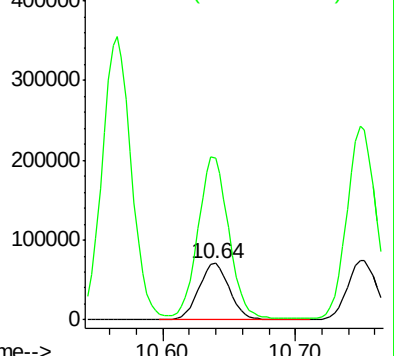
126 100

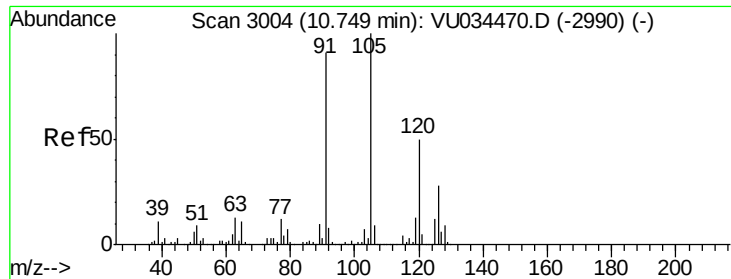
91 289.7 0.0 582.4



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 5.592 ug/l

RT: 10.75 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

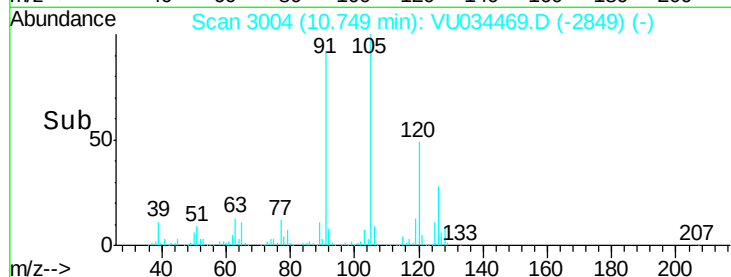
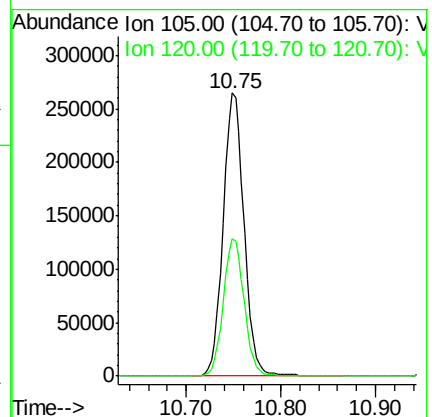
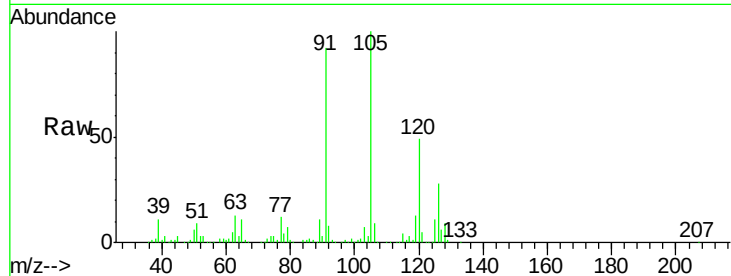
Tot Ion:105 Resp: 405477

Ion Ratio Lower Upper

105 100

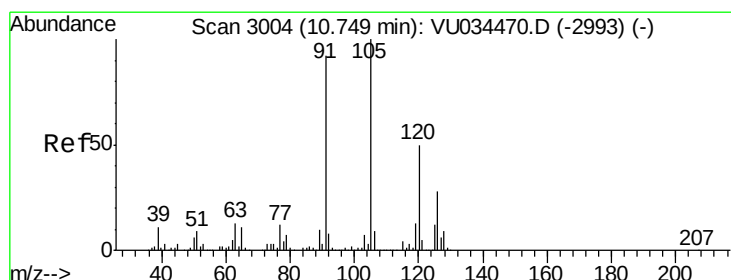
120 48.7 39.8 59.8

Manual Integrations
APPROVED



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#76

4-Chlorotoluene

Concen: 5.488 ug/l

RT: 10.75 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VU034469.D

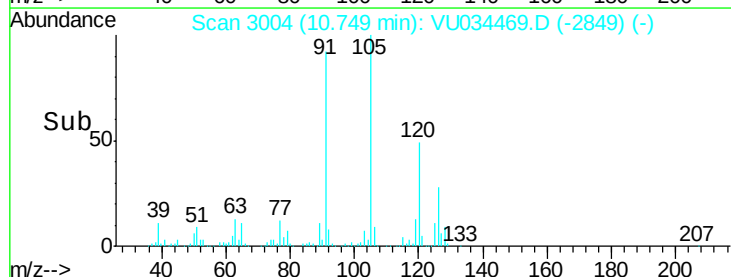
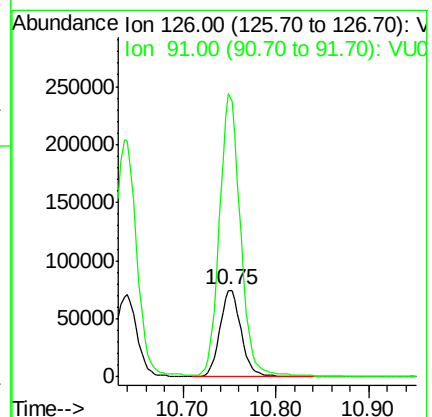
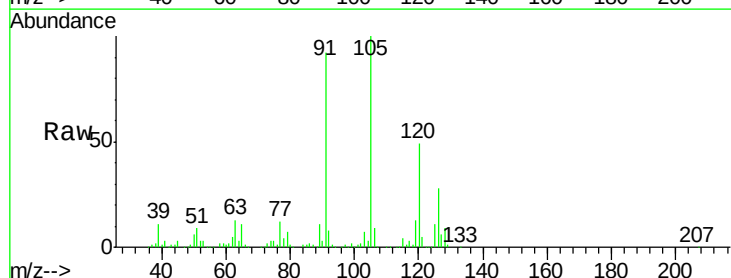
Acq: 11 Sep 2019 11:07

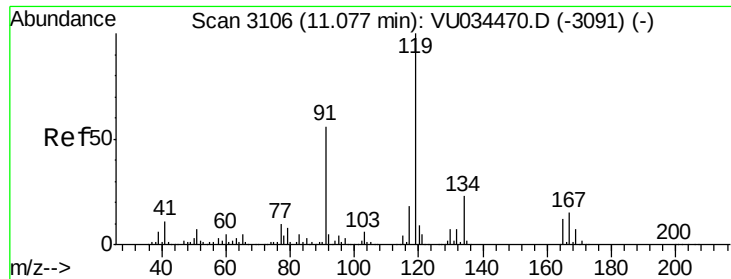
Tgt Ion:126 Resp: 119488

Ion Ratio Lower Upper

126 100

91 320.4 0.0 667.6



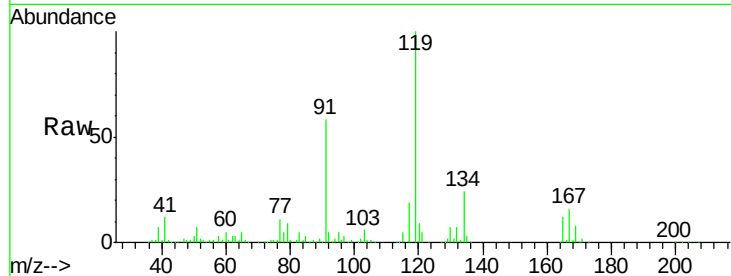


#77
 tert-Butylbenzene
 Concen: 5.384 ug/l
 RT: 11.08 min Scan# 3106
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

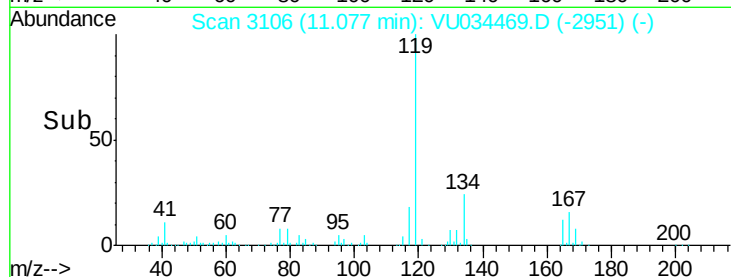
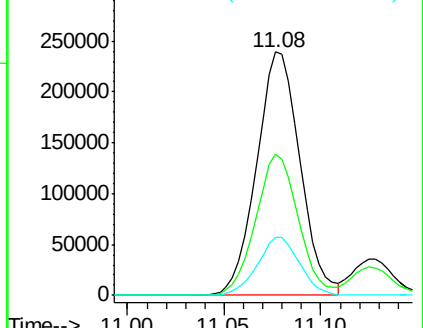
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	56.4	27.8	83.3
134	23.2	18.4	27.6

Manual Integrations
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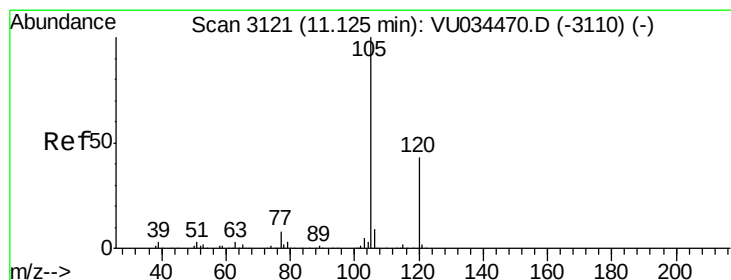


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V



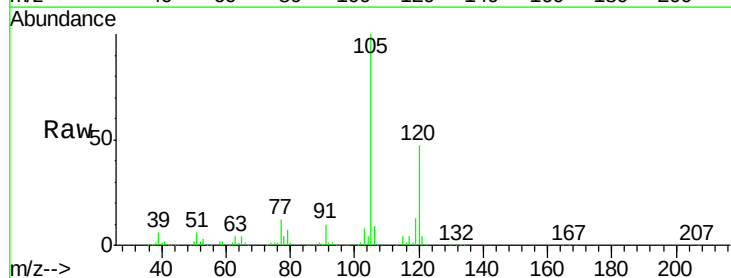
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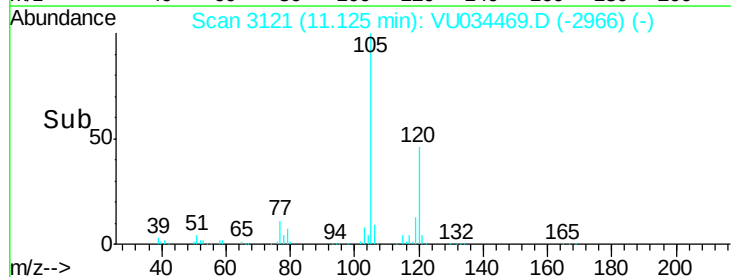
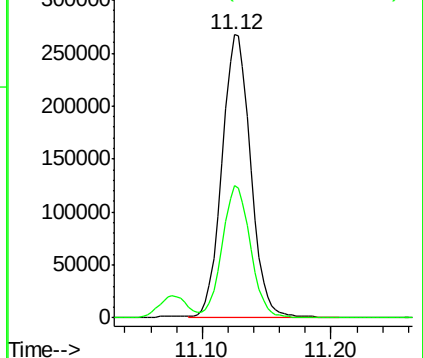


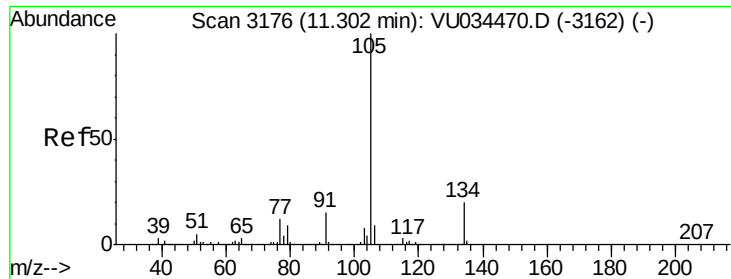
#78
 1,2,4-Trimethylbenzene
 Concen: 5.548 ug/l
 RT: 11.12 min Scan# 3121
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.1	69.2



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#79

sec-Butylbenzene

Concen: 5.424 ug/l

RT: 11.30 min Scan# 3176

Delta R.T. -0.00 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

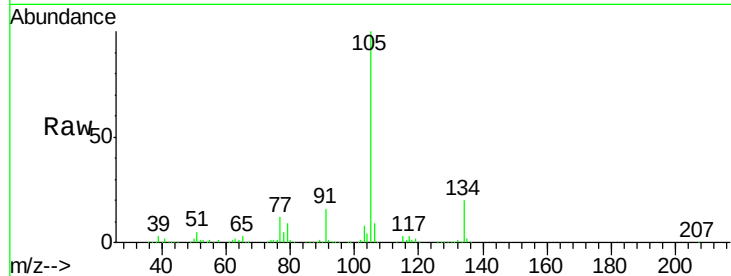
Tot Ion: 105 Resp: 513047

Ion Ratio Lower Upper

105 100

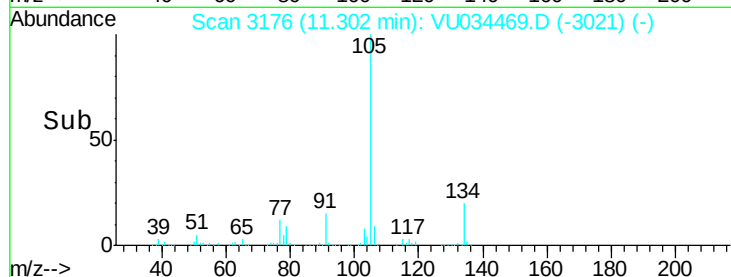
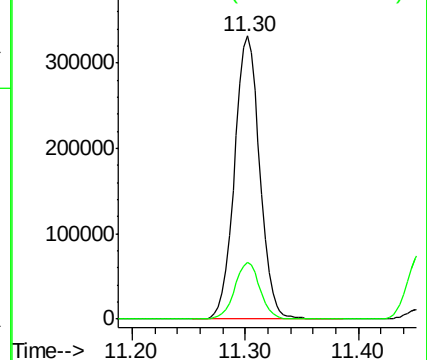
134 20.2 16.3 24.5

Manual Integrations
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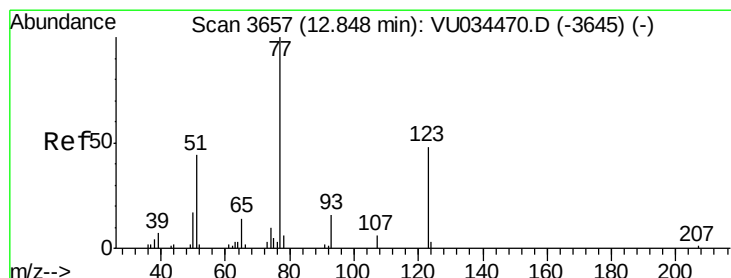
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



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#80

Nitrobenzene

Concen: 10.403 ug/l m

RT: 12.85 min Scan# 3659

Delta R.T. 0.01 min

Lab File: VU034469.D

Acq: 11 Sep 2019 11:07

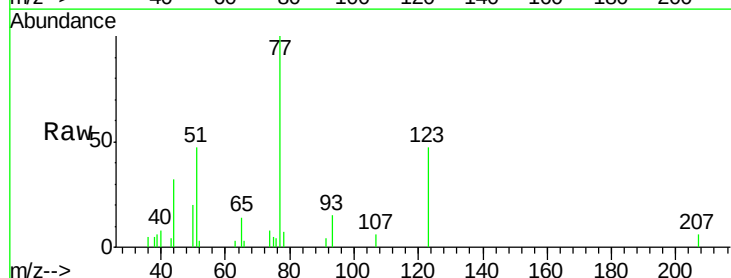
Tgt Ion: 77 Resp: 8610

Ion Ratio Lower Upper

77 100

123 1.1 19.0 67.4#

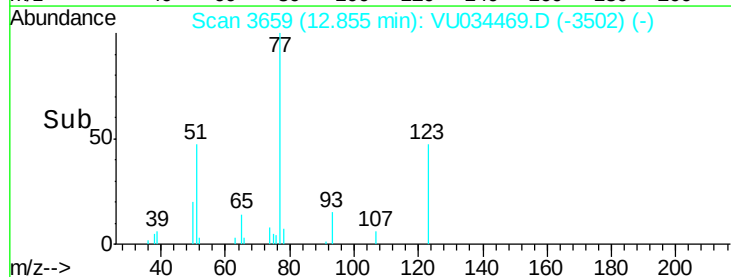
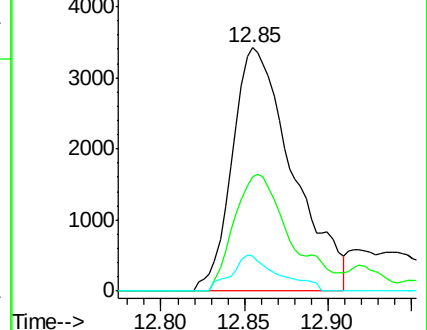
65 0.3 8.5 10.9#

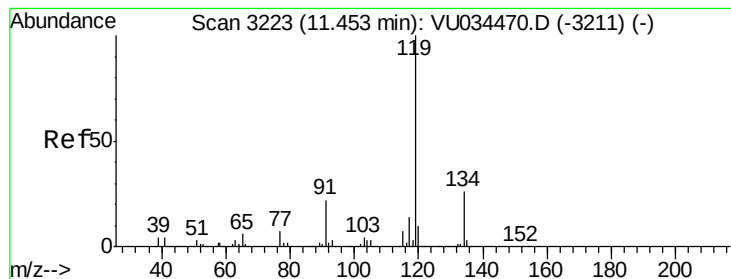


Abundance Ion 77.00 (76.70 to 77.70): VU0

Ion 123.00 (122.70 to 123.70): V

Ion 65.00 (64.70 to 65.70): VU0



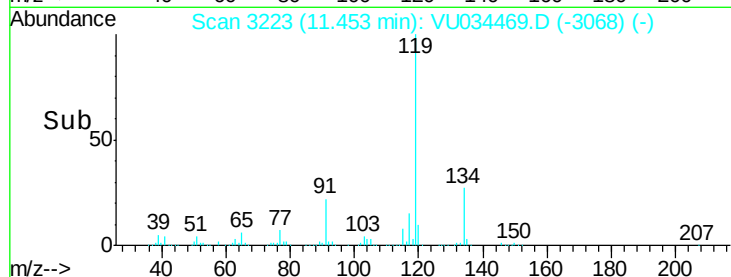
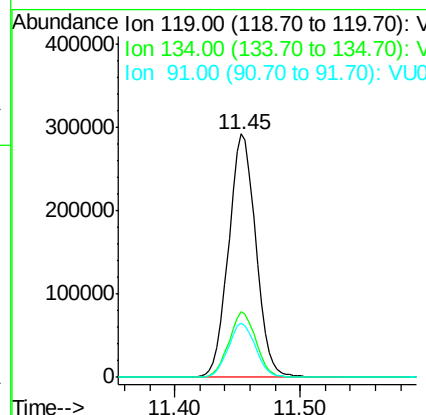
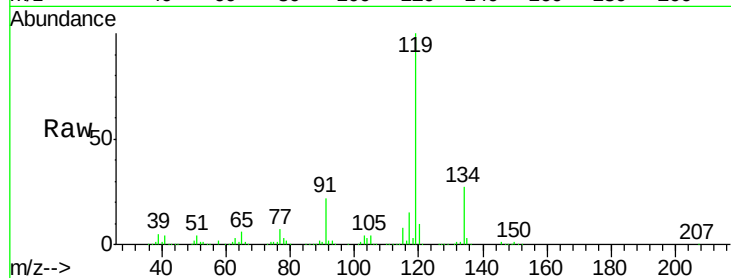


#81
 p-Isopropyltoluene
 Concen: 5.653 ug/l
 RT: 11.45 min Scan# 3223
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

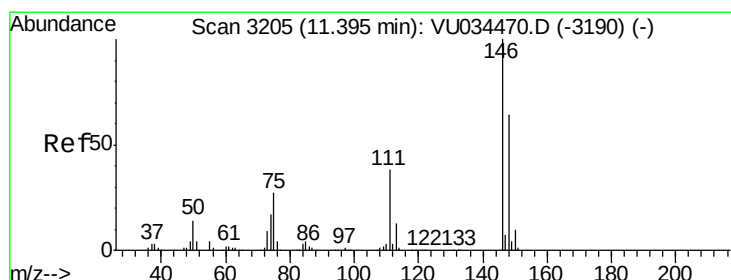
Tot Ion	Ratio	Resp	Lower	Upper
119	100	437137		
134	26.7		21.2	31.8
91	22.2		17.6	26.4

Manual Integrations
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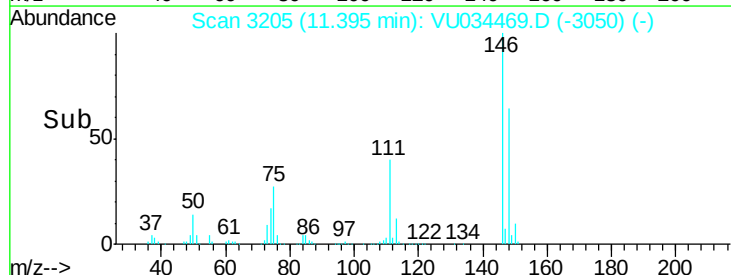
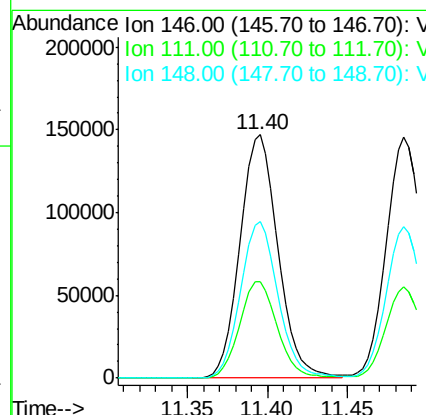
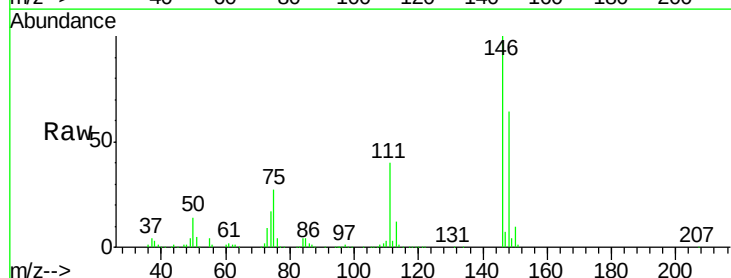
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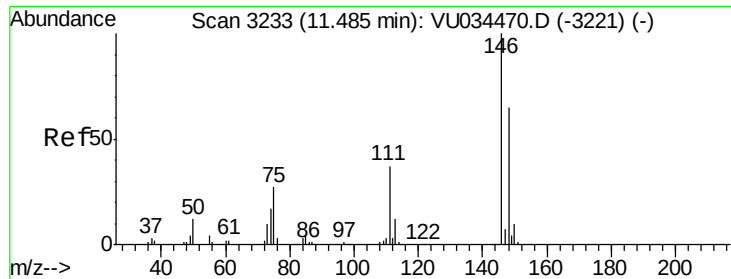
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#82
 1,3-Dichlorobenzene
 Concen: 5.227 ug/l
 RT: 11.40 min Scan# 3205
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	237636		
111	39.6		31.0	46.6
148	63.9		51.5	77.3



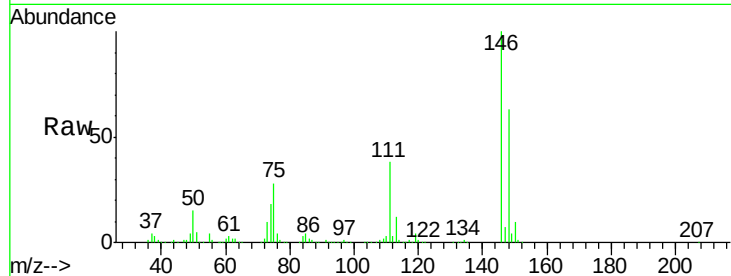


#83
 1,4-Dichlorobenzene
 Concen: 5.292 ug/l
 RT: 11.49 min Scan# 3233
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

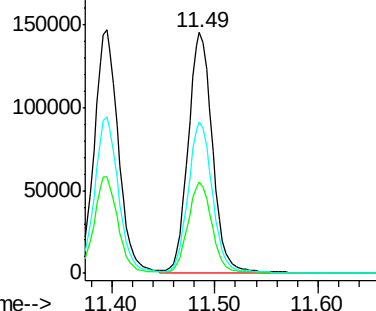
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:	146	Resp:	237508
Ion Ratio	Lower	Upper	
146	100		
111	37.5	29.5	44.3
148	63.1	51.0	76.4

Manual Integrations
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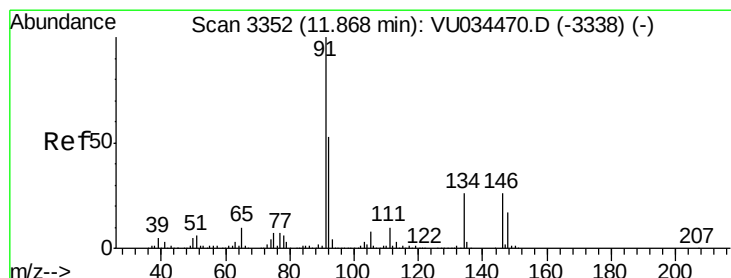
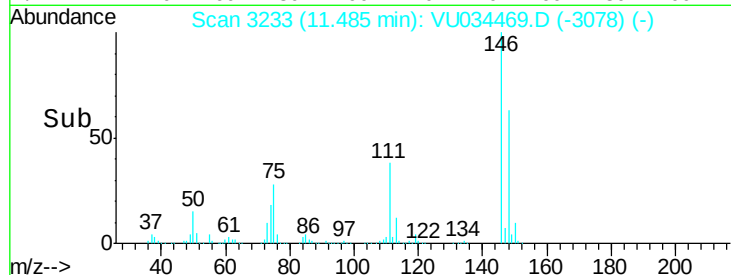


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V



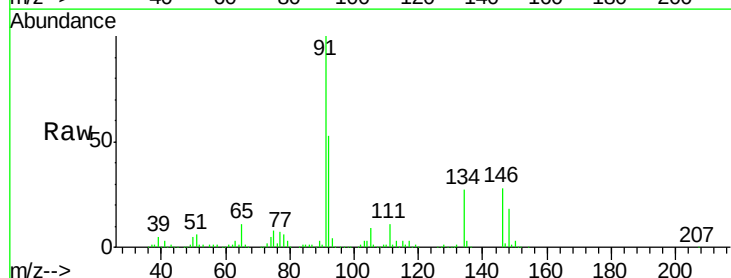
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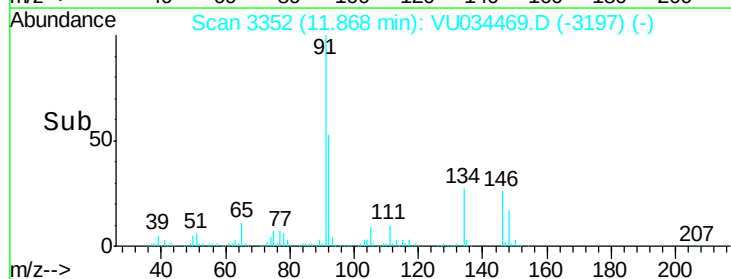
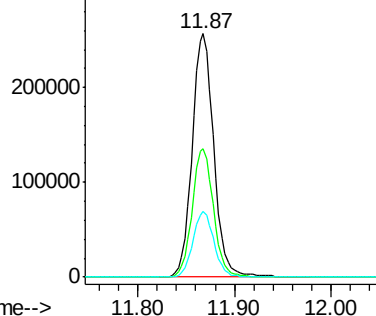


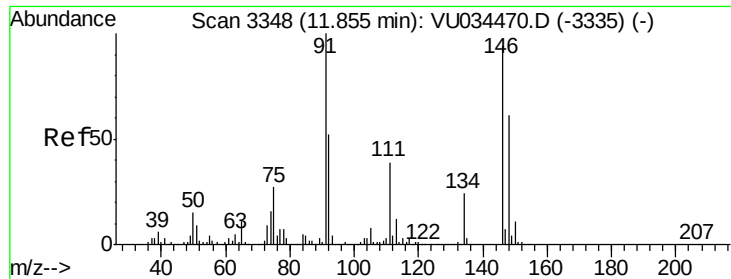
#84
 n-Butylbenzene
 Concen: 5.083 ug/l
 RT: 11.87 min Scan# 3352
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Tgt Ion:	91	Resp:	396241
Ion Ratio	Lower	Upper	
91	100		
92	52.5	42.4	63.6
134	26.6	21.0	31.4



Abundance Ion 91.00 (90.70 to 91.70): VU0
 Ion 92.00 (91.70 to 92.70): VU0
 Ion 134.00 (133.70 to 134.70): V



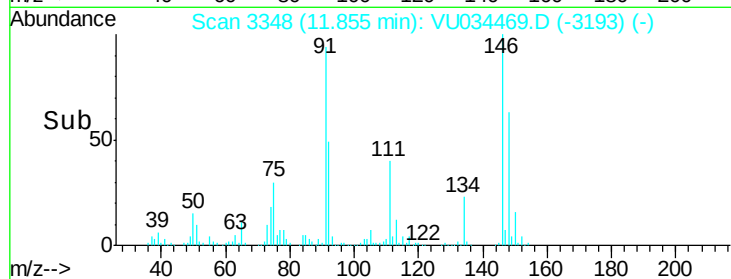
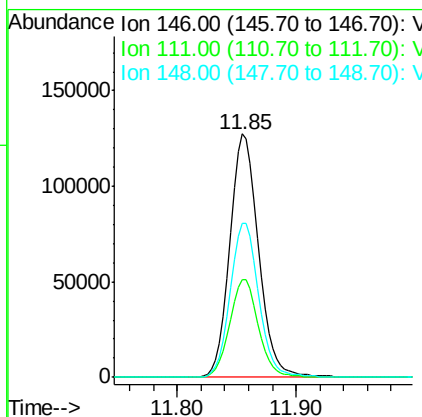
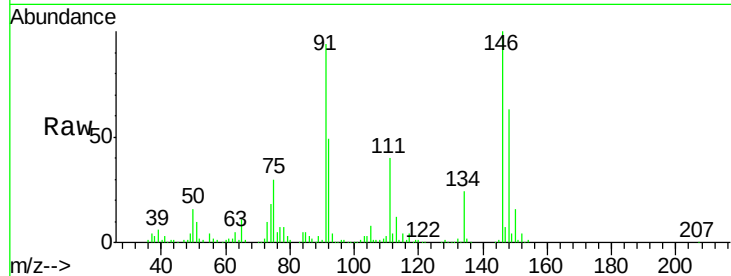


#85
 1,2-Dichlorobenzene
 Concen: 5.046 ug/l
 RT: 11.85 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

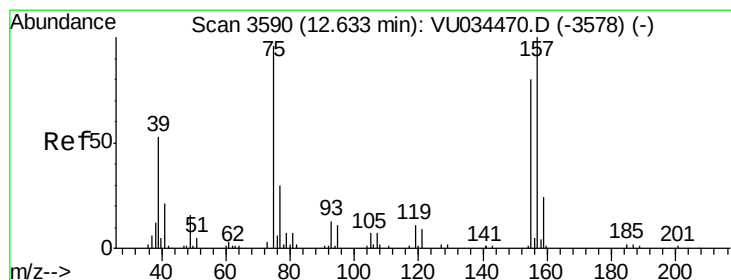
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.3	60.8
148	63.4	32.2	96.6

Manual Integrations
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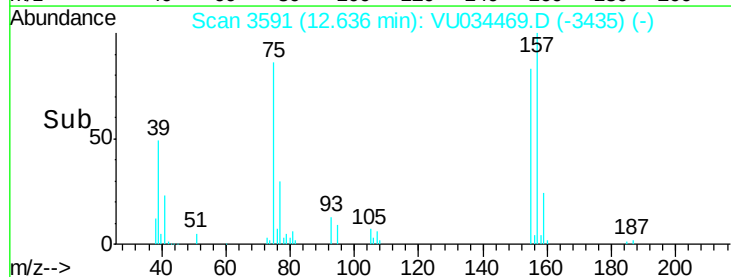
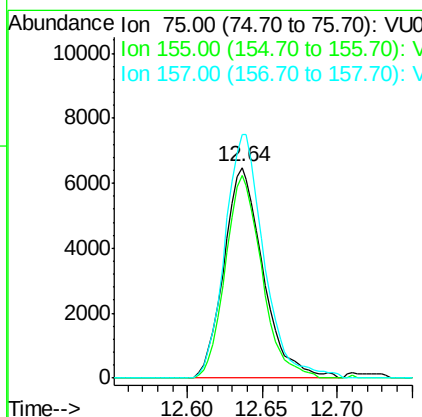
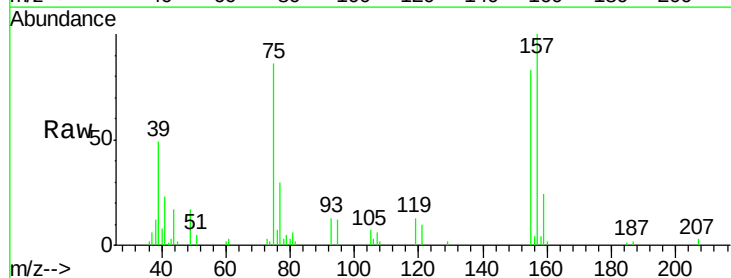
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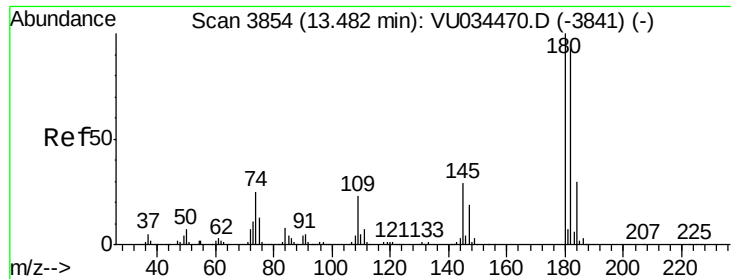
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#86
 1,2-Dibromo-3-Chloropropane
 Concen: 3.726 ug/l
 RT: 12.64 min Scan# 3591
 Delta R.T. 0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.7	68.9	103.3
157	115.4	89.9	134.9



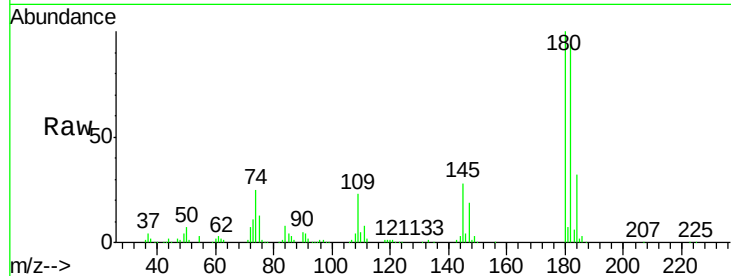


#87
 1,2,4-Trichlorobenzene
 Concen: 5.061 ug/l
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

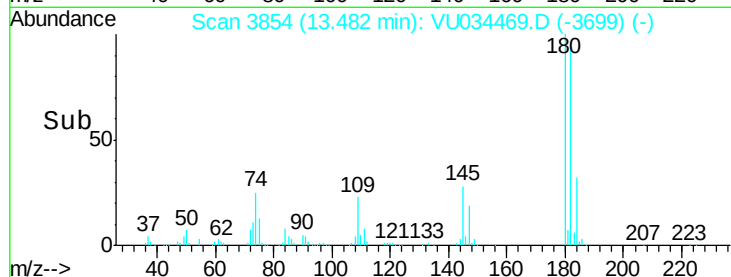
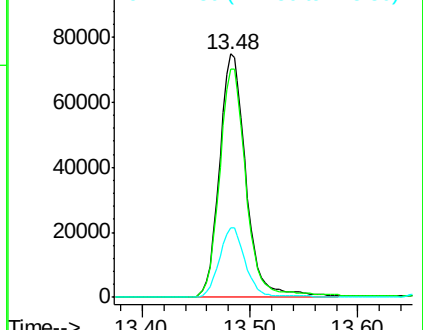
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100	127807		
182	94.5	76.6	114.8	
145	27.8	23.0	34.6	

Manual Integrations
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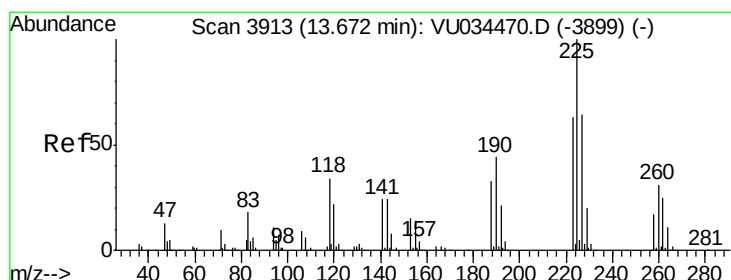


Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



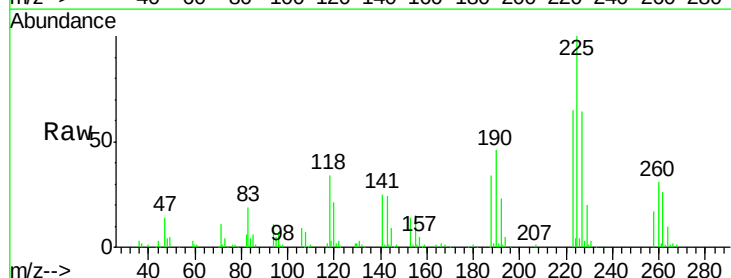
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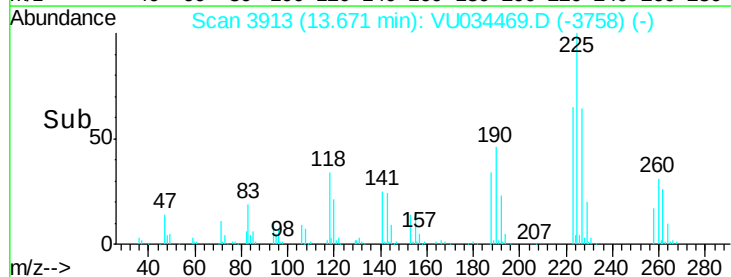
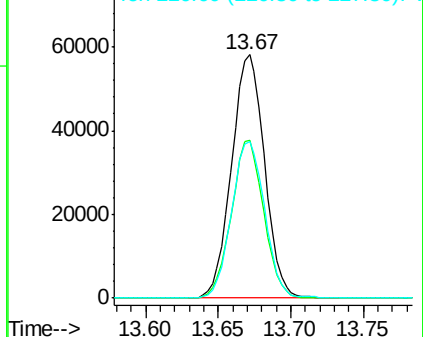


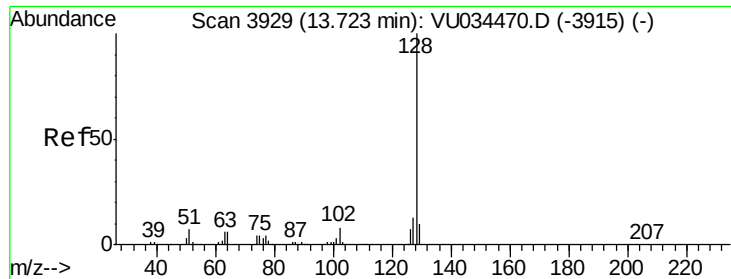
#88
 Hexachlorobutadiene
 Concen: 5.682 ug/l
 RT: 13.67 min Scan# 3913
 Delta R.T. -0.00 min
 Lab File: VU034469.D
 Acq: 11 Sep 2019 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	91802		
223	63.2	50.3	75.5	
227	64.6	51.1	76.7	



Abundance Ion 224.60 (224.30 to 225.30): V
 Ion 222.60 (222.30 to 223.30): V
 Ion 226.60 (226.30 to 227.30): V



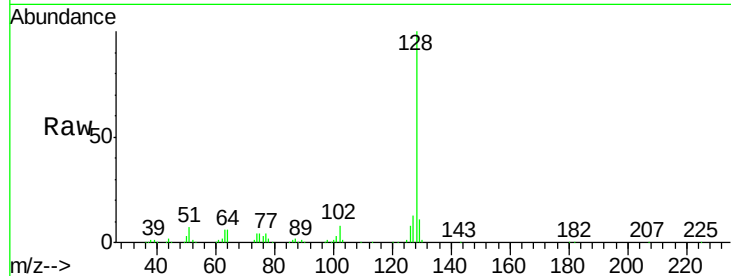


#89
Naphthalene
Concen: 3.959 ug/l
RT: 13.72 min Scan# 3929
Delta R.T. -0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

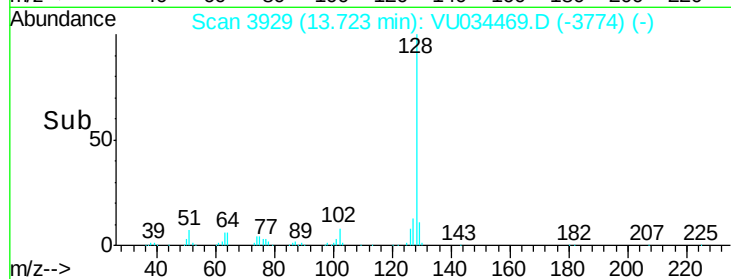
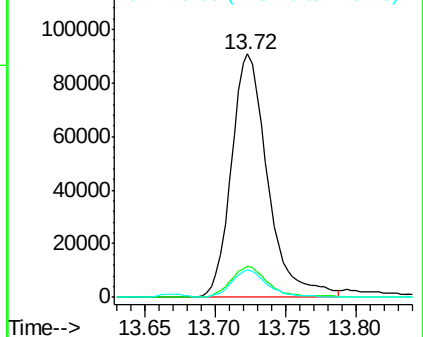
Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:	128	Resp:	164449
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.2	15.2
129	10.4	8.0	12.0

Manual Integrations
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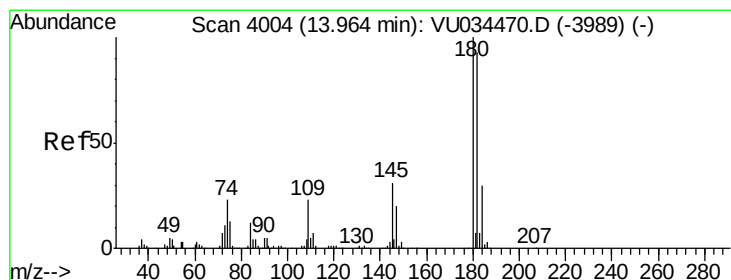


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



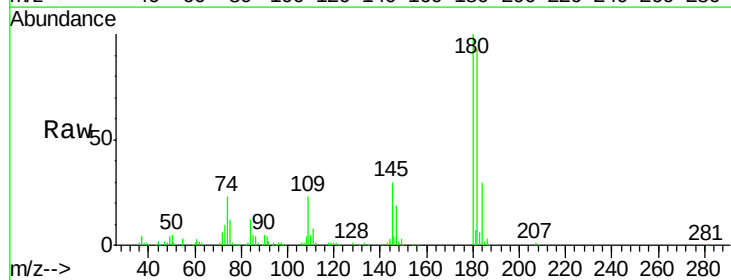
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#90
1,2,3-Trichlorobenzene
Concen: 4.873 ug/l
RT: 13.97 min Scan# 4005
Delta R.T. 0.00 min
Lab File: VU034469.D
Acq: 11 Sep 2019 11:07

Tgt Ion:	180	Resp:	118751
Ion Ratio	Lower	Upper	
180	100		
182	96.0	75.4	113.2
145	30.6	24.5	36.7



Abundance Ion 179.70 (179.40 to 180.40): V
Ion 181.70 (181.40 to 182.40): V
Ion 144.80 (144.50 to 145.50): V

