

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091219\
 Data File : VU034506.D
 Acq On : 12 Sep 2019 09:27
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 9/16/2019 11:16:27 AM

Quant Time: Sep 13 07:24:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	262136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	360921	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	363158	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	250206	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	190980	48.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.30%	
35) Dibromofluoromethane	4.86	113	170814	50.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.72%	
50) Toluene-d8	7.54	98	645888	51.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.38%	
62) 4-Bromofluorobenzene	10.29	95	247039	50.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.42%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	125874	45.913	ug/l	96
3) Chloromethane	1.32	50	145108	48.990	ug/l	97
4) Vinyl Chloride	1.40	62	151620	44.381	ug/l	100
5) Bromomethane	1.61	94	90206	52.214	ug/l	99
6) Chloroethane	1.68	64	101638	51.211	ug/l	98
7) Trichlorofluoromethane	1.87	101	222827	48.645	ug/l	100
8) Diethyl Ether	2.09	74	97418	48.349	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.27	101	149949	49.424	ug/l	99
10) Methyl Iodide	2.40	142	131884	47.705	ug/l	100
11) Tert butyl alcohol	2.81	59	219957	262.506	ug/l	98
12) 1,1-Dichloroethene	2.27	96	134794	47.262	ug/l	97
13) Acrolein	2.18	56	145930	207.211	ug/l	99
14) Allyl chloride	2.58	41	251312m	46.091	ug/l	
15) Acrylonitrile	2.92	53	530325	254.158	ug/l	98
16) Acetone	2.31	43	560545	273.106	ug/l	98
17) Carbon Disulfide	2.46	76	260771	40.682	ug/l	99
18) Methyl Acetate	2.60	43	235887	47.232	ug/l	98
19) Methyl tert-butyl Ether	2.98	73	530341	51.016	ug/l	99
20) Methylene Chloride	2.68	84	175749	52.296	ug/l	98
21) trans-1,2-Dichloroethene	2.96	96	141880	47.207	ug/l	99
22) Diisopropyl ether	3.55	45	549390	51.667	ug/l	99
23) Vinyl Acetate	3.50	43	2217079	255.970	ug/l	99
24) 1,1-Dichloroethane	3.42	63	305403	48.094	ug/l	100
25) 2-Butanone	4.23	43	738225	269.445	ug/l	100
26) 2,2-Dichloropropane	4.20	77	256074	50.139	ug/l	100
27) cis-1,2-Dichloroethene	4.20	96	181593	49.748	ug/l	99
28) Bromochloromethane	4.52	49	151123	51.740	ug/l	100
29) Tetrahydrofuran	4.61	42	422501	253.422	ug/l	99
30) Chloroform	4.65	83	318698	49.375	ug/l	100
31) Cyclohexane	4.97	56	206673	44.487	ug/l	99
32) 1,1,1-Trichloroethane	4.89	97	257114	49.822	ug/l	99
36) 1,1-Dichloropropene	5.11	75	197386	50.428	ug/l	100
37) Ethyl Acetate	4.36	43	241375	52.157	ug/l	99
38) Carbon Tetrachloride	5.11	117	220914	52.859	ug/l	99

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	204912	48.972	ug/l	99
40) Benzene	5.37	78	658674	52.150	ug/l	99
41) Methacrylonitrile	4.52	41	134815	54.690	ug/l	99
42) 1,2-Dichloroethane	5.38	62	230628	52.593	ug/l	100
43) Isopropyl Acetate	5.53	43	377599	52.303	ug/l	100
44) Trichloroethene	6.16	130	178116	50.962	ug/l	100
45) 1,2-Dichloropropane	6.41	63	191837	51.955	ug/l	97
46) Dibromomethane	6.54	93	124749	53.824	ug/l	99
47) Bromodichloromethane	6.73	83	257061	53.882	ug/l	100
48) Methyl methacrylate	6.60	41	180026	52.502	ug/l	99
49) 1,4-Dioxane	6.59	88	86534	1155.702	ug/l	98
51) 4-Methyl-2-Pentanone	7.44	43	1339673	268.080	ug/l	99
52) Toluene	7.61	92	423782	53.487	ug/l	99
53) t-1,3-Dichloropropene	7.86	75	266084	53.803	ug/l	99
54) cis-1,3-Dichloropropene	7.25	75	293575	54.087	ug/l	99
55) 1,1,2-Trichloroethane	8.04	97	194298	54.007	ug/l	98
56) Ethyl methacrylate	8.00	69	269439	49.338	ug/l	99
57) 1,3-Dichloropropane	8.22	76	309756	52.876	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.11	63	458204	247.930	ug/l	100
59) 2-Hexanone	8.34	43	1047093	280.479	ug/l	100
60) Dibromochloromethane	8.45	129	215235	55.777	ug/l	99
61) 1,2-Dibromoethane	8.57	107	190425	54.078	ug/l	100
64) Tetrachloroethene	8.21	164	162599	51.609	ug/l	97
65) Chlorobenzene	9.10	112	485023	52.643	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.19	131	188392	53.579	ug/l	99
67) Ethyl Benzene	9.23	91	807105	53.576	ug/l	99
68) m/p-Xylenes	9.35	106	644499	113.614	ug/l	100
69) o-Xylene	9.76	106	308863	55.674	ug/l	100
70) Styrene	9.77	104	569135	58.513	ug/l	100
71) Bromoform	9.94	173	169561	55.642	ug/l #	99
73) Isopropylbenzene	10.14	105	860873	52.870	ug/l	100
74) N-amyl acetate	9.99	43	346008	52.791	ug/l	100
75) 1,1,2,2-Tetrachloroethane	10.43	83	331324	50.270	ug/l	100
76) 1,2,3-Trichloropropane	10.47	75	282882m	51.795	ug/l	
77) Bromobenzene	10.43	156	236051	51.847	ug/l	98
78) n-propylbenzene	10.57	91	1010228	53.721	ug/l	99
79) 2-Chlorotoluene	10.64	91	602992	52.552	ug/l	100
80) 1,3,5-Trimethylbenzene	10.75	105	759096	55.742	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.49	75	76601m	47.167	ug/l	
82) 4-Chlorotoluene	10.75	91	711165	53.859	ug/l	100
83) tert-Butylbenzene	11.08	119	729305	53.534	ug/l	100
84) 1,2,4-Trimethylbenzene	11.13	105	769122	56.107	ug/l	100
85) sec-Butylbenzene	11.30	105	885321	55.047	ug/l	100
86) p-Isopropyltoluene	11.45	119	822552	55.411	ug/l	100
87) 1,3-Dichlorobenzene	11.40	146	438060	52.728	ug/l	99
88) 1,4-Dichlorobenzene	11.49	146	440509	50.835	ug/l	99
89) n-Butylbenzene	11.87	91	715466	55.462	ug/l	100
90) Hexachloroethane	12.12	117	125732	52.941	ug/l	99
91) 1,2-Dichlorobenzene	11.85	146	427420	52.348	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	66048	54.534	ug/l	99

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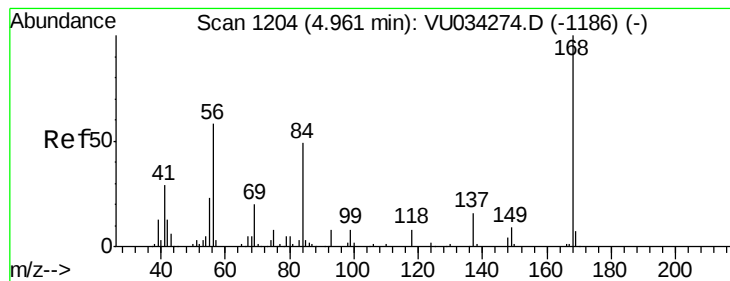
Manual Integrations
APPROVED

MMDadoda
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Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.48	180	291062	49.210	ug/l	98
94) Hexachlorobutadiene	13.67	225	147535	51.657	ug/l	100
95) Naphthalene	13.72	128	733860	44.483	ug/l	100
96) 1,2,3-Trichlorobenzene	13.96	180	280506	49.093	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 262136

Ion Ratio Lower Upper

168 100

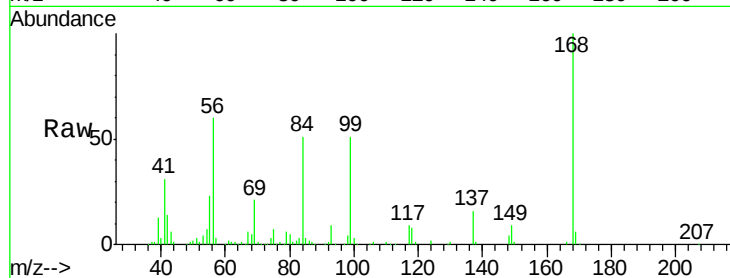
99 50.7 41.6 62.4

Manual Integrations

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

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

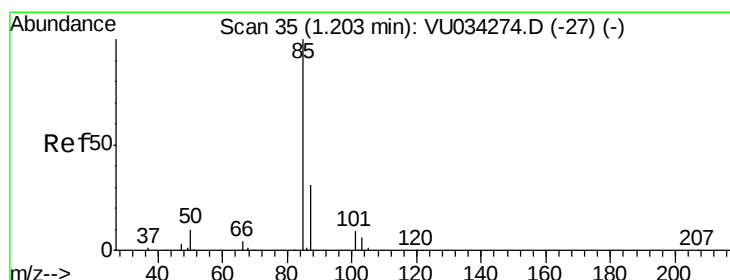
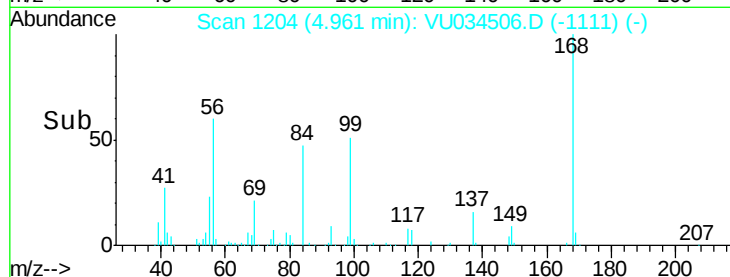
4.96

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 45.913 ug/l

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU034506.D

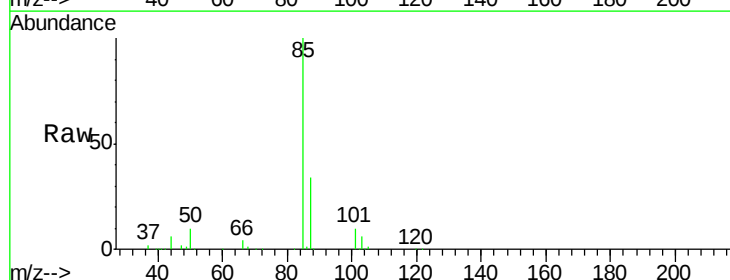
Acq: 12 Sep 2019 09:27

Tgt Ion: 85 Resp: 125874

Ion Ratio Lower Upper

85 100

87 33.6 15.7 47.0



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

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

1.20

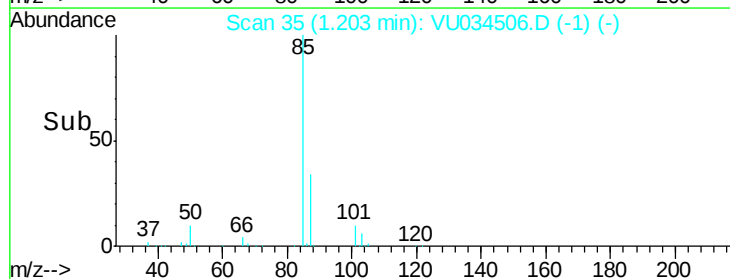
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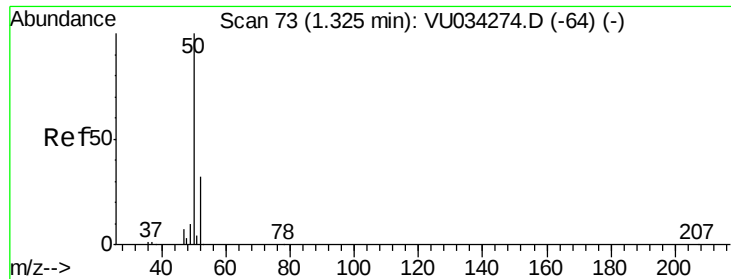
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50000

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Time-->





#3

Chloromethane

Concen: 48.990 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 145108

Ion Ratio Lower Upper

50 100

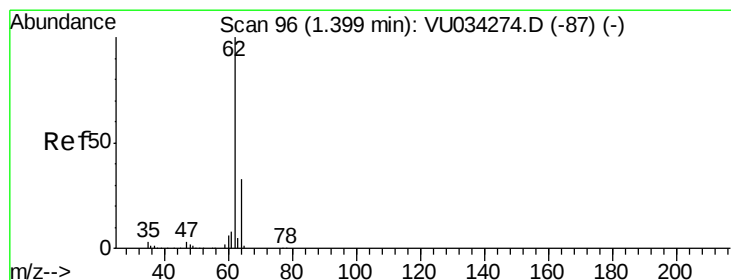
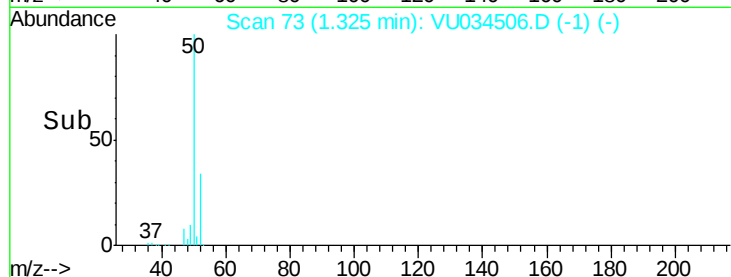
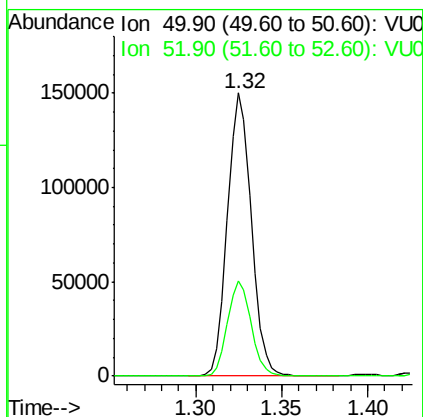
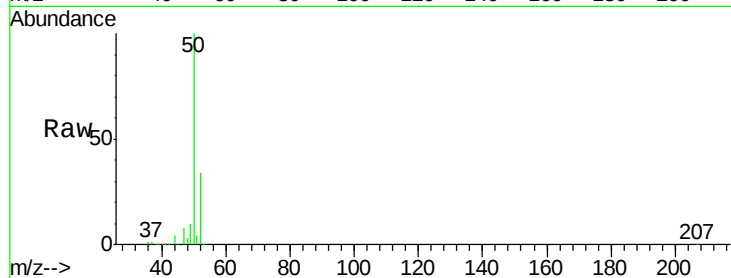
52 33.8 25.8 38.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 44.381 ug/l

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU034506.D

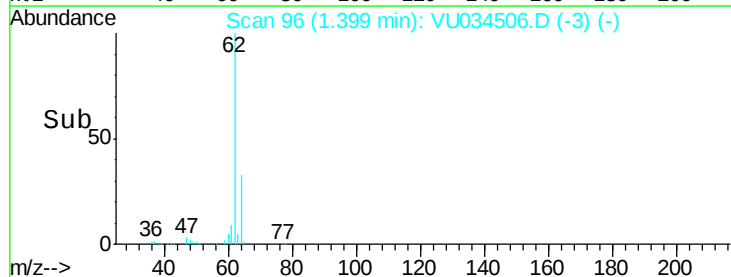
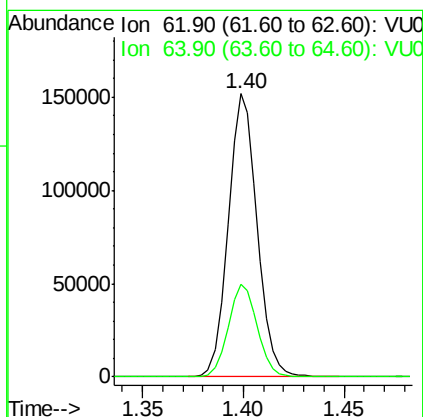
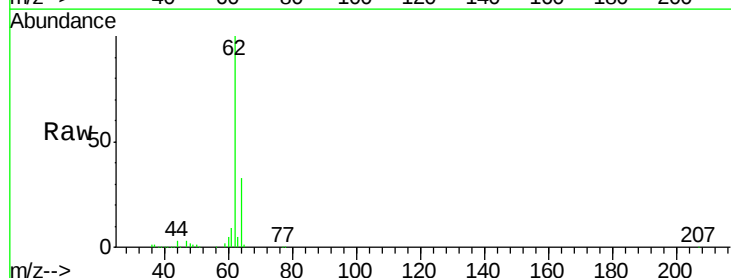
Acq: 12 Sep 2019 09:27

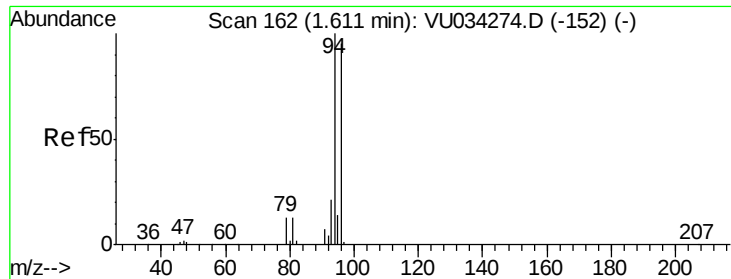
Tgt Ion: 62 Resp: 151620

Ion Ratio Lower Upper

62 100

64 32.6 26.2 39.4





#5

Bromomethane

Concen: 52.214 ug/l

RT: 1.61 min Scan# 161

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 90206

Ion Ratio Lower Upper

94 100

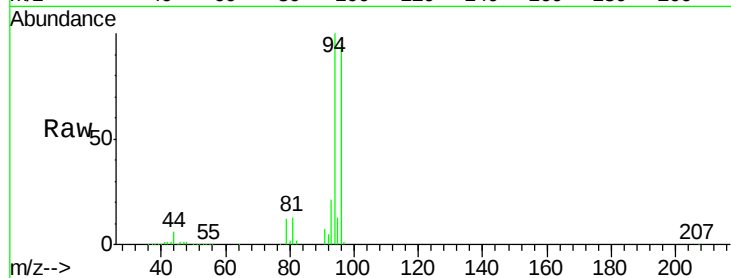
96 95.1 75.7 113.5

Manual Integrations

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9/16/2019 11:16:27 AM



Abundance Ion 93.90 (93.60 to 94.60): VU034274.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

80000

60000

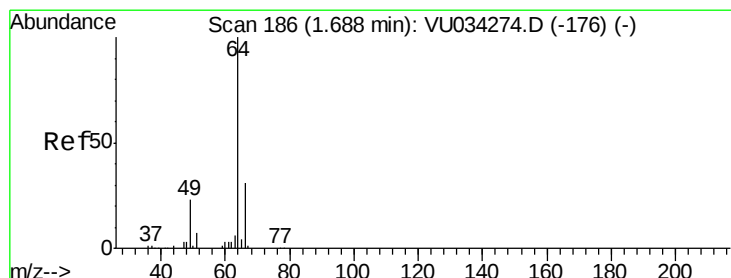
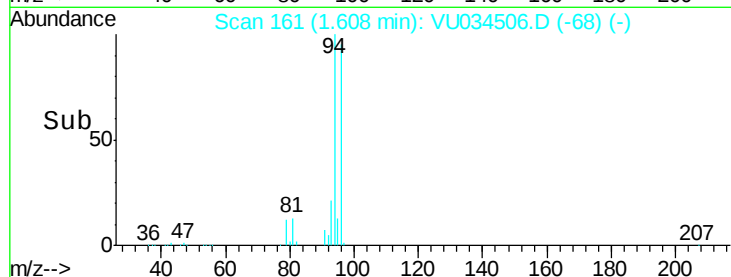
40000

20000

0

1.55 1.60 1.65

Time-->



#6

Chloroethane

Concen: 51.211 ug/l

RT: 1.68 min Scan# 185

Delta R.T. -0.00 min

Lab File: VU034506.D

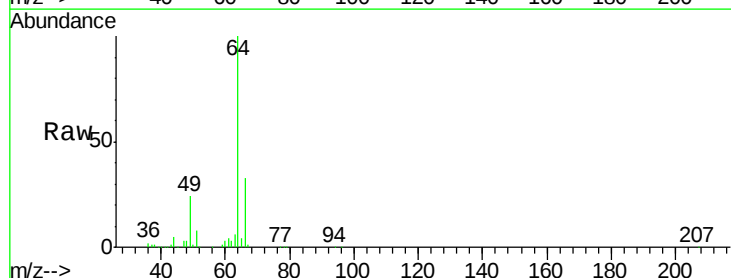
Acq: 12 Sep 2019 09:27

Tgt Ion: 64 Resp: 101638

Ion Ratio Lower Upper

64 100

66 32.7 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU034274.D (-176) (-)

Ion 65.90 (65.60 to 66.60): VU034274.D (-176) (-)

80000

60000

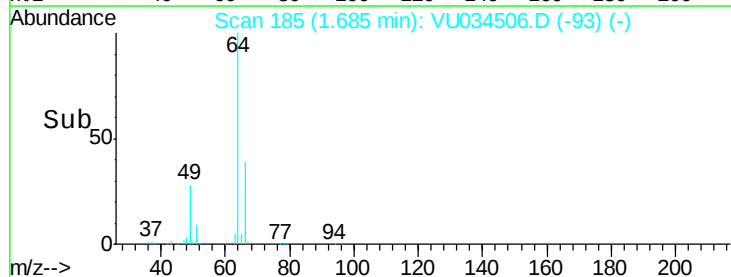
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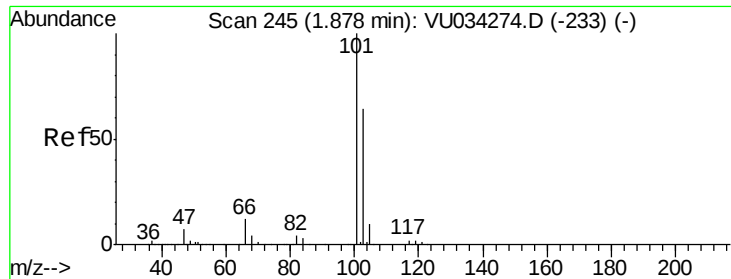
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1.60 1.65 1.70 1.75

Time-->





#7

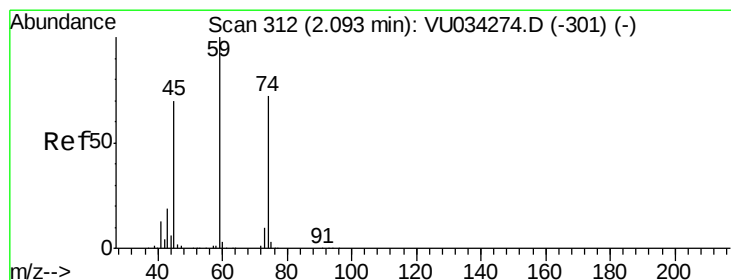
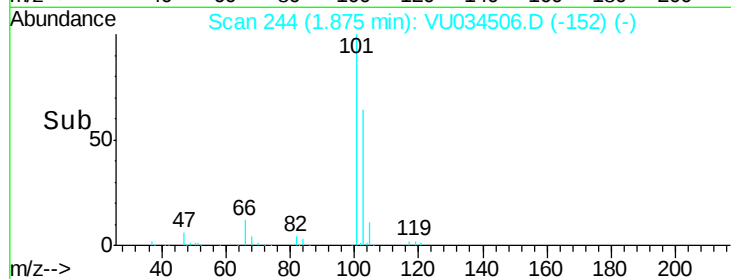
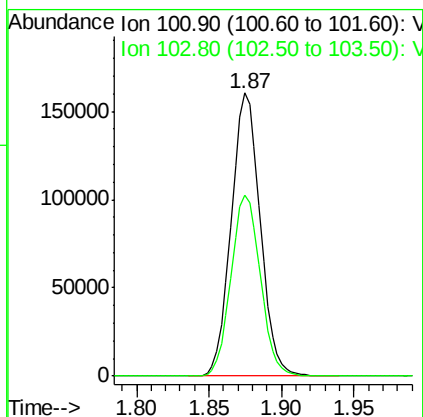
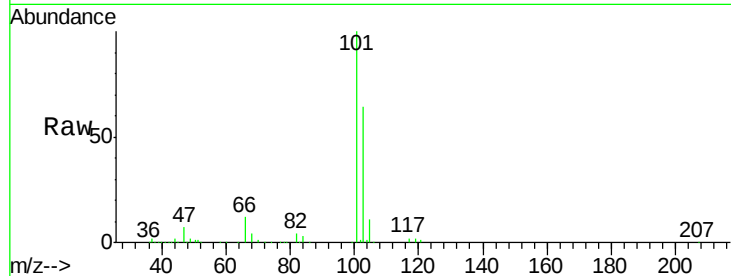
Trichlorofluoromethane
 Concen: 48.645 ug/l
 RT: 1.87 min Scan# 244
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.0	76.6

Manual Integrations
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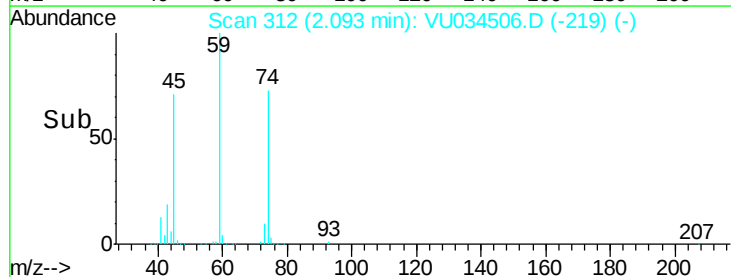
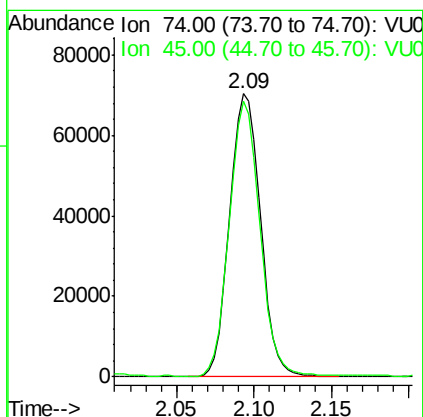
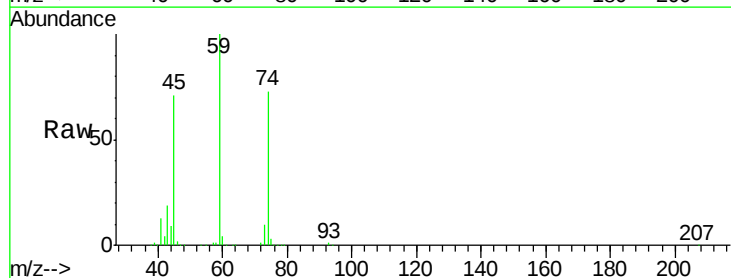
MMDadoda
 9/16/2019 11:16:27 AM

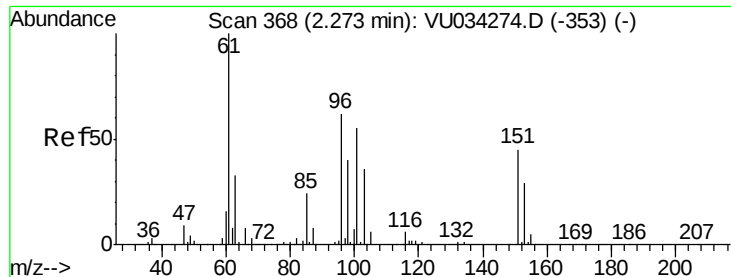


#8

Diethyl Ether
 Concen: 48.349 ug/l
 RT: 2.09 min Scan# 312
 Delta R.T. 0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.0	48.2	144.6





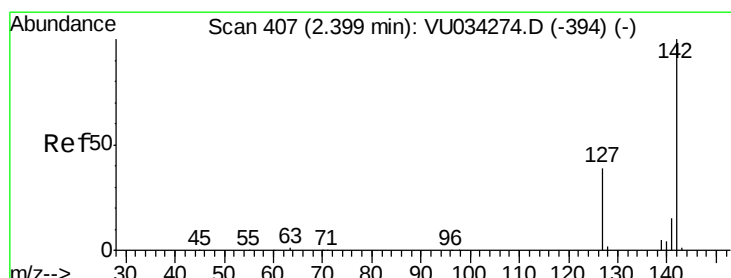
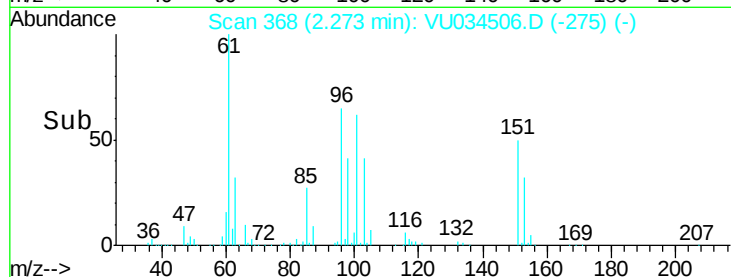
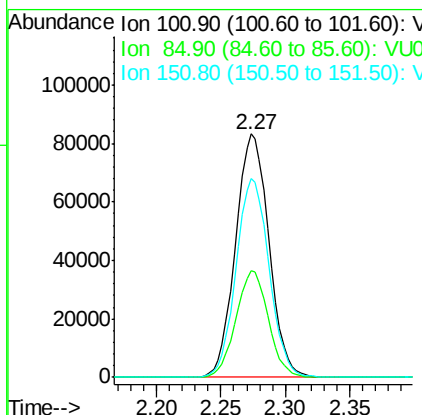
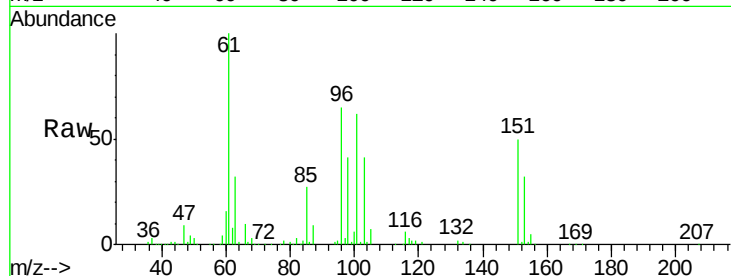
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 49.424 ug/l
 RT: 2.27 min Scan# 368
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Instrument :
 MSVOA_U
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	149949		
85	42.5		34.4	51.6
151	80.8		64.4	96.6

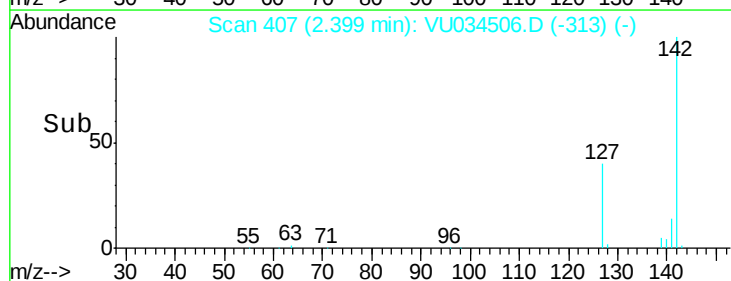
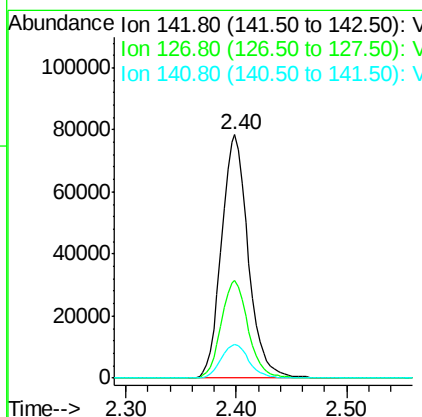
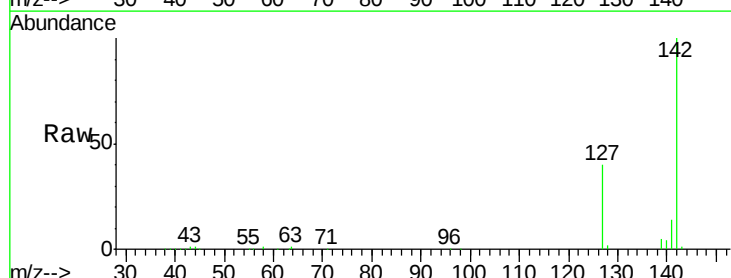
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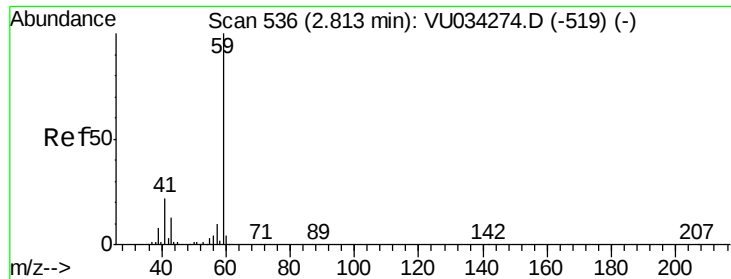
MMDadoda
 9/16/2019 11:16:27 AM



#10
 Methyl Iodide
 Concen: 47.705 ug/l
 RT: 2.40 min Scan# 407
 Delta R.T. 0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	131884		
127	40.3		32.1	48.1
141	14.5		11.5	17.3





#11

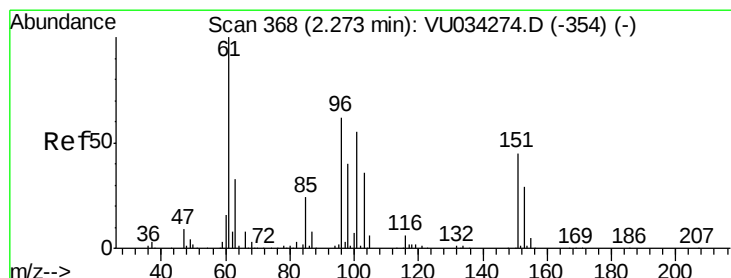
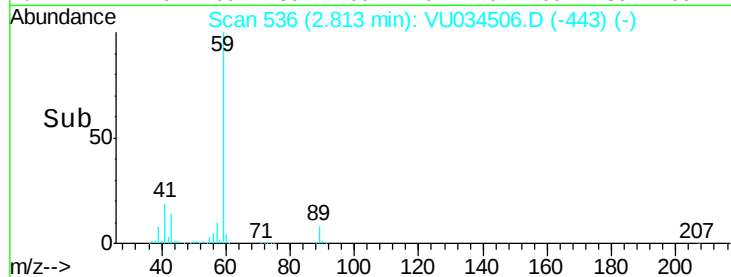
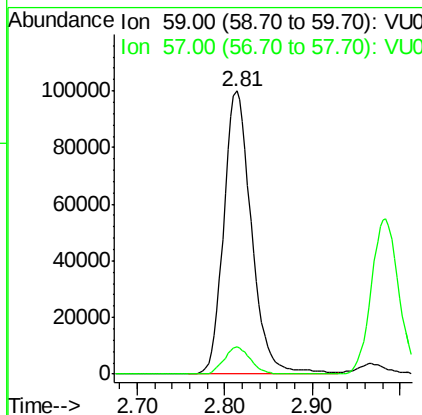
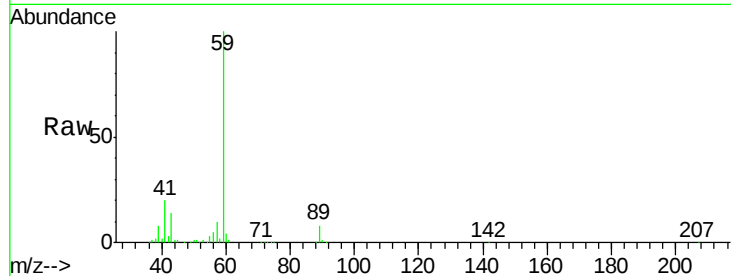
Tert butyl alcohol
 Concen: 262.506 ug/l
 RT: 2.81 min Scan# 536
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
59	100	219957		
57	9.3		7.9	11.9

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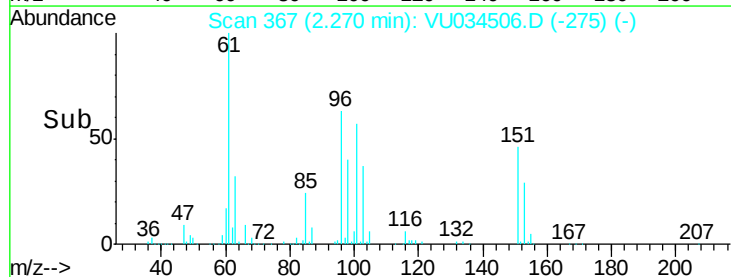
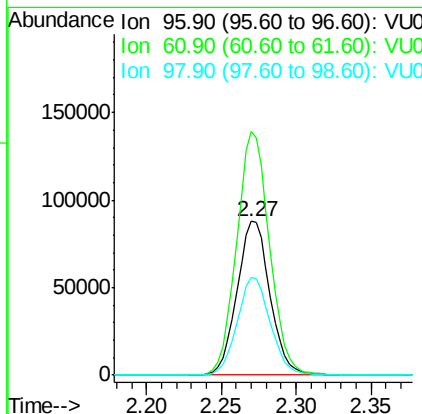
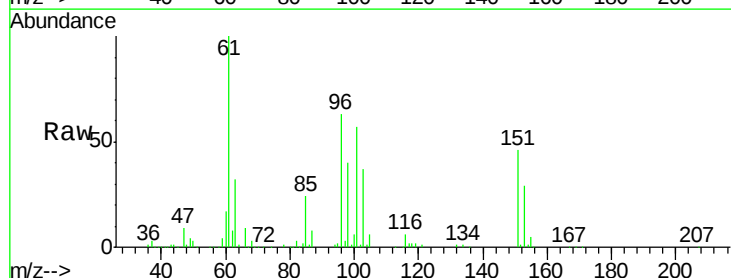
MMDadoda
 9/16/2019 11:16:27 AM

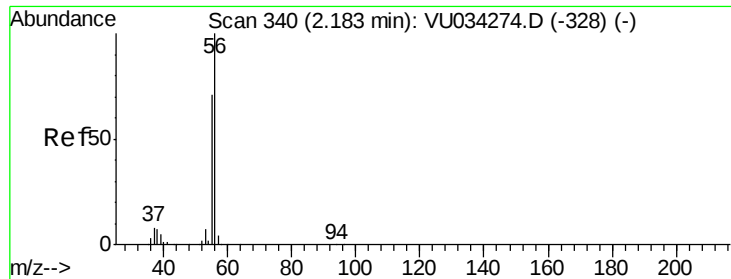


#12

1,1-Dichloroethene
 Concen: 47.262 ug/l
 RT: 2.27 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	134794		
61	158.3		130.0	195.0
98	63.2		52.2	78.4





#13

Acrolein

Concen: 207.211 ug/l

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 145930

Ion Ratio Lower Upper

56 100

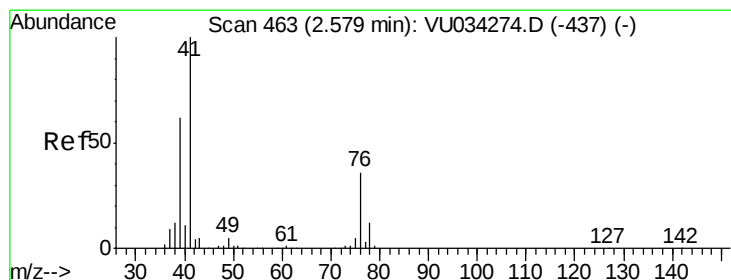
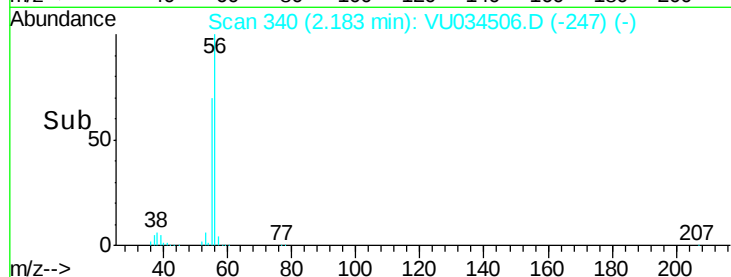
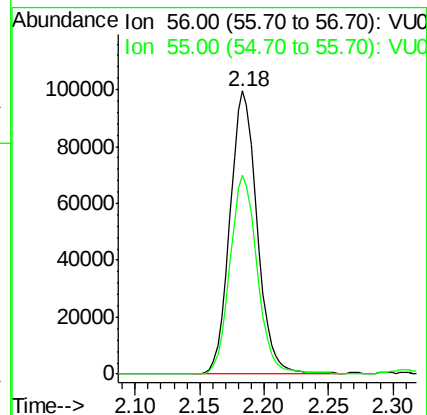
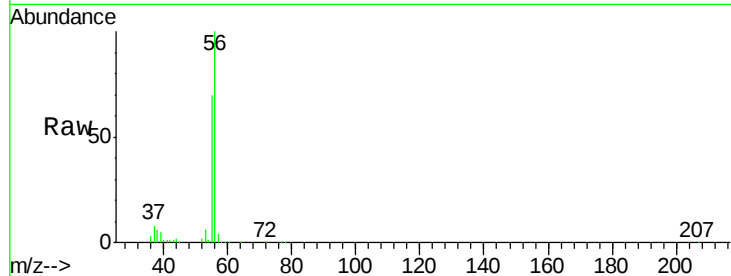
55 70.6 57.4 86.2

Manual Integrations

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#14

Allyl chloride

Concen: 46.091 ug/l m

RT: 2.58 min Scan# 463

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

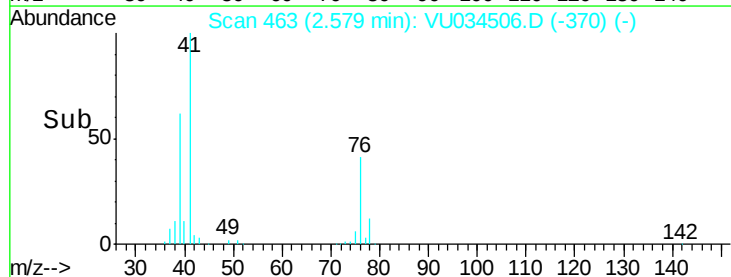
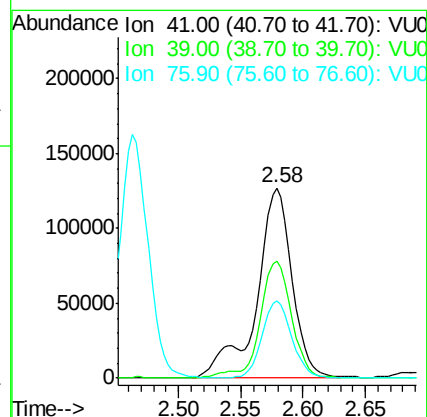
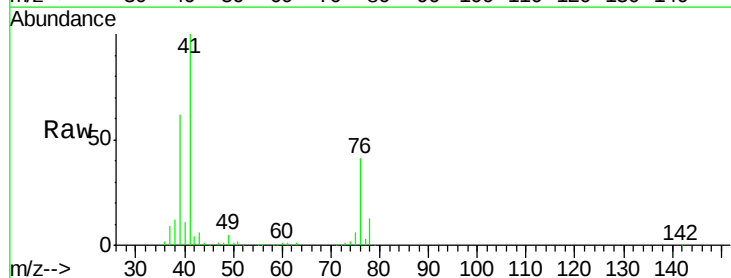
Tgt Ion: 41 Resp: 251312

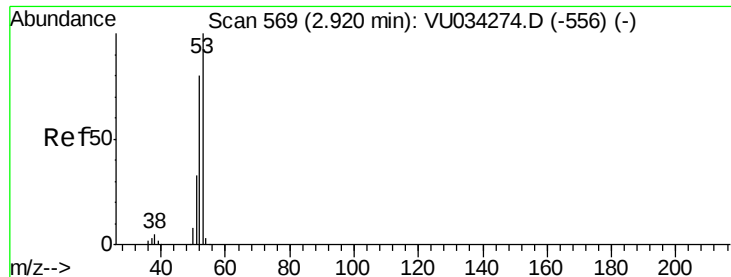
Ion Ratio Lower Upper

41 100

39 54.4 43.5 65.3

76 33.9 27.0 40.6





#15

Acrylonitrile

Concen: 254.158 ug/l

RT: 2.92 min Scan# 568

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

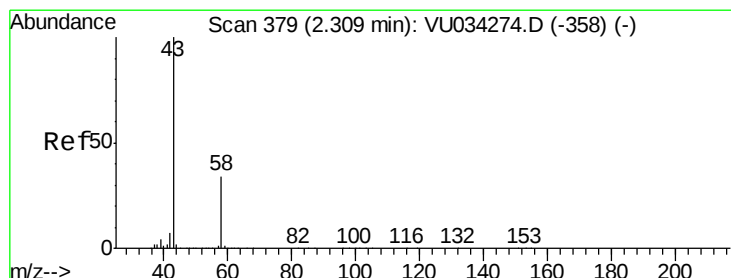
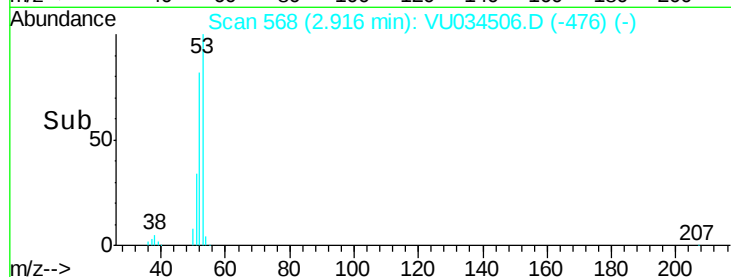
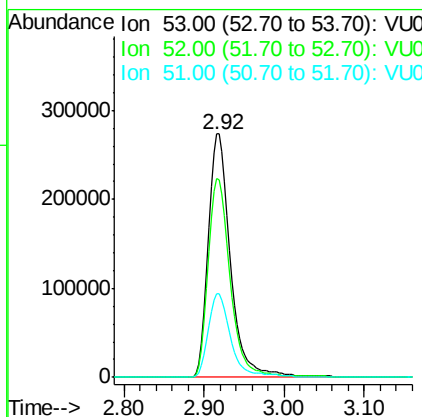
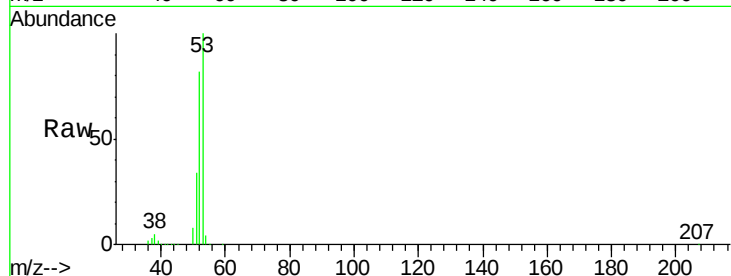
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	530325
Ion Ratio	Lower	Upper	
53	100		
52	81.6	64.1	96.1
51	35.0	27.4	41.0

Manual Integrations
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#16

Acetone

Concen: 273.106 ug/l

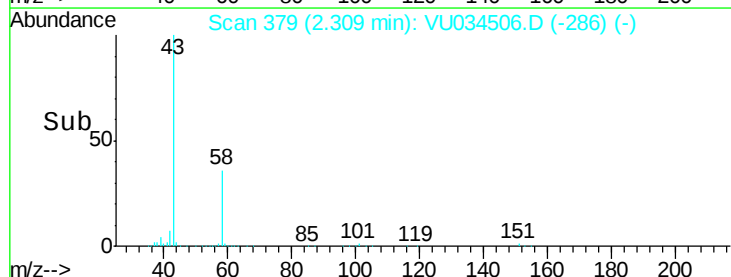
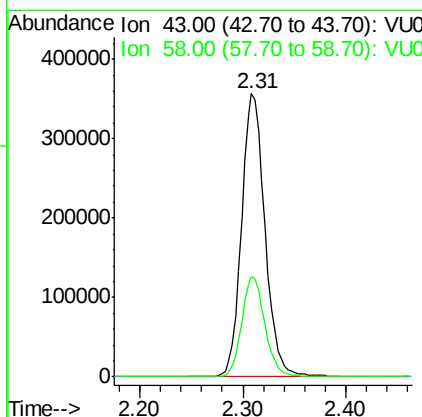
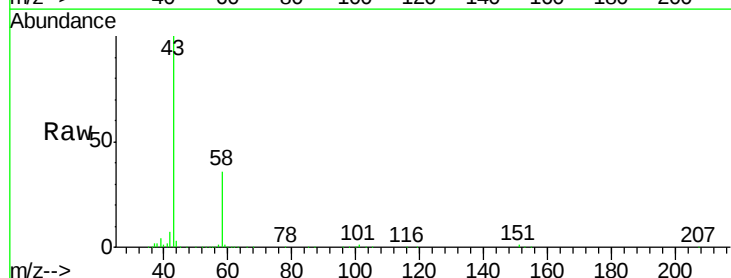
RT: 2.31 min Scan# 379

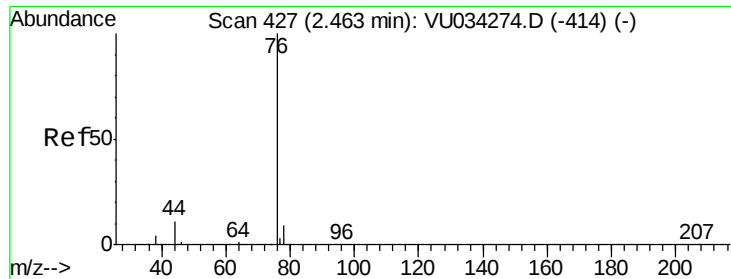
Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Tgt Ion:	43	Resp:	560545
Ion Ratio	Lower	Upper	
43	100		
58	35.6	27.6	41.4





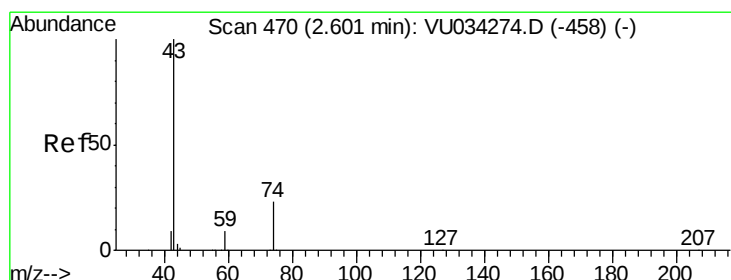
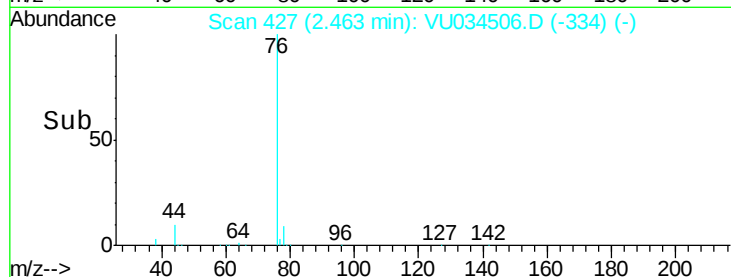
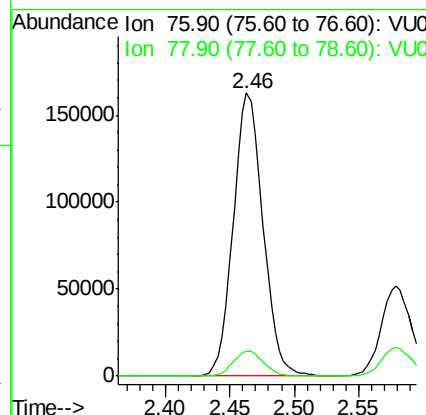
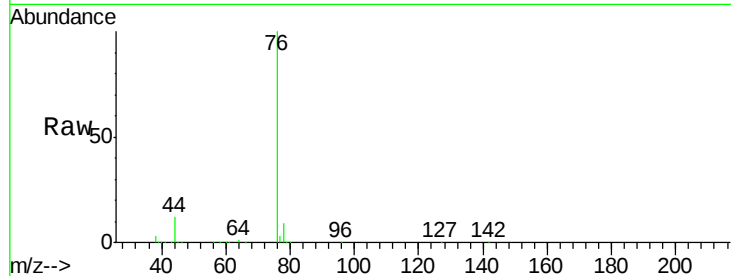
#17
Carbon Disulfide
Concen: 40.682 ug/l
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.2	10.8

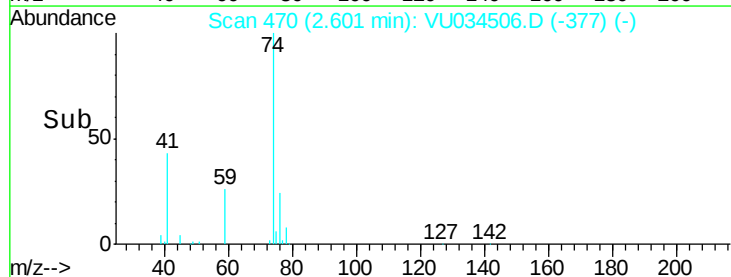
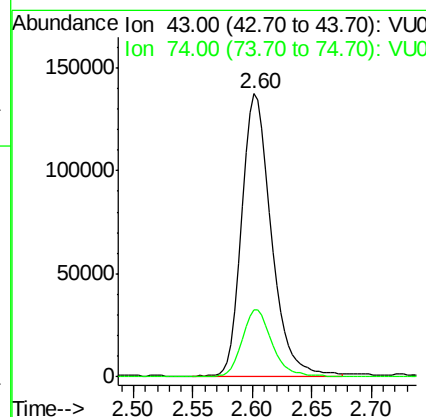
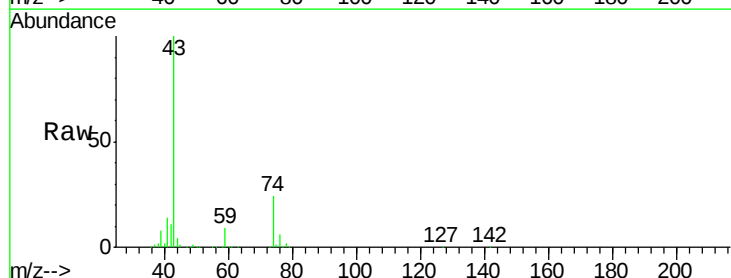
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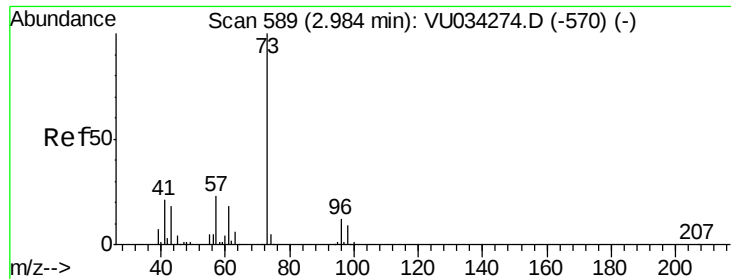
MMDadoda
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#18
Methyl Acetate
Concen: 47.232 ug/l
RT: 2.60 min Scan# 470
Delta R.T. 0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.4	18.9	28.3





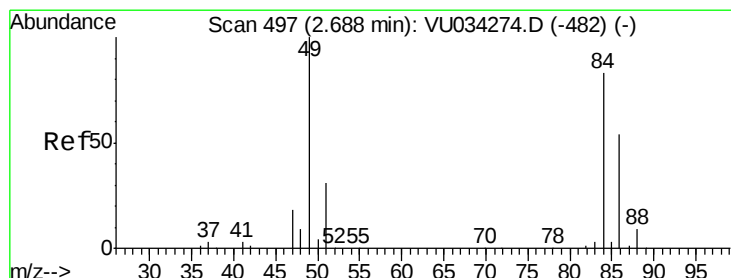
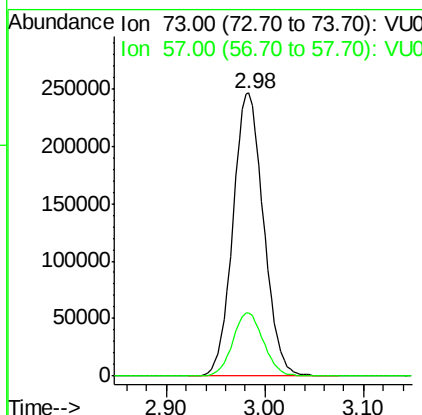
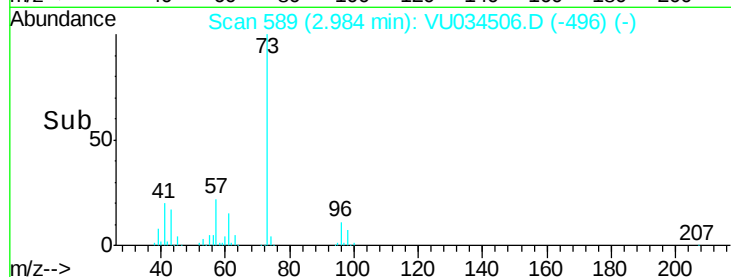
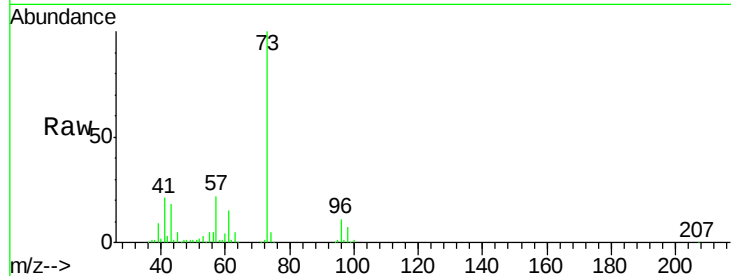
#19
Methvl tert-butvl Ether
Concen: 51.016 ug/l
RT: 2.98 min Scan# 589
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.2	18.2	27.4

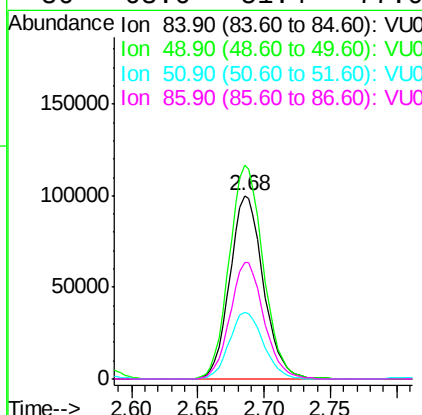
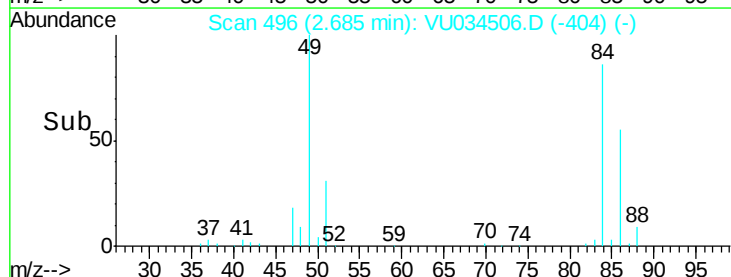
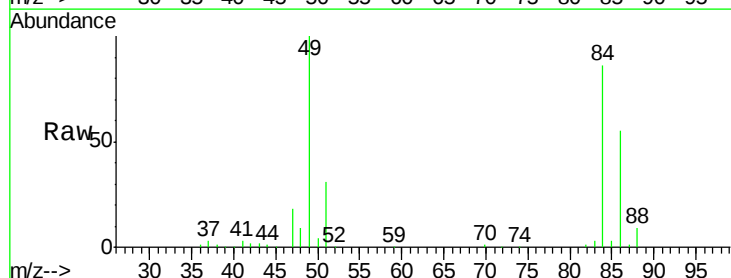
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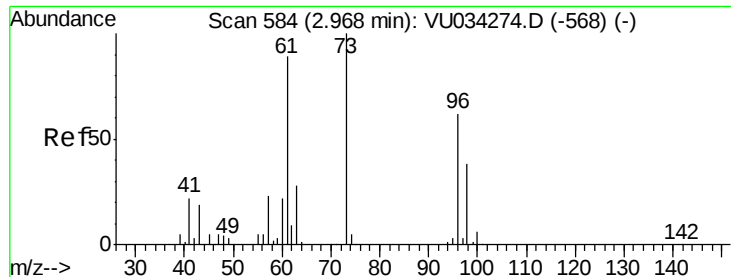
MMDadoda
9/16/2019 11:16:27 AM



#20
Methylene Chloride
Concen: 52.296 ug/l
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
84	100		
49	116.5	96.0	144.0
51	36.4	30.0	45.0
86	63.6	51.4	77.0





#21

trans-1,2-Dichloroethene

Concen: 47.207 ug/l

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 141880

Ion Ratio Lower Upper

96 100

61 142.2 114.8 172.2

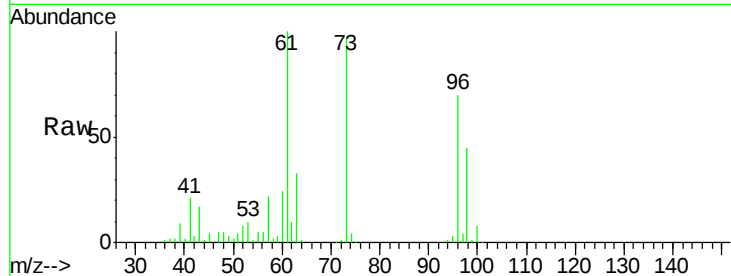
98 63.5 49.8 74.8

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Abundance Ion 95.90 (95.60 to 96.60): VU034274.D (-568) (-)

Ion 60.90 (60.60 to 61.60): VU034274.D (-568) (-)

Ion 97.90 (97.60 to 98.60): VU034274.D (-568) (-)

150000

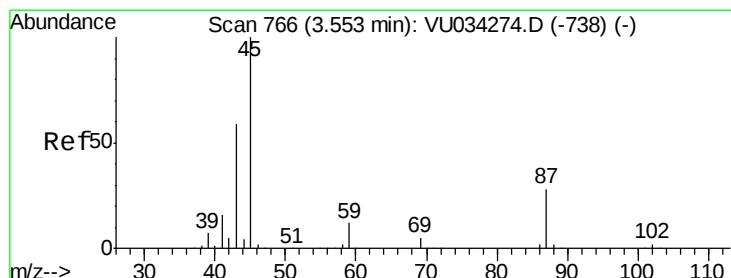
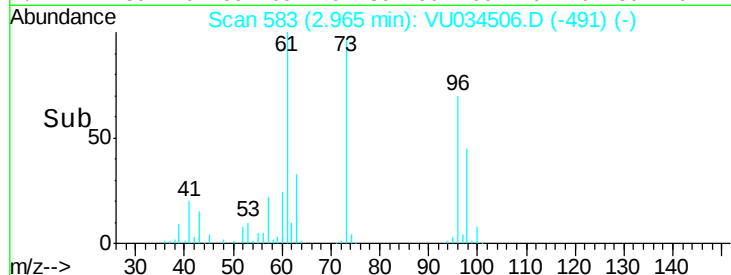
100000

50000

0

2.90 2.95 3.00 3.05

Time-->



#22

Diisopropyl ether

Concen: 51.667 ug/l

RT: 3.55 min Scan# 765

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Tgt Ion: 45 Resp: 549390

Ion Ratio Lower Upper

45 100

43 60.7 47.5 71.3

87 28.1 22.2 33.4

59 12.1 9.4 14.2

Abundance Ion 45.00 (44.70 to 45.70): VU034274.D (-738) (-)

Ion 43.00 (42.70 to 43.70): VU034274.D (-738) (-)

Ion 87.00 (86.70 to 87.70): VU034274.D (-738) (-)

Ion 59.00 (58.70 to 59.70): VU034274.D (-738) (-)

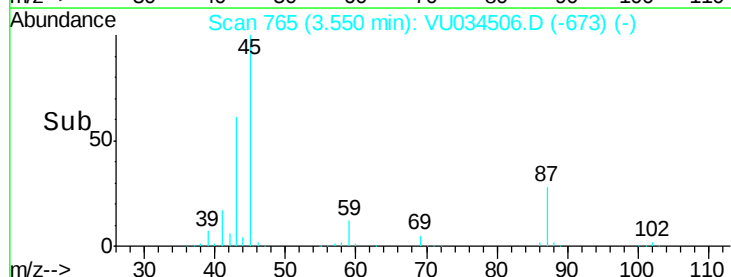
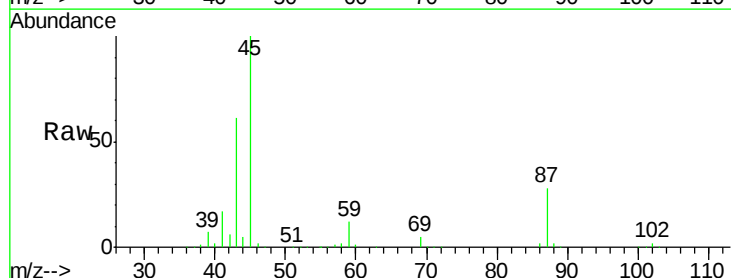
1000000

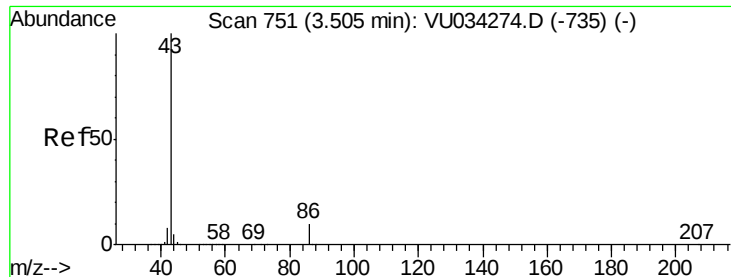
500000

0

3.40 3.50 3.60

Time-->





#23

Vinyl Acetate

Concen: 255.970 ug/l

RT: 3.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2217079

Ion Ratio Lower Upper

43 100

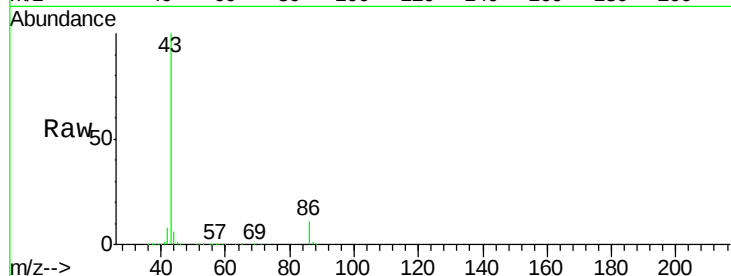
86 10.7 8.3 12.5

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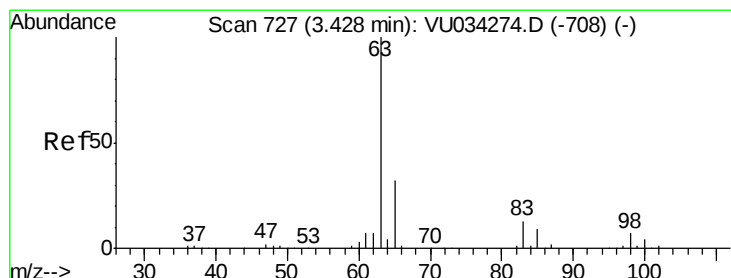
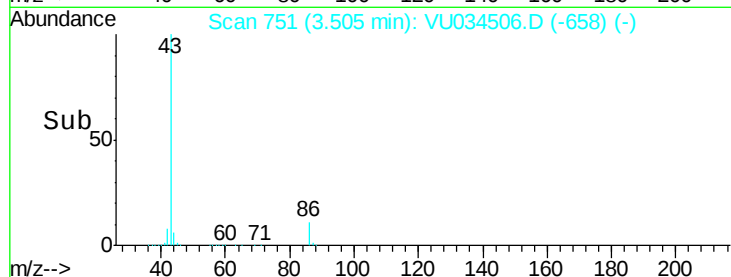


Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-735) (-)

Ion 86.00 (85.70 to 86.70): VU034274.D (-735) (-)

3.50

Time-->



#24

1,1-Dichloroethane

Concen: 48.094 ug/l

RT: 3.42 min Scan# 726

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

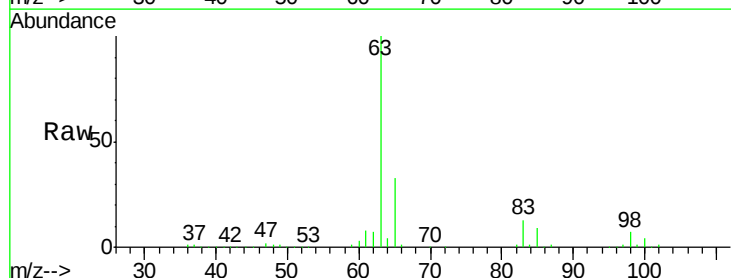
Tgt Ion: 63 Resp: 305403

Ion Ratio Lower Upper

63 100

98 6.9 3.5 10.4

100 4.3 2.1 6.5



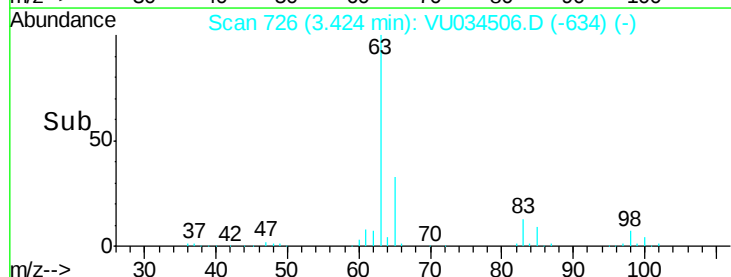
Abundance Ion 62.90 (62.60 to 63.60): VU034274.D (-708) (-)

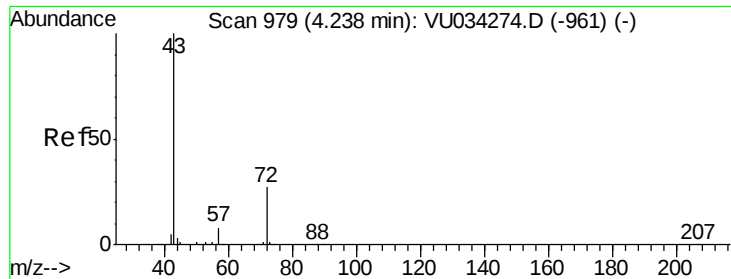
Ion 97.90 (97.60 to 98.60): VU034274.D (-708) (-)

Ion 99.90 (99.60 to 100.60): VU034274.D (-708) (-)

3.42

Time-->





#25

2-Butanone

Concen: 269.445 ug/l

RT: 4.23 min Scan# 978

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 738225

Ion Ratio Lower Upper

43 100

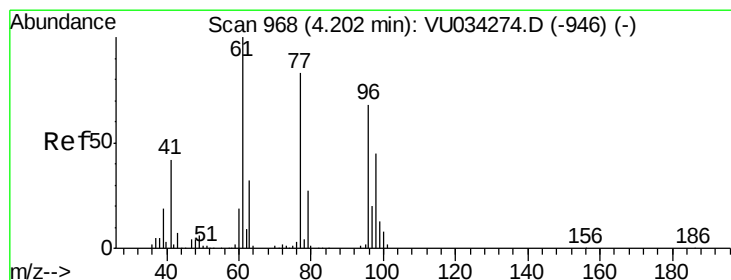
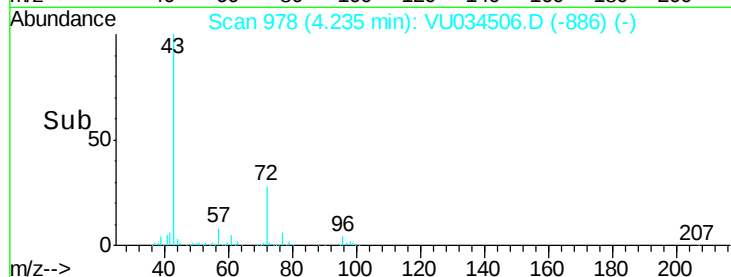
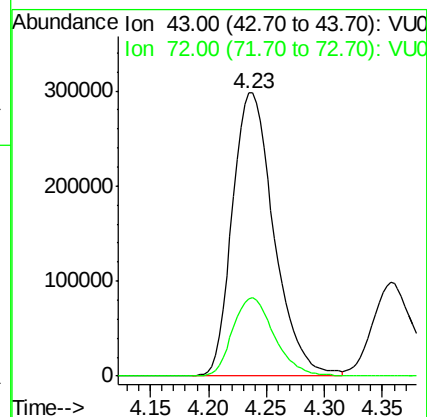
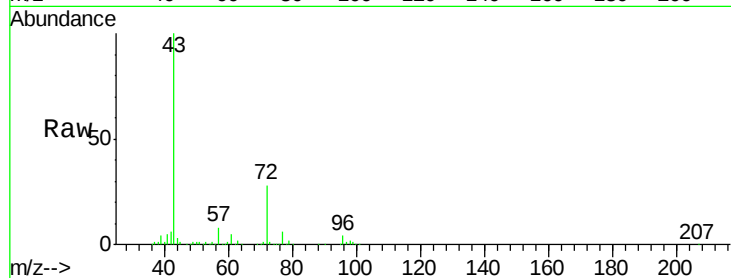
72 27.4 21.8 32.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 50.139 ug/l

RT: 4.20 min Scan# 968

Delta R.T. -0.00 min

Lab File: VU034506.D

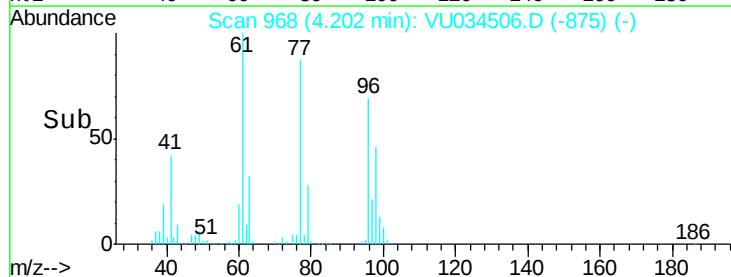
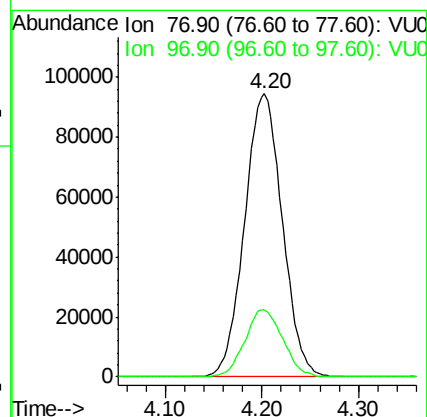
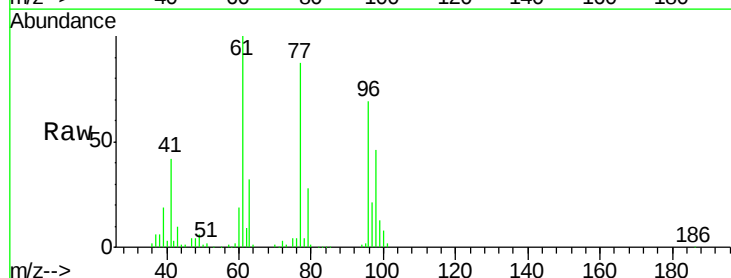
Acq: 12 Sep 2019 09:27

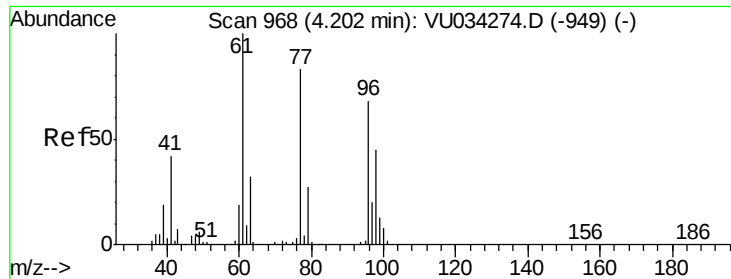
Tgt Ion: 77 Resp: 256074

Ion Ratio Lower Upper

77 100

97 23.7 11.8 35.3





#27

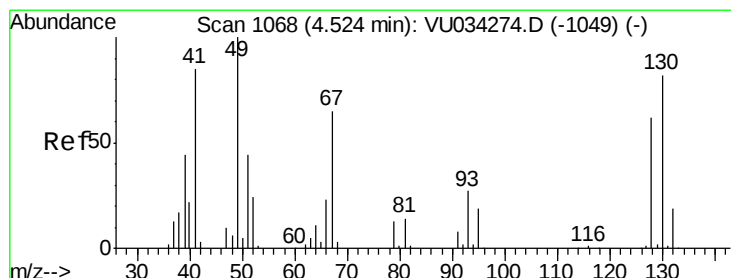
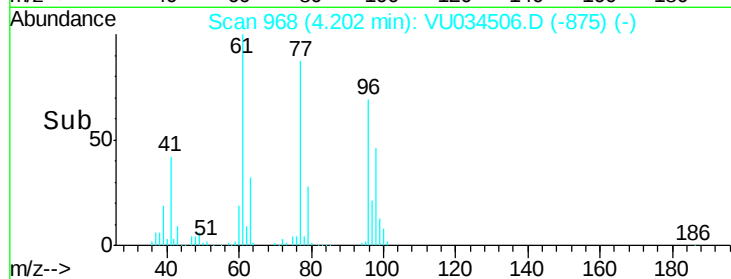
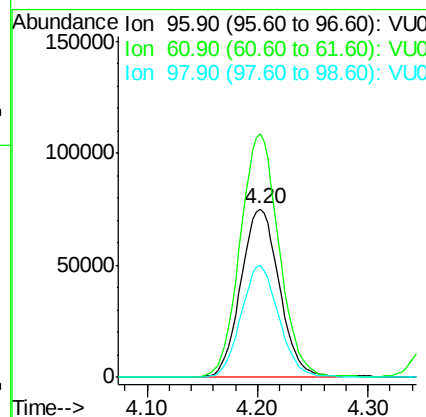
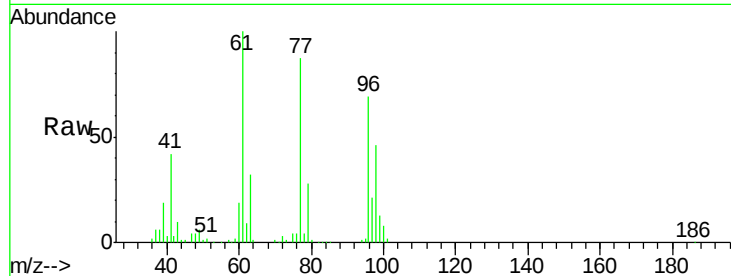
cis-1,2-Dichloroethene
Concen: 49.748 ug/l
RT: 4.20 min Scan# 968
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	181593		
61	146.4	0.0	297.4	
98	65.3	0.0	130.0	

Manual Integrations
APPROVED

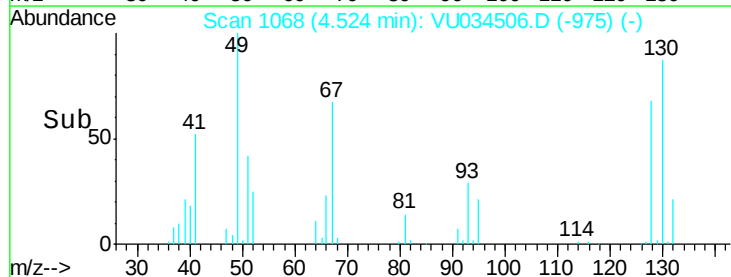
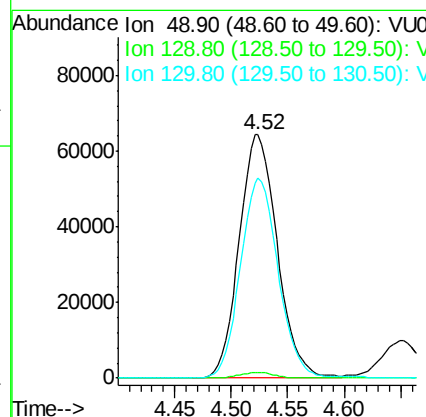
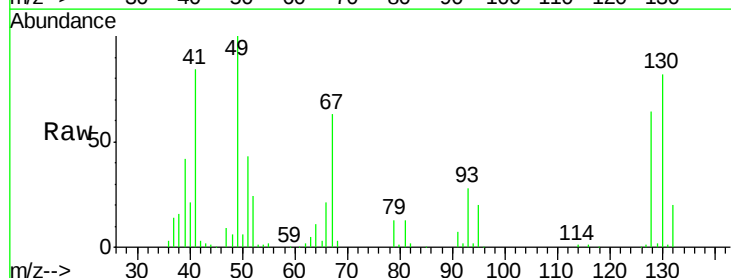
MMDadoda
9/16/2019 11:16:27 AM

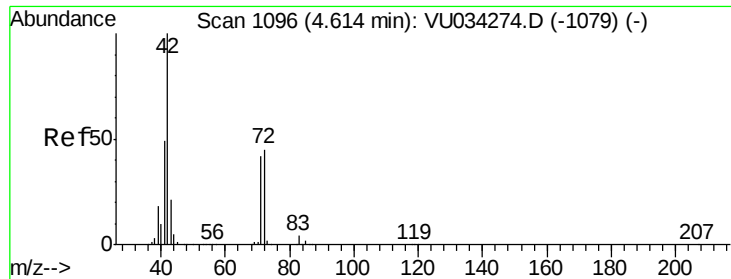


#28

Bromochloromethane
Concen: 51.740 ug/l
RT: 4.52 min Scan# 1068
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	151123		
129	2.0	0.0	3.8	
130	81.1	65.2	97.8	





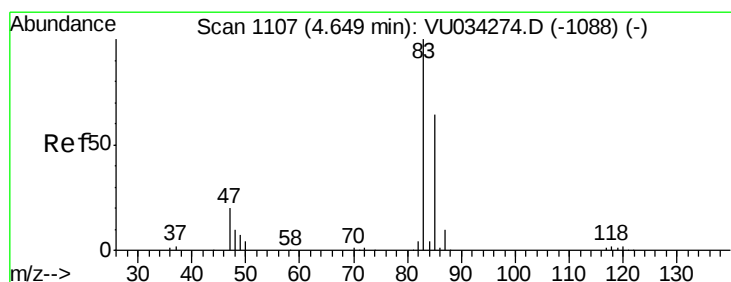
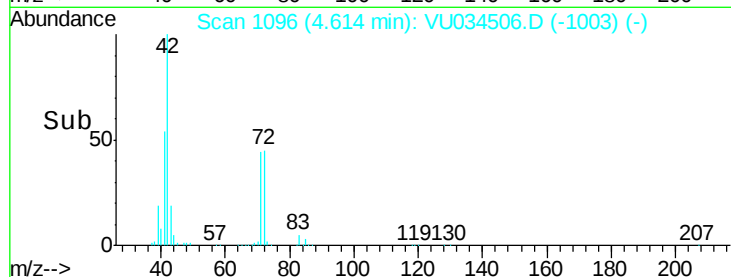
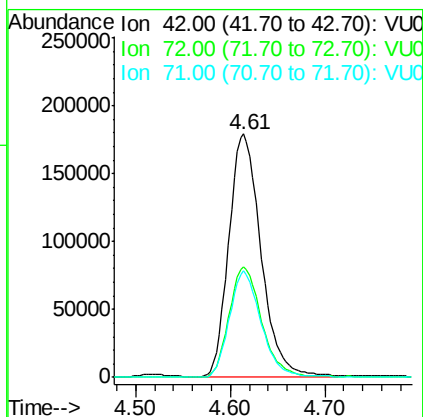
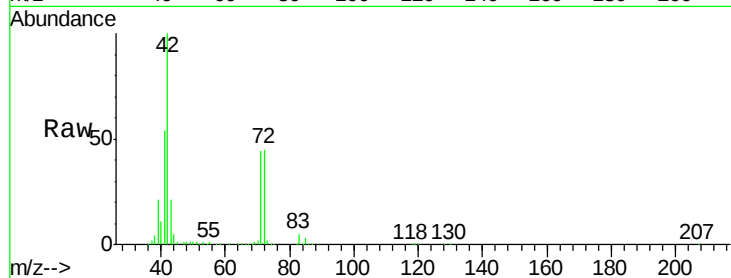
#29
Tetrahydrofuran
Concen: 253.422 ug/l
RT: 4.61 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
42	100	422501		
72	46.1		36.6	54.8
71	43.4		34.3	51.5

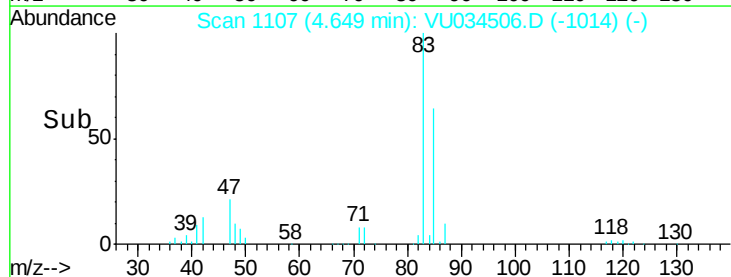
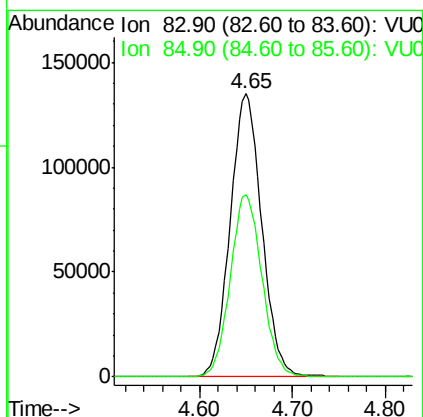
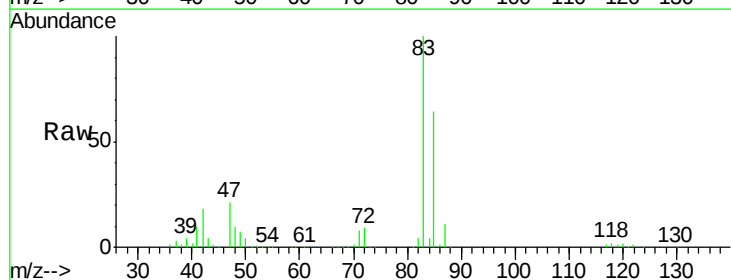
Manual Integrations
APPROVED

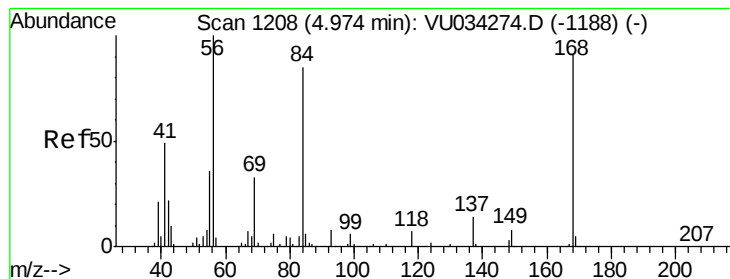
MMDadoda
9/16/2019 11:16:27 AM



#30
Chloroform
Concen: 49.375 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	318698		
85	64.5		51.5	77.3





#31

Cyclohexane

Concen: 44.487 ug/l

RT: 4.97 min Scan# 1207

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 206673

Ion Ratio Lower Upper

56 100

69 33.8 26.7 40.1

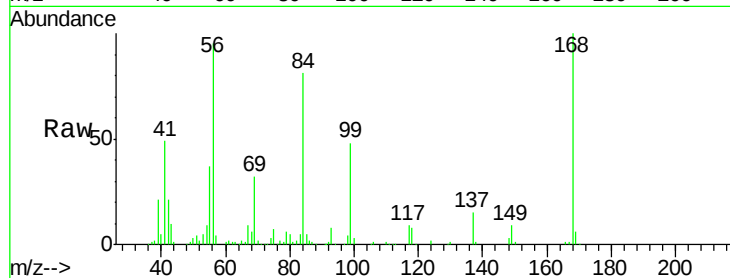
84 83.9 68.2 102.4

Manual Integrations

APPROVED

MMDadoda

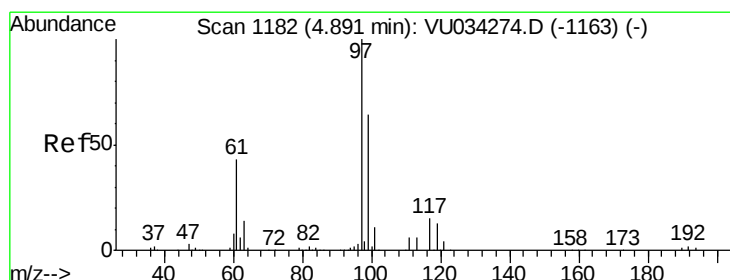
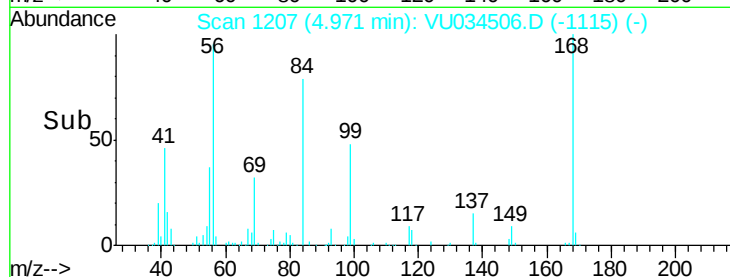
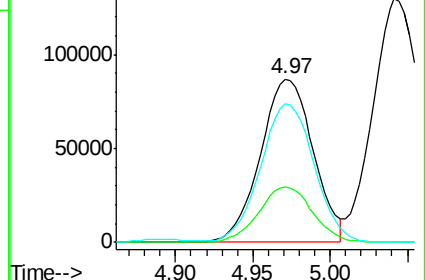
9/16/2019 11:16:27 AM



Abundance Ion 56.00 (55.70 to 56.70): VU034506.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034506.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034506.D (-1188) (-)



#32

1,1,1-Trichloroethane

Concen: 49.822 ug/l

RT: 4.89 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

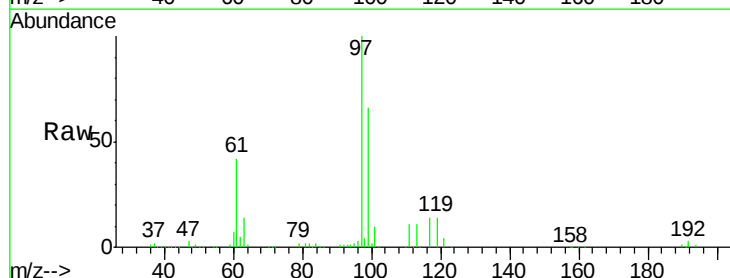
Tgt Ion: 97 Resp: 257114

Ion Ratio Lower Upper

97 100

99 64.3 50.9 76.3

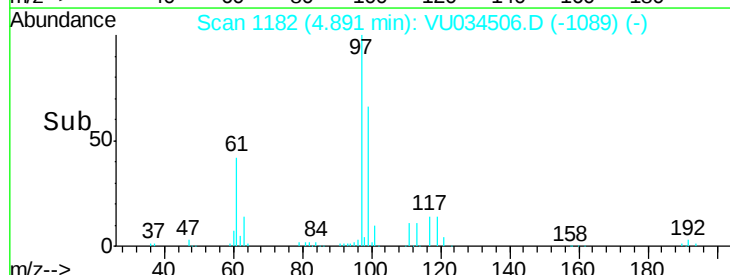
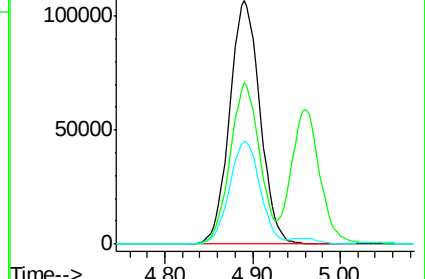
61 42.6 34.7 52.1

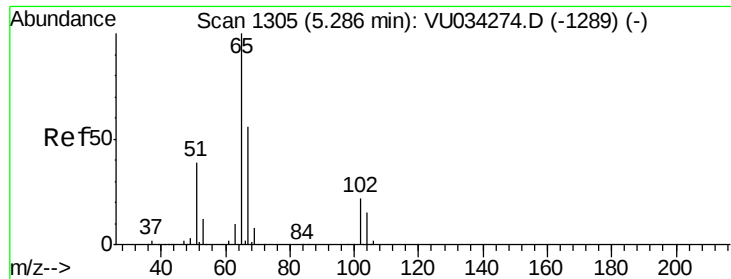


Abundance Ion 96.90 (96.60 to 97.60): VU034506.D (-1089) (-)

Ion 98.90 (98.60 to 99.60): VU034506.D (-1089) (-)

Ion 60.90 (60.60 to 61.60): VU034506.D (-1089) (-)





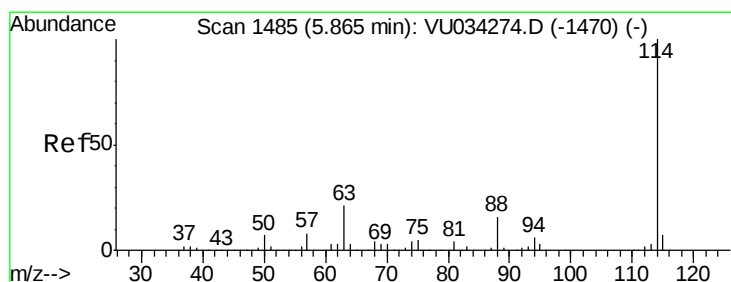
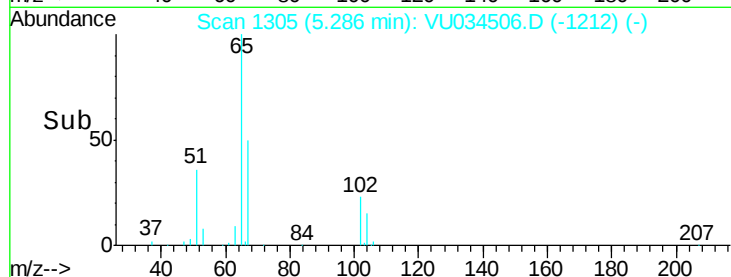
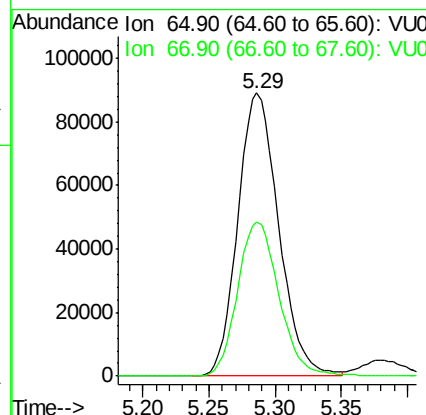
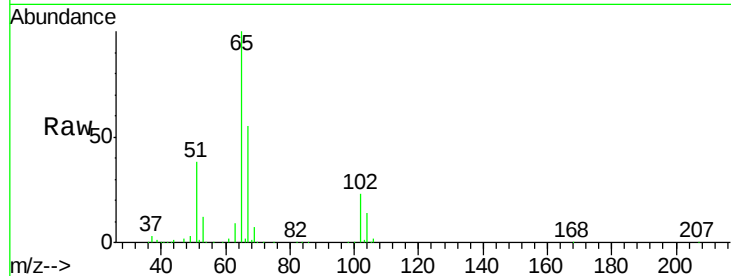
#33
 1,2-Dichloroethane-d4
 Concen: 48.152 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.3	0.0	112.4

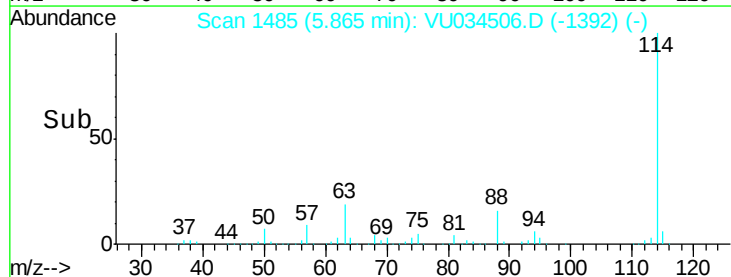
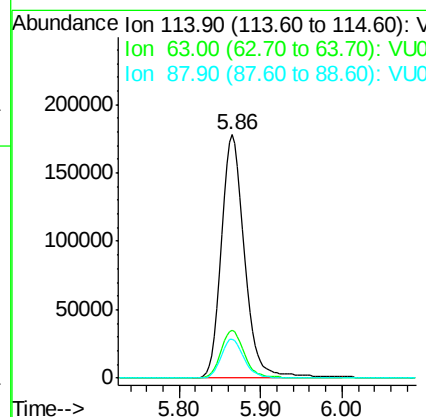
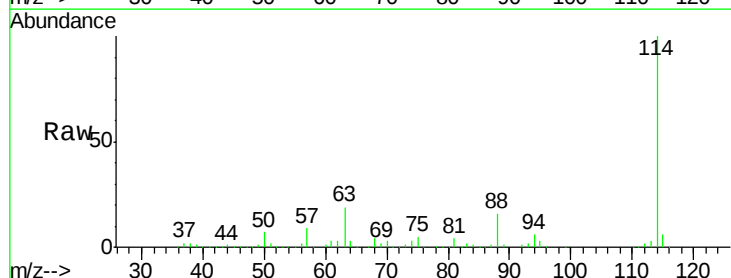
Manual Integrations
 APPROVED

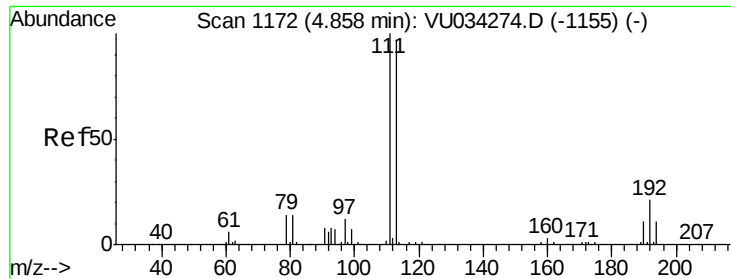
MMDadoda
 9/16/2019 11:16:27 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	42.4
88	16.1	0.0	32.4





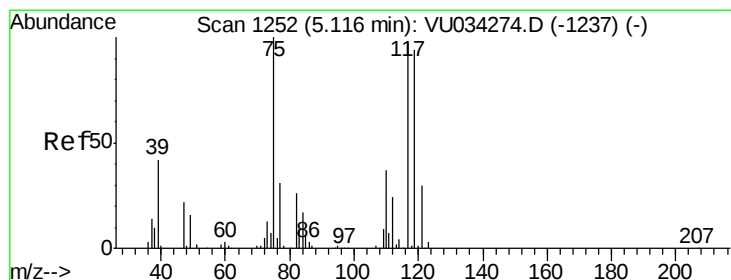
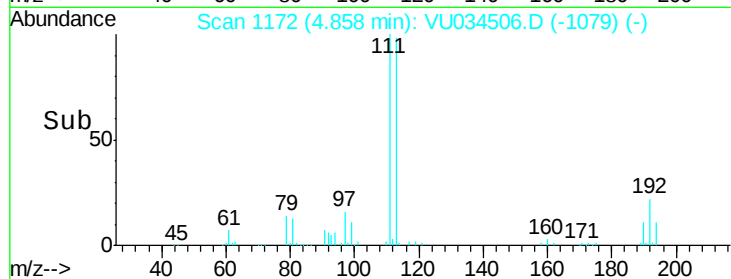
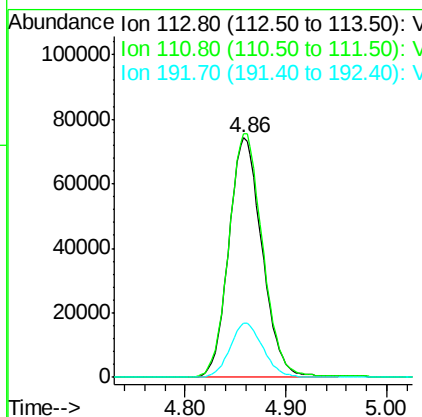
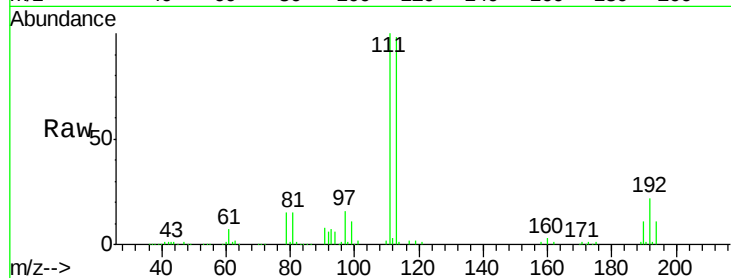
#35
 Dibromofluoromethane
 Concen: 50.862 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	170814		
111	102.7	81.5	122.3	
192	22.4	17.8	26.8	

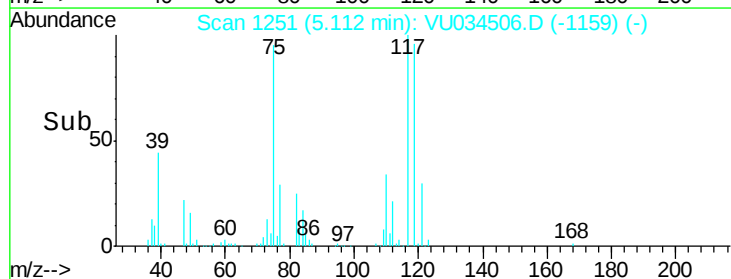
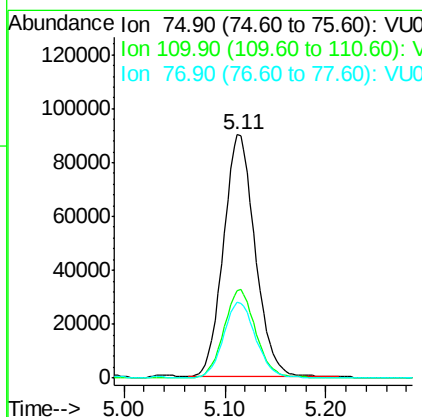
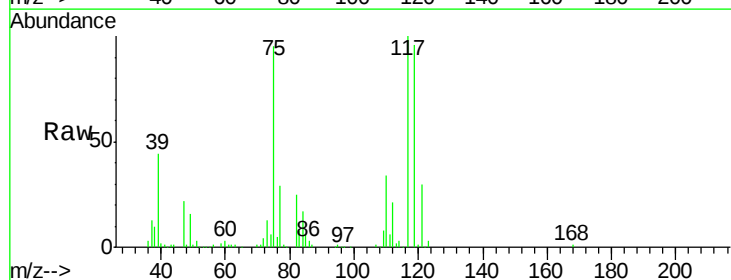
Manual Integrations
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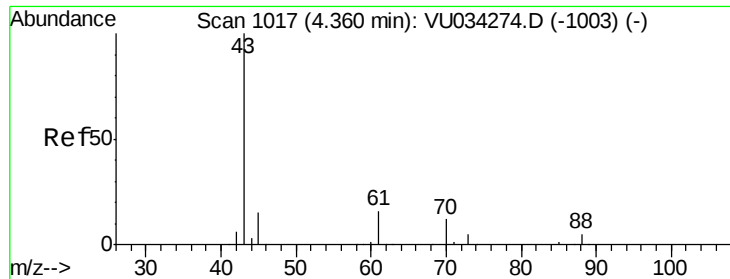
MMDadoda
 9/16/2019 11:16:27 AM



#36
 1,1-Dichloropropene
 Concen: 50.428 ug/l
 RT: 5.11 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	197386		
110	36.9	18.3	54.9	
77	31.2	24.9	37.3	





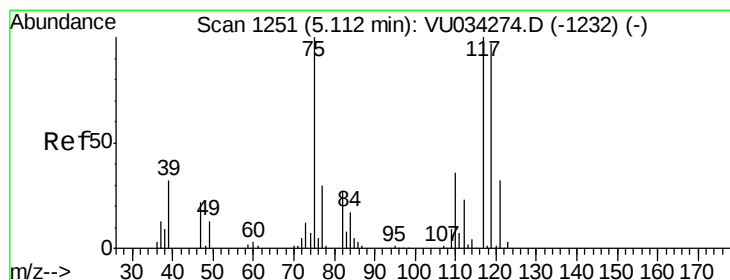
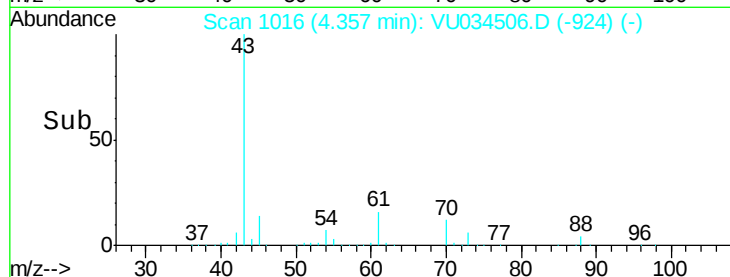
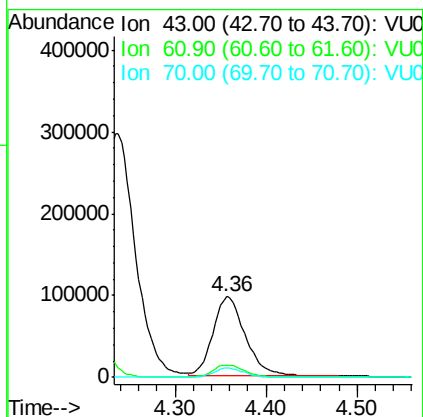
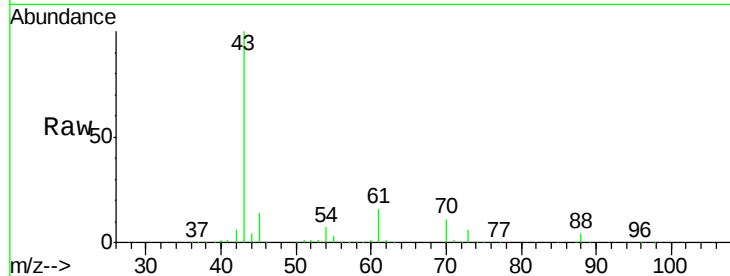
#37
Ethyl Acetate
Concen: 52.157 ug/l
RT: 4.36 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	12.3	18.5
70	11.3	9.1	13.7

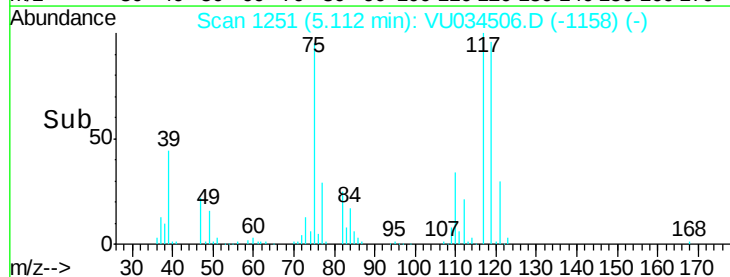
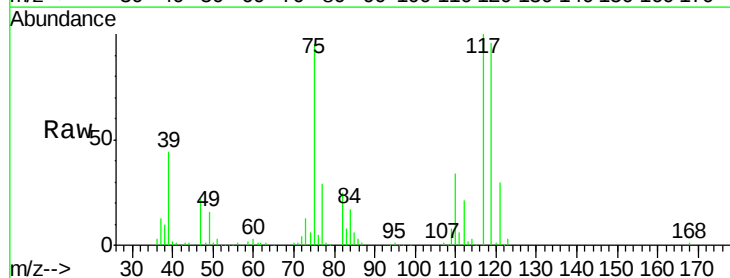
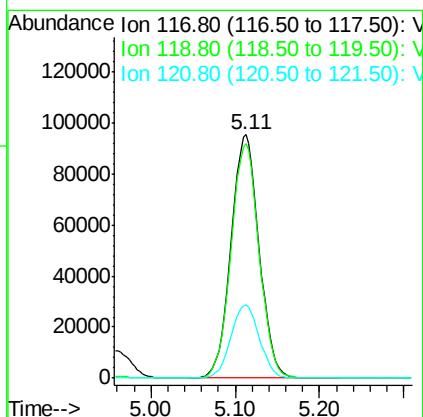
Manual Integrations
APPROVED

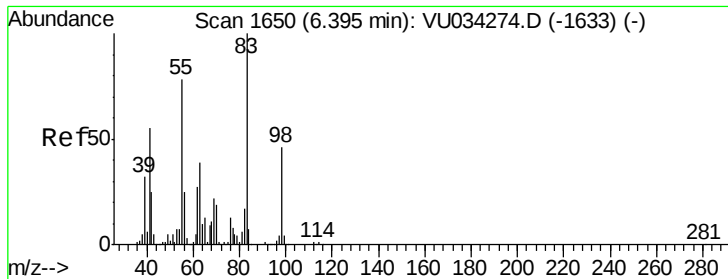
MMDadoda
9/16/2019 11:16:27 AM



#38
Carbon Tetrachloride
Concen: 52.859 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.4	77.8	116.6
121	30.0	25.2	37.8





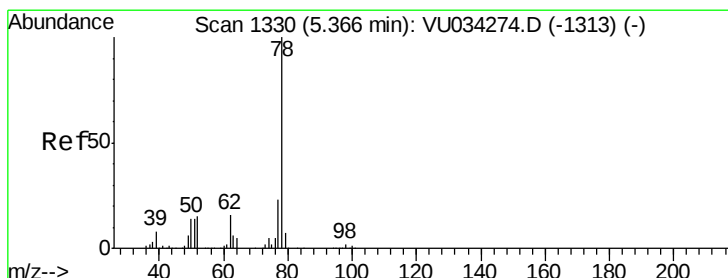
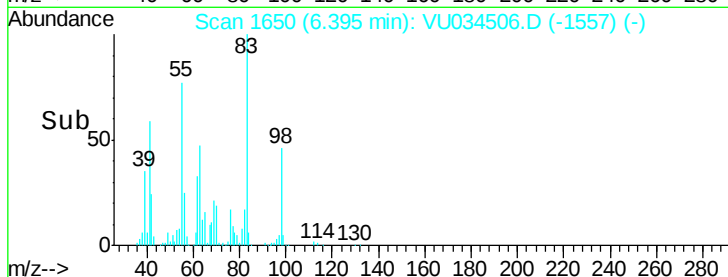
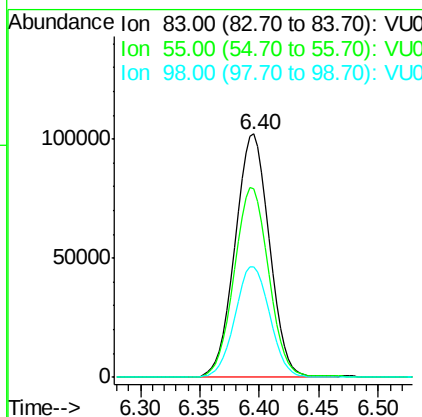
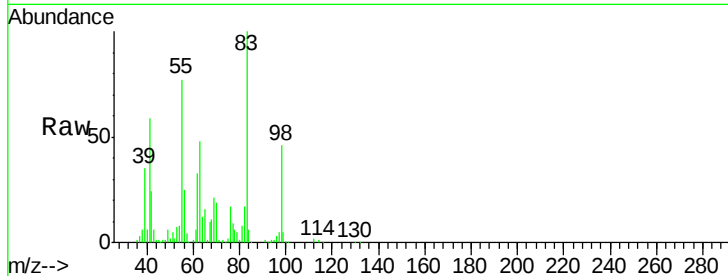
#39
Methvlcvclohexane
Concen: 48.972 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.3	62.1	93.1
98	45.5	37.0	55.6

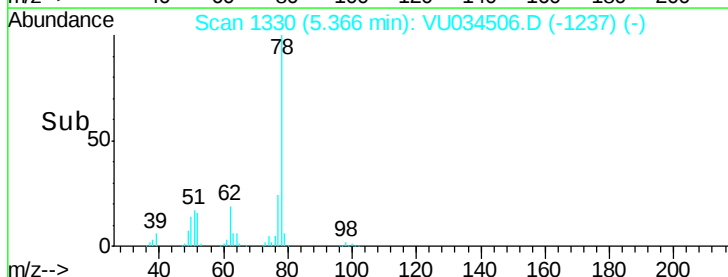
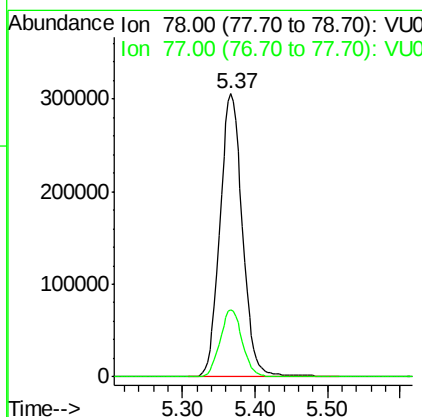
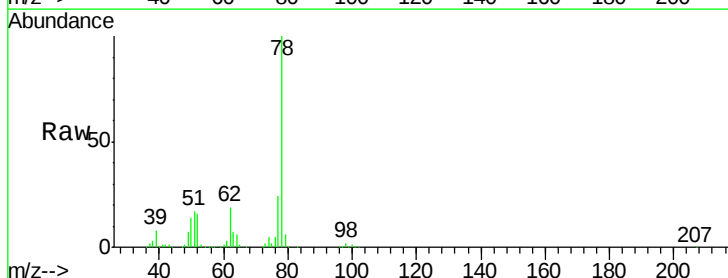
Manual Integrations
APPROVED

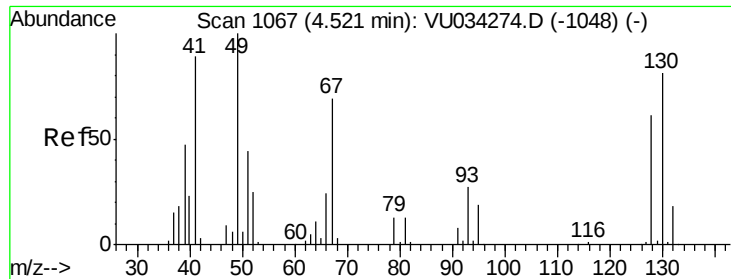
MMDadoda
9/16/2019 11:16:27 AM



#40
Benzene
Concen: 52.150 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.7	28.1





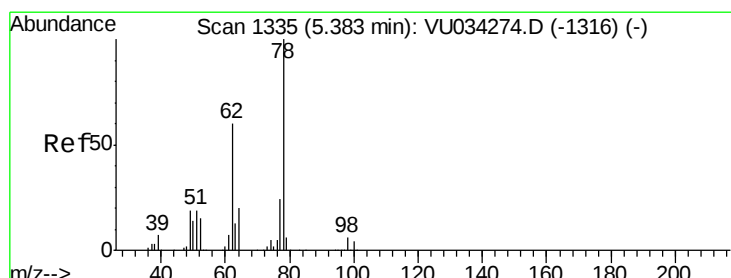
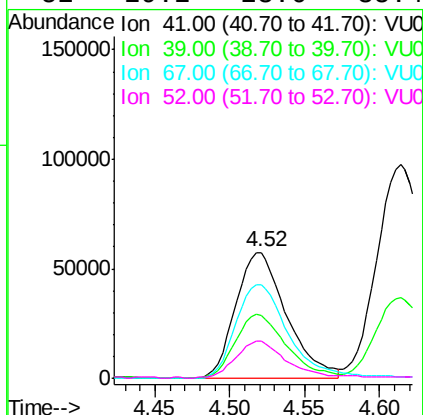
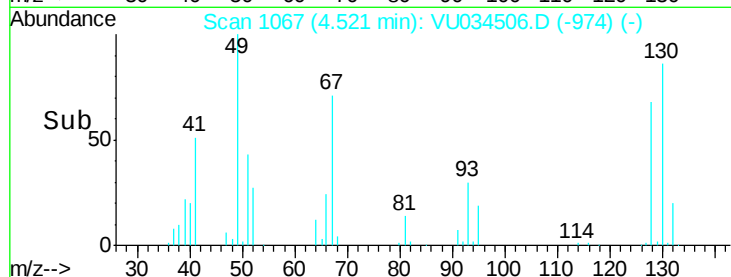
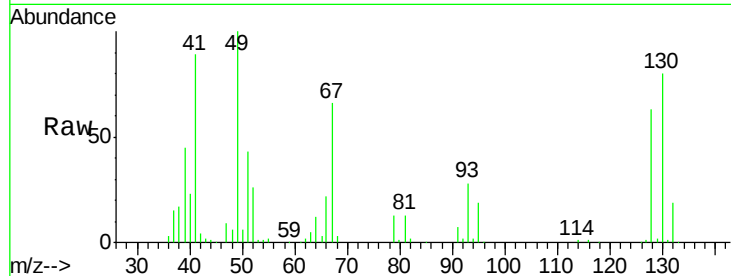
#41
Methacrylonitrile
Concen: 54.690 ug/l
RT: 4.52 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	51.7	41.0	61.4		
67	79.2	62.4	93.6		
52	29.2	23.6	35.4		

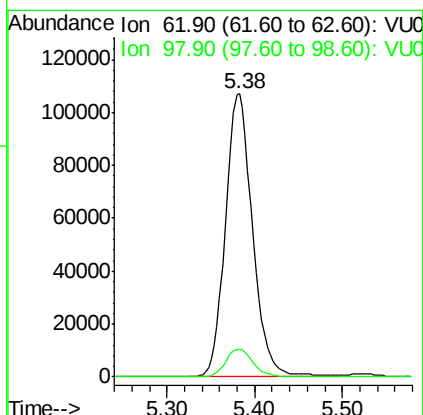
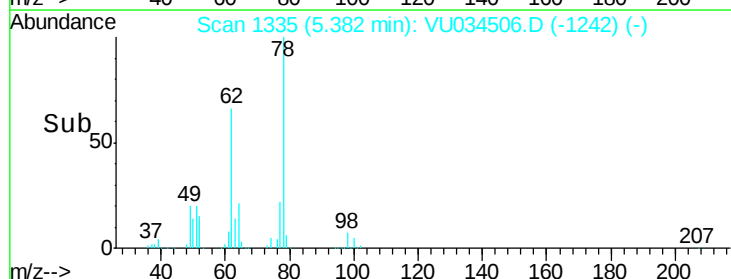
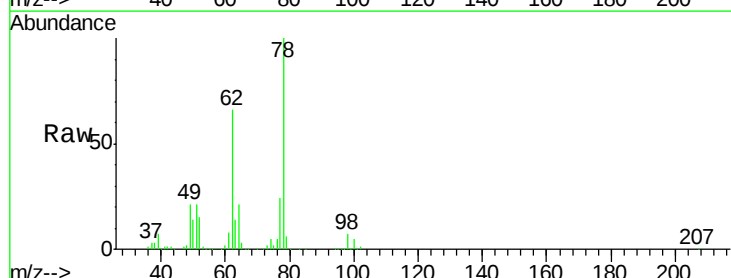
Manual Integrations
APPROVED

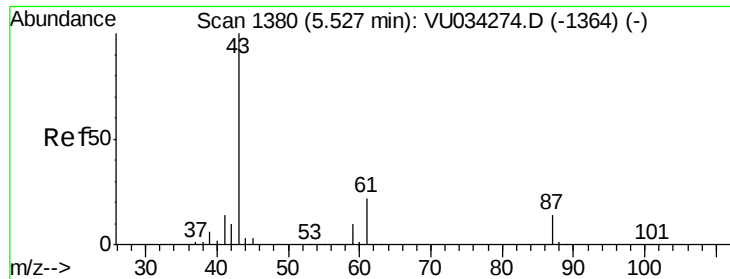
MMDadoda
9/16/2019 11:16:27 AM



#42
1,2-Dichloroethane
Concen: 52.593 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

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





#43

Isopropyl Acetate

Concen: 52.303 ug/l

RT: 5.53 min Scan# 1380

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

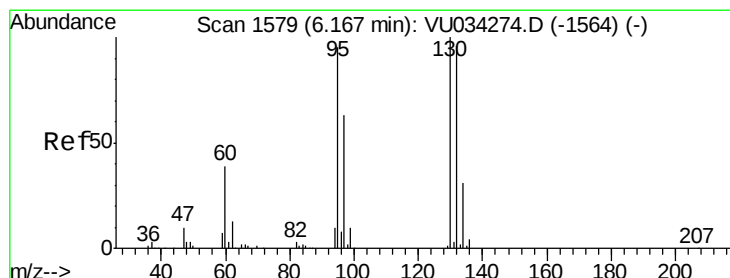
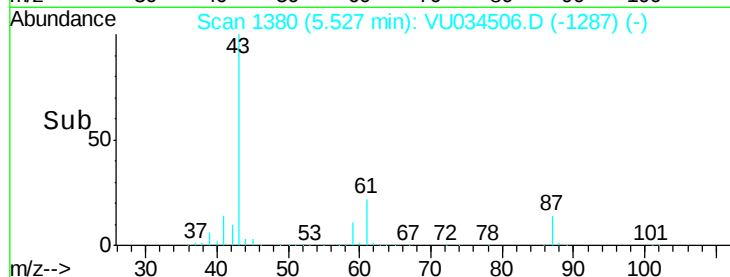
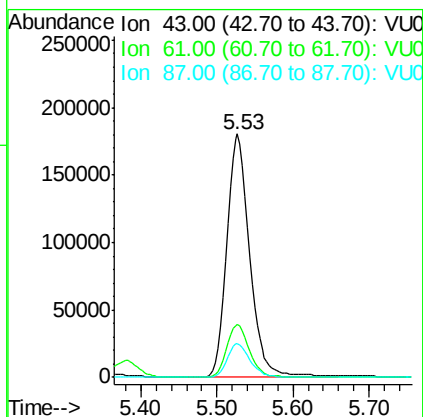
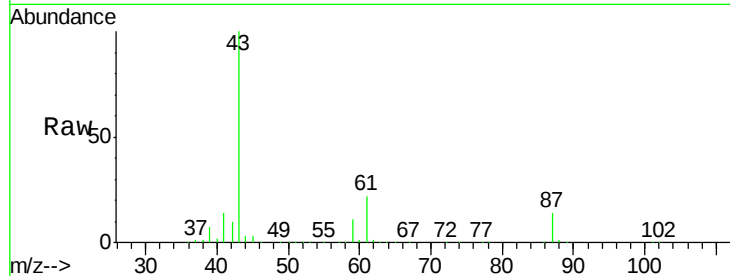
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	377599
Ion	Ratio	Lower	Upper
43	100		
61	21.7	17.1	25.7
87	13.8	11.1	16.7

Manual Integrations
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#44

Trichloroethene

Concen: 50.962 ug/l

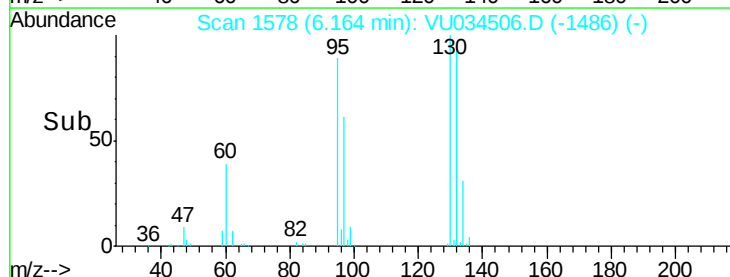
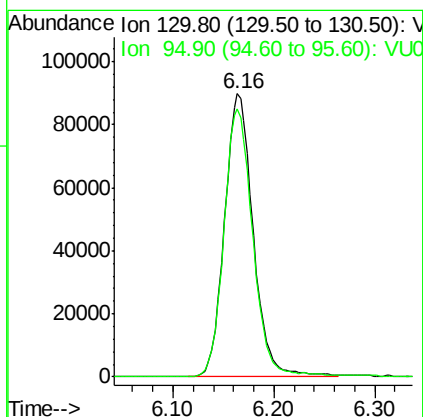
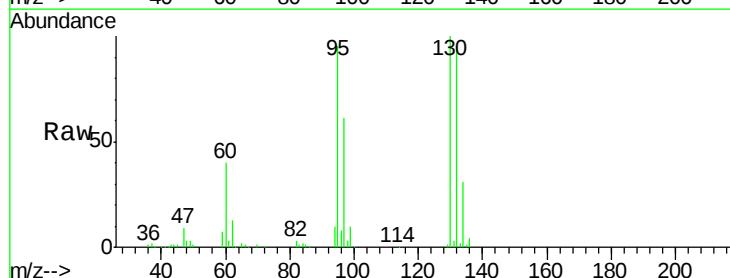
RT: 6.16 min Scan# 1578

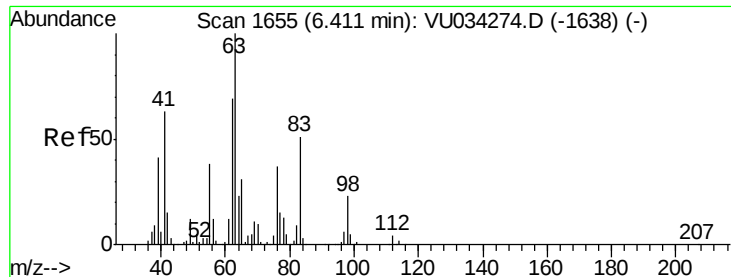
Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Tgt Ion:	130	Resp:	178116
Ion	Ratio	Lower	Upper
130	100		
95	94.7	0.0	189.2





#45

1,2-Dichloropropane

Concen: 51.955 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampled :

VSTDCCC050

Tot Ion: 63 Resp: 191837

Ion Ratio Lower Upper

63 100

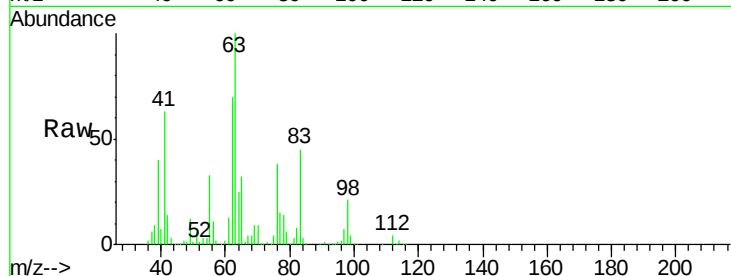
65 32.2 24.6 37.0

Manual Integrations

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Abundance Ion 62.90 (62.60 to 63.60): VU034274.D (-1638) (-)

Ion 64.90 (64.60 to 65.60): VU034274.D (-1638) (-)

6.41

100000

80000

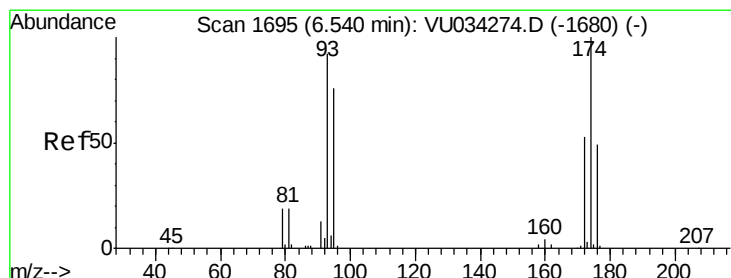
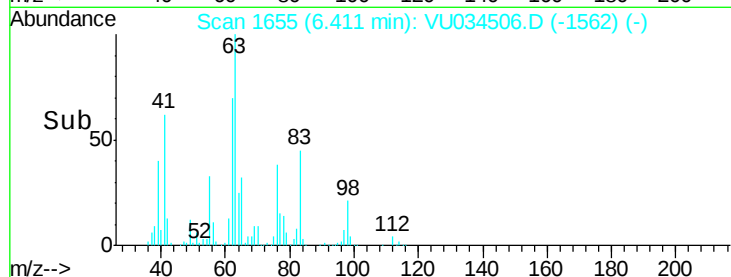
60000

40000

20000

0

Time-->



#46

Dibromomethane

Concen: 53.824 ug/l

RT: 6.54 min Scan# 1694

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

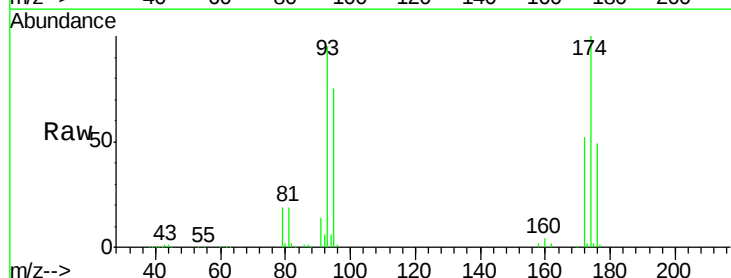
Tgt Ion: 93 Resp: 124749

Ion Ratio Lower Upper

93 100

95 81.8 66.5 99.7

174 109.0 87.8 131.6



Abundance Ion 92.80 (92.50 to 93.50): VU034274.D (-1680) (-)

Ion 94.80 (94.50 to 95.50): VU034274.D (-1680) (-)

Ion 173.70 (173.40 to 174.40): VU034274.D (-1680) (-)

6.54

80000

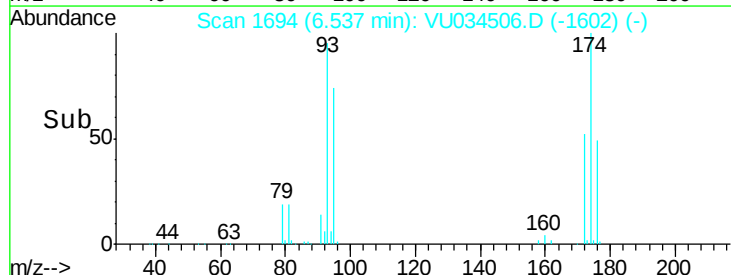
60000

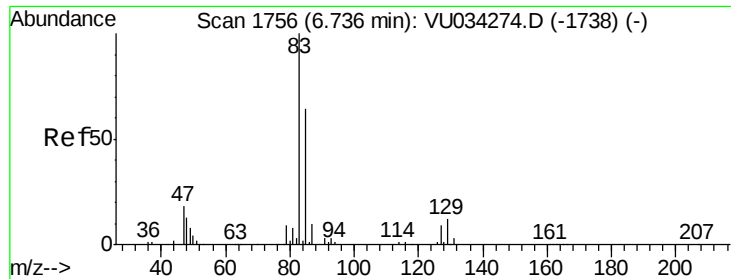
40000

20000

0

Time-->





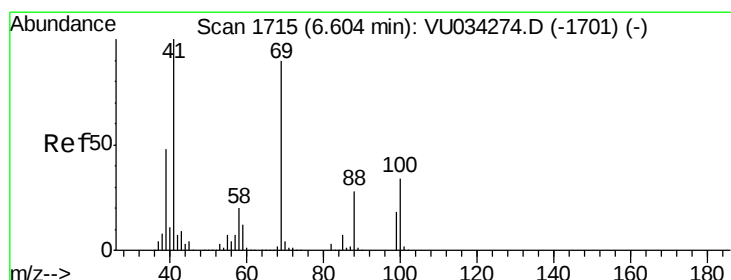
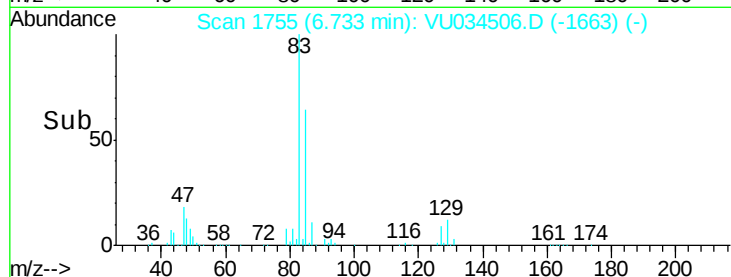
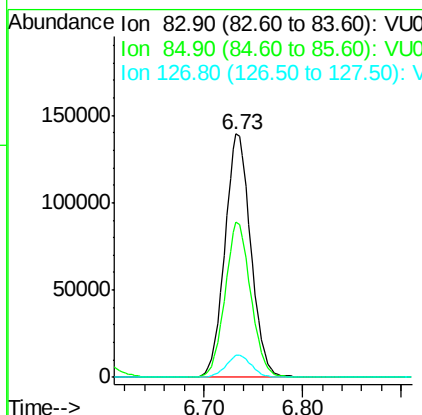
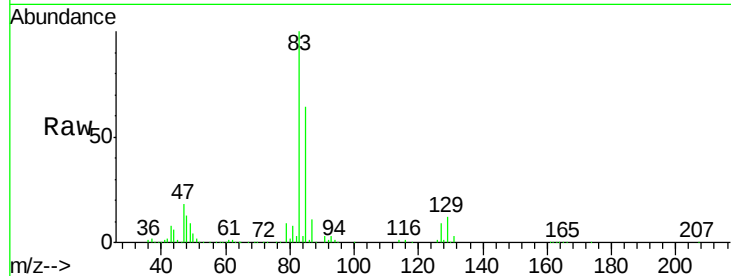
#47
Bromodichloromethane
Concen: 53.882 ug/l
RT: 6.73 min Scan# 1755
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	257061		
85	63.6		51.1	76.7
127	9.0		7.2	10.8

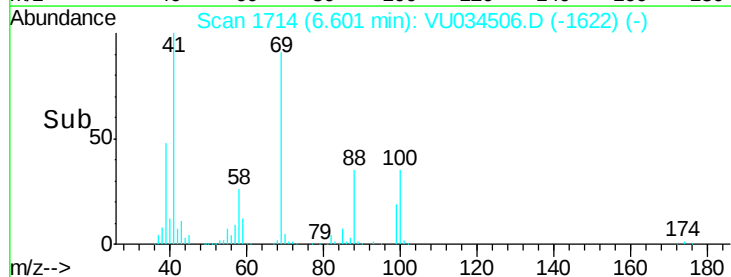
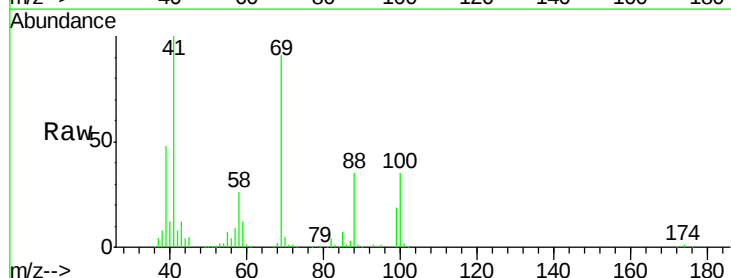
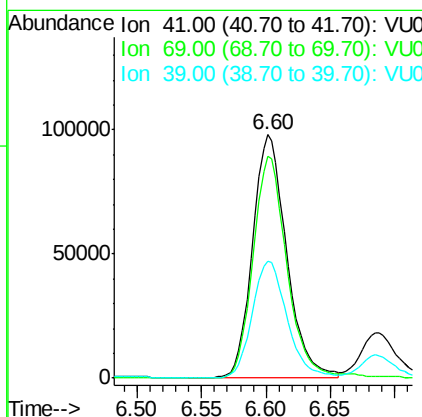
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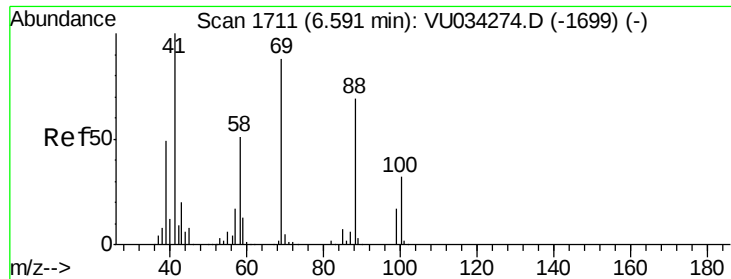
MMDadoda
9/16/2019 11:16:27 AM



#48
Methyl methacrylate
Concen: 52.502 ug/l
RT: 6.60 min Scan# 1714
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	180026		
69	91.7		72.8	109.2
39	49.1		38.6	58.0





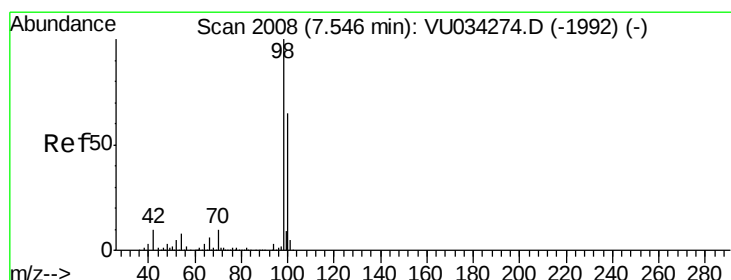
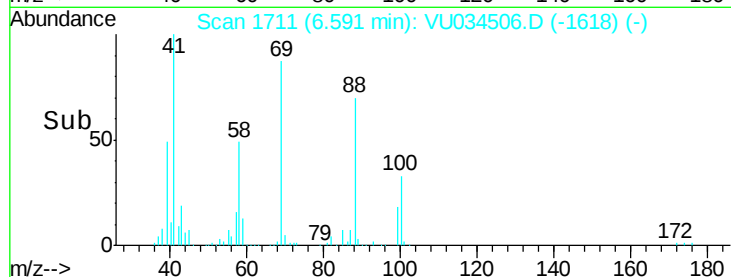
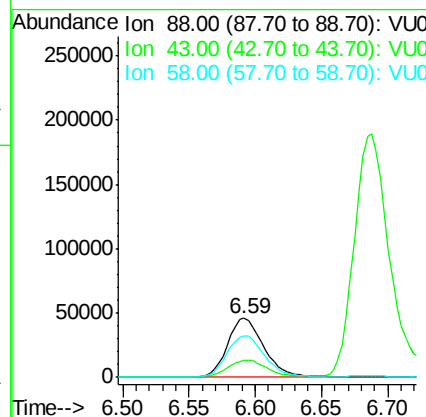
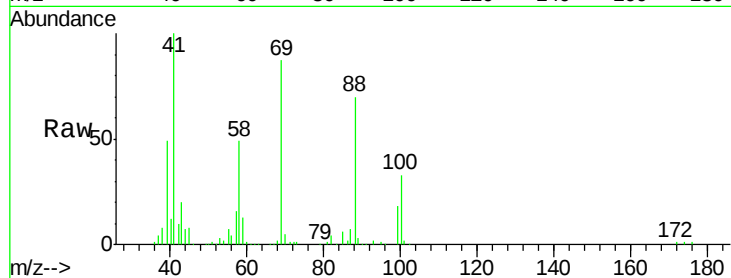
#49
1,4-Dioxane
Concen: 1155.702 ug/l
RT: 6.59 min Scan# 1711
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.0	23.8	35.6
58	74.9	58.4	87.6

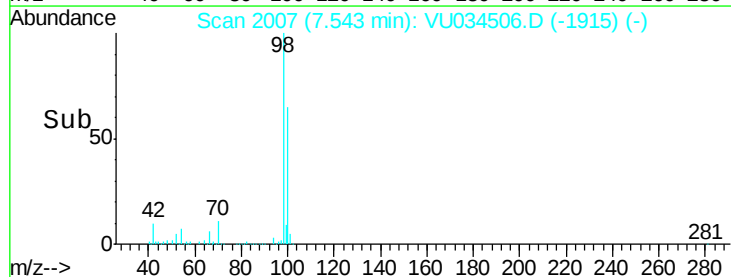
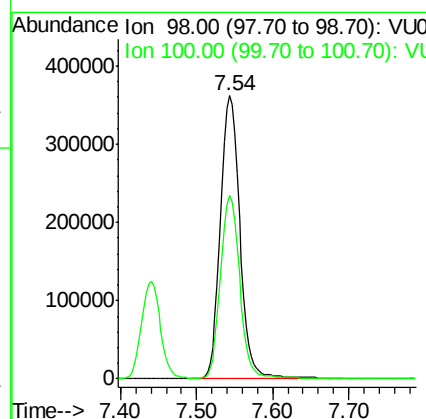
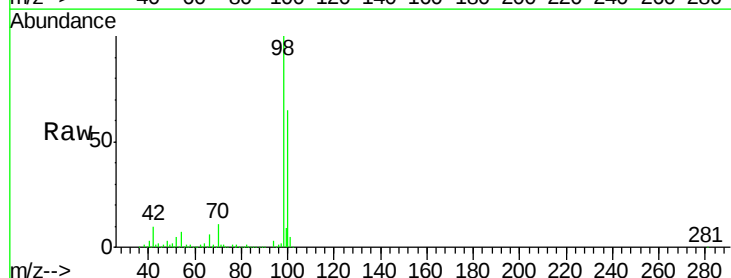
Manual Integrations
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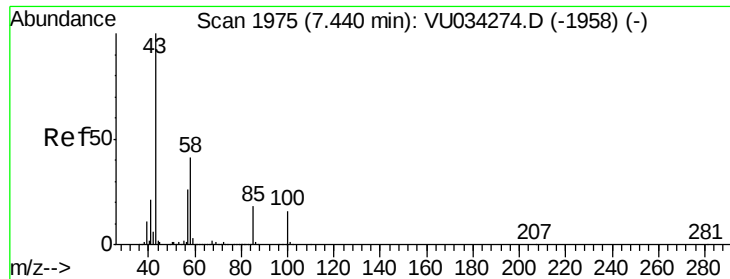
MMDadoda
9/16/2019 11:16:27 AM



#50
Toluene-d8
Concen: 51.190 ug/l
RT: 7.54 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.7	77.5





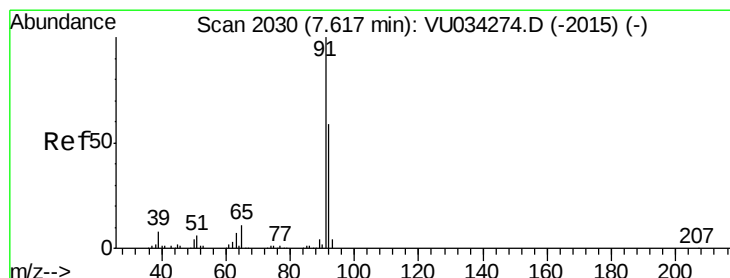
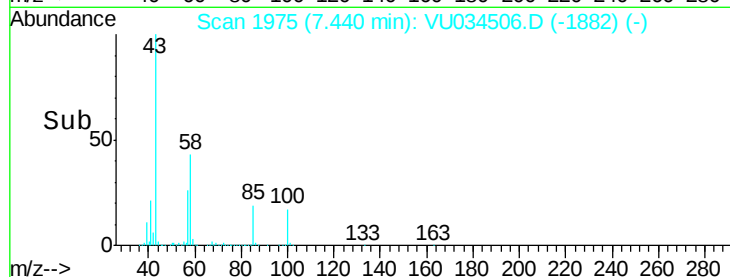
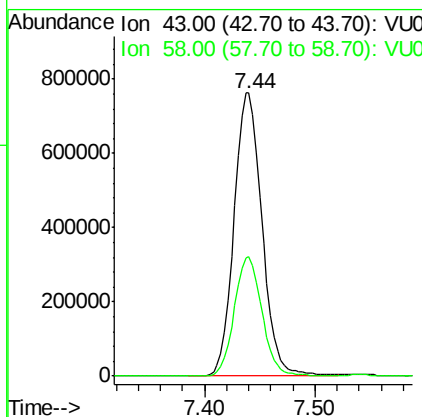
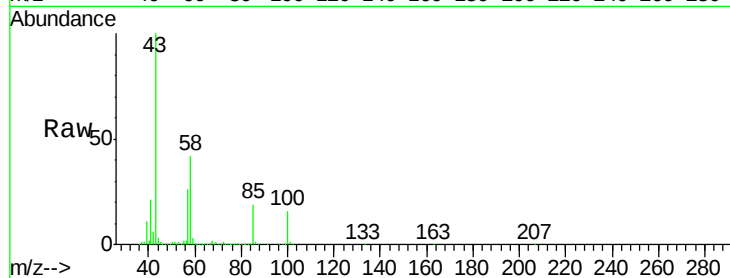
#51
 4-Methyl-2-Pentanone
 Concen: 268.080 ug/l
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 1339673
 Ion Ratio Lower Upper
 43 100
 58 41.8 33.0 49.4

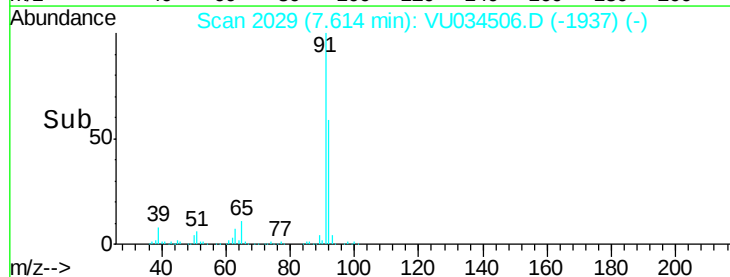
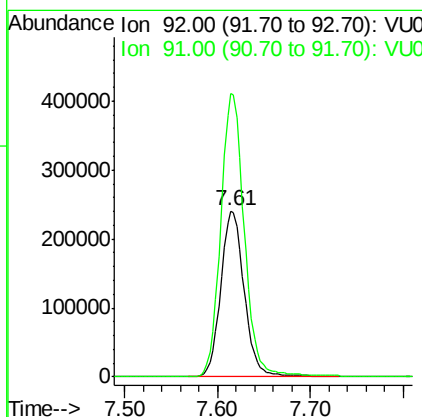
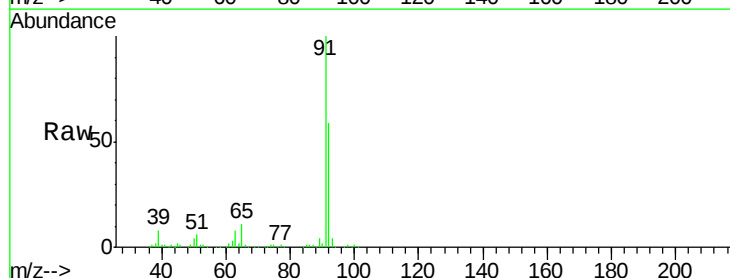
Manual Integrations
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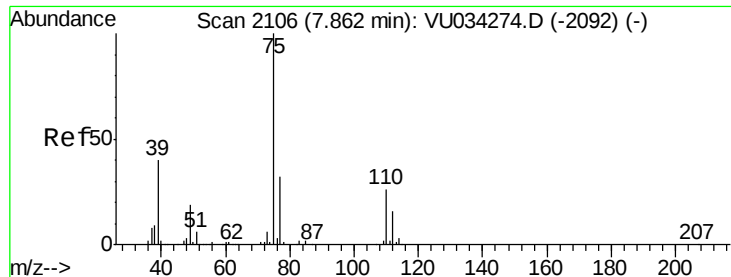
MMDadoda
 9/16/2019 11:16:27 AM



#52
 Toluene
 Concen: 53.487 ug/l
 RT: 7.61 min Scan# 2029
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Tgt Ion: 92 Resp: 423782
 Ion Ratio Lower Upper
 92 100
 91 172.1 136.6 205.0





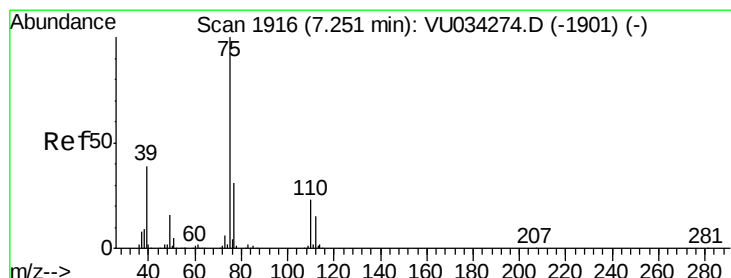
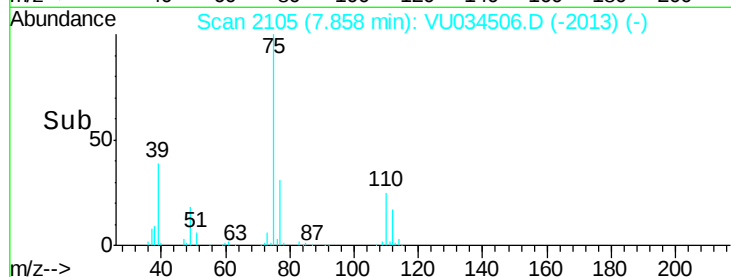
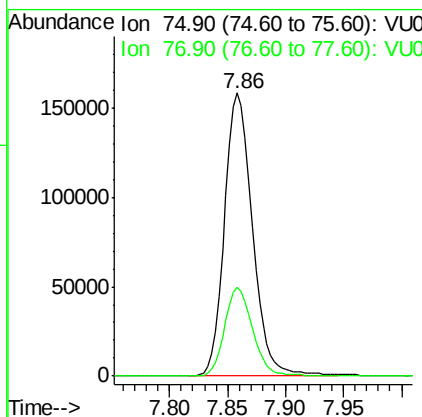
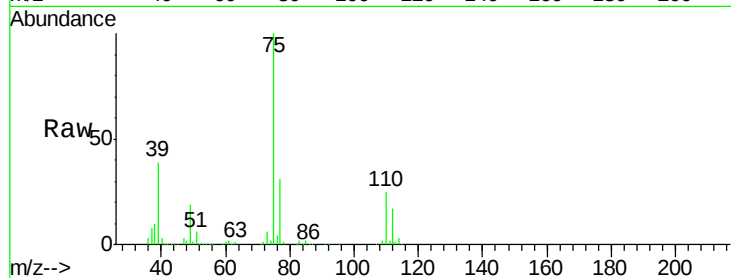
#53
 t-1,3-Dichloropropene
 Concen: 53.803 ug/l
 RT: 7.86 min Scan# 2105
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.7	38.5

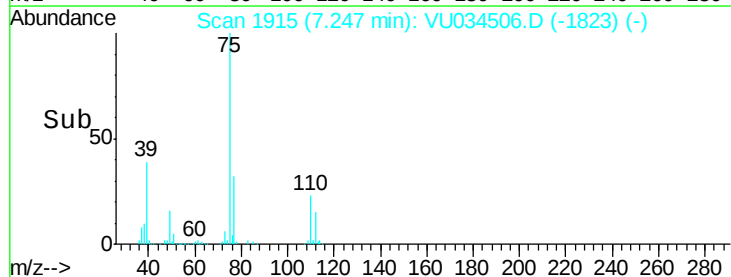
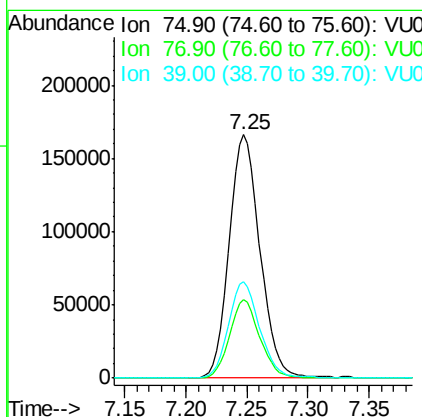
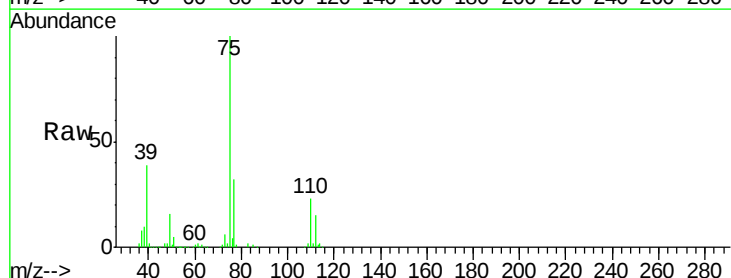
Manual Integrations
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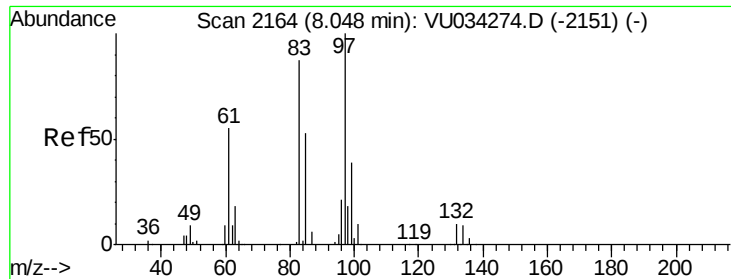
MMDadoda
 9/16/2019 11:16:27 AM



#54
 cis-1,3-Dichloropropene
 Concen: 54.087 ug/l
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.1	37.7
39	39.4	31.2	46.8





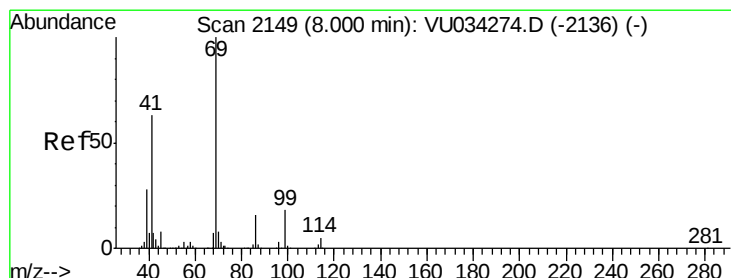
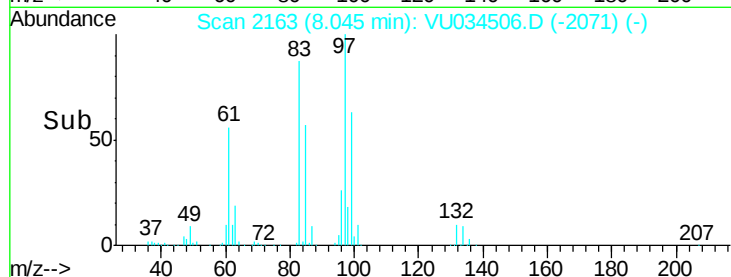
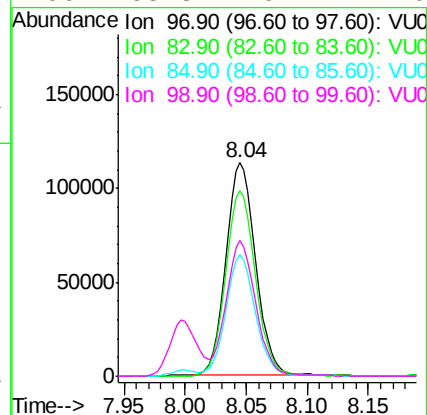
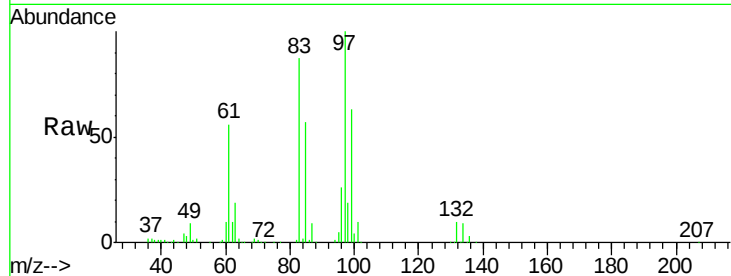
#55
 1,1,2-Trichloroethane
 Concen: 54.007 ug/l
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		194298		
83	86.9	69.0	103.6		
85	56.9	44.2	66.2		
99	63.3	49.4	74.0		

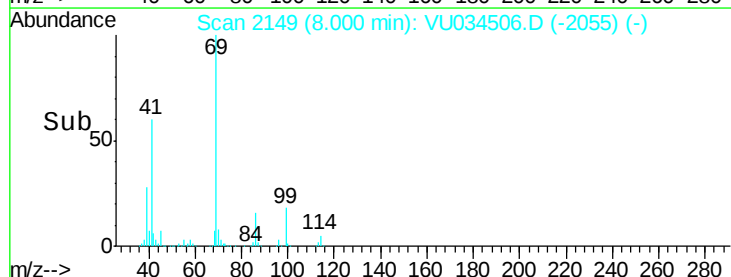
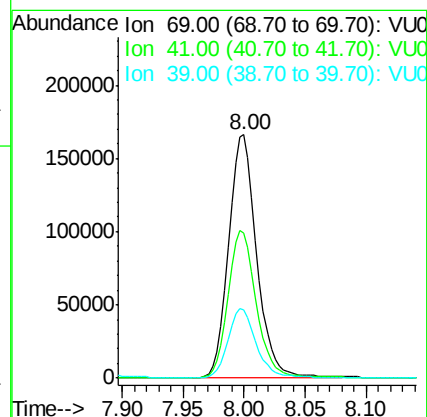
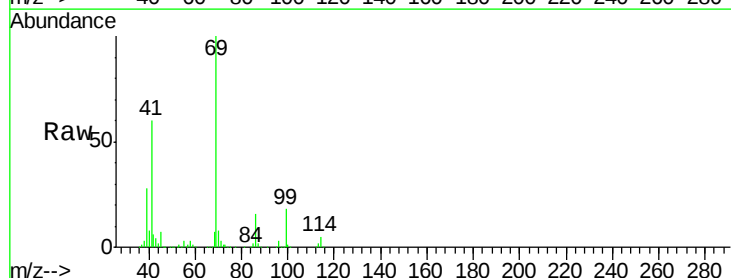
Manual Integrations
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 9/16/2019 11:16:27 AM



#56
 Ethyl methacrylate
 Concen: 49.338 ug/l
 RT: 8.00 min Scan# 2149
 Delta R.T. 0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		269439		
41	60.5	49.5	74.3		
39	28.2	22.5	33.7		





#57

1,3-Dichloropropane

Concen: 52.876 ug/l

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 309756

Ion Ratio Lower Upper

76 100

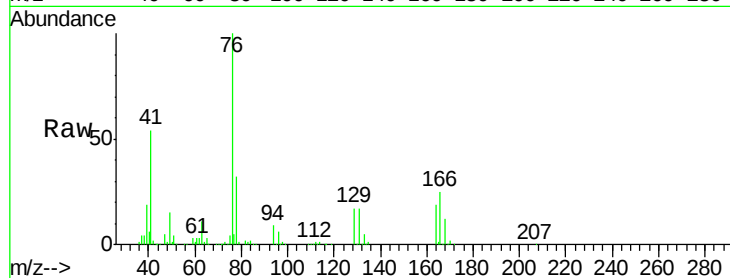
78 32.0 25.4 38.2

Manual Integrations

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MMDadoda

9/16/2019 11:16:27 AM



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

8.22

200000

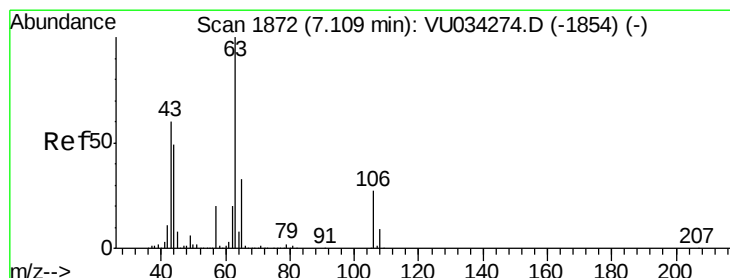
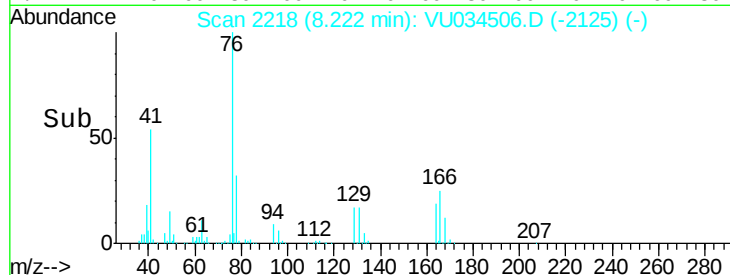
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 247.930 ug/l

RT: 7.11 min Scan# 1871

Delta R.T. -0.00 min

Lab File: VU034506.D

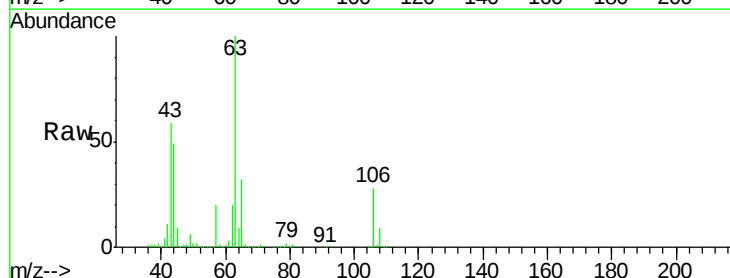
Acq: 12 Sep 2019 09:27

Tgt Ion: 63 Resp: 458204

Ion Ratio Lower Upper

63 100

106 27.0 21.6 32.4



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 105.90 (105.60 to 106.60): V

7.11

300000

250000

200000

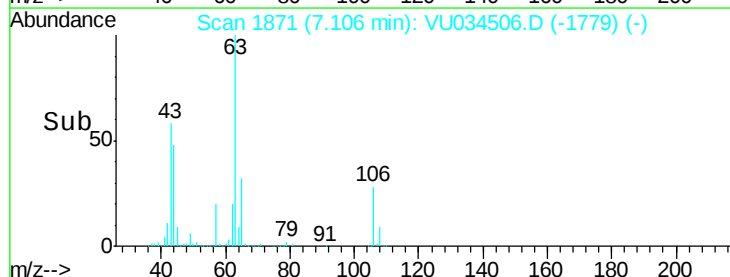
150000

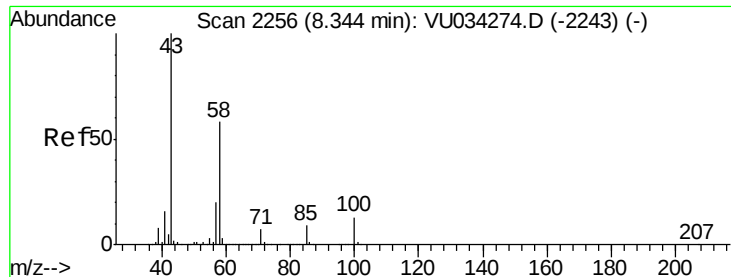
100000

50000

0

Time-->





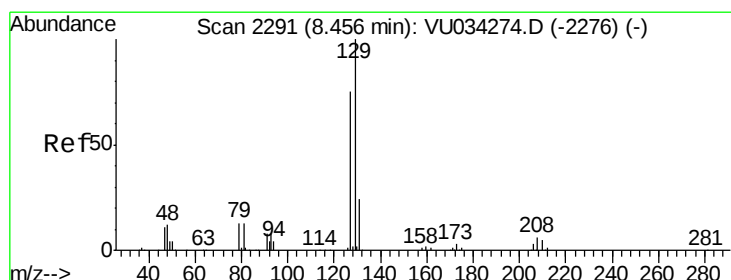
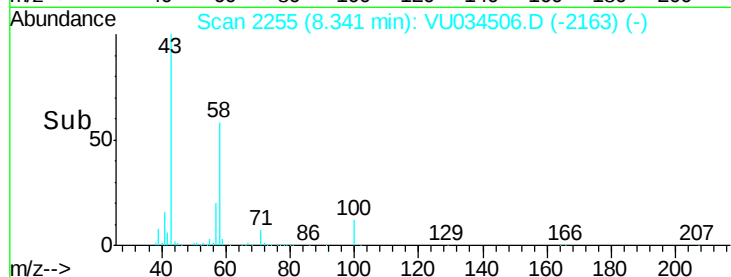
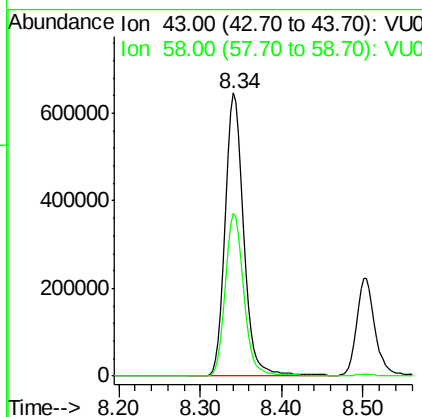
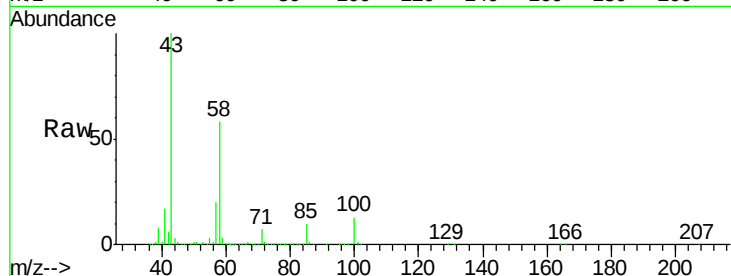
#59
2-Hexanone
Concen: 280.479 ug/l
RT: 8.34 min Scan# 2255
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1047093
Ion Ratio Lower Upper
43 100
58 57.9 28.8 86.5

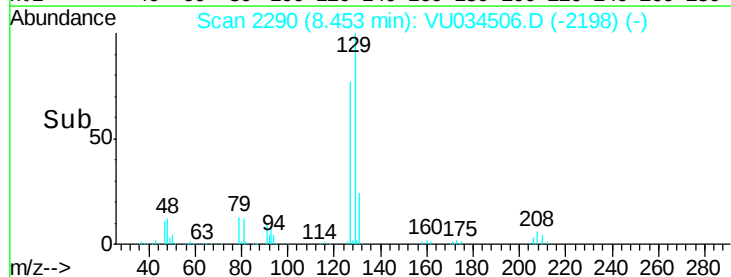
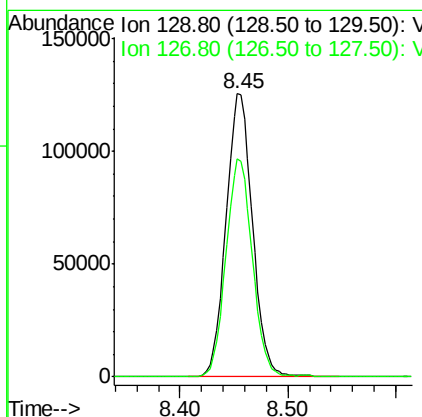
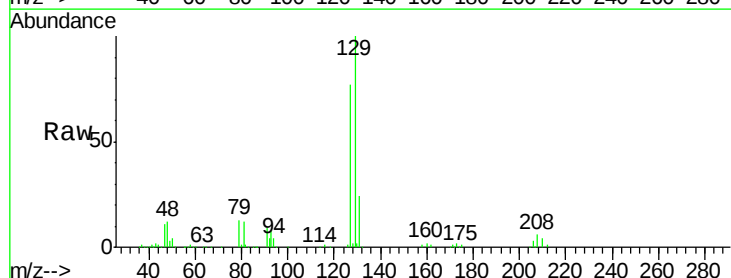
Manual Integrations
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#60
Dibromochloromethane
Concen: 55.777 ug/l
RT: 8.45 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion: 129 Resp: 215235
Ion Ratio Lower Upper
129 100
127 76.6 37.9 113.7





#61

1,2-Dibromoethane

Concen: 54.078 ug/l

RT: 8.57 min Scan# 2325

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 190425

Ion Ratio Lower Upper

107 100

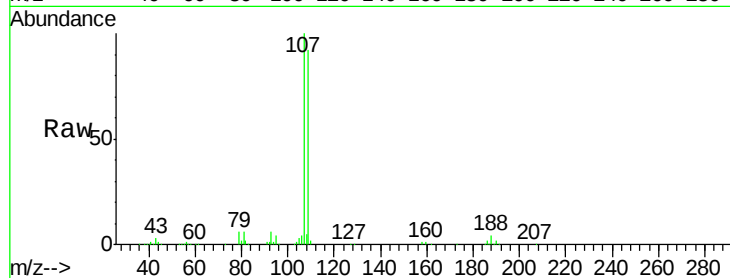
109 93.9 75.0 112.6

Manual Integrations

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.57

120000

100000

80000

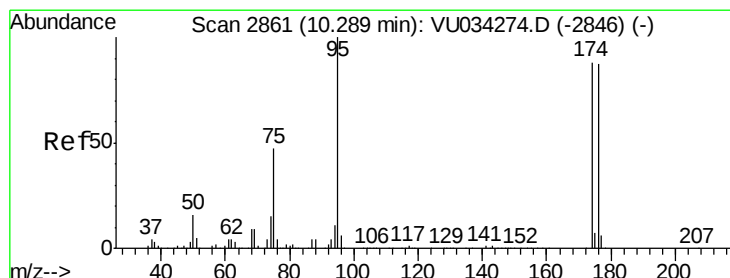
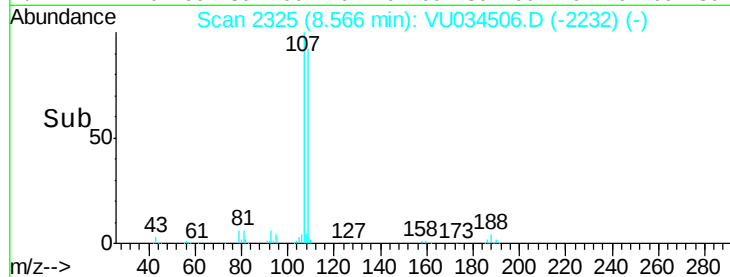
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 50.711 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

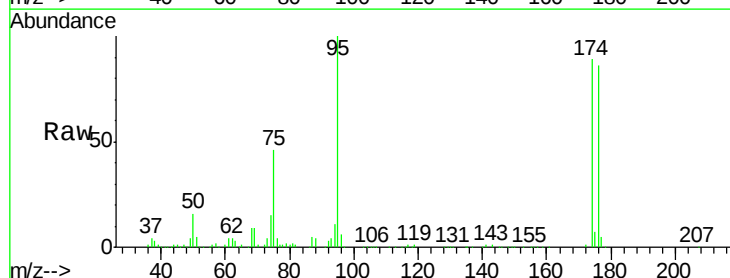
Tgt Ion: 95 Resp: 247039

Ion Ratio Lower Upper

95 100

174 89.1 0.0 175.2

176 86.3 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

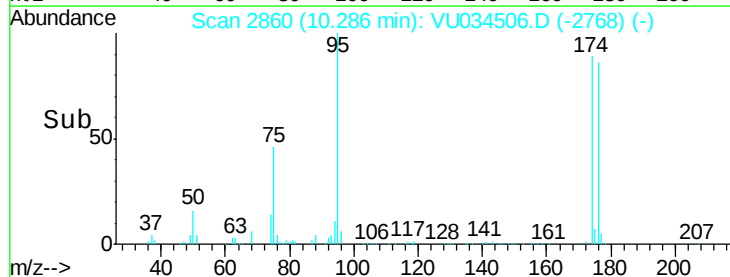
150000

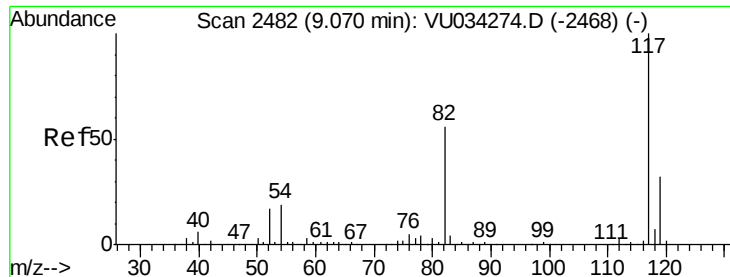
100000

50000

0

Time-->





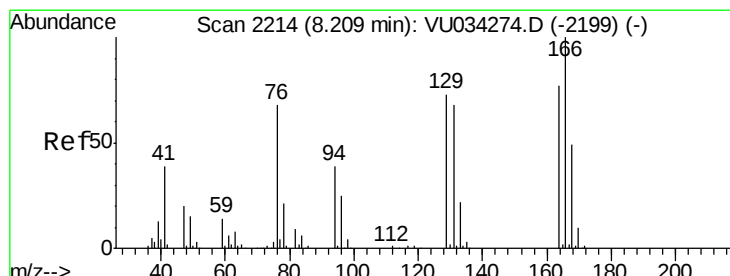
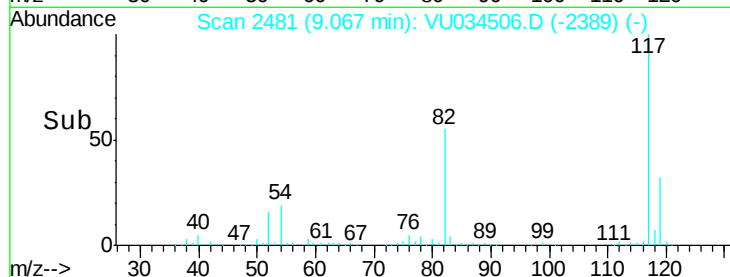
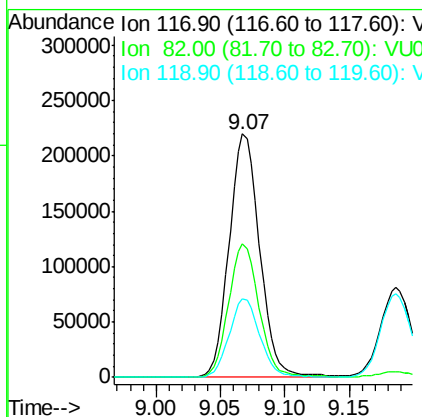
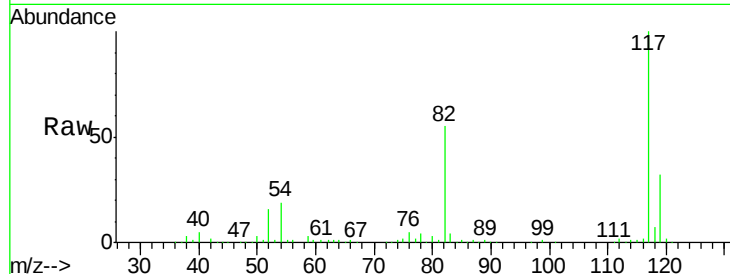
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2481
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.6	67.0
119	32.5	25.9	38.9

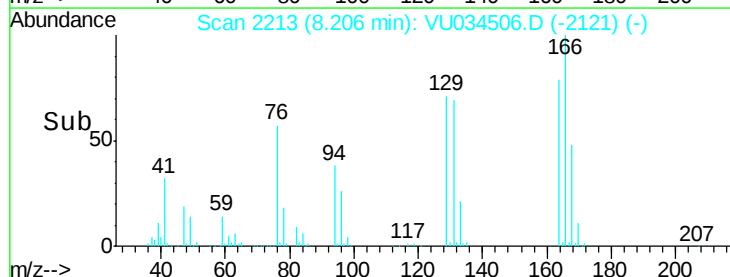
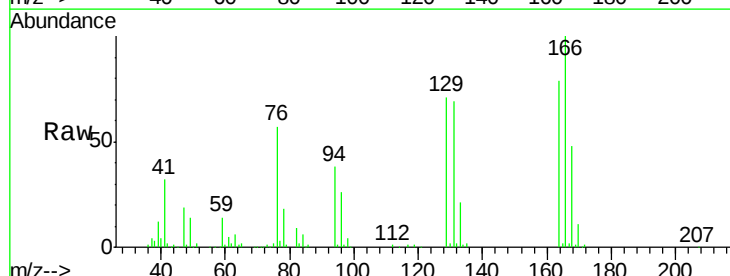
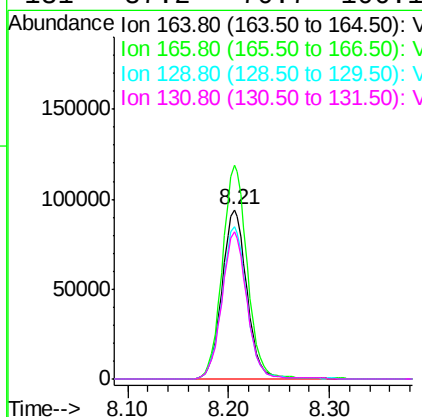
Manual Integrations
APPROVED

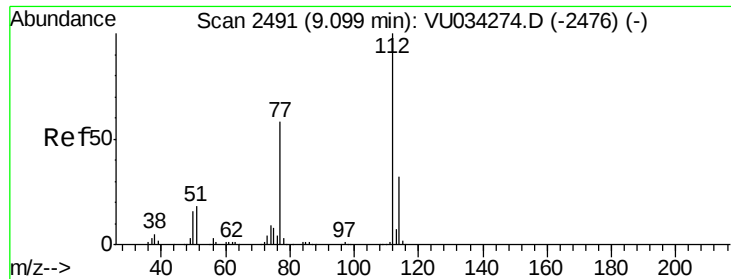
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#64
Tetrachloroethene
Concen: 51.609 ug/l
RT: 8.21 min Scan# 2213
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.4	103.7	155.5
129	90.2	75.8	113.8
131	87.2	70.7	106.1





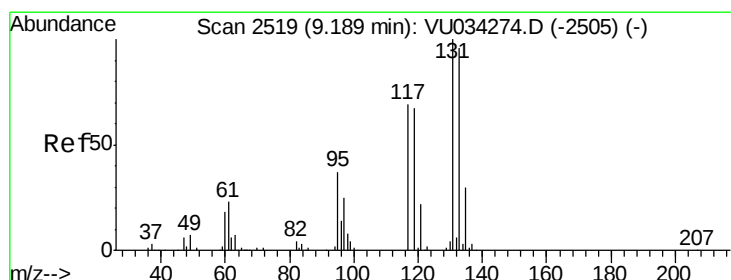
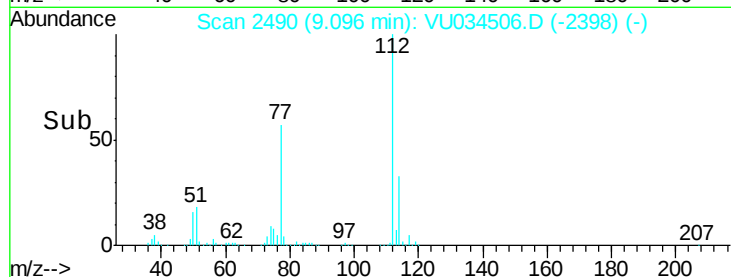
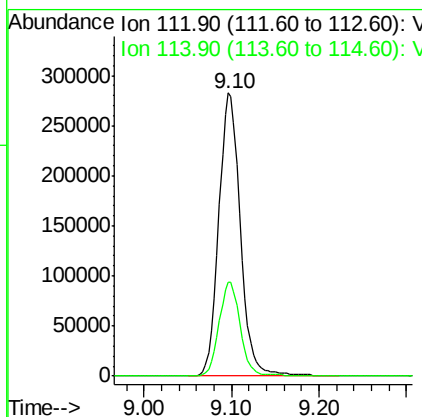
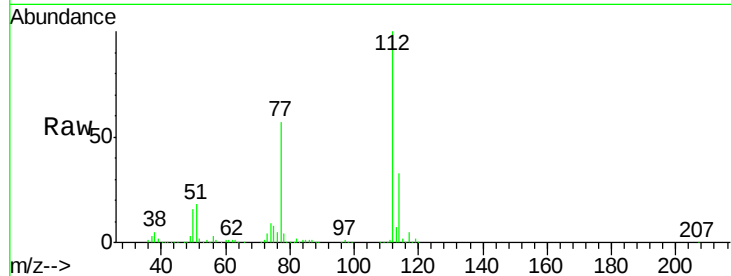
#65
Chlorobenzene
Concen: 52.643 ug/l
RT: 9.10 min Scan# 2490
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 485023
Ion Ratio Lower Upper
112 100
114 33.1 25.9 38.9

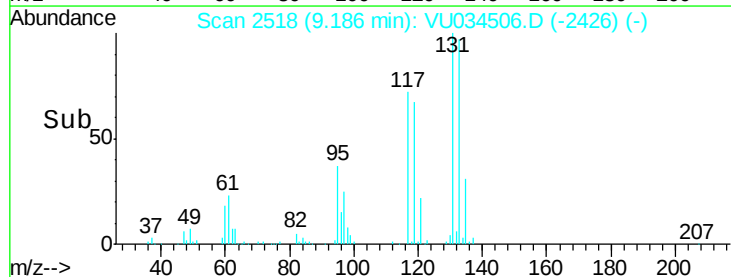
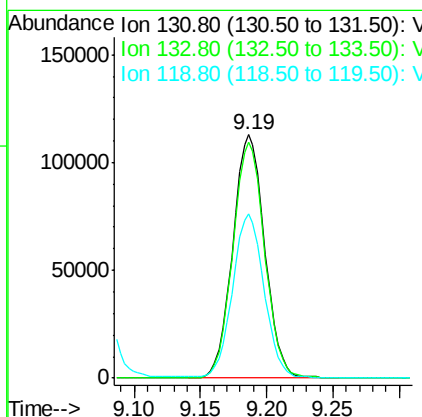
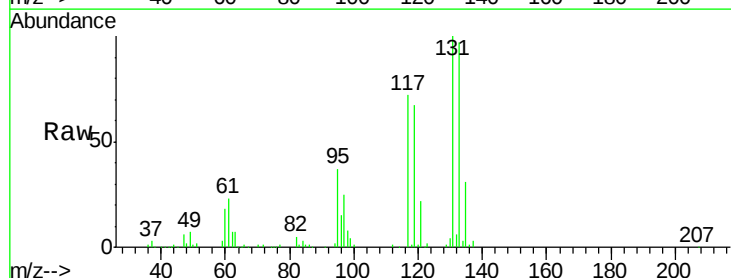
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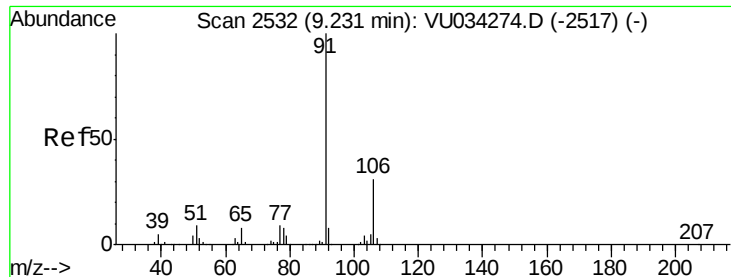
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#66
1,1,1,2-Tetrachloroethane
Concen: 53.579 ug/l
RT: 9.19 min Scan# 2518
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion:131 Resp: 188392
Ion Ratio Lower Upper
131 100
133 96.8 47.9 143.7
119 67.0 33.1 99.5





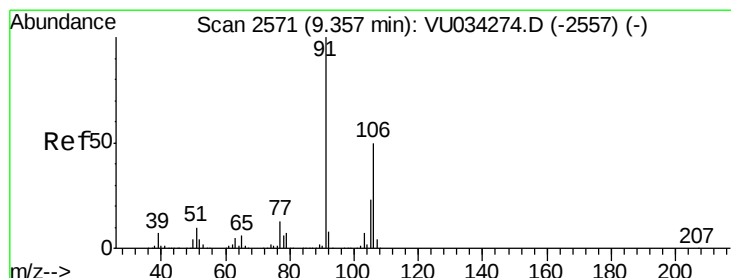
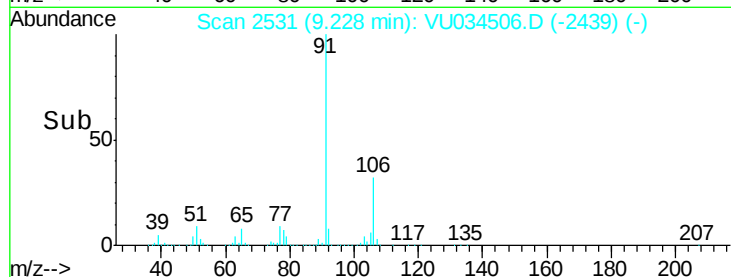
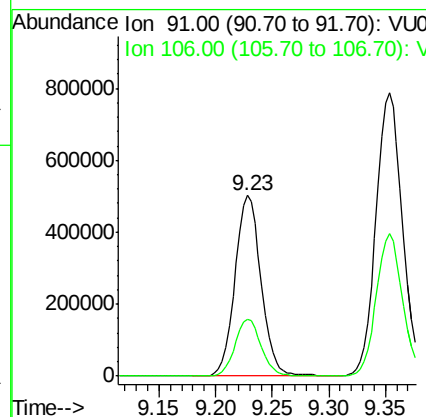
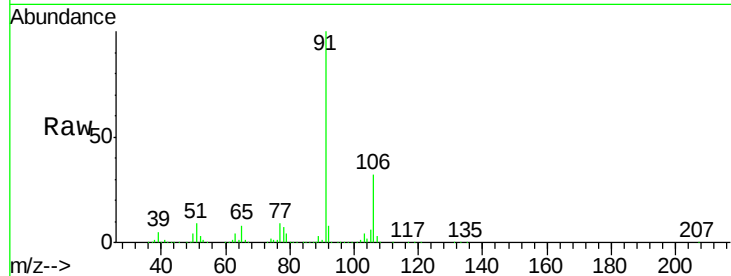
#67
Ethyl Benzene
Concen: 53.576 ug/l
RT: 9.23 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	91	Resp	807105
Ion Ratio	100	Lower	Upper
106	31.8	24.8	37.2

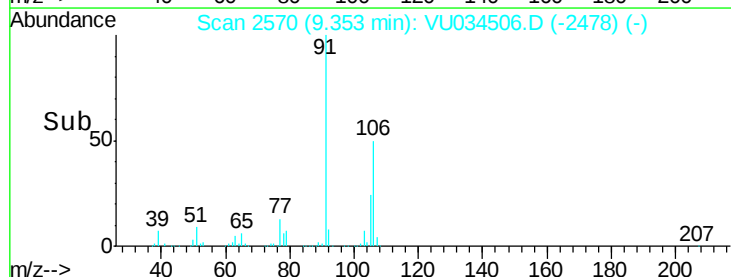
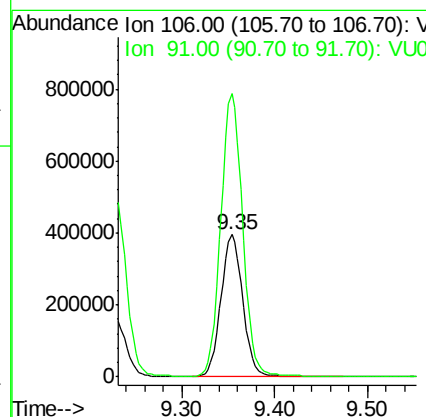
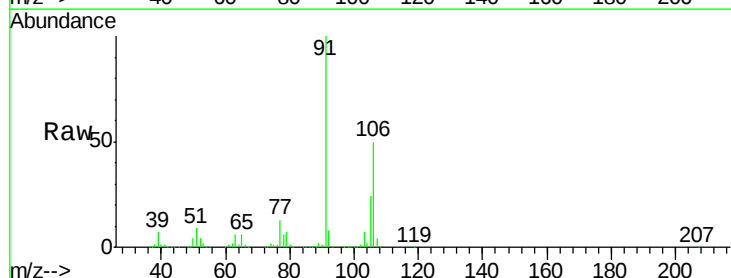
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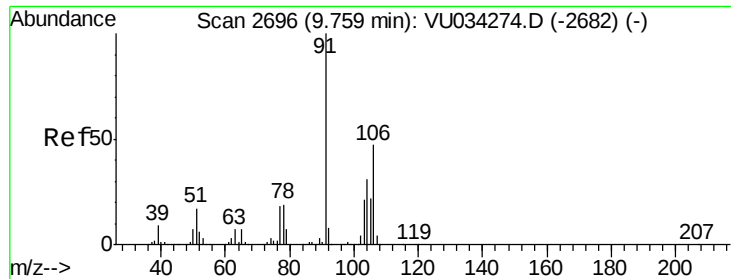
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#68
m/p-Xylenes
Concen: 113.614 ug/l
RT: 9.35 min Scan# 2570
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	106	Resp	644499
Ion Ratio	100	Lower	Upper
91	200.1	160.1	240.1





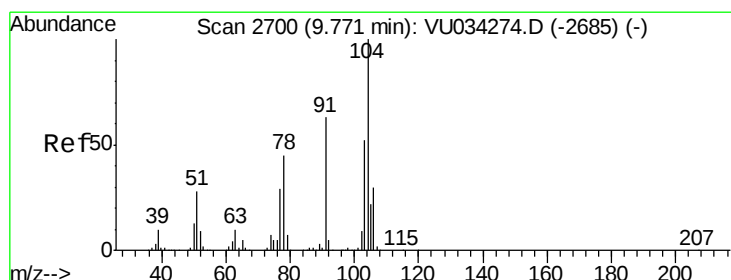
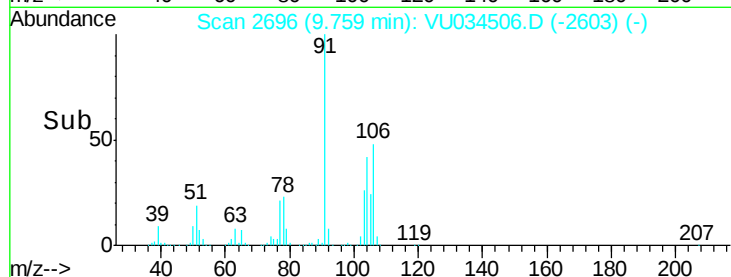
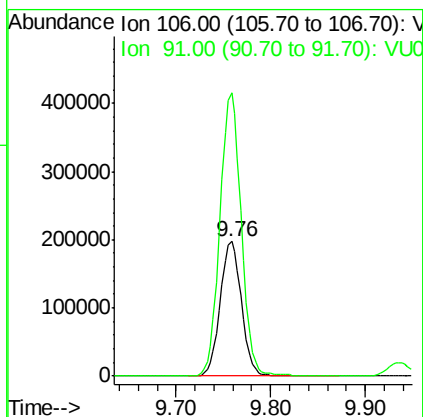
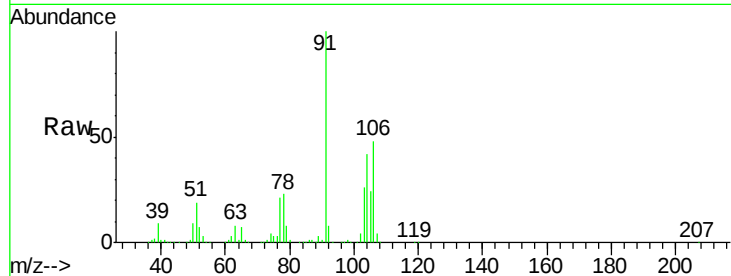
#69
o-Xylene
Concen: 55.674 ug/l
RT: 9.76 min Scan# 2696
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
106	100	308863		
91	210.4	105.1	315.3	

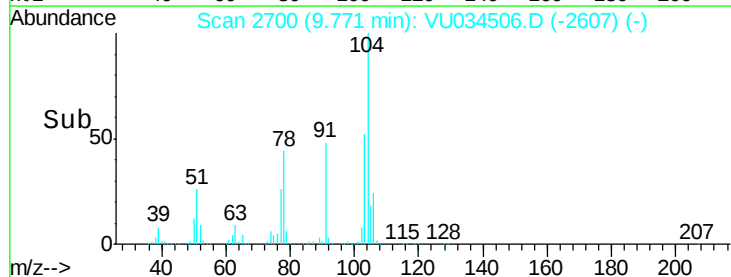
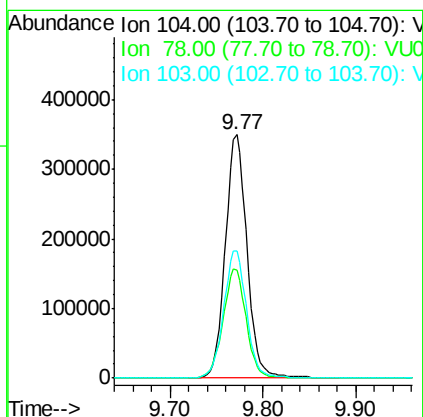
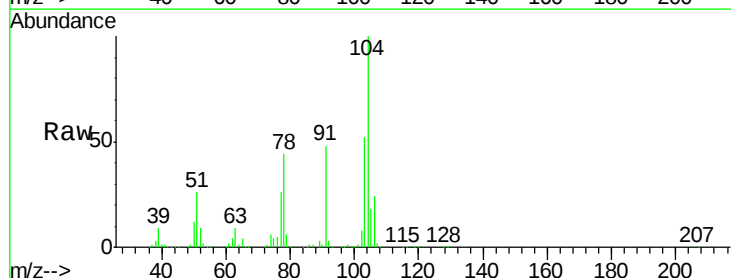
Manual Integrations
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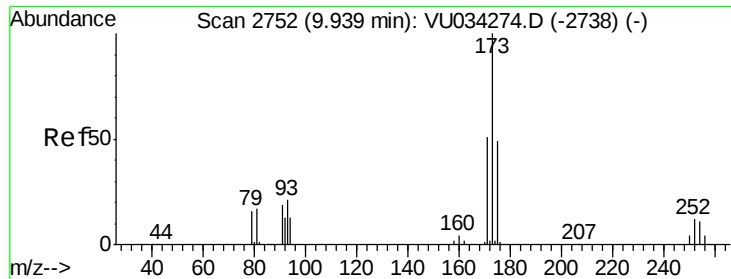
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#70
Styrene
Concen: 58.513 ug/l
RT: 9.77 min Scan# 2700
Delta R.T. 0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	569135		
78	47.9	38.6	57.8	
103	55.3	44.2	66.4	





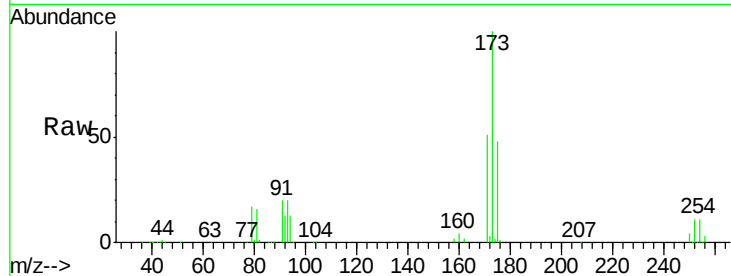
#71
Bromoform
Concen: 55.642 ug/l
RT: 9.94 min Scan# 2751
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

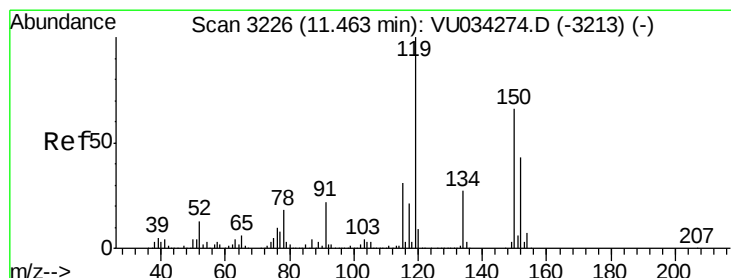
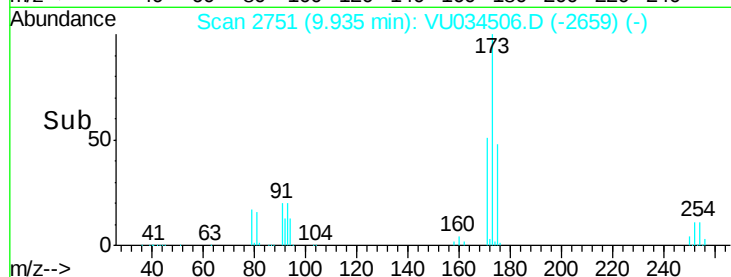
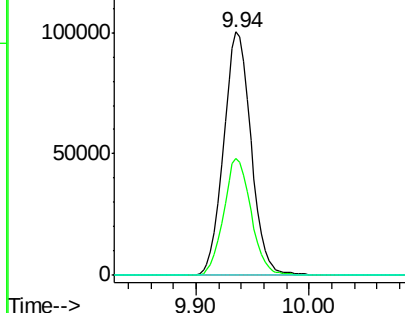
Tot Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.4	73.2
254	0.1	0.0	0.0#

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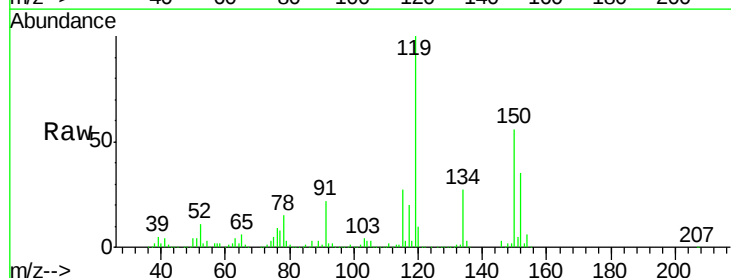


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

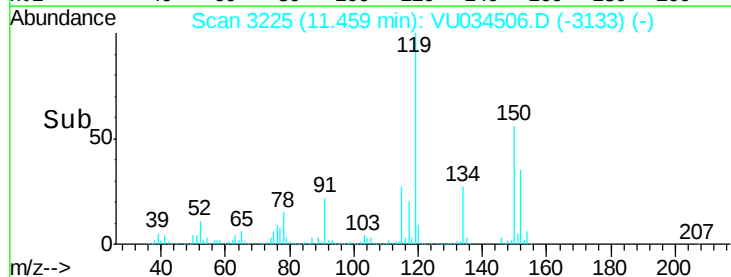
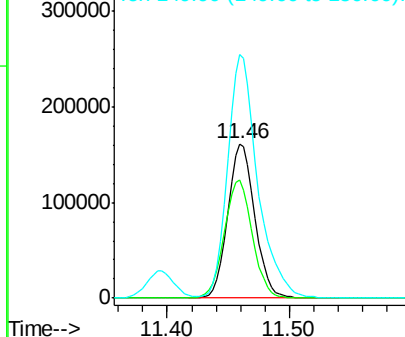


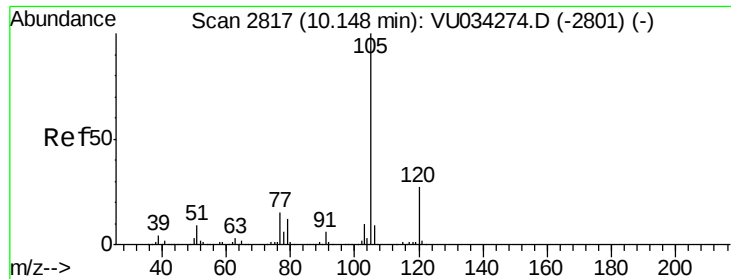
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3225
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
152	100		
115	79.2	39.1	117.3
150	174.3	0.0	345.4



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





#73

Isopropylbenzene

Concen: 52.870 ug/l

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 860873

Ion Ratio Lower Upper

105 100

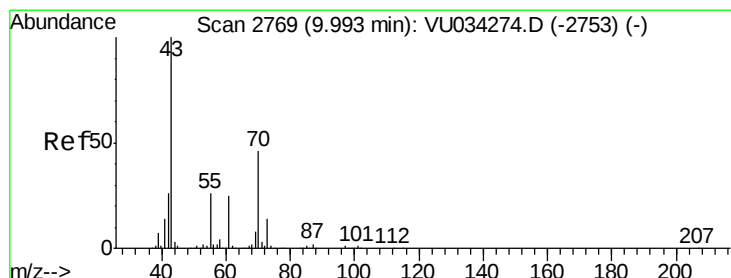
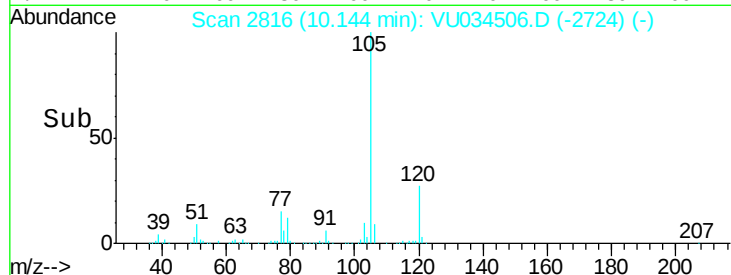
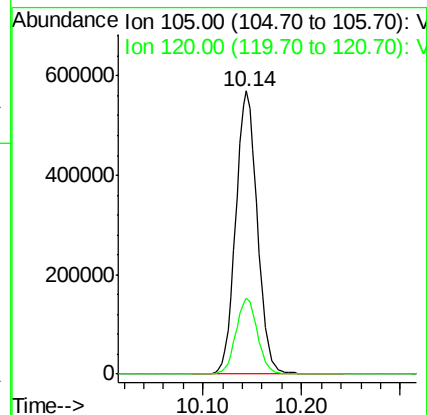
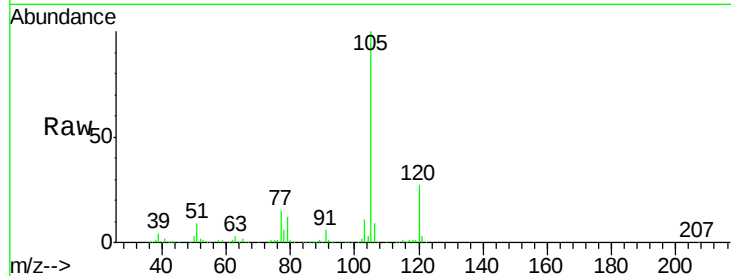
120 26.8 13.4 40.2

Manual Integrations

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#74

N-ethyl acetate

Concen: 52.791 ug/l

RT: 9.99 min Scan# 2769

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Tgt Ion: 43 Resp: 346008

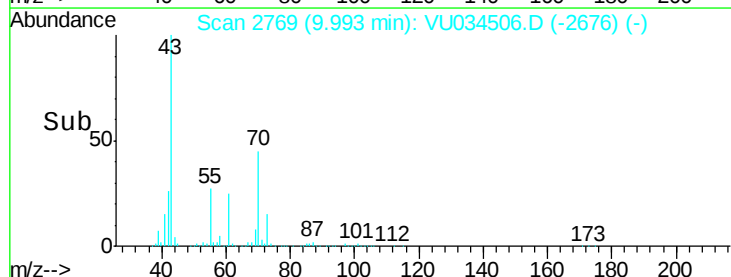
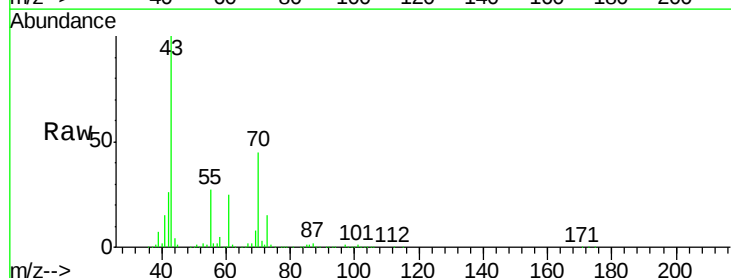
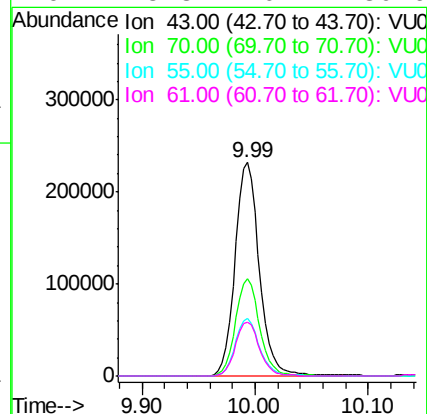
Ion Ratio Lower Upper

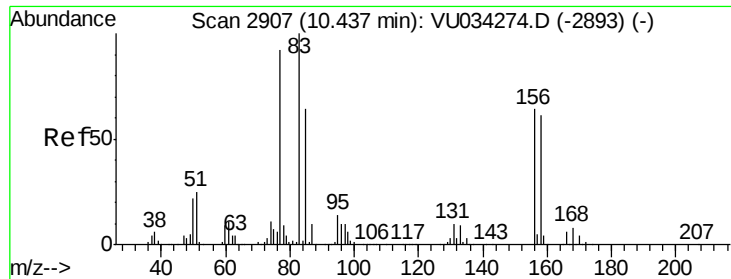
43 100

70 45.5 36.4 54.6

55 27.1 21.2 31.8

61 25.3 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 50.270 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

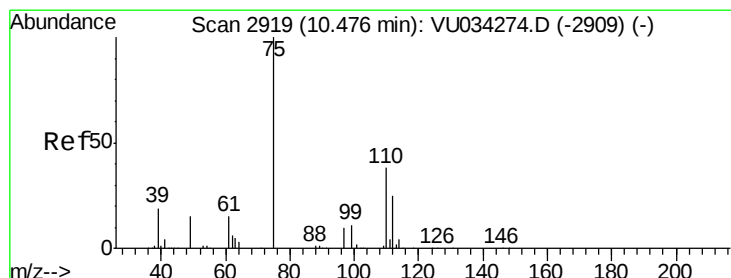
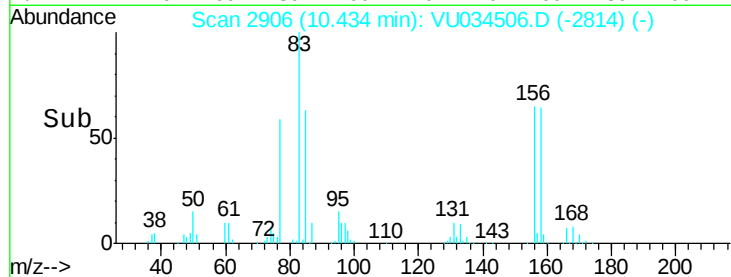
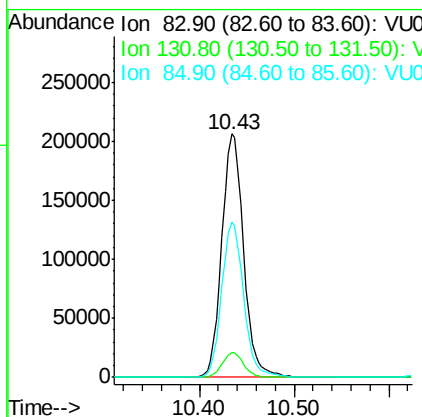
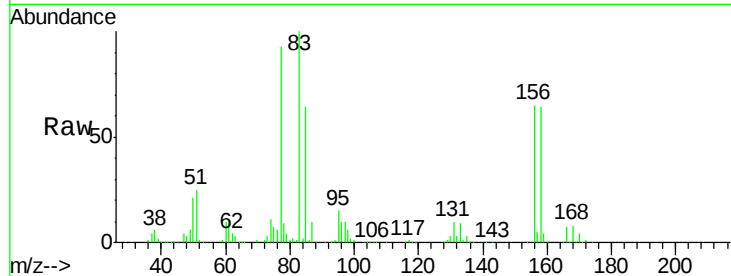
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	331324
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.1	15.2
85	64.3	32.0	96.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 51.795 ug/l m

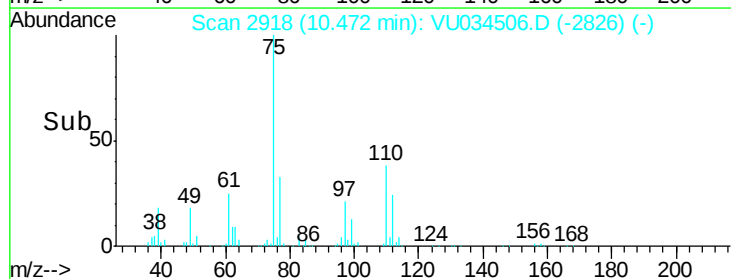
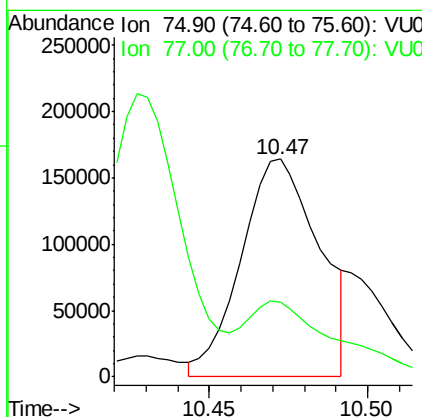
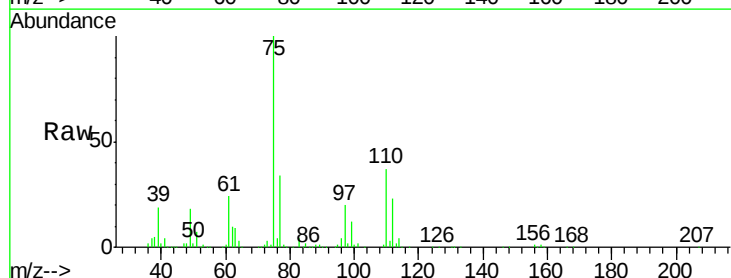
RT: 10.47 min Scan# 2918

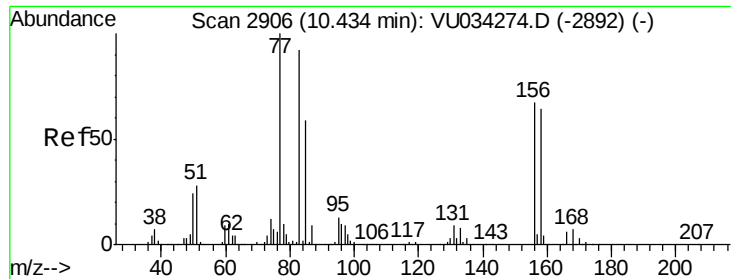
Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Tgt Ion:	75	Resp:	282882
Ion Ratio	Lower	Upper	
75	100		
77	40.9	20.8	62.2





#77

Bromobenzene

Concen: 51.847 ug/l

RT: 10.43 min Scan# 2905

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 236051

Ion Ratio Lower Upper

156 100

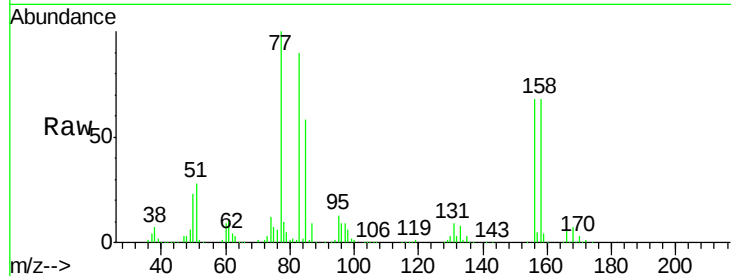
77 148.5 75.6 226.9

158 97.6 48.2 144.6

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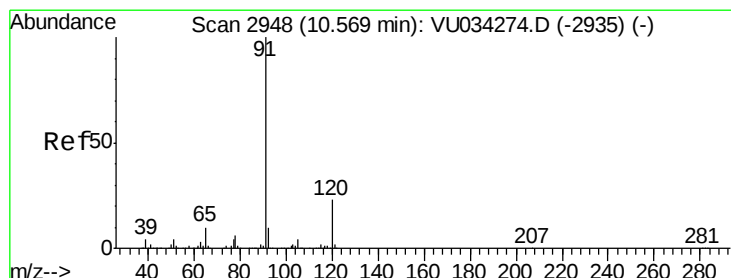
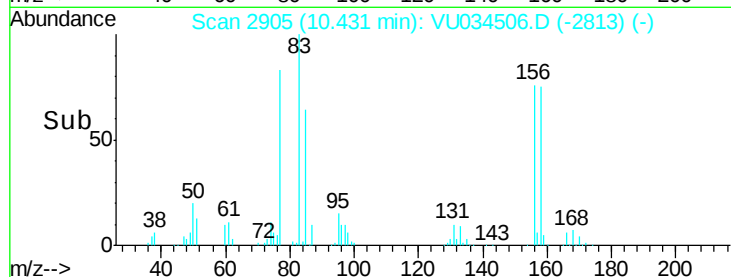
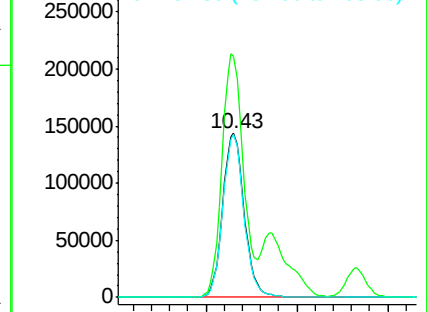
9/16/2019 11:16:27 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 53.721 ug/l

RT: 10.57 min Scan# 2947

Delta R.T. -0.00 min

Lab File: VU034506.D

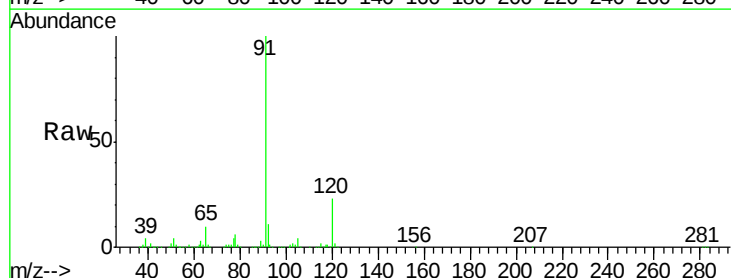
Acq: 12 Sep 2019 09:27

Tgt Ion: 91 Resp: 1010228

Ion Ratio Lower Upper

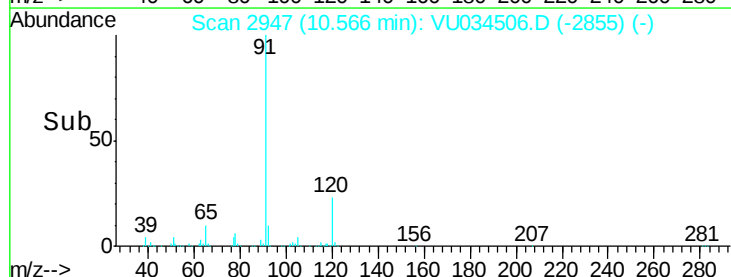
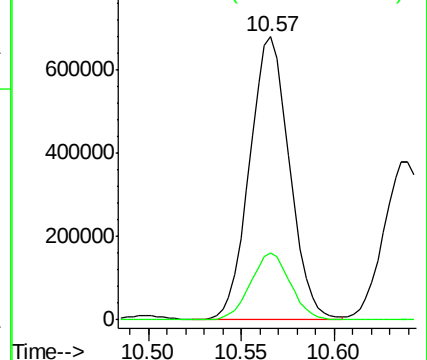
91 100

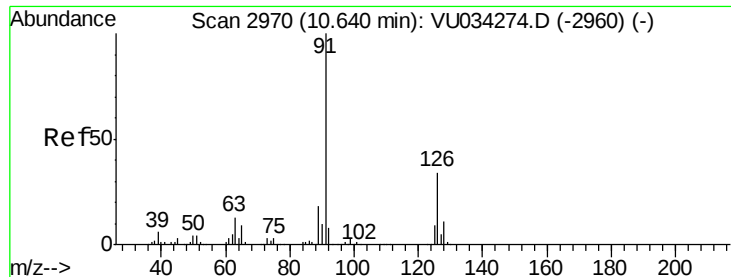
120 23.6 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 52.552 ug/l

RT: 10.64 min Scan# 2970

Delta R.T. 0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 602992

Ion Ratio Lower Upper

91 100

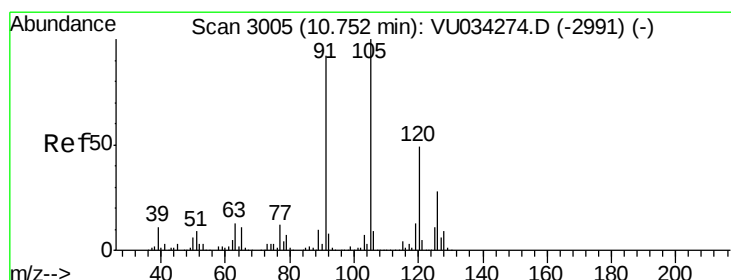
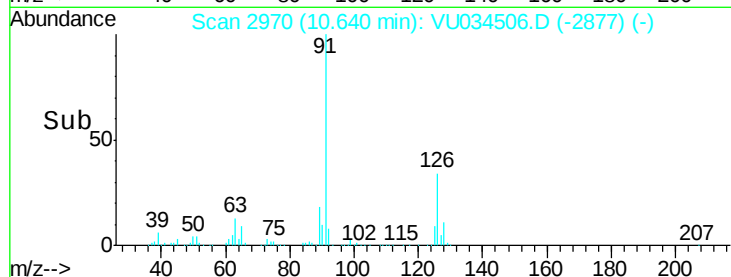
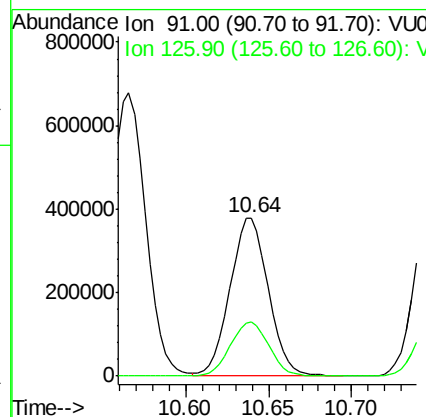
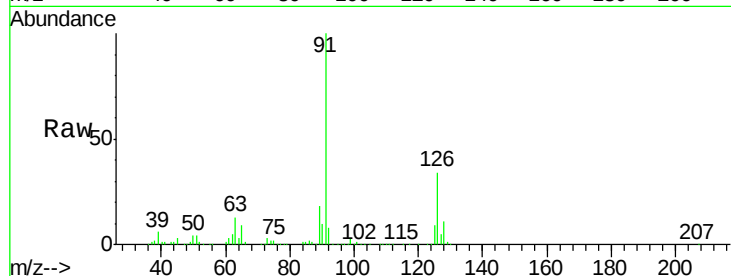
126 34.8 17.3 51.9

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#80

1,3,5-Trimethylbenzene

Concen: 55.742 ug/l

RT: 10.75 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VU034506.D

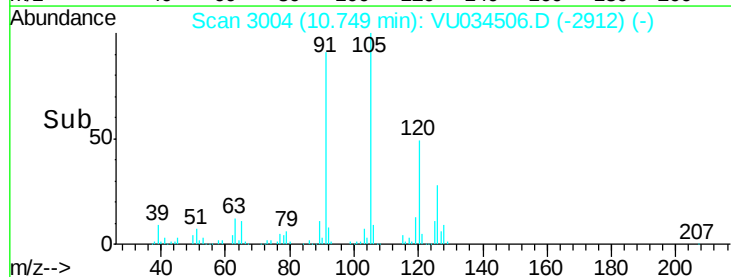
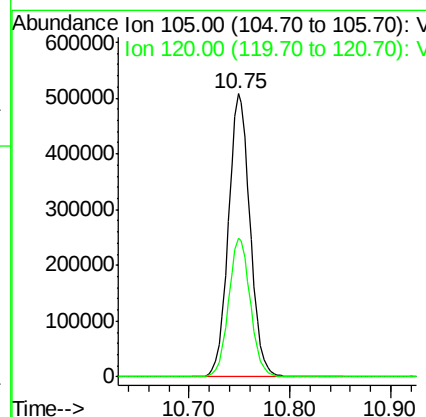
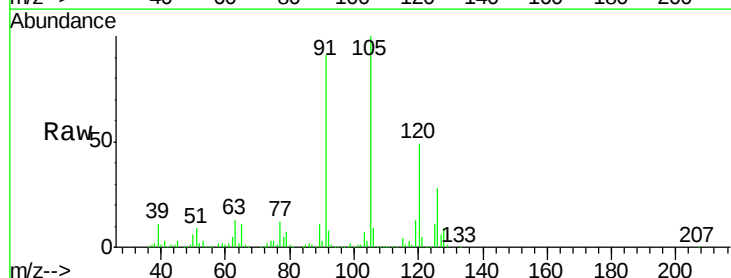
Acq: 12 Sep 2019 09:27

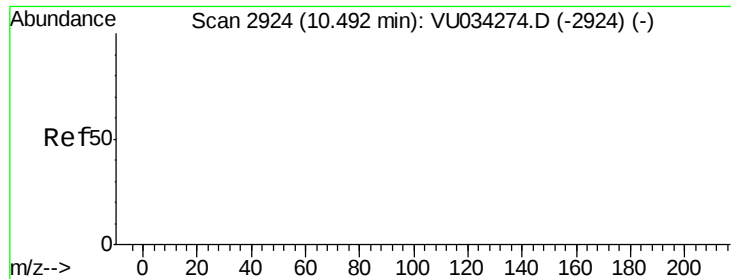
Tgt Ion: 105 Resp: 759096

Ion Ratio Lower Upper

105 100

120 49.3 24.9 74.7





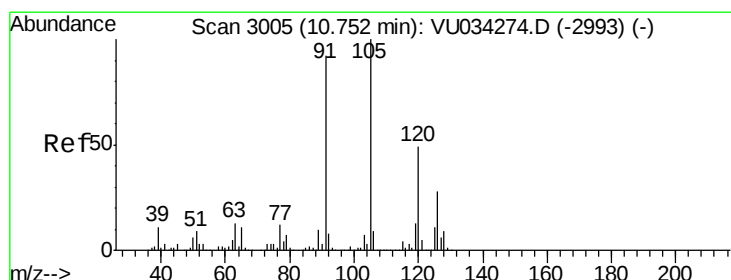
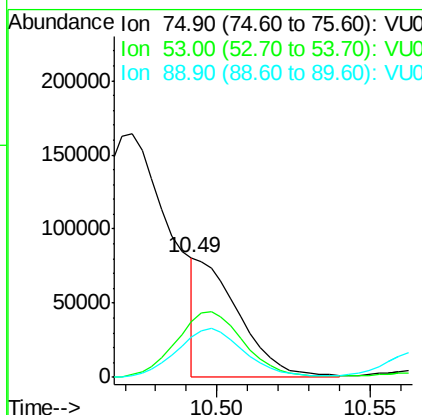
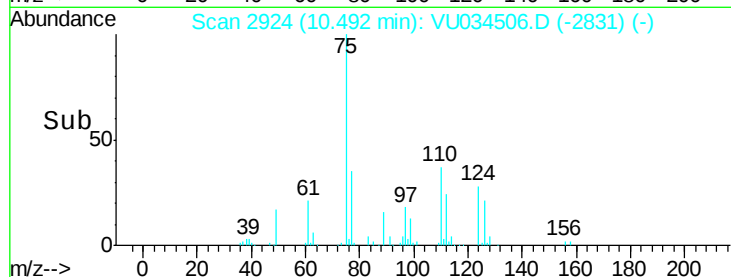
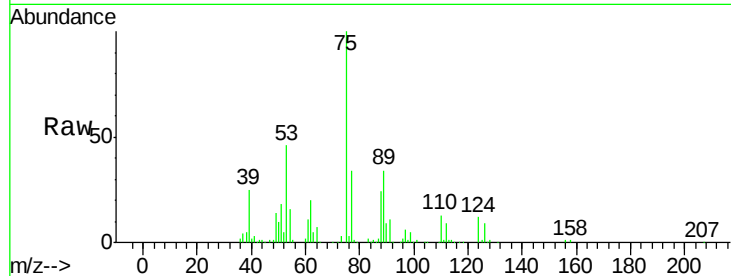
#81
trans-1,4-Dichloro-2-butene
Concen: 47.167 ug/l m
RT: 10.49 min Scan# 2924
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

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

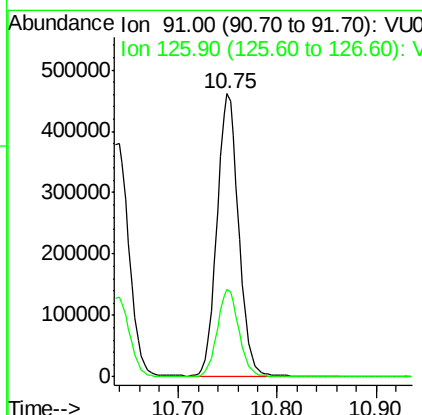
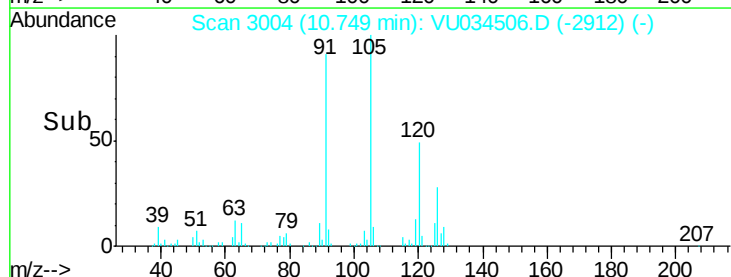
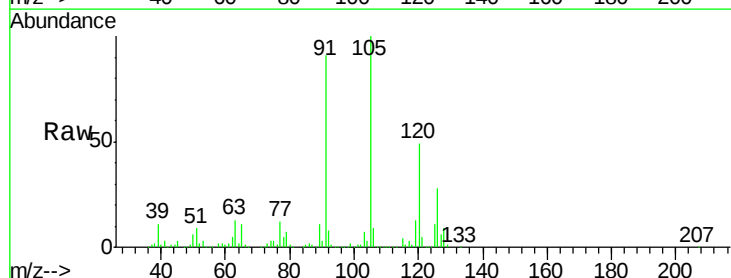
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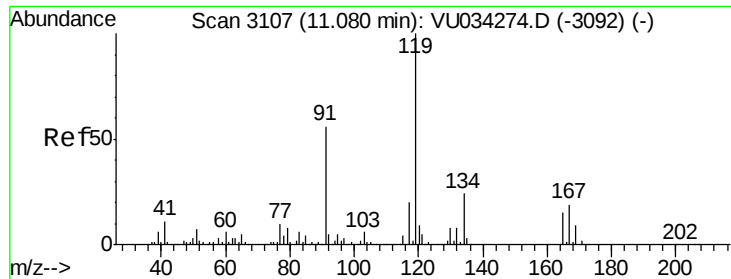
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#82
4-Chlorotoluene
Concen: 53.859 ug/l
RT: 10.75 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.6	15.3	45.8





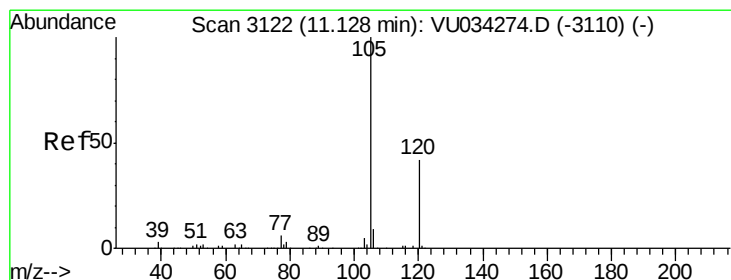
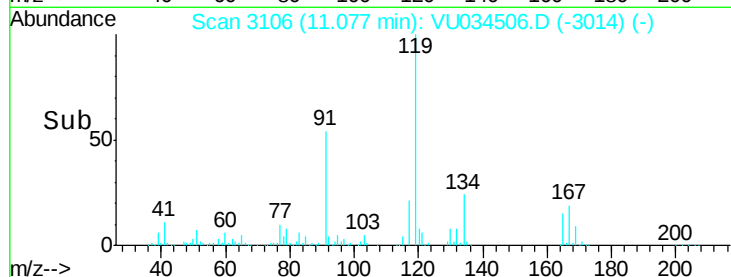
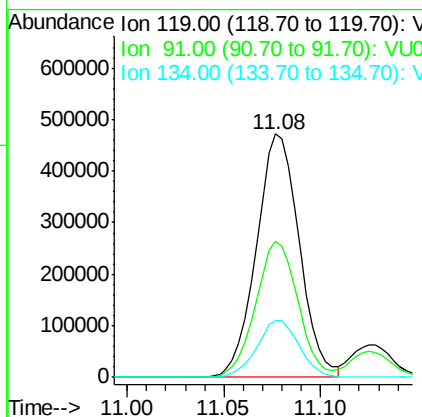
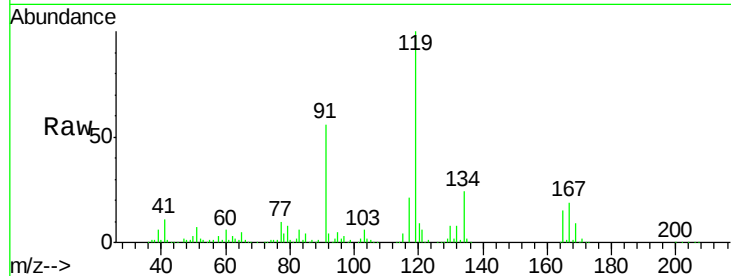
#83
tert-Butylbenzene
Concen: 53.534 ug/l
RT: 11.08 min Scan# 3106
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	55.2	27.8	83.4
134	23.2	11.7	35.0

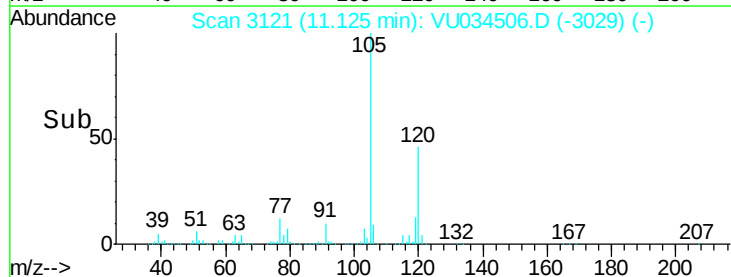
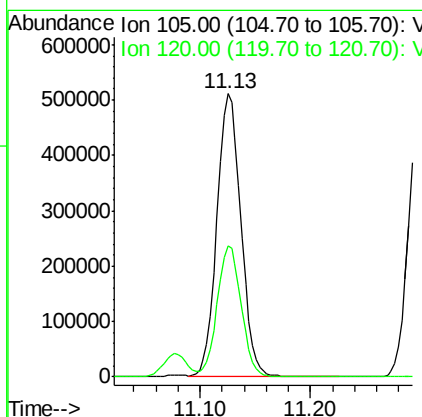
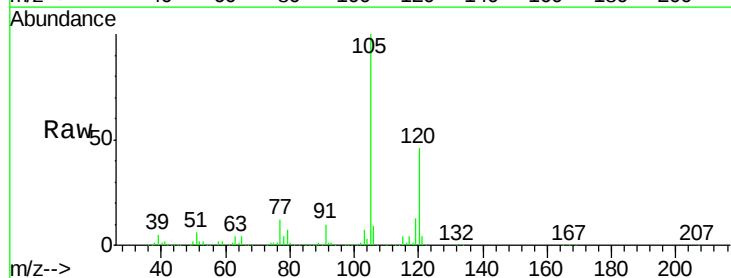
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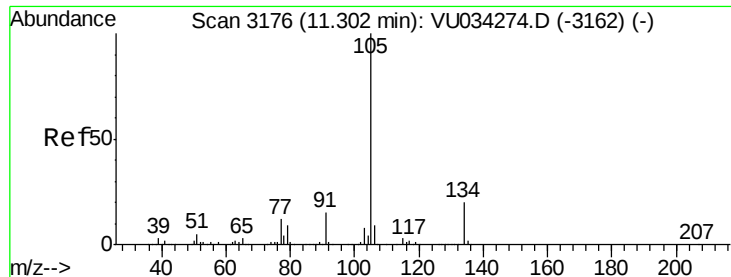
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#84
1,2,4-Trimethylbenzene
Concen: 56.107 ug/l
RT: 11.13 min Scan# 3121
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	22.9	68.8





#85

sec-Butylbenzene

Concen: 55.047 ug/l

RT: 11.30 min Scan# 3176

Delta R.T. 0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 885321

Ion Ratio Lower Upper

105 100

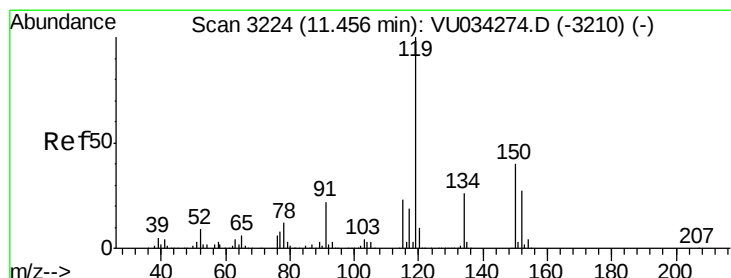
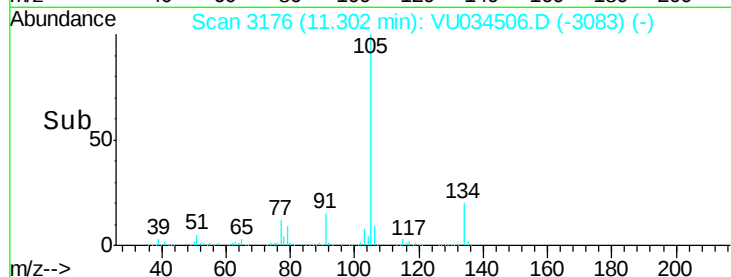
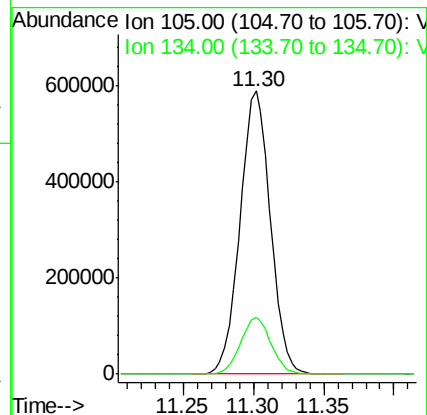
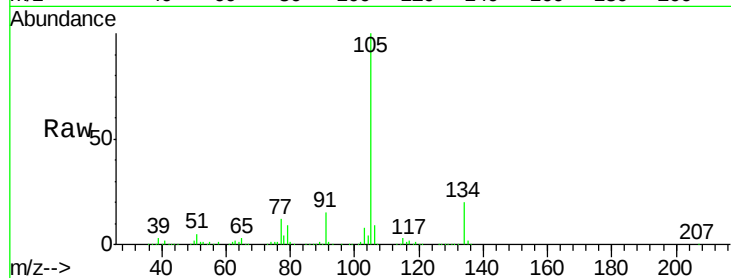
134 20.1 10.1 30.3

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 55.411 ug/l

RT: 11.45 min Scan# 3223

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

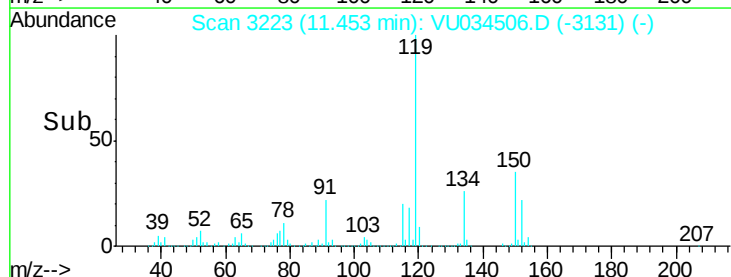
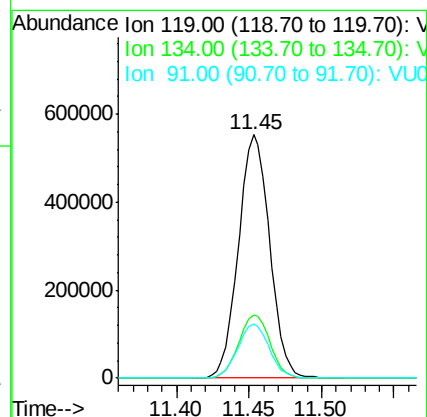
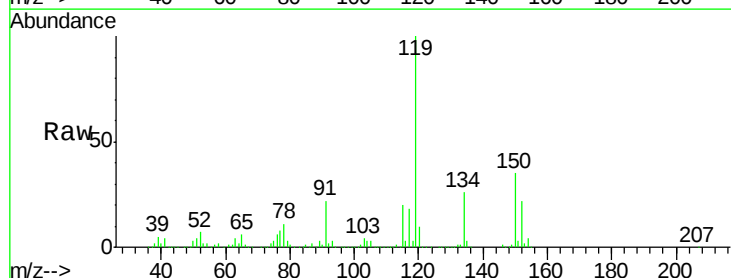
Tgt Ion:119 Resp: 822552

Ion Ratio Lower Upper

119 100

134 26.2 13.3 39.8

91 22.3 11.2 33.6





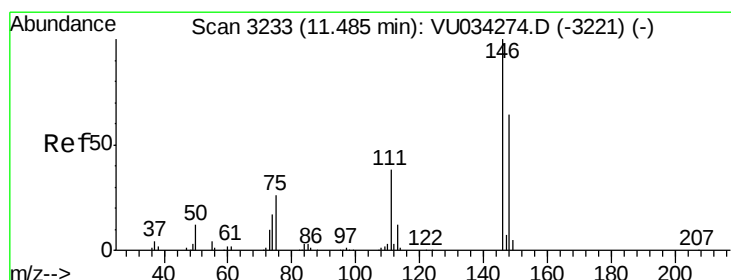
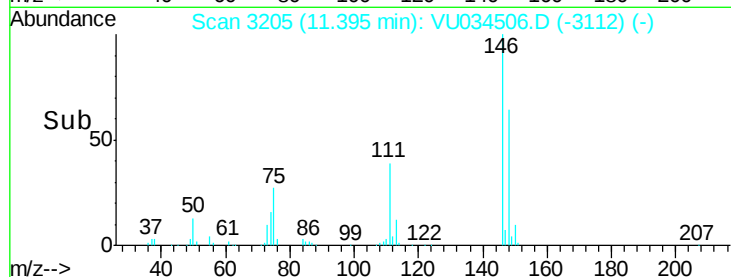
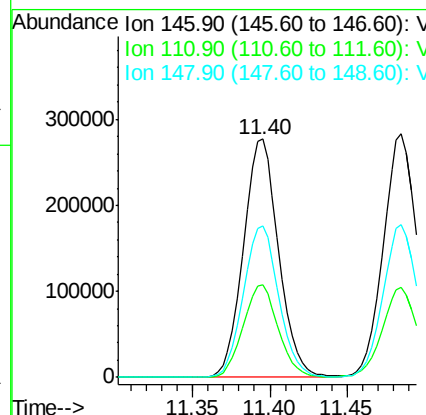
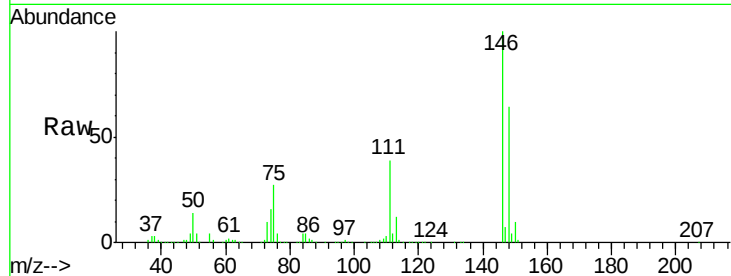
#87
 1,3-Dichlorobenzene
 Concen: 52.728 ug/l
 RT: 11.40 min Scan# 3205
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.5	58.5
148	63.8	32.1	96.3

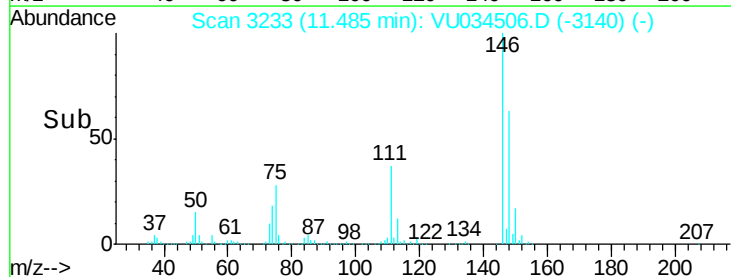
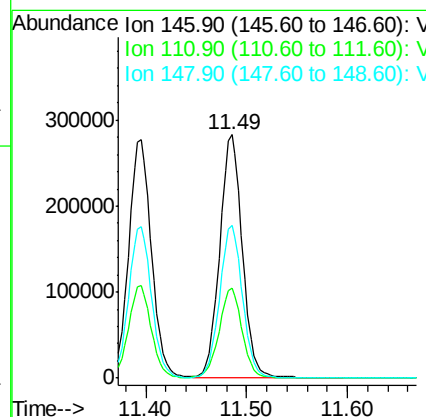
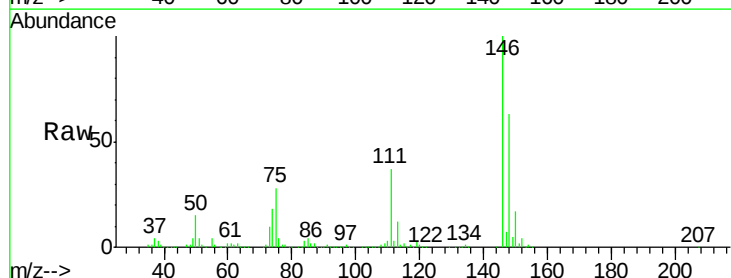
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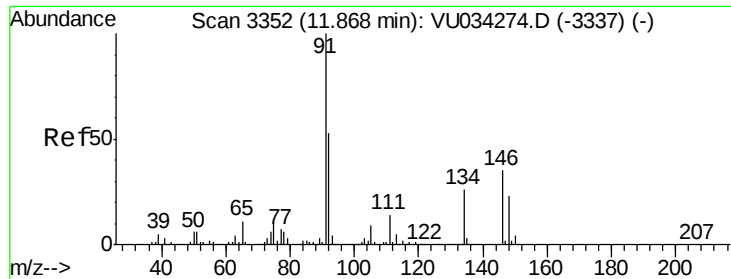
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#88
 1,4-Dichlorobenzene
 Concen: 50.835 ug/l
 RT: 11.49 min Scan# 3233
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.4	19.1	57.3
148	63.6	32.0	96.0





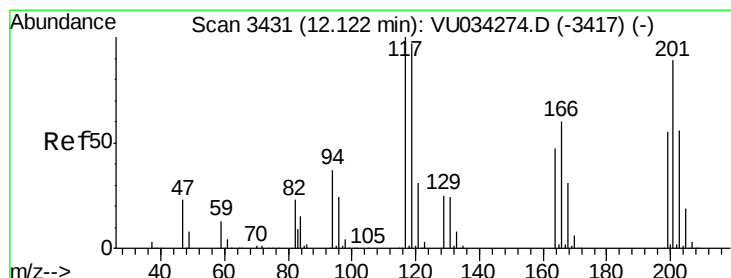
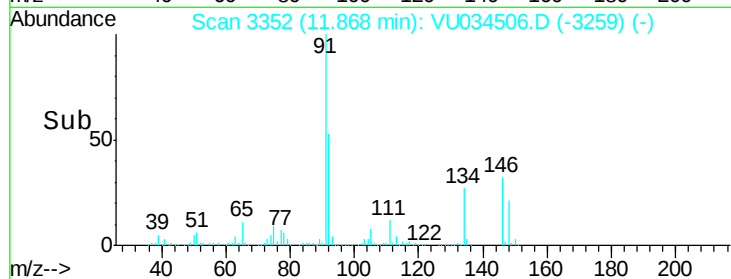
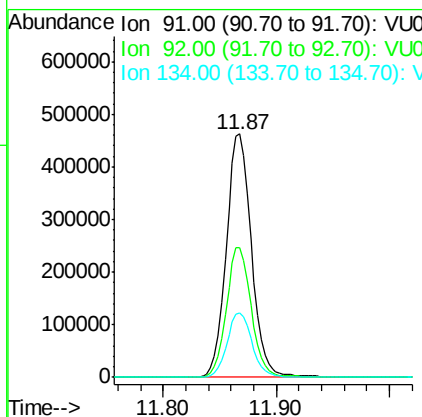
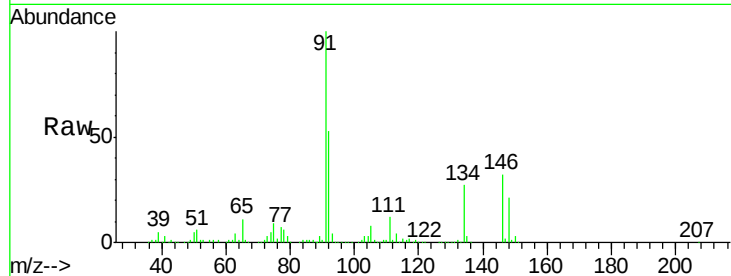
#89
n-Butylbenzene
Concen: 55.462 ug/l
RT: 11.87 min Scan# 3352
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Instrument :
MSVOA_U
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.5	79.4
134	26.5	13.2	39.6

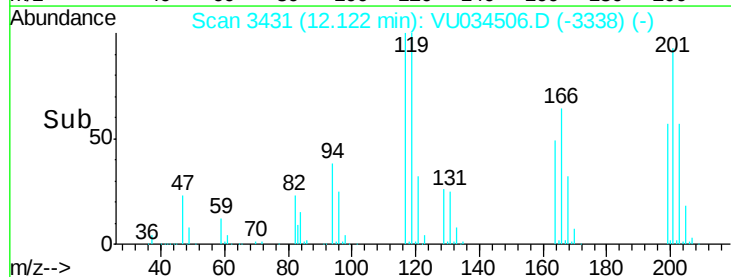
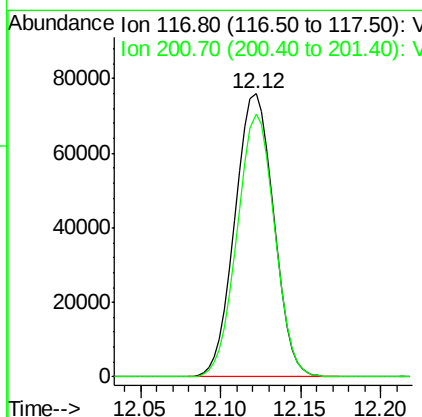
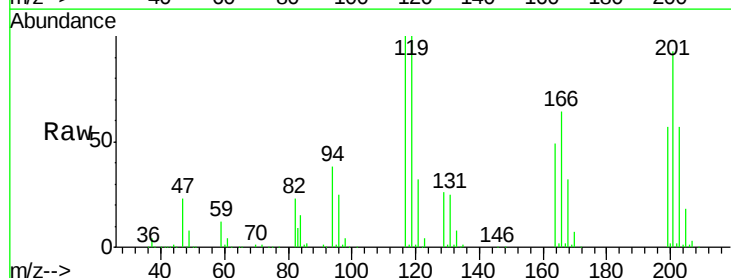
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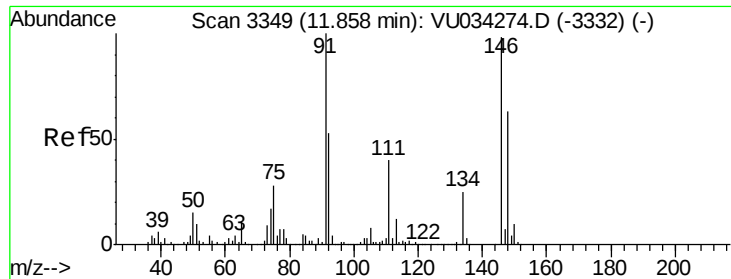
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#90
Hexachloroethane
Concen: 52.941 ug/l
RT: 12.12 min Scan# 3431
Delta R.T. -0.00 min
Lab File: VU034506.D
Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.7	44.1	132.4





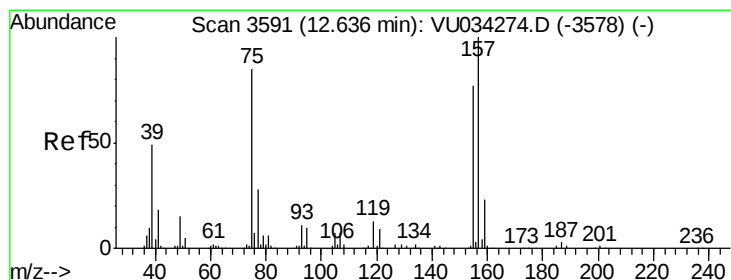
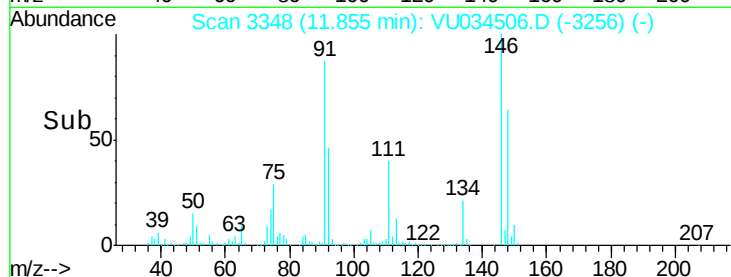
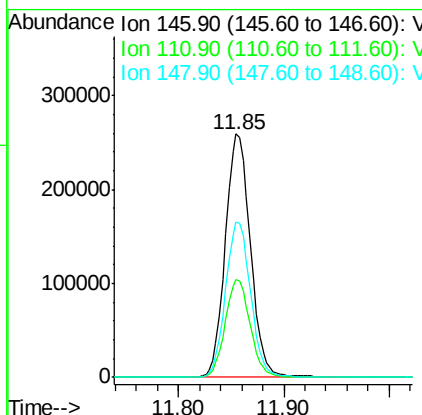
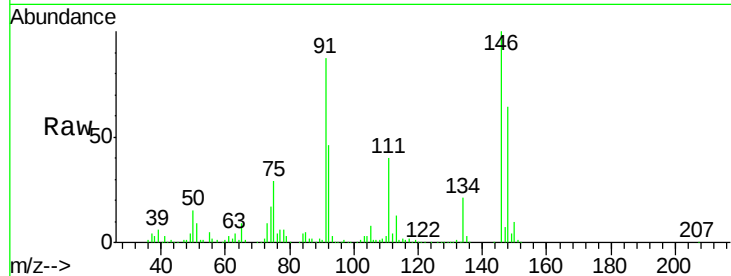
#91
 1,2-Dichlorobenzene
 Concen: 52.348 ug/l
 RT: 11.85 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.0	20.0	60.0
148	64.2	31.6	94.8

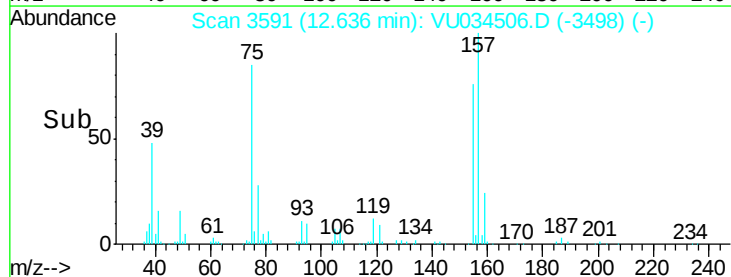
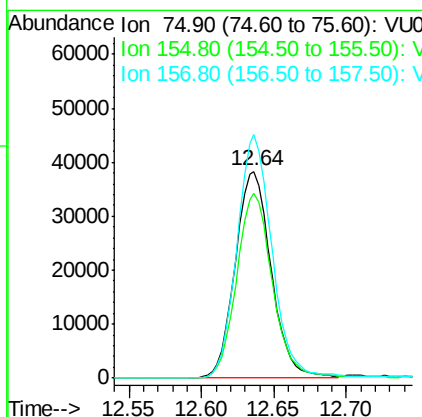
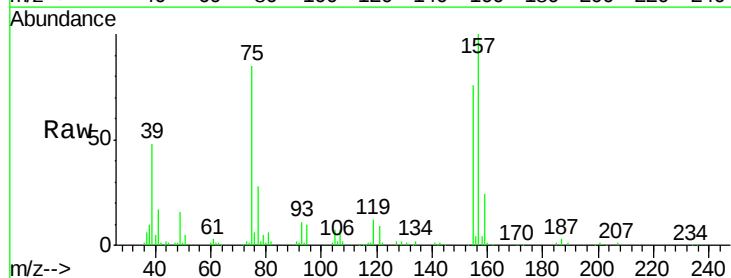
Manual Integrations
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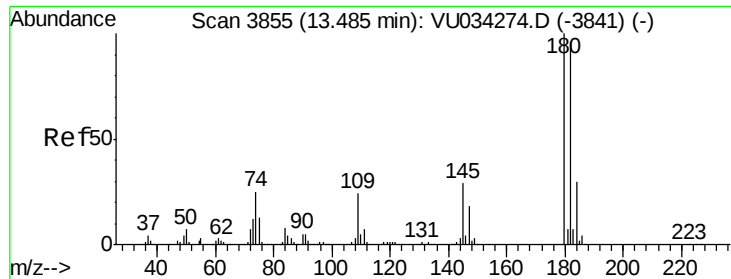
MMDadoda
 9/16/2019 11:16:27 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 54.534 ug/l
 RT: 12.64 min Scan# 3591
 Delta R.T. 0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.4	44.6	134.0
157	114.9	58.2	174.6





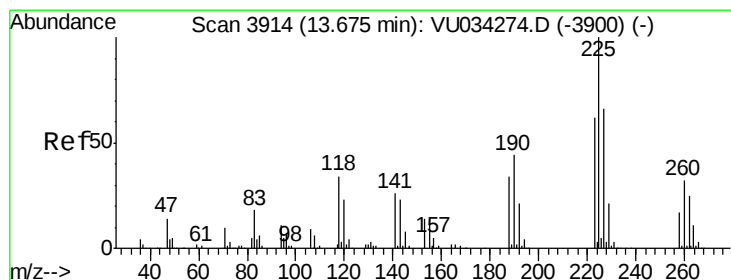
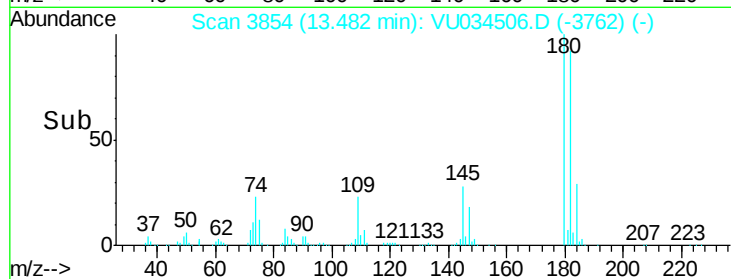
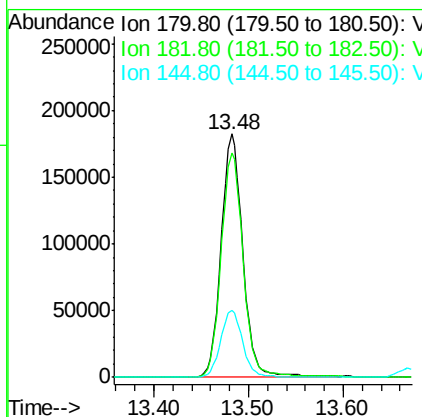
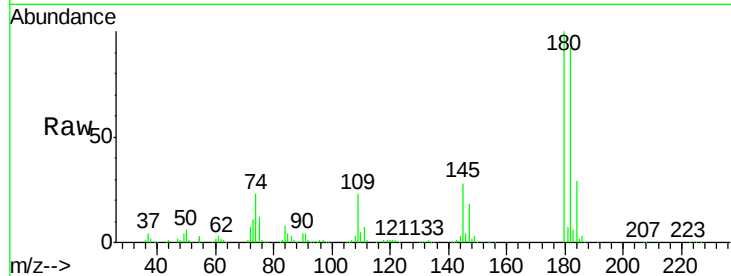
#93
 1,2,4-Trichlorobenzene
 Concen: 49.210 ug/l
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	291062		
182	93.4	47.9	143.8	
145	27.8	14.4	43.0	

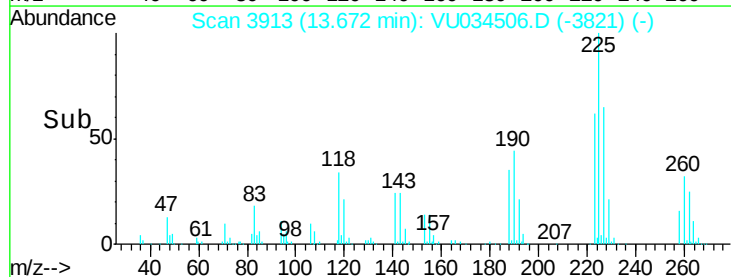
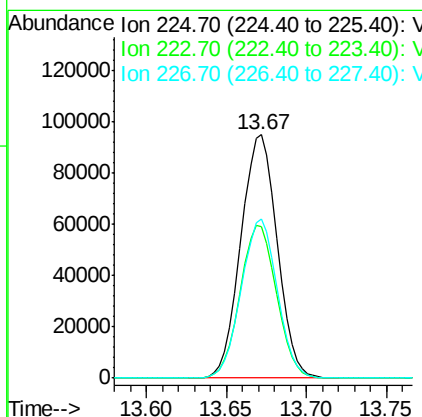
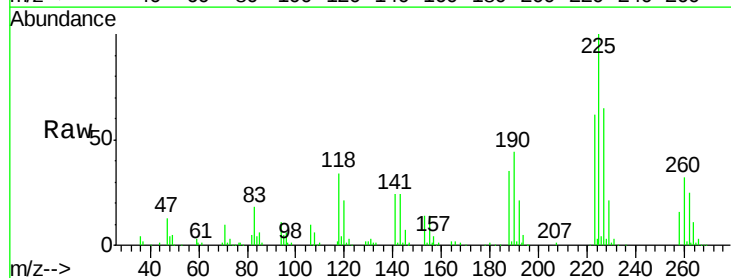
Manual Integrations
 APPROVED

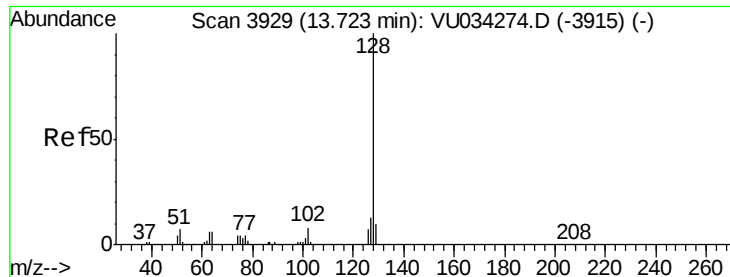
MMDadoda
 9/16/2019 11:16:27 AM



#94
 Hexachlorobutadiene
 Concen: 51.657 ug/l
 RT: 13.67 min Scan# 3913
 Delta R.T. -0.00 min
 Lab File: VU034506.D
 Acq: 12 Sep 2019 09:27

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	147535		
223	62.8	31.6	94.7	
227	64.8	32.3	96.8	





#95

Naphthalene

Concen: 44.483 ug/l

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Instrument :

MSVOA_U

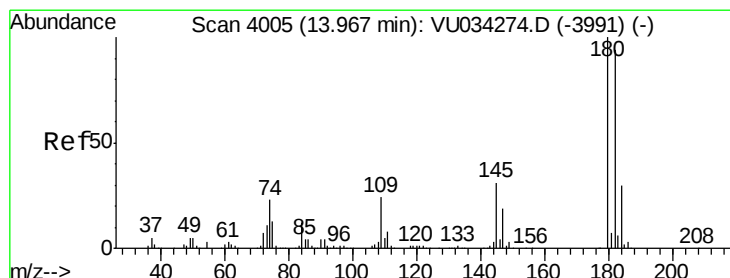
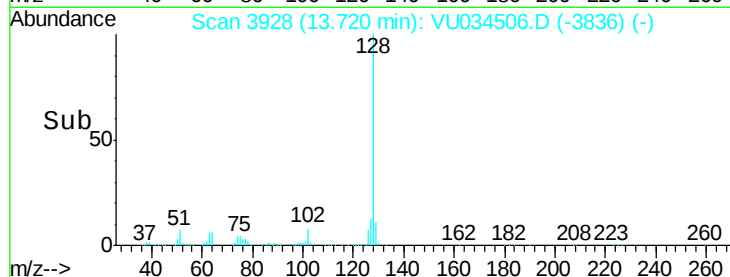
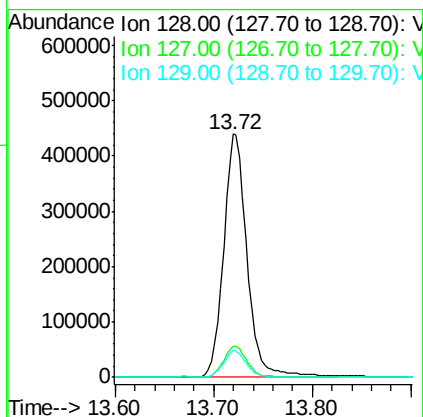
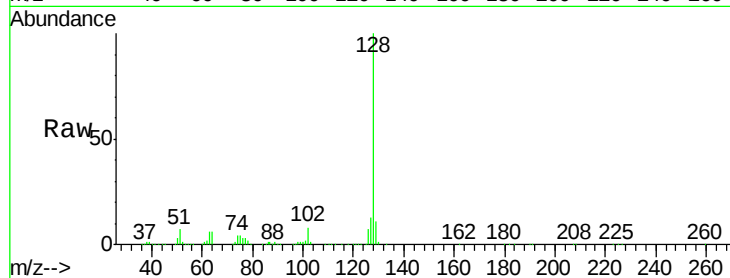
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	733860
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.6	15.8
129	10.5	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
9/16/2019 11:16:27 AM



#96

1,2,3-Trichlorobenzene

Concen: 49.093 ug/l

RT: 13.96 min Scan# 4004

Delta R.T. -0.00 min

Lab File: VU034506.D

Acq: 12 Sep 2019 09:27

Tgt Ion:	180	Resp:	280506
Ion Ratio	Lower	Upper	
180	100		
182	98.2	48.4	145.0
145	31.3	15.4	46.4

