

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091219\
 Data File : VU034525.D
 Acq On : 12 Sep 2019 17:14
 Operator : JC/SP
 Sample : VU0912WBS04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS04

Manual Integrations
 APPROVED

MMDadoda
 9/16/2019 11:17:40 AM

Quant Time: Sep 13 07:57:07 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	255589	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	370586	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	362691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	242502	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	197734	51.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.26%	
35) Dibromofluoromethane	4.86	113	177172	51.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.76%	
50) Toluene-d8	7.54	98	652609	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
62) 4-Bromofluorobenzene	10.29	95	247543	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	49140	18.383	ug/l	98
3) Chloromethane	1.32	50	58846	20.326	ug/l	99
4) Vinyl Chloride	1.40	62	60444	18.146	ug/l	100
5) Bromomethane	1.62	94	39744	21.046	ug/l	98
6) Chloroethane	1.69	64	40699	20.429	ug/l	100
7) Trichlorofluoromethane	1.88	101	89833	20.114	ug/l	96
8) Diethyl Ether	2.09	74	40498	20.614	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.28	101	61208	20.691	ug/l	98
10) Methyl Iodide	2.40	142	41678	18.062	ug/l	100
11) Tert butyl alcohol	2.81	59	96881	118.583	ug/l	97
12) 1,1-Dichloroethene	2.27	96	54207	19.493	ug/l	99
13) Acrolein	2.18	56	31328	45.623	ug/l	100
14) Allyl chloride	2.58	41	103518m	19.472	ug/l	
15) Acrylonitrile	2.92	53	223572	109.891	ug/l	99
16) Acetone	2.31	43	208764	104.318	ug/l	99
17) Carbon Disulfide	2.47	76	102864	16.458	ug/l	100
18) Methyl Acetate	2.60	43	100330	20.604	ug/l	98
19) Methyl tert-butyl Ether	2.98	73	219307	21.637	ug/l	99
20) Methylene Chloride	2.69	84	71625	21.624	ug/l	98
21) trans-1,2-Dichloroethene	2.97	96	57612	19.660	ug/l	99
22) Diisopropyl ether	3.55	45	225666	21.766	ug/l	94
23) Vinyl Acetate	3.50	43	901473	106.744	ug/l	99
24) 1,1-Dichloroethane	3.43	63	125896	20.333	ug/l	99
25) 2-Butanone	4.24	43	289278	108.288	ug/l	99
26) 2,2-Dichloropropane	4.20	77	105389	21.164	ug/l	99
27) cis-1,2-Dichloroethene	4.21	96	75665	21.260	ug/l	98
28) Bromochloromethane	4.53	49	59338	20.836	ug/l	98
29) Tetrahydrofuran	4.62	42	176061	108.309	ug/l	99
30) Chloroform	4.65	83	130632	20.757	ug/l	99
31) Cyclohexane	4.97	56	86667	19.133	ug/l	98
32) 1,1,1-Trichloroethane	4.89	97	106603	21.186	ug/l	99
36) 1,1-Dichloropropene	5.12	75	79748	19.842	ug/l	99
37) Ethyl Acetate	4.36	43	101831	21.430	ug/l	100
38) Carbon Tetrachloride	5.11	117	88744	20.680	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.40	83	80992	18.851	ug/l	98
40) Benzene	5.37	78	269041	20.746	ug/l	100
41) Methacrylonitrile	4.52	41	54609	21.575	ug/l	98
42) 1,2-Dichloroethane	5.38	62	94046	20.887	ug/l	100
43) Isopropyl Acetate	5.53	43	155228	20.941	ug/l	99
44) Trichloroethene	6.17	130	75097	20.926	ug/l	98
45) 1,2-Dichloropropane	6.41	63	79687	21.019	ug/l	100
46) Dibromomethane	6.54	93	50383	21.171	ug/l	98
47) Bromodichloromethane	6.74	83	104035	21.238	ug/l	99
48) Methyl methacrylate	6.60	41	70874	20.130	ug/l	98
49) 1,4-Dioxane	6.59	88	32781	426.387	ug/l	99
51) 4-Methyl-2-Pentanone	7.44	43	548199	106.838	ug/l	100
52) Toluene	7.62	92	170785	20.993	ug/l	99
53) t-1,3-Dichloropropene	7.86	75	105125	20.702	ug/l	99
54) cis-1,3-Dichloropropene	7.25	75	117718	21.122	ug/l	99
55) 1,1,2-Trichloroethane	8.05	97	79961	21.646	ug/l	99
56) Ethyl methacrylate	8.00	69	106814	20.938	ug/l	99
57) 1,3-Dichloropropane	8.22	76	127330	21.168	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.11	63	155945	93.288	ug/l	100
59) 2-Hexanone	8.34	43	415268	108.334	ug/l	100
60) Dibromochloromethane	8.45	129	86314	21.785	ug/l	99
61) 1,2-Dibromoethane	8.57	107	75944	21.005	ug/l	98
64) Tetrachloroethene	8.21	164	66049	20.991	ug/l	98
65) Chlorobenzene	9.10	112	197924	21.510	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.19	131	76866	21.889	ug/l	100
67) Ethyl Benzene	9.23	91	315168	20.948	ug/l	99
68) m/p-Xylenes	9.35	106	243907	43.052	ug/l	99
69) o-Xylene	9.76	106	120685	21.782	ug/l	100
70) Styrene	9.77	104	214334	22.064	ug/l	99
71) Bromoform	9.94	173	66139	21.732	ug/l #	99
73) Isopropylbenzene	10.14	105	332259	21.054	ug/l	100
74) N-amyl acetate	9.99	43	133613	21.033	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.43	83	134563	21.065	ug/l	98
76) 1,2,3-Trichloropropane	10.47	75	114205m	21.575	ug/l	
77) Bromobenzene	10.43	156	92694	21.006	ug/l	98
78) n-propylbenzene	10.57	91	382691	20.997	ug/l	100
79) 2-Chlorotoluene	10.64	91	234401	21.078	ug/l	100
80) 1,3,5-Trimethylbenzene	10.75	105	286633	21.717	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.49	75	31420m	19.961	ug/l	
82) 4-Chlorotoluene	10.75	91	267483	20.901	ug/l	98
83) tert-Butylbenzene	11.08	119	272631	20.648	ug/l	99
84) 1,2,4-Trimethylbenzene	11.12	105	286471	21.562	ug/l	100
85) sec-Butylbenzene	11.30	105	331610	21.274	ug/l	100
86) p-Isopropyltoluene	11.45	119	306523	21.305	ug/l	100
87) 1,3-Dichlorobenzene	11.40	146	167356	20.784	ug/l	99
88) 1,4-Dichlorobenzene	11.49	146	172368	20.523	ug/l	99
89) n-Butylbenzene	11.87	91	255596	20.443	ug/l	99
90) Hexachloroethane	12.12	117	47830	20.779	ug/l	99
91) 1,2-Dichlorobenzene	11.85	146	166504	21.040	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.64	75	25111	21.392	ug/l	97

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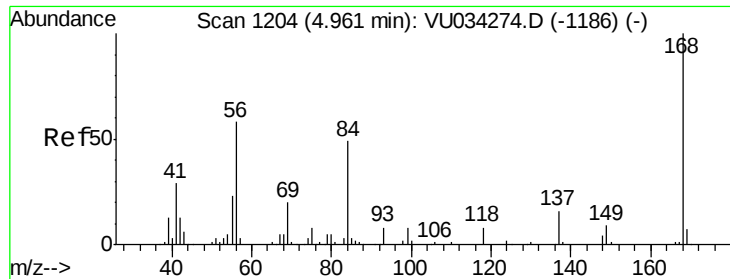
Manual Integrations
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MMDadoda
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QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.48	180	101191	19.866	ug/l	99
94) Hexachlorobutadiene	13.67	225	52188	18.853	ug/l	99
95) Naphthalene	13.72	128	263263	18.963	ug/l	99
96) 1,2,3-Trichlorobenzene	13.97	180	102073	20.080	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: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion:168 Resp: 255589

Ion Ratio Lower Upper

168 100

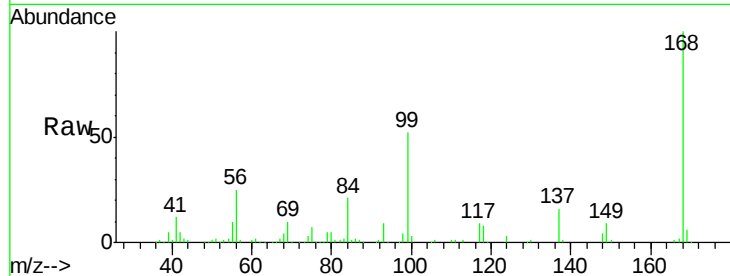
99 51.6 41.6 62.4

Manual Integrations

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9/16/2019 11:17:40 AM



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

120000

100000

80000

60000

40000

20000

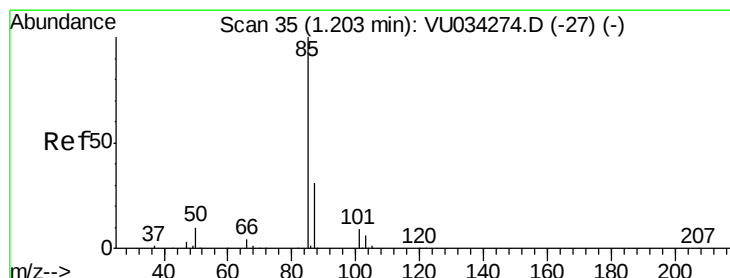
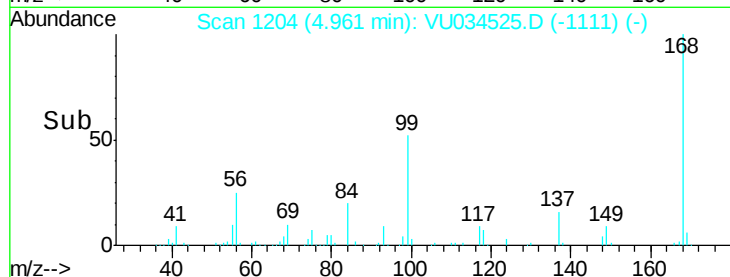
0

4.90

5.00

5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 18.383 ug/l

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU034525.D

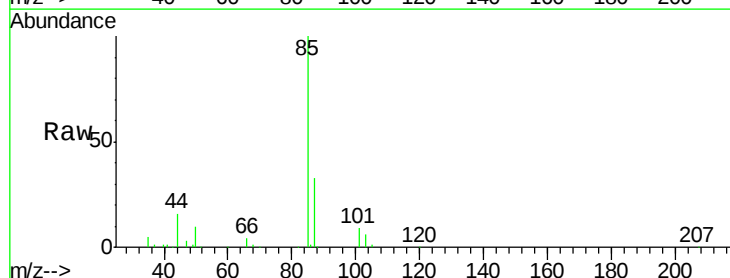
Acq: 12 Sep 2019 17:14

Tgt Ion: 85 Resp: 49140

Ion Ratio Lower Upper

85 100

87 32.7 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

60000

50000

40000

30000

20000

10000

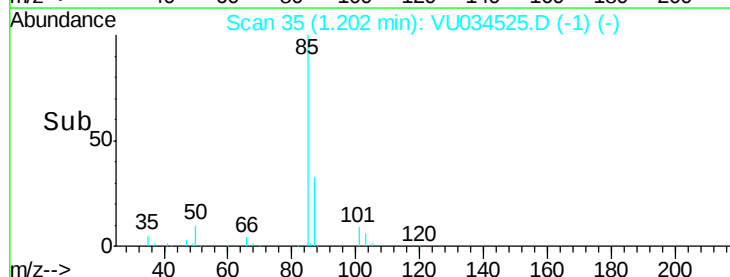
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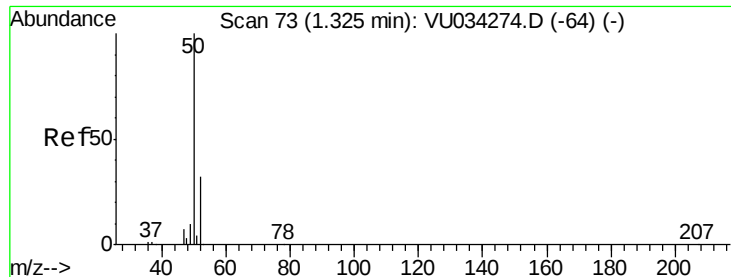
1.15

1.20

1.25

Time-->





#3

Chloromethane

Concen: 20.326 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion: 50 Resp: 58846

Ion Ratio Lower Upper

50 100

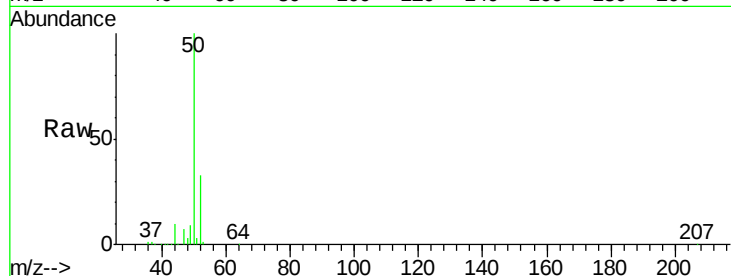
52 32.5 25.8 38.6

Manual Integrations

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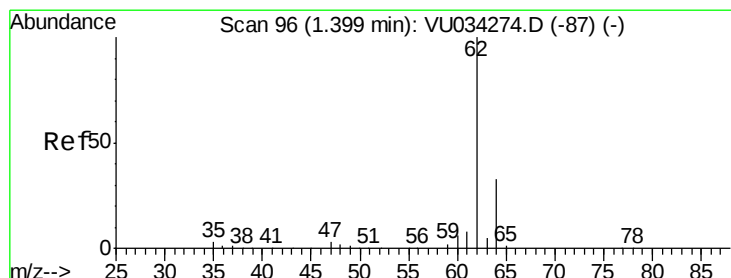
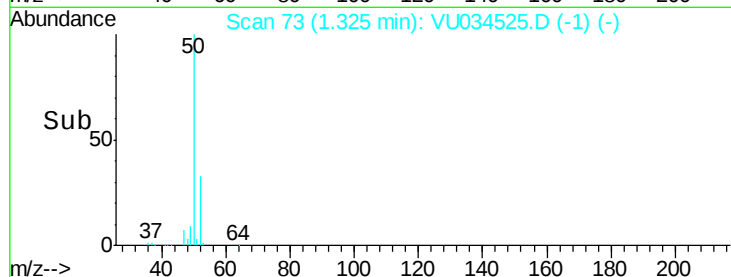
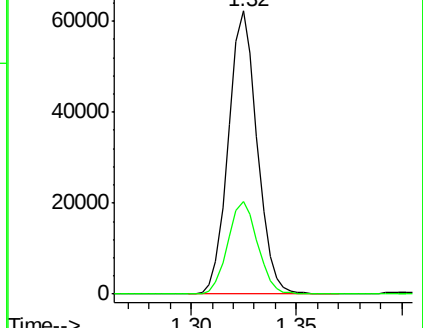
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Abundance Ion 49.90 (49.60 to 50.60): VU034525.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034525.D (-1) (-)



#4

Vinyl Chloride

Concen: 18.146 ug/l

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU034525.D

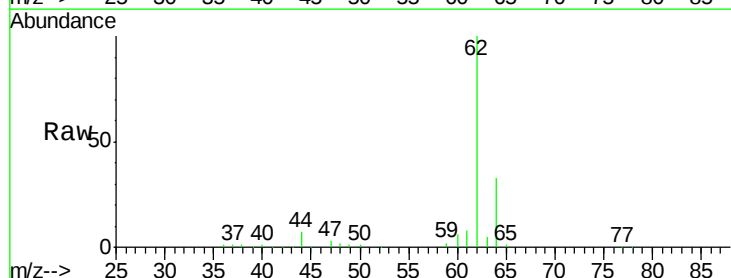
Acq: 12 Sep 2019 17:14

Tgt Ion: 62 Resp: 60444

Ion Ratio Lower Upper

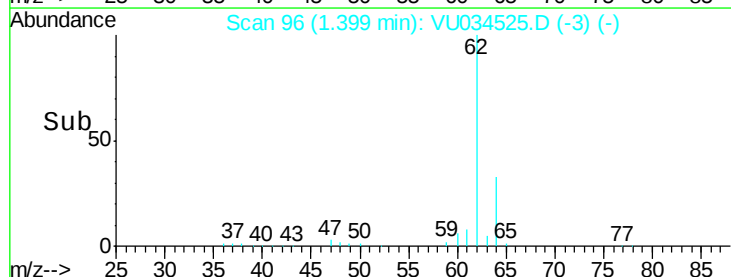
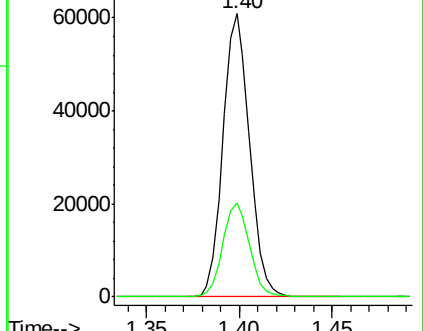
62 100

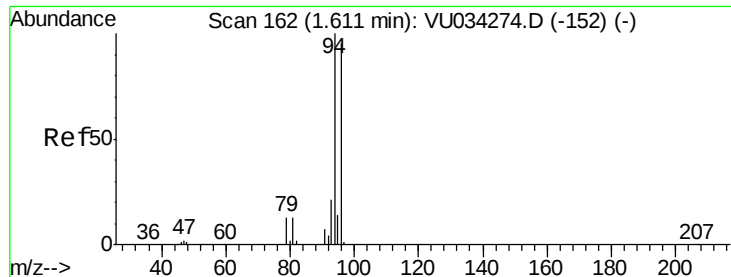
64 32.8 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VU034525.D (-3) (-)

Ion 63.90 (63.60 to 64.60): VU034525.D (-3) (-)





#5

Bromomethane

Concen: 21.046 ug/l

RT: 1.62 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion: 94 Resp: 39744

Ion Ratio Lower Upper

94 100

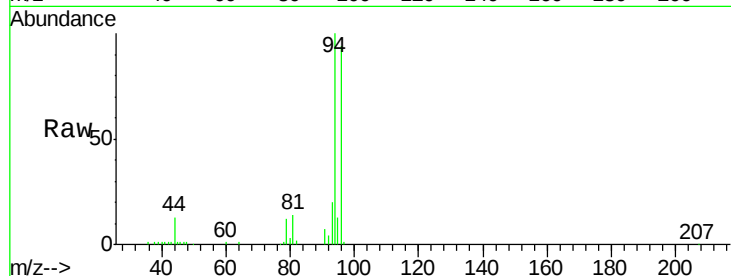
96 93.1 75.7 113.5

Manual Integrations

APPROVED

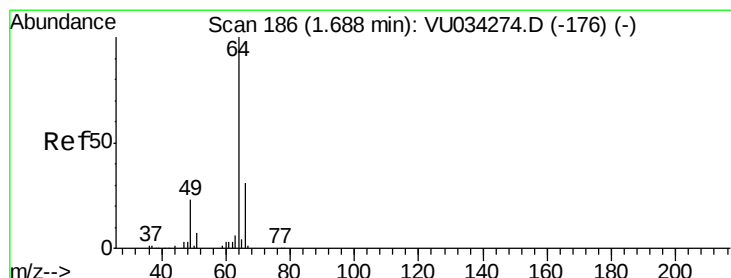
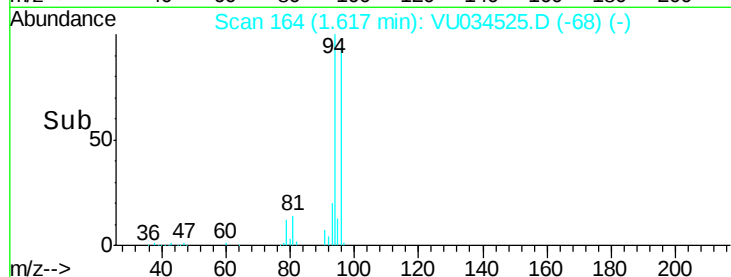
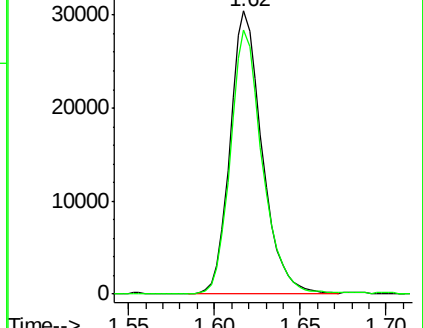
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Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 20.429 ug/l

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034525.D

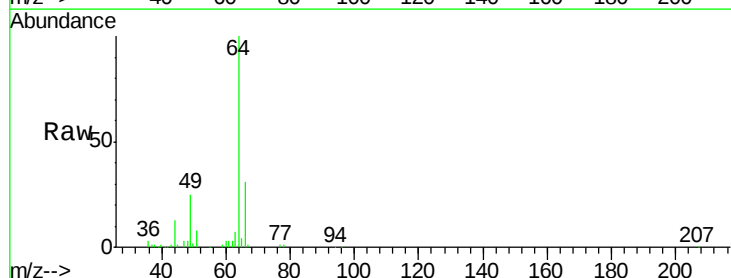
Acq: 12 Sep 2019 17:14

Tgt Ion: 64 Resp: 40699

Ion Ratio Lower Upper

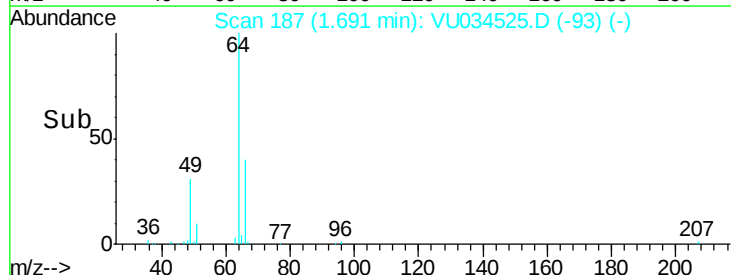
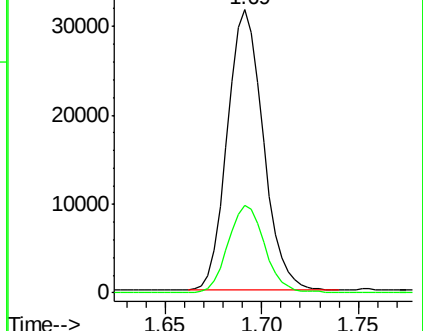
64 100

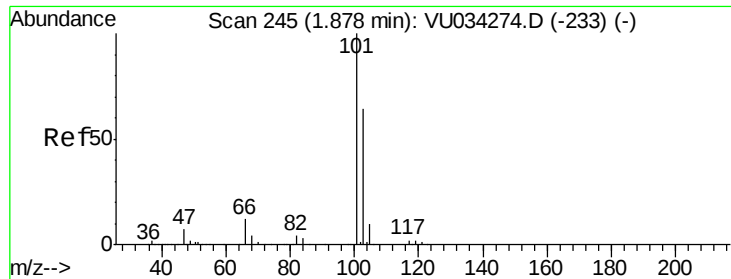
66 31.2 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

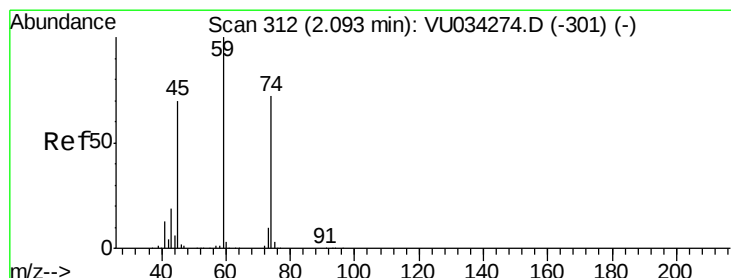
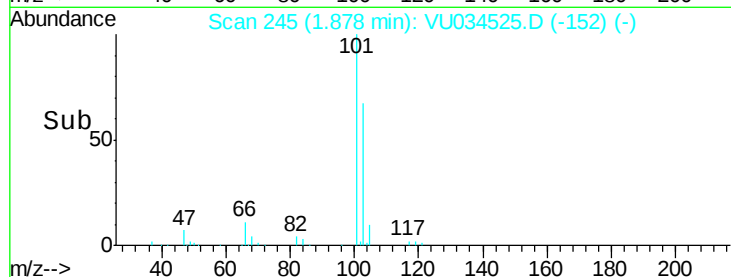
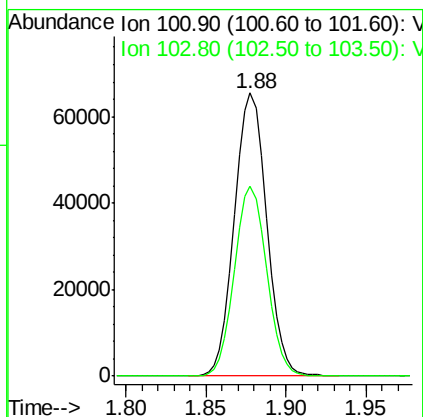
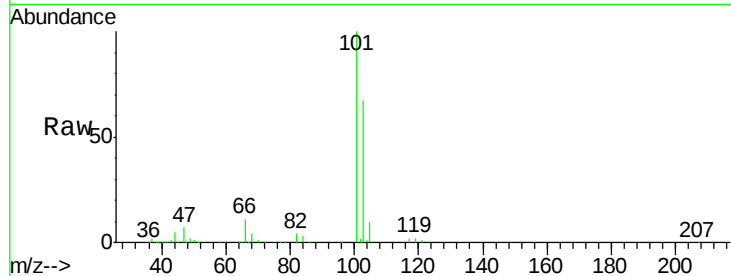
Trichlorofluoromethane
 Concen: 20.114 ug/l
 RT: 1.88 min Scan# 245
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Instrument :
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 VU0912WBS04

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.1	51.0	76.6

Manual Integrations
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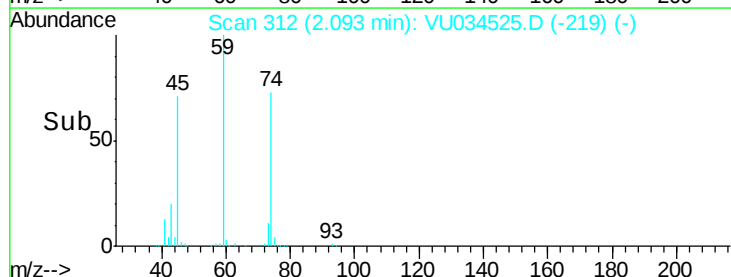
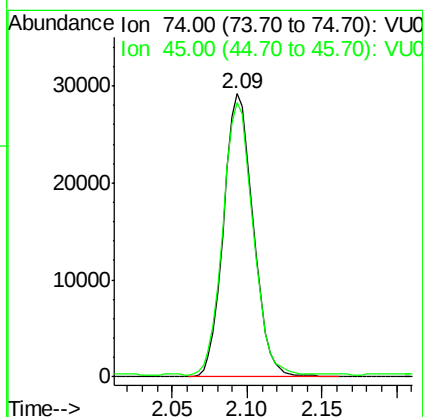
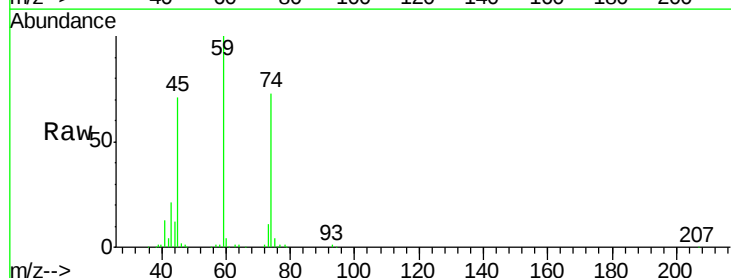
MMDadoda
 9/16/2019 11:17:40 AM

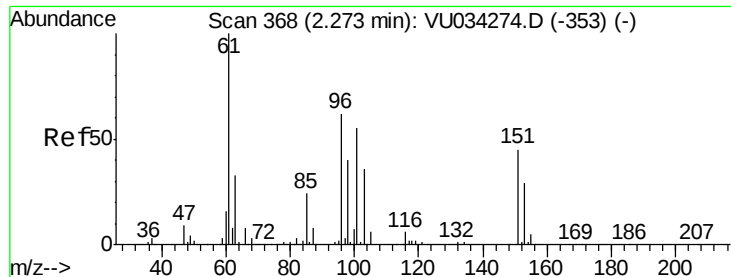


#8

Diethyl Ether
 Concen: 20.614 ug/l
 RT: 2.09 min Scan# 312
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.5	48.2	144.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.691 ug/l

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

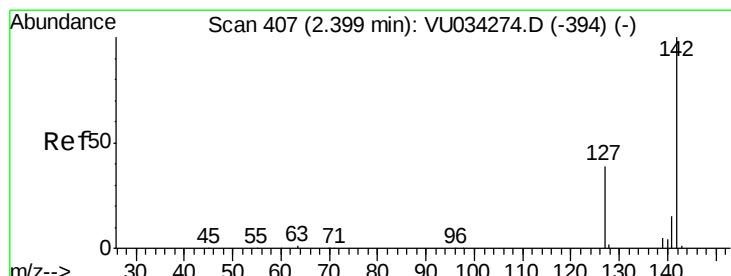
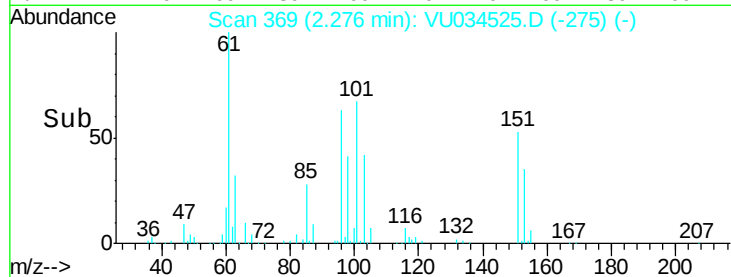
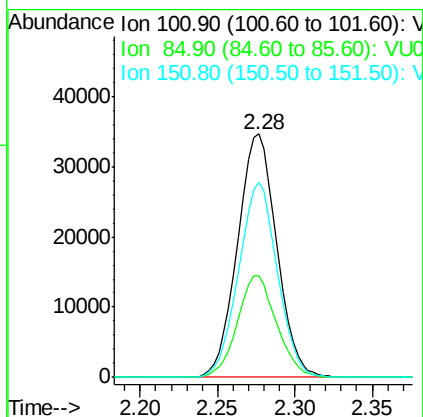
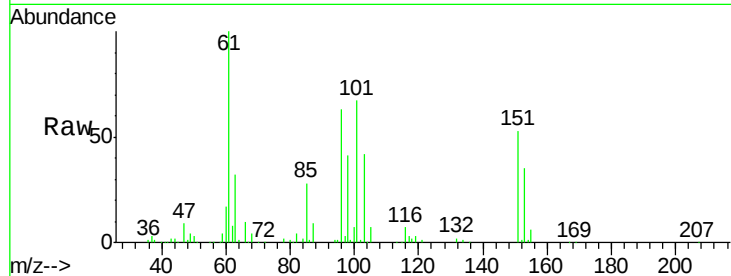
ClientSampleId :

VU0912WBS04

Tot Ion:	101	Resp:	61208
Ion Ratio	Lower	Upper	
101	100		
85	41.5	34.4	51.6
151	79.1	64.4	96.6

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#10

Methyl Iodide

Concen: 18.062 ug/l

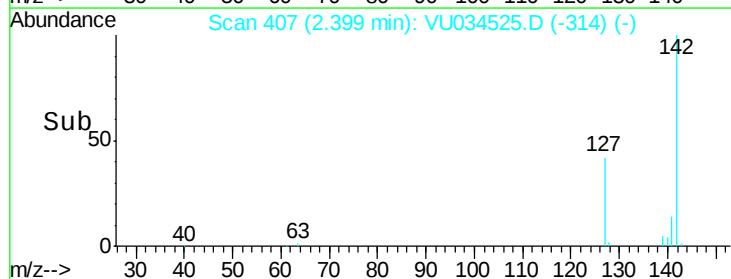
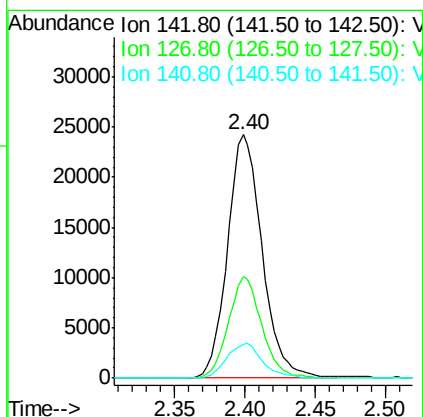
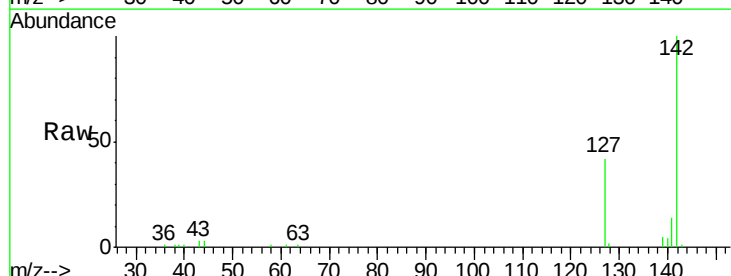
RT: 2.40 min Scan# 407

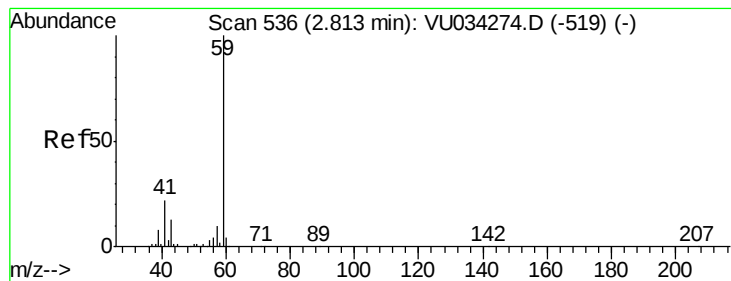
Delta R.T. 0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Tgt Ion:	142	Resp:	41678
Ion Ratio	Lower	Upper	
142	100		
127	40.0	32.1	48.1
141	14.4	11.5	17.3





#11

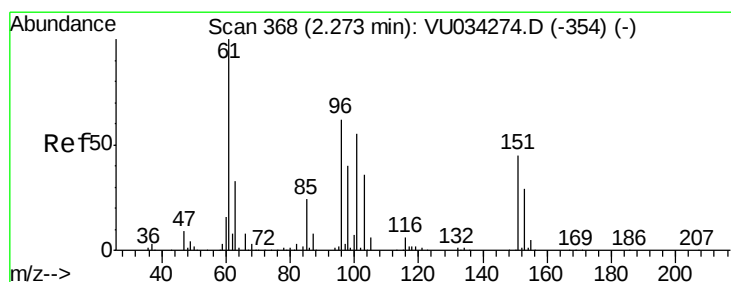
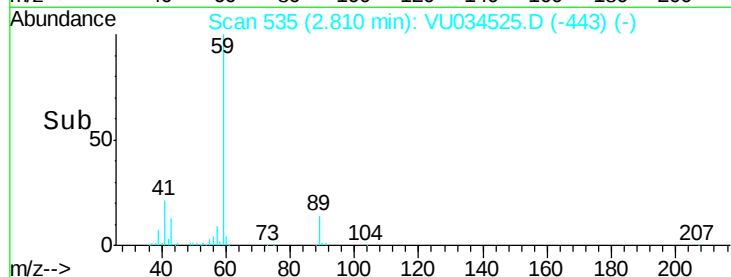
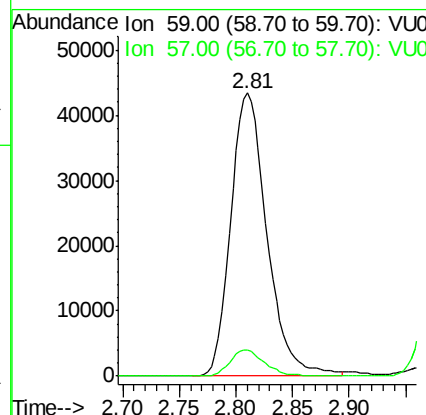
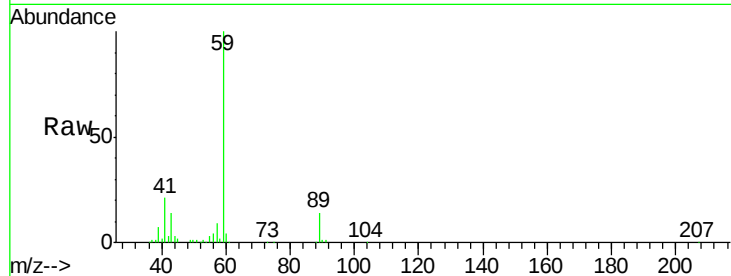
Tert butyl alcohol
 Concen: 118.583 ug/l
 RT: 2.81 min Scan# 535
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Instrument :
 MSVOA_U
 ClientSampleID :
 VU0912WBS04

Tot Ion	Ratio	Resp	Lower	Upper
59	100	96881		
57	8.9		7.9	11.9

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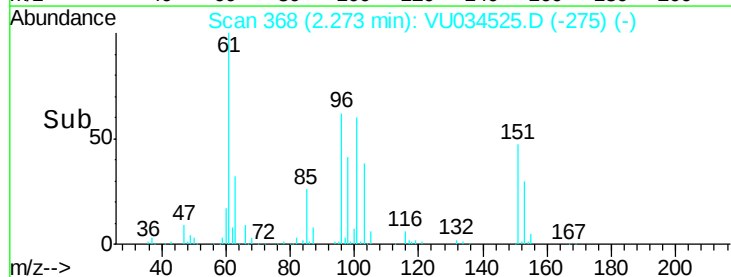
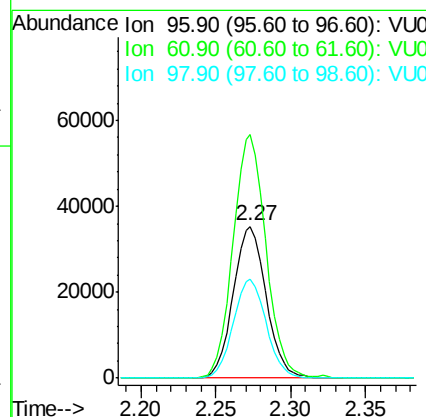
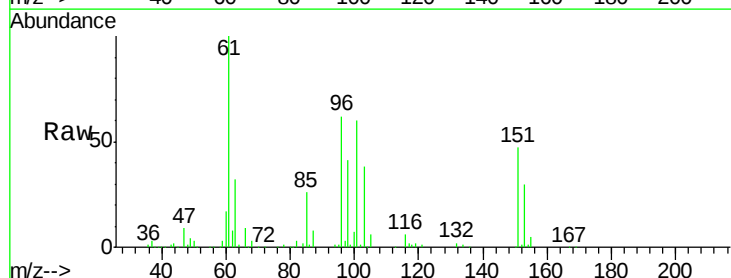
MMDadoda
 9/16/2019 11:17:40 AM

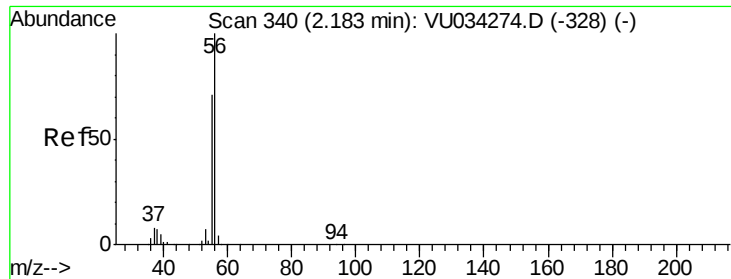


#12

1,1-Dichloroethene
 Concen: 19.493 ug/l
 RT: 2.27 min Scan# 368
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	54207		
61	160.3		130.0	195.0
98	65.1		52.2	78.4





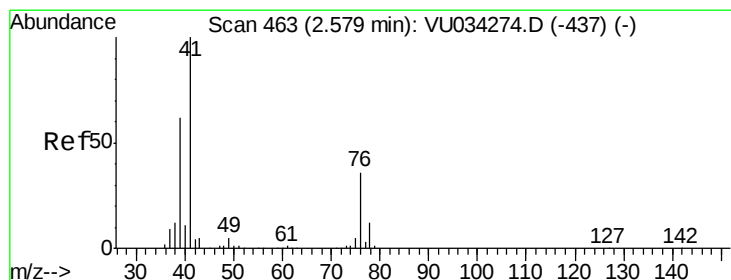
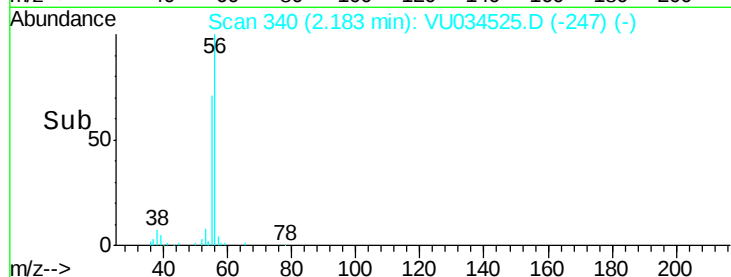
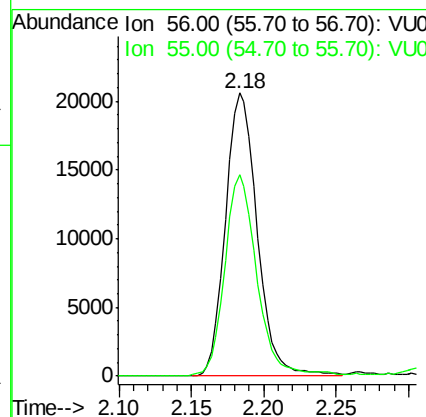
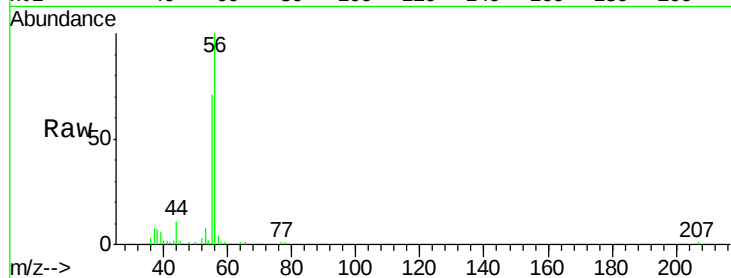
#13
Acrolein
Concen: 45.623 ug/l
RT: 2.18 min Scan# 340
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	56	Resp	31328
Ion Ratio	100	Lower	Upper
55	72.0	57.4	86.2

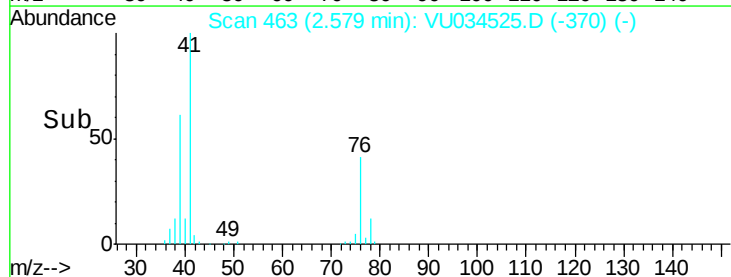
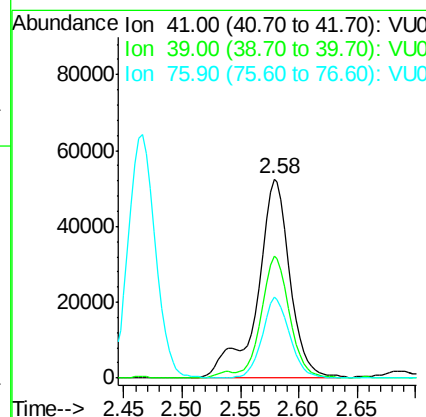
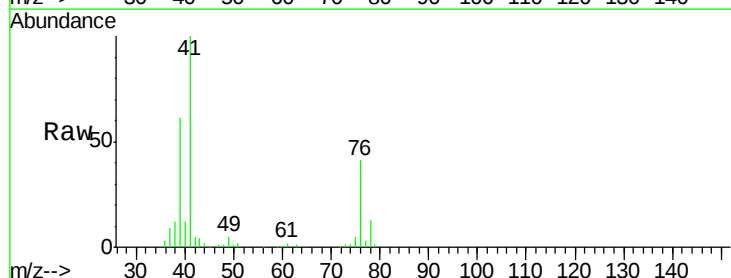
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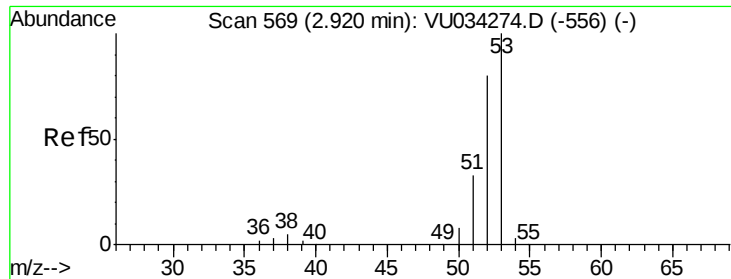
MMDadoda
9/16/2019 11:17:40 AM



#14
Allyl chloride
Concen: 19.472 ug/l m
RT: 2.58 min Scan# 463
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	41	Resp	103518
Ion Ratio	100	Lower	Upper
39	52.4	43.5	65.3
76	34.4	27.0	40.6





#15

Acrylonitrile

Concen: 109.891 ug/l

RT: 2.92 min Scan# 569

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion: 53 Resp: 223572

Ion Ratio Lower Upper

53 100

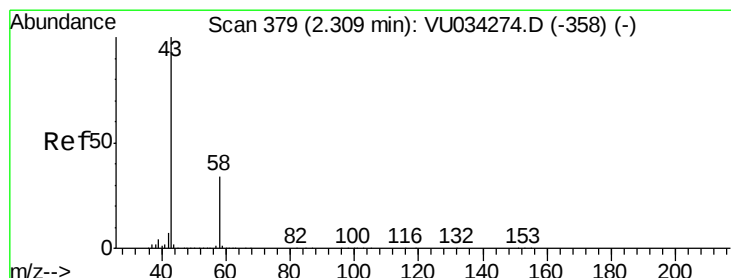
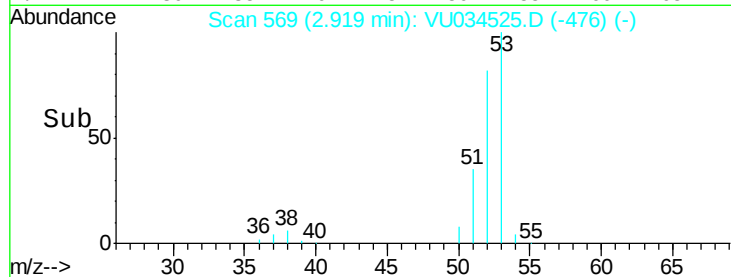
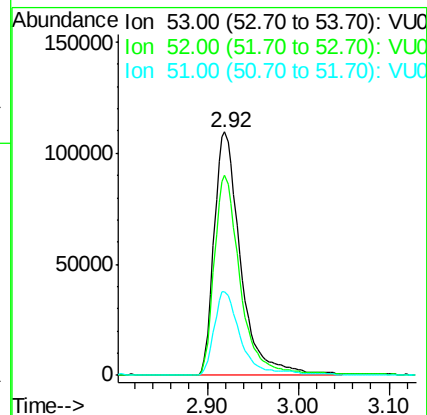
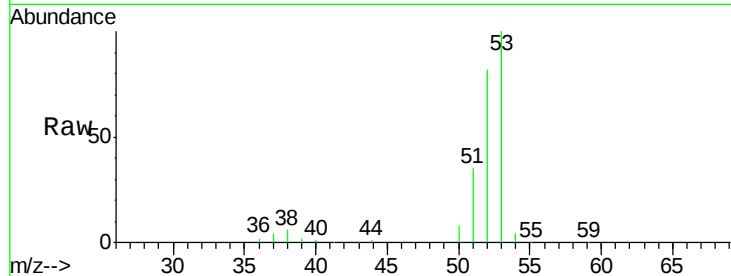
52 81.0 64.1 96.1

51 35.0 27.4 41.0

Manual Integrations
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#16

Acetone

Concen: 104.318 ug/l

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VU034525.D

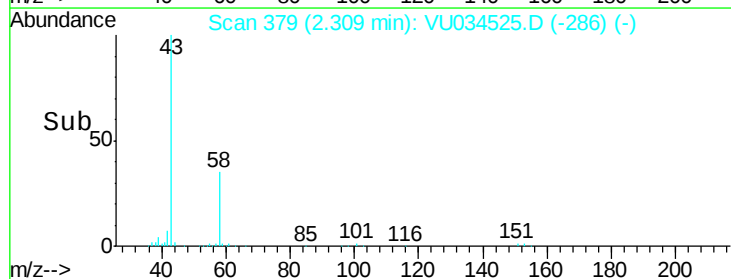
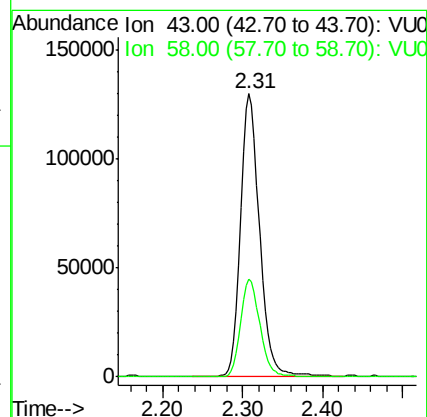
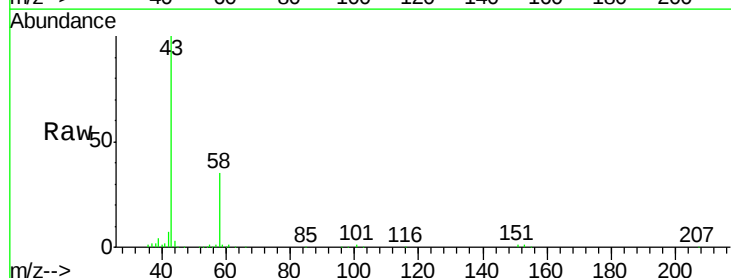
Acq: 12 Sep 2019 17:14

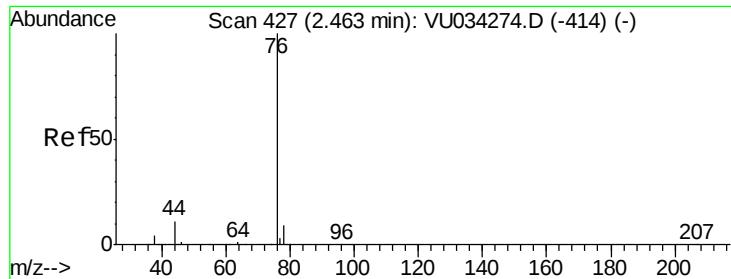
Tgt Ion: 43 Resp: 208764

Ion Ratio Lower Upper

43 100

58 34.8 27.6 41.4





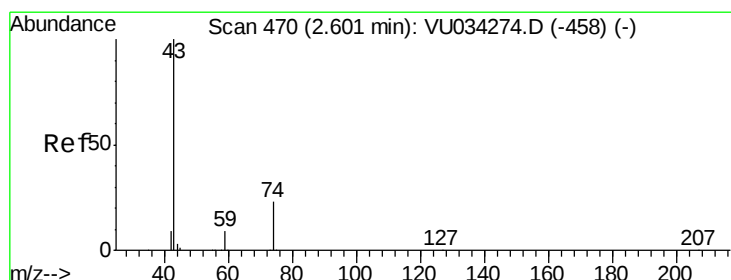
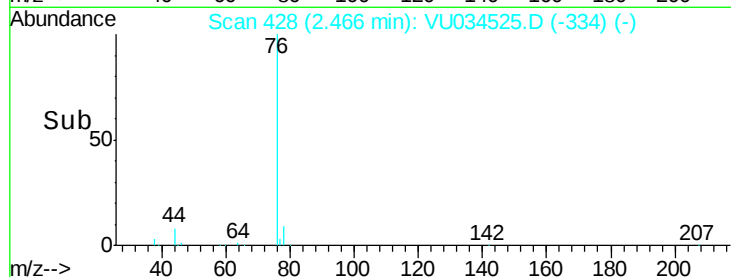
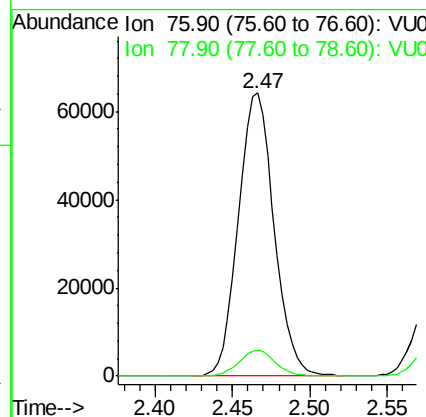
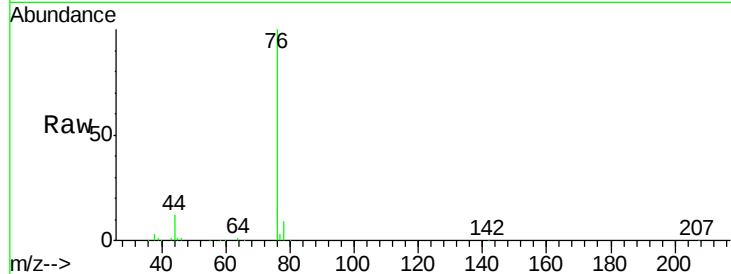
#17
Carbon Disulfide
Concen: 16.458 ug/l
RT: 2.47 min Scan# 428
Delta R.T. 0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

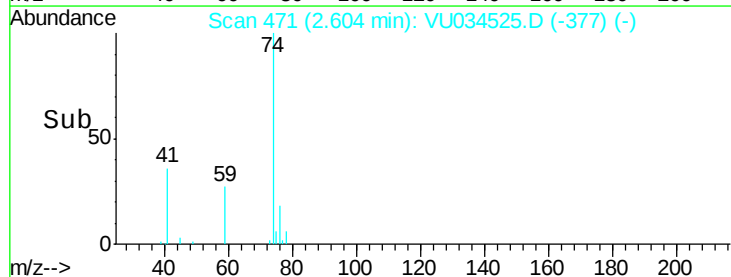
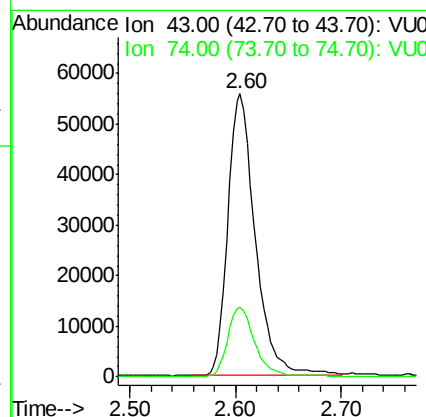
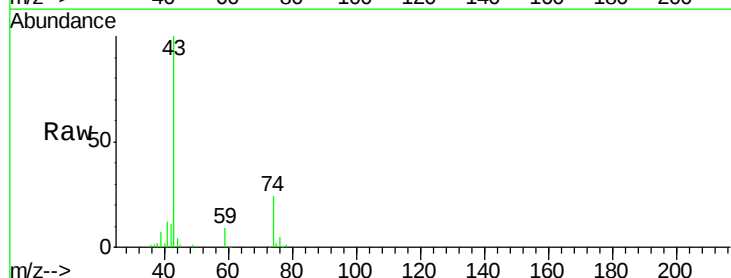
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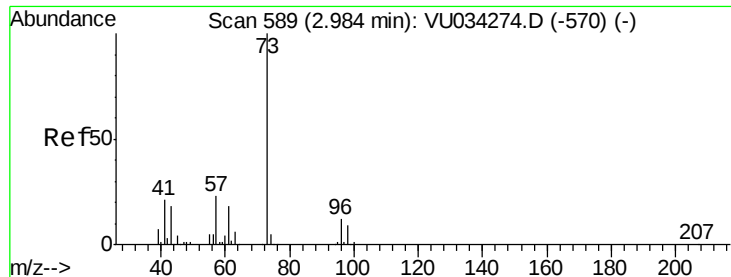
MMDadoda
9/16/2019 11:17:40 AM



#18
Methyl Acetate
Concen: 20.604 ug/l
RT: 2.60 min Scan# 471
Delta R.T. 0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.6	18.9	28.3





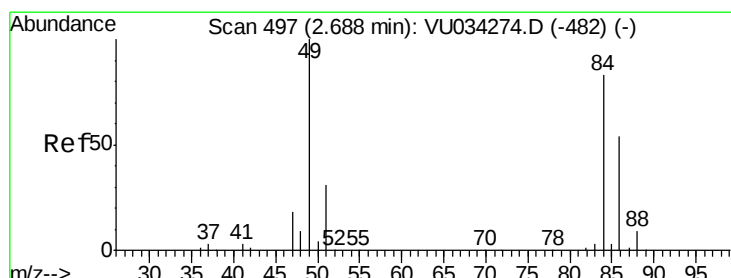
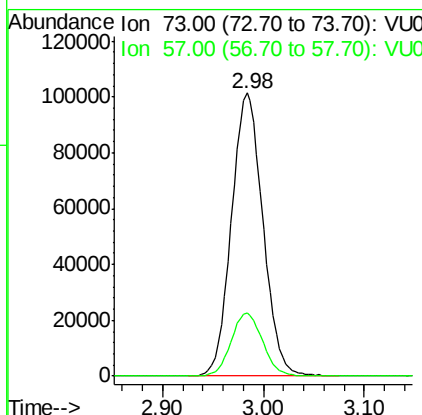
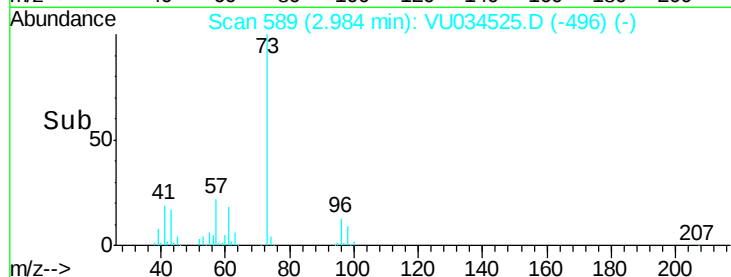
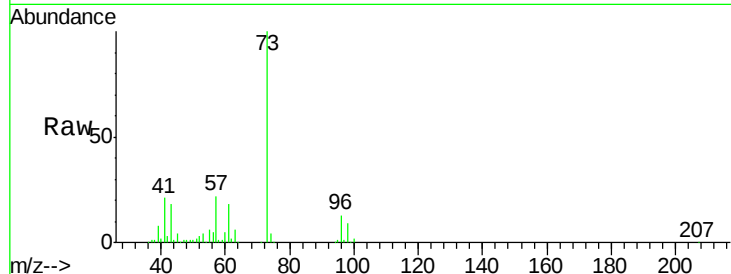
#19
Methvl tert-butvl Ether
Concen: 21.637 ug/l
RT: 2.98 min Scan# 589
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion: 73 Resp: 219307
Ion Ratio Lower Upper
73 100
57 22.4 18.2 27.4

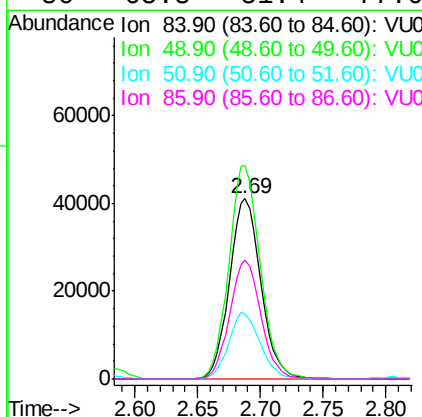
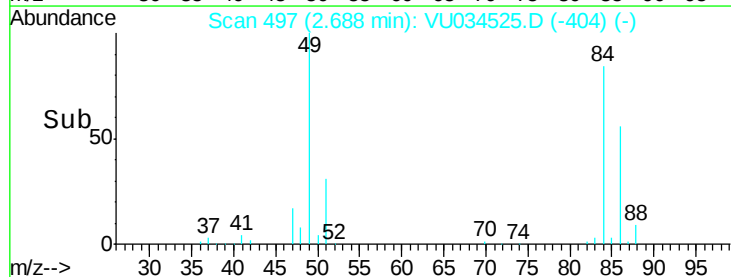
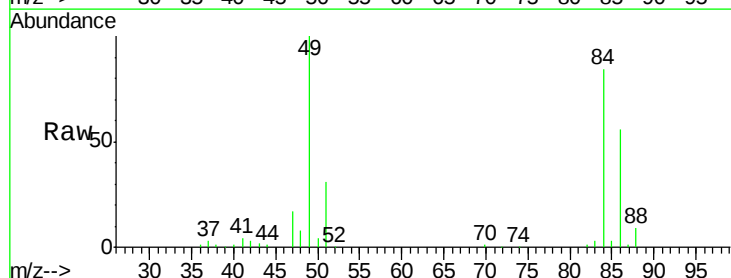
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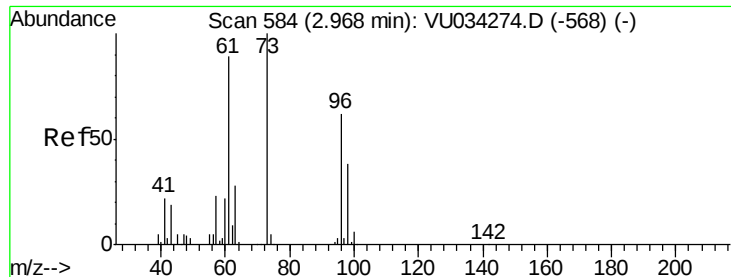
MMDadoda
9/16/2019 11:17:40 AM



#20
Methylene Chloride
Concen: 21.624 ug/l
RT: 2.69 min Scan# 497
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion: 84 Resp: 71625
Ion Ratio Lower Upper
84 100
49 118.5 96.0 144.0
51 36.2 30.0 45.0
86 65.8 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 19.660 ug/l

RT: 2.97 min Scan# 584

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

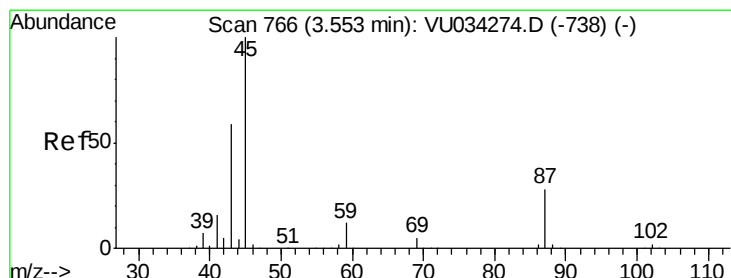
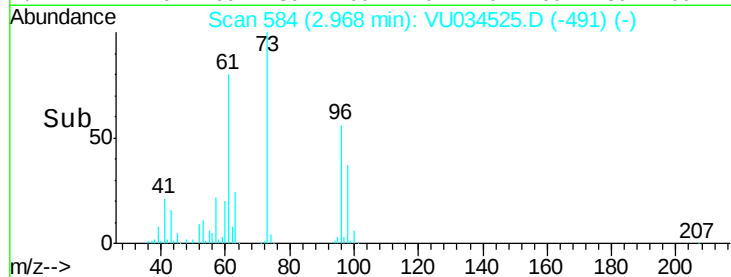
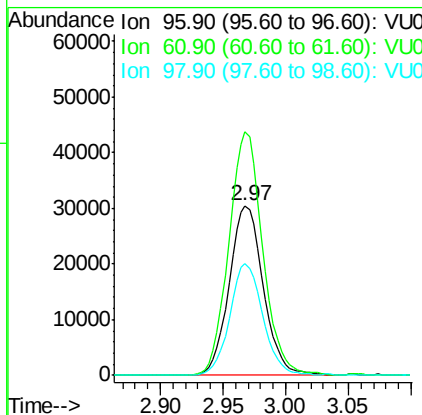
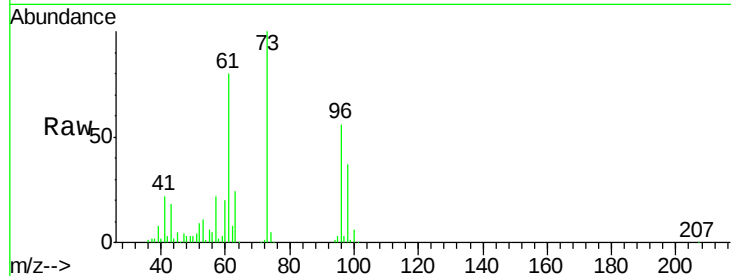
ClientSampleId :

VU0912WBS04

Tot Ion:	96	Resp:	57612
Ion	Ratio	Lower	Upper
96	100		
61	143.7	114.8	172.2
98	65.8	49.8	74.8

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#22

Diisopropyl ether

Concen: 21.766 ug/l

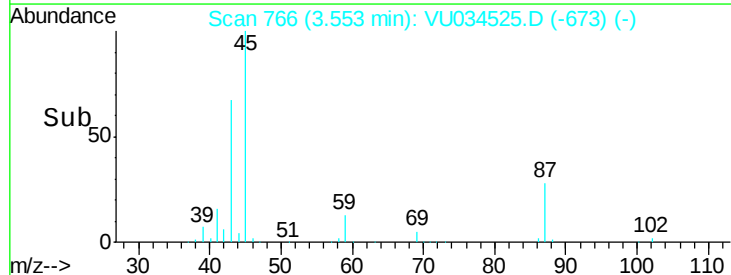
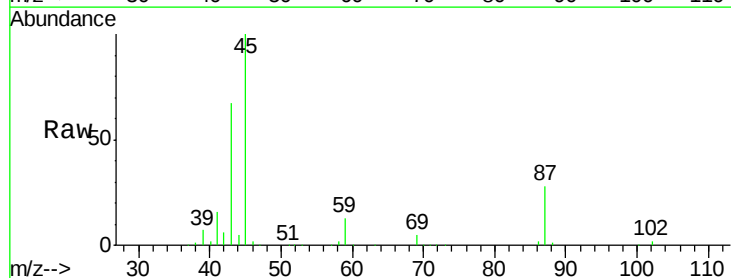
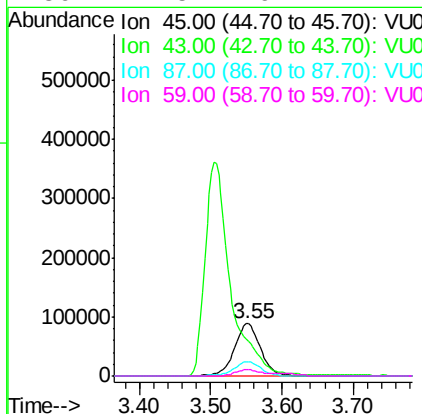
RT: 3.55 min Scan# 766

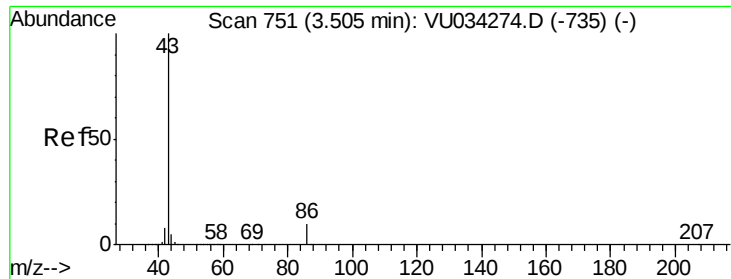
Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Tgt Ion:	45	Resp:	225666
Ion	Ratio	Lower	Upper
45	100		
43	66.4	47.5	71.3
87	27.5	22.2	33.4
59	12.5	9.4	14.2





#23

Vinyl Acetate

Concen: 106.744 ug/l

RT: 3.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion: 43 Resp: 901473

Ion Ratio Lower Upper

43 100

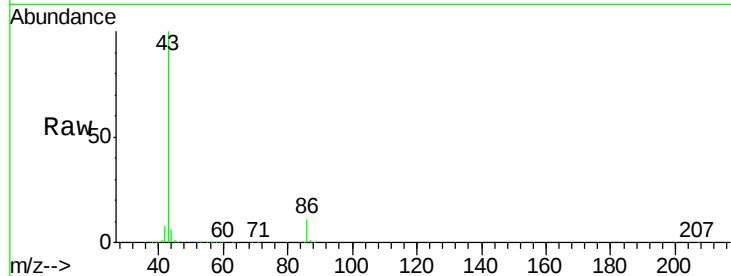
86 10.7 8.3 12.5

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU034525.D (-658) (-)

Ion 86.00 (85.70 to 86.70): VU034525.D (-658) (-)

3.50

400000

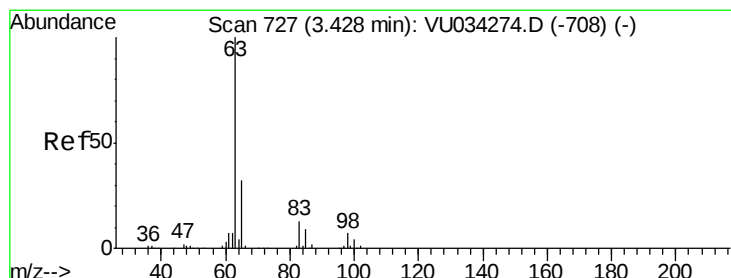
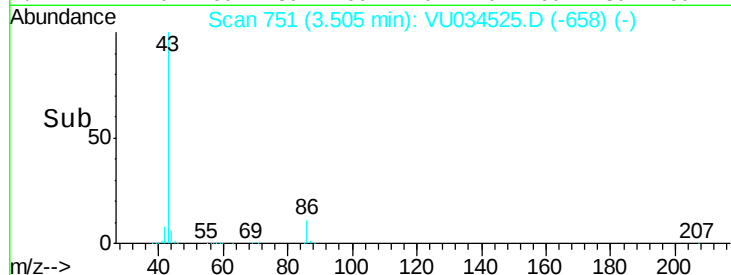
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 20.333 ug/l

RT: 3.43 min Scan# 727

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

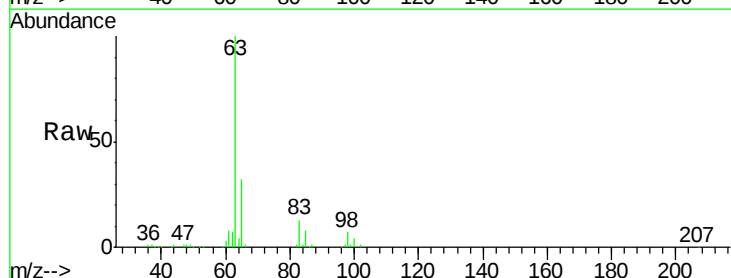
Tgt Ion: 63 Resp: 125896

Ion Ratio Lower Upper

63 100

98 7.1 3.5 10.4

100 4.1 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VU034525.D (-634) (-)

Ion 97.90 (97.60 to 98.60): VU034525.D (-634) (-)

Ion 99.90 (99.60 to 100.60): VU034525.D (-634) (-)

3.43

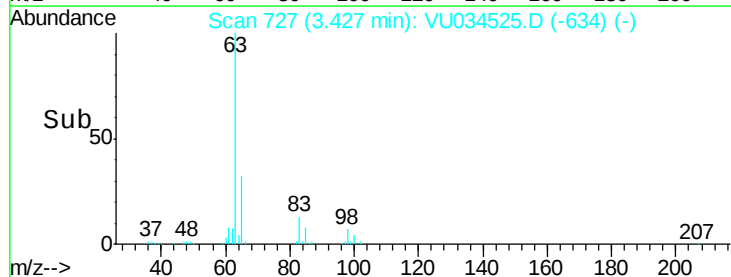
60000

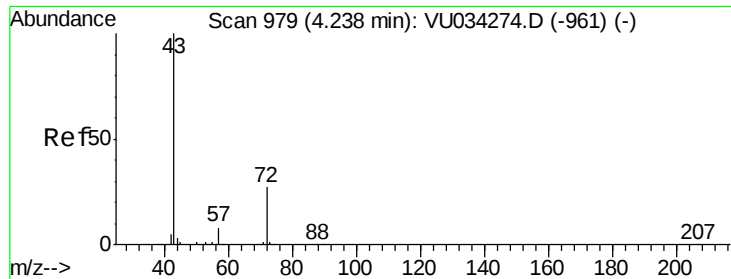
40000

20000

0

Time-->





#25

2-Butanone

Concen: 108.288 ug/l

RT: 4.24 min Scan# 979

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion: 43 Resp: 289278

Ion Ratio Lower Upper

43 100

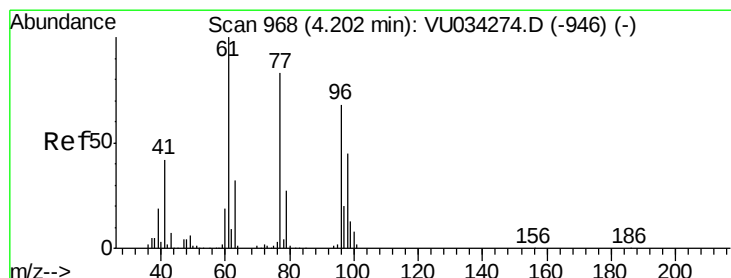
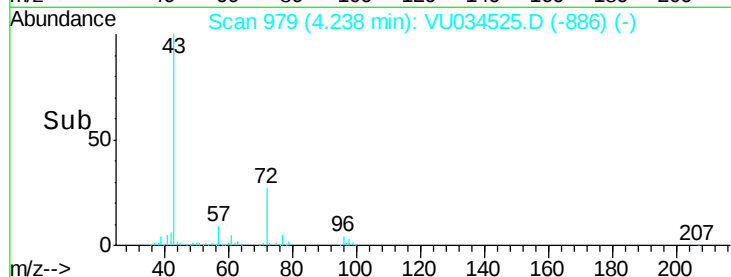
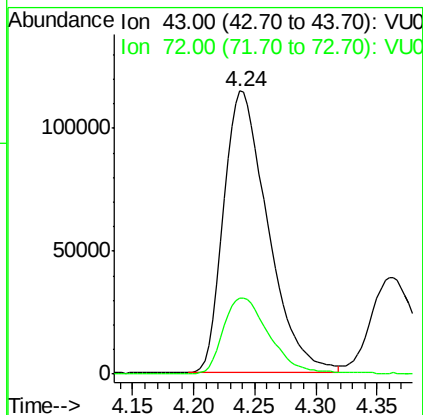
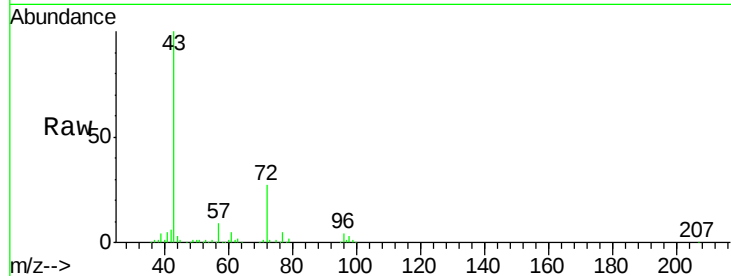
72 26.7 21.8 32.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 21.164 ug/l

RT: 4.20 min Scan# 968

Delta R.T. -0.00 min

Lab File: VU034525.D

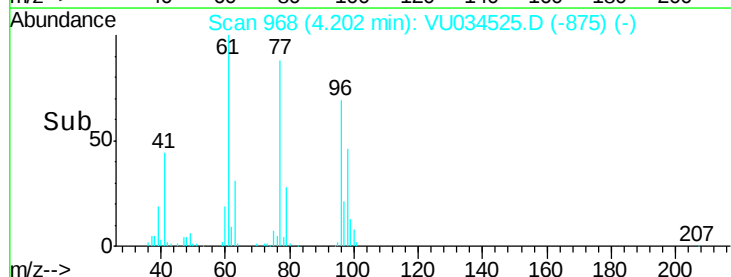
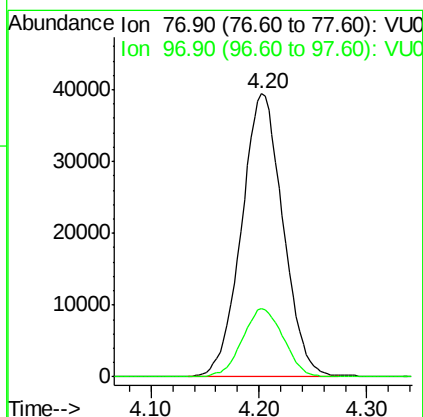
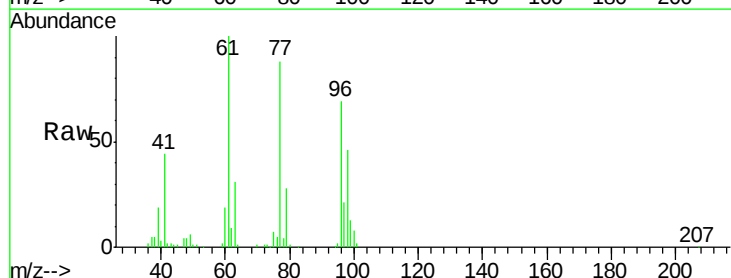
Acq: 12 Sep 2019 17:14

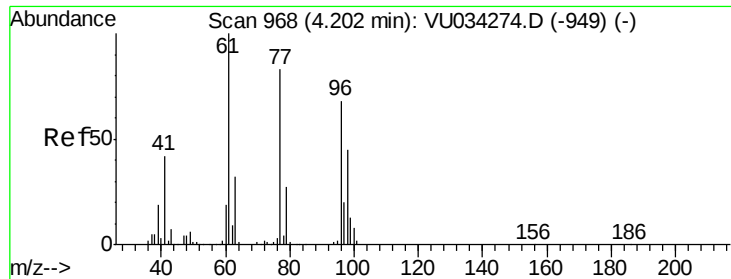
Tgt Ion: 77 Resp: 105389

Ion Ratio Lower Upper

77 100

97 23.8 11.8 35.3





#27

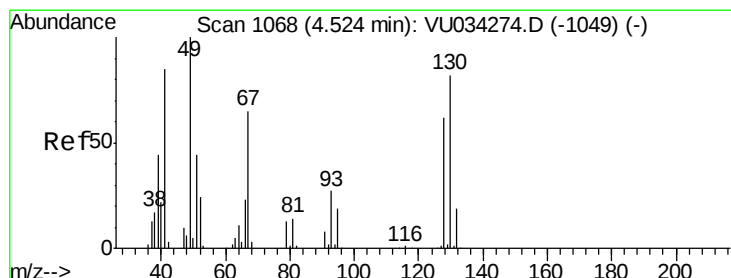
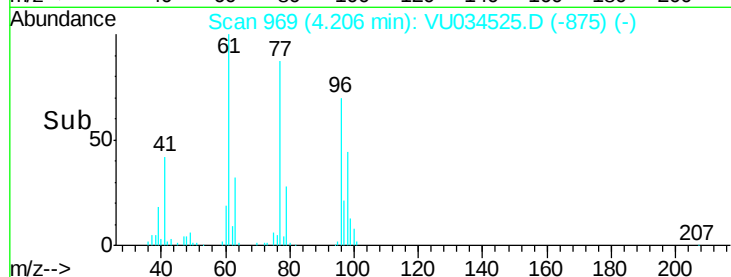
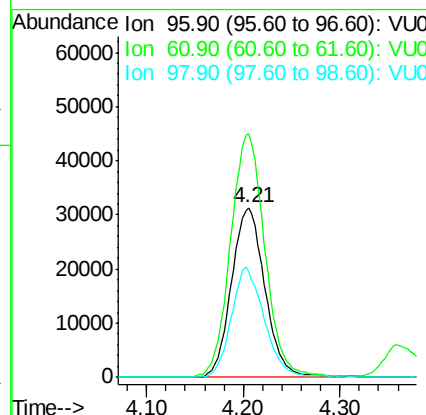
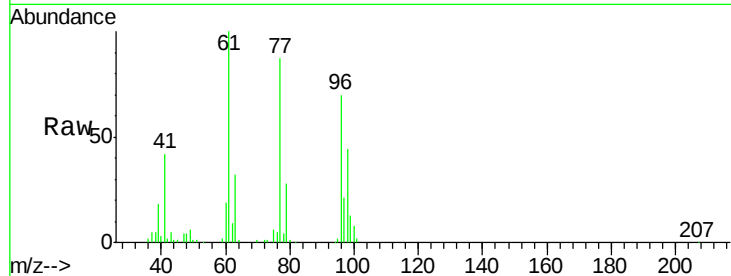
cis-1,2-Dichloroethene
Concen: 21.260 ug/l
RT: 4.21 min Scan# 969
Delta R.T. 0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	146.8	0.0	297.4	
98	63.4	0.0	130.0	

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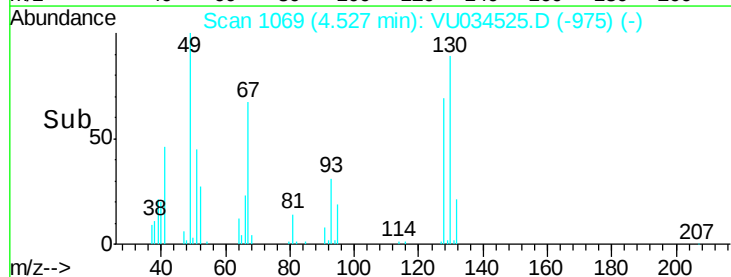
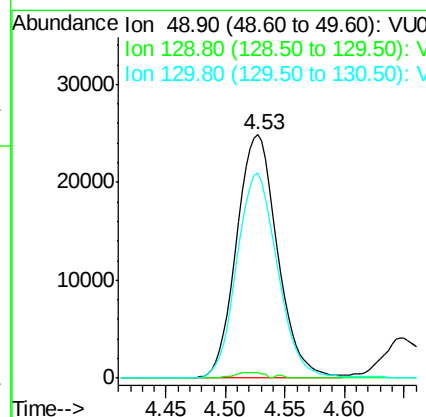
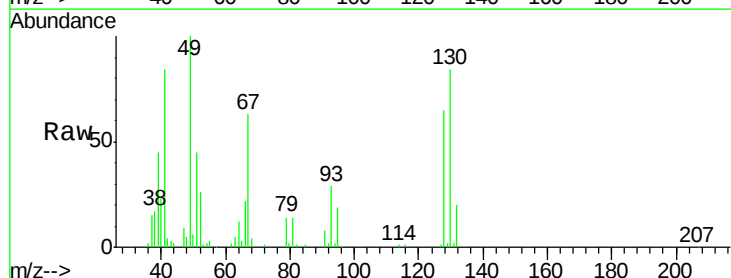
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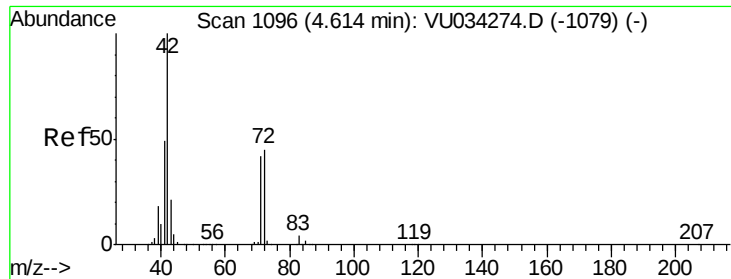


#28

Bromochloromethane
Concen: 20.836 ug/l
RT: 4.53 min Scan# 1069
Delta R.T. 0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.6	0.0	3.8	
130	83.8	65.2	97.8	





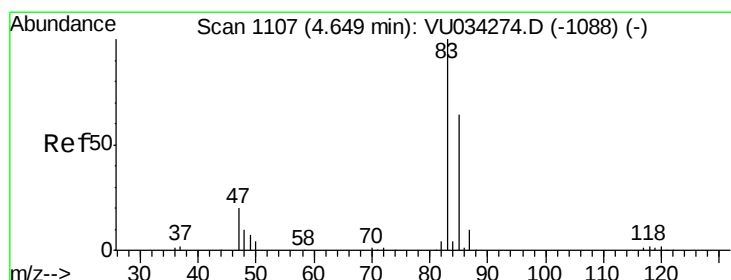
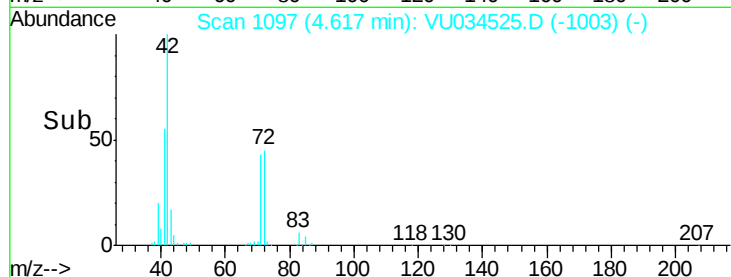
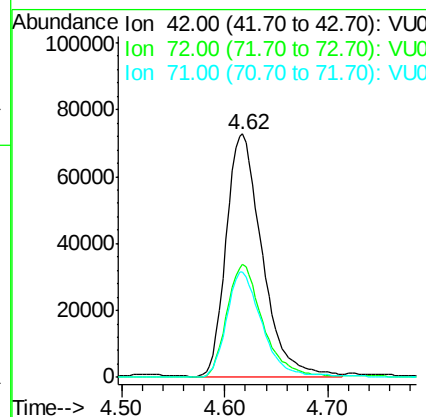
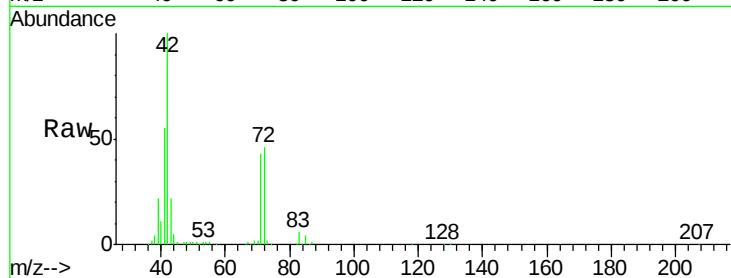
#29
Tetrahydrofuran
Concen: 108.309 ug/l
RT: 4.62 min Scan# 1097
Delta R.T. 0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.9	36.6	54.8
71	42.4	34.3	51.5

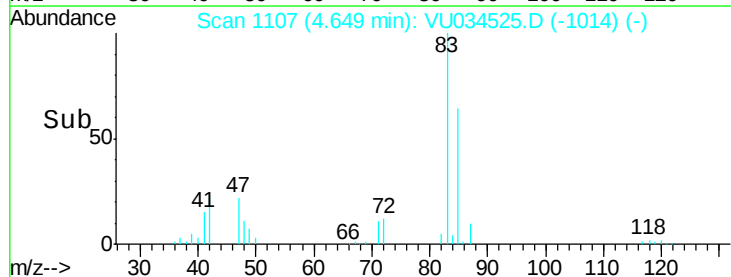
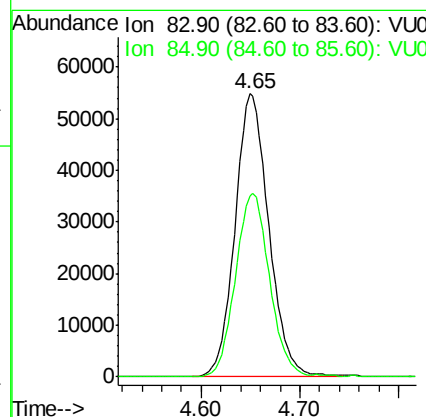
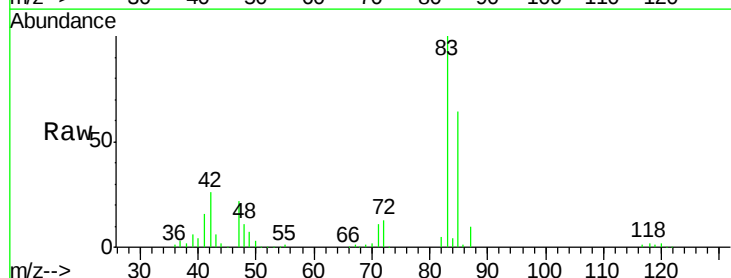
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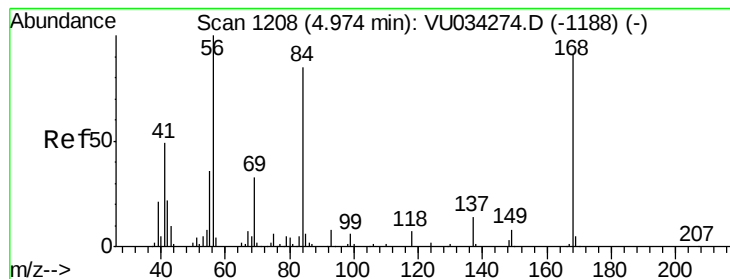
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#30
Chloroform
Concen: 20.757 ug/l
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.5	77.3





#31

Cyclohexane

Concen: 19.133 ug/l

RT: 4.97 min Scan# 1207

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion: 56 Resp: 86667

Ion Ratio Lower Upper

56 100

69 36.3 26.7 40.1

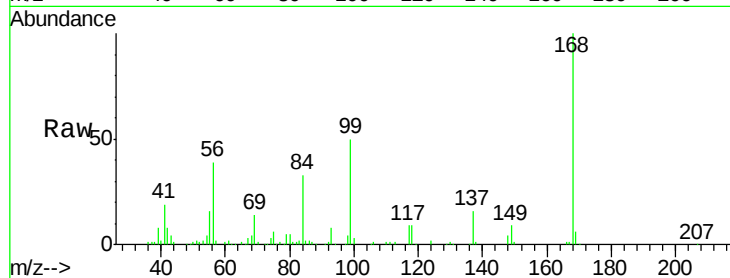
84 84.1 68.2 102.4

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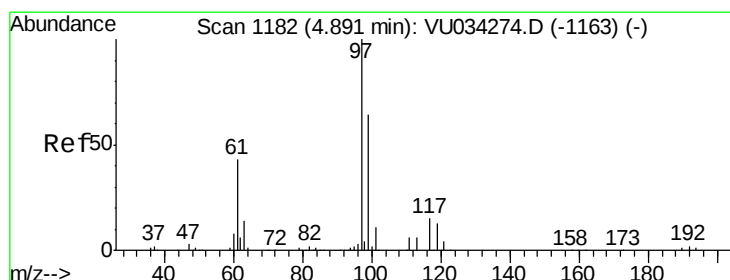
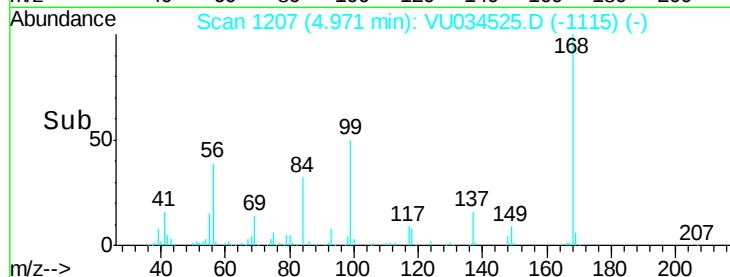
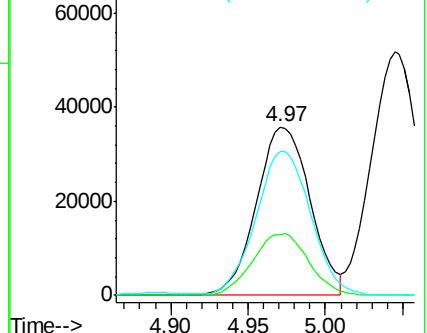
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Abundance Ion 56.00 (55.70 to 56.70): VU034525.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034525.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034525.D (-1188) (-)



#32

1,1,1-Trichloroethane

Concen: 21.186 ug/l

RT: 4.89 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

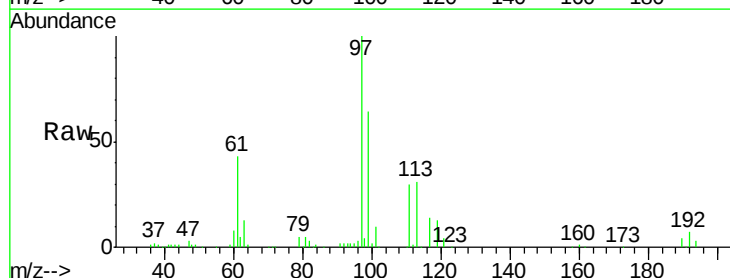
Tgt Ion: 97 Resp: 106603

Ion Ratio Lower Upper

97 100

99 63.7 50.9 76.3

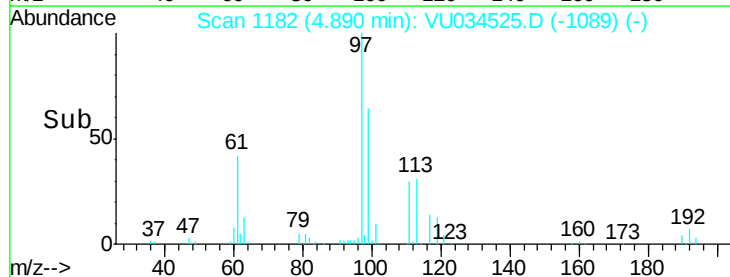
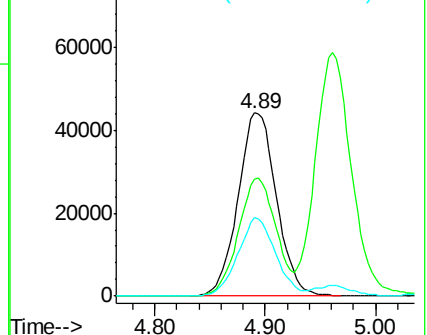
61 41.8 34.7 52.1

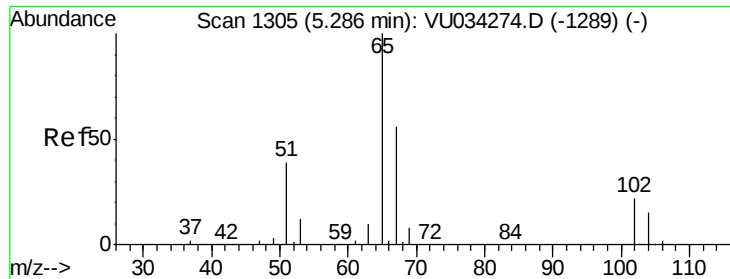


Abundance Ion 96.90 (96.60 to 97.60): VU034525.D (-1089) (-)

Ion 98.90 (98.60 to 99.60): VU034525.D (-1089) (-)

Ion 60.90 (60.60 to 61.60): VU034525.D (-1089) (-)





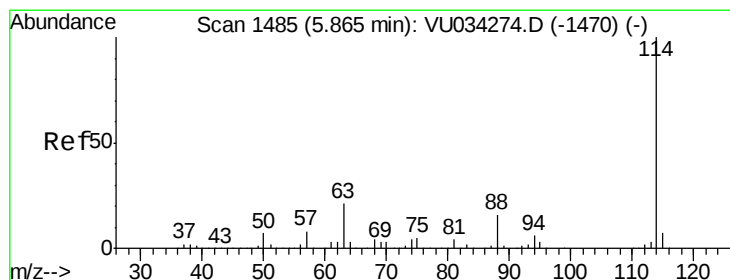
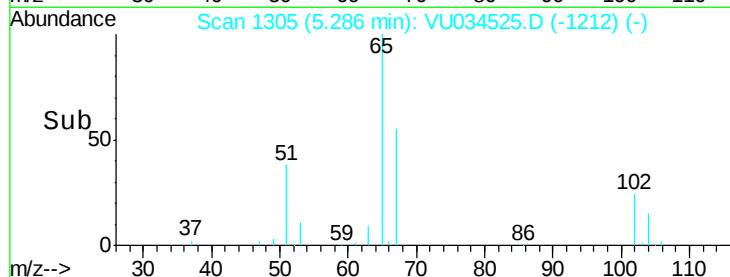
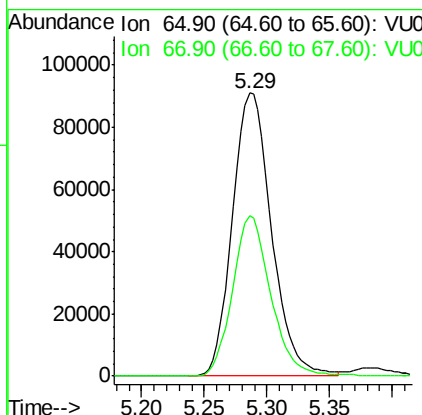
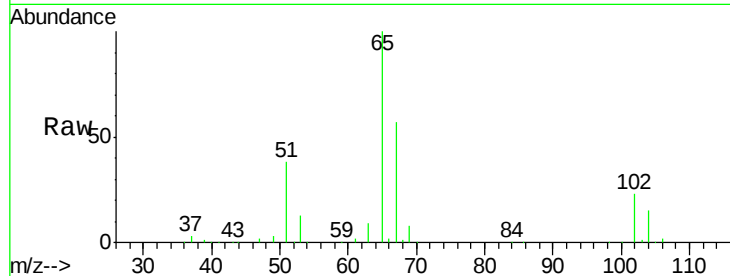
#33
 1,2-Dichloroethane-d4
 Concen: 51.132 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS04

Tot Ion	Ratio	Resp	Lower	Upper
65	100	197734		
67	55.4	0.0	112.4	

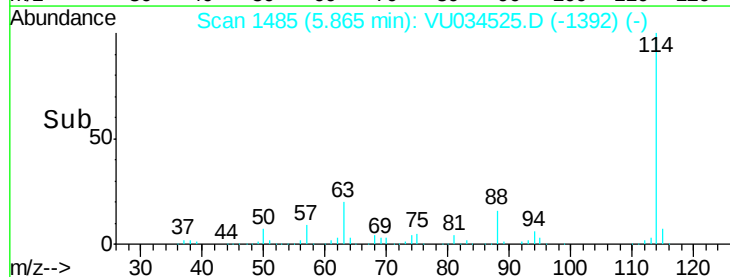
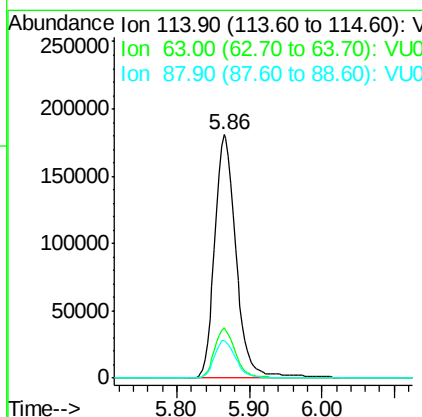
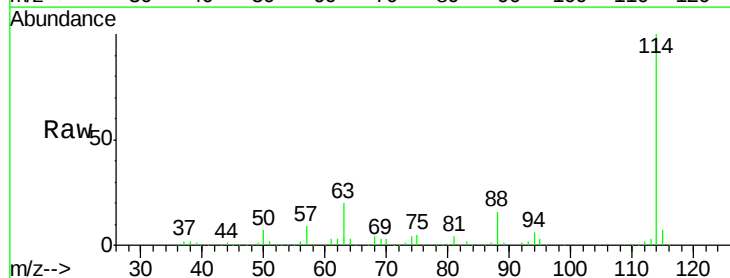
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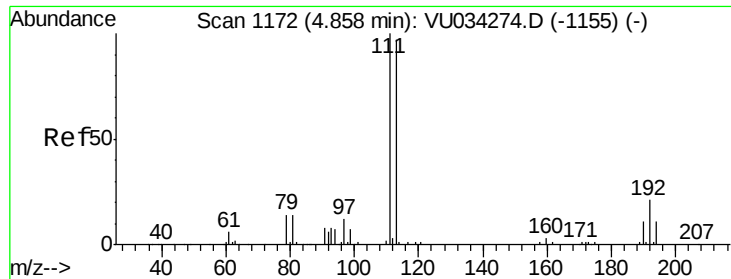
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	370586		
63	20.4	0.0	42.4	
88	15.5	0.0	32.4	





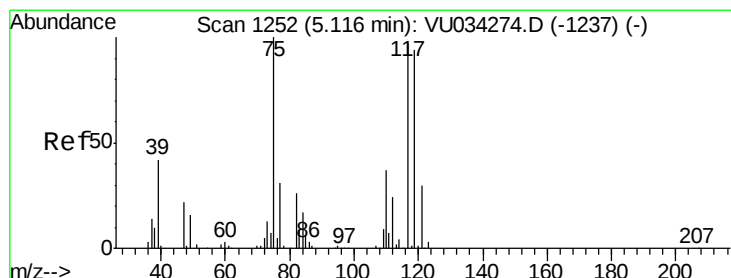
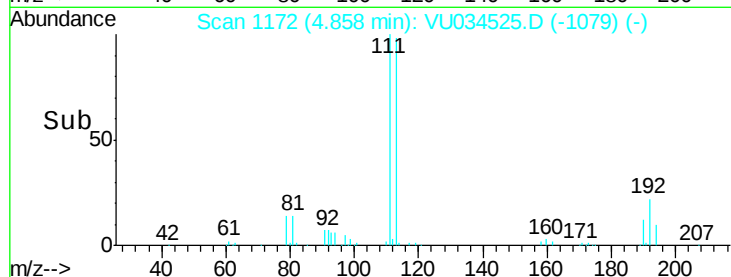
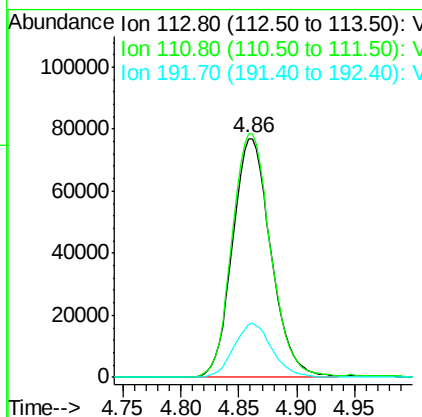
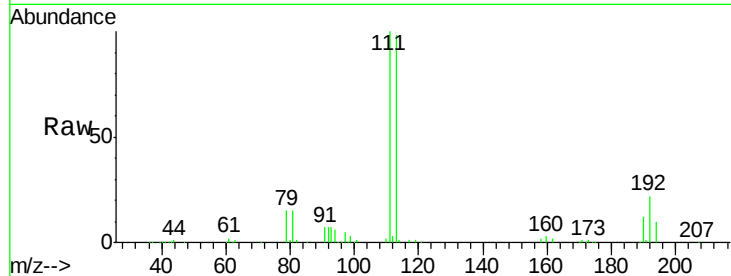
#35
 Dibromofluoromethane
 Concen: 51.379 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS04

Tot Ion	Ratio	Resp	Lower	Upper
113	100	177172		
111	102.7	81.5	122.3	
192	22.4	17.8	26.8	

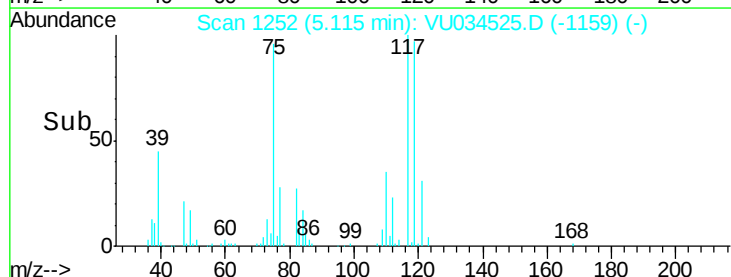
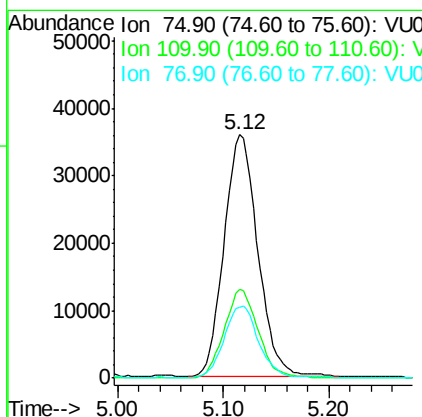
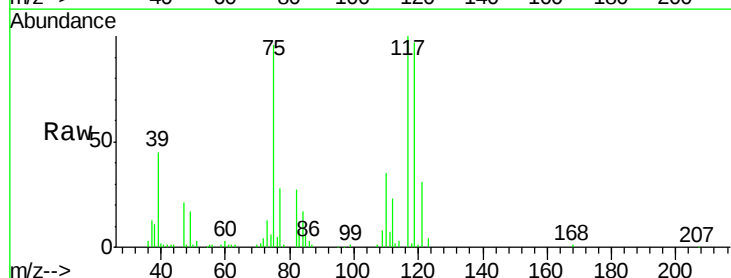
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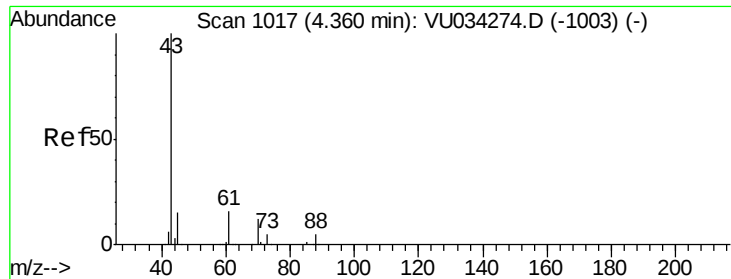
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#36
 1,1-Dichloropropene
 Concen: 19.842 ug/l
 RT: 5.12 min Scan# 1252
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	79748		
110	36.9	18.3	54.9	
77	30.5	24.9	37.3	





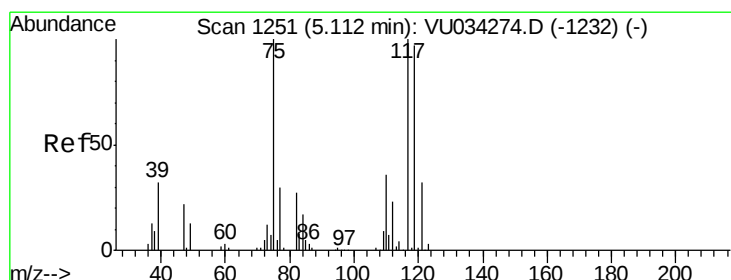
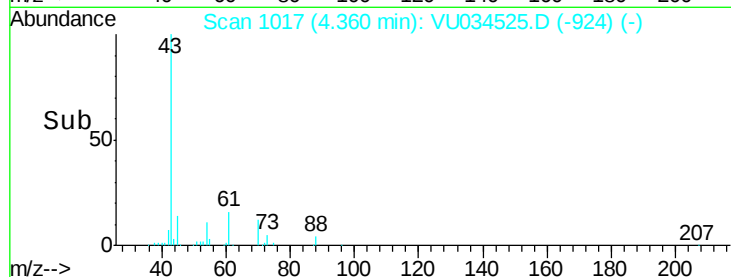
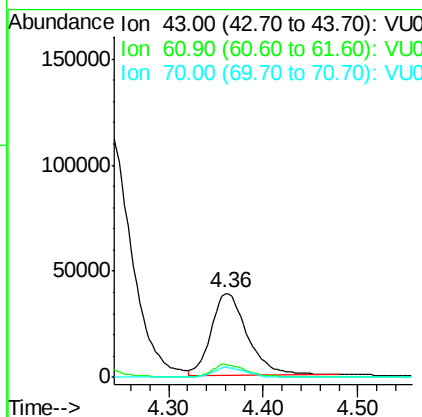
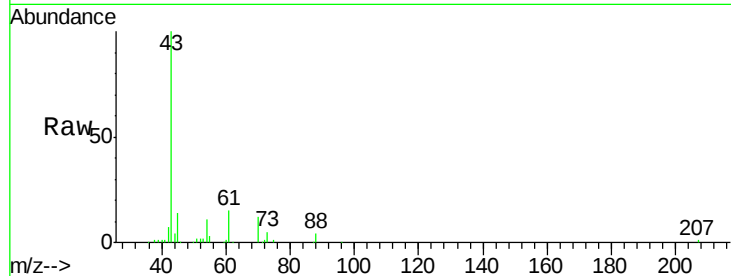
#37
Ethyl Acetate
Concen: 21.430 ug/l
RT: 4.36 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampled :
VU0912WBS04

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	12.3	18.5
70	11.4	9.1	13.7

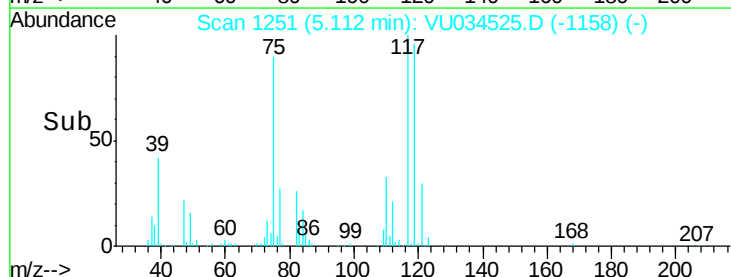
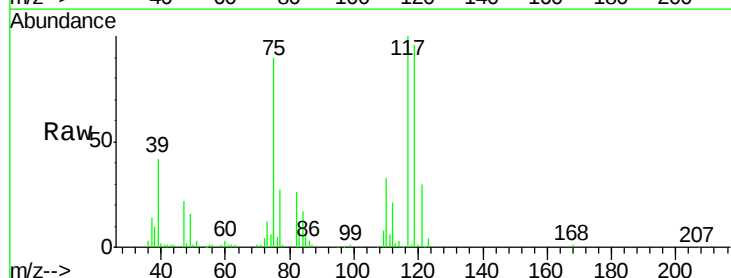
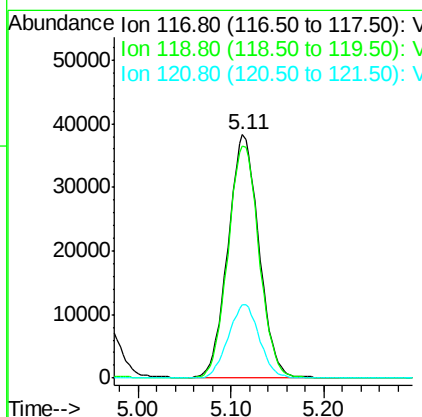
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#38
Carbon Tetrachloride
Concen: 20.680 ug/l
RT: 5.11 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.8	116.6
121	30.0	25.2	37.8





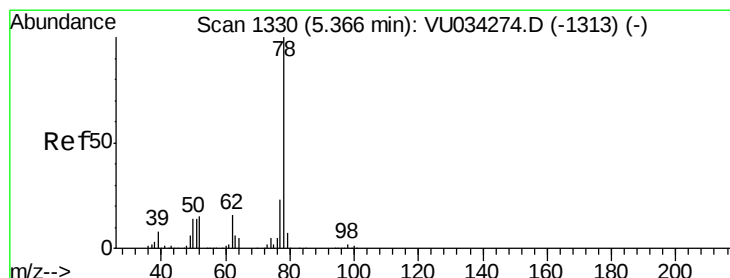
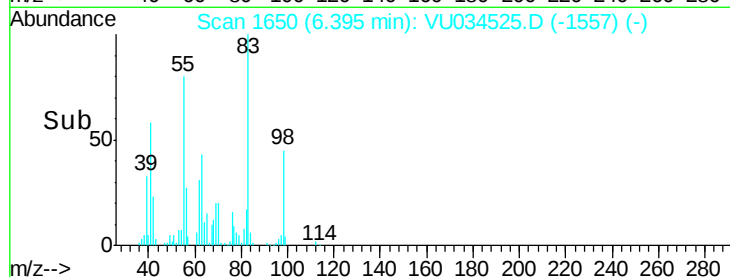
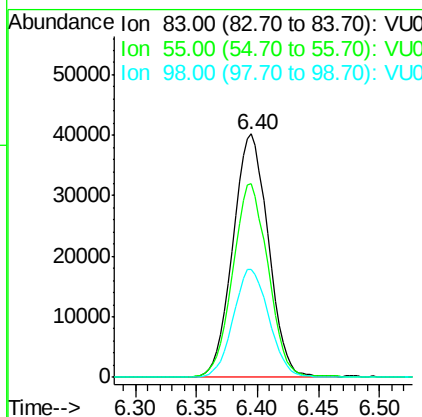
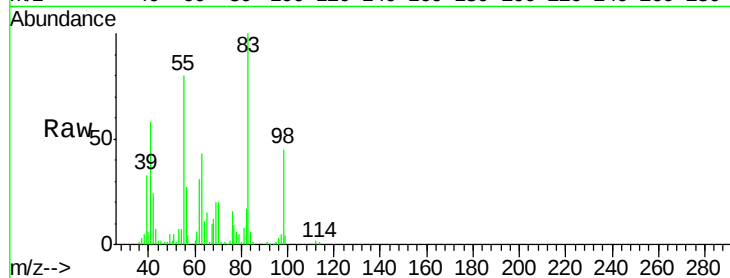
#39
Methvlcvclohexane
Concen: 18.851 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.7	62.1	93.1
98	44.6	37.0	55.6

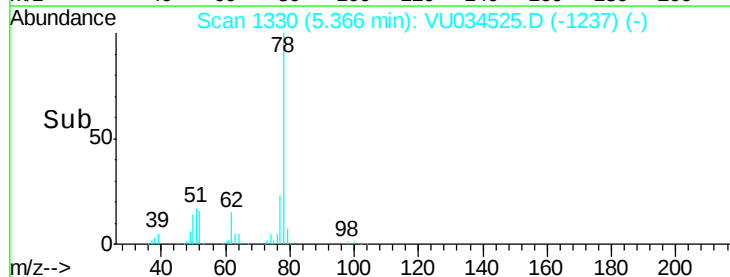
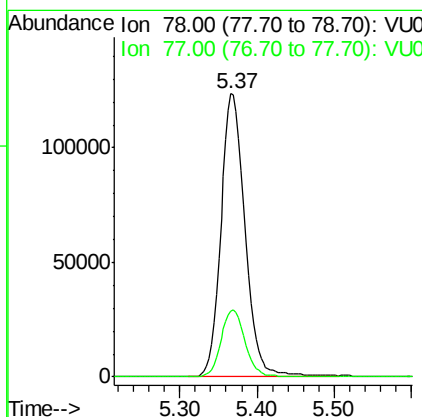
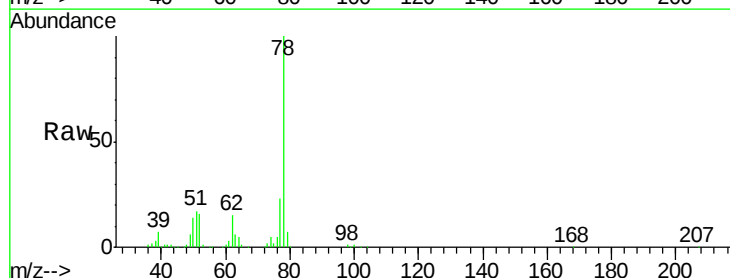
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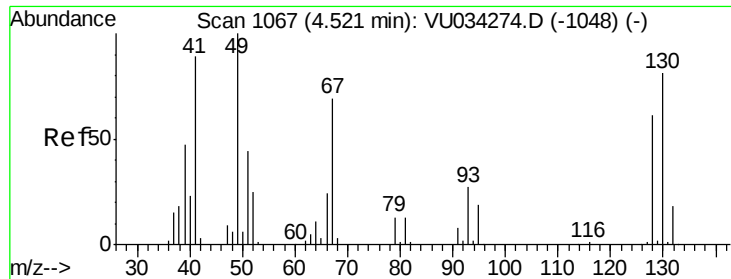
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#40
Benzene
Concen: 20.746 ug/l
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.7	28.1





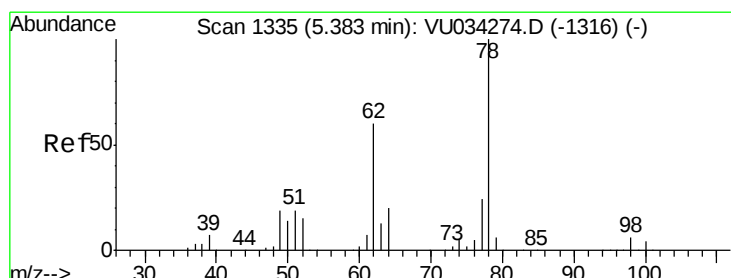
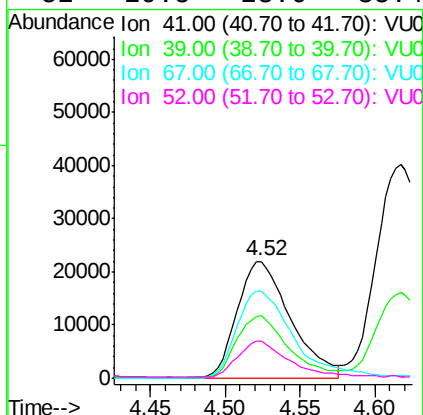
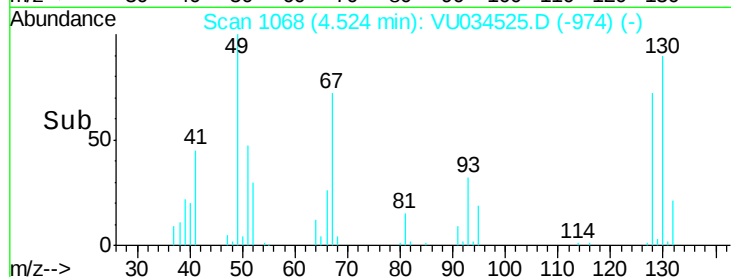
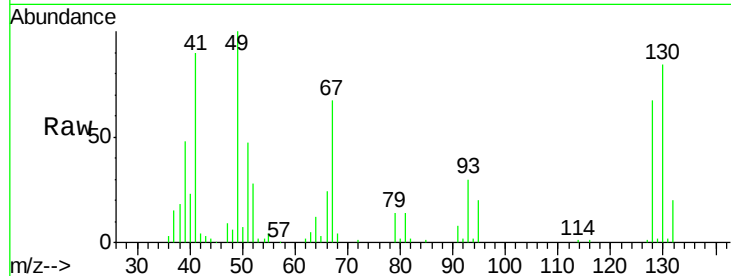
#41
Methacrylonitrile
Concen: 21.575 ug/l
RT: 4.52 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.9	41.0	61.4	
67	80.0	62.4	93.6	
52	29.5	23.6	35.4	

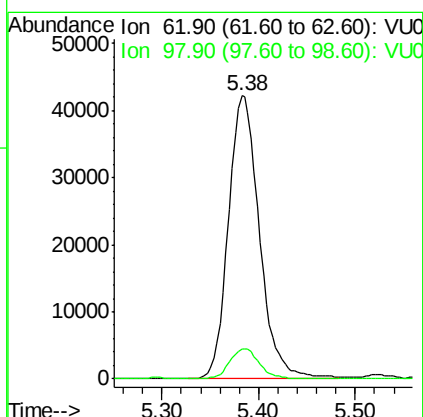
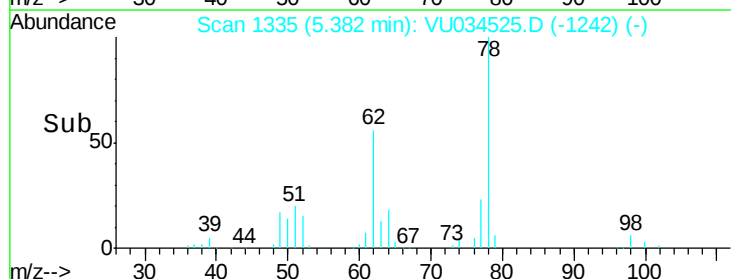
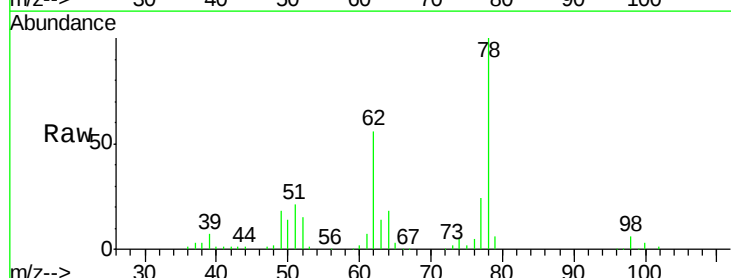
Manual Integrations
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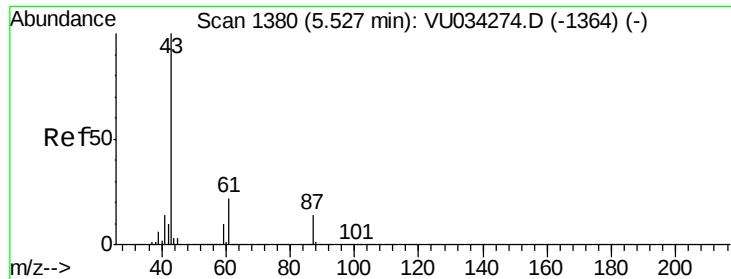
MMDadoda
9/16/2019 11:17:40 AM



#42
1,2-Dichloroethane
Concen: 20.887 ug/l
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.1	0.0	20.0	





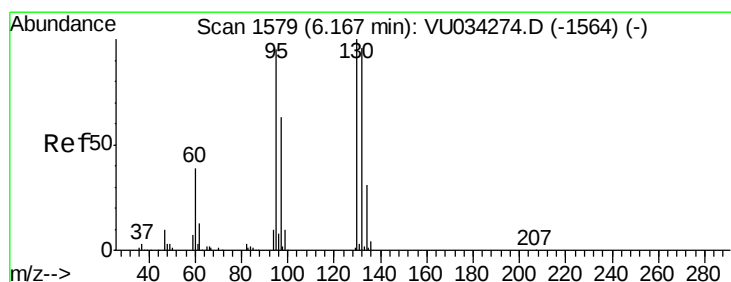
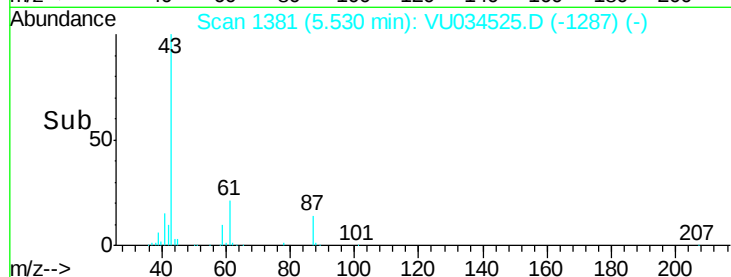
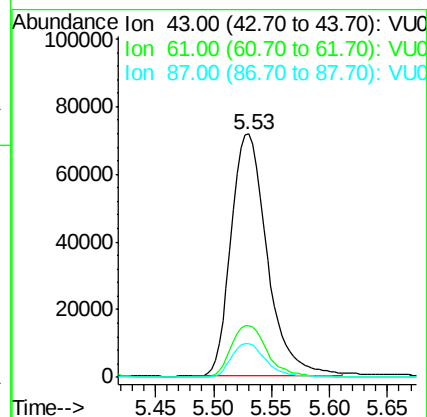
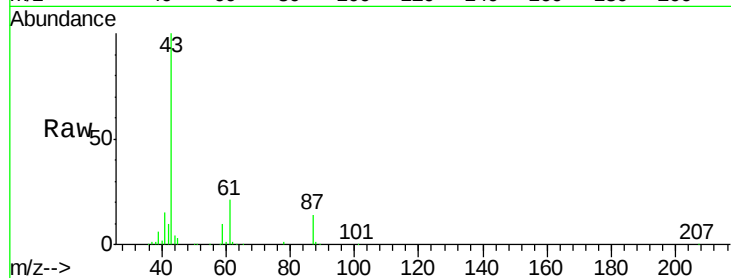
#43
Isopropyl Acetate
Concen: 20.941 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.7	17.1	25.7
87	13.4	11.1	16.7

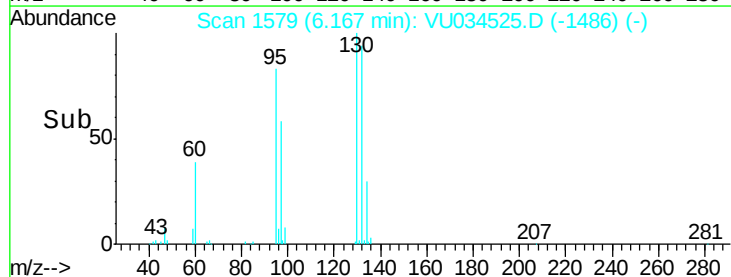
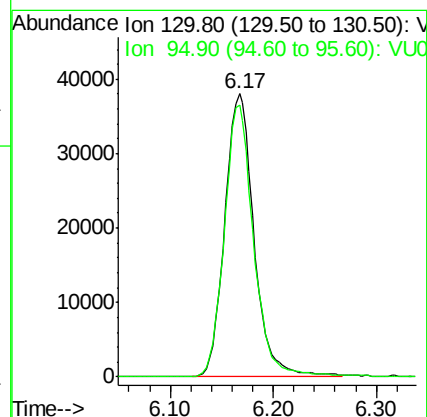
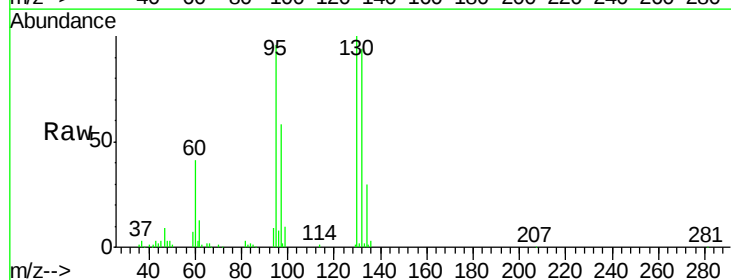
Manual Integrations
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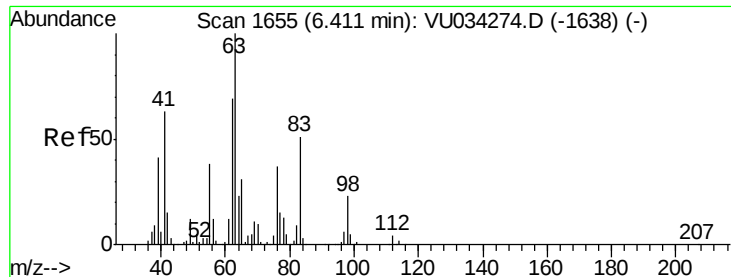
MMDadoda
9/16/2019 11:17:40 AM



#44
Trichloroethene
Concen: 20.926 ug/l
RT: 6.17 min Scan# 1579
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.1	0.0	189.2





#45

1,2-Dichloropropane

Concen: 21.019 ug/l

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion: 63 Resp: 79687

Ion Ratio Lower Upper

63 100

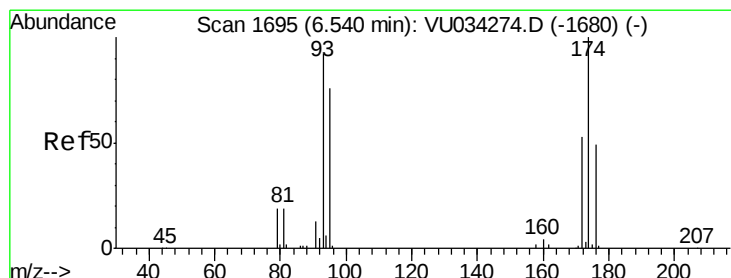
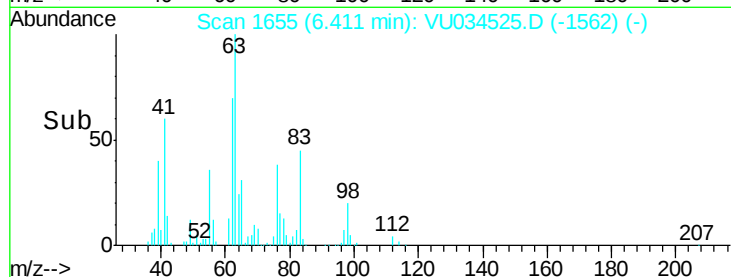
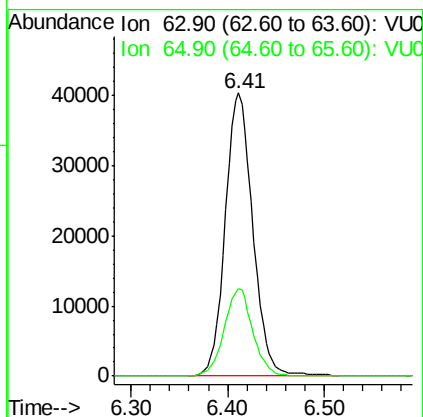
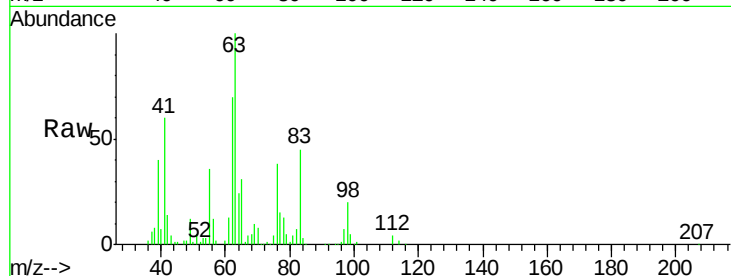
65 30.9 24.6 37.0

Manual Integrations

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#46

Dibromomethane

Concen: 21.171 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

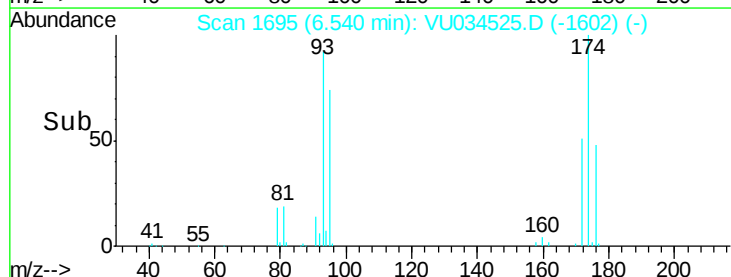
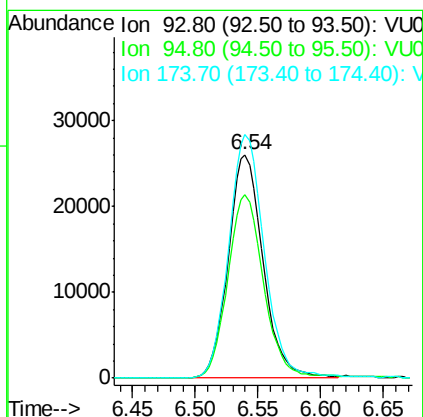
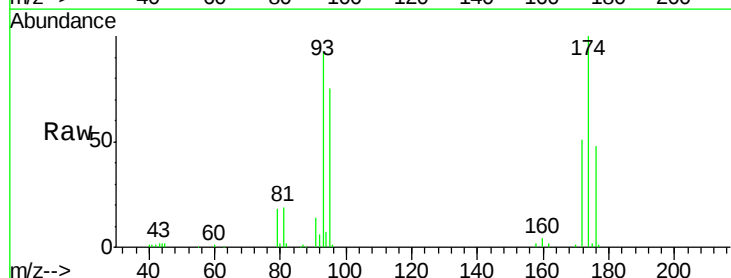
Tgt Ion: 93 Resp: 50383

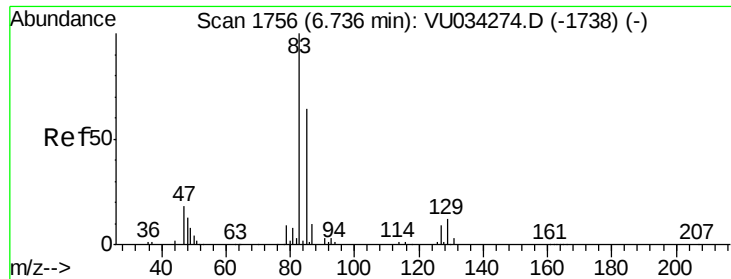
Ion Ratio Lower Upper

93 100

95 84.9 66.5 99.7

174 110.9 87.8 131.6





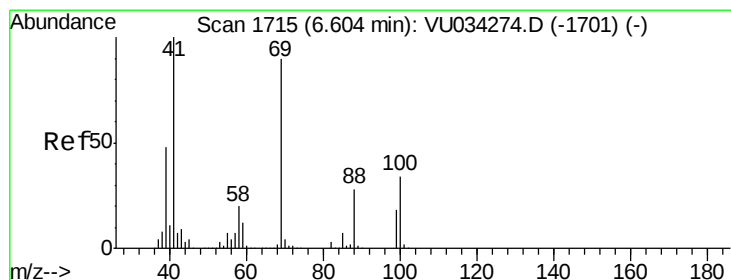
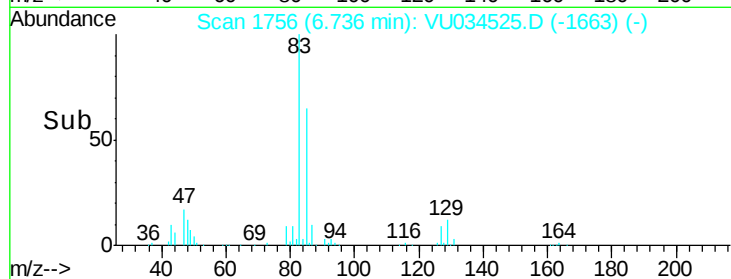
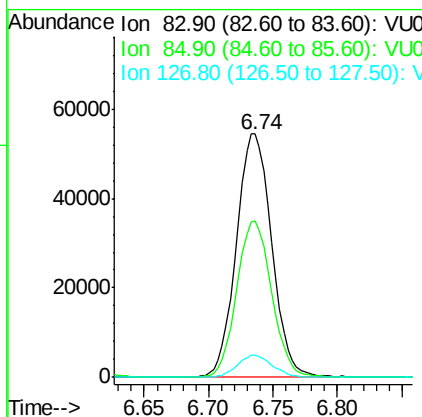
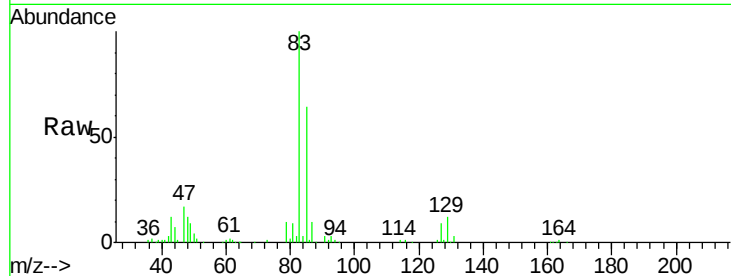
#47
Bromodichloromethane
Concen: 21.238 ug/l
RT: 6.74 min Scan# 1756
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	64.5	51.1	76.7	
127	9.2	7.2	10.8	

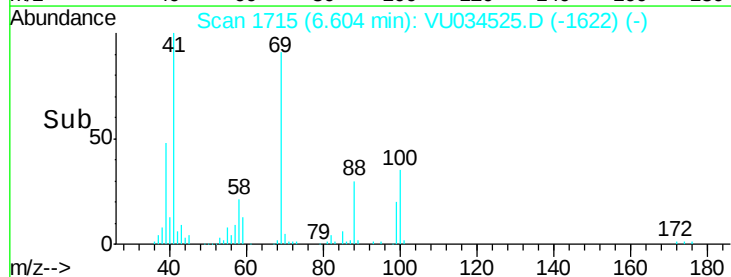
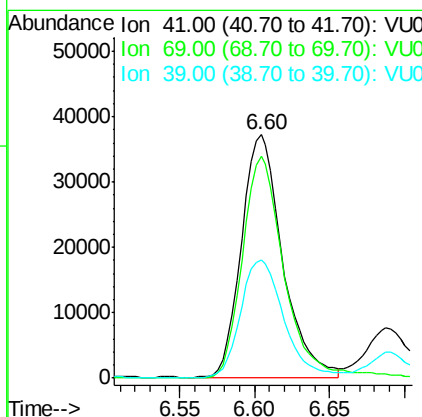
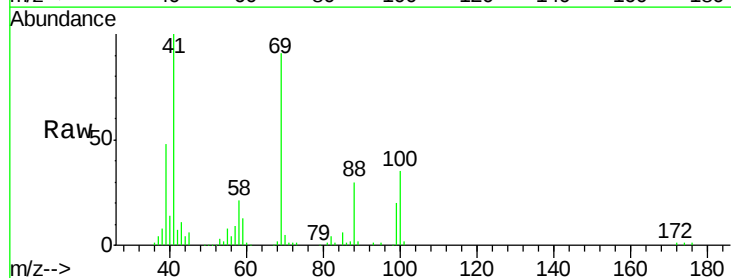
Manual Integrations
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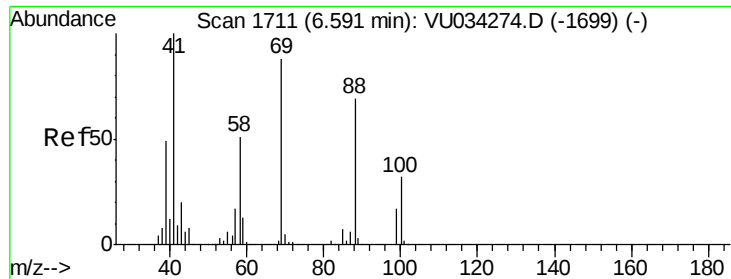
MMDadoda
9/16/2019 11:17:40 AM



#48
Methyl methacrylate
Concen: 20.130 ug/l
RT: 6.60 min Scan# 1715
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	92.0	72.8	109.2	
39	50.8	38.6	58.0	





#49

1,4-Dioxane

Concen: 426.387 ug/l

RT: 6.59 min Scan# 1711

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

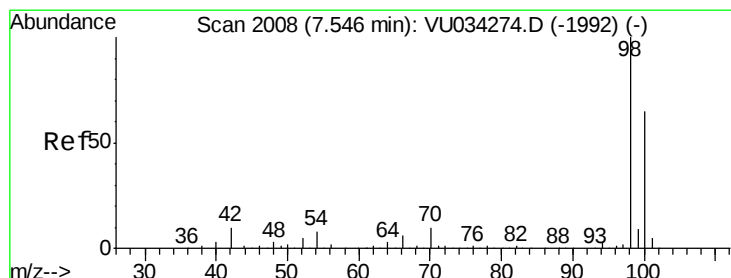
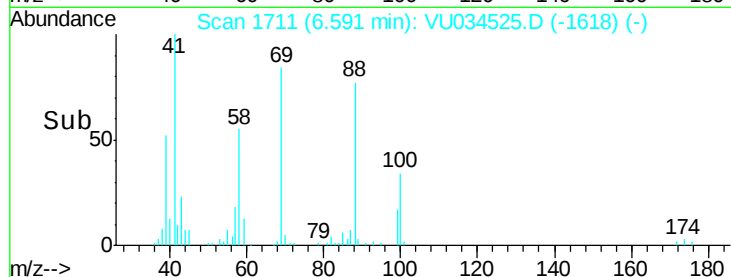
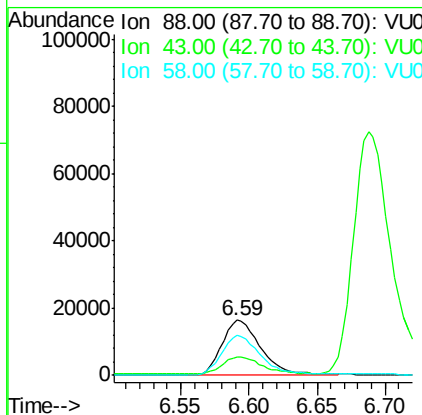
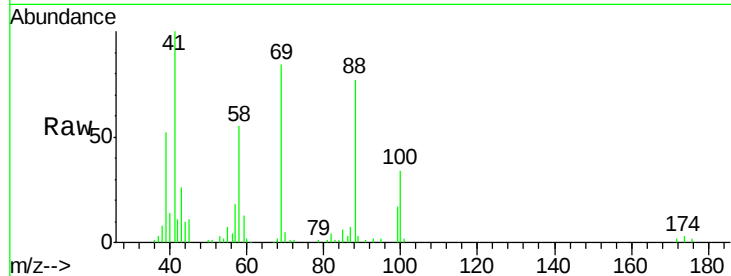
ClientSampleId :

VU0912WBS04

Tot Ion:	88	Resp:	32781
Ion	Ratio	Lower	Upper
88	100		
43	30.7	23.8	35.6
58	72.4	58.4	87.6

Manual Integrations
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#50

Toluene-d8

Concen: 50.374 ug/l

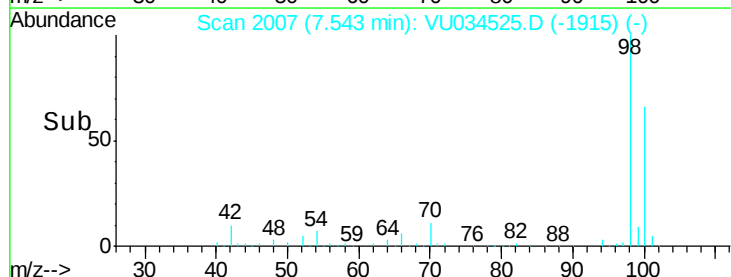
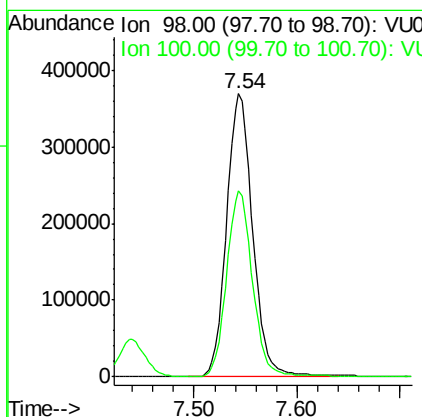
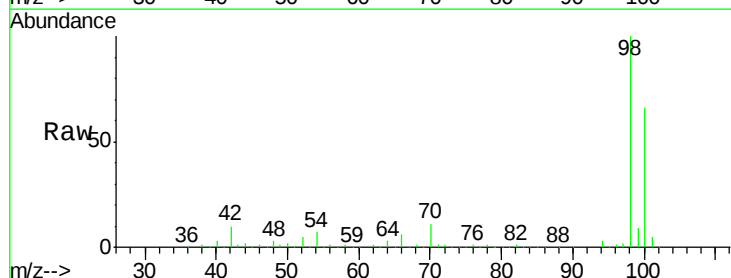
RT: 7.54 min Scan# 2007

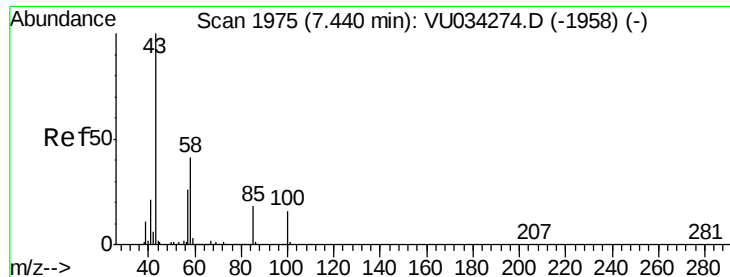
Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Tgt Ion:	98	Resp:	652609
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 106.838 ug/l

RT: 7.44 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion: 43 Resp: 548199

Ion Ratio Lower Upper

43 100

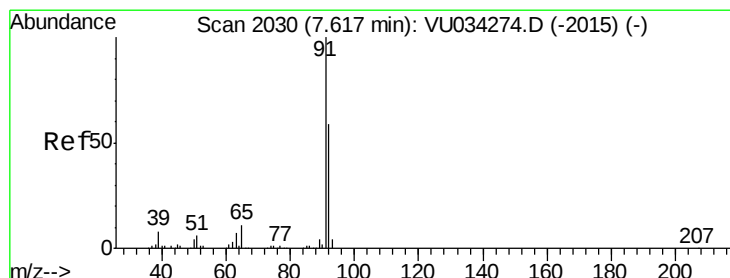
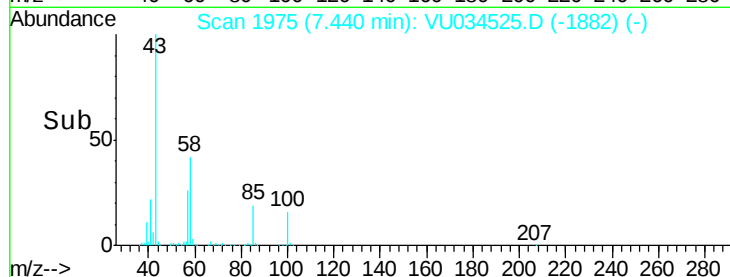
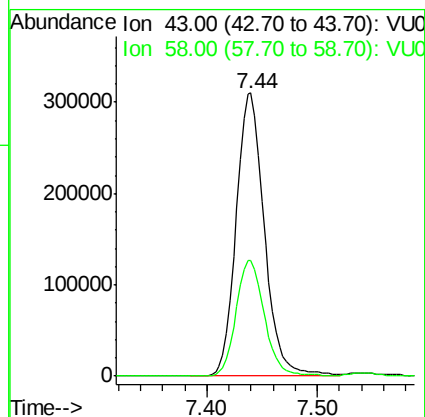
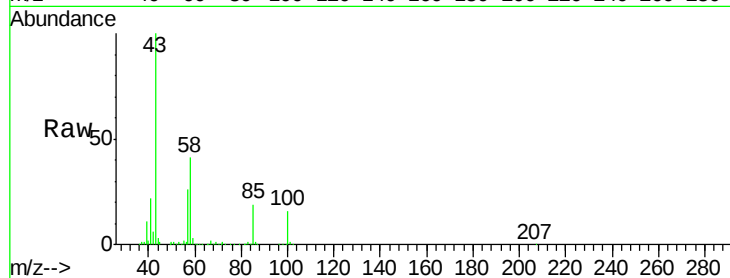
58 41.3 33.0 49.4

Manual Integrations

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#52

Toluene

Concen: 20.993 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU034525.D

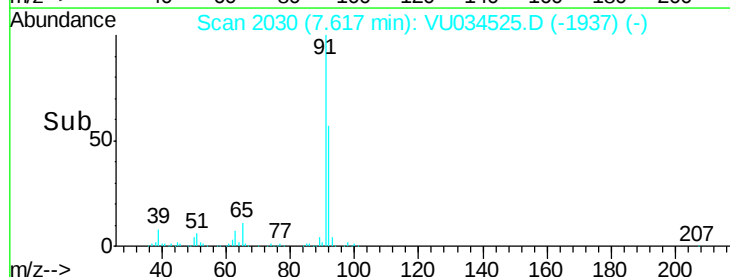
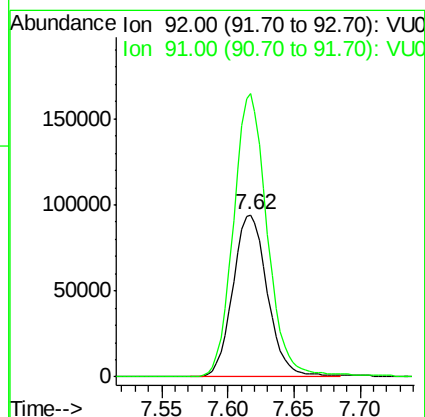
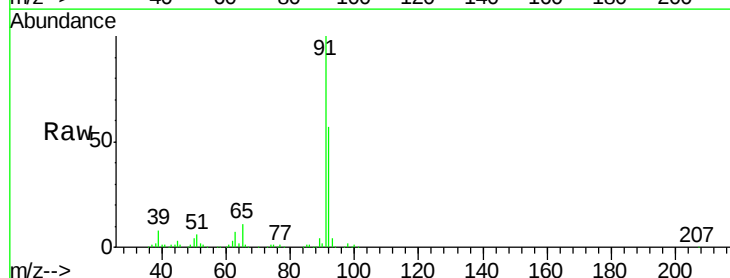
Acq: 12 Sep 2019 17:14

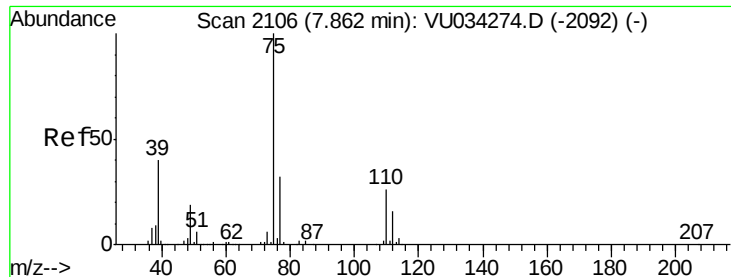
Tgt Ion: 92 Resp: 170785

Ion Ratio Lower Upper

92 100

91 171.7 136.6 205.0





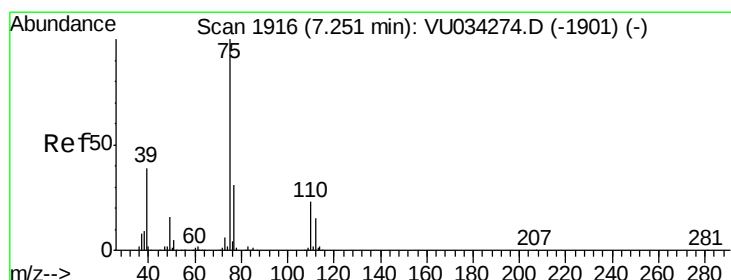
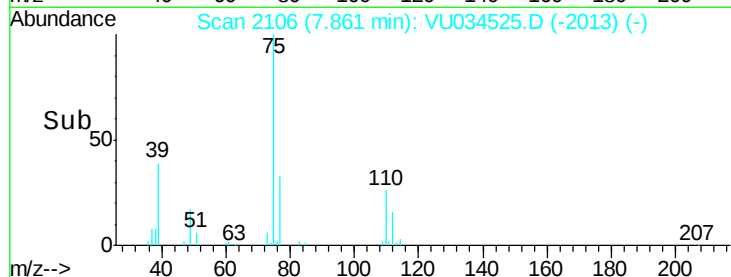
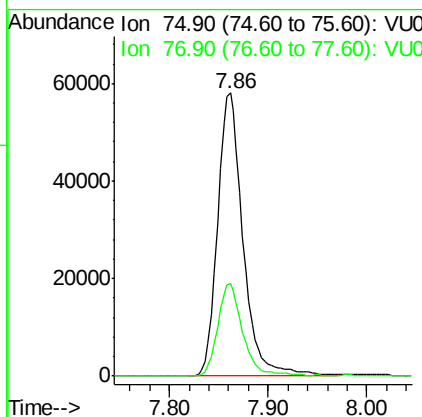
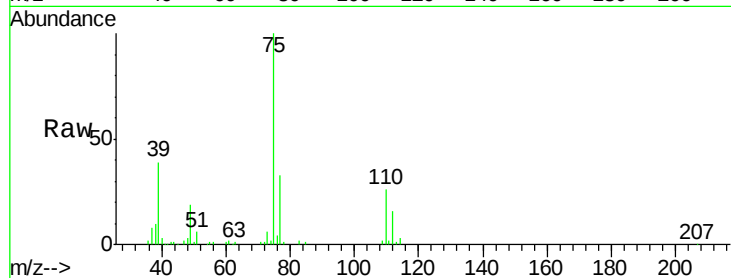
#53
t-1,3-Dichloropropene
Concen: 20.702 ug/l
RT: 7.86 min Scan# 2106
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.7	38.5

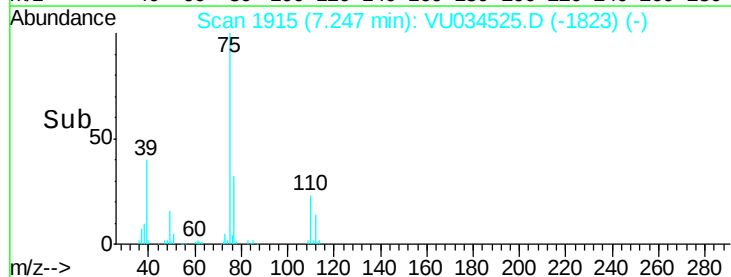
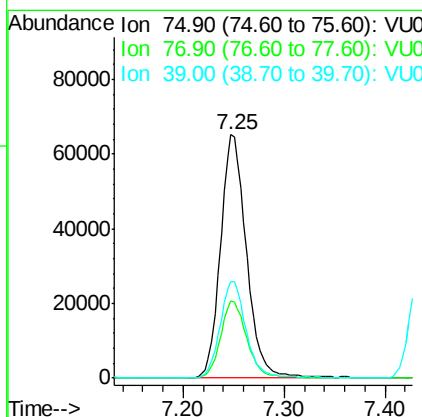
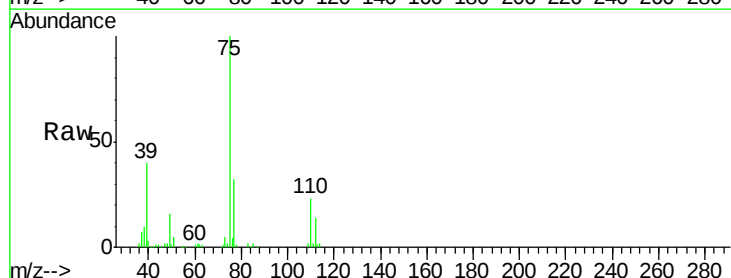
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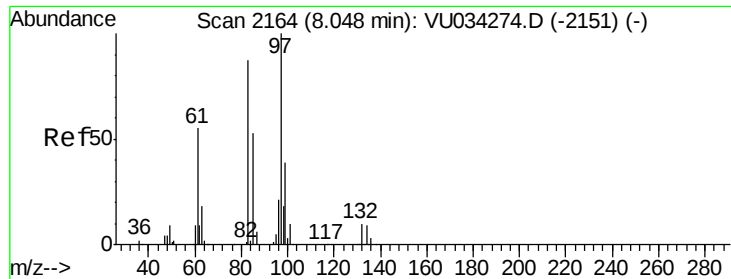
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#54
cis-1,3-Dichloropropene
Concen: 21.122 ug/l
RT: 7.25 min Scan# 1915
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.1	37.7
39	39.8	31.2	46.8





#55

1,1,2-Trichloroethane

Concen: 21.646 ug/l

RT: 8.05 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

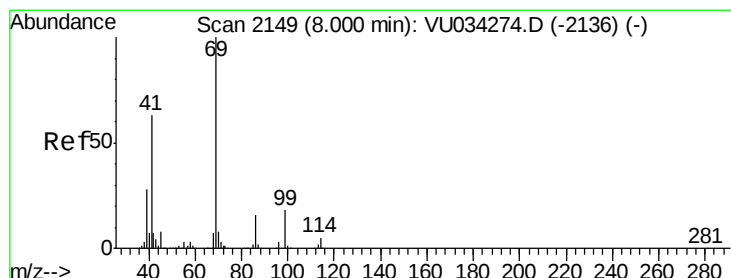
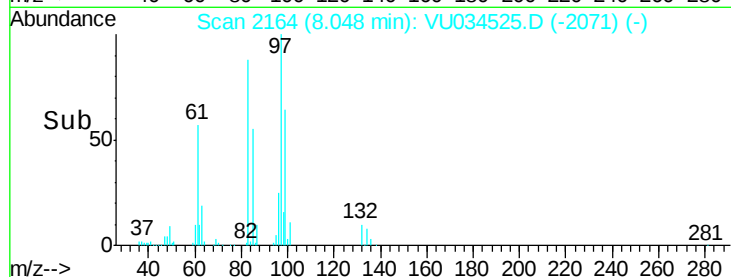
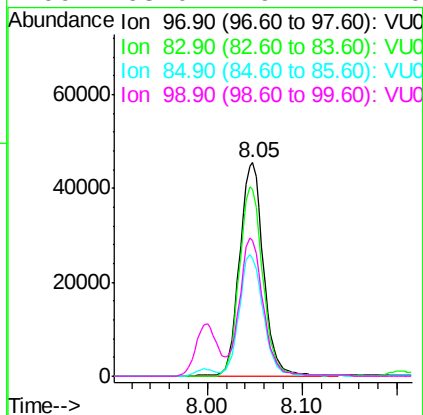
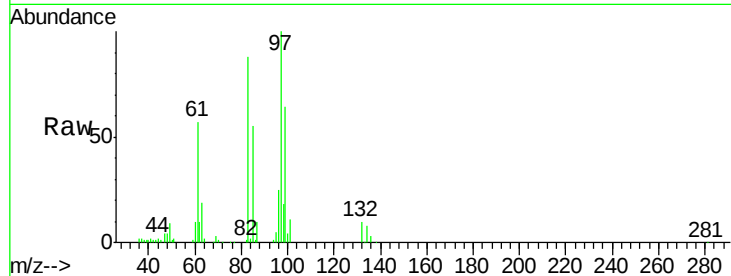
ClientSampleId :

VU0912WBS04

Tot Ion:	97	Resp:	79961
Ion	Ratio	Lower	Upper
97	100		
83	87.5	69.0	103.6
85	55.0	44.2	66.2
99	63.0	49.4	74.0

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#56

Ethyl methacrylate

Concen: 20.938 ug/l

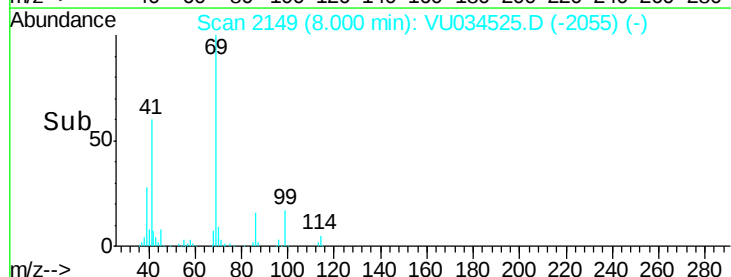
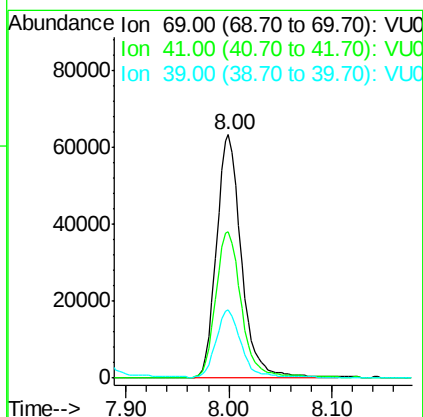
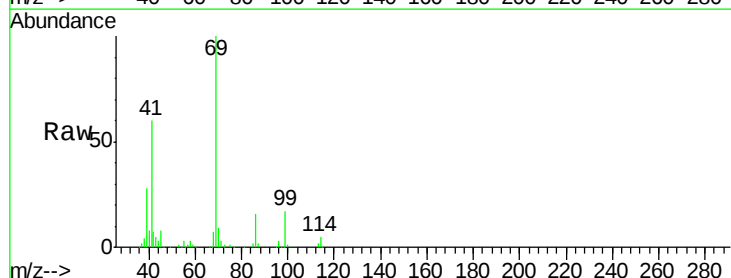
RT: 8.00 min Scan# 2149

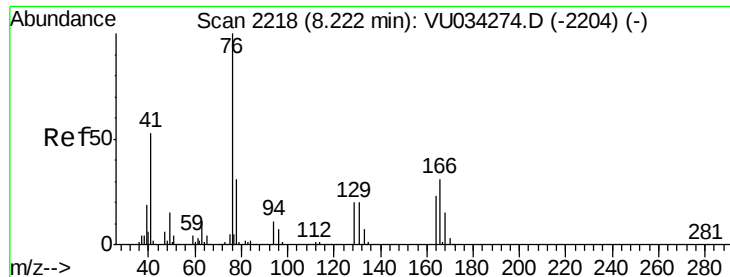
Delta R.T. 0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Tgt Ion:	69	Resp:	106814
Ion	Ratio	Lower	Upper
69	100		
41	61.3	49.5	74.3
39	27.2	22.5	33.7





#57

1,3-Dichloropropane

Concen: 21.168 ug/l

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion: 76 Resp: 127330

Ion Ratio Lower Upper

76 100

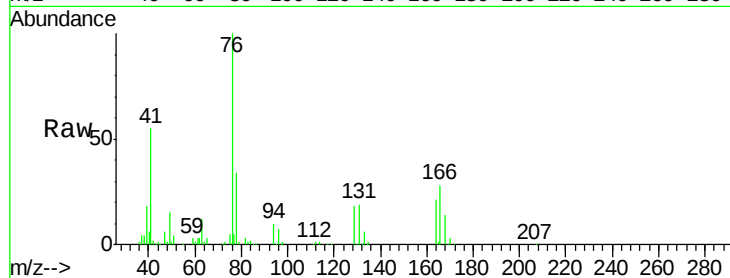
78 33.3 25.4 38.2

Manual Integrations

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9/16/2019 11:17:40 AM



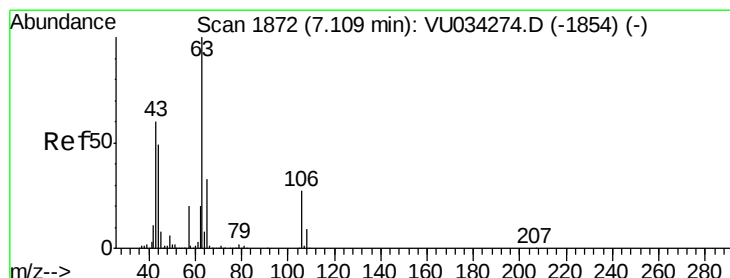
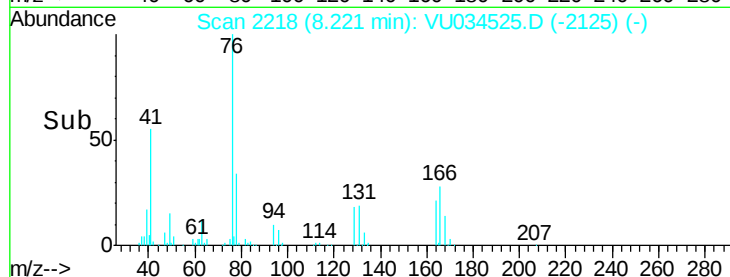
Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

8.22

8.20 8.30

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 93.288 ug/l

RT: 7.11 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VU034525.D

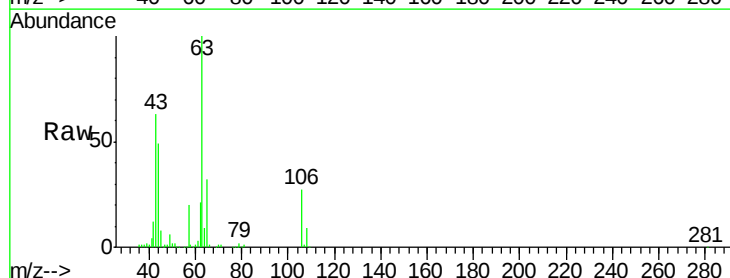
Acq: 12 Sep 2019 17:14

Tgt Ion: 63 Resp: 155945

Ion Ratio Lower Upper

63 100

106 27.1 21.6 32.4



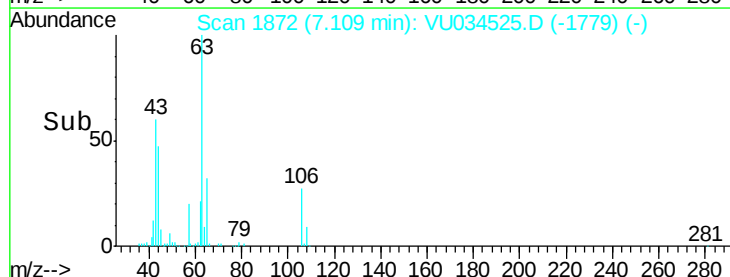
Abundance Ion 62.90 (62.60 to 63.60): VU0

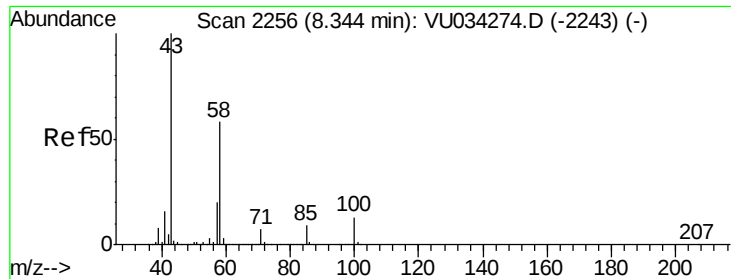
Ion 105.90 (105.60 to 106.60): V

7.11

7.00 7.10 7.20

Time-->





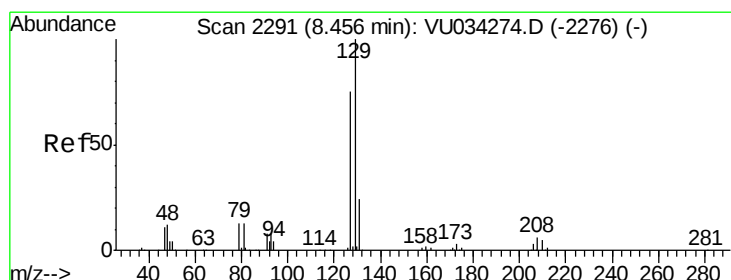
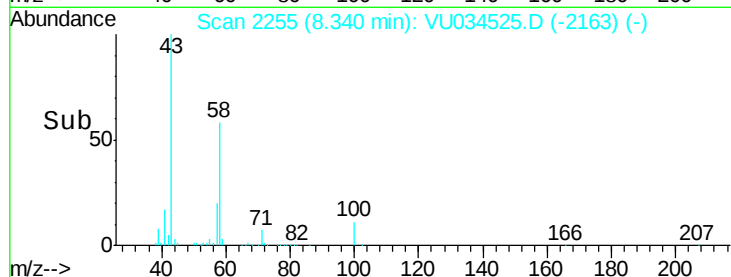
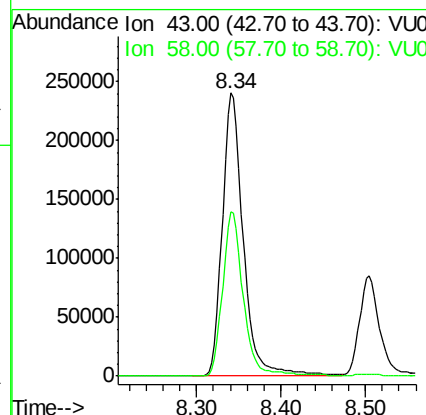
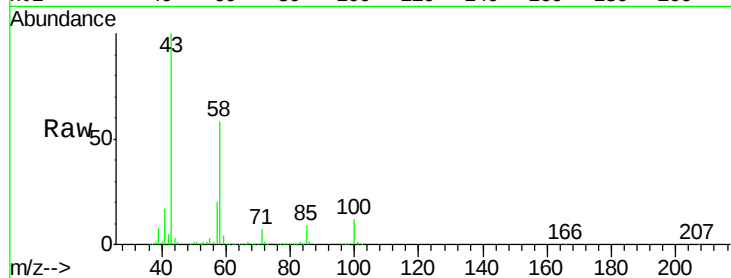
#59
2-Hexanone
Concen: 108.334 ug/l
RT: 8.34 min Scan# 2255
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	43	Resp	415268
Ion	Ratio	Lower	Upper
43	100		
58	57.7	28.8	86.5

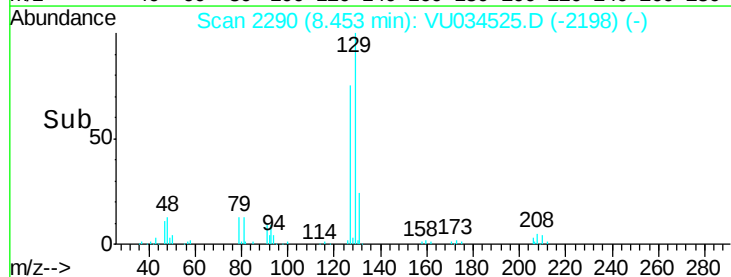
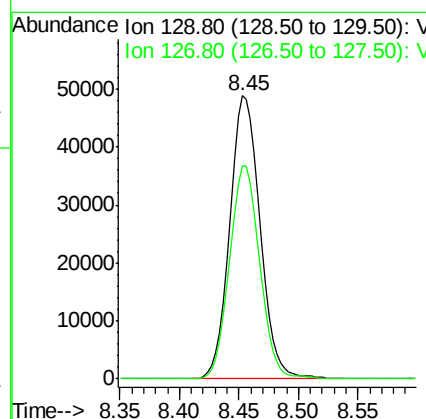
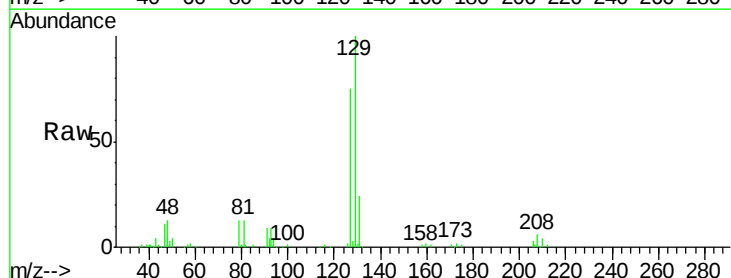
Manual Integrations
APPROVED

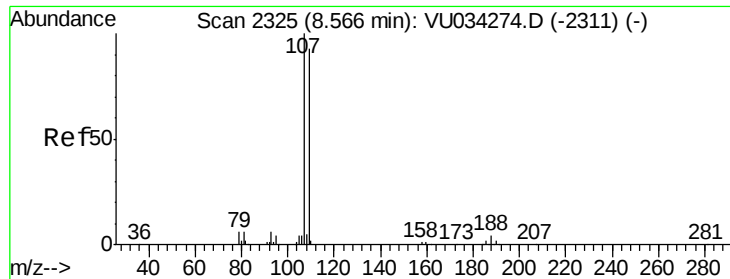
MMDadoda
9/16/2019 11:17:40 AM



#60
Dibromochloromethane
Concen: 21.785 ug/l
RT: 8.45 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	129	Resp	86314
Ion	Ratio	Lower	Upper
129	100		
127	75.1	37.9	113.7





#61

1,2-Dibromoethane

Concen: 21.005 ug/l

RT: 8.57 min Scan# 2325

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion:107 Resp: 75944

Ion Ratio Lower Upper

107 100

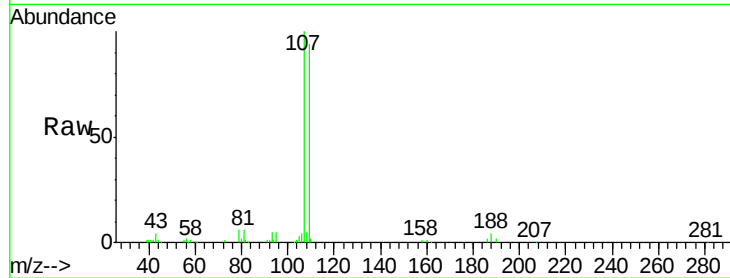
109 95.7 75.0 112.6

Manual Integrations

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9/16/2019 11:17:40 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.57

50000

40000

30000

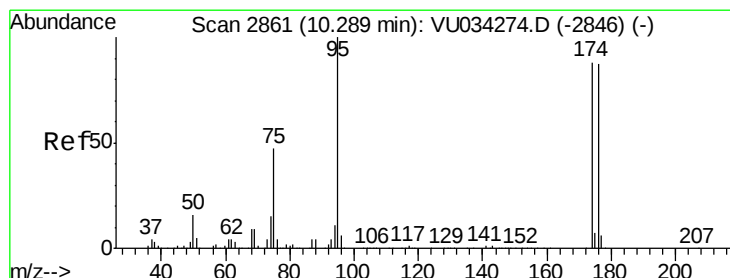
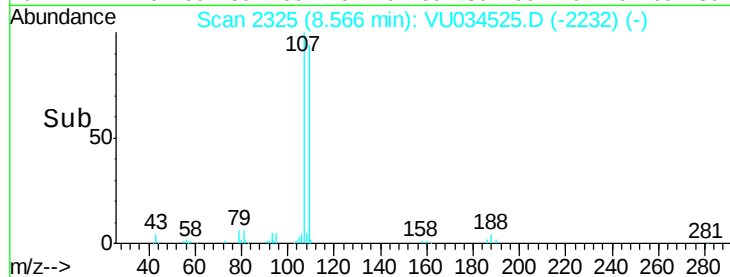
20000

10000

0

8.50 8.55 8.60 8.65

Time-->



#62

4-Bromofluorobenzene

Concen: 49.489 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

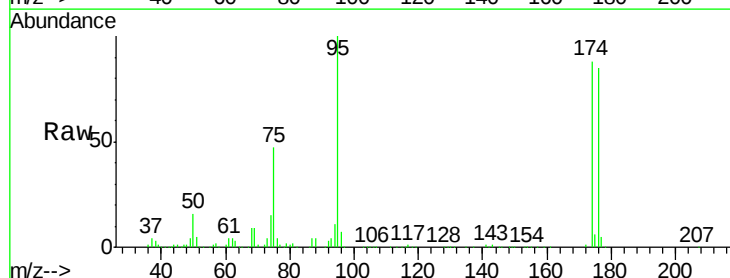
Tgt Ion: 95 Resp: 247543

Ion Ratio Lower Upper

95 100

174 87.4 0.0 175.2

176 84.5 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

10.29

200000

150000

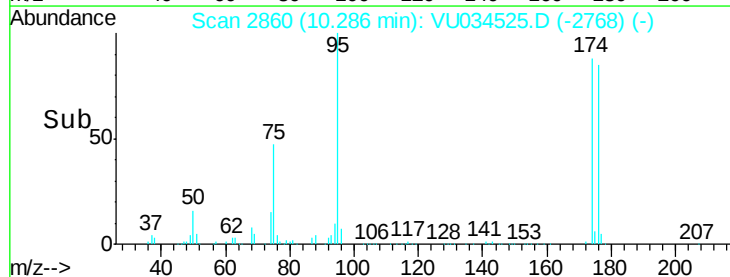
100000

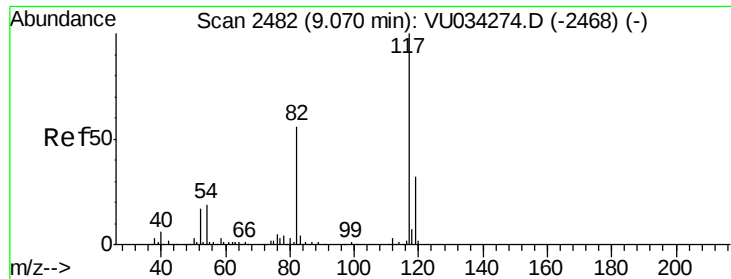
50000

0

10.20 10.30 10.40

Time-->





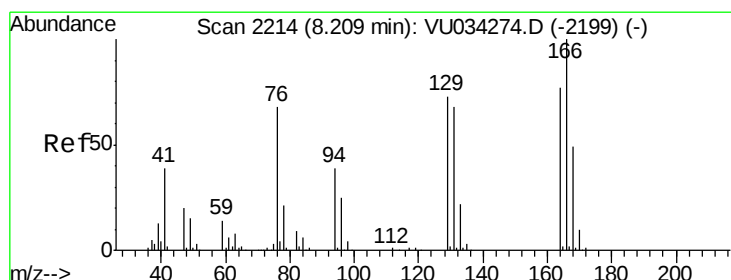
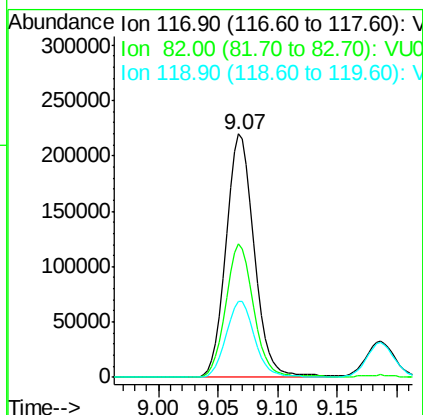
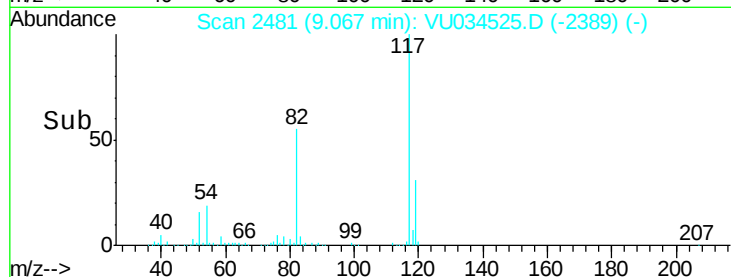
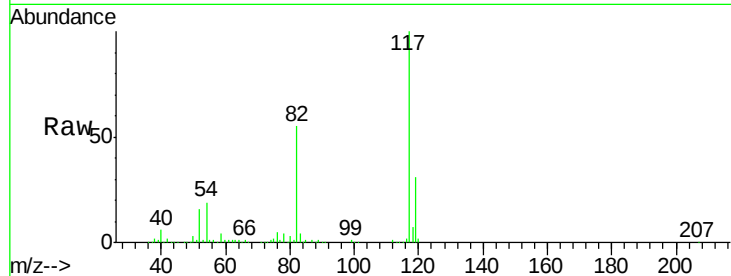
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2481
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	Ratio	Resp	Lower	Upper
117	100	362691		
82	54.7	44.6	67.0	
119	31.3	25.9	38.9	

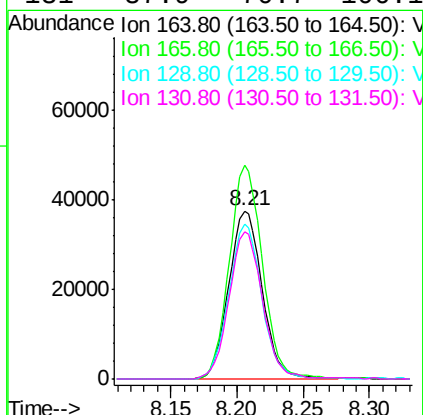
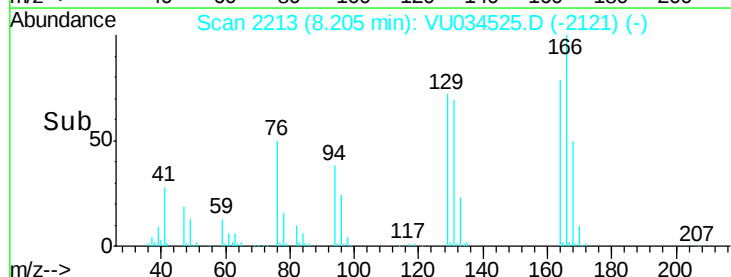
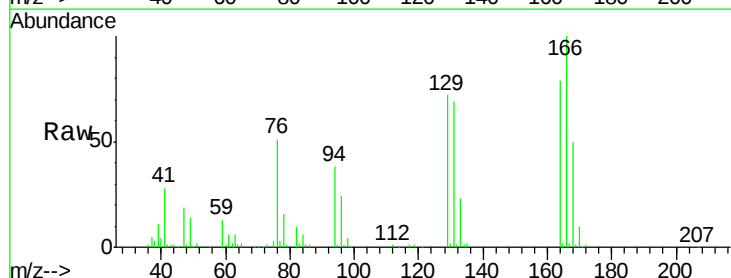
Manual Integrations
APPROVED

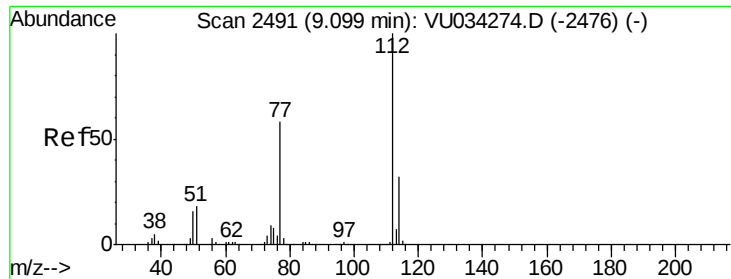
MMDadoda
9/16/2019 11:17:40 AM



#64
Tetrachloroethene
Concen: 20.991 ug/l
RT: 8.21 min Scan# 2213
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	66049		
166	127.0	103.7	155.5	
129	91.8	75.8	113.8	
131	87.9	70.7	106.1	





#65

Chlorobenzene

Concen: 21.510 ug/l

RT: 9.10 min Scan# 2490

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion:112 Resp: 197924

Ion Ratio Lower Upper

112 100

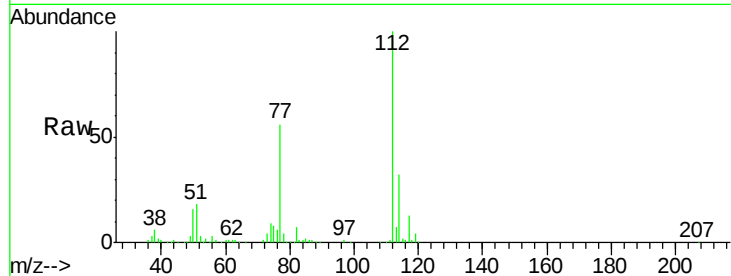
114 32.0 25.9 38.9

Manual Integrations

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MMDadoda

9/16/2019 11:17:40 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

9.10

120000

100000

80000

60000

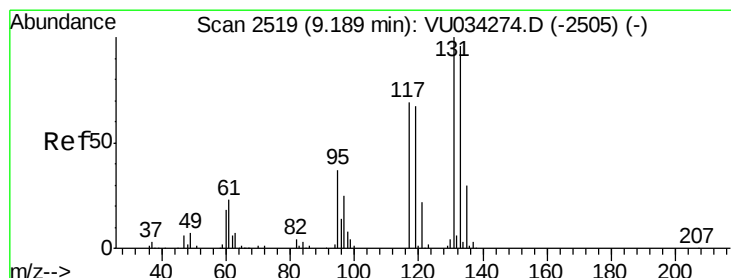
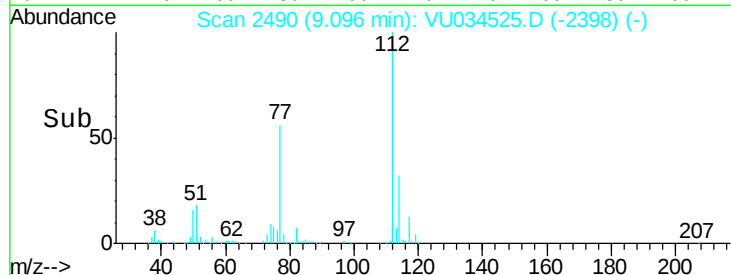
40000

20000

0

Time-->

9.00 9.10 9.20 9.30



#66

1,1,1,2-Tetrachloroethane

Concen: 21.889 ug/l

RT: 9.19 min Scan# 2518

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

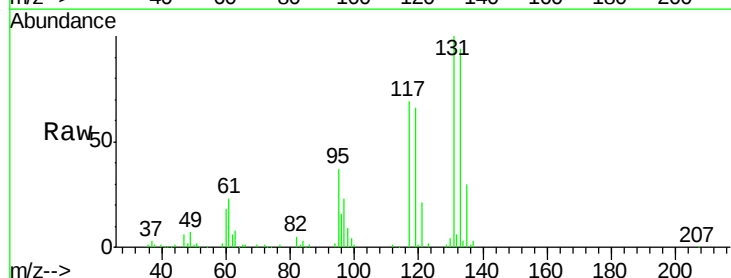
Tgt Ion:131 Resp: 76866

Ion Ratio Lower Upper

131 100

133 96.2 47.9 143.7

119 65.8 33.1 99.5



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

9.19

60000

50000

40000

30000

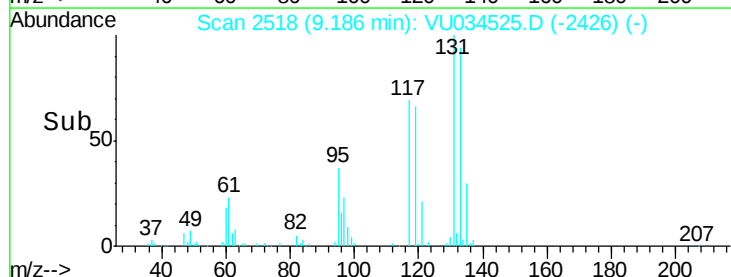
20000

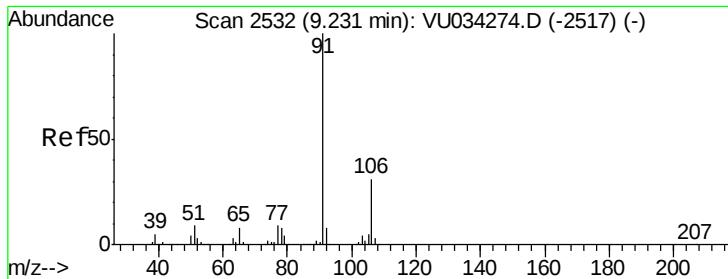
10000

0

Time-->

9.10 9.15 9.20 9.25





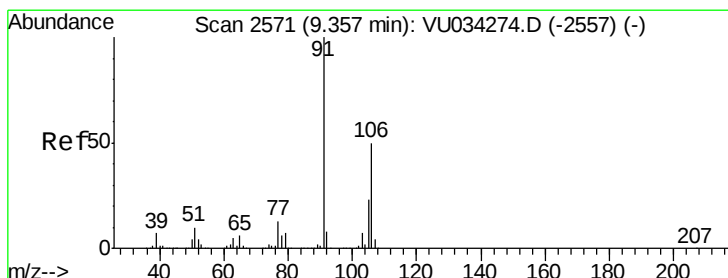
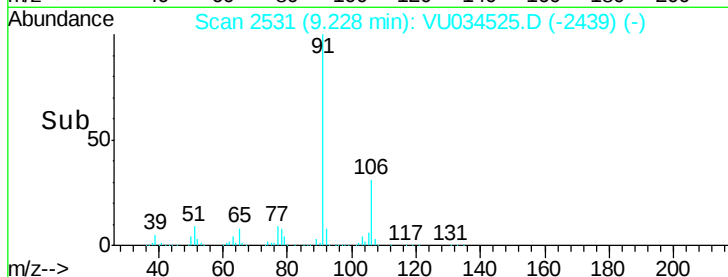
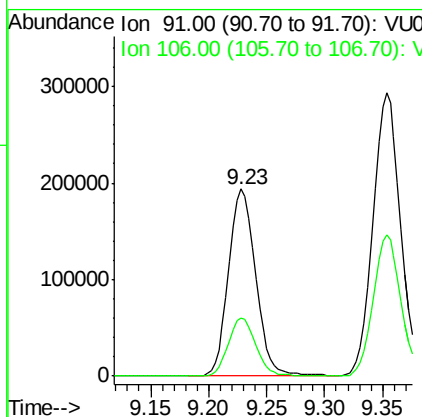
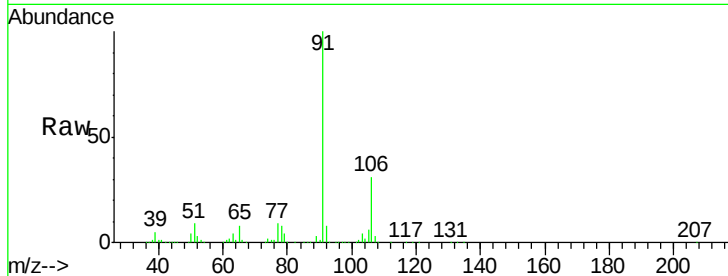
#67
Ethyl Benzene
Concen: 20.948 ug/l
RT: 9.23 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion: 91 Resp: 315168
Ion Ratio Lower Upper
91 100
106 31.3 24.8 37.2

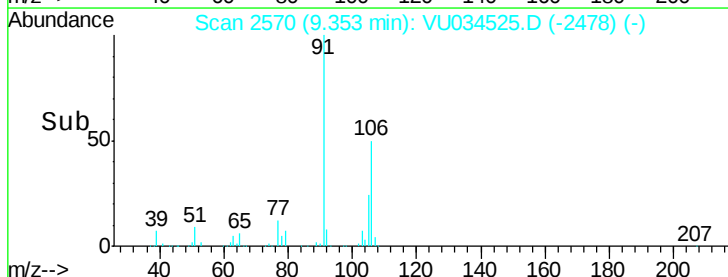
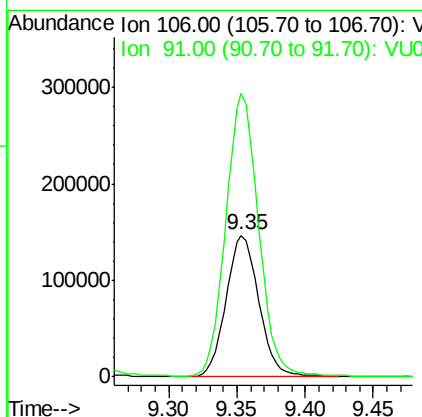
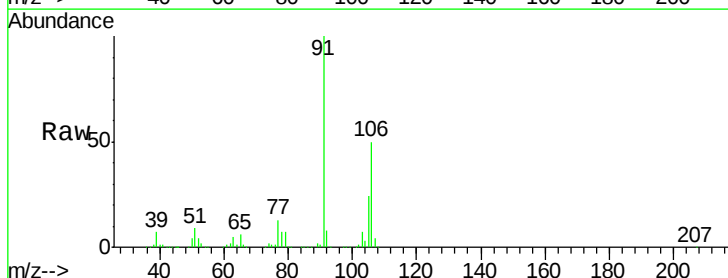
Manual Integrations
APPROVED

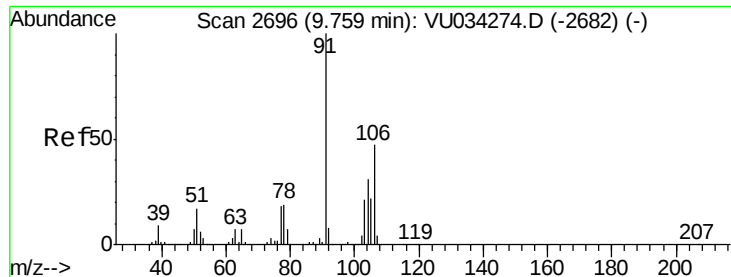
MMDadoda
9/16/2019 11:17:40 AM



#68
m/p-Xylenes
Concen: 43.052 ug/l
RT: 9.35 min Scan# 2570
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion: 106 Resp: 243907
Ion Ratio Lower Upper
106 100
91 201.7 160.1 240.1





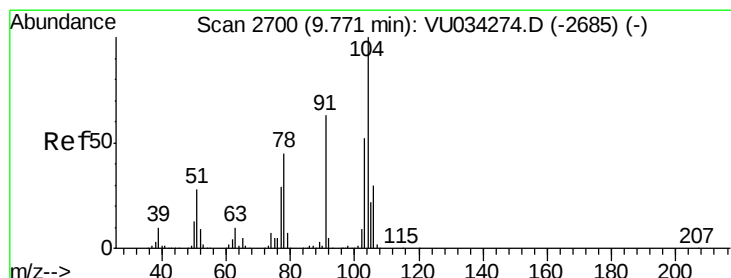
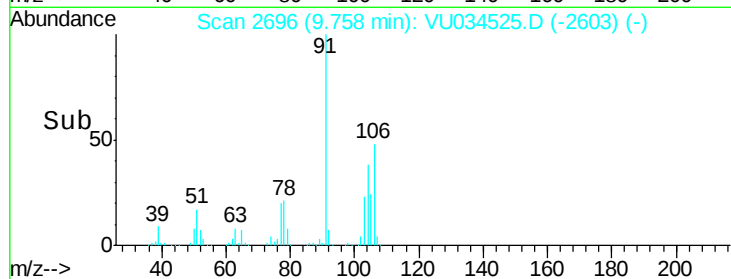
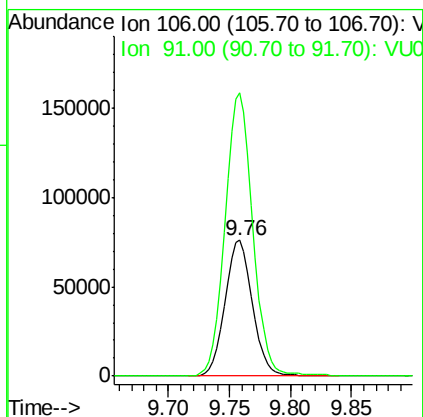
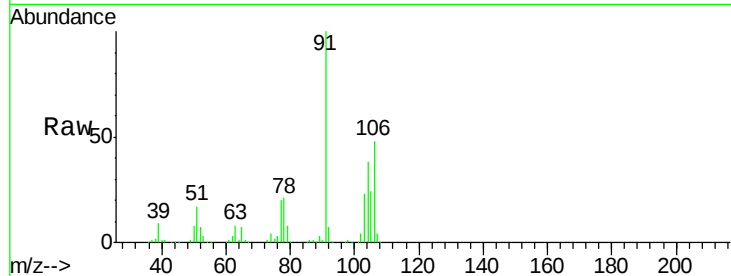
#69
o-Xylene
Concen: 21.782 ug/l
RT: 9.76 min Scan# 2696
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	120685		
91	91	209.6	105.1	315.3	

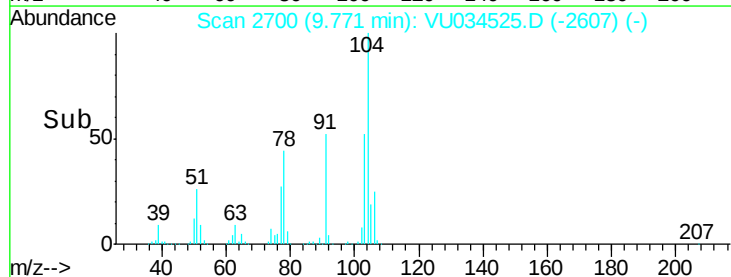
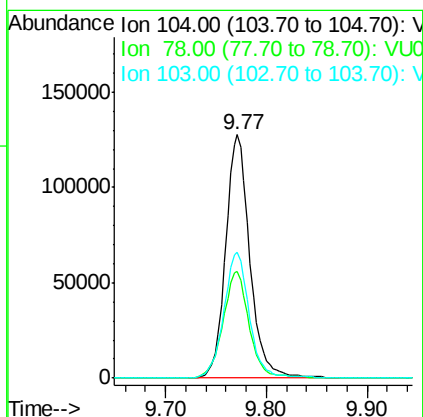
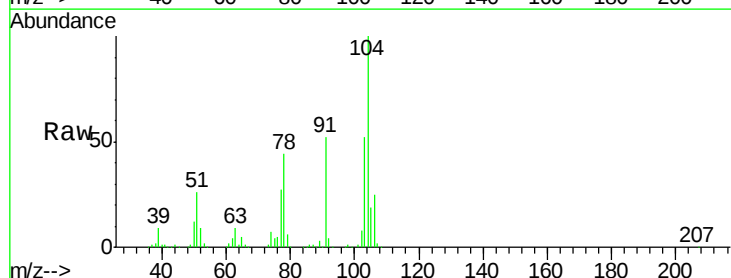
Manual Integrations
APPROVED

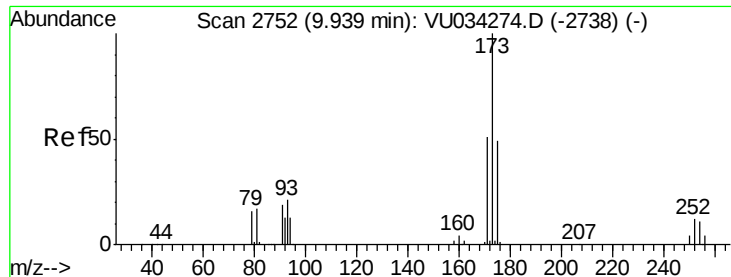
MMDadoda
9/16/2019 11:17:40 AM



#70
Styrene
Concen: 22.064 ug/l
RT: 9.77 min Scan# 2700
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	214334		
78	78	47.5	38.6	57.8	
103	103	54.2	44.2	66.4	





#71

Bromoform

Concen: 21.732 ug/l

RT: 9.94 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion:173 Resp: 66139

Ion Ratio Lower Upper

173 100

175 49.3 24.4 73.2

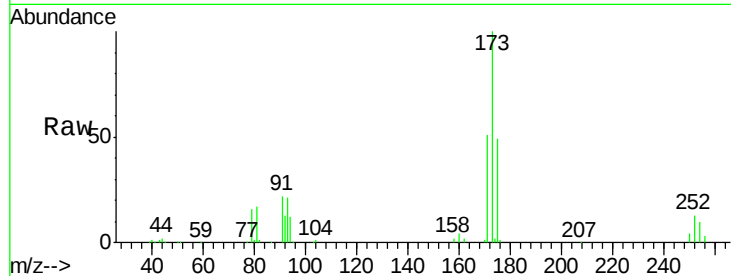
254 0.0 0.0 0.0#

Manual Integrations

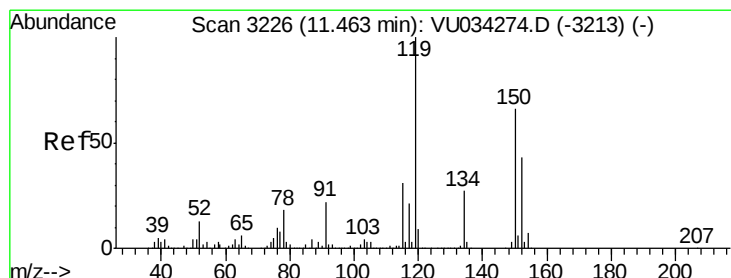
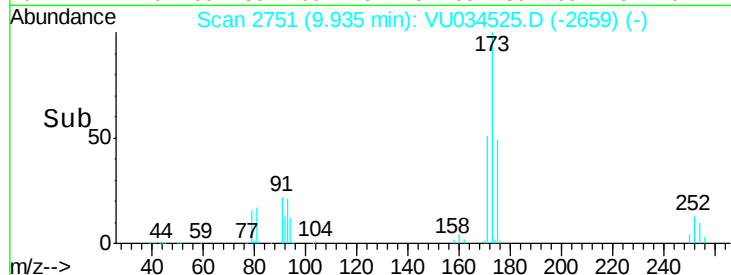
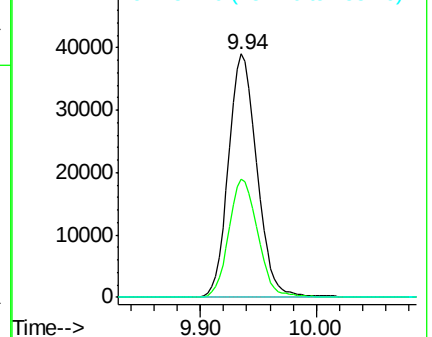
APPROVED

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9/16/2019 11:17:40 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3225

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

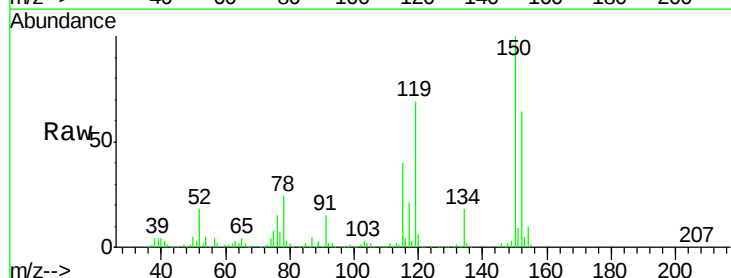
Tgt Ion:152 Resp: 242502

Ion Ratio Lower Upper

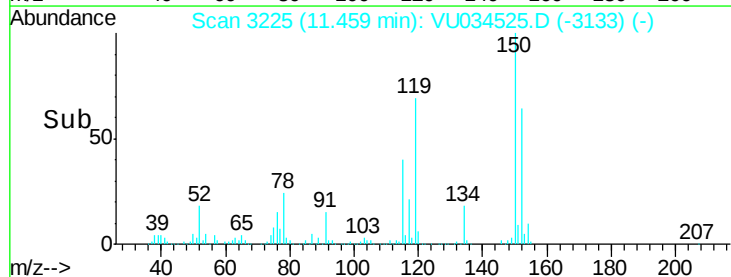
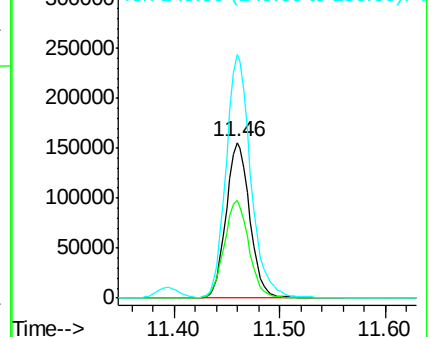
152 100

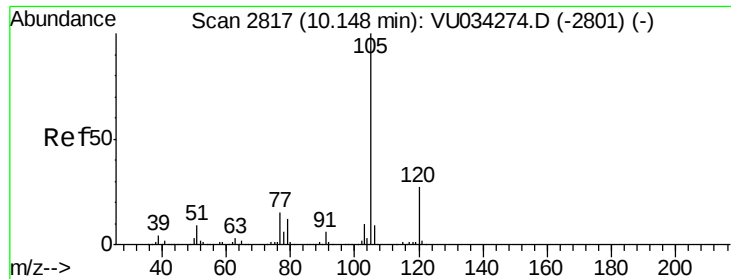
115 65.2 39.1 117.3

150 162.1 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: 21.054 ug/l

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion:105 Resp: 332259

Ion Ratio Lower Upper

105 100

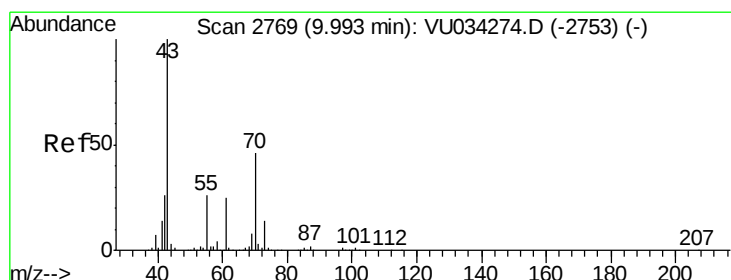
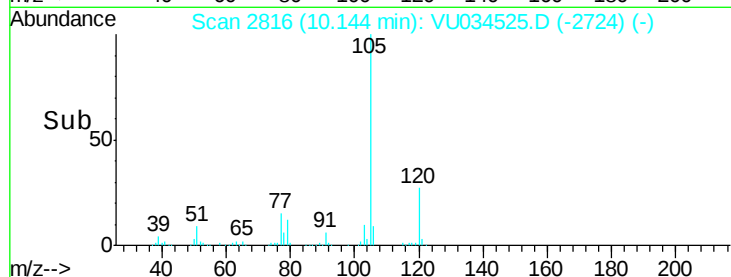
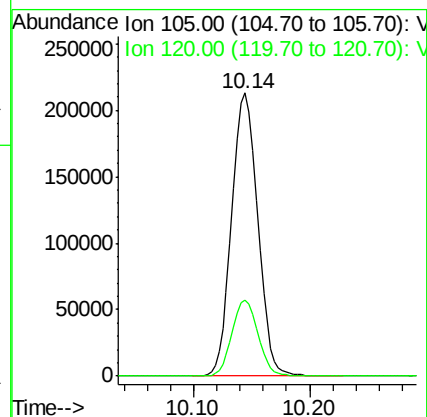
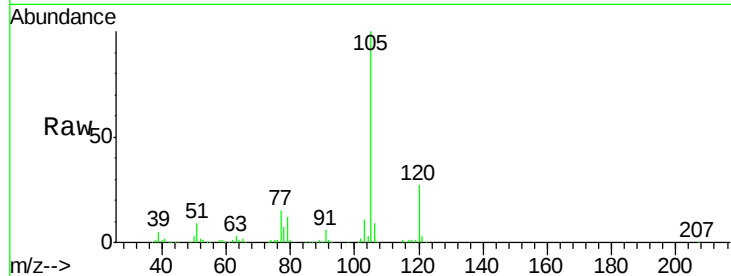
120 26.7 13.4 40.2

Manual Integrations

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MMDadoda

9/16/2019 11:17:40 AM



#74

N-ethyl acetate

Concen: 21.033 ug/l

RT: 9.99 min Scan# 2769

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Tgt Ion: 43 Resp: 133613

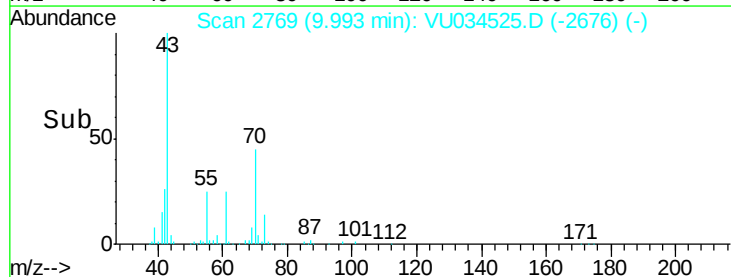
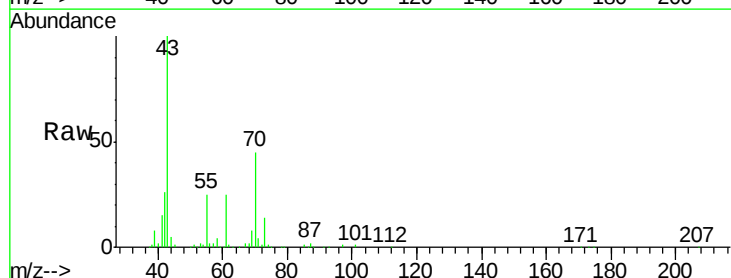
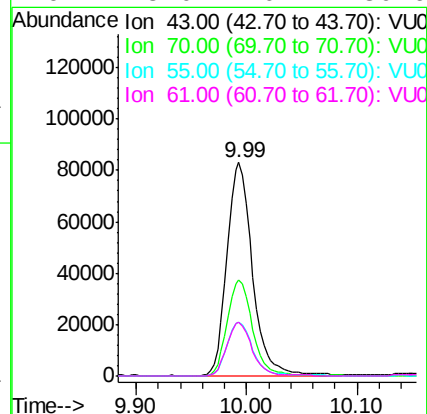
Ion Ratio Lower Upper

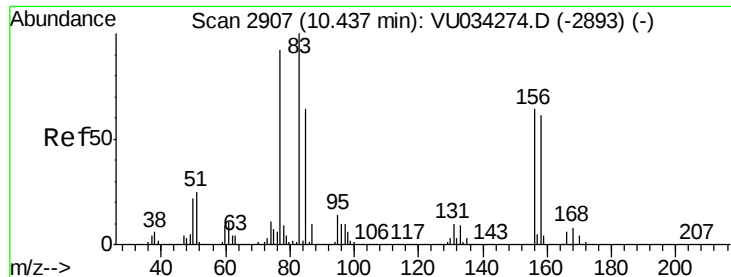
43 100

70 45.1 36.4 54.6

55 25.6 21.2 31.8

61 25.0 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 21.065 ug/l

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

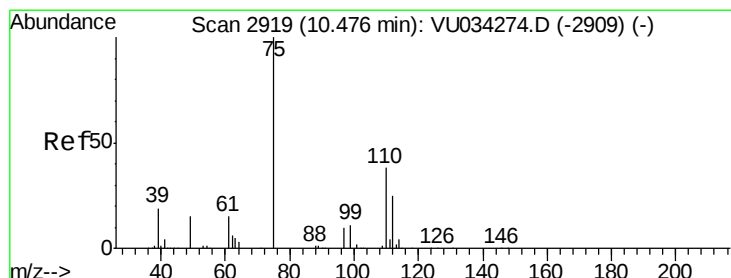
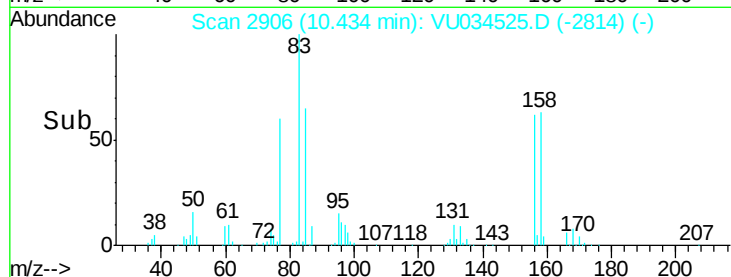
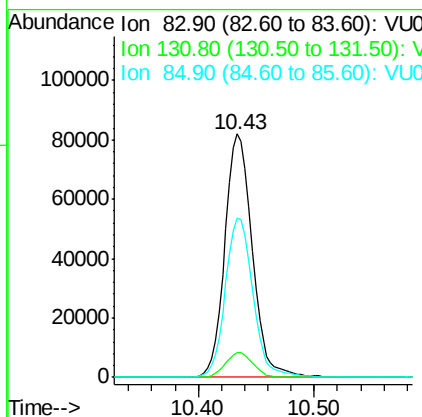
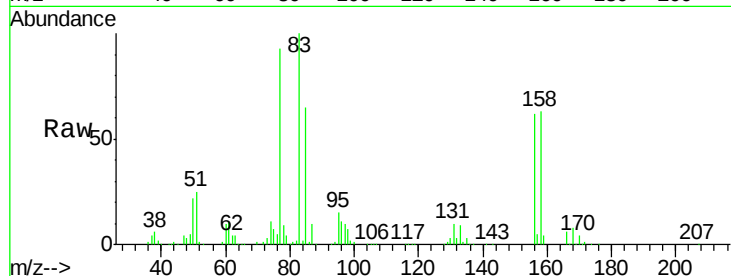
ClientSampleId :

VU0912WBS04

Tot Ion:	83	Resp:	134563
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.1	15.2
85	65.9	32.0	96.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.575 ug/l m

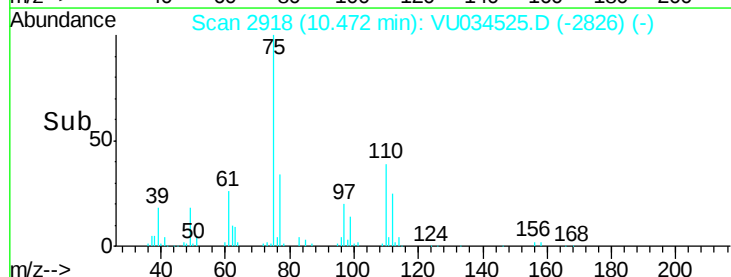
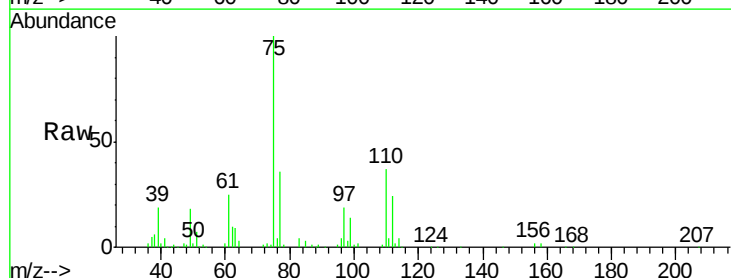
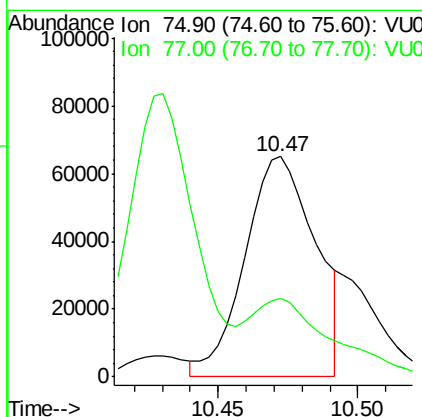
RT: 10.47 min Scan# 2918

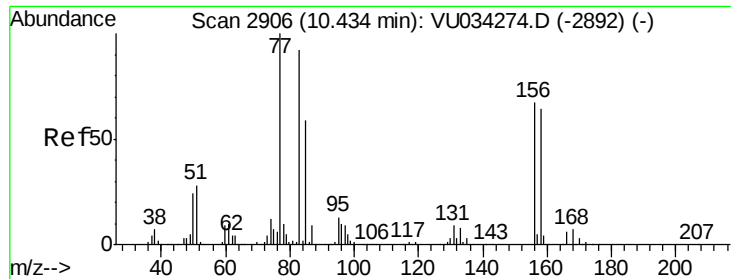
Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Tgt Ion:	75	Resp:	114205
Ion Ratio	Lower	Upper	
75	100		
77	41.7	20.8	62.2





#77

Bromobenzene

Concen: 21.006 ug/l

RT: 10.43 min Scan# 2905

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

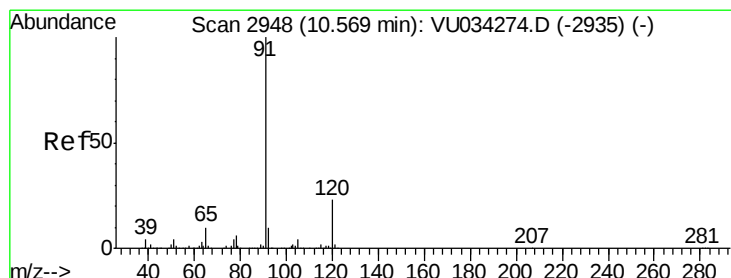
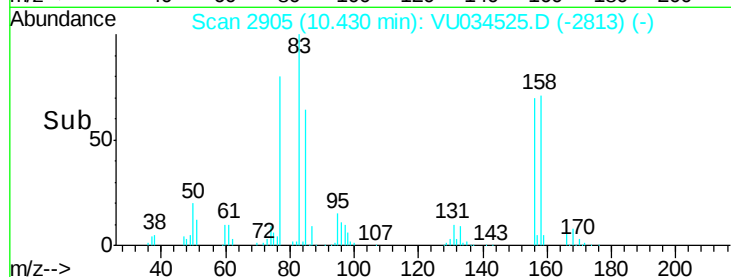
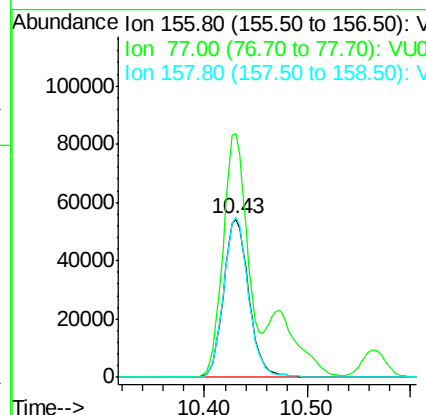
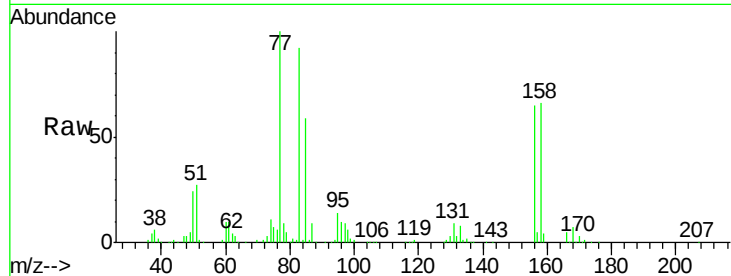
ClientSampleId :

VU0912WBS04

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	149.0	75.6	226.9	
158	99.1	48.2	144.6	

Manual Integrations
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#78

n-propylbenzene

Concen: 20.997 ug/l

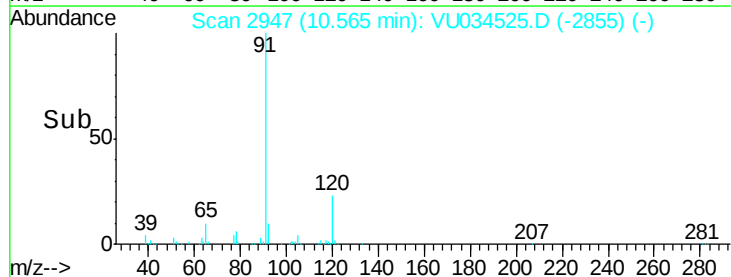
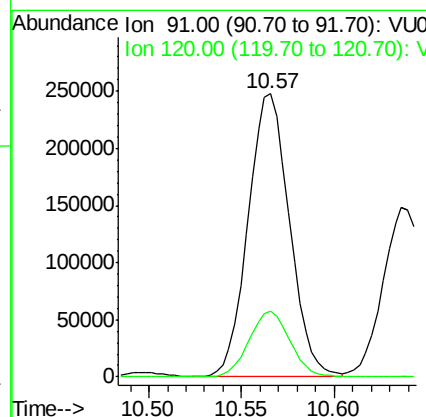
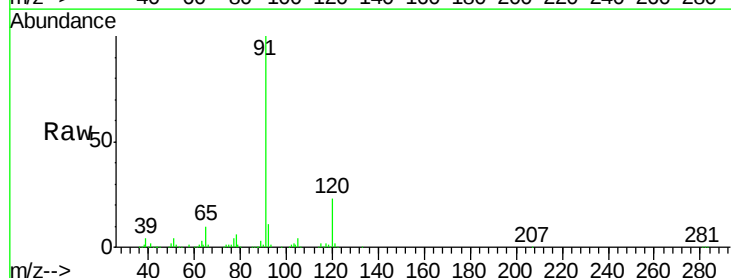
RT: 10.57 min Scan# 2947

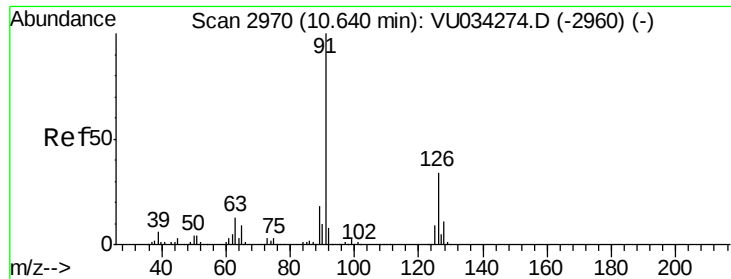
Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.2	11.7	35.0	





#79

2-Chlorotoluene

Concen: 21.078 ug/l

RT: 10.64 min Scan# 2969

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion: 91 Resp: 234401

Ion Ratio Lower Upper

91 100

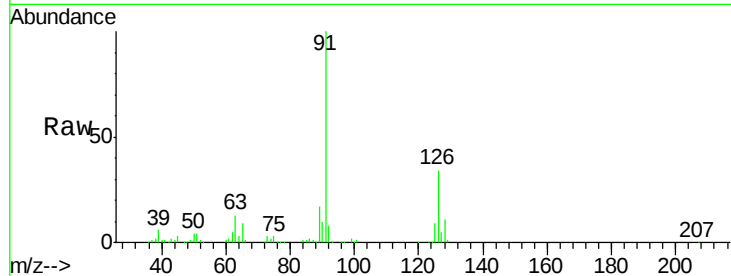
126 34.7 17.3 51.9

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VU034274.D (-2960) (-)

Ion 125.90 (125.60 to 126.60): VU034274.D (-2960) (-)

250000

200000

150000

100000

50000

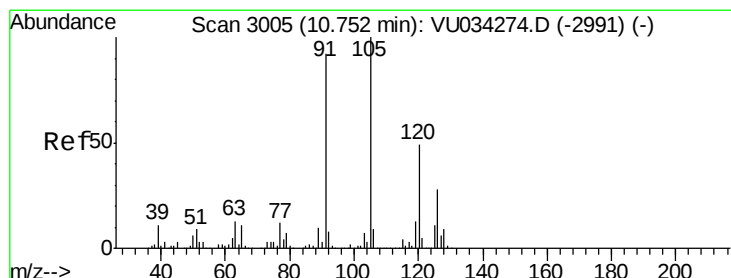
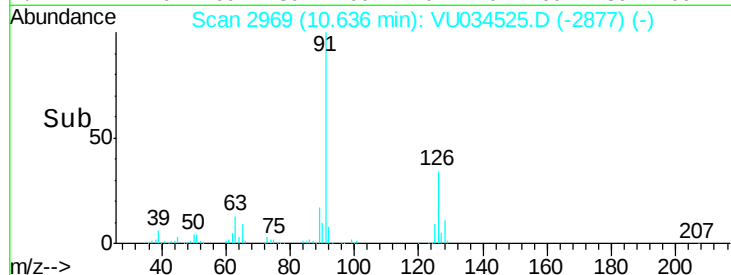
0

10.60

10.65

10.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.717 ug/l

RT: 10.75 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VU034525.D

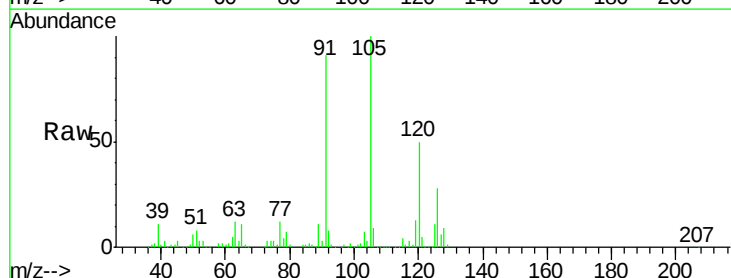
Acq: 12 Sep 2019 17:14

Tgt Ion: 105 Resp: 286633

Ion Ratio Lower Upper

105 100

120 49.9 24.9 74.7



Abundance Ion 105.00 (104.70 to 105.70): VU034274.D (-2991) (-)

Ion 120.00 (119.70 to 120.70): VU034274.D (-2991) (-)

200000

150000

100000

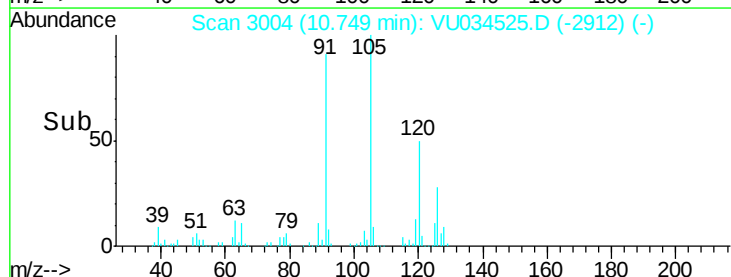
50000

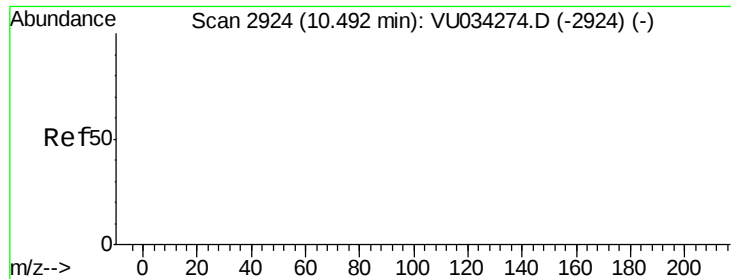
0

10.70

10.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 19.961 ug/l m

RT: 10.49 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VU034525.D

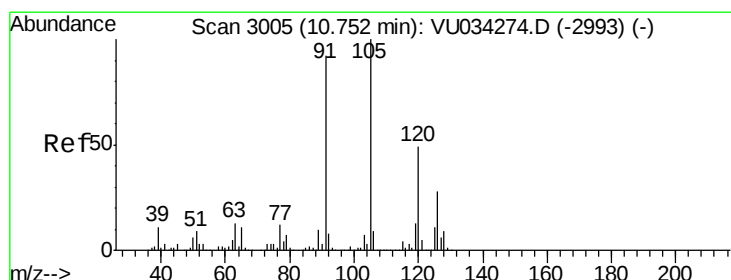
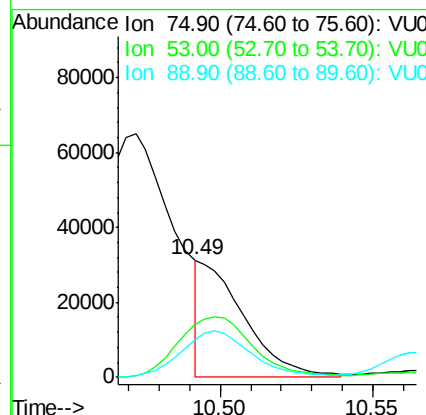
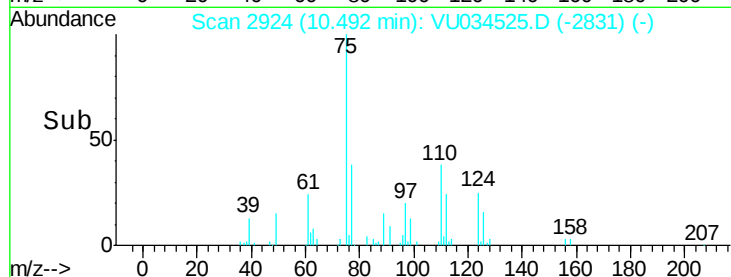
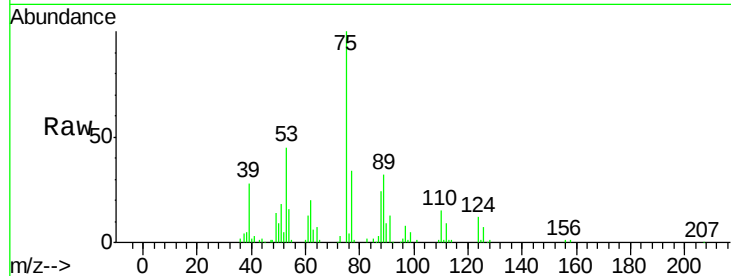
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

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

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.901 ug/l

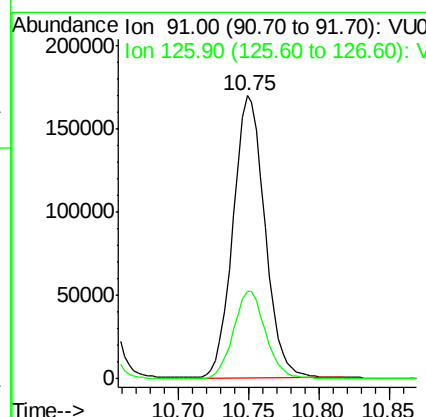
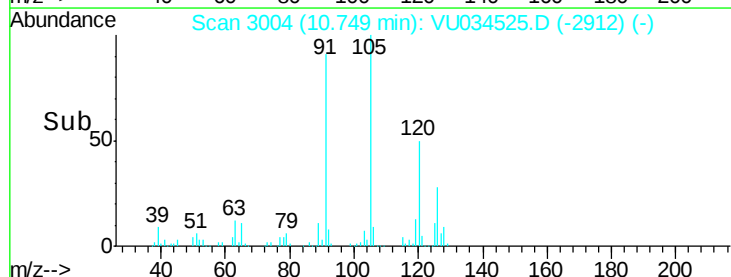
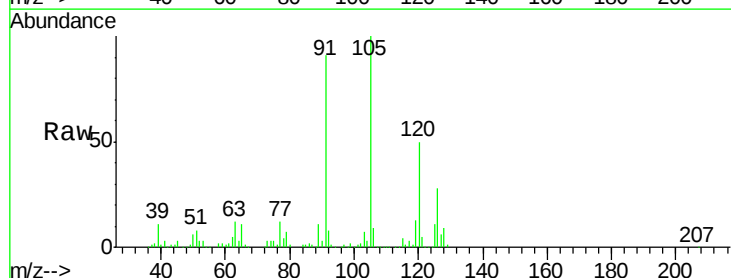
RT: 10.75 min Scan# 3004

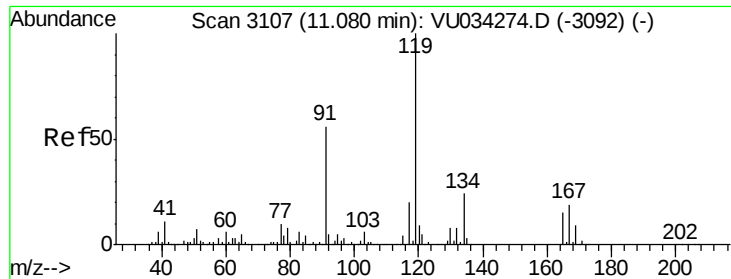
Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.3	45.8





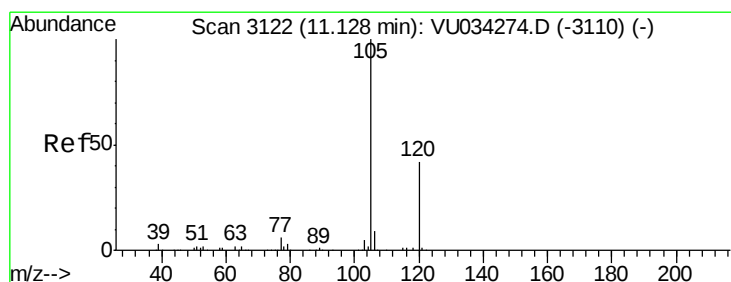
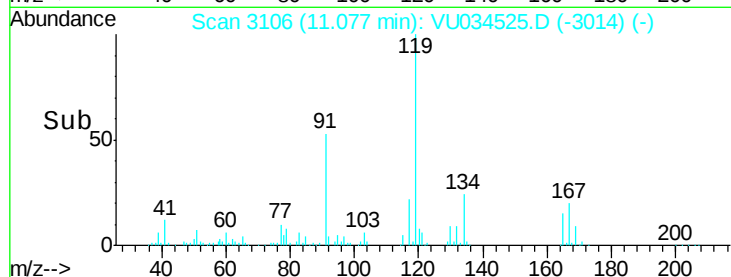
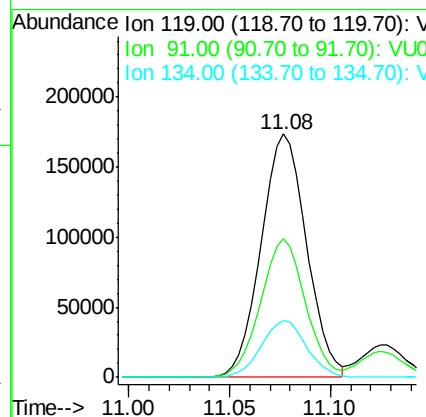
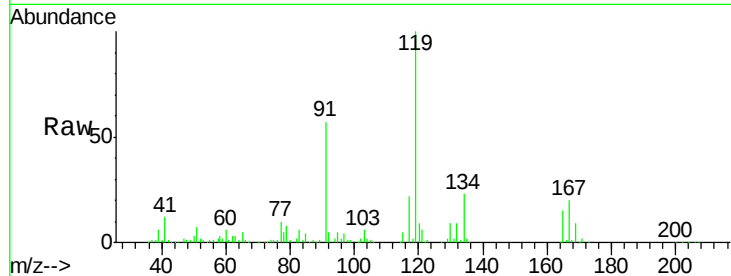
#83
tert-Butylbenzene
Concen: 20.648 ug/l
RT: 11.08 min Scan# 3106
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	Ratio	Resp	Lower	Upper
119	100	272631		
91	56.2		27.8	83.4
134	23.4		11.7	35.0

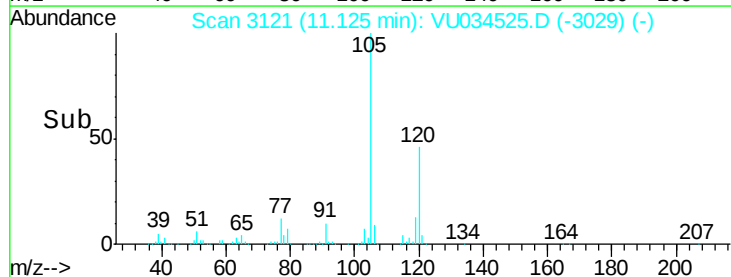
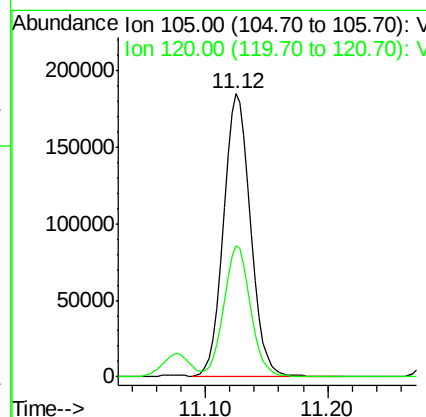
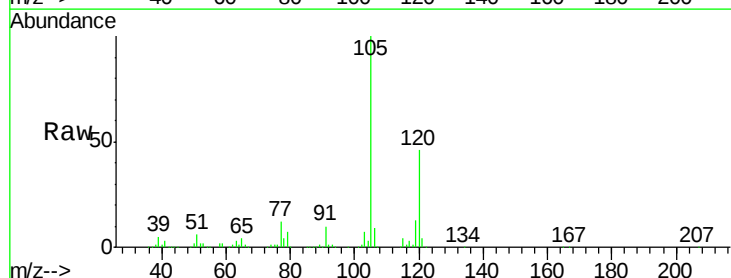
Manual Integrations
APPROVED

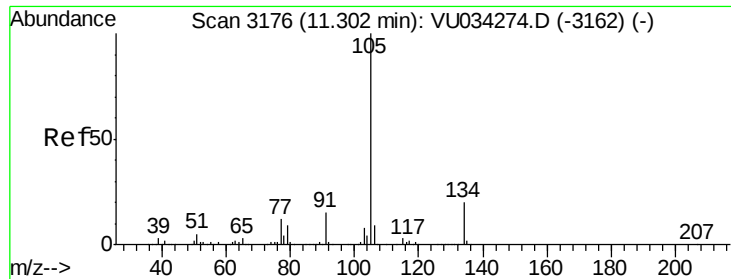
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#84
1,2,4-Trimethylbenzene
Concen: 21.562 ug/l
RT: 11.12 min Scan# 3121
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	286471		
120	46.1		22.9	68.8





#85

sec-Butylbenzene

Concen: 21.274 ug/l

RT: 11.30 min Scan# 3176

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

ClientSampleId :

VU0912WBS04

Tot Ion:105 Resp: 331610

Ion Ratio Lower Upper

105 100

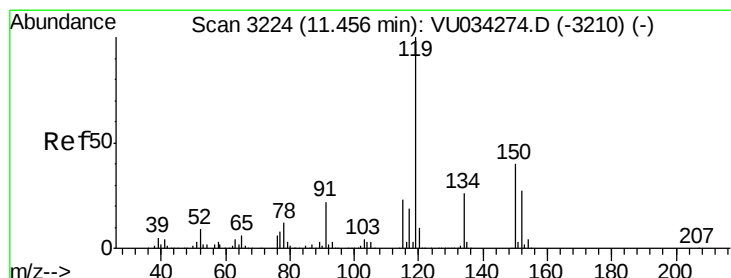
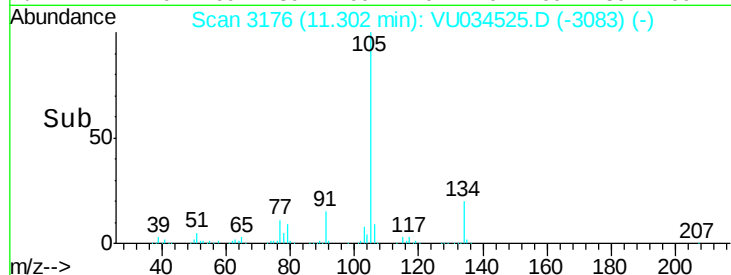
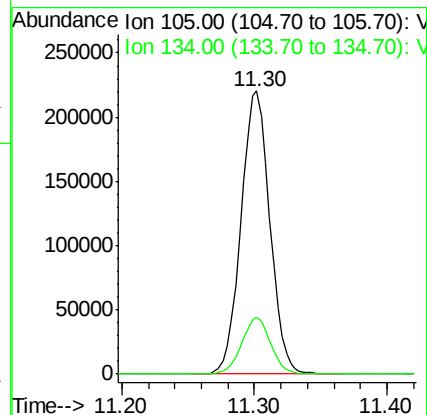
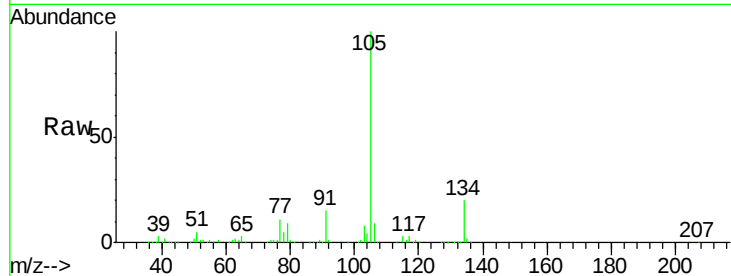
134 20.2 10.1 30.3

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 21.305 ug/l

RT: 11.45 min Scan# 3223

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

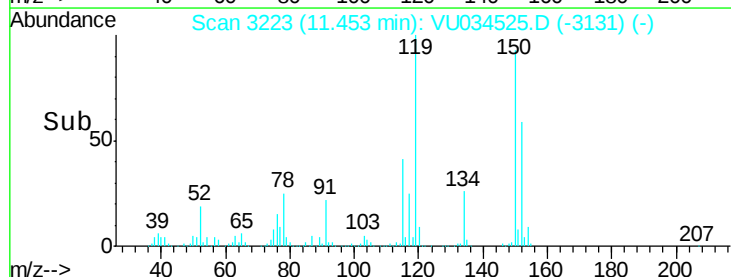
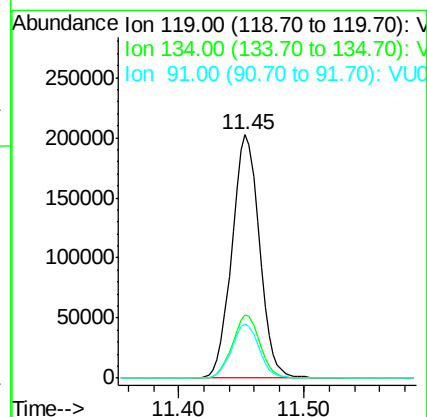
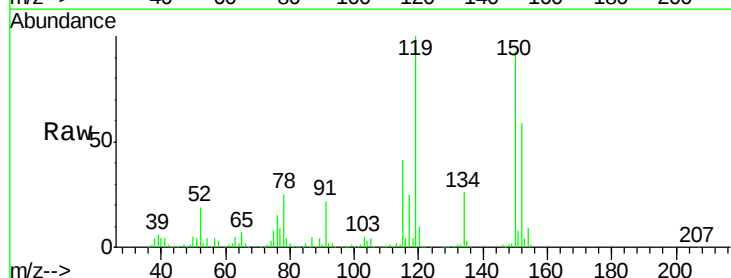
Tgt Ion:119 Resp: 306523

Ion Ratio Lower Upper

119 100

134 26.3 13.3 39.8

91 22.2 11.2 33.6





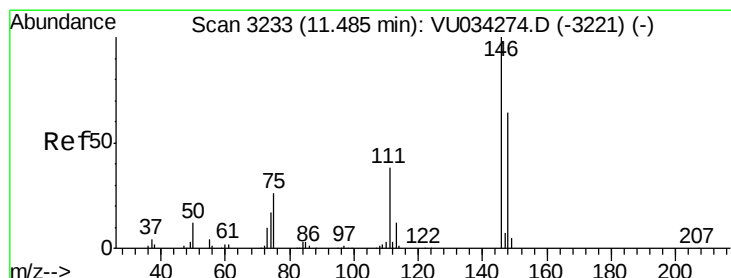
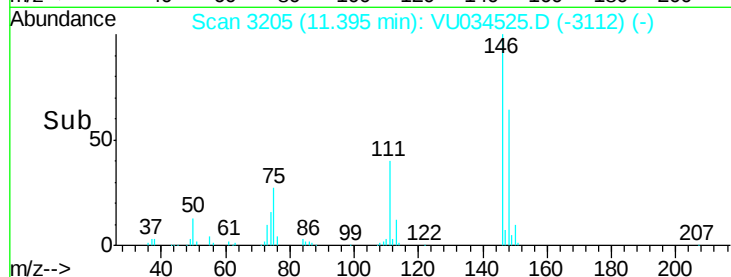
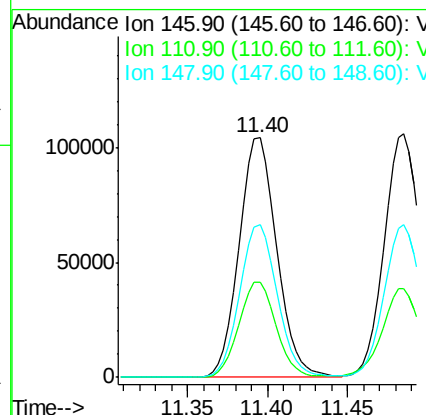
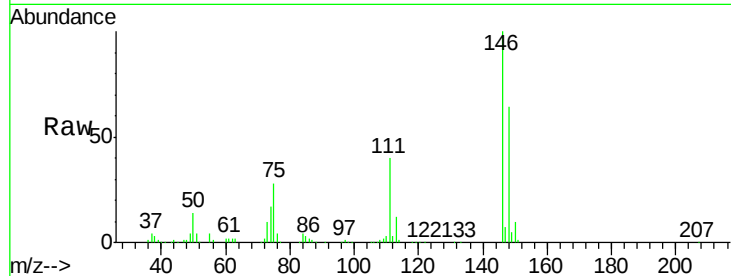
#87
 1,3-Dichlorobenzene
 Concen: 20.784 ug/l
 RT: 11.40 min Scan# 3205
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS04

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.5	58.5
148	63.6	32.1	96.3

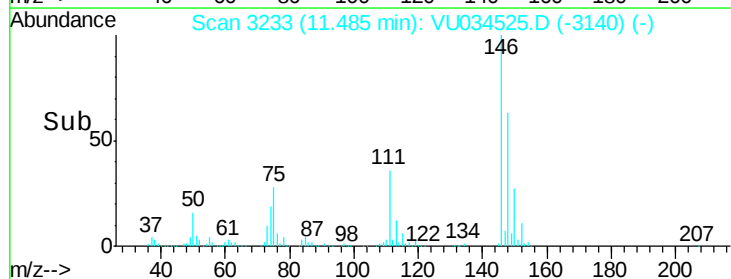
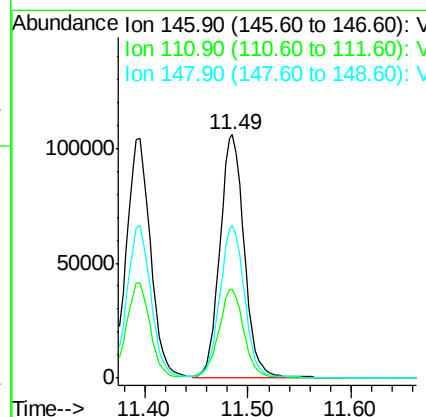
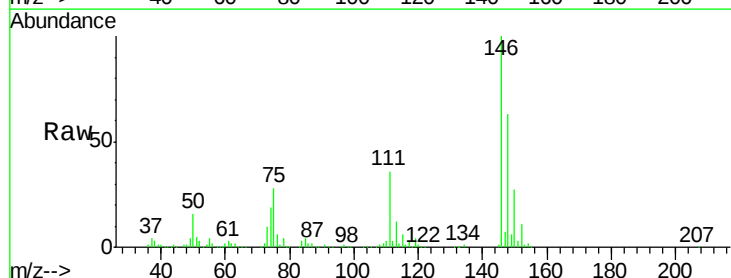
Manual Integrations
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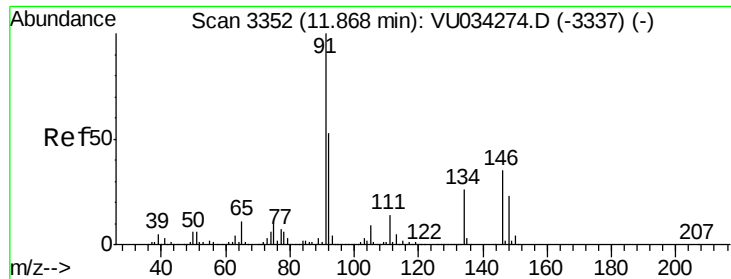
MMDadoda
 9/16/2019 11:17:40 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.523 ug/l
 RT: 11.49 min Scan# 3233
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.1	57.3
148	62.5	32.0	96.0





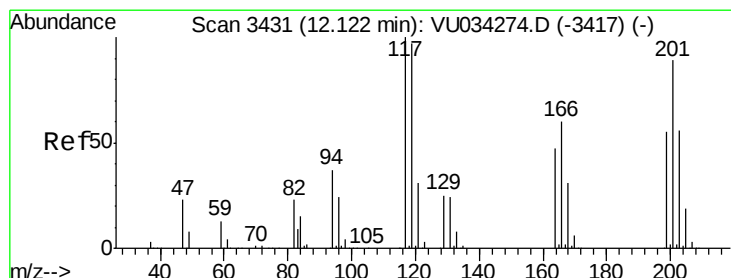
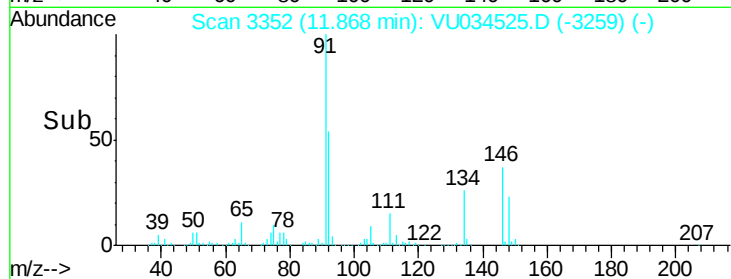
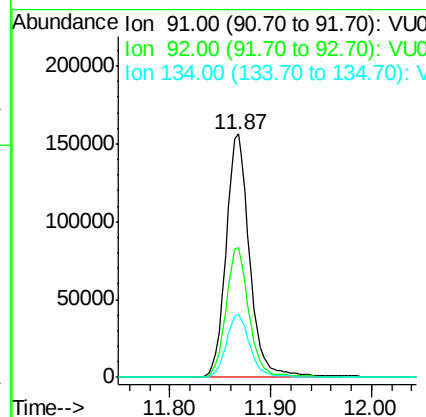
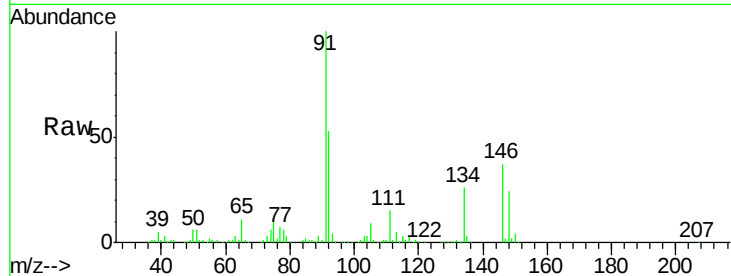
#89
n-Butylbenzene
Concen: 20.443 ug/l
RT: 11.87 min Scan# 3352
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Instrument :
MSVOA_U
ClientSampleId :
VU0912WBS04

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.5	79.4
134	25.8	13.2	39.6

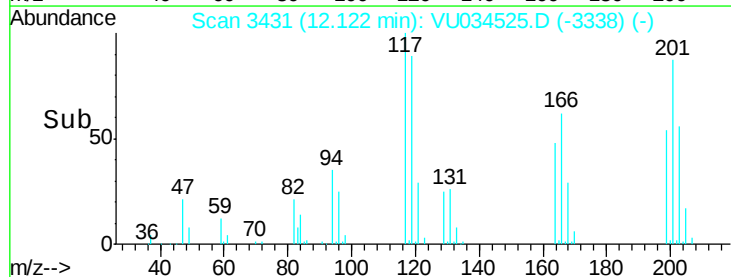
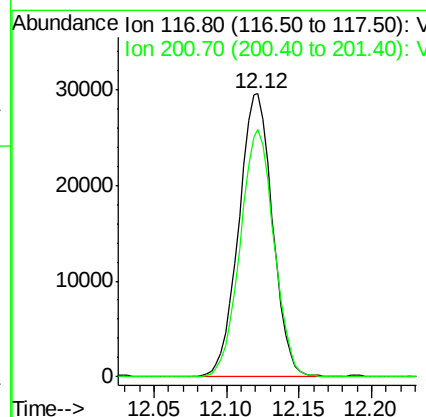
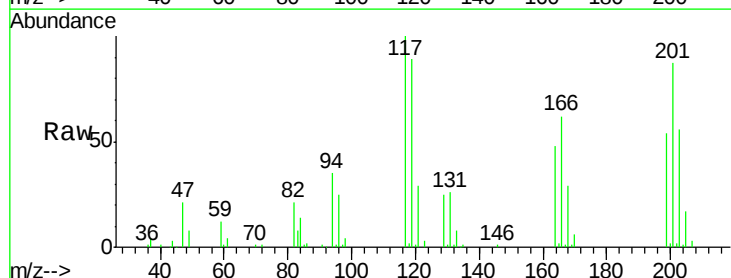
Manual Integrations
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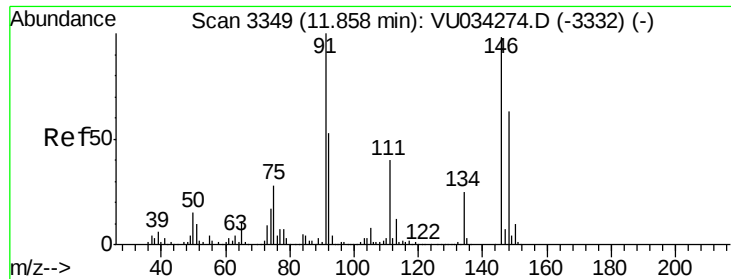
MMDadoda
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#90
Hexachloroethane
Concen: 20.779 ug/l
RT: 12.12 min Scan# 3431
Delta R.T. -0.00 min
Lab File: VU034525.D
Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Lower	Upper
117	100		
201	86.9	44.1	132.4





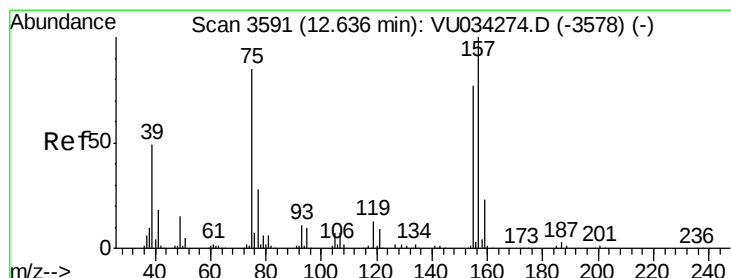
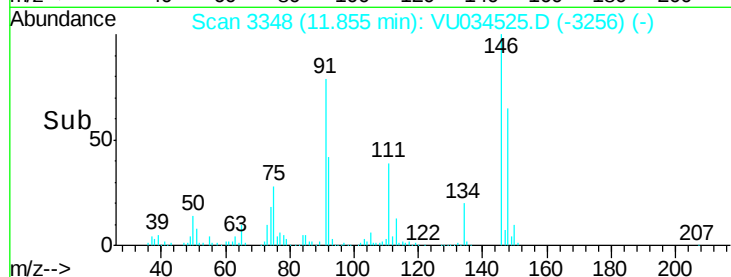
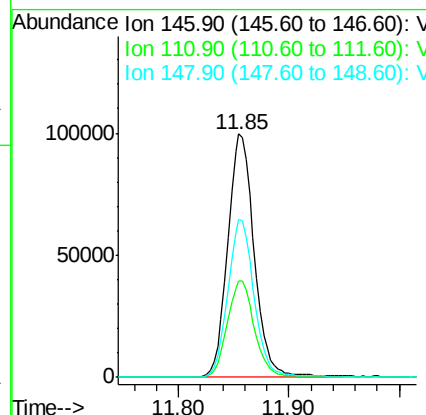
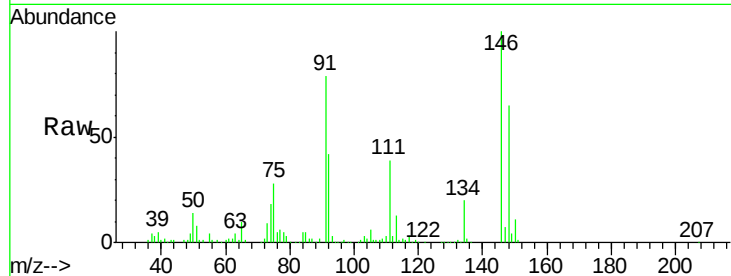
#91
 1,2-Dichlorobenzene
 Concen: 21.040 ug/l
 RT: 11.85 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS04

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.0	60.0
148	64.3	31.6	94.8

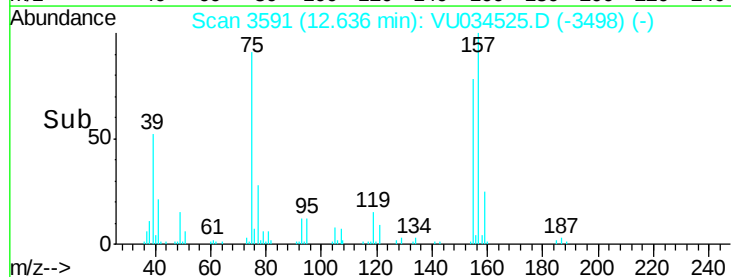
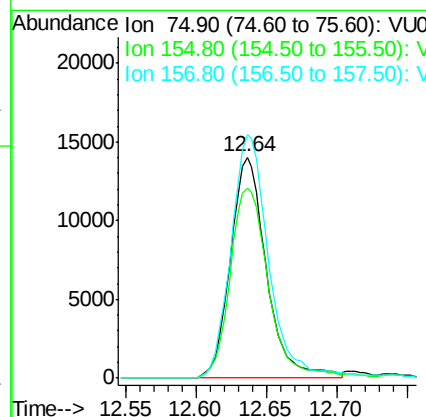
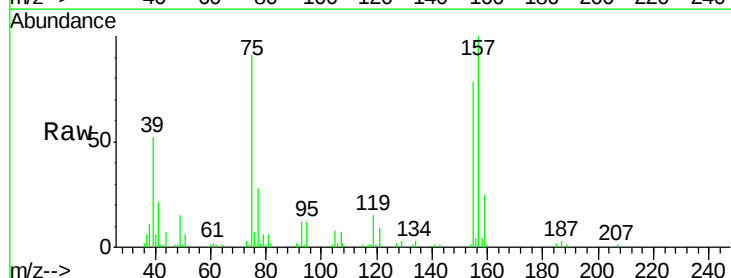
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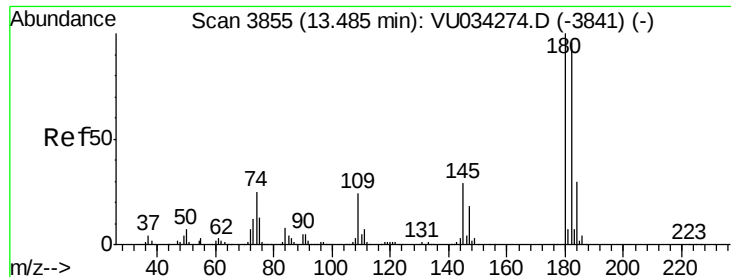
MMDadoda
 9/16/2019 11:17:40 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.392 ug/l
 RT: 12.64 min Scan# 3591
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.8	44.6	134.0
157	112.3	58.2	174.6





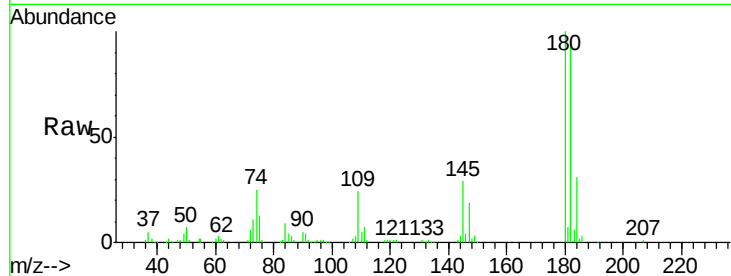
#93
 1,2,4-Trichlorobenzene
 Concen: 19.866 ug/l
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0912WBS04

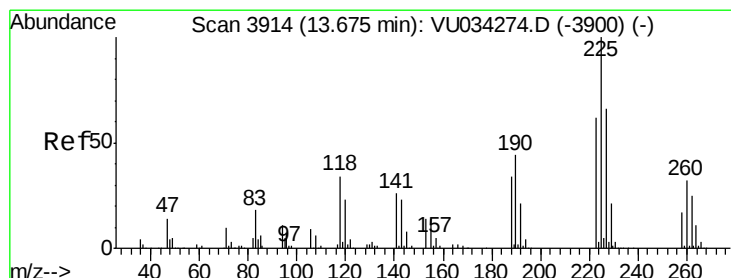
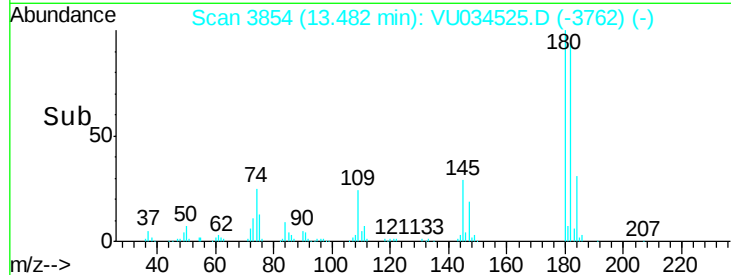
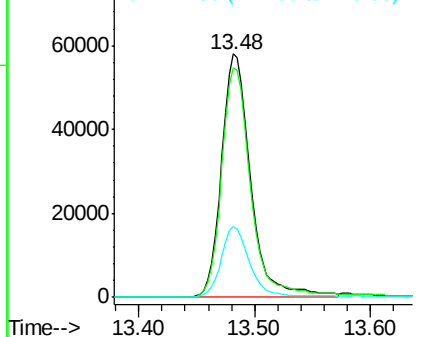
Tot Ion	Ratio	Resp	Lower	Upper
180	100	101191		
182	94.5	47.9	143.8	
145	27.9	14.4	43.0	

Manual Integrations
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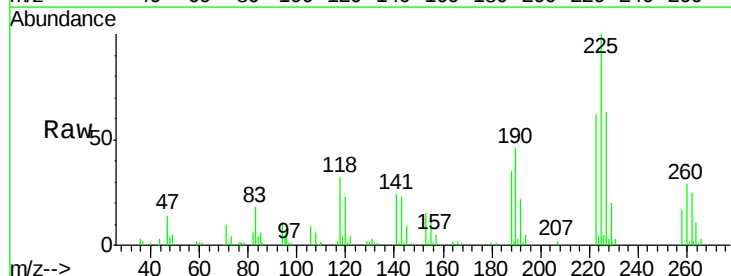


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

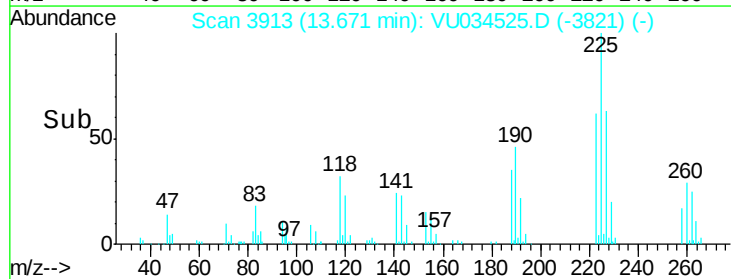
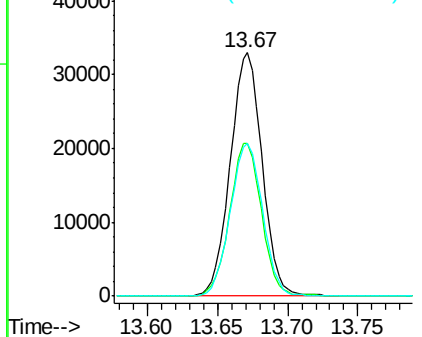


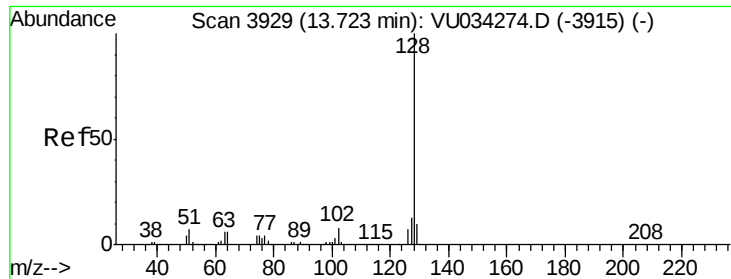
#94
 Hexachlorobutadiene
 Concen: 18.853 ug/l
 RT: 13.67 min Scan# 3913
 Delta R.T. -0.00 min
 Lab File: VU034525.D
 Acq: 12 Sep 2019 17:14

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	52188		
223	62.8	31.6	94.7	
227	63.7	32.3	96.8	



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 18.963 ug/l

RT: 13.72 min Scan# 3929

Delta R.T. -0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Instrument :

MSVOA_U

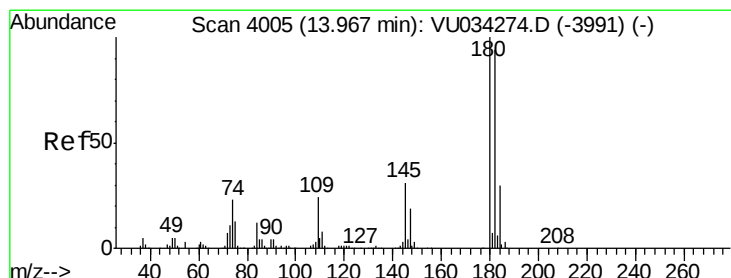
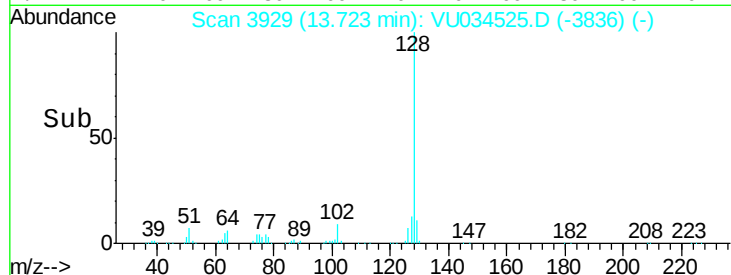
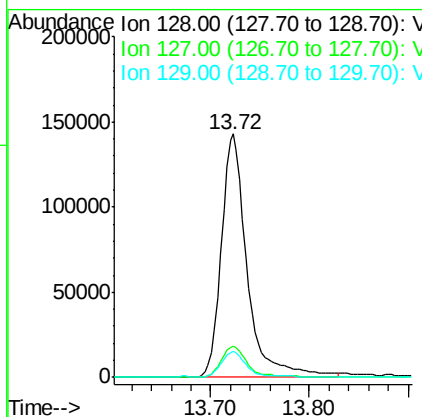
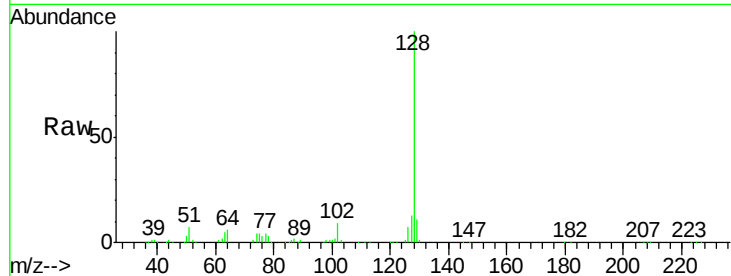
ClientSampleId :

VU0912WBS04

Tot Ion:	128	Resp:	263263
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.6	15.8
129	10.3	8.4	12.6

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#96

1,2,3-Trichlorobenzene

Concen: 20.080 ug/l

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU034525.D

Acq: 12 Sep 2019 17:14

Tgt Ion:	180	Resp:	102073
Ion Ratio	Lower	Upper	
180	100		
182	96.6	48.4	145.0
145	29.6	15.4	46.4

