

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121318\
 Data File : VU028645.D
 Acq On : 12 Dec 2018 12:21
 Operator : MD/SY
 Sample : VU1213WBSD02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBSD02

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 9:29:46 AM

Quant Time: Dec 13 01:19:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	99135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	175575	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	158826	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	75930	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.30	65	75761	50.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.16%	
35) Dibromofluoromethane	4.88	113	56993	51.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.16%	
50) Toluene-d8	7.56	98	222078	50.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.62%	
62) 4-Bromofluorobenzene	10.30	95	80585	49.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	23590	17.753	ug/l	97
3) Chloromethane	1.33	50	42075	17.223	ug/l	98
4) Vinyl Chloride	1.40	62	32741	18.571	ug/l	100
5) Bromomethane	1.60	94	14929	21.022	ug/l	98
6) Chloroethane	1.68	64	18352	18.388	ug/l	97
7) Trichlorofluoromethane	1.88	101	33552	18.089	ug/l	99
8) Diethyl Ether	2.10	74	15703	18.095	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.28	101	20315	18.313	ug/l	97
10) Methyl Iodide	2.41	142	20743	23.831	ug/l	99
11) Tert butyl alcohol	2.83	59	31253	92.722	ug/l	99
12) 1,1-Dichloroethene	2.28	96	19616	17.772	ug/l	99
13) Acrolein	2.19	56	23810	88.611	ug/l	98
14) Allyl chloride	2.59	41	44978	17.226	ug/l	99
15) Acrylonitrile	2.94	53	88710	94.797	ug/l	99
16) Acetone	2.32	43	77647	78.653	ug/l	97
17) Carbon Disulfide	2.47	76	67887	17.073	ug/l	99
18) Methyl Acetate	2.61	43	55480	21.679	ug/l	100
19) Methyl tert-butyl Ether	3.00	73	77506	18.523	ug/l	99
20) Methylene Chloride	2.70	84	25313	17.394	ug/l	96
21) trans-1,2-Dichloroethene	2.98	96	22285	17.932	ug/l	96
22) Diisopropyl ether	3.57	45	94207	18.553	ug/l	97
23) Vinyl Acetate	3.52	43	384783	91.870	ug/l	100
24) 1,1-Dichloroethane	3.44	63	48031	18.070	ug/l	99
25) 2-Butanone	4.26	43	121644	90.165	ug/l	99
26) 2,2-Dichloropropane	4.22	77	37663	17.883	ug/l	98
27) cis-1,2-Dichloroethene	4.22	96	25601	18.201	ug/l	99
28) Bromochloromethane	4.55	49	24052	19.905	ug/l	97
29) Tetrahydrofuran	4.64	42	82357	95.050	ug/l	99
30) Chloroform	4.67	83	43747	18.884	ug/l	99
31) Cyclohexane	4.99	56	48619	17.978	ug/l	97
32) 1,1,1-Trichloroethane	4.91	97	35550	18.477	ug/l	98
36) 1,1-Dichloropropene	5.13	75	33291	17.327	ug/l	99
37) Ethyl Acetate	4.38	43	44166	17.783	ug/l	99
38) Carbon Tetrachloride	5.13	117	28297	18.273	ug/l	93

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	39620	16.903	ug/l	98
40) Benzene	5.39	78	104367	18.444	ug/l	97
41) Methacrylonitrile	4.54	41	25887	19.032	ug/l	99
42) 1,2-Dichloroethane	5.40	62	35396	17.870	ug/l	99
43) Isopropyl Acetate	5.55	43	73590	18.733	ug/l	99
44) Trichloroethene	6.18	130	22597	17.960	ug/l	99
45) 1,2-Dichloropropane	6.43	63	29097	18.286	ug/l	95
46) Dibromomethane	6.56	93	17937	18.998	ug/l	99
47) Bromodichloromethane	6.76	83	33135	18.035	ug/l	100
48) Methyl methacrylate	6.62	41	36099	18.478	ug/l	98
49) 1,4-Dioxane	6.61	88	11015	357.087	ug/l	96
51) 4-Methyl-2-Pentanone	7.46	43	231889	93.591	ug/l	100
52) Toluene	7.64	92	59121	17.753	ug/l	96
53) t-1,3-Dichloropropene	7.88	75	38584	17.633	ug/l	99
54) cis-1,3-Dichloropropene	7.27	75	42822	18.038	ug/l	97
55) 1,1,2-Trichloroethane	8.07	97	25117	19.080	ug/l	96
56) Ethyl methacrylate	8.02	69	42786	18.980	ug/l	98
57) 1,3-Dichloropropane	8.24	76	45157	18.479	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.12	63	120663	104.501	ug/l	99
59) 2-Hexanone	8.36	43	176328	89.788	ug/l	100
60) Dibromochloromethane	8.48	129	23003	17.848	ug/l	98
61) 1,2-Dibromoethane	8.58	107	26306	19.056	ug/l	99
64) Tetrachloroethene	8.22	164	19186	18.110	ug/l	96
65) Chlorobenzene	9.12	112	62828	18.564	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.21	131	21598	19.984	ug/l	98
67) Ethyl Benzene	9.25	91	112909	18.148	ug/l	99
68) m/p-Xylenes	9.37	106	84217	37.200	ug/l	100
69) o-Xylene	9.78	106	41468	18.849	ug/l	99
70) Styrene	9.79	104	67193	18.455	ug/l	98
71) Bromoform	9.96	173	18047	19.629	ug/l #	99
73) Isopropylbenzene	10.16	105	107778	18.498	ug/l	99
74) N-amyl acetate	10.01	43	64800	19.281	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	44397	19.836	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	38608m	19.912	ug/l	
77) Bromobenzene	10.45	156	26136	19.180	ug/l	98
78) n-propylbenzene	10.58	91	132051	18.240	ug/l	99
79) 2-Chlorotoluene	10.66	91	79518	19.068	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	90007	18.662	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.51	75	16664m	21.434	ug/l	
82) 4-Chlorotoluene	10.77	91	89838	18.179	ug/l	100
83) tert-Butylbenzene	11.10	119	88413	19.019	ug/l	100
84) 1,2,4-Trimethylbenzene	11.15	105	92017	18.513	ug/l	99
85) sec-Butylbenzene	11.32	105	108538	18.175	ug/l	99
86) p-Isopropyltoluene	11.48	119	90816	17.902	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	46478	18.064	ug/l	99
88) 1,4-Dichlorobenzene	11.50	146	47470	17.832	ug/l	100
89) n-Butylbenzene	11.89	91	84384	16.436	ug/l	100
90) Hexachloroethane	12.14	117	14744	19.229	ug/l	95
91) 1,2-Dichlorobenzene	11.88	146	48050	18.669	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.66	75	9760	20.142	ug/l	99

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ClientSampleId :
VU1213WBSD02

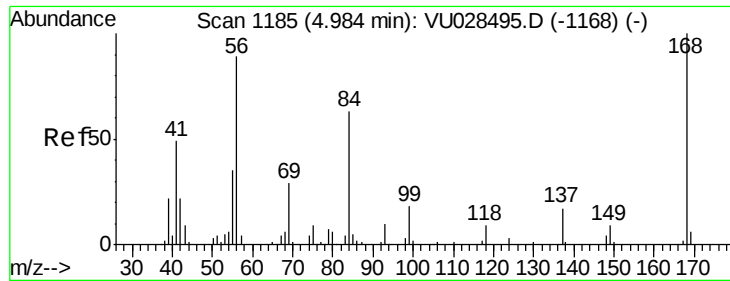
Manual Integrations
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Quant Title : SW846 8260
QLast Update : Fri Dec 07 00:39:42 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	29715	17.362	ug/l	99
94) Hexachlorobutadiene	13.69	225	14248	16.900	ug/l	96
95) Naphthalene	13.74	128	107271	17.369	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	31243	17.844	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBSD02

Tot Ion:168 Resp: 99135

Ion Ratio Lower Upper

168 100

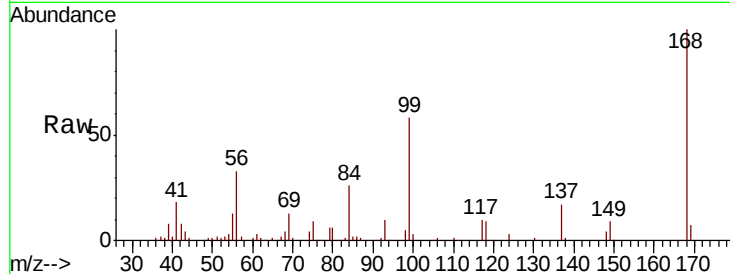
99 58.0 46.6 69.8

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

50000

40000

30000

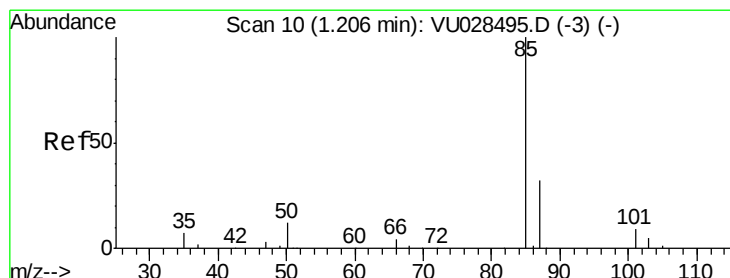
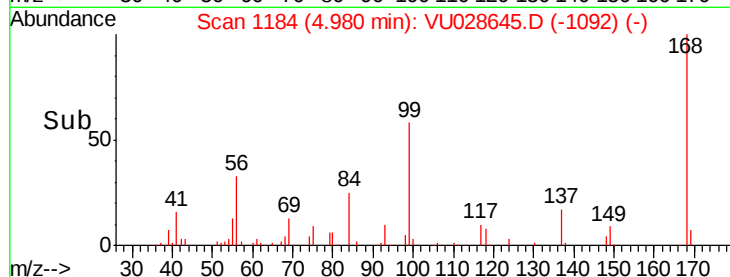
20000

10000

0

4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 17.753 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028645.D

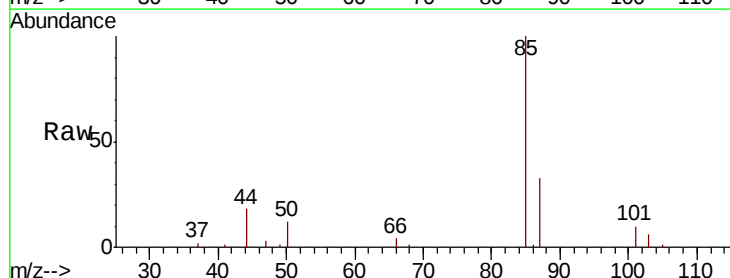
Acq: 12 Dec 2018 12:21

Tgt Ion: 85 Resp: 23590

Ion Ratio Lower Upper

85 100

87 33.3 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VU028495.D (-3) (-)

Ion 86.90 (86.60 to 87.60): VU028495.D (-3) (-)

1.21

25000

20000

15000

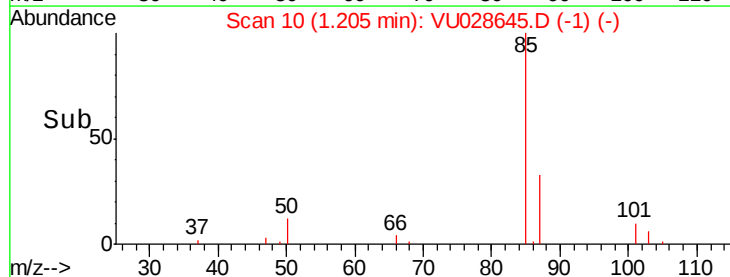
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5000

0

1.20 1.25

Time-->





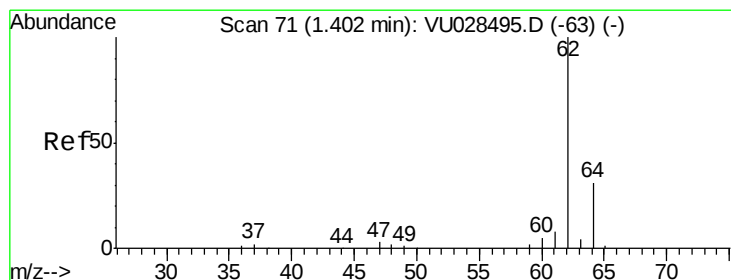
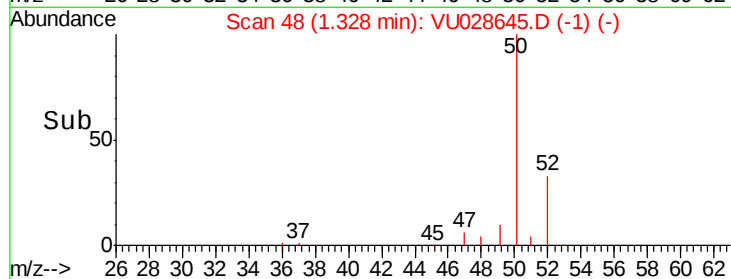
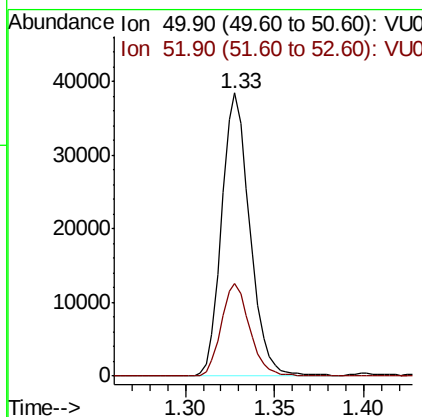
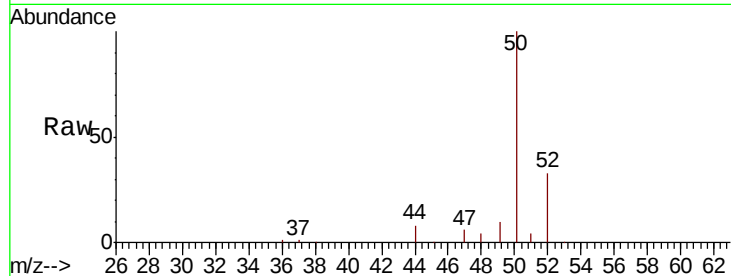
#3
Chloromethane
Concen: 17.223 ug/l
RT: 1.33 min Scan# 48
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion: 50 Resp: 42075
Ion Ratio Lower Upper
50 100
52 32.8 25.5 38.3

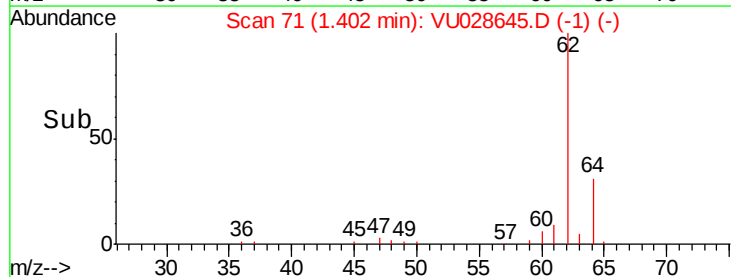
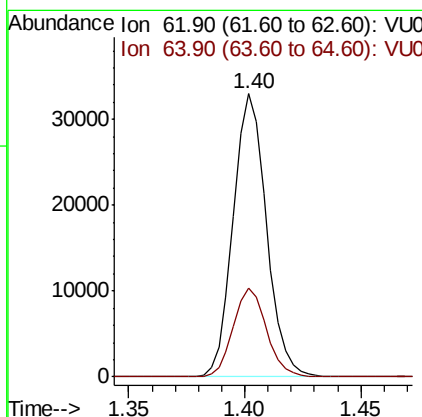
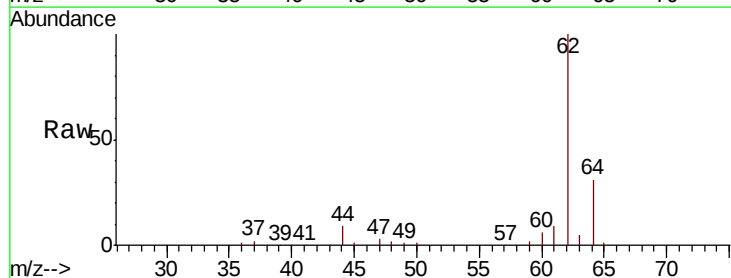
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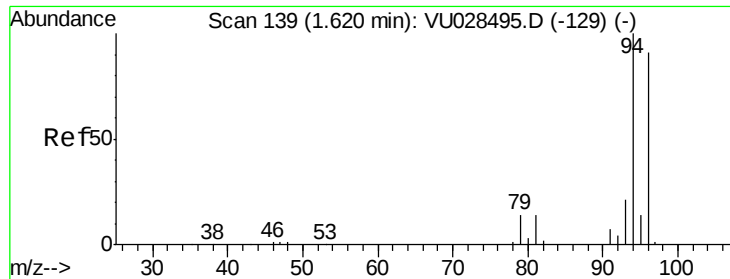
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#4
Vinyl Chloride
Concen: 18.571 ug/l
RT: 1.40 min Scan# 71
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion: 62 Resp: 32741
Ion Ratio Lower Upper
62 100
64 31.3 25.1 37.7





#5

Bromomethane

Concen: 21.022 ug/l

RT: 1.60 min Scan# 134

Delta R.T. -0.02 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBSD02

Tot Ion: 94 Resp: 14929

Ion Ratio Lower Upper

94 100

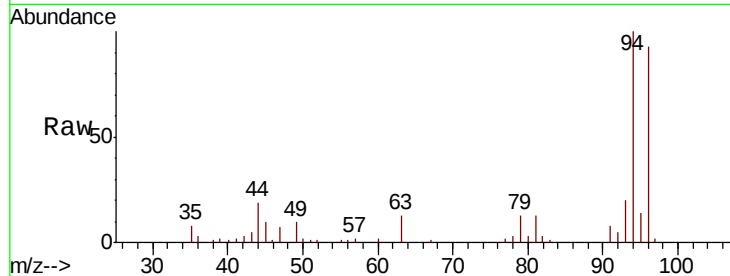
96 93.3 73.2 109.8

Manual Integrations

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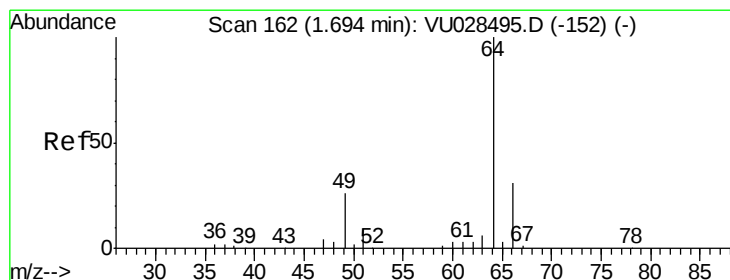
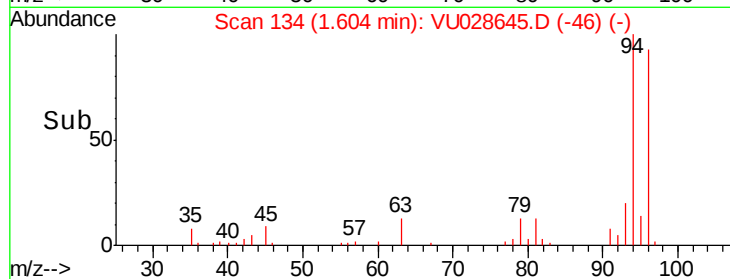
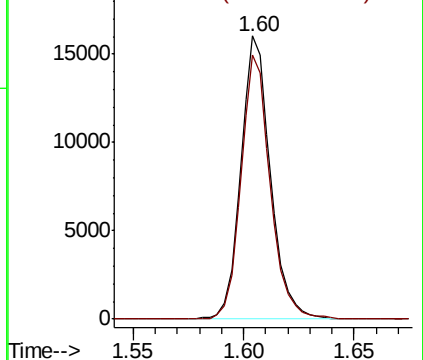
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Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 18.388 ug/l

RT: 1.68 min Scan# 159

Delta R.T. -0.01 min

Lab File: VU028645.D

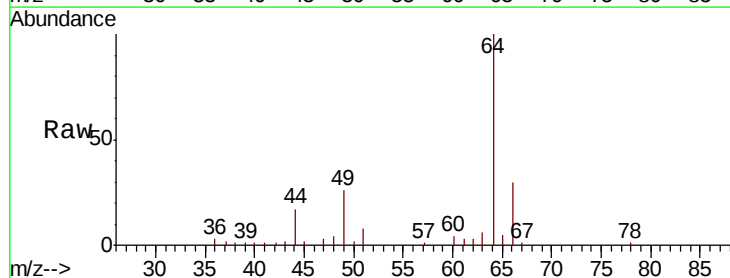
Acq: 12 Dec 2018 12:21

Tgt Ion: 64 Resp: 18352

Ion Ratio Lower Upper

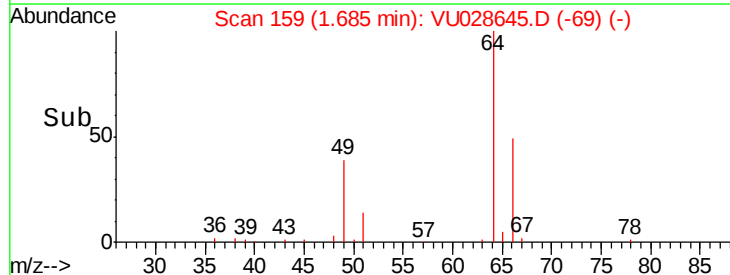
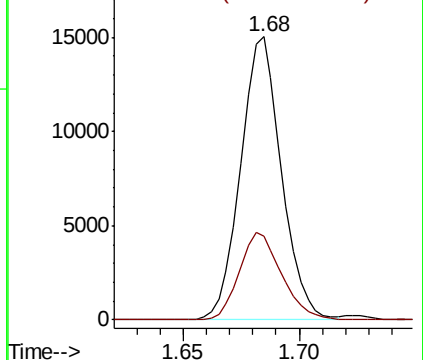
64 100

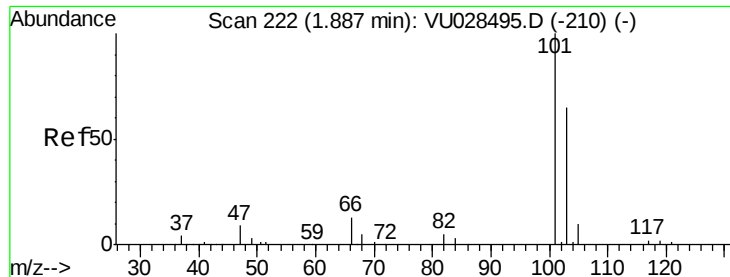
66 29.7 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

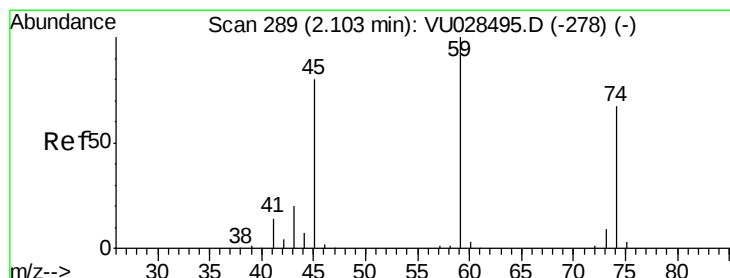
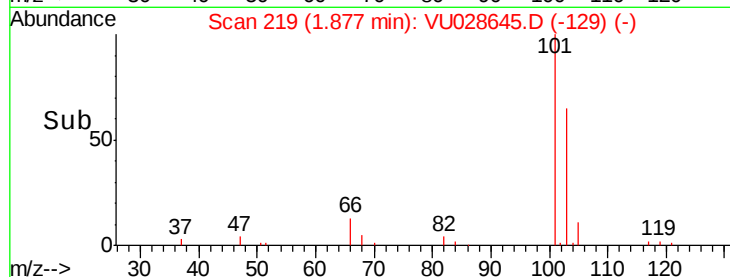
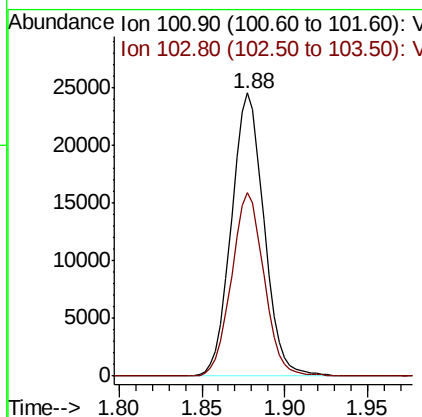
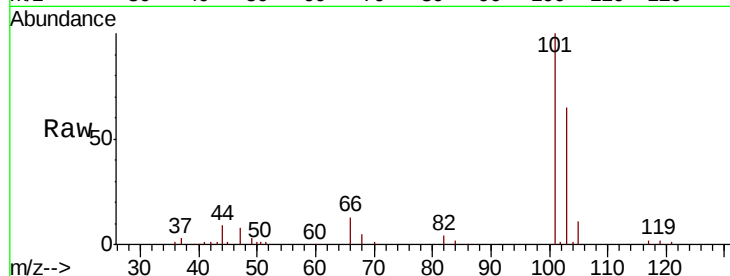
Trichlorofluoromethane
 Concen: 18.089 ug/l
 RT: 1.88 min Scan# 219
 Delta R.T. -0.01 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Instrument :
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 VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.3	78.5

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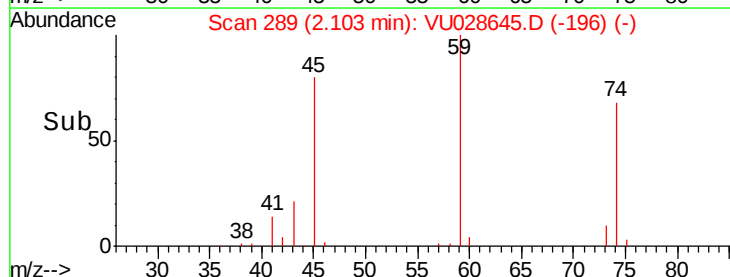
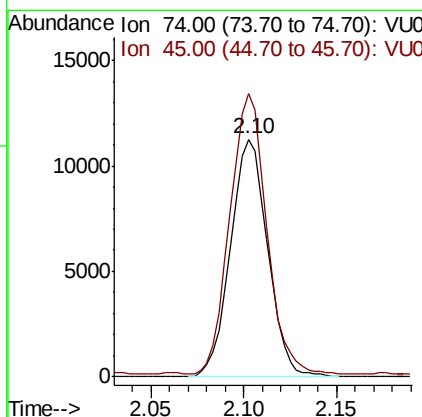
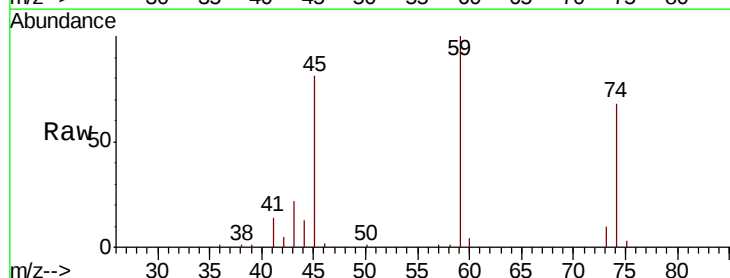
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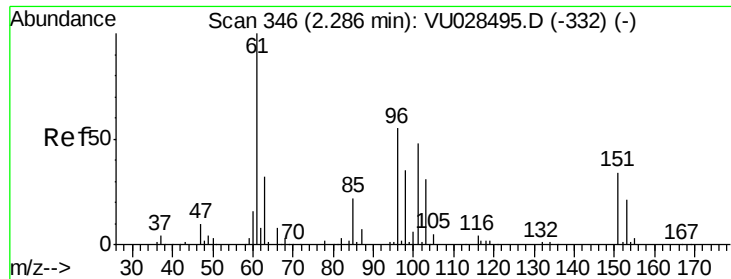


#8

Diethyl Ether
 Concen: 18.095 ug/l
 RT: 2.10 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
74	100		
45	116.7	59.7	179.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.313 ug/l

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

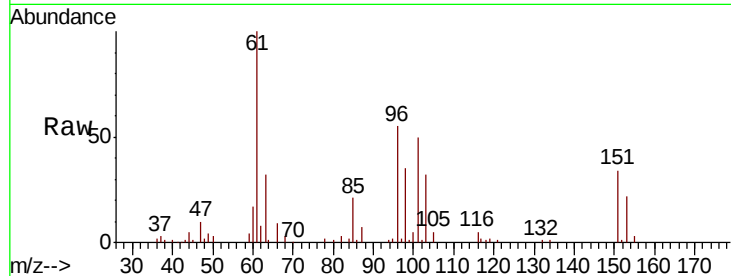
ClientSampleId :

VU1213WBSD02

Tot Ion:	101	Resp:	20315
Ion Ratio	Lower	Upper	
101	100		
85	44.6	36.4	54.6
151	69.0	58.2	87.2

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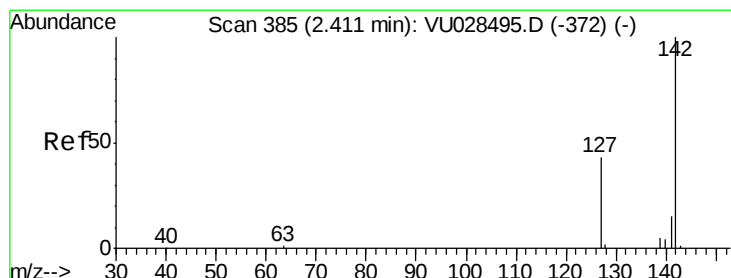
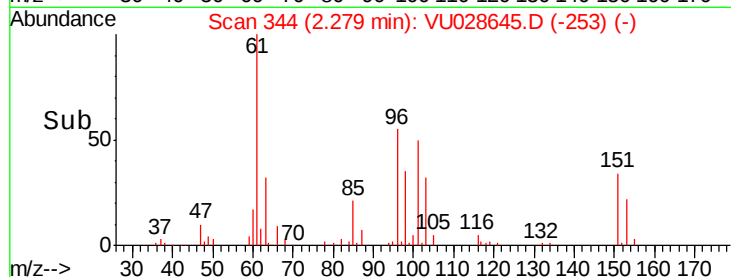
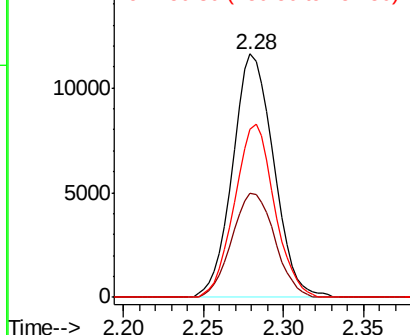


Abundance

Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 23.831 ug/l

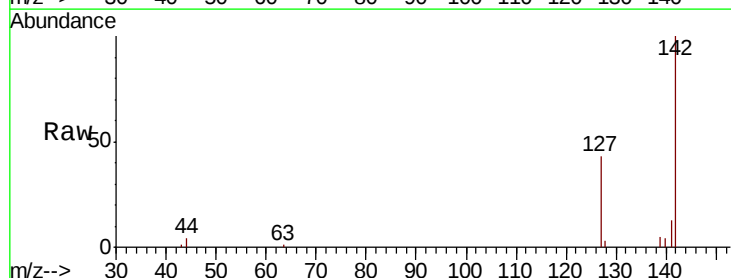
RT: 2.41 min Scan# 384

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Tgt Ion:	142	Resp:	20743
Ion Ratio	Lower	Upper	
142	100		
127	41.6	33.5	50.3
141	13.5	11.2	16.8

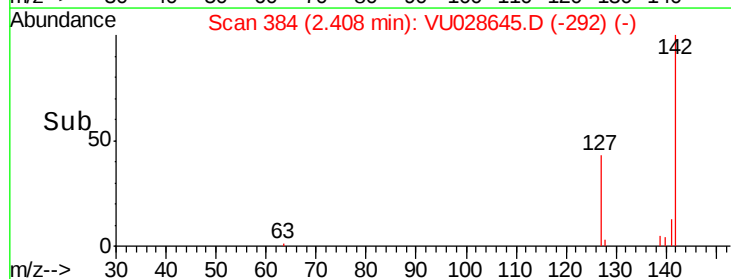
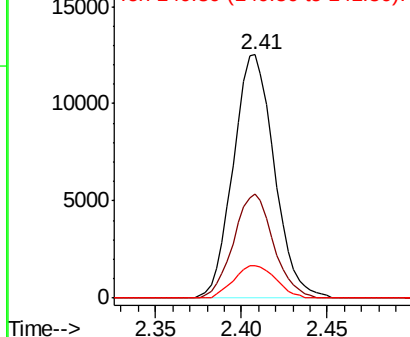


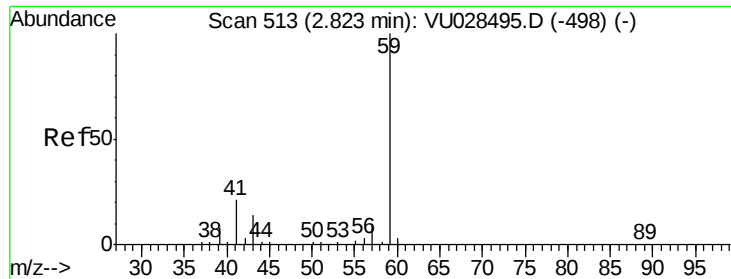
Abundance

Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





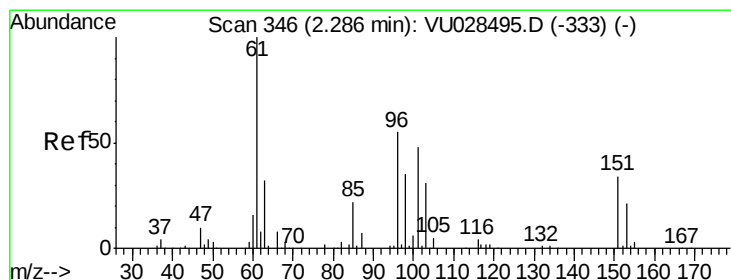
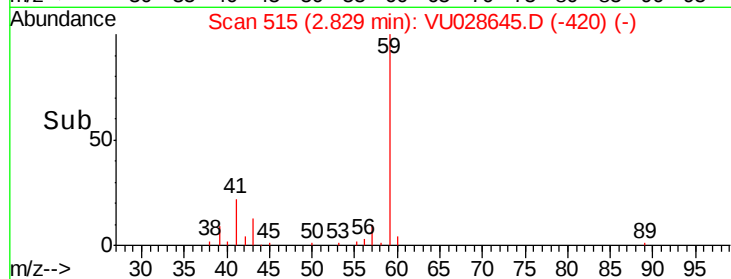
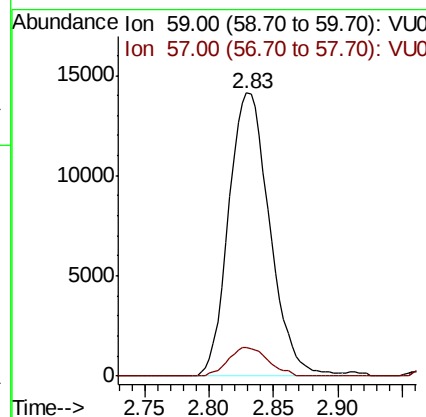
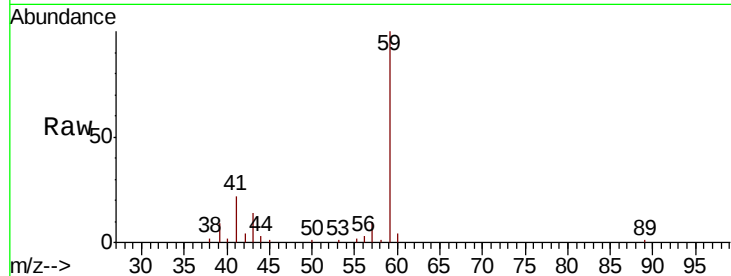
#11
Tert butyl alcohol
Concen: 92.722 ug/l
RT: 2.83 min Scan# 515
Delta R.T. 0.01 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
59	100	31253		
57	9.8		8.0	12.0

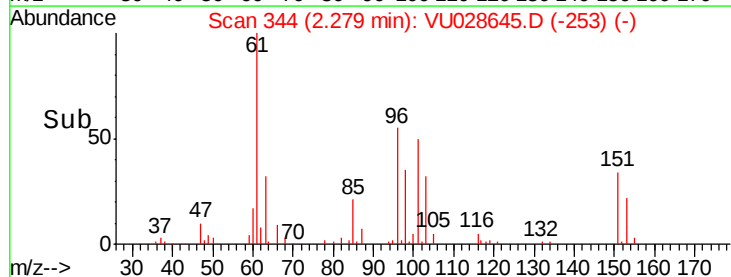
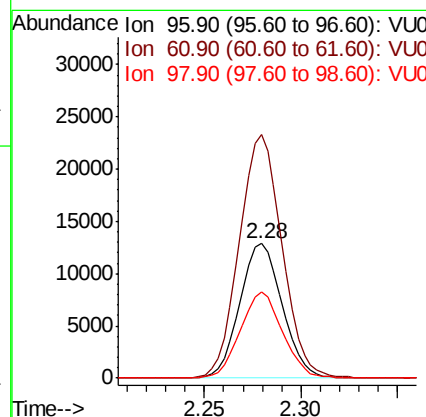
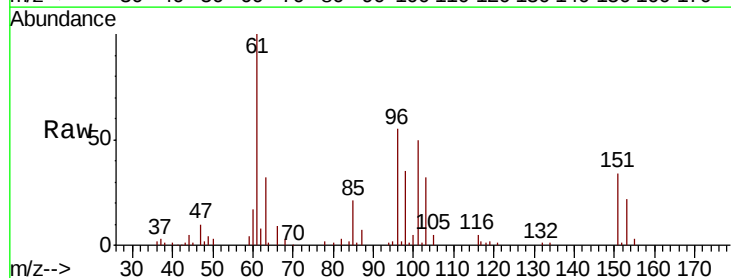
Manual Integrations
APPROVED

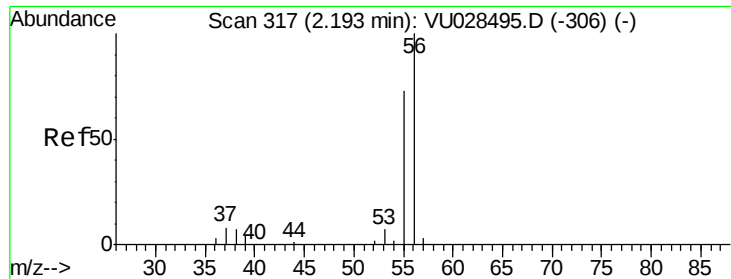
MMDadoda
12/13/2018 9:29:46 AM



#12
1,1-Dichloroethene
Concen: 17.772 ug/l
RT: 2.28 min Scan# 344
Delta R.T. -0.01 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	19616		
61	181.2		146.4	219.6
98	64.1		51.8	77.8





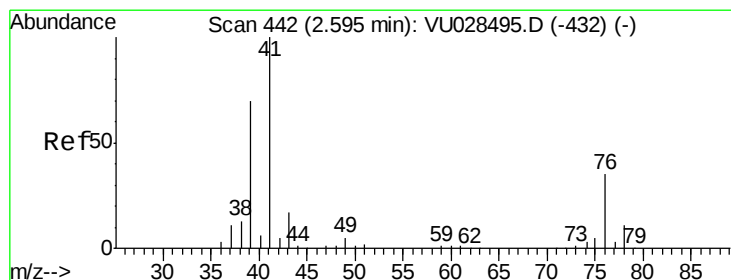
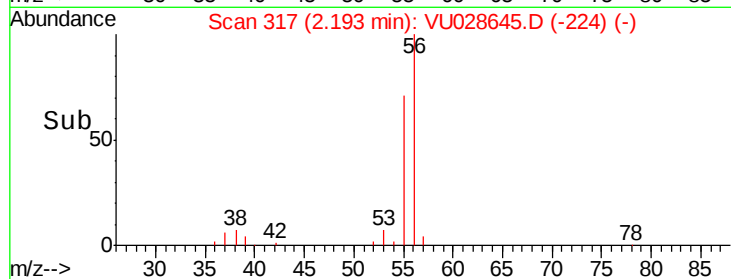
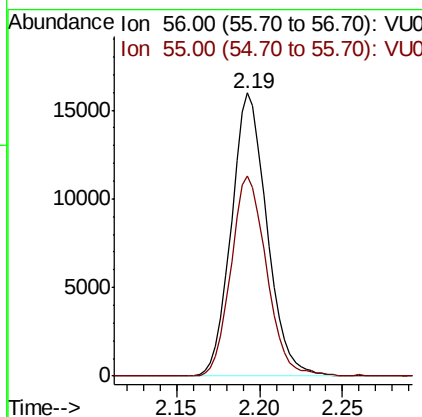
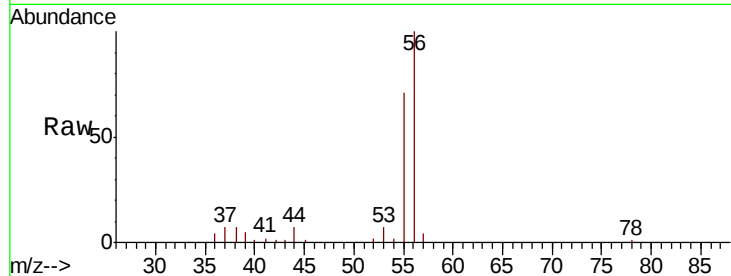
#13
Acrolein
Concen: 88.611 ug/l
RT: 2.19 min Scan# 317
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
55	70.6	57.5	86.3

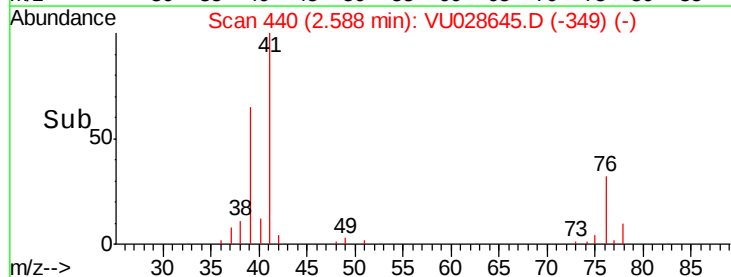
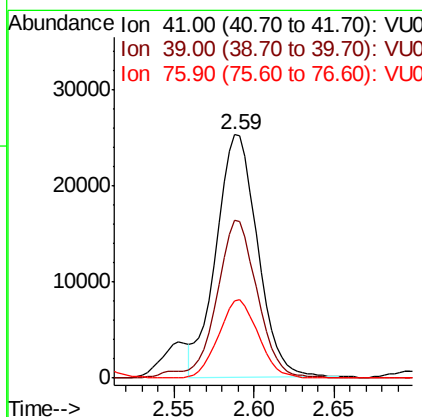
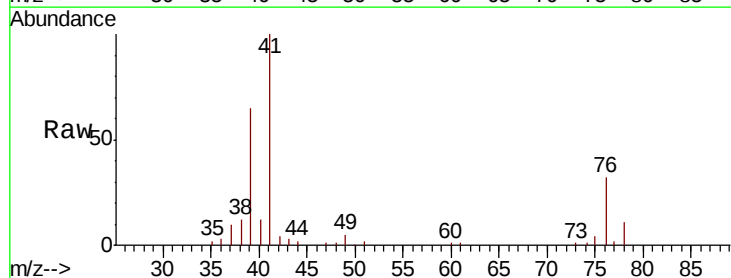
Manual Integrations
APPROVED

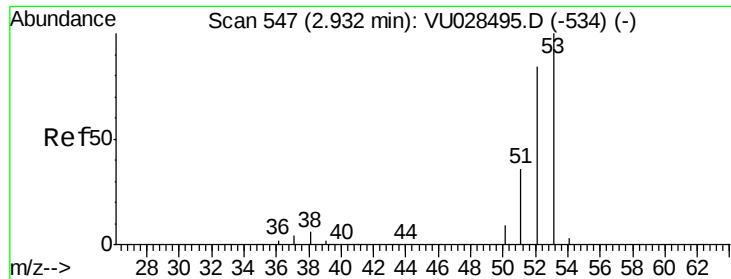
MMDadoda
12/13/2018 9:29:46 AM



#14
Allyl chloride
Concen: 17.226 ug/l
RT: 2.59 min Scan# 440
Delta R.T. -0.01 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
41	100		
39	64.2	50.8	76.2
76	30.8	24.8	37.2





#15

Acrylonitrile

Concen: 94.797 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

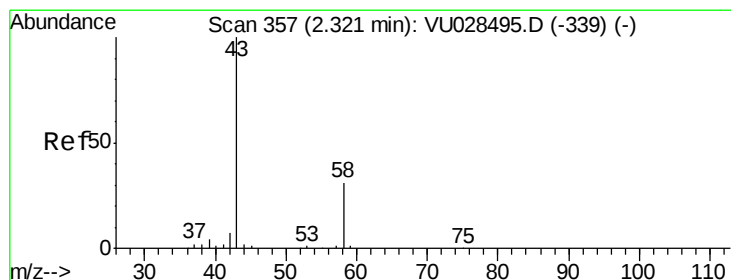
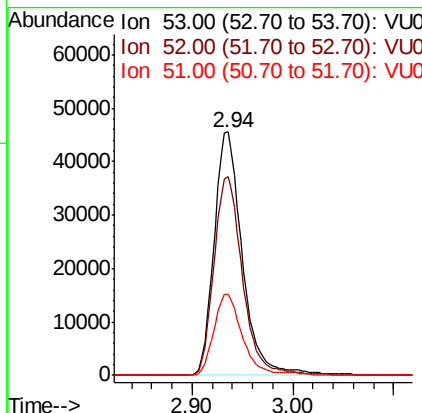
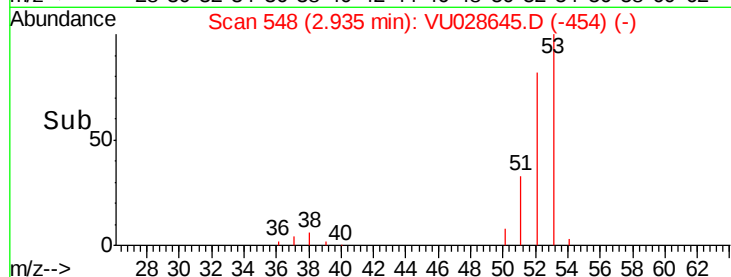
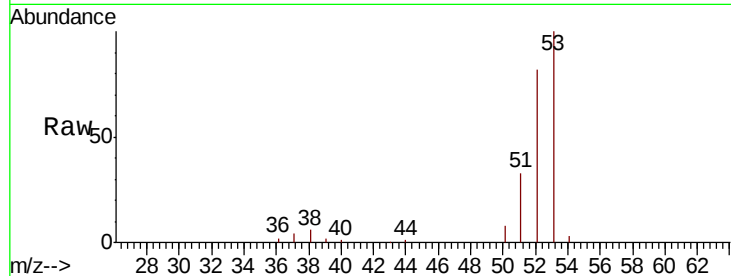
ClientSampleId :

VU1213WBSD02

Tot Ion:	53	Resp:	88710
Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.1	99.1
51	33.0	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 78.653 ug/l

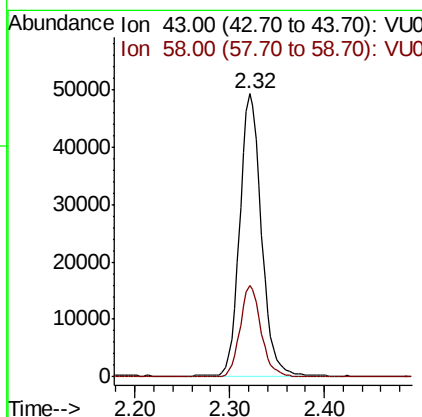
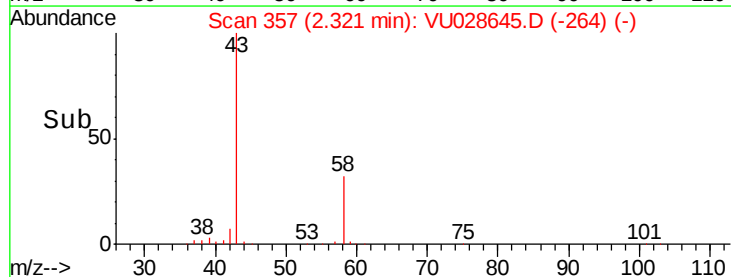
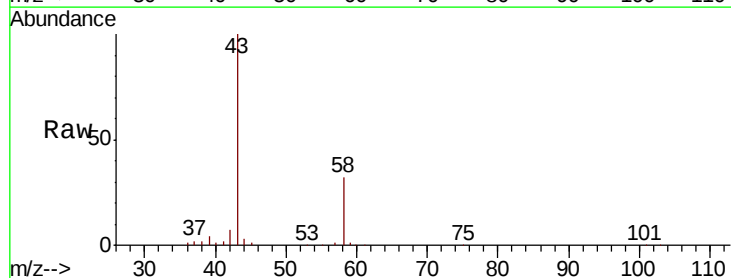
RT: 2.32 min Scan# 357

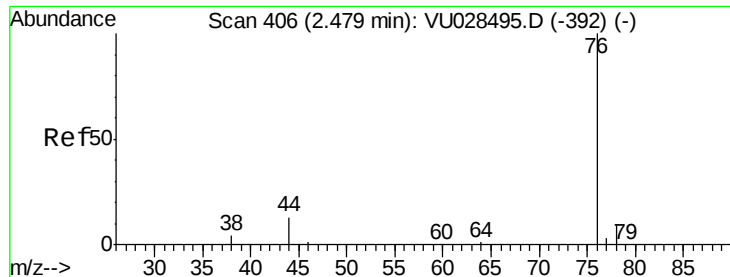
Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Tgt Ion:	43	Resp:	77647
Ion	Ratio	Lower	Upper
43	100		
58	32.3	24.6	37.0





#17

Carbon Disulfide

Concen: 17.073 ug/l

RT: 2.47 min Scan# 404

Delta R.T. -0.01 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBSD02

Tot Ion: 76 Resp: 67887

Ion Ratio Lower Upper

76 100

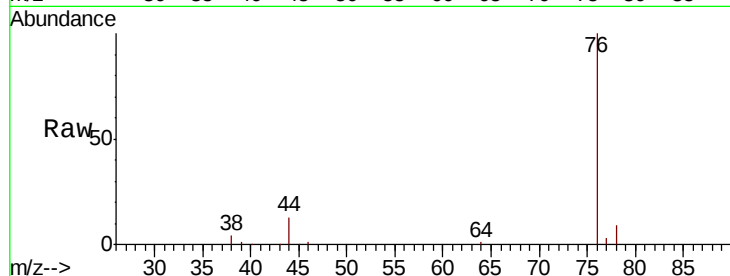
78 8.6 7.2 10.8

Manual Integrations

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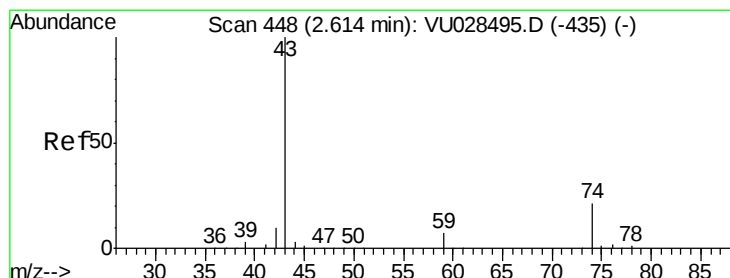
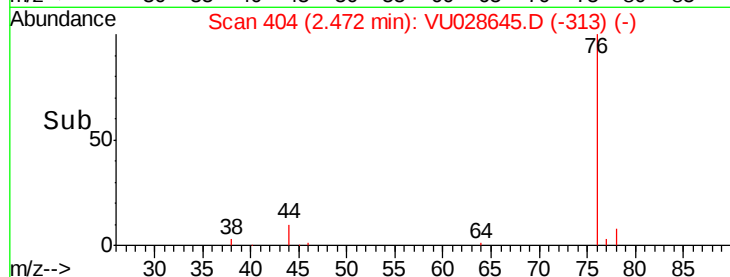
Abundance Ion 75.90 (75.60 to 76.60): VU028495.D (-392) (-)

Ion 77.90 (77.60 to 78.60): VU028495.D (-392) (-)

2.47

2.45 2.50 2.55

Time-->



#18

Methyl Acetate

Concen: 21.679 ug/l

RT: 2.61 min Scan# 448

Delta R.T. -0.00 min

Lab File: VU028645.D

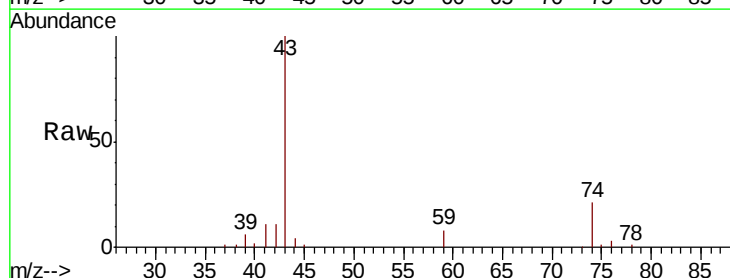
Acq: 12 Dec 2018 12:21

Tgt Ion: 43 Resp: 55480

Ion Ratio Lower Upper

43 100

74 20.6 16.4 24.6



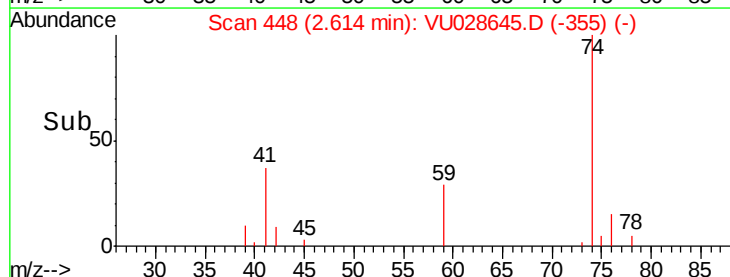
Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-435) (-)

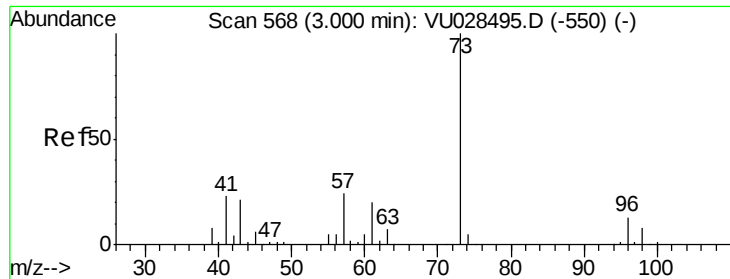
Ion 74.00 (73.70 to 74.70): VU028495.D (-435) (-)

2.61

2.50 2.60 2.70

Time-->





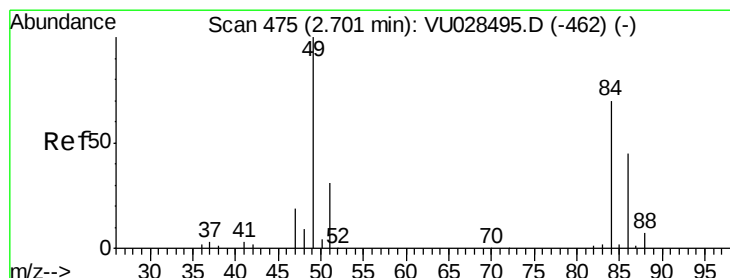
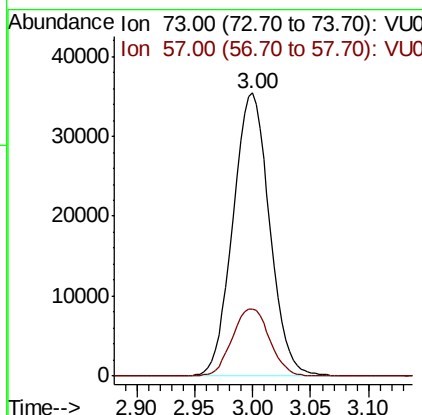
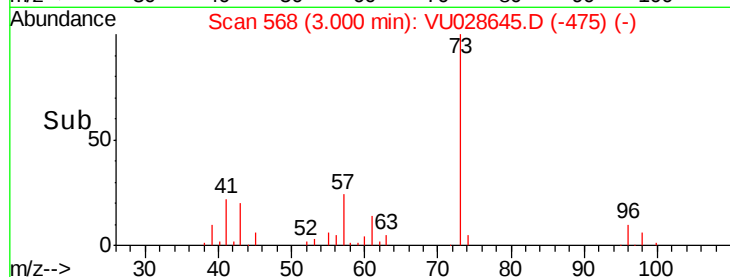
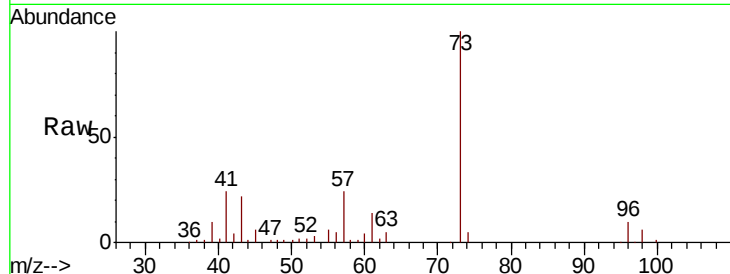
#19
Methvl tert-butvl Ether
Concen: 18.523 ug/l
RT: 3.00 min Scan# 568
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion: 73 Resp: 77506
Ion Ratio Lower Upper
73 100
57 23.9 19.4 29.2

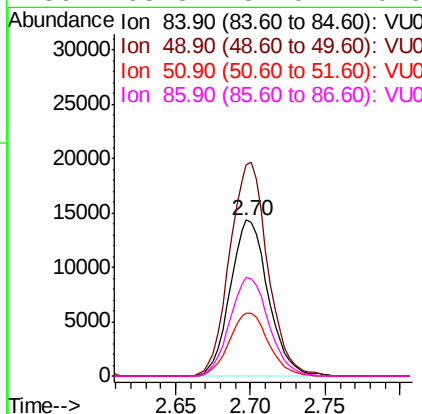
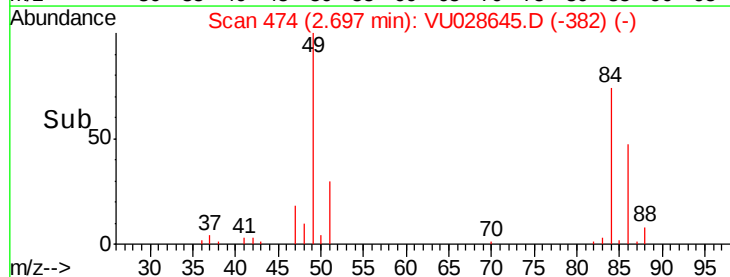
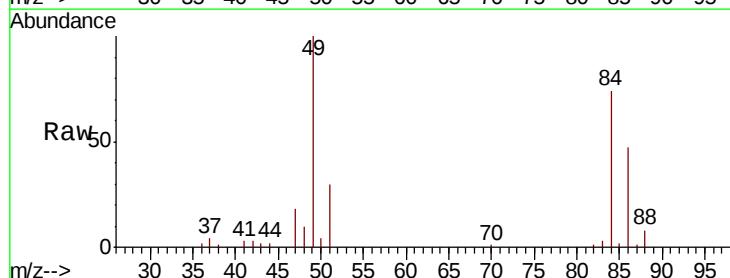
Manual Integrations
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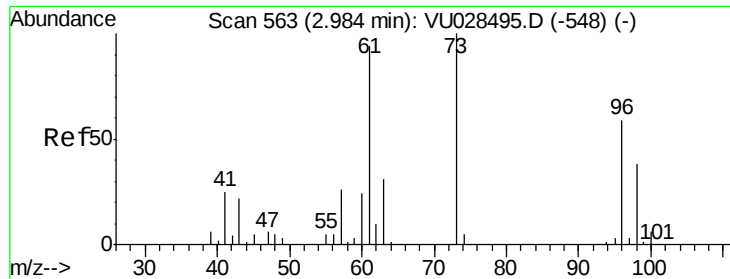
MMDadoda
12/13/2018 9:29:46 AM



#20
Methylene Chloride
Concen: 17.394 ug/l
RT: 2.70 min Scan# 474
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion: 84 Resp: 25313
Ion Ratio Lower Upper
84 100
49 135.9 114.0 171.0
51 40.6 35.1 52.7
86 63.3 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 17.932 ug/l

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBSD02

Tot Ion: 96 Resp: 22285

Ion Ratio Lower Upper

96 100

61 151.8 127.0 190.4

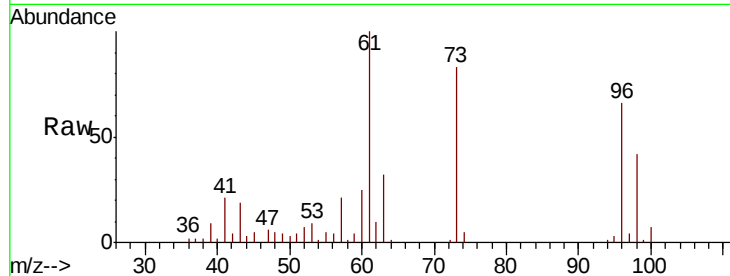
98 64.0 51.9 77.9

Manual Integrations

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MMDadoda

12/13/2018 9:29:46 AM

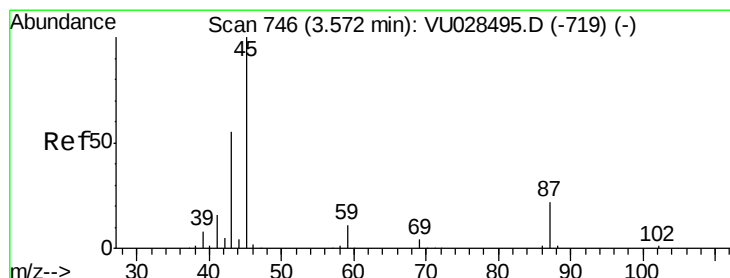
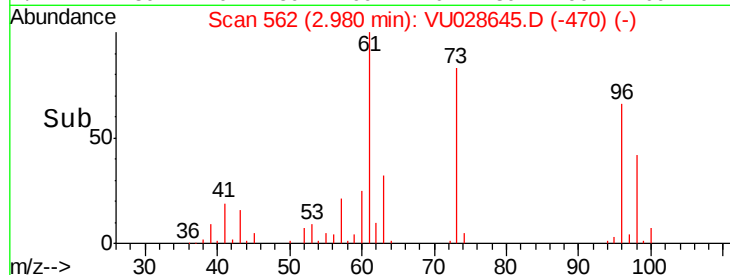
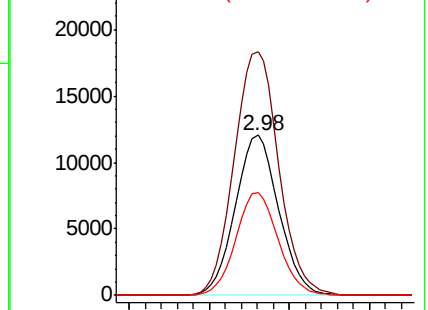


Abundance

Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#22

Diisopropyl ether

Concen: 18.553 ug/l

RT: 3.57 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Tgt Ion: 45 Resp: 94207

Ion Ratio Lower Upper

45 100

43 54.6 45.3 67.9

87 23.7 17.6 26.4

59 11.5 8.8 13.2

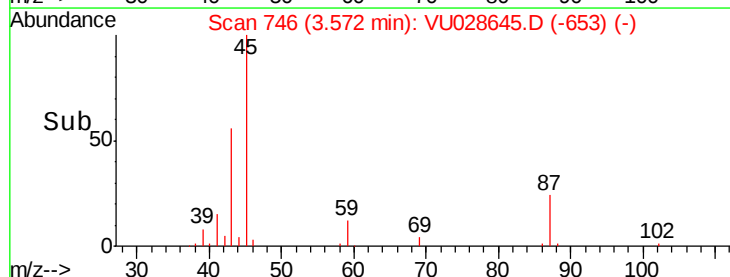
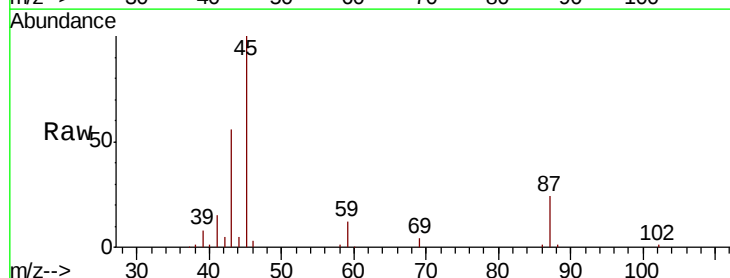
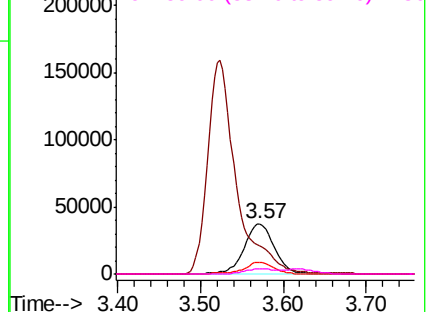
Abundance

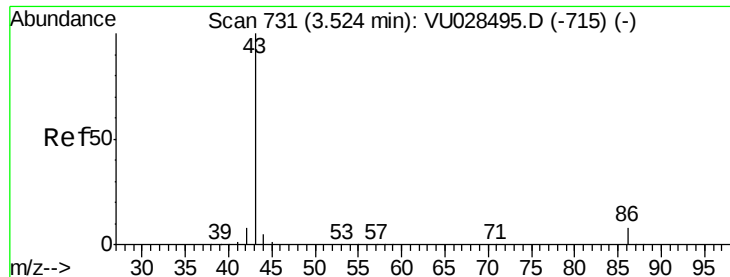
Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0





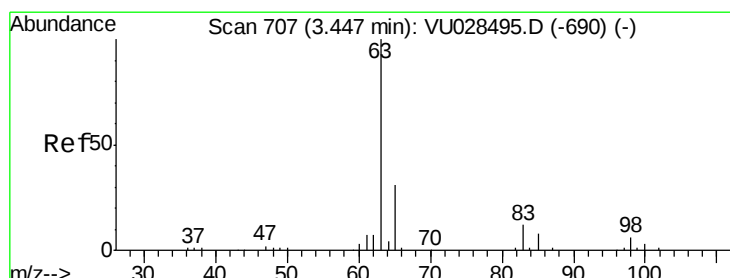
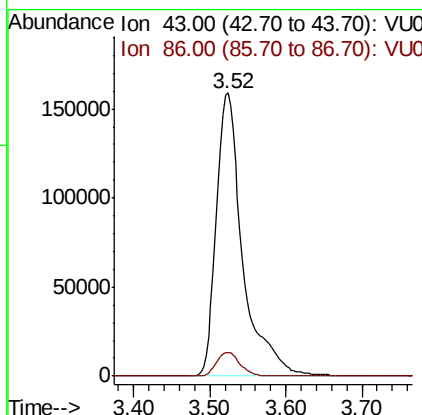
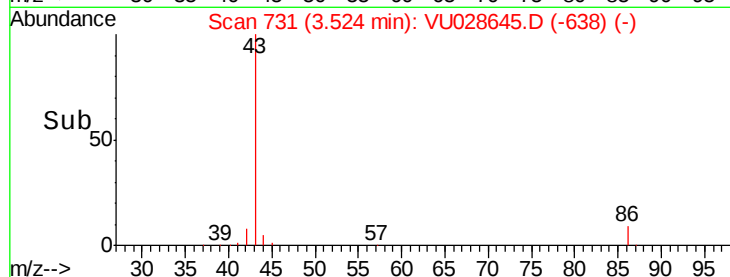
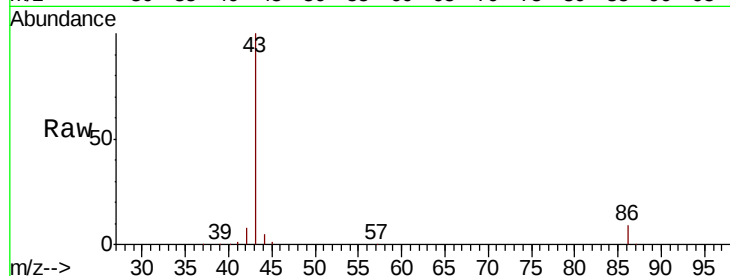
#23
 Vinyl Acetate
 Concen: 91.870 ug/l
 RT: 3.52 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBSD02

Tot Ion	43	86	Resp	Lower	Upper
384783	100	8.5	6.8	10.2	

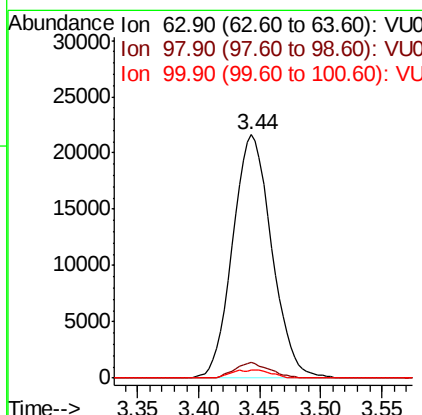
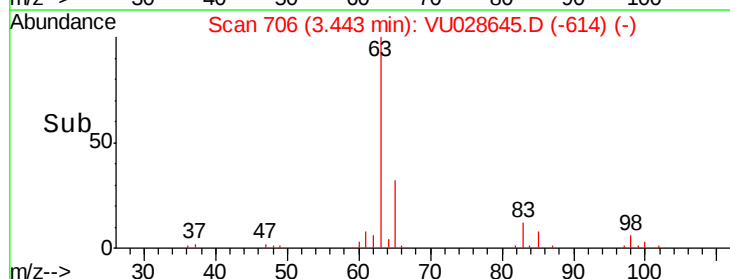
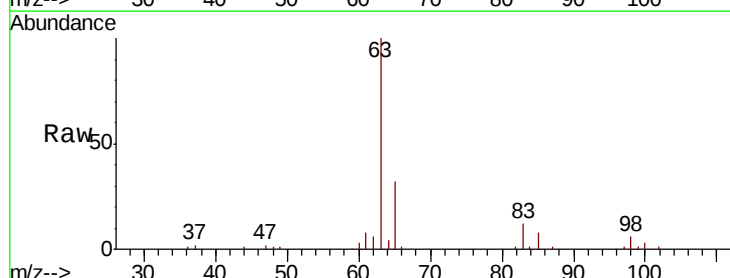
Manual Integrations
 APPROVED

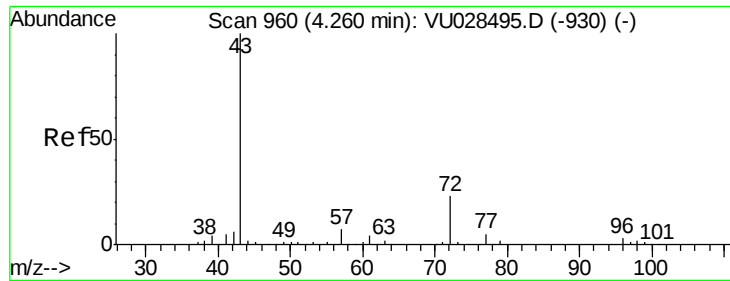
MMDadoda
 12/13/2018 9:29:46 AM



#24
 1,1-Dichloroethane
 Concen: 18.070 ug/l
 RT: 3.44 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Tgt Ion	63	98	100	Resp	Lower	Upper
48031	100	6.3	3.2	3.0	9.2	5.1





#25

2-Butanone

Concen: 90.165 ug/l

RT: 4.26 min Scan# 960

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBSD02

Tot Ion: 43 Resp: 121644

Ion Ratio Lower Upper

43 100

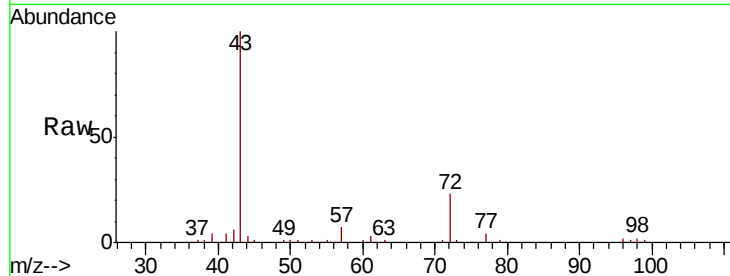
72 22.9 18.6 28.0

Manual Integrations

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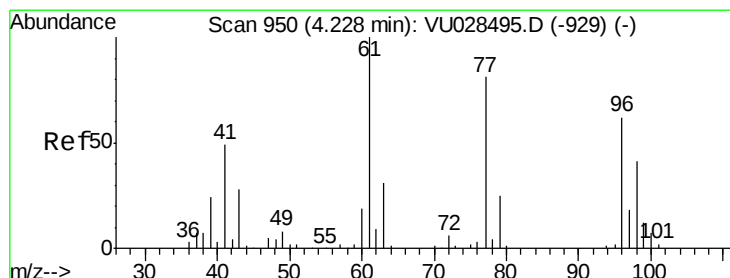
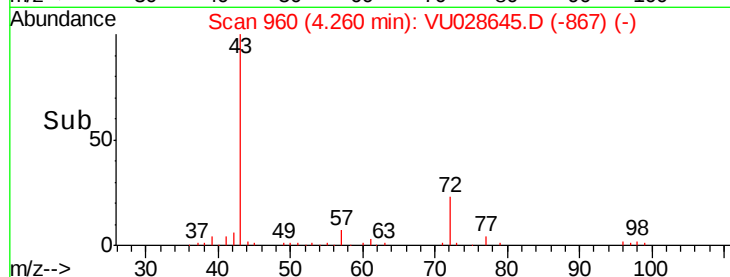
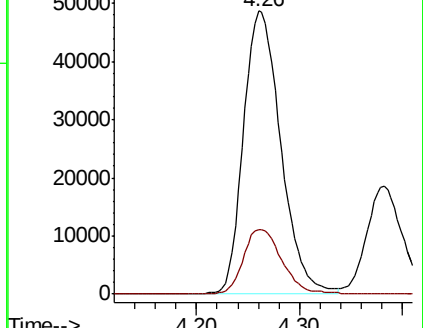
MMDadoda

12/13/2018 9:29:46 AM



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-930) (-)

Ion 72.00 (71.70 to 72.70): VU028495.D (-930) (-)



#26

2,2-Dichloropropane

Concen: 17.883 ug/l

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU028645.D

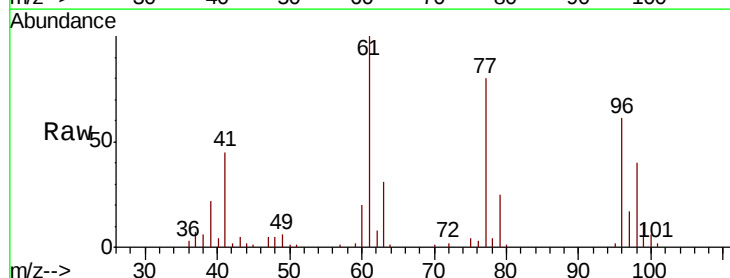
Acq: 12 Dec 2018 12:21

Tgt Ion: 77 Resp: 37663

Ion Ratio Lower Upper

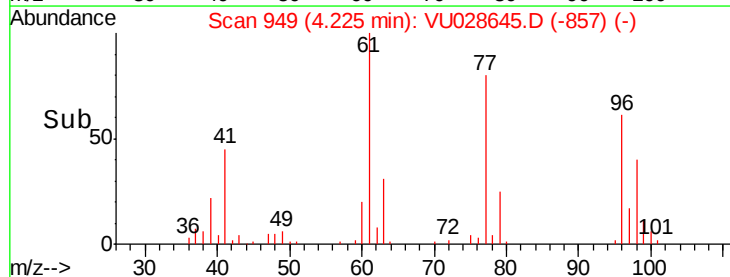
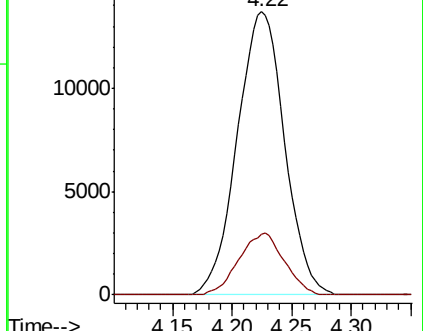
77 100

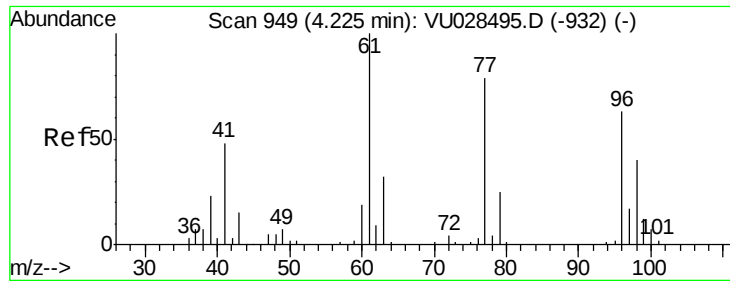
97 21.0 11.0 33.0



Abundance Ion 76.90 (76.60 to 77.60): VU028495.D (-929) (-)

Ion 96.90 (96.60 to 97.60): VU028495.D (-929) (-)





#27

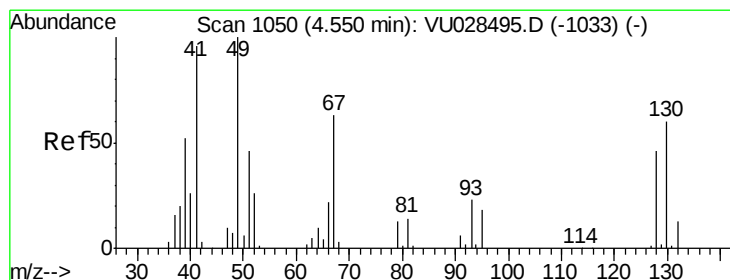
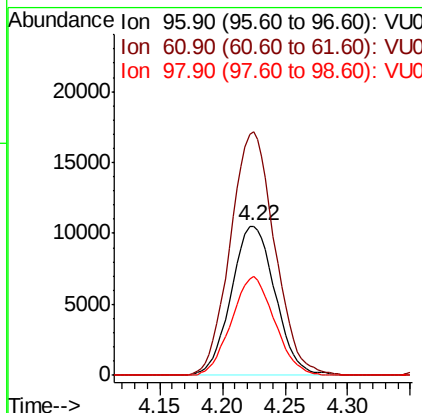
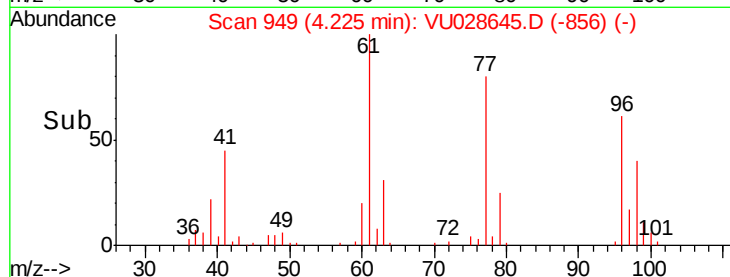
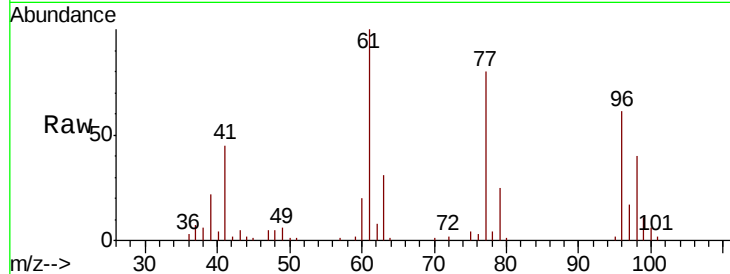
cis-1,2-Dichloroethene
Concen: 18.201 ug/l
RT: 4.22 min Scan# 949
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	164.7	0.0	332.4
98	64.6	0.0	129.0

Manual Integrations
APPROVED

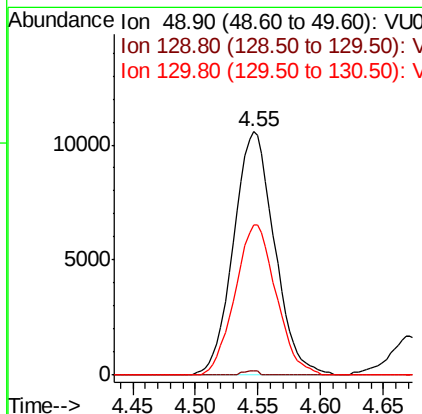
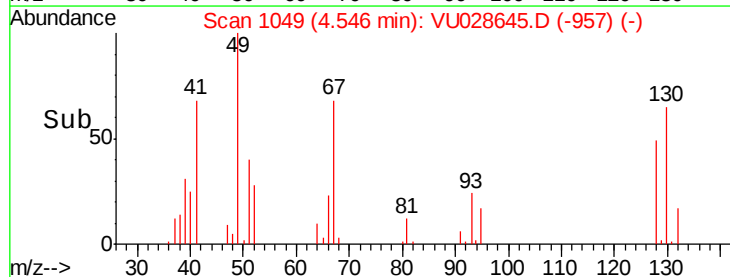
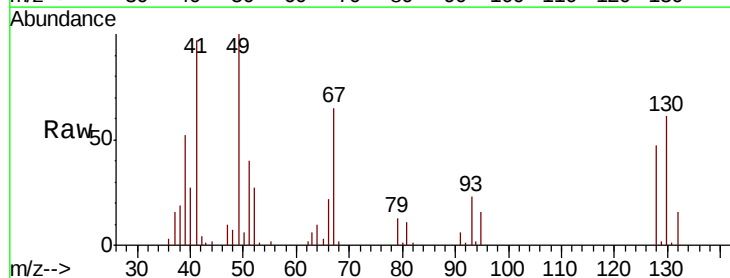
MMDadoda
12/13/2018 9:29:46 AM

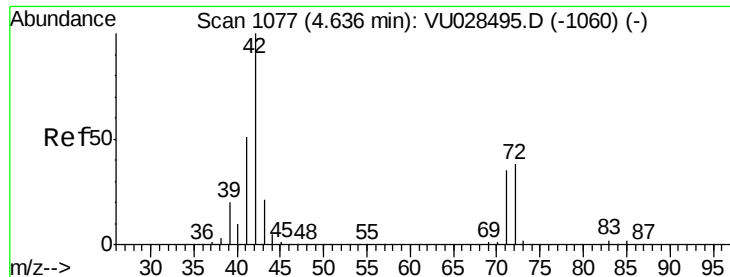


#28

Bromochloromethane
Concen: 19.905 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.6	0.0	3.0
130	61.7	47.8	71.8





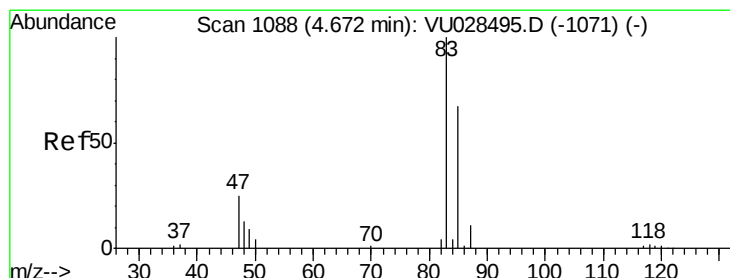
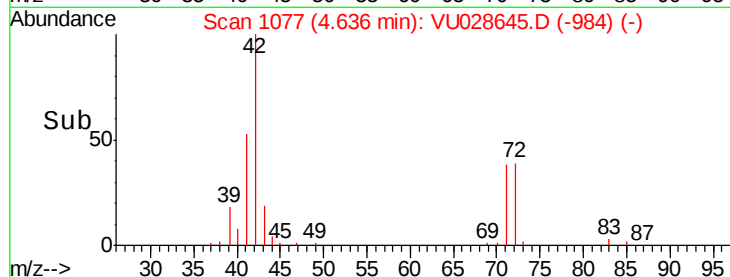
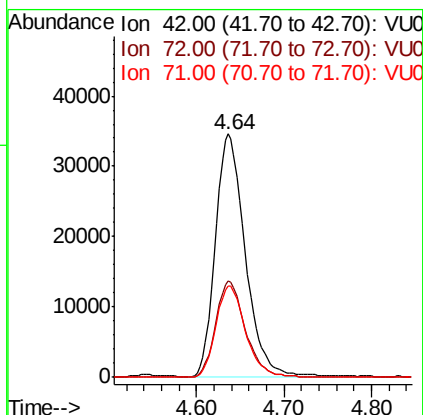
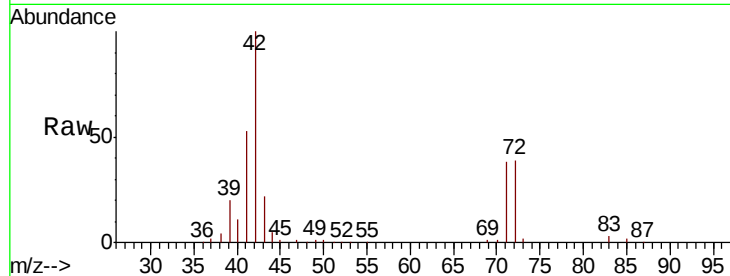
#29
Tetrahydrofuran
Concen: 95.050 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.2	31.4	47.0
71	37.1	28.6	43.0

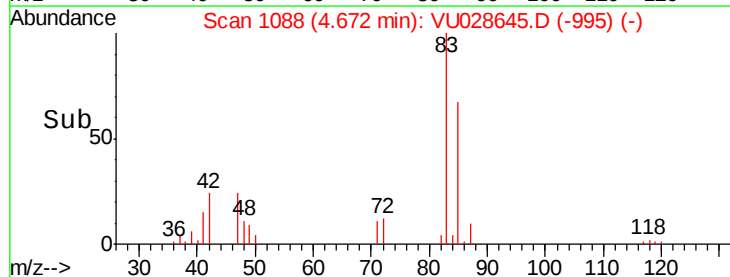
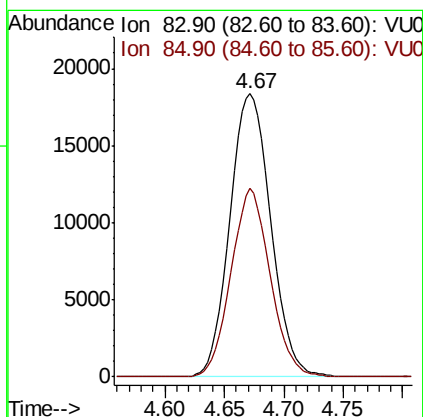
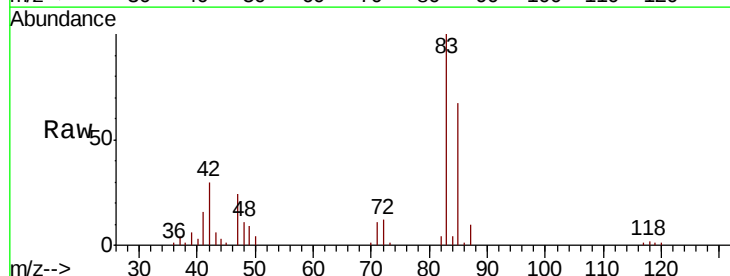
Manual Integrations
APPROVED

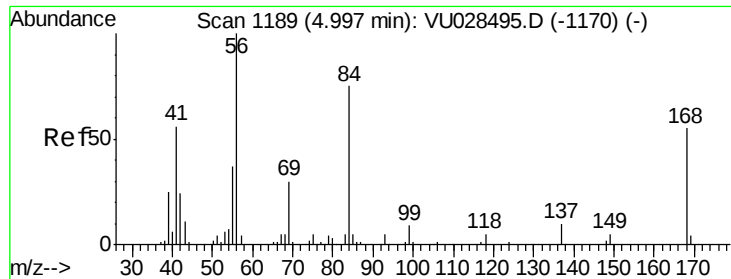
MMDadoda
12/13/2018 9:29:46 AM



#30
Chloroform
Concen: 18.884 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.5	53.6	80.4





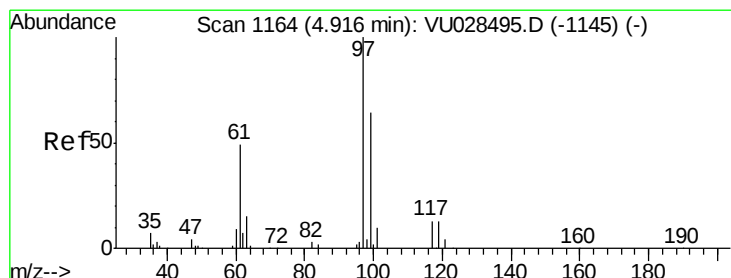
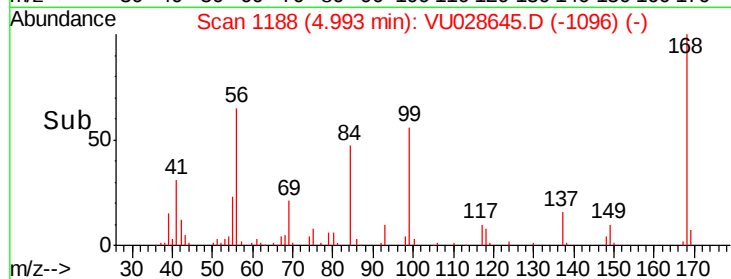
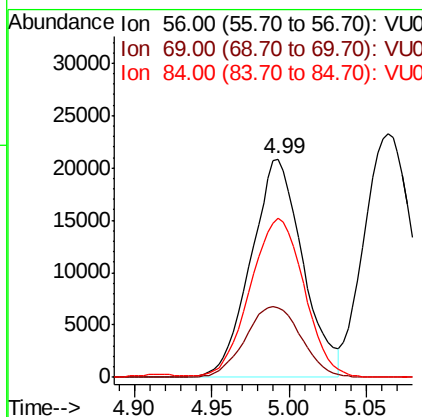
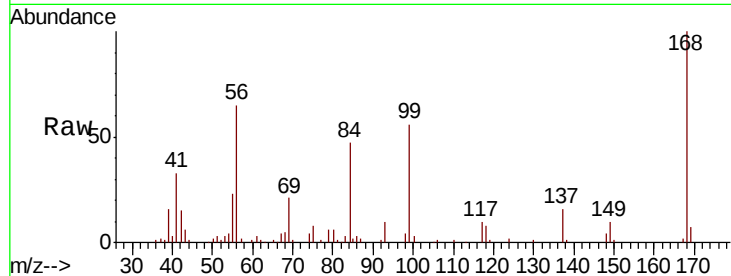
#31
Cyclohexane
Concen: 17.978 ug/l
RT: 4.99 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.0	24.0	36.0
84	72.2	59.7	89.5

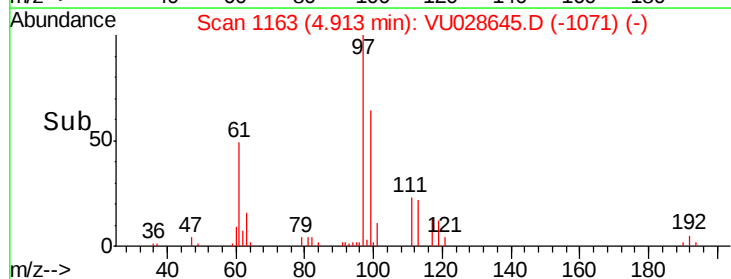
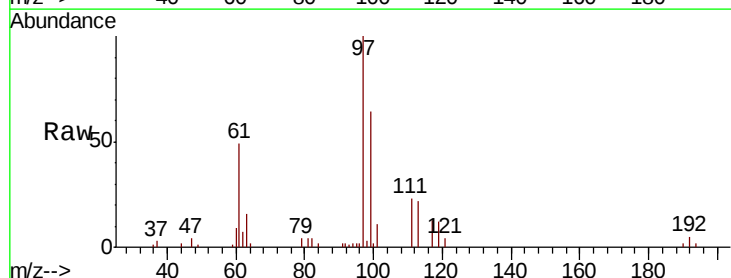
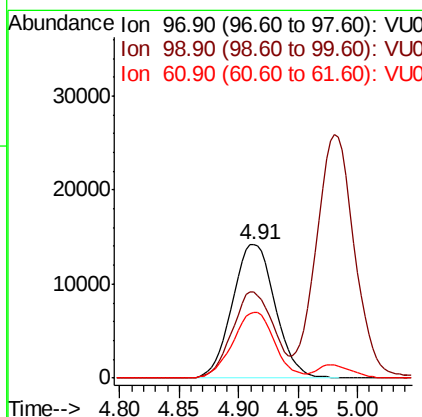
Manual Integrations
APPROVED

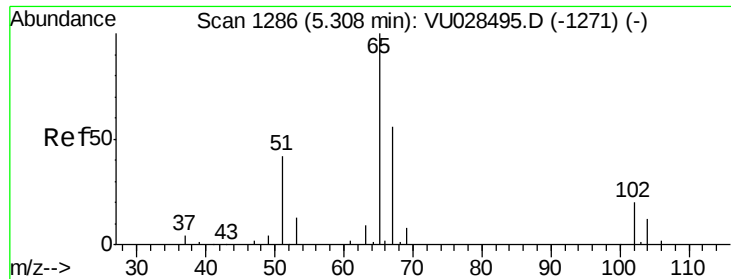
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12/13/2018 9:29:46 AM



#32
1,1,1-Trichloroethane
Concen: 18.477 ug/l
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.0	52.3	78.5
61	48.0	39.0	58.6





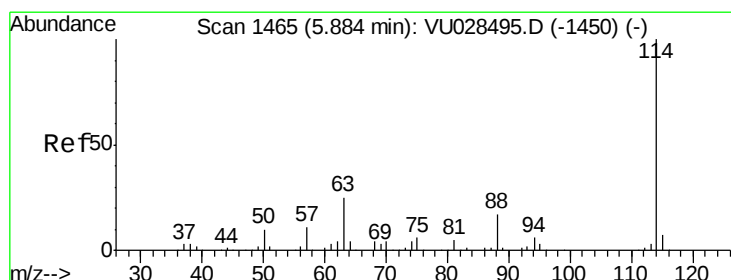
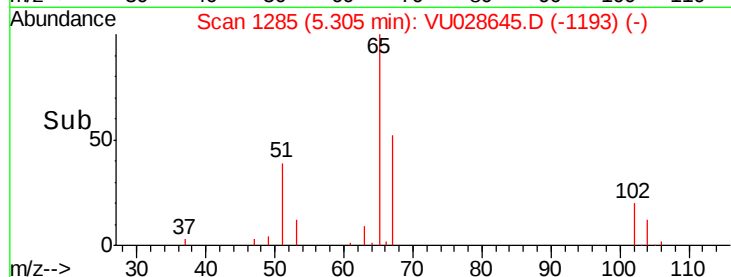
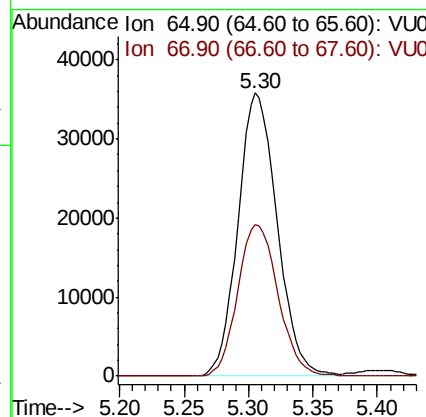
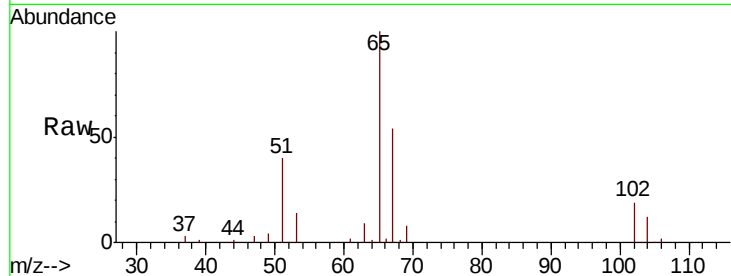
#33
 1,2-Dichloroethane-d4
 Concen: 50.078 ug/l
 RT: 5.30 min Scan# 1285
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.2	0.0	110.6

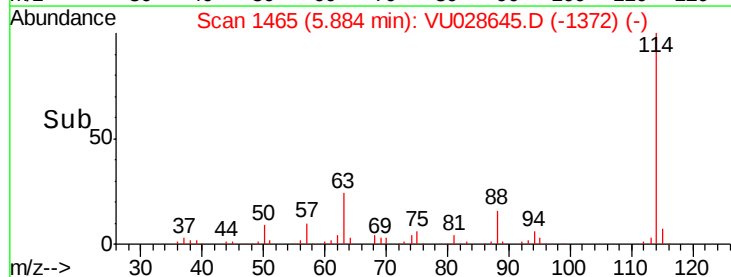
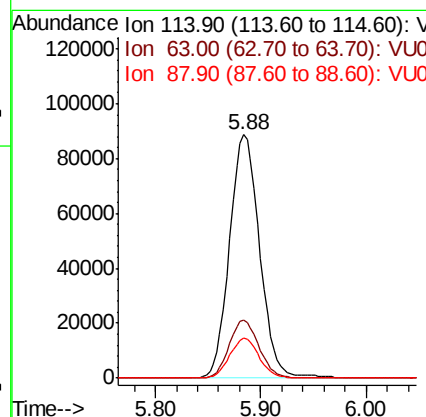
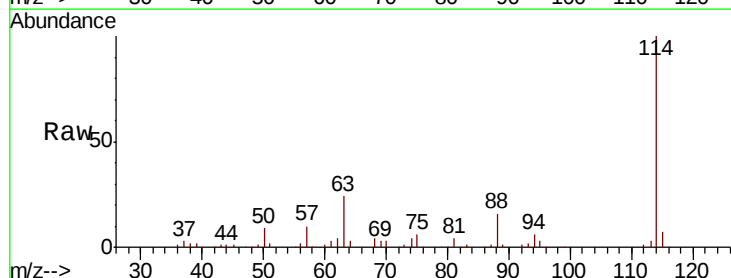
Manual Integrations
 APPROVED

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 12/13/2018 9:29:46 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.7	0.0	49.2
88	16.4	0.0	33.4





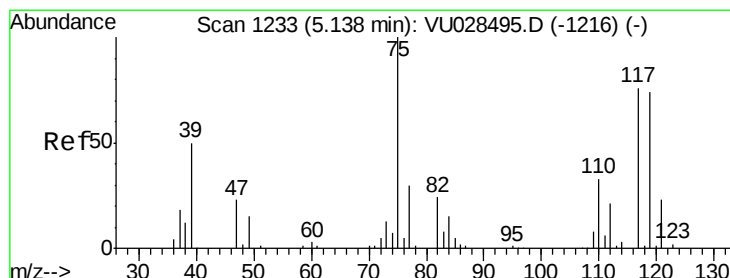
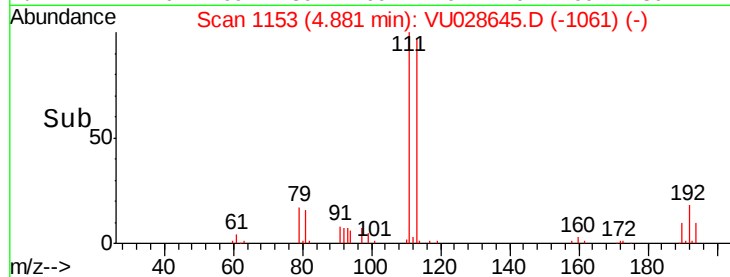
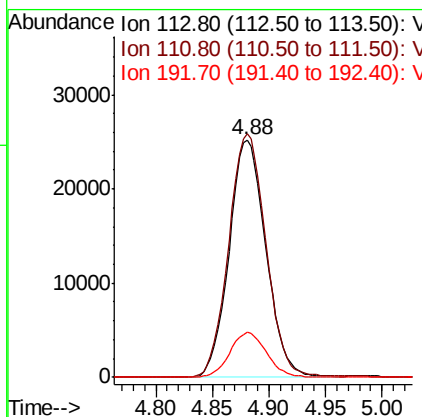
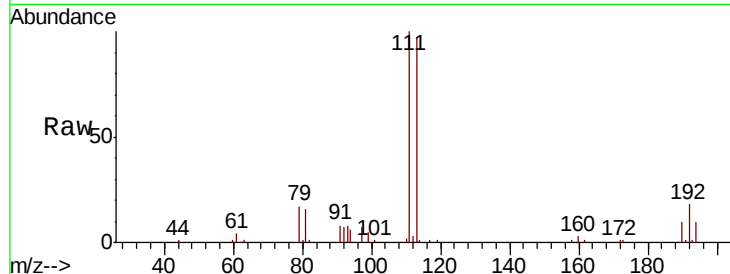
#35
Dibromofluoromethane
Concen: 51.582 ug/l
RT: 4.88 min Scan# 1153
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	56993		
111	103.8		83.4	125.0
192	18.7		14.8	22.2

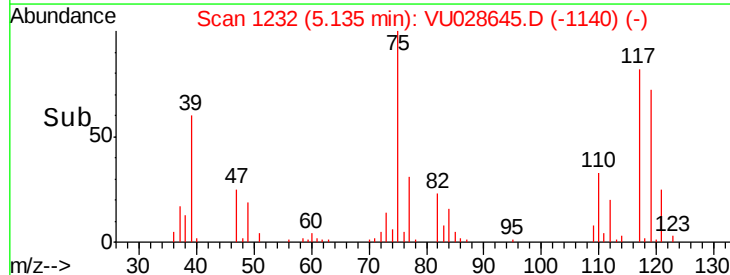
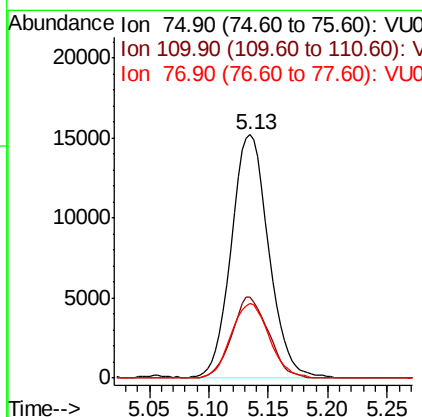
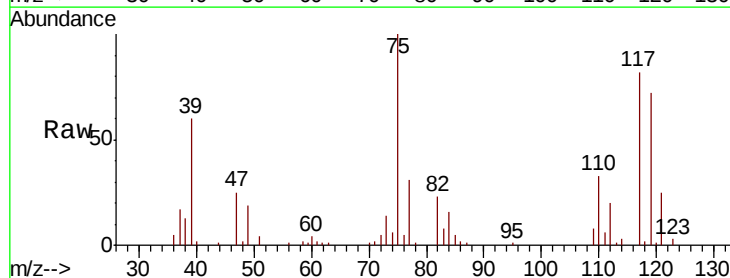
Manual Integrations
APPROVED

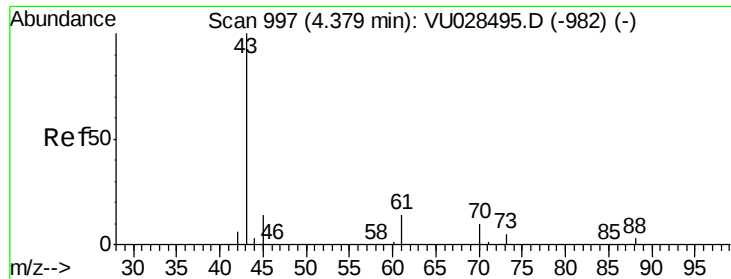
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12/13/2018 9:29:46 AM



#36
1,1-Dichloropropene
Concen: 17.327 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	33291		
110	32.4		16.1	48.2
77	31.3		24.5	36.7





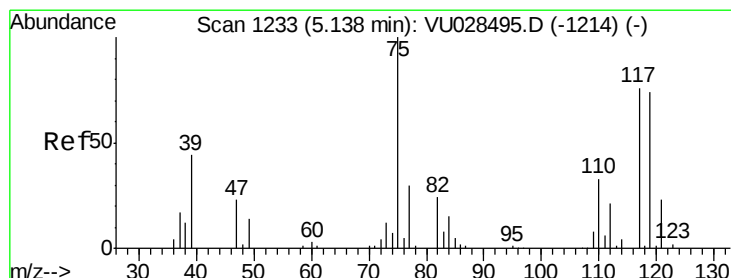
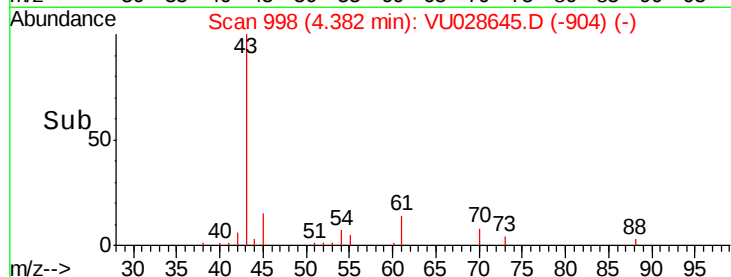
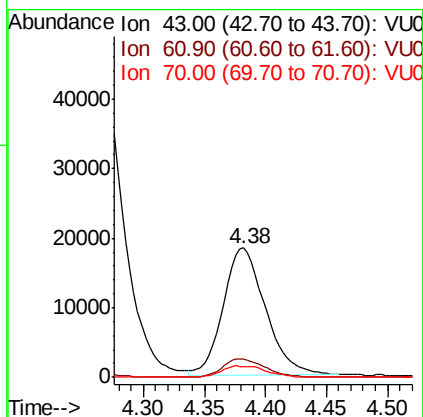
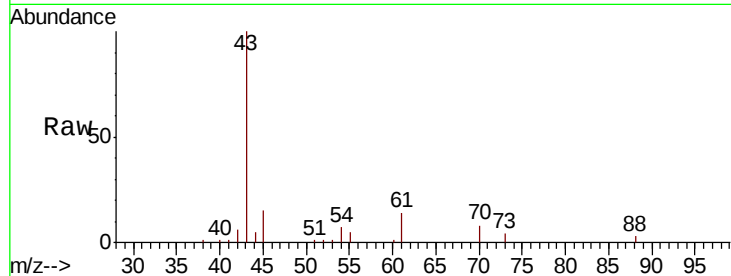
#37
Ethyl Acetate
Concen: 17.783 ug/l
RT: 4.38 min Scan# 998
Delta R.T. 0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.0	16.4
70	9.4	7.4	11.0

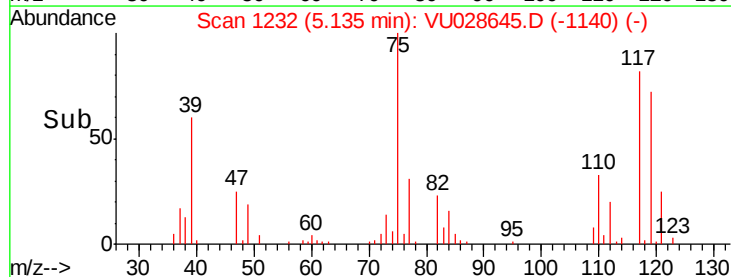
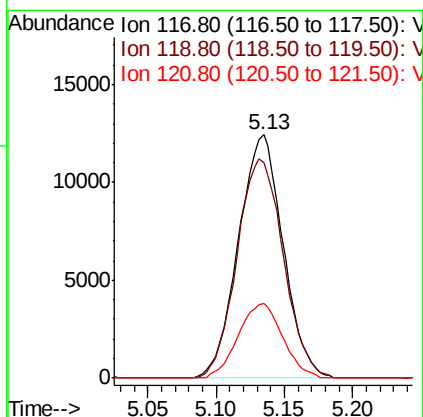
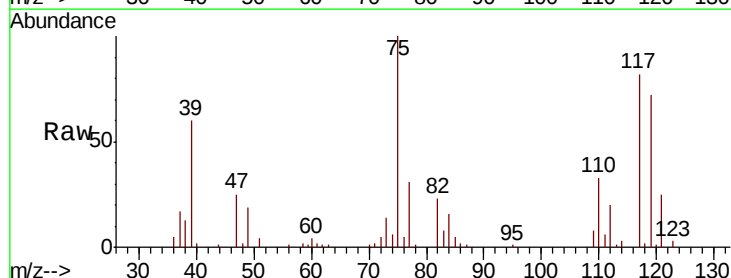
Manual Integrations
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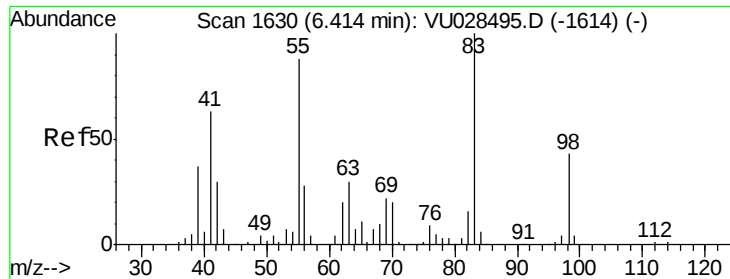
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#38
Carbon Tetrachloride
Concen: 18.273 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.4	77.6	116.4
121	30.6	24.6	36.8





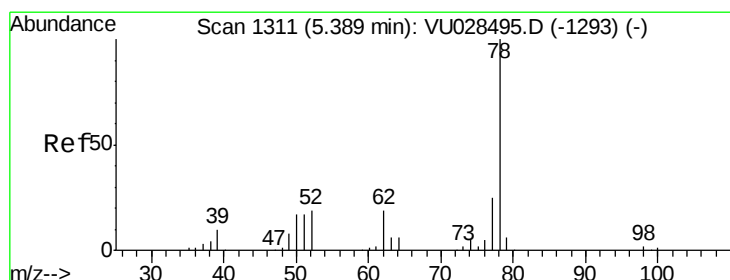
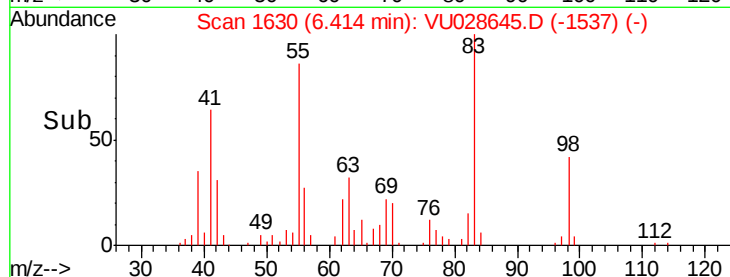
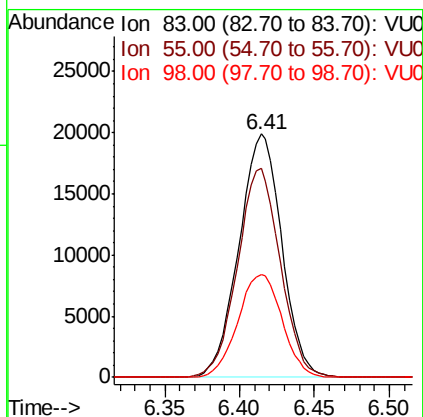
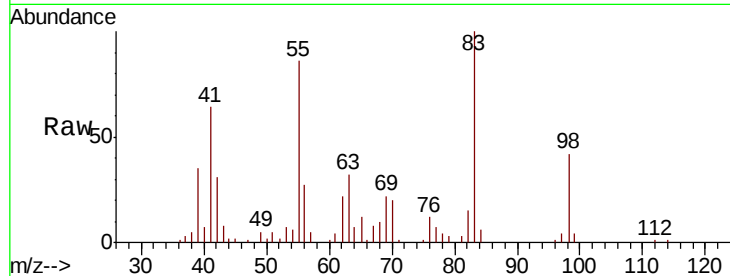
#39
Methylvlcvclohexane
Concen: 16.903 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	83.00	Resp	39620
Ion Ratio	Lower	Upper	
83	100		
55	85.7	70.2	105.2
98	42.4	34.2	51.4

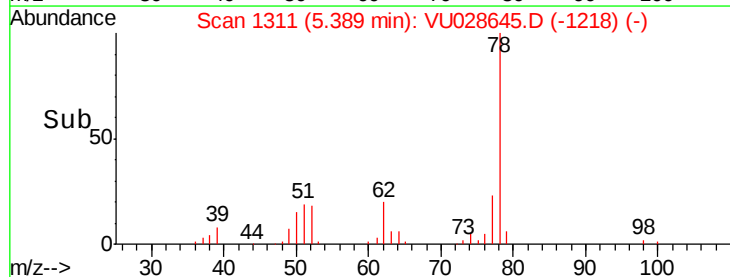
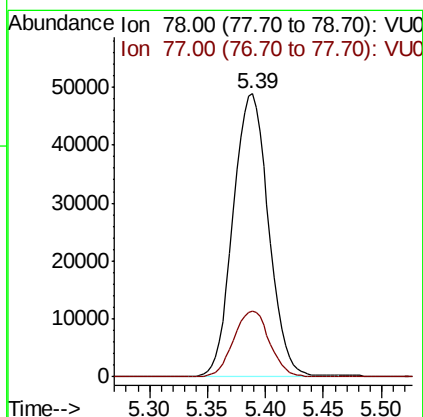
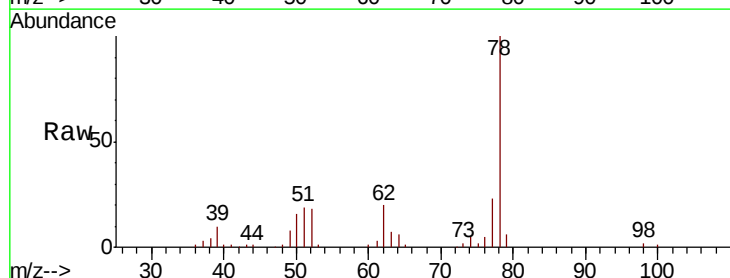
Manual Integrations
APPROVED

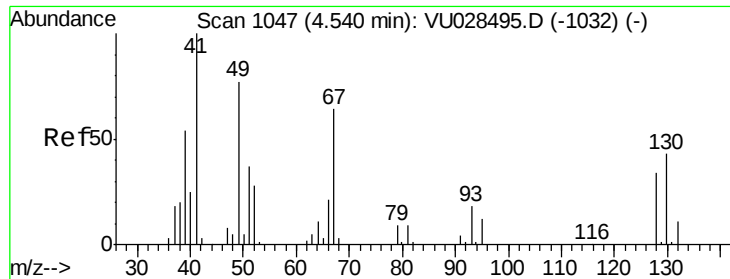
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#40
Benzene
Concen: 18.444 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	78	Resp	104367
Ion Ratio	Lower	Upper	
78	100		
77	23.2	19.9	29.9





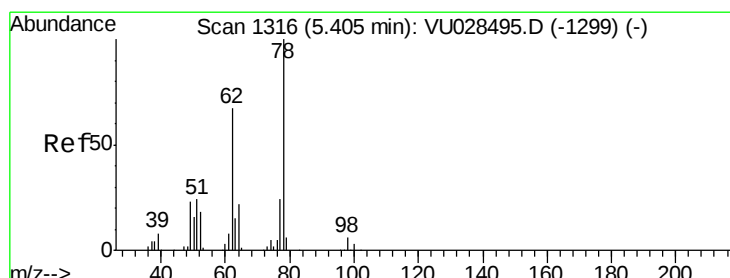
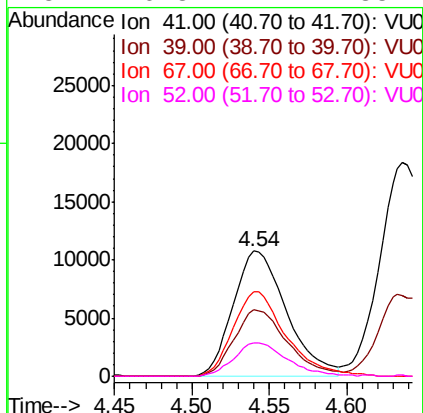
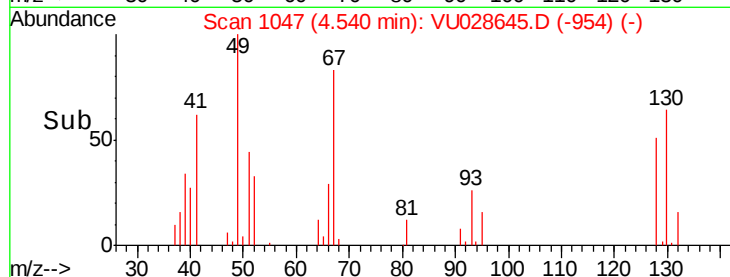
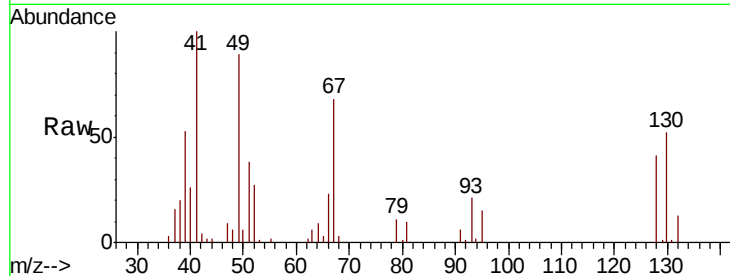
#41
Methacrylonitrile
Concen: 19.032 ug/l
RT: 4.54 min Scan# 1047
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.9	43.3	64.9	
67	66.5	53.6	80.4	
52	26.8	22.1	33.1	

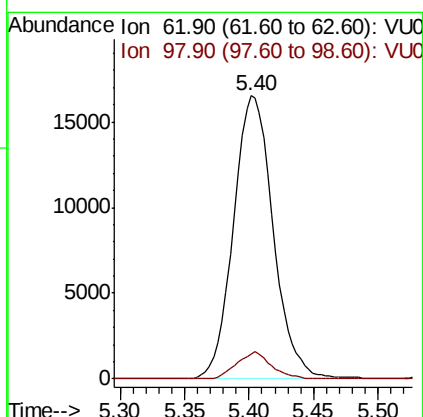
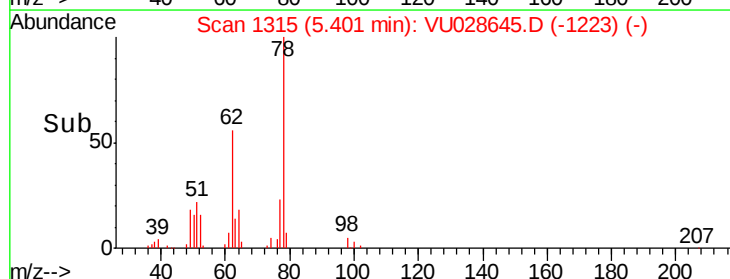
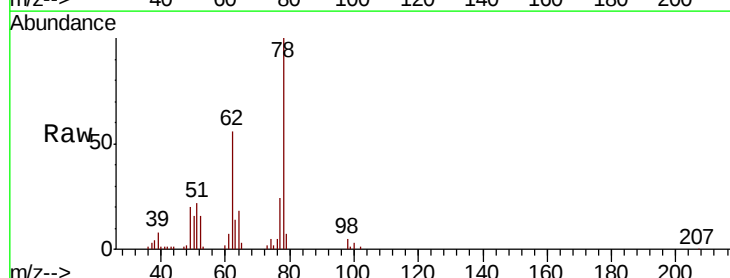
Manual Integrations
APPROVED

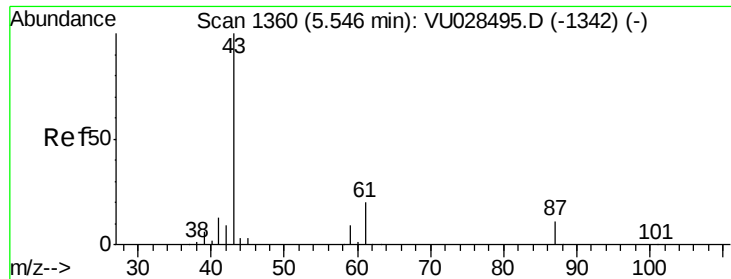
MMDadoda
12/13/2018 9:29:46 AM



#42
1,2-Dichloroethane
Concen: 17.870 ug/l
RT: 5.40 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.2	0.0	17.2	





#43

Isopropyl Acetate

Concen: 18.733 ug/l

RT: 5.55 min Scan# 1360

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

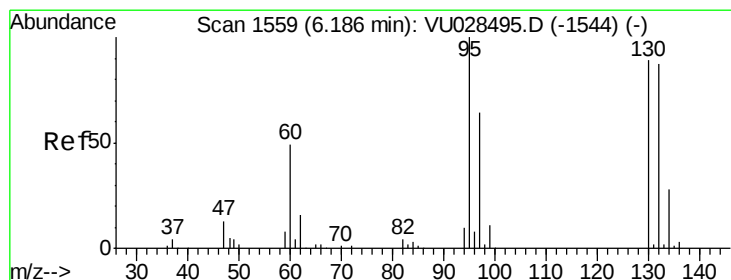
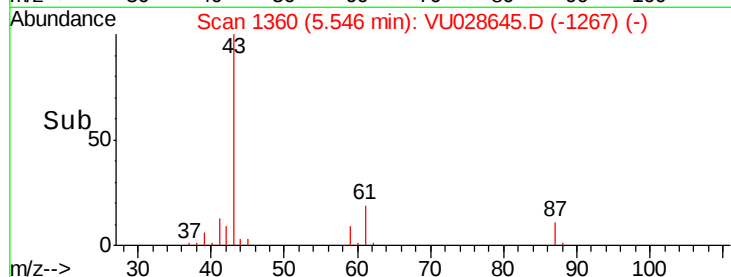
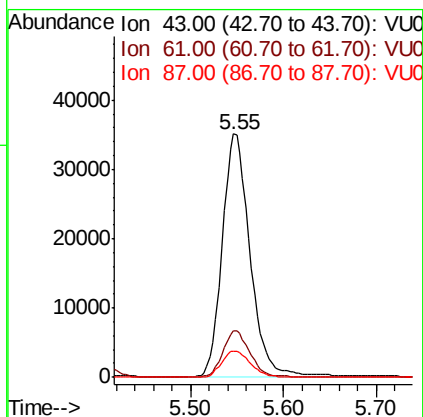
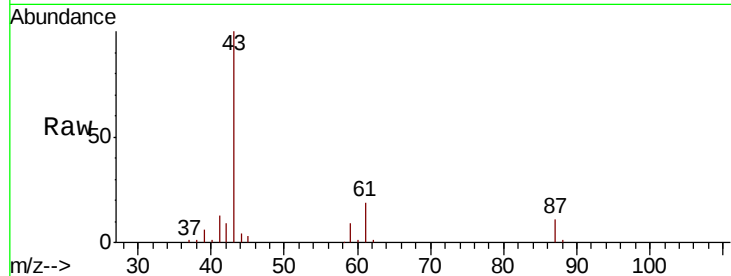
ClientSampleId :

VU1213WBSD02

Tot Ion:	43	Resp:	73590
Ion	Ratio	Lower	Upper
43	100		
61	18.7	15.5	23.3
87	11.0	8.7	13.1

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#44

Trichloroethene

Concen: 17.960 ug/l

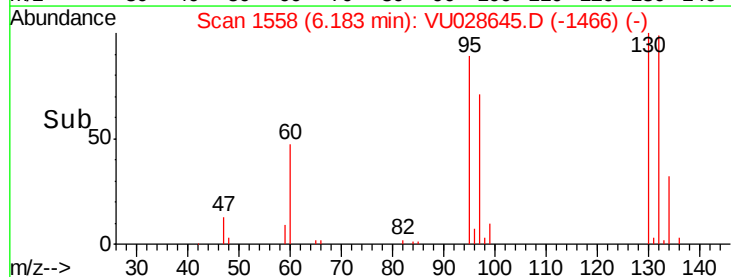
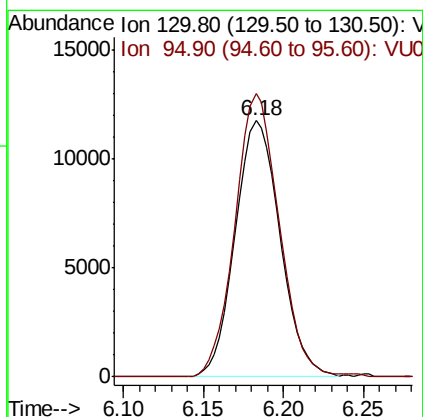
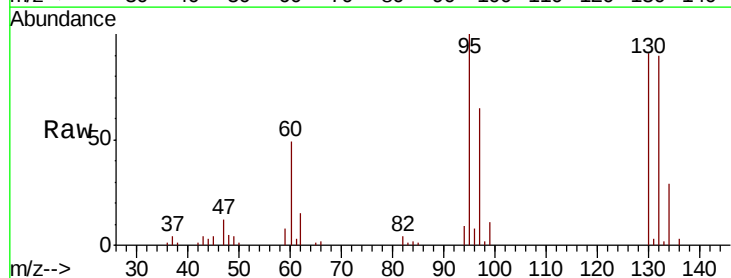
RT: 6.18 min Scan# 1558

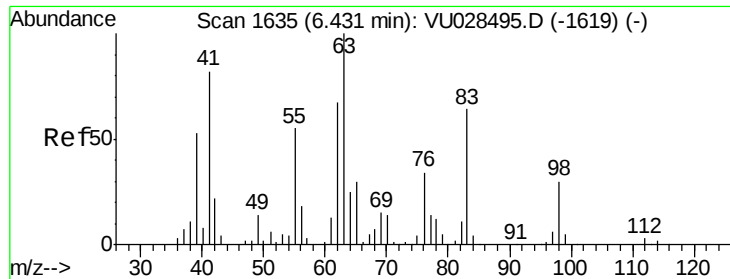
Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Tgt Ion:	130	Resp:	22597
Ion	Ratio	Lower	Upper
130	100		
95	110.4	0.0	224.0





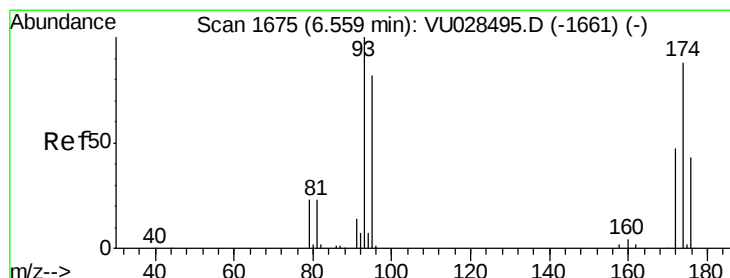
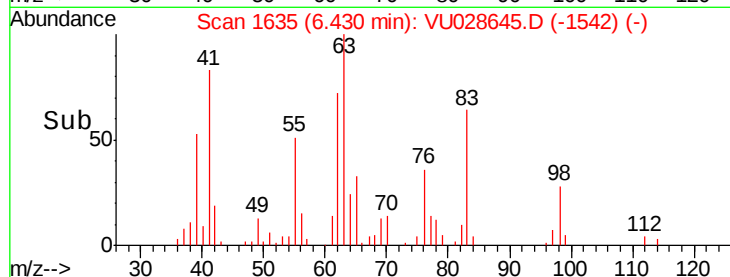
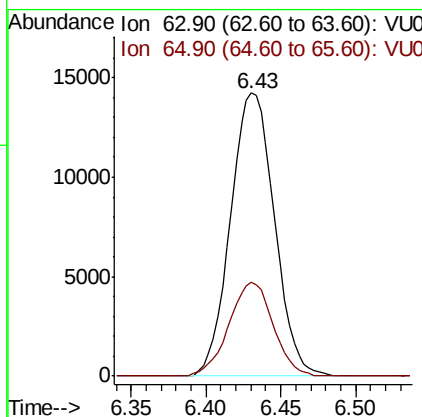
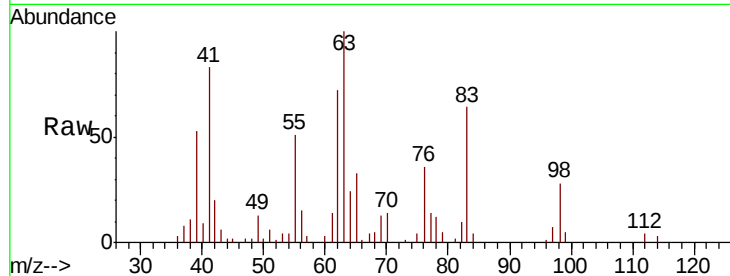
#45
 1,2-Dichloropropane
 Concen: 18.286 ug/l
 RT: 6.43 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBSD02

Tot Ion: 63 Resp: 29097
 Ion Ratio Lower Upper
 63 100
 65 33.1 24.2 36.4

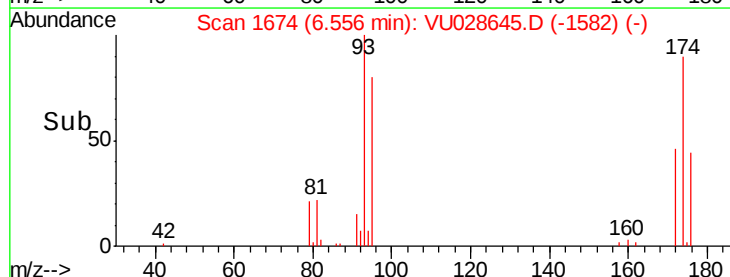
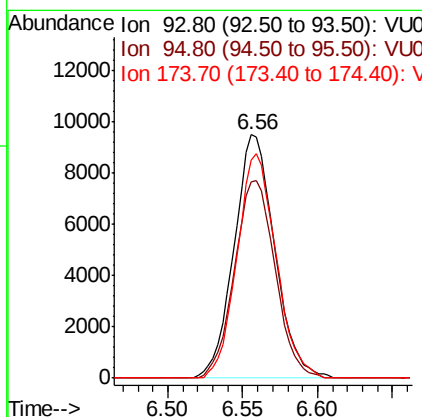
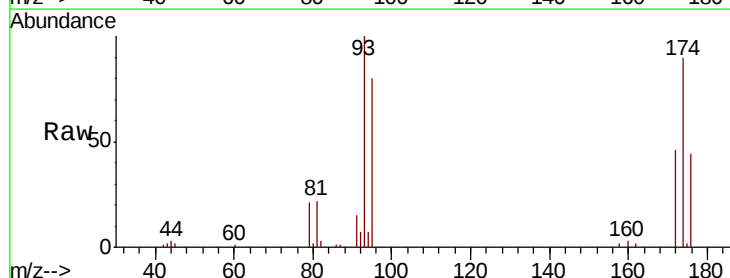
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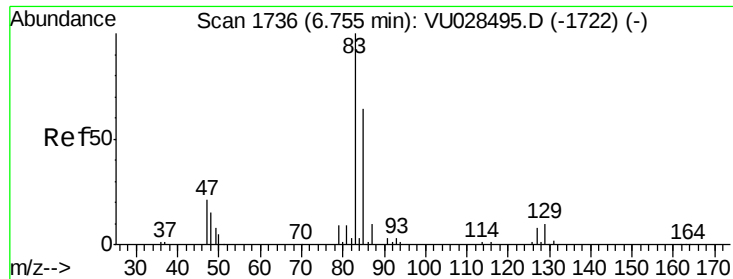
MMDadoda
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#46
 Dibromomethane
 Concen: 18.998 ug/l
 RT: 6.56 min Scan# 1674
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Tgt Ion: 93 Resp: 17937
 Ion Ratio Lower Upper
 93 100
 95 81.2 65.4 98.2
 174 88.6 72.2 108.4





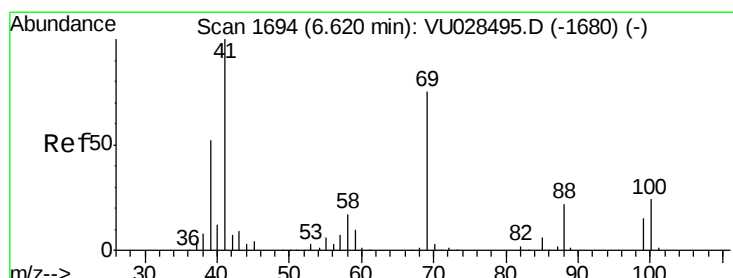
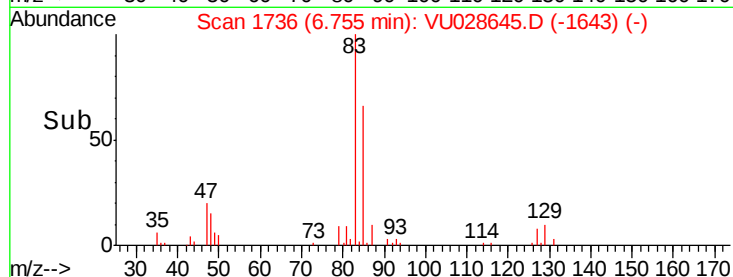
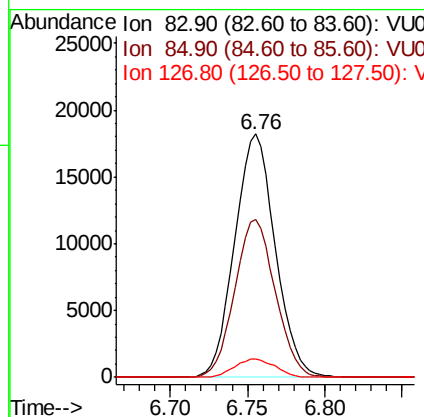
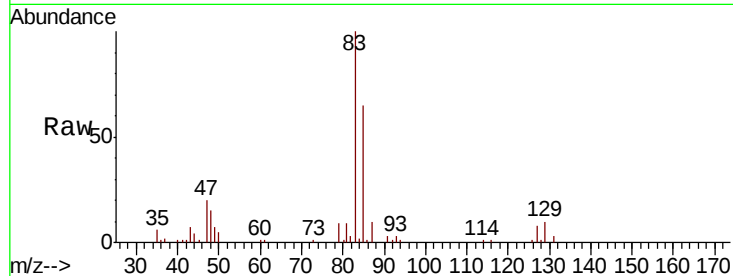
#47
Bromodichloromethane
Concen: 18.035 ug/l
RT: 6.76 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
83	100	33135		
85	64.7		51.5	77.3
127	7.7		6.2	9.4

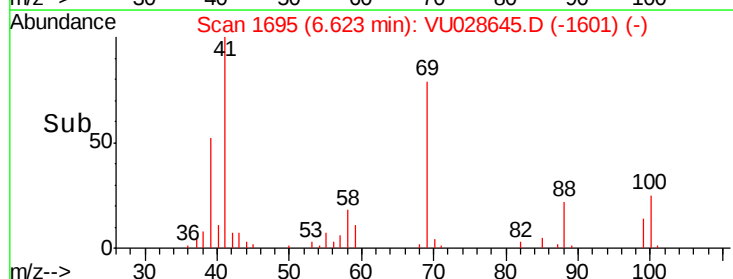
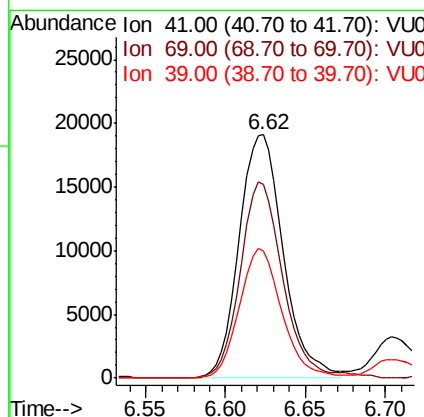
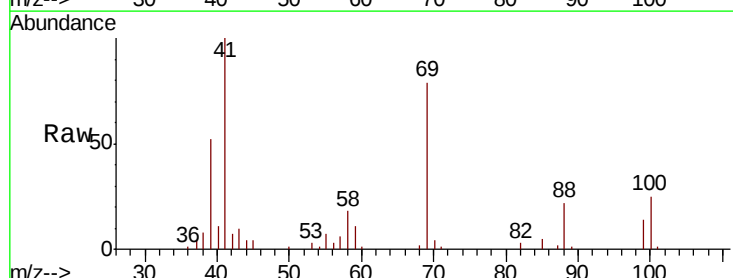
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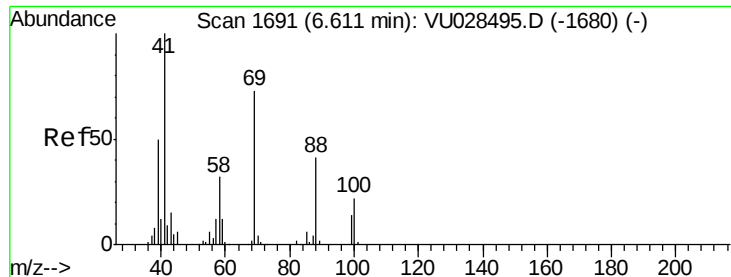
MMDadoda
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#48
Methyl methacrylate
Concen: 18.478 ug/l
RT: 6.62 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	36099		
69	78.1		60.4	90.6
39	51.2		41.1	61.7





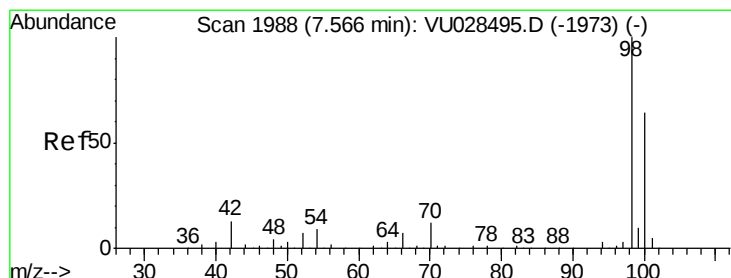
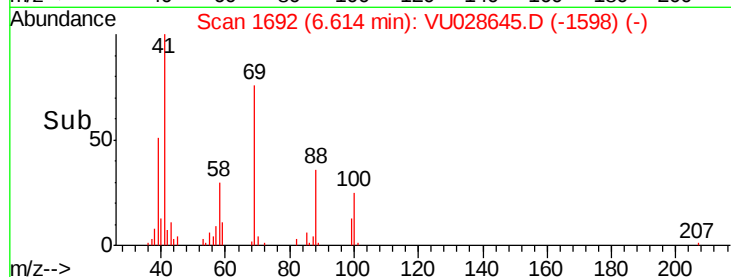
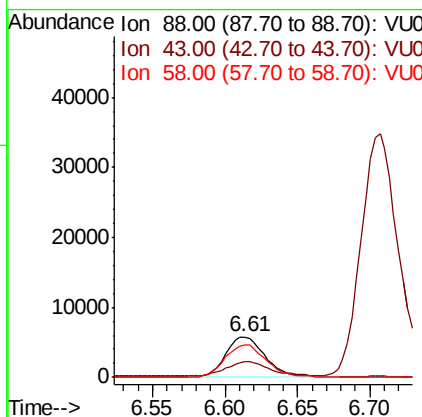
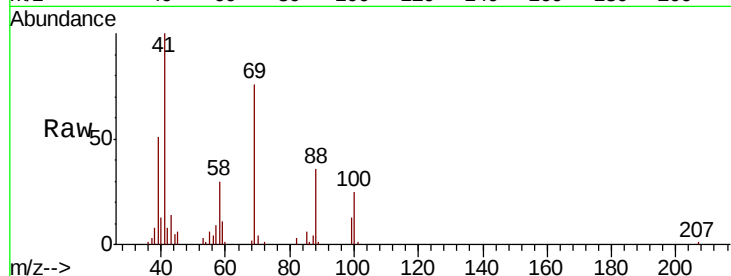
#49
1,4-Dioxane
Concen: 357.087 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.9	30.9	46.3
58	82.4	62.4	93.6

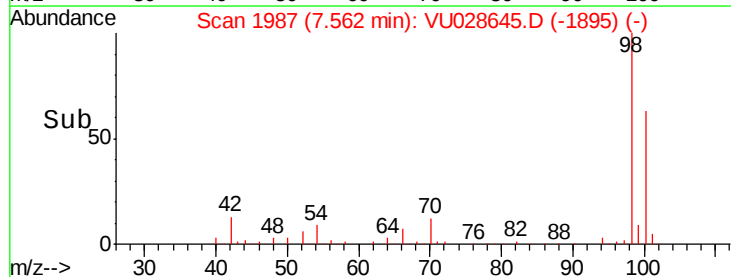
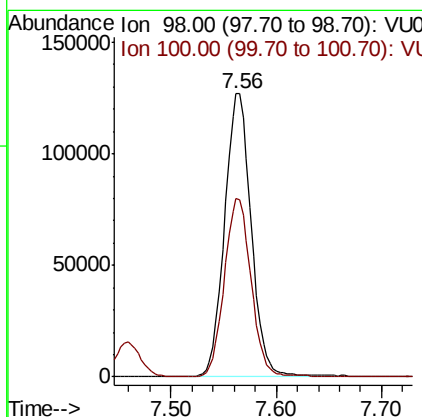
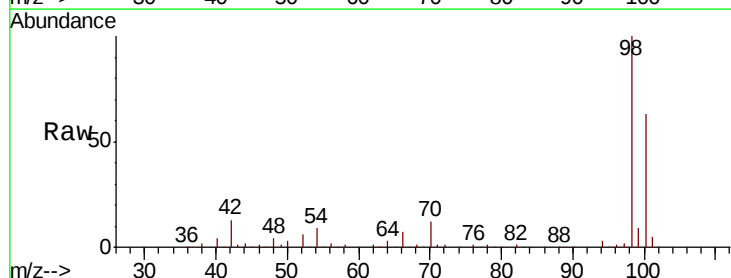
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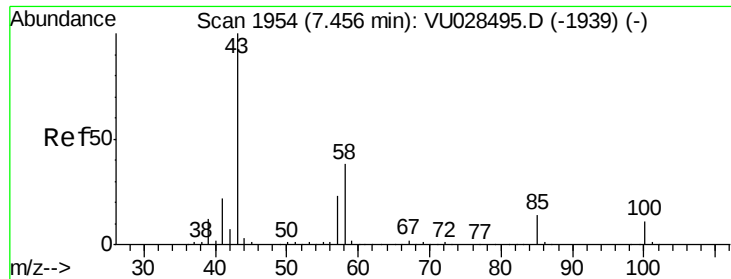
MMDadoda
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#50
Toluene-d8
Concen: 50.809 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
98	100		
100	62.8	51.0	76.6





#51

4-Methyl-2-Pentanone

Concen: 93.591 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBSD02

Tot Ion: 43 Resp: 231889

Ion Ratio Lower Upper

43 100

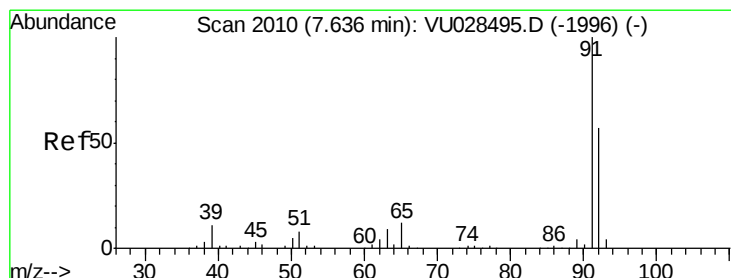
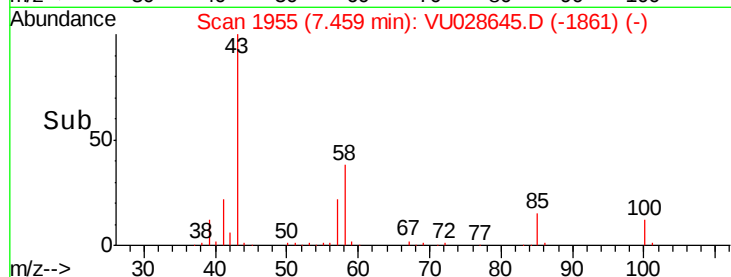
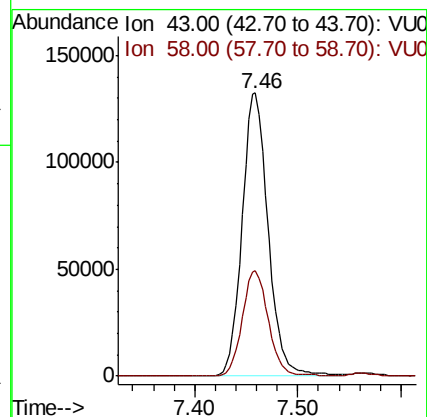
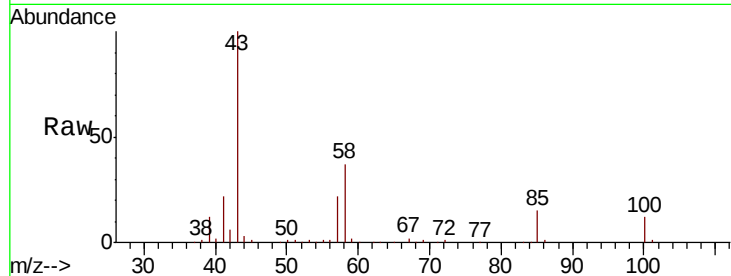
58 37.5 30.2 45.2

Manual Integrations

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12/13/2018 9:29:46 AM



#52

Toluene

Concen: 17.753 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028645.D

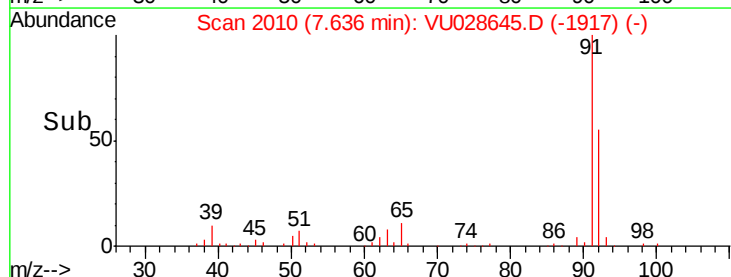
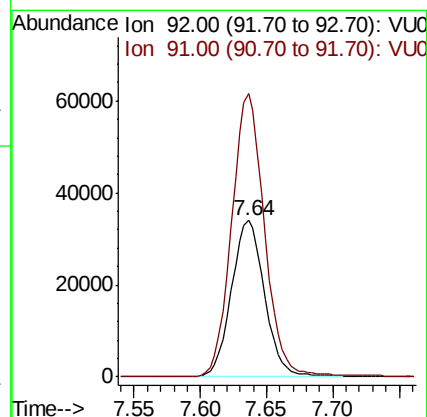
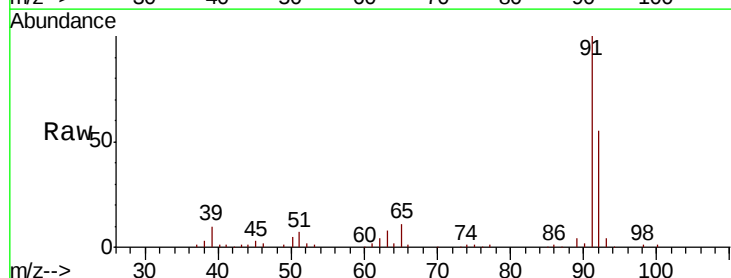
Acq: 12 Dec 2018 12:21

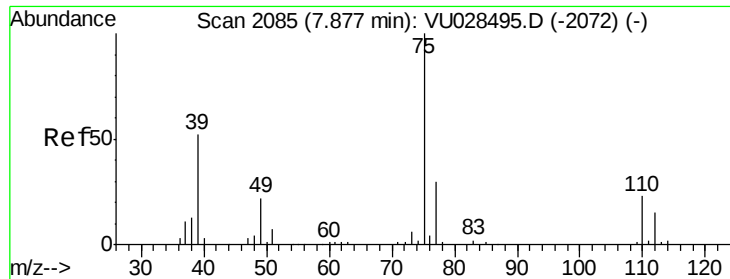
Tgt Ion: 92 Resp: 59121

Ion Ratio Lower Upper

92 100

91 180.7 140.2 210.4





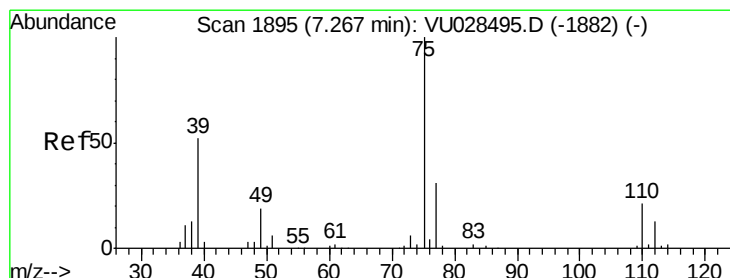
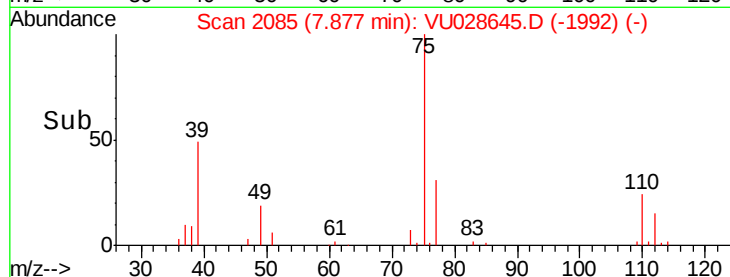
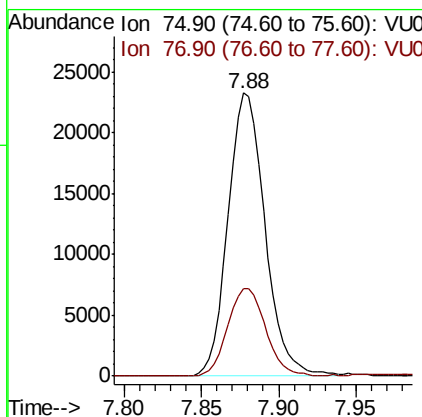
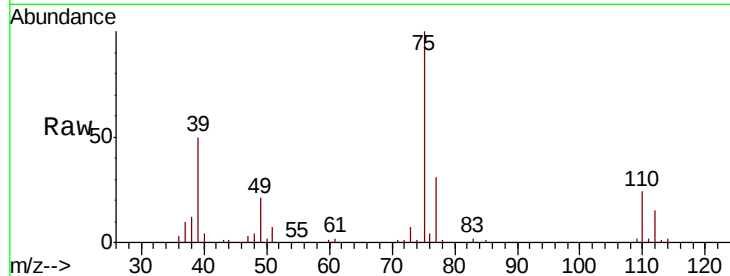
#53
t-1,3-Dichloropropene
Concen: 17.633 ug/l
RT: 7.88 min Scan# 2085
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.2	36.4

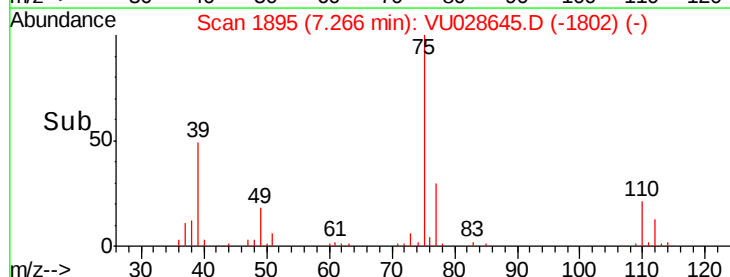
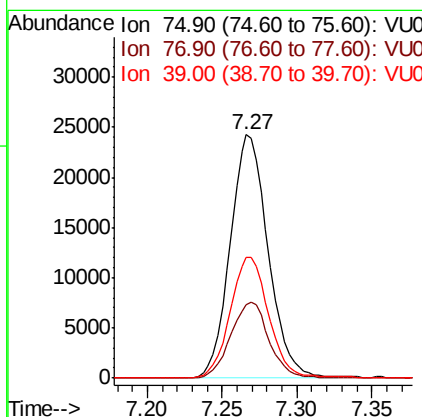
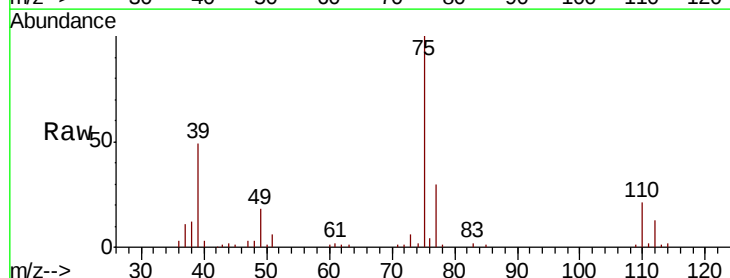
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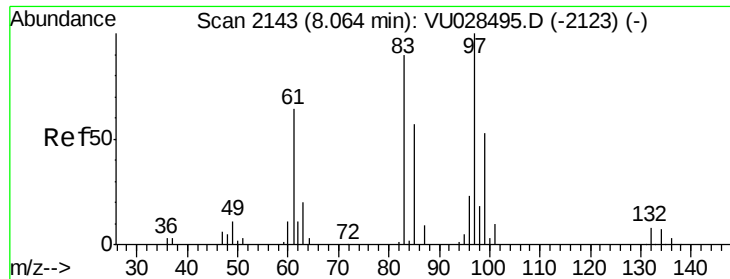
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#54
cis-1,3-Dichloropropene
Concen: 18.038 ug/l
RT: 7.27 min Scan# 1895
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.0	37.4
39	49.5	41.3	61.9





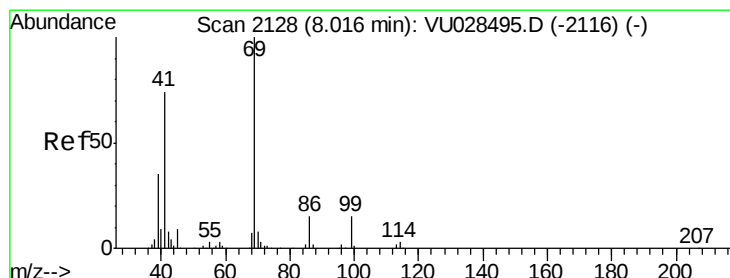
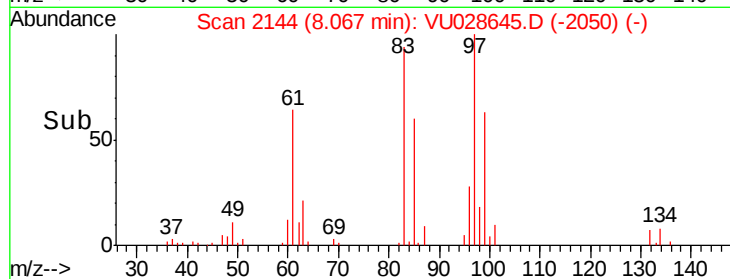
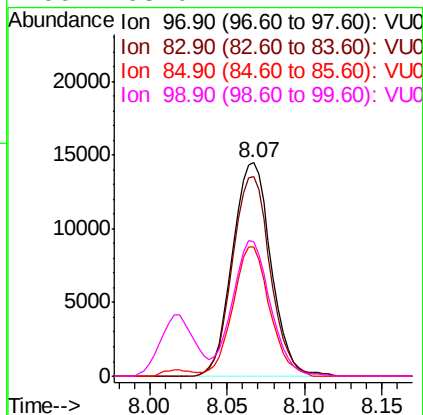
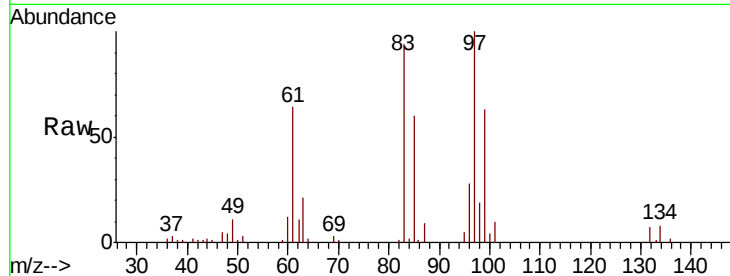
#55
 1,1,2-Trichloroethane
 Concen: 19.080 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. 0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBSD02

Tot Ion:	97	Resp:	25117
Ion	Ratio	Lower	Upper
97	100		
83	93.7	72.4	108.6
85	60.3	46.0	69.0
99	63.0	47.4	71.2

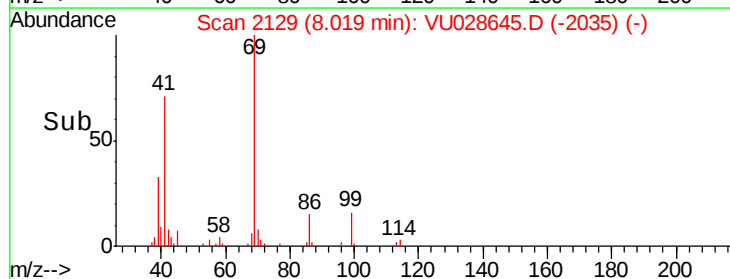
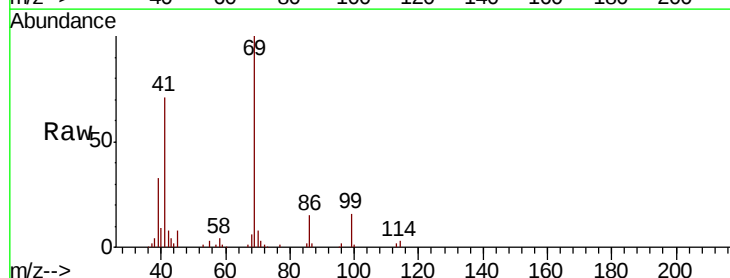
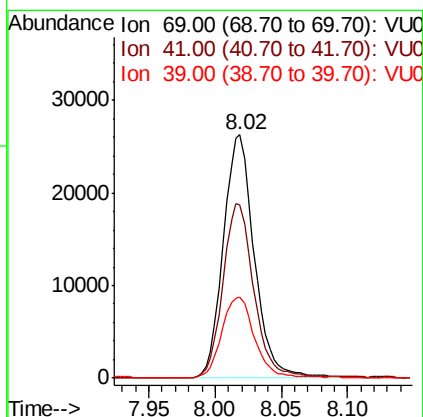
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#56
 Ethyl methacrylate
 Concen: 18.980 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Tgt Ion:	69	Resp:	42786
Ion	Ratio	Lower	Upper
69	100		
41	72.0	59.1	88.7
39	35.0	28.4	42.6





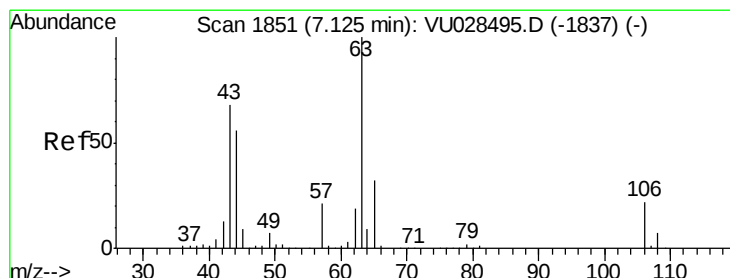
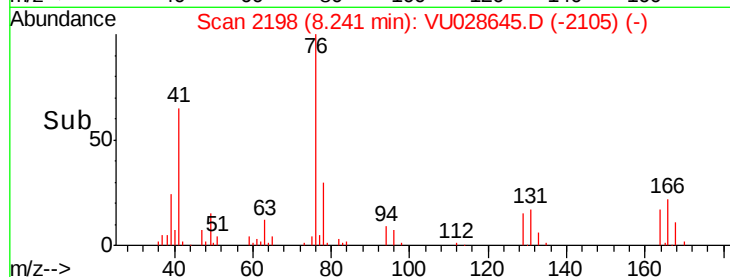
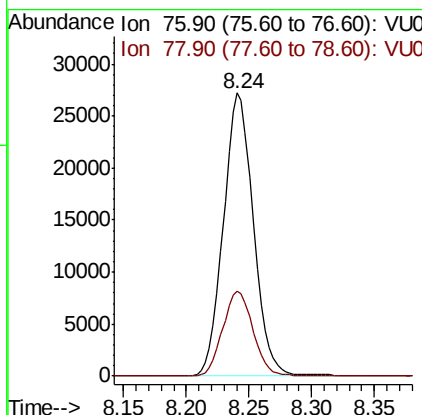
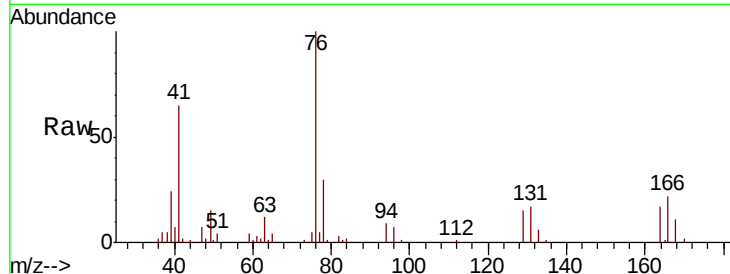
#57
 1,3-Dichloropropane
 Concen: 18.479 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	30.2	25.2	37.8

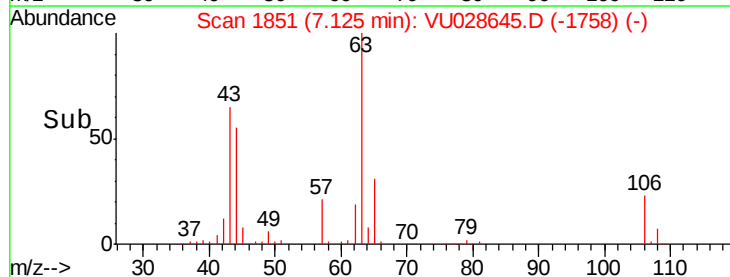
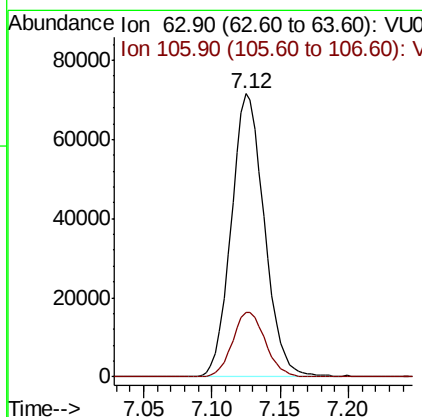
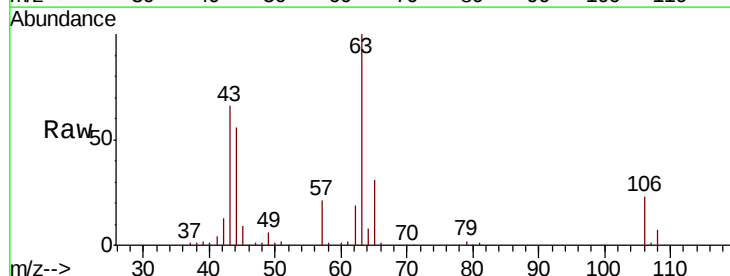
Manual Integrations
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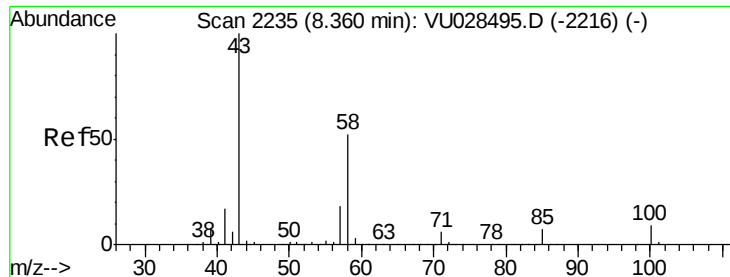
MMDadoda
 12/13/2018 9:29:46 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 104.501 ug/l
 RT: 7.12 min Scan# 1851
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
63	100		
106	22.8	17.8	26.6





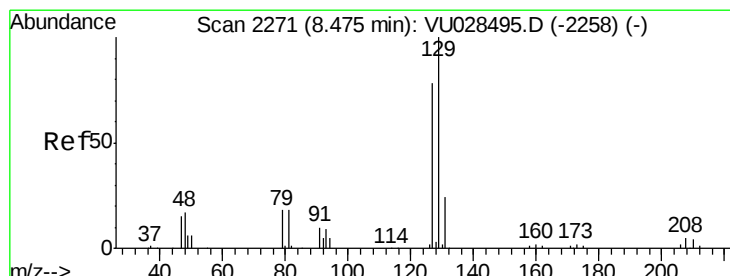
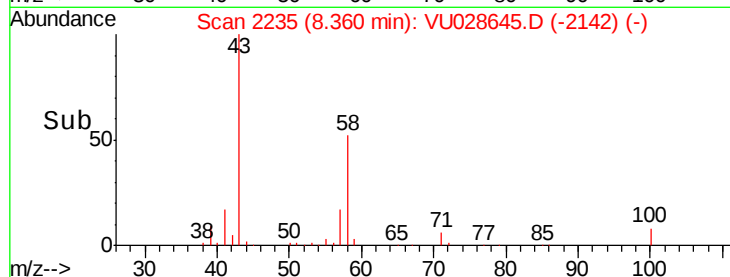
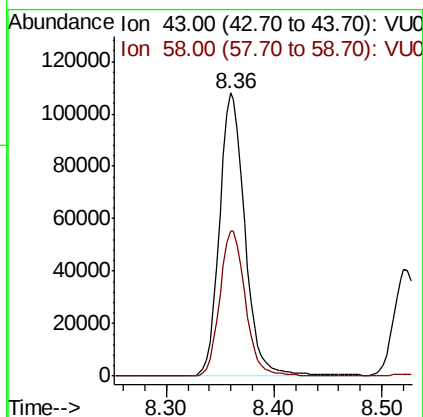
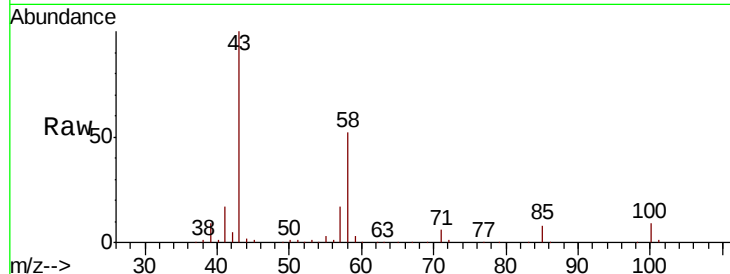
#59
2-Hexanone
Concen: 89.788 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion: 43 Resp: 176328
Ion Ratio Lower Upper
43 100
58 52.0 25.9 77.6

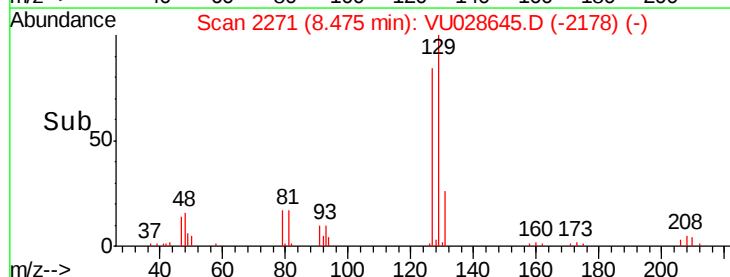
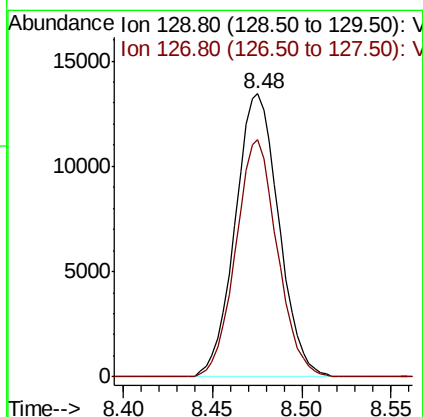
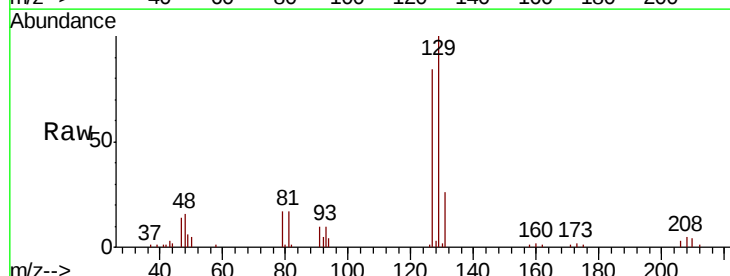
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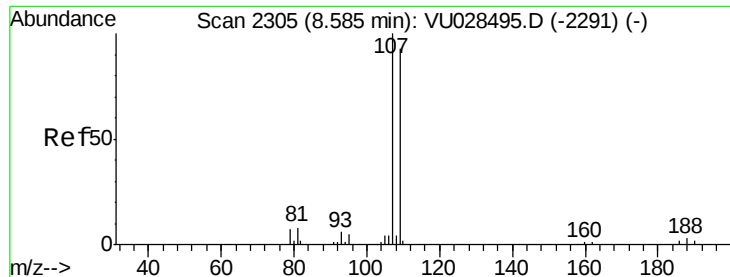
MMDadoda
12/13/2018 9:29:46 AM



#60
Dibromochloromethane
Concen: 17.848 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion: 129 Resp: 23003
Ion Ratio Lower Upper
129 100
127 79.6 39.1 117.3





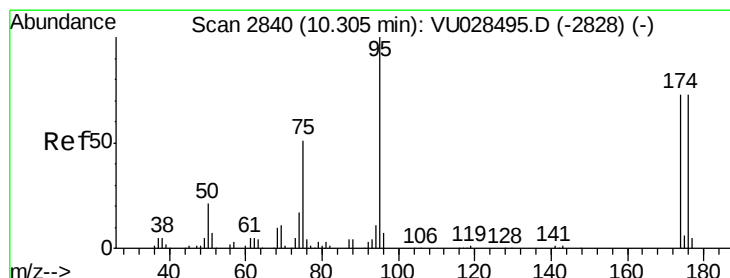
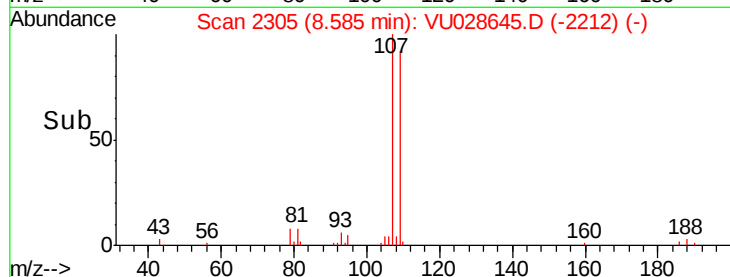
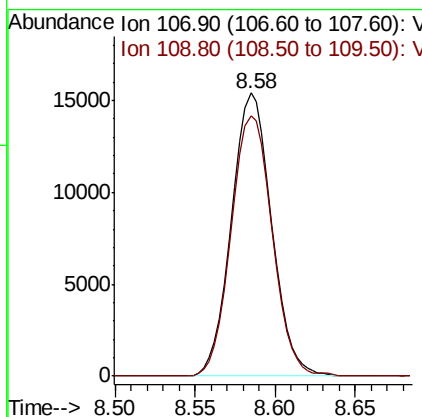
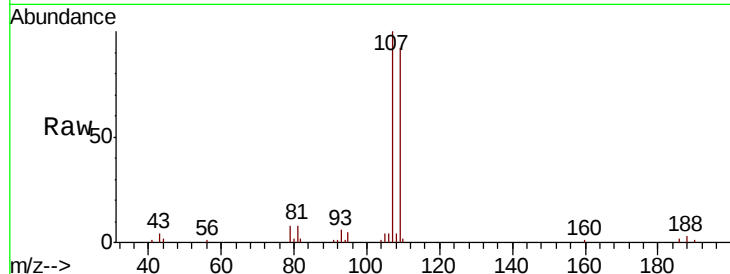
#61
 1,2-Dibromoethane
 Concen: 19.056 ug/l
 RT: 8.58 min Scan# 2305
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.5	111.7

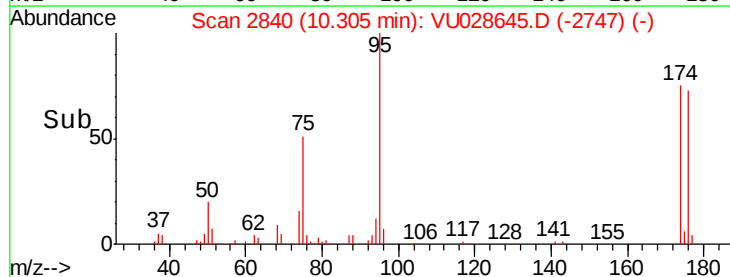
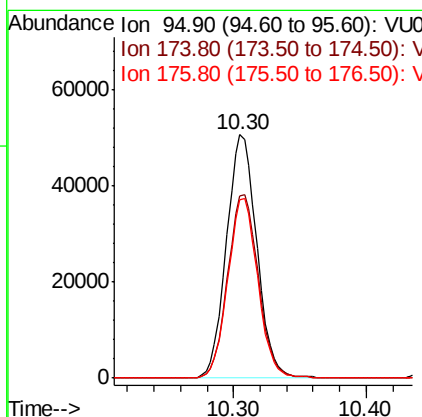
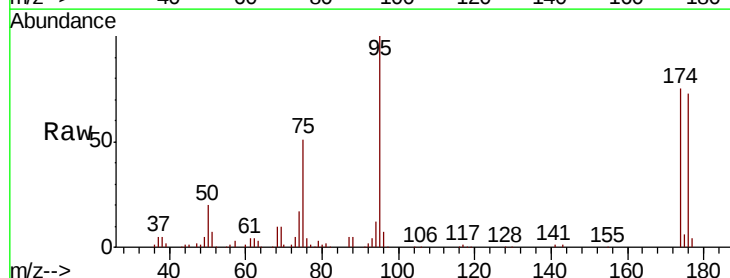
Manual Integrations
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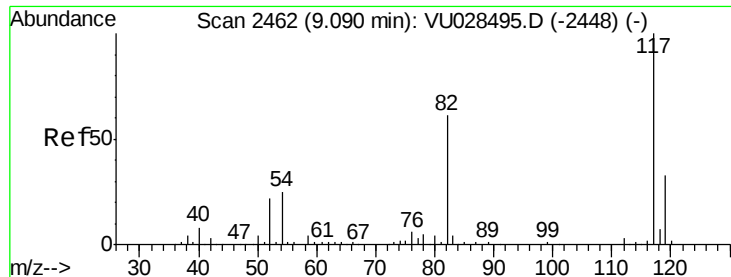
MMDadoda
 12/13/2018 9:29:46 AM



#62
 4-Bromofluorobenzene
 Concen: 49.328 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
95	100		
174	76.3	0.0	150.4
176	73.1	0.0	145.2





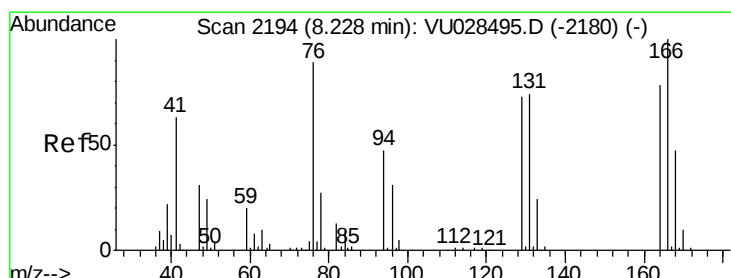
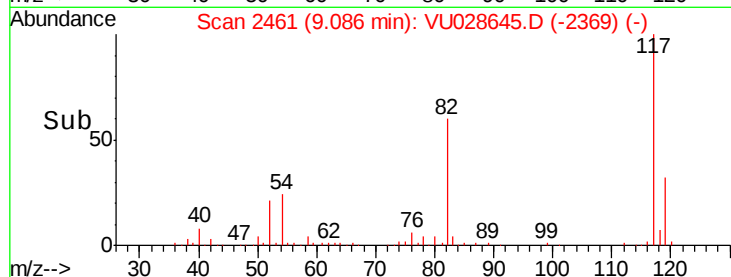
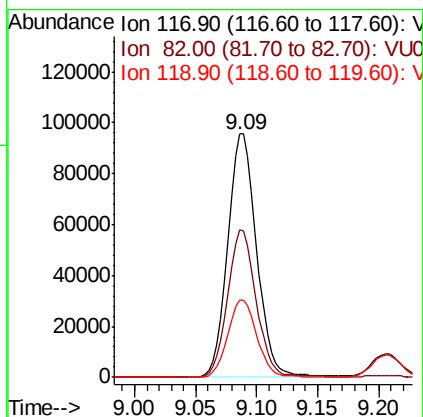
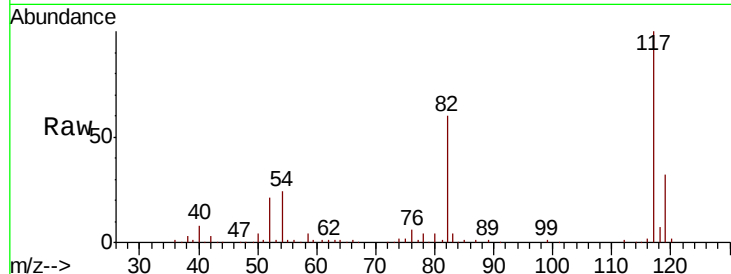
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.4	48.9	73.3
119	31.8	26.2	39.4

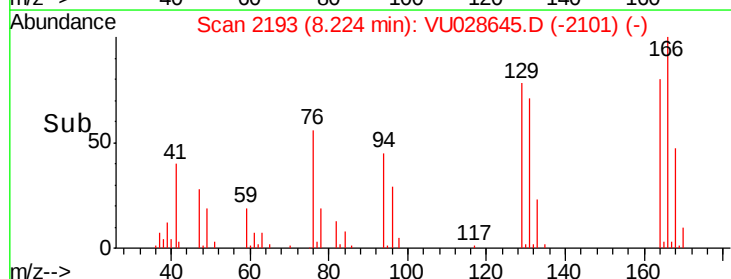
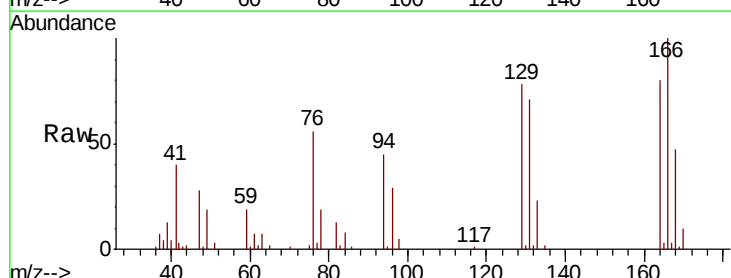
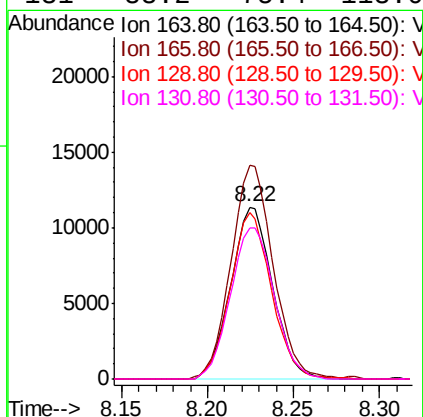
Manual Integrations
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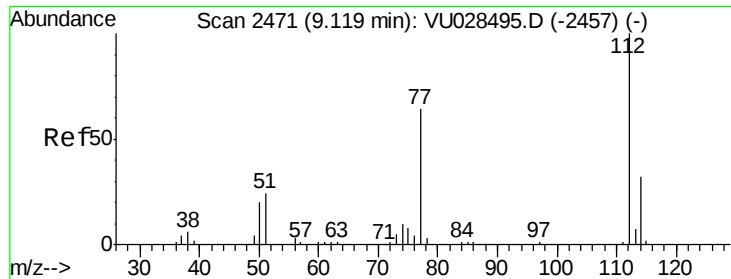
MMDadoda
12/13/2018 9:29:46 AM



#64
Tetrachloroethene
Concen: 18.110 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.2	101.9	152.9
129	97.0	74.9	112.3
131	88.2	75.4	113.0





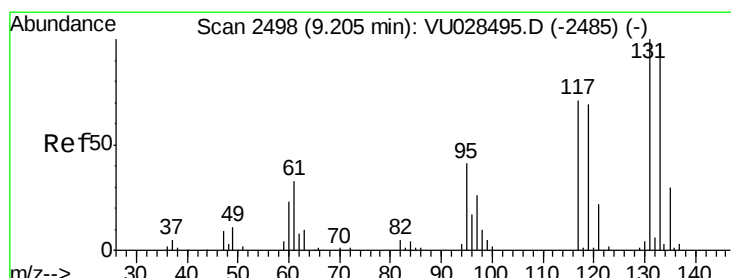
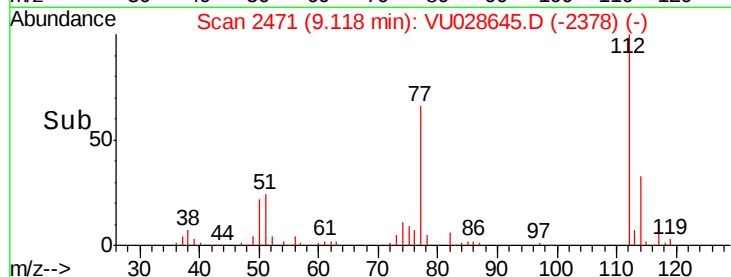
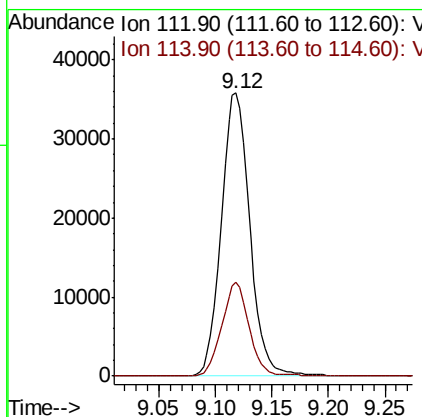
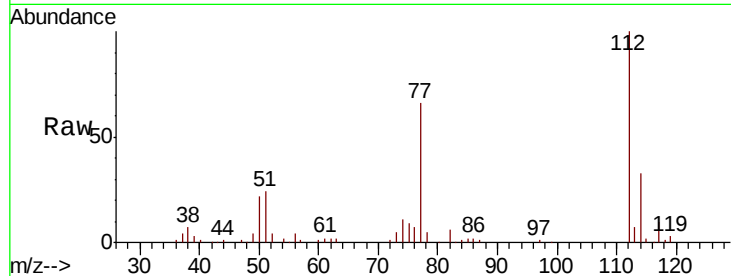
#65
Chlorobenzene
Concen: 18.564 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion:112 Resp: 62828
Ion Ratio Lower Upper
112 100
114 33.3 25.3 37.9

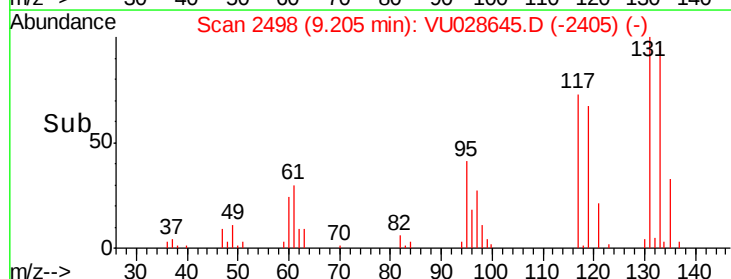
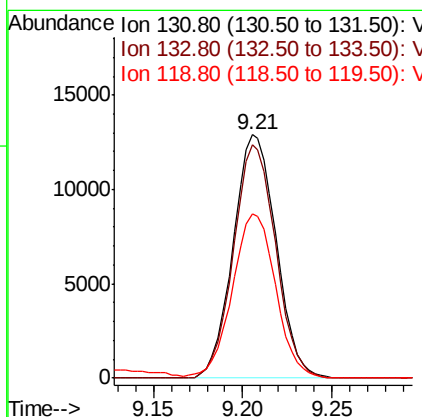
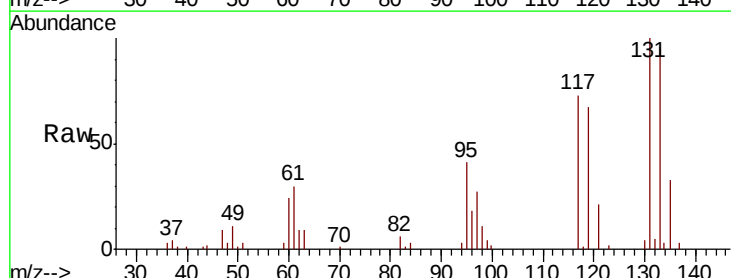
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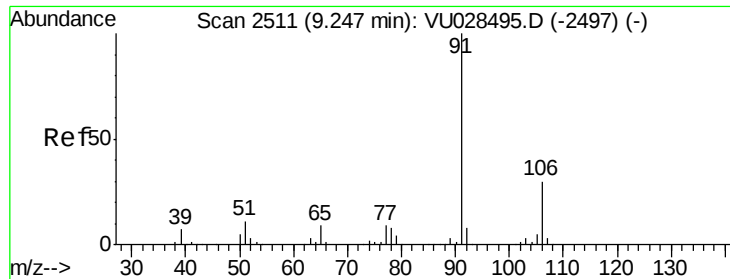
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.984 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion:131 Resp: 21598
Ion Ratio Lower Upper
131 100
133 94.0 48.0 144.0
119 68.2 34.6 103.9





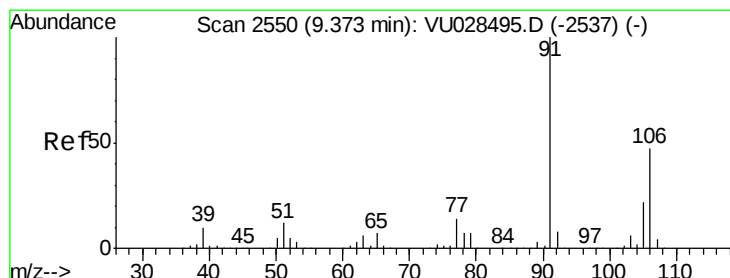
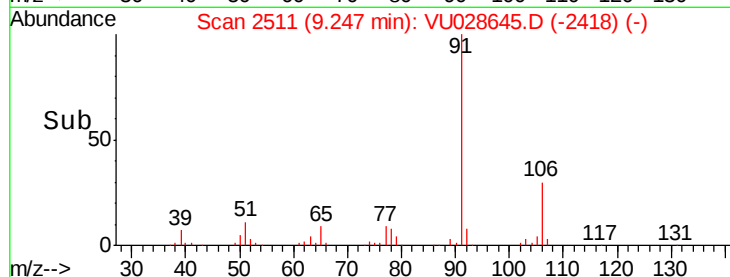
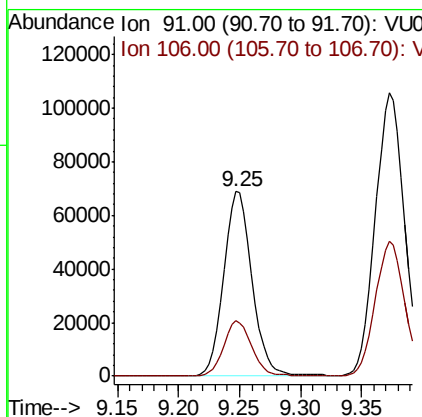
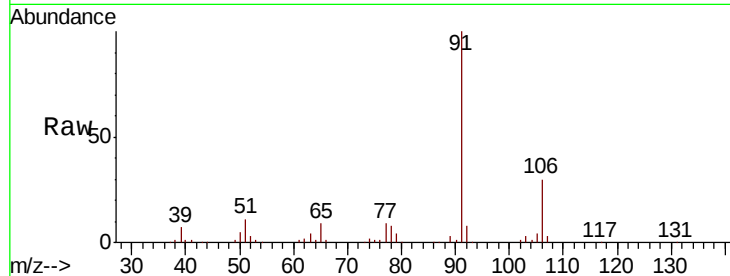
#67
Ethyl Benzene
Concen: 18.148 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion: 91 Resp: 112909
Ion Ratio Lower Upper
91 100
106 29.8 24.1 36.1

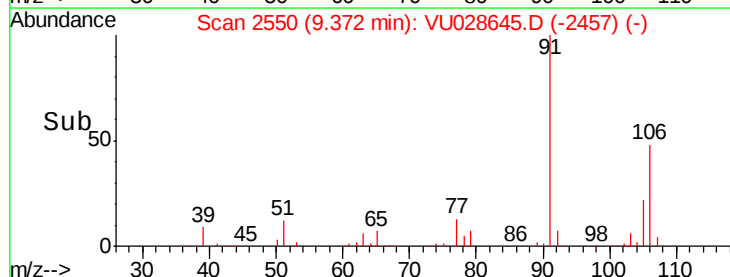
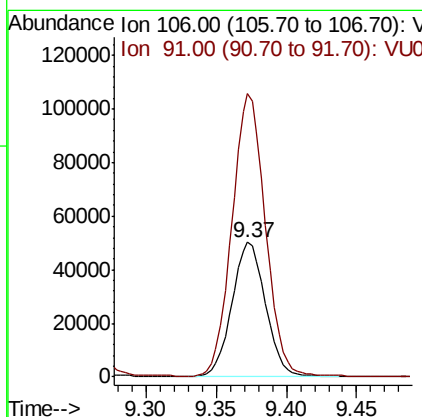
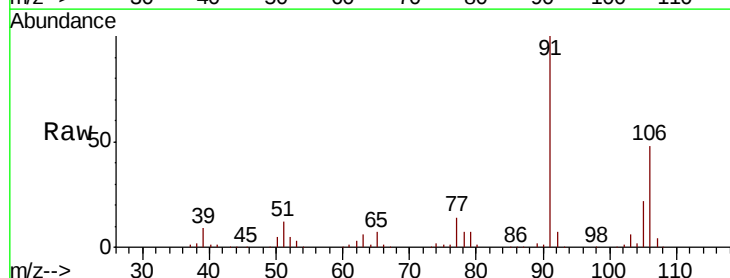
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#68
m/p-Xylenes
Concen: 37.200 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion: 106 Resp: 84217
Ion Ratio Lower Upper
106 100
91 209.5 167.4 251.0





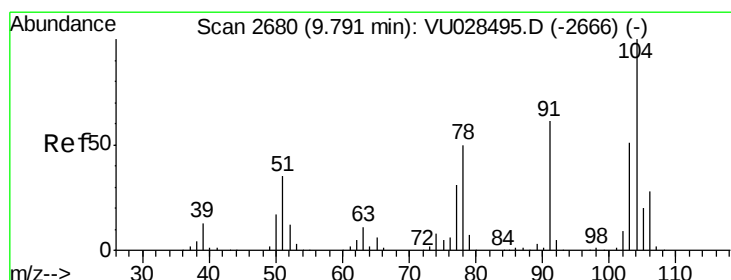
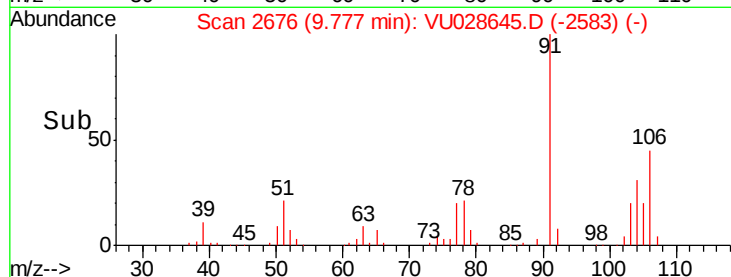
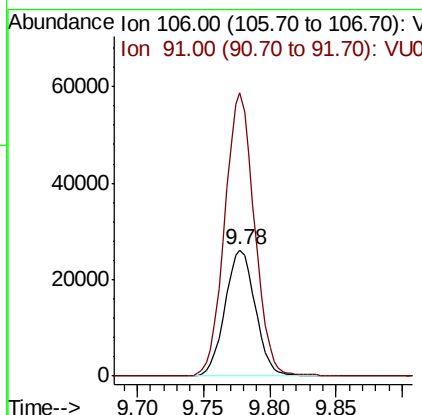
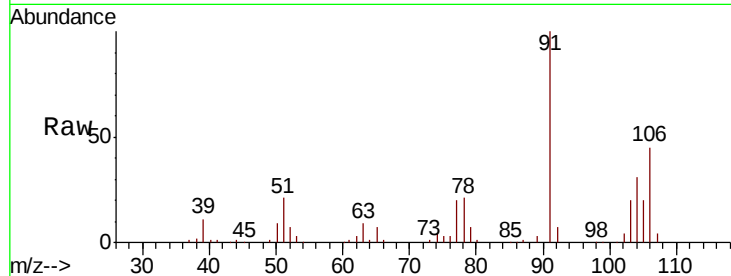
#69
o-Xylene
Concen: 18.849 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion:106 Resp: 41468
Ion Ratio Lower Upper
106 100
91 221.1 111.3 334.0

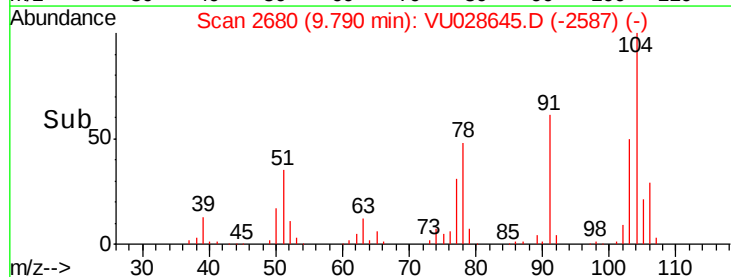
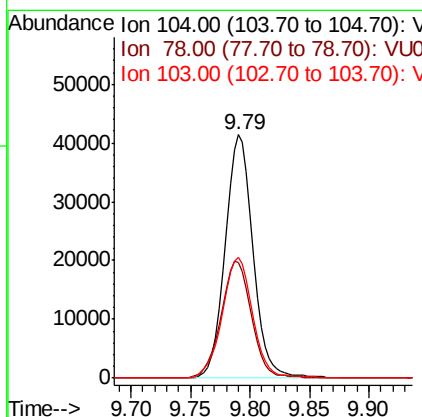
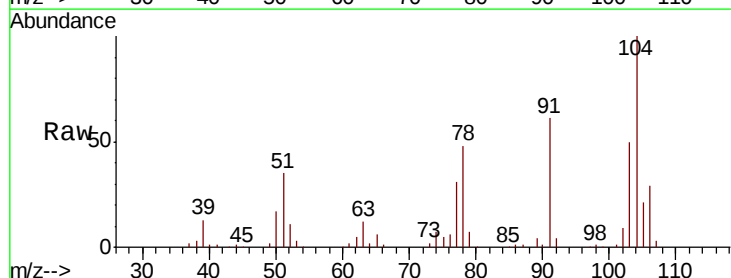
Manual Integrations
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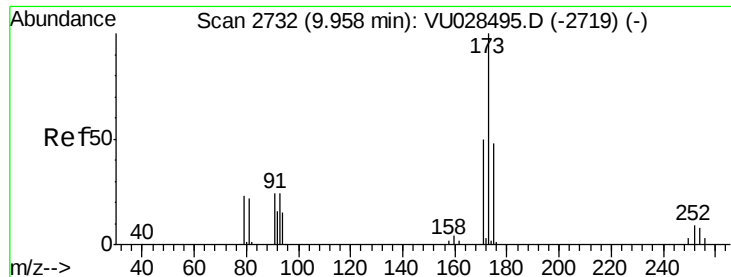
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#70
Styrene
Concen: 18.455 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion:104 Resp: 67193
Ion Ratio Lower Upper
104 100
78 52.6 43.0 64.6
103 54.2 44.2 66.4





#71

Bromoform

Concen: 19.629 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBSD02

Tot Ion:173 Resp: 18047

Ion Ratio Lower Upper

173 100

175 47.2 23.9 71.8

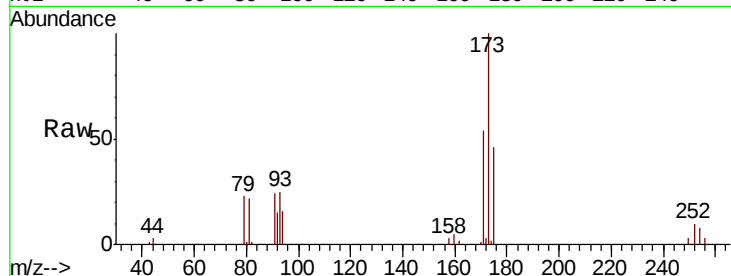
254 0.0 0.0 0.0

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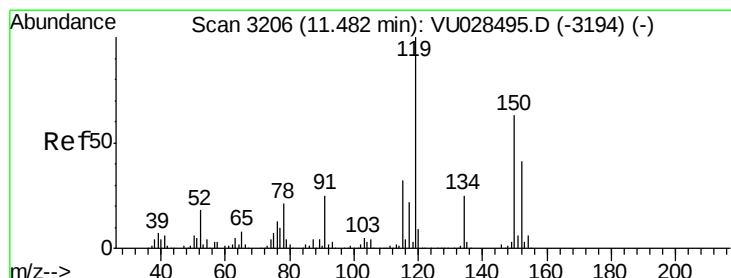
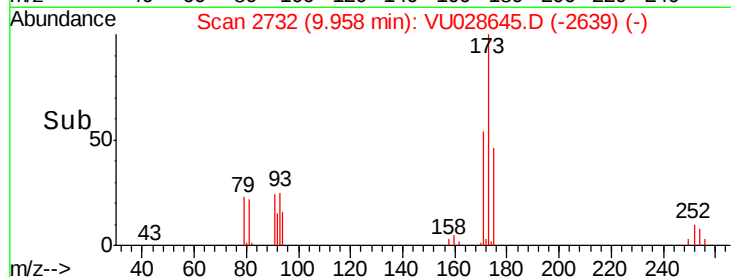
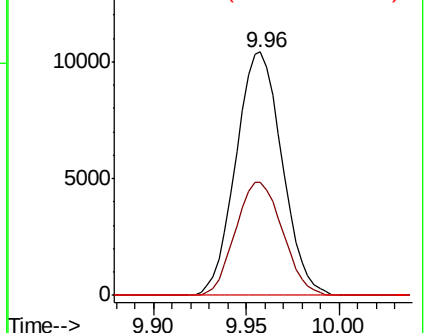
12/13/2018 9:29:46 AM



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: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

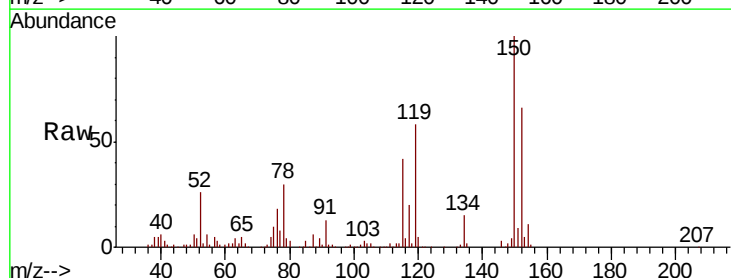
Tgt Ion:152 Resp: 75930

Ion Ratio Lower Upper

152 100

115 67.7 42.7 128.1

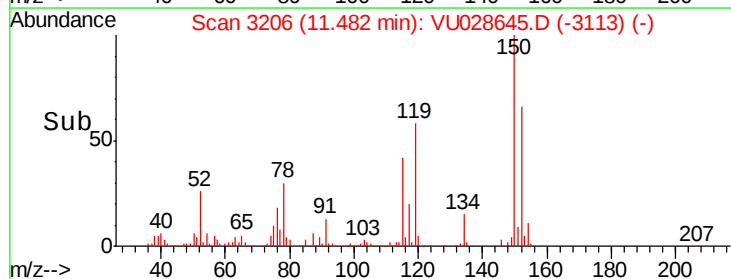
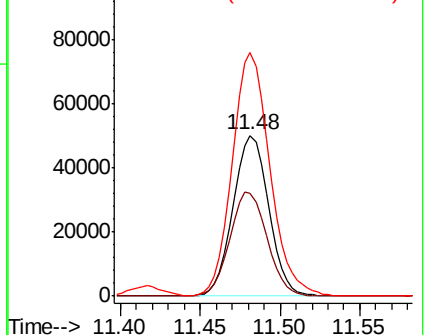
150 159.8 0.0 346.0

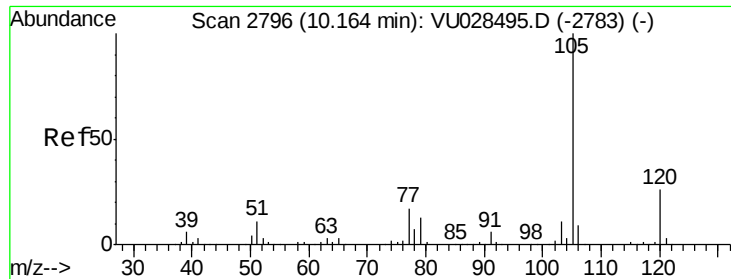


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 18.498 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBSD02

Tot Ion: 105 Resp: 107778

Ion Ratio Lower Upper

105 100

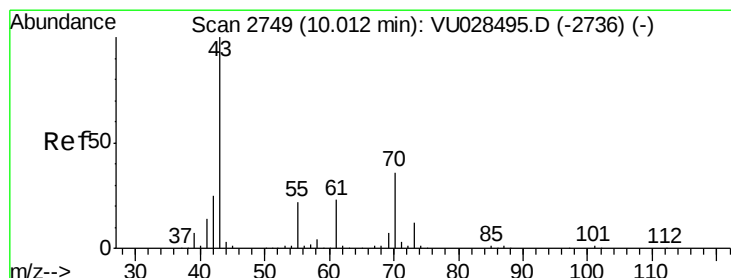
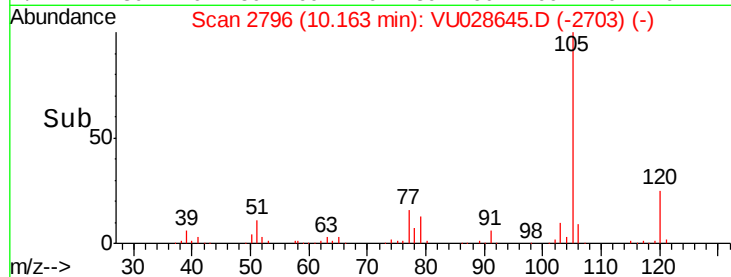
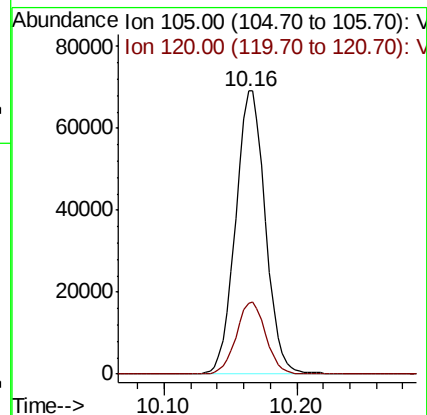
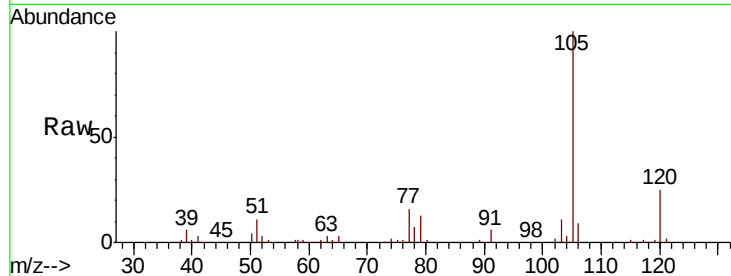
120 25.2 12.9 38.6

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#74

N-ethyl acetate

Concen: 19.281 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Tgt Ion: 43 Resp: 64800

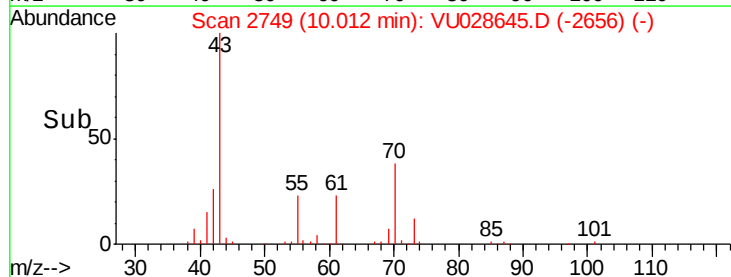
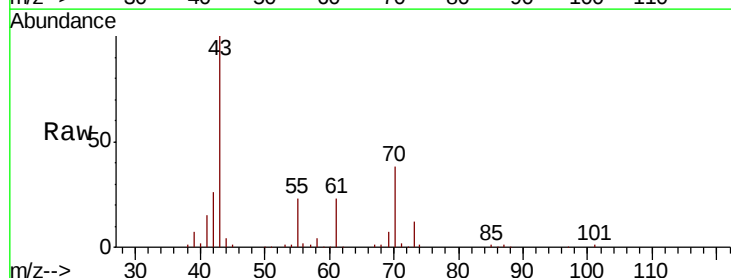
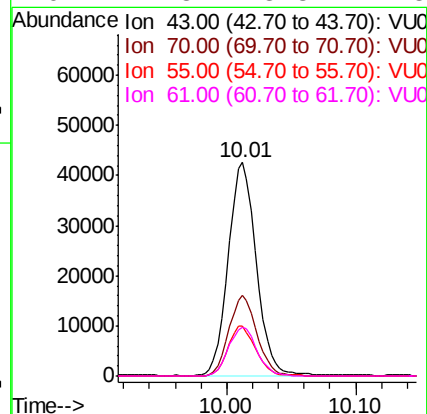
Ion Ratio Lower Upper

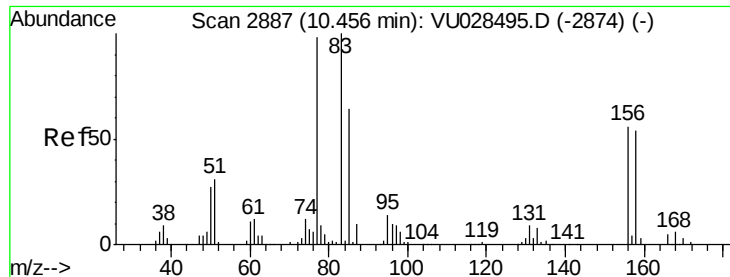
43 100

70 37.4 29.3 43.9

55 22.9 18.0 27.0

61 22.8 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 19.836 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBSD02

Tot Ion: 83 Resp: 44397

Ion Ratio Lower Upper

83 100

131 8.4 4.2 12.4

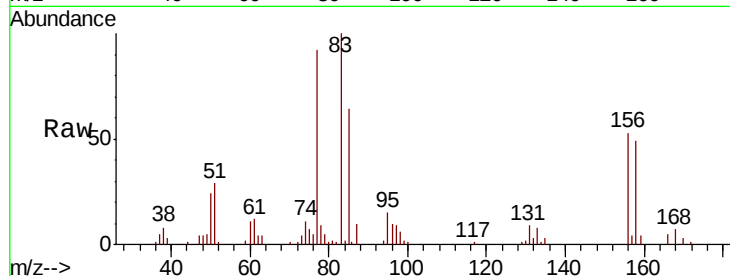
85 64.2 31.8 95.4

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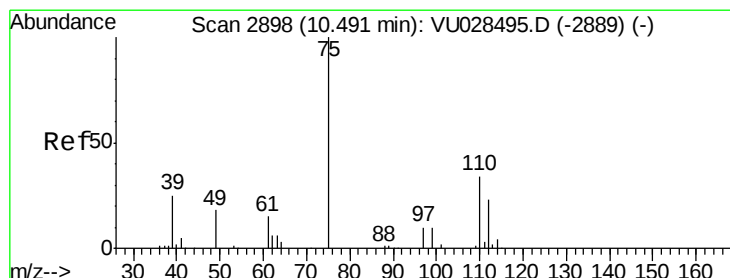
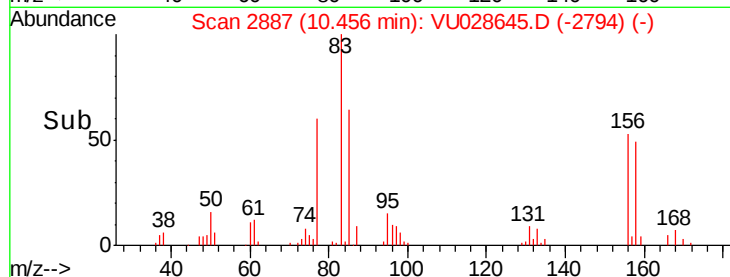
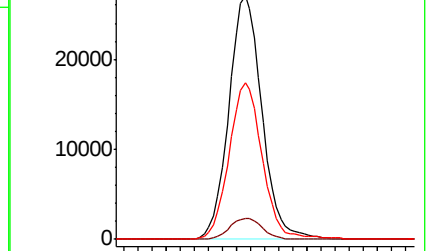
12/13/2018 9:29:46 AM



Abundance Ion 82.90 (82.60 to 83.60): VU028495.D (-2874) (-)

Ion 130.80 (130.50 to 131.50): VU028495.D (-2874) (-)

Ion 84.90 (84.60 to 85.60): VU028495.D (-2874) (-)



#76

1,2,3-Trichloropropane

Concen: 19.912 ug/l m

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU028645.D

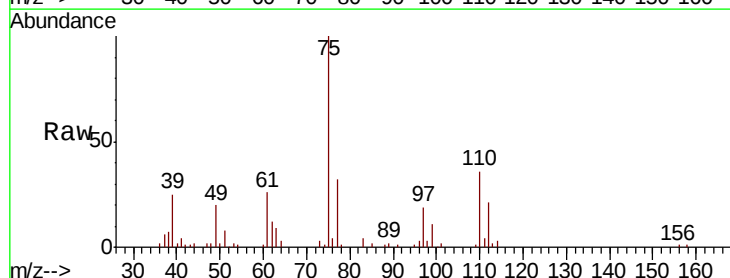
Acq: 12 Dec 2018 12:21

Tgt Ion: 75 Resp: 38608

Ion Ratio Lower Upper

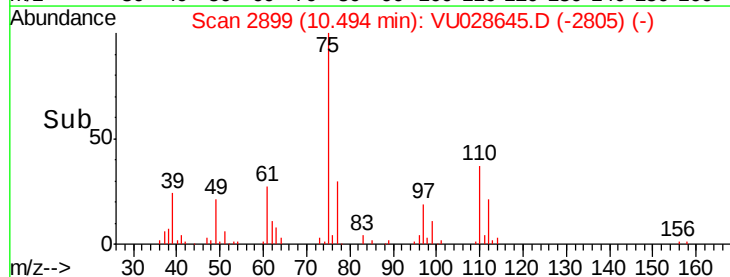
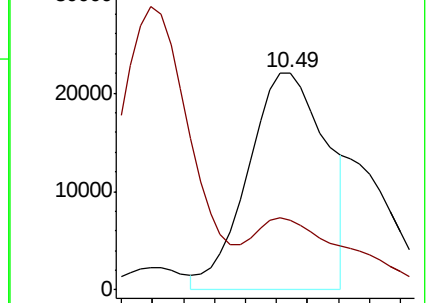
75 100

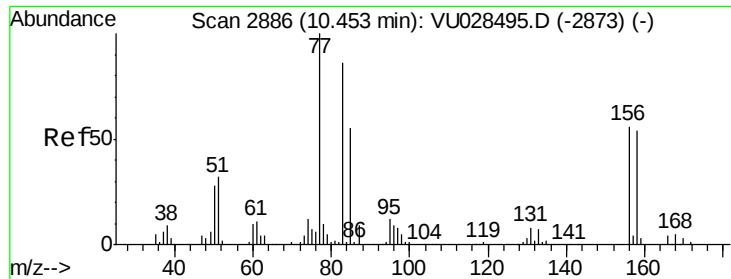
77 41.5 20.8 62.4



Abundance Ion 74.90 (74.60 to 75.60): VU028495.D (-2889) (-)

Ion 77.00 (76.70 to 77.70): VU028495.D (-2889) (-)





#77

Bromobenzene

Concen: 19.180 ug/l

RT: 10.45 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

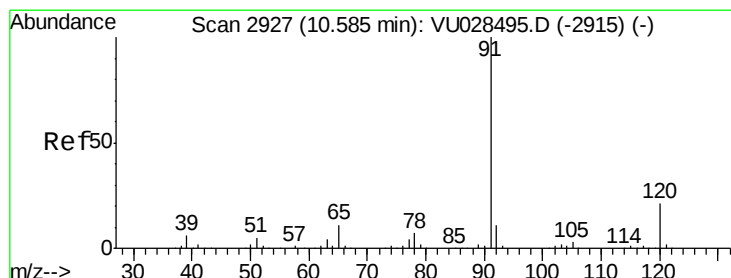
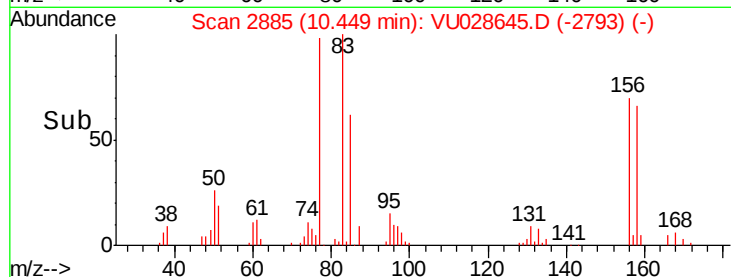
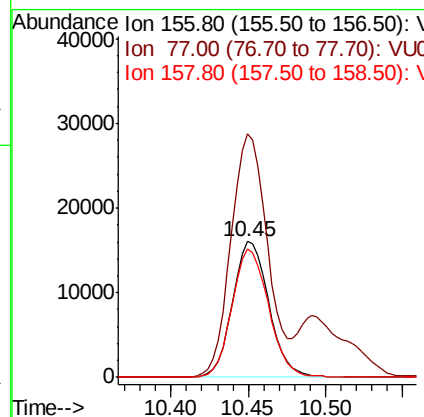
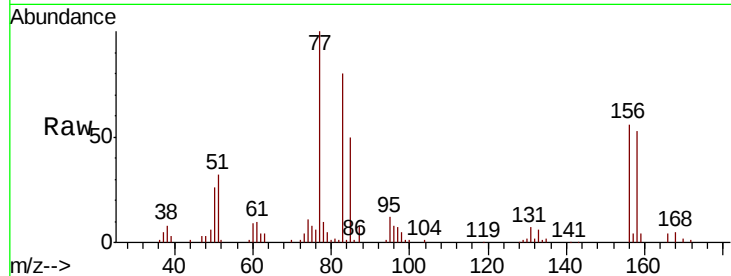
ClientSampleId :

VU1213WBSD02

Tot Ion:	156	Resp:	26136
Ion	Ratio	Lower	Upper
156	100		
77	182.2	92.4	277.2
158	94.8	48.4	145.3

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#78

n-propylbenzene

Concen: 18.240 ug/l

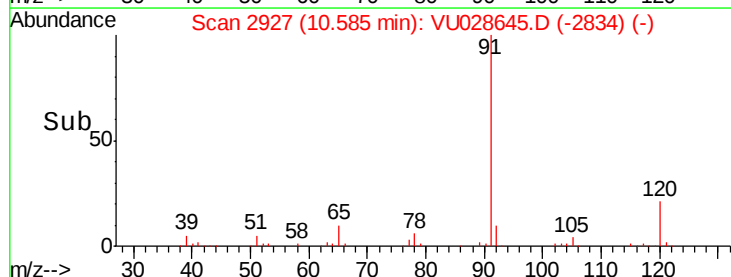
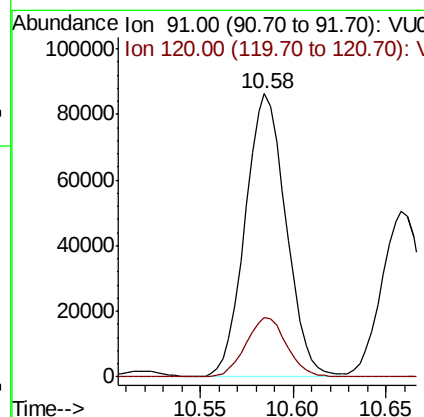
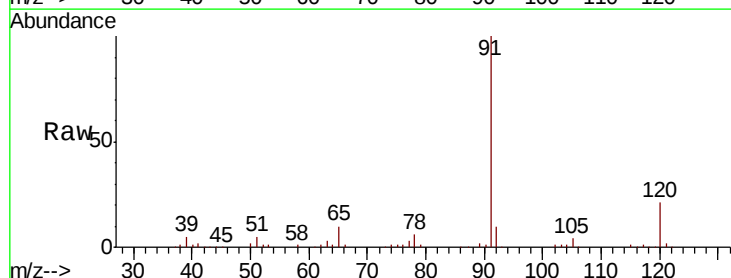
RT: 10.58 min Scan# 2927

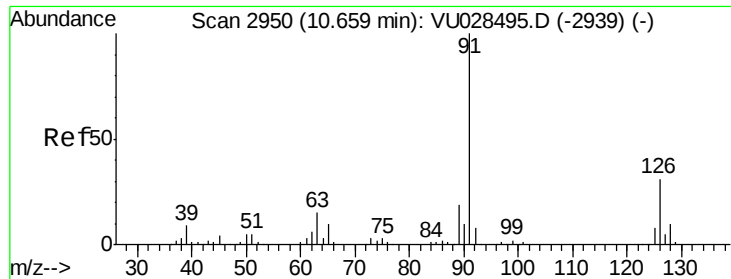
Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Tgt Ion:	91	Resp:	132051
Ion	Ratio	Lower	Upper
91	100		
120	20.9	10.6	31.8





#79

2-Chlorotoluene

Concen: 19.068 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBSD02

Tot Ion: 91 Resp: 79518

Ion Ratio Lower Upper

91 100

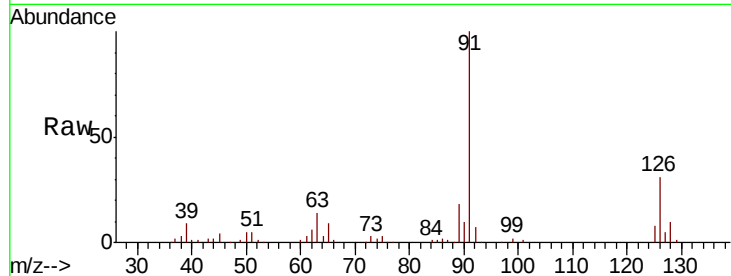
126 31.4 15.6 46.8

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Abundance Ion 91.00 (90.70 to 91.70): VU028645.D (-2939) (-)

Ion 125.90 (125.60 to 126.60): VU028645.D (-2939) (-)

100000

80000

60000

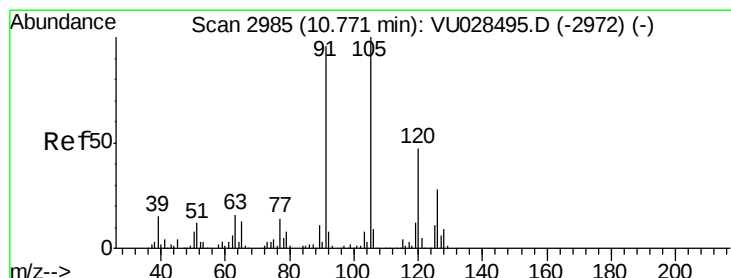
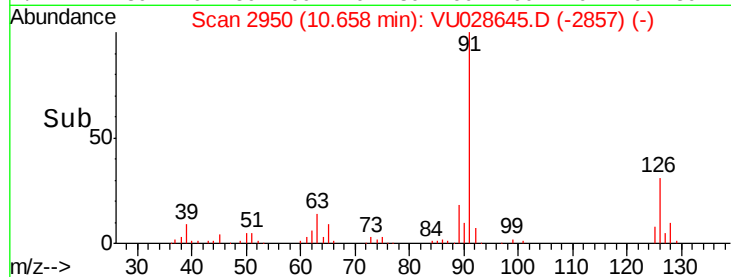
40000

20000

0

10.60 10.65 10.70 10.75

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 18.662 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028645.D

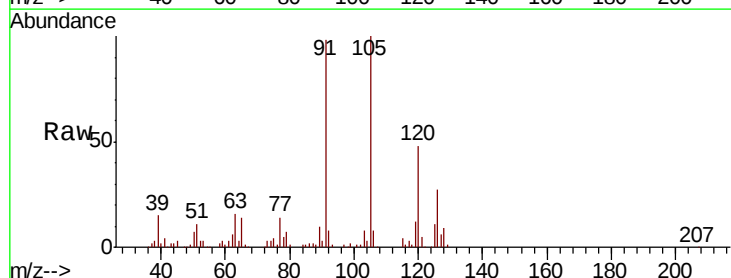
Acq: 12 Dec 2018 12:21

Tgt Ion:105 Resp: 90007

Ion Ratio Lower Upper

105 100

120 47.5 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): VU028645.D (-2972) (-)

Ion 120.00 (119.70 to 120.70): VU028645.D (-2972) (-)

60000

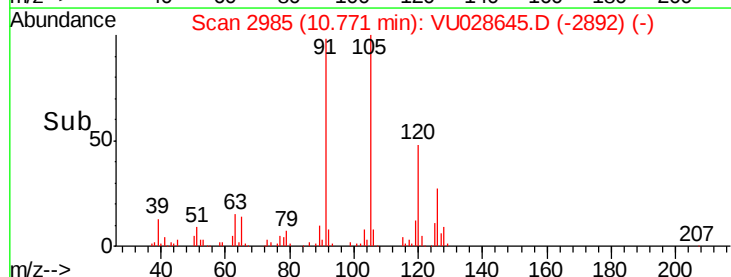
40000

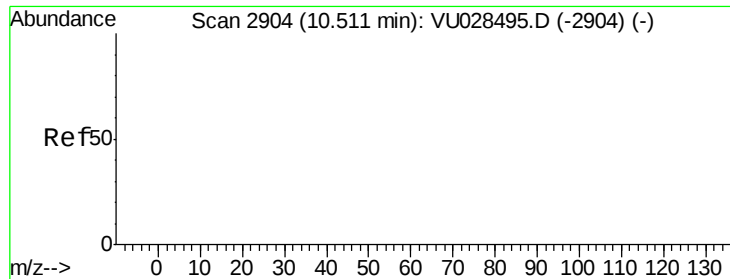
20000

0

10.70 10.75 10.80 10.85

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 21.434 ug/l m

RT: 10.51 min Scan# 2903

Delta R.T. -0.00 min

Lab File: VU028645.D

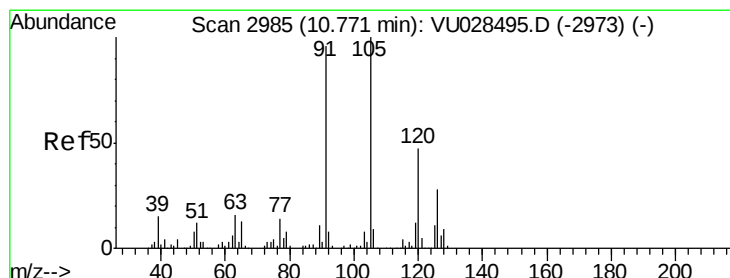
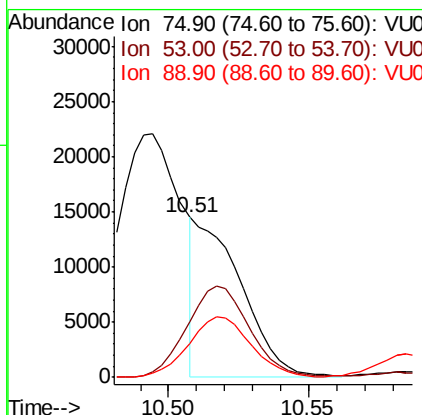
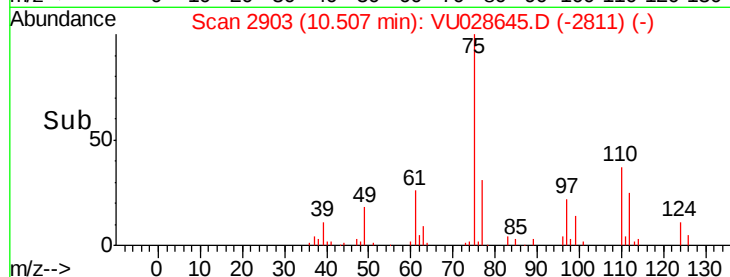
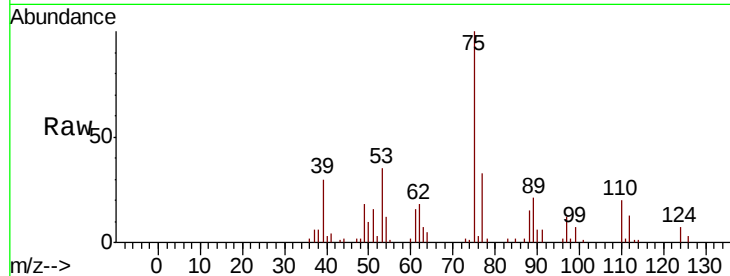
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

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

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#82

4-Chlorotoluene

Concen: 18.179 ug/l

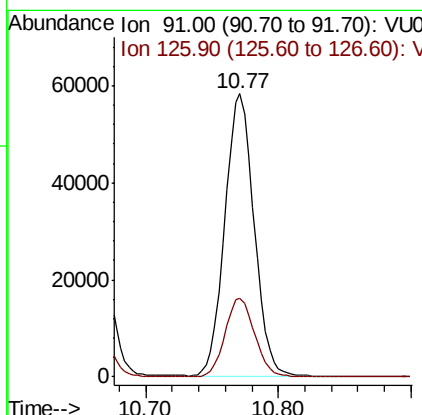
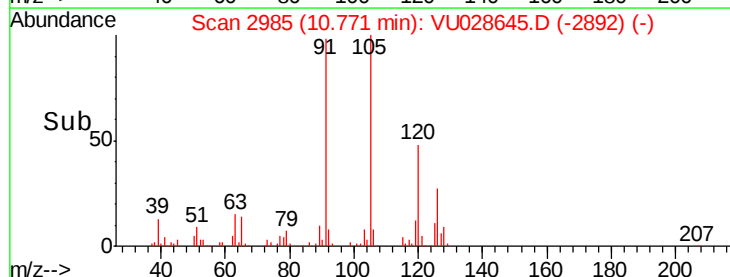
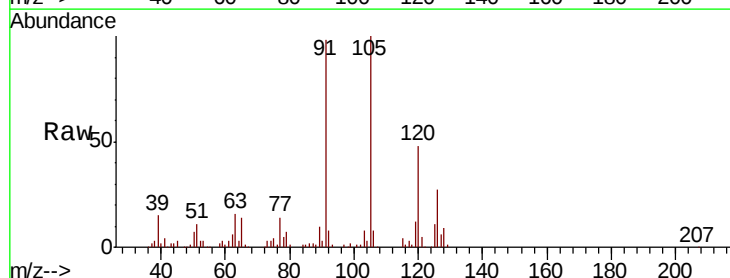
RT: 10.77 min Scan# 2985

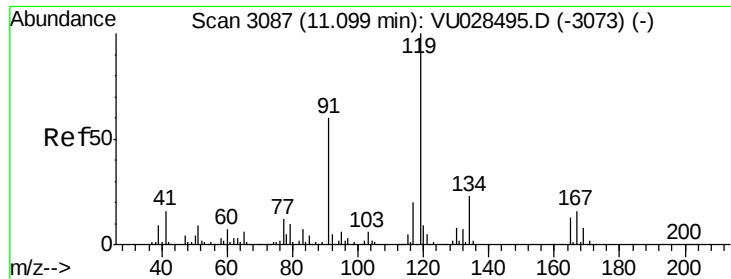
Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
91	100		
126	28.0	14.1	42.3





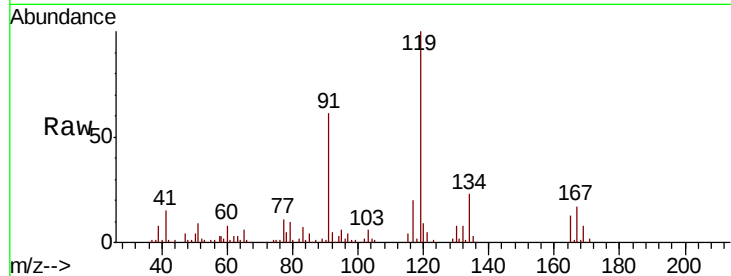
#83
tert-Butylbenzene
Concen: 19.019 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

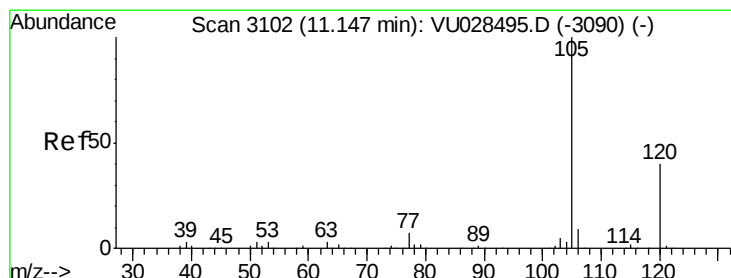
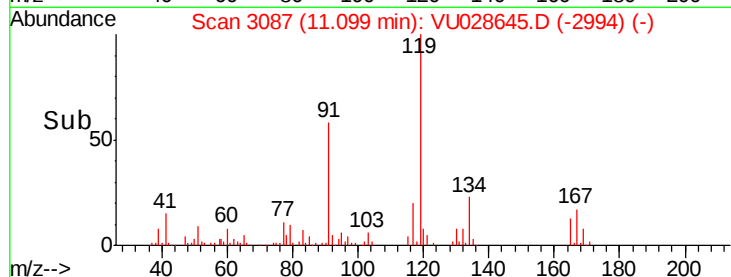
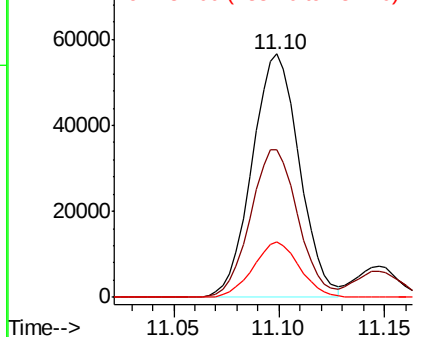
Tot Ion	Ratio	Lower	Upper
119	100		
91	61.0	30.3	91.0
134	22.2	11.2	33.5

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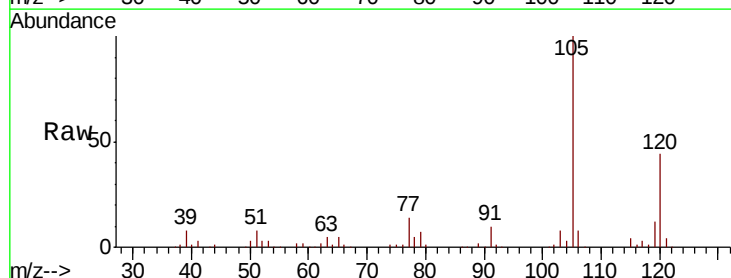


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

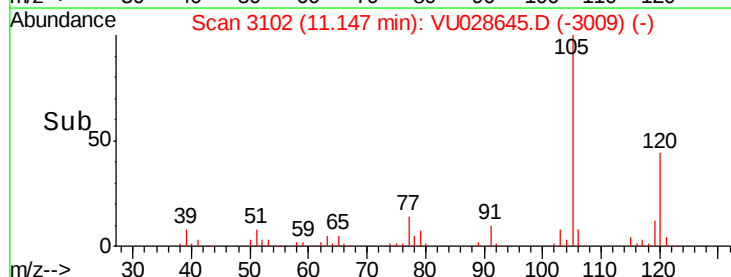
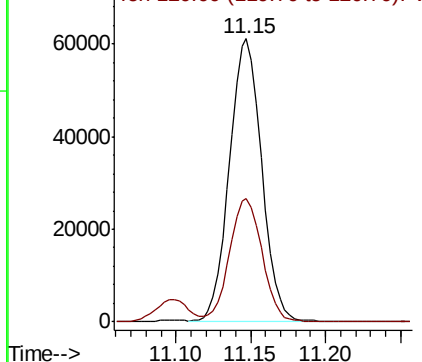


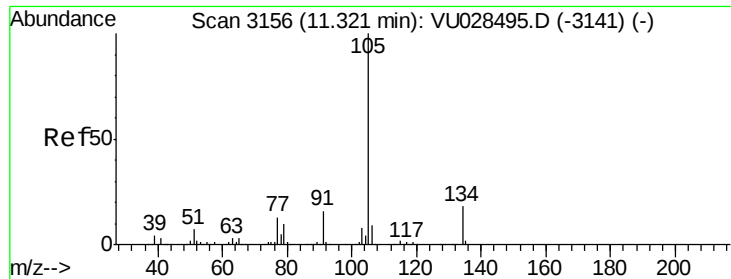
#84
1,2,4-Trimethylbenzene
Concen: 18.513 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.8	65.4



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





#85

sec-Butylbenzene

Concen: 18.175 ug/l

RT: 11.32 min Scan# 3156

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

Instrument :

MSVOA_U

ClientSampleId :

VU1213WBSD02

Tot Ion:105 Resp: 108538

Ion Ratio Lower Upper

105 100

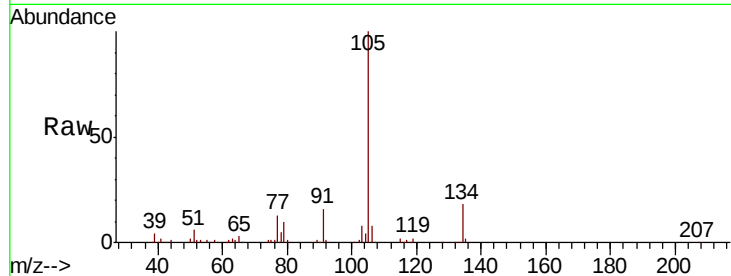
134 18.8 9.2 27.6

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.32

80000

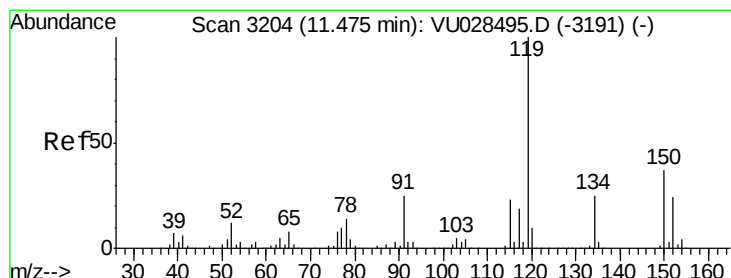
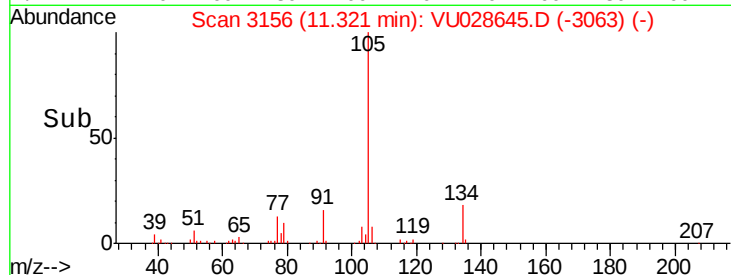
60000

40000

20000

0

Time-->



#86

p-Isopropyltoluene

Concen: 17.902 ug/l

RT: 11.48 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU028645.D

Acq: 12 Dec 2018 12:21

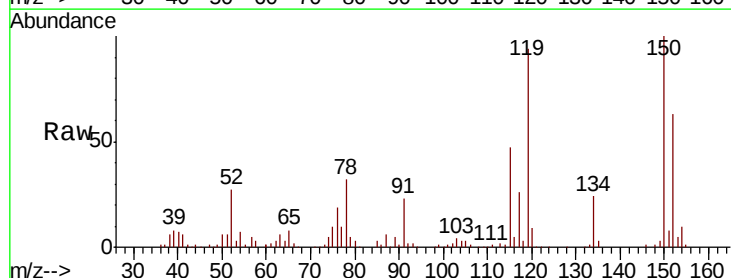
Tgt Ion:119 Resp: 90816

Ion Ratio Lower Upper

119 100

134 25.5 12.7 38.1

91 24.5 12.6 37.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU

11.48

80000

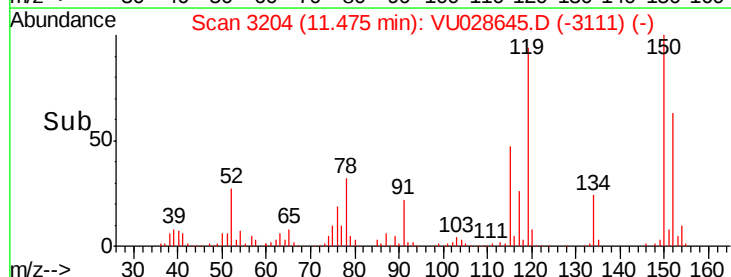
60000

40000

20000

0

Time-->





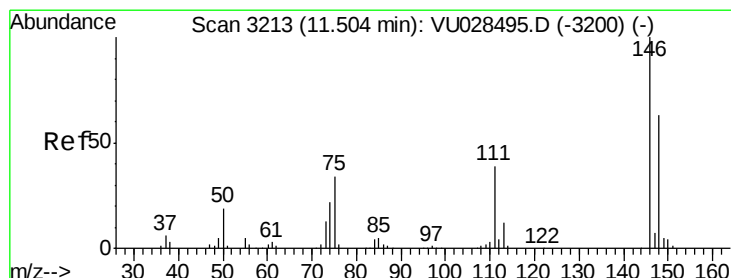
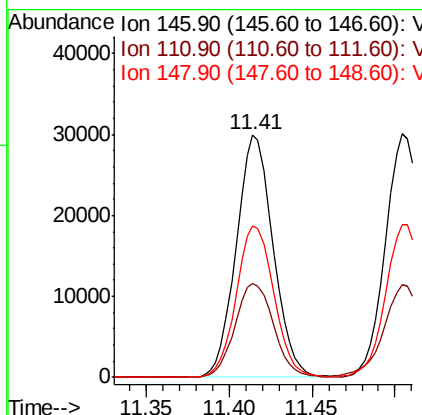
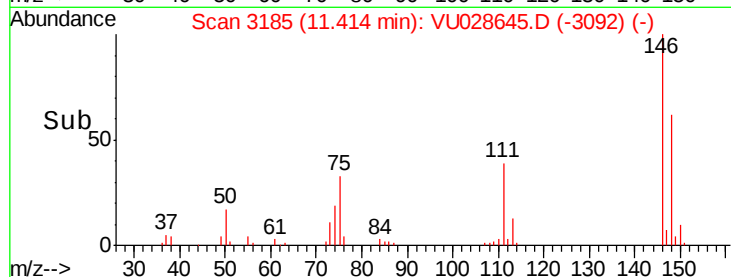
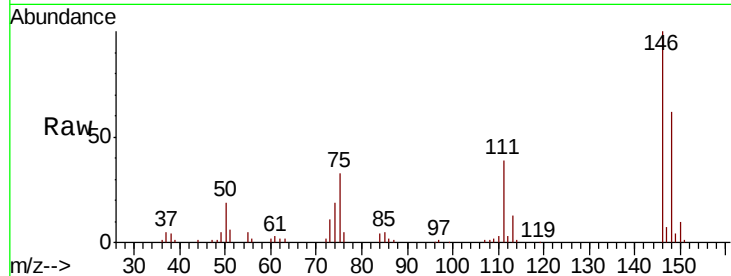
#87
 1,3-Dichlorobenzene
 Concen: 18.064 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	20.7	62.1
148	63.7	31.9	95.7

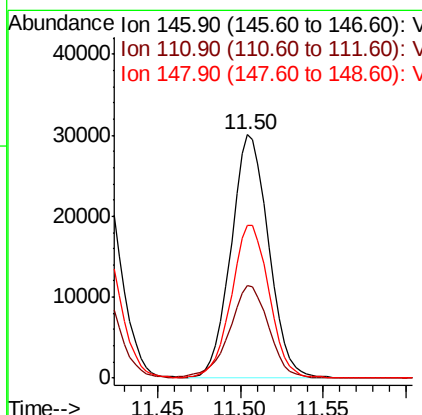
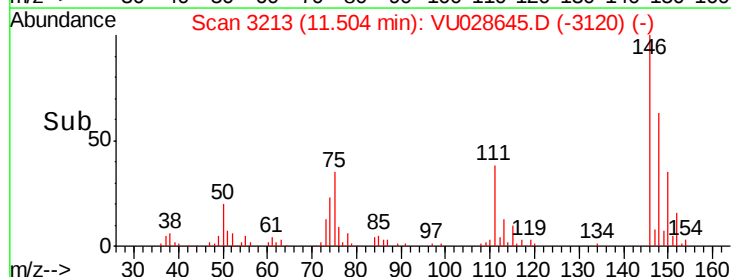
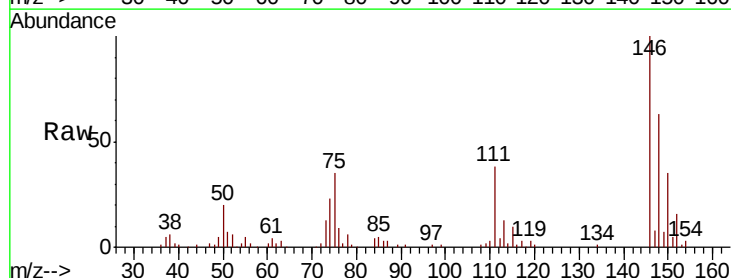
Manual Integrations
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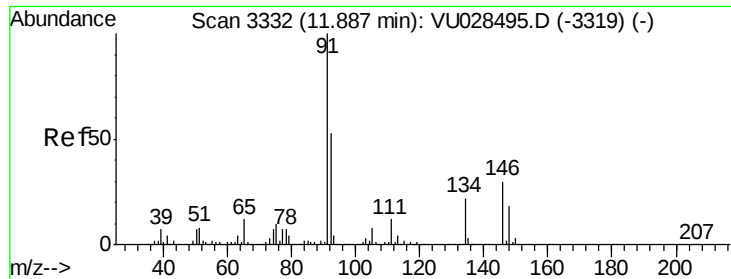
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#88
 1,4-Dichlorobenzene
 Concen: 17.832 ug/l
 RT: 11.50 min Scan# 3213
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.2	60.5
148	63.4	31.6	95.0





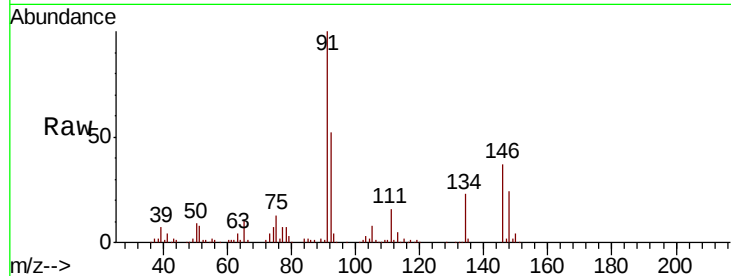
#89
n-Butylbenzene
Concen: 16.436 ug/l
RT: 11.89 min Scan# 3332
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		84384		
92	52.9	26.3	78.9		
134	22.8	11.3	33.8		

Manual Integrations
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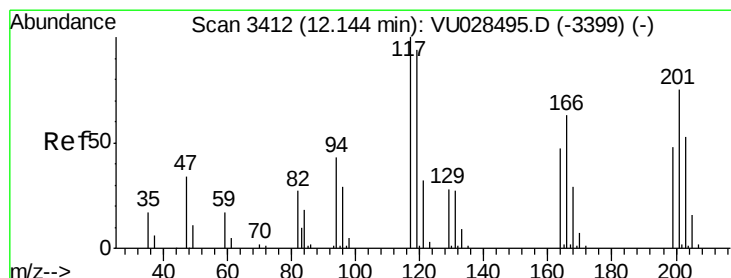
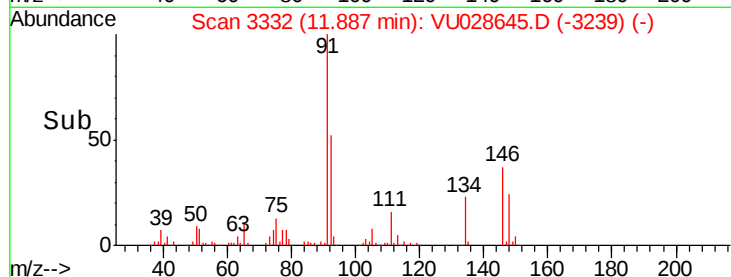
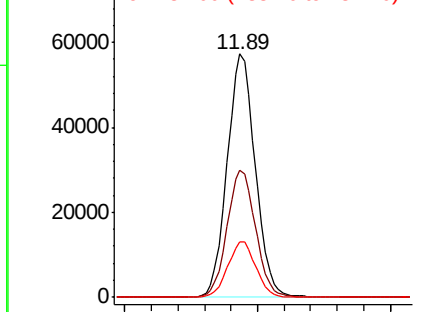


Abundance

Ion 91.00 (90.70 to 91.70): VU028645.D (-3319) (-)

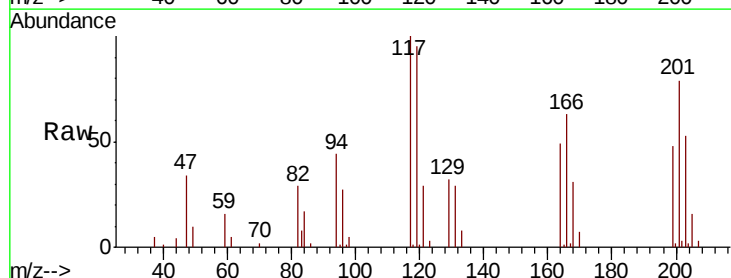
Ion 92.00 (91.70 to 92.70): VU028645.D (-3319) (-)

Ion 134.00 (133.70 to 134.70): VU028645.D (-3319) (-)



#90
Hexachloroethane
Concen: 19.229 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

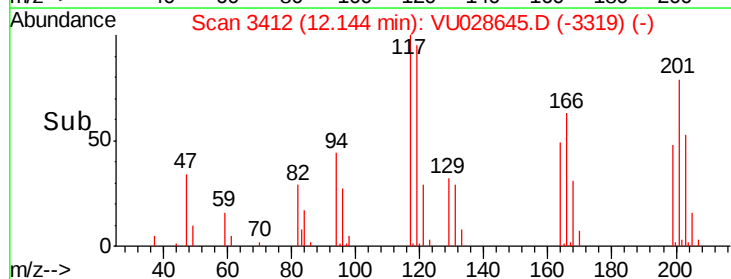
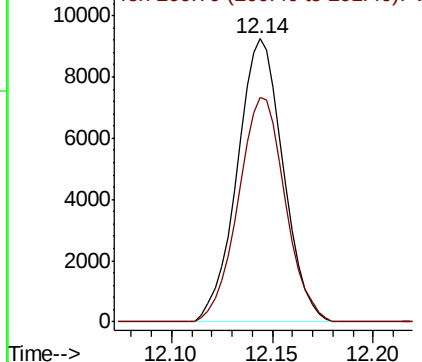
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		14744		
201	81.0	38.1	114.5		

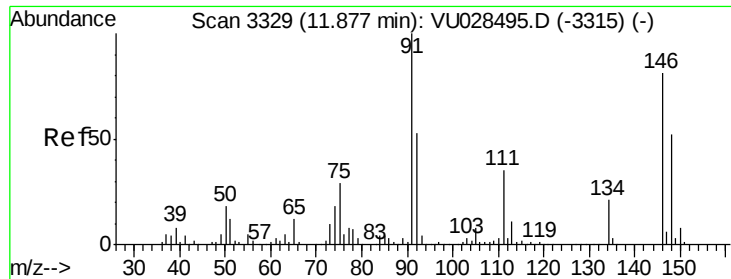


Abundance

Ion 116.80 (116.50 to 117.50): VU028645.D (-3399) (-)

Ion 200.70 (200.40 to 201.40): VU028645.D (-3399) (-)





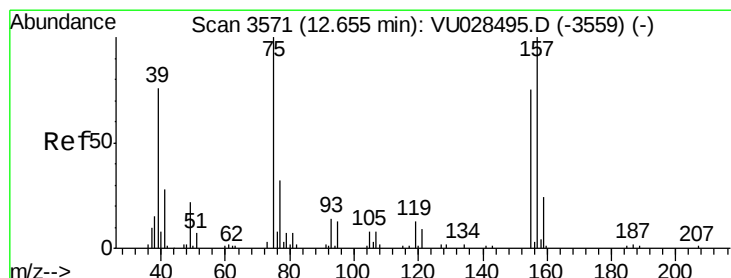
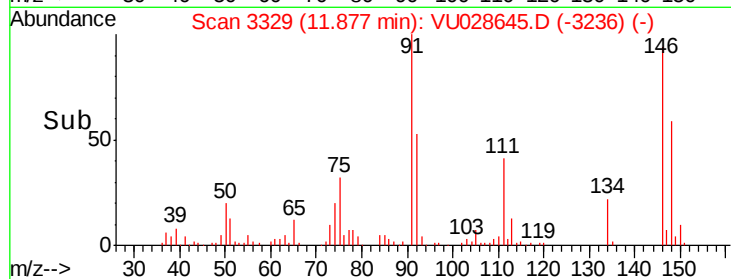
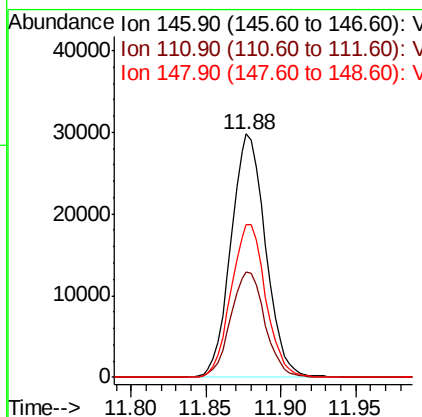
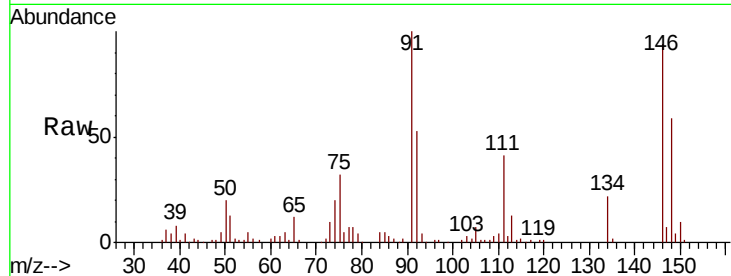
#91
 1,2-Dichlorobenzene
 Concen: 18.669 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.1	63.4
148	62.7	31.4	94.2

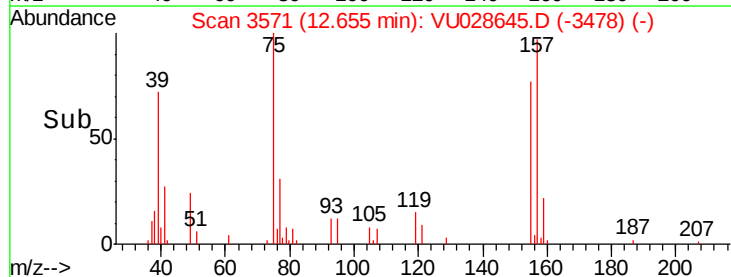
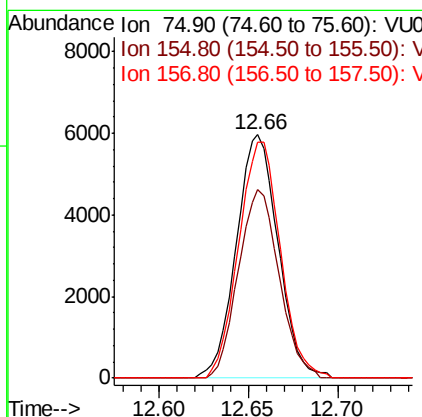
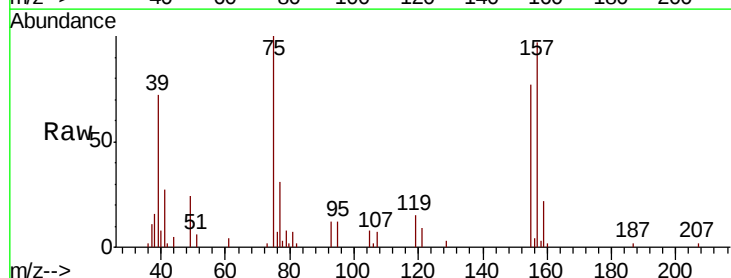
Manual Integrations
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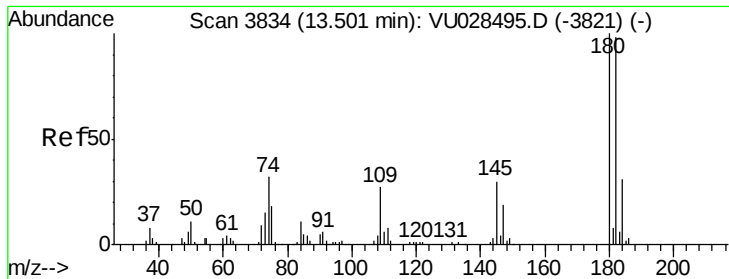
MMDadoda
 12/13/2018 9:29:46 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.142 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.7	38.1	114.5
157	96.9	48.7	146.1





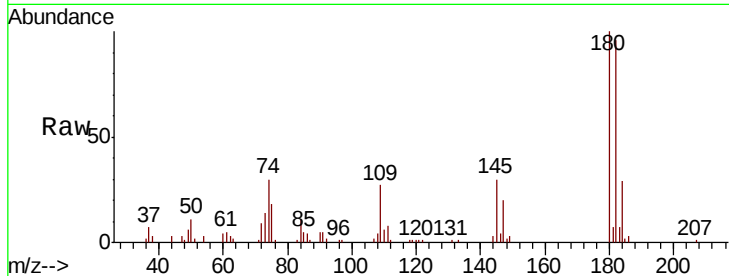
#93
 1,2,4-Trichlorobenzene
 Concen: 17.362 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1213WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	29715		
182	94.8	47.9	143.8	
145	29.2	15.0	45.1	

Manual Integrations
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 12/13/2018 9:29:46 AM

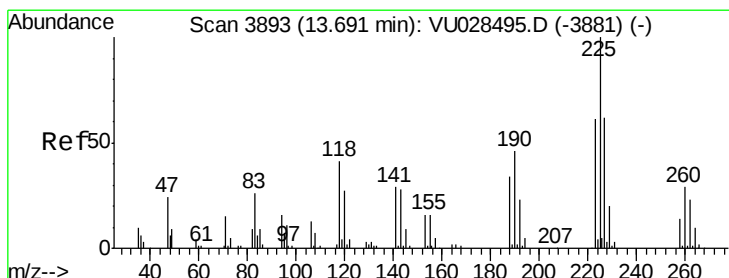
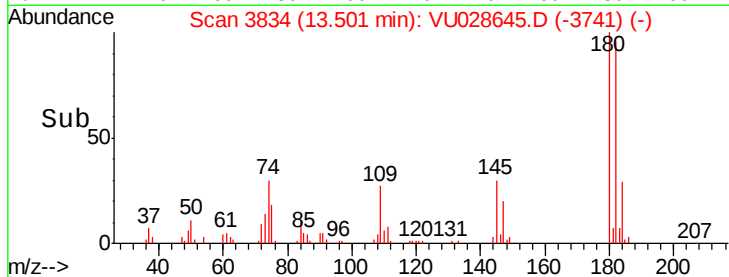
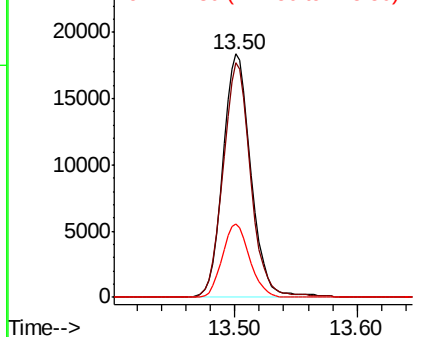


Abundance

Ion 179.80 (179.50 to 180.50): V

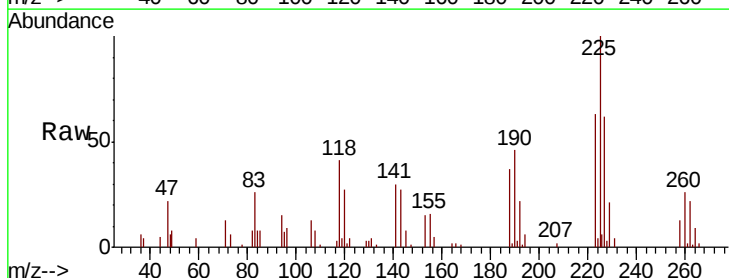
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 16.900 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU028645.D
 Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	14248		
223	64.2	30.4	91.2	
227	63.4	30.7	92.1	

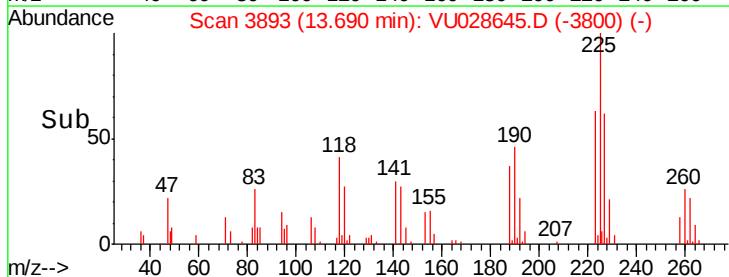
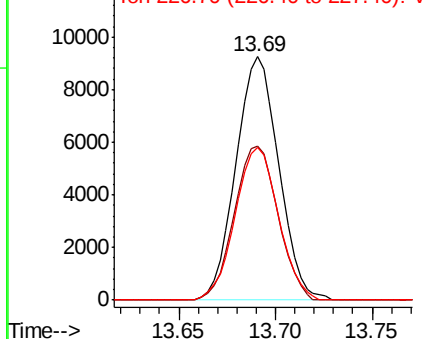


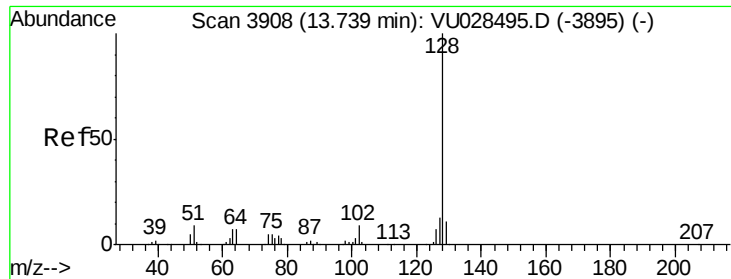
Abundance

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





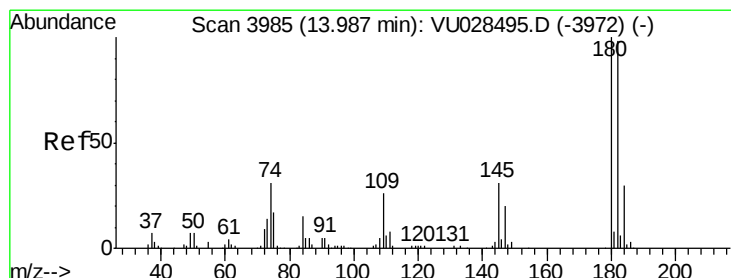
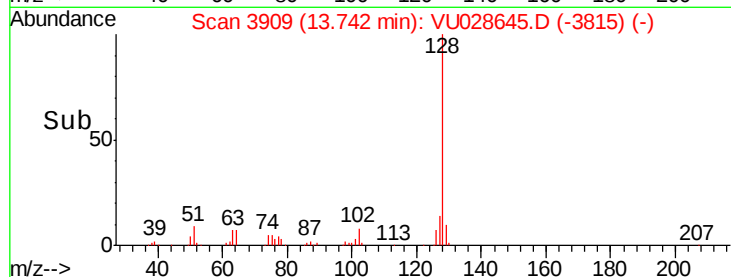
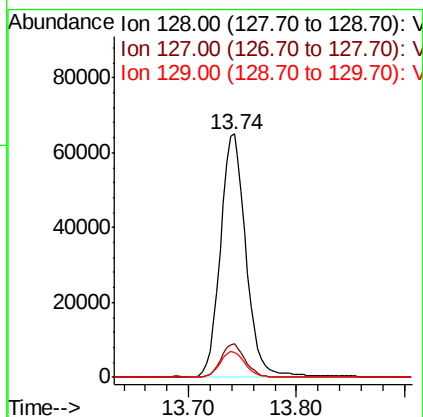
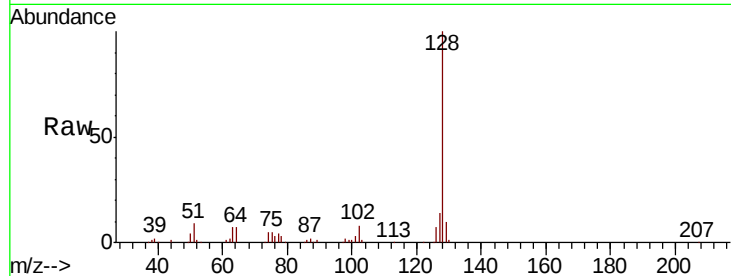
#95
Naphthalene
Concen: 17.369 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Instrument :
MSVOA_U
ClientSampleId :
VU1213WBSD02

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	10.4	8.6	13.0

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 17.844 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028645.D
Acq: 12 Dec 2018 12:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.2	144.6
145	31.4	15.8	47.3

