

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091218\
 Data File : VU026677.D
 Acq On : 11 Sep 2018 10:57
 Operator : MD/SY
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 9/13/2018 4:48:53 PM

Quant Time: Sep 12 05:17:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U091218W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 04:37:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	98523	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	150033	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	143590	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	76060	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	8583	5.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.48%	
35) Dibromofluoromethane	4.88	113	6808	5.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.12%	
50) Toluene-d8	7.57	98	24437	5.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.80%	
62) 4-Bromofluorobenzene	10.31	95	7750	4.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	5919	5.56	ug/l	97
3) Chloromethane	1.33	50	8214	5.52	ug/l	99
4) Vinyl Chloride	1.40	62	8157	5.29	ug/l	98
5) Bromomethane	1.61	94	5428	5.62	ug/l	96
6) Chloroethane	1.69	64	5346	5.45	ug/l	95
7) Trichlorofluoromethane	1.88	101	10953	5.44	ug/l	99
8) Diethyl Ether	2.10	74	4979	5.64	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.29	101	6604	5.52	ug/l	96
10) Methyl Iodide	2.41	142	2139	2.37	ug/l #	96
11) Tert butyl alcohol	2.83	59	11277	30.96	ug/l	96
12) 1,1-Dichloroethene	2.28	96	6123	5.41	ug/l	96
13) Acrolein	2.19	56	7559	30.79	ug/l	96
14) Allyl chloride	2.59	41	10455	5.13	ug/l	96
15) Acrylonitrile	2.94	53	20253	25.92	ug/l	99
16) Acetone	2.32	43	24529	28.99	ug/l	97
17) Carbon Disulfide	2.48	76	19088	5.30	ug/l	99
18) Methyl Acetate	2.61	43	9786	5.36	ug/l	98
19) Methyl tert-butyl Ether	3.00	73	19777	5.08	ug/l	97
20) Methylene Chloride	2.70	84	7665	5.58	ug/l	95
21) trans-1,2-Dichloroethene	2.98	96	6480	5.44	ug/l	94
22) Diisopropyl ether	3.57	45	21982	5.17	ug/l	91
23) Vinyl Acetate	3.53	43	90040	24.93	ug/l	100
24) 1,1-Dichloroethane	3.45	63	13397	5.59	ug/l	98
25) 2-Butanone	4.27	43	30320	26.60	ug/l	100
26) 2,2-Dichloropropane	4.22	77	10321	5.24	ug/l	100
27) cis-1,2-Dichloroethene	4.23	96	7383	5.38	ug/l	98
28) Bromochloromethane	4.55	49	6392	5.57	ug/l #	98
29) Tetrahydrofuran	4.64	42	17498	25.46	ug/l	98
30) Chloroform	4.67	83	12850	5.45	ug/l	92
31) Cyclohexane	5.00	56	12160	4.90	ug/l #	81
32) 1,1,1-Trichloroethane	4.92	97	10340	5.30	ug/l	96
36) 1,1-Dichloropropene	5.14	75	8454	5.02	ug/l	99
37) Ethyl Acetate	4.39	43	11109	5.48	ug/l #	94
38) Carbon Tetrachloride	5.14	117	9377	5.27	ug/l	98

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 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

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 MSVOA_U
 ClientSampleId :
 VSTDIC005

Manual Integrations
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MMDadoda
 9/13/2018 4:48:53 PM

Quant Time: Sep 12 05:17:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U091218W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 04:37:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.42	83	9932	4.97	ug/l	98
40) Benzene	5.39	78	27606	5.28	ug/l	98
41) Methacrylonitrile	4.54	41	5548	5.28	ug/l	92
42) 1,2-Dichloroethane	5.41	62	9922	5.32	ug/l	97
43) Isopropyl Acetate	5.55	43	15369	4.98	ug/l	98
44) Trichloroethene	6.19	130	6834	5.28	ug/l	97
45) 1,2-Dichloropropane	6.44	63	7619	5.36	ug/l	93
46) Dibromomethane	6.57	93	4966	5.41	ug/l	98
47) Bromodichloromethane	6.76	83	9439	5.22	ug/l	94
48) Methyl methacrylate	6.63	41	7673	5.04	ug/l	95
49) 1,4-Dioxane	6.62	88	3577	101.40	ug/l	97
51) 4-Methyl-2-Pentanone	7.46	43	51307	24.87	ug/l	96
52) Toluene	7.64	92	16285	5.23	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	9659	4.82	ug/l	97
54) cis-1,3-Dichloropropene	7.27	75	10808	5.02	ug/l	99
55) 1,1,2-Trichloroethane	8.07	97	6893	5.16	ug/l	99
56) Ethyl methacrylate	8.02	69	9090	4.66	ug/l	98
57) 1,3-Dichloropropane	8.25	76	11713	5.15	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.13	63	21983	22.88	ug/l	100
59) 2-Hexanone	8.37	43	39726	24.47	ug/l	95
60) Dibromochloromethane	8.48	129	7494	5.18	ug/l	94
61) 1,2-Dibromoethane	8.59	107	7485	5.17	ug/l	98
64) Tetrachloroethene	8.23	164	6136	5.37	ug/l	94
65) Chlorobenzene	9.12	112	18320	5.14	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.21	131	6742	5.14	ug/l	97
67) Ethyl Benzene	9.25	91	28191	4.80	ug/l	99
68) m/p-Xylenes	9.38	106	21299	9.53	ug/l	100
69) o-Xylene	9.78	106	10773	4.95	ug/l	97
70) Styrene	9.79	104	16355	4.59	ug/l	97
71) Bromoform	9.96	173	5455	4.78	ug/l #	99
73) Isopropylbenzene	10.17	105	27066	5.22	ug/l	100
74) N-amyl acetate	10.02	43	12106	4.95	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.46	83	11523	5.46	ug/l	97
76) 1,2,3-Trichloropropane	10.49	75	10008m	5.17	ug/l	
77) Bromobenzene	10.46	156	7158	5.08	ug/l	93
78) n-propylbenzene	10.59	91	30023	4.98	ug/l	99
79) 2-Chlorotoluene	10.66	91	20461	5.48	ug/l	98
80) 1,3,5-Trimethylbenzene	10.77	105	21750	4.99	ug/l	97
81) trans-1,4-Dichloro-2-buten	10.51	75	2848m	3.29	ug/l	
82) 4-Chlorotoluene	10.77	91	21509	5.12	ug/l	99
83) tert-Butylbenzene	11.10	119	22902	5.18	ug/l	97
84) 1,2,4-Trimethylbenzene	11.15	105	21527	4.90	ug/l	98
85) sec-Butylbenzene	11.32	105	25503	4.86	ug/l	99
86) p-Isopropyltoluene	11.48	119	21818	4.77	ug/l	98
87) 1,3-Dichlorobenzene	11.42	146	13728	5.22	ug/l	97
88) 1,4-Dichlorobenzene	11.51	146	14301	5.24	ug/l	95
89) n-Butylbenzene	11.89	91	17832	4.45	ug/l	98
90) Hexachloroethane	12.15	117	5020	5.42	ug/l	96
91) 1,2-Dichlorobenzene	11.88	146	13589	5.14	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	12.66	75	2247	5.31	ug/l	99

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Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTDICC005

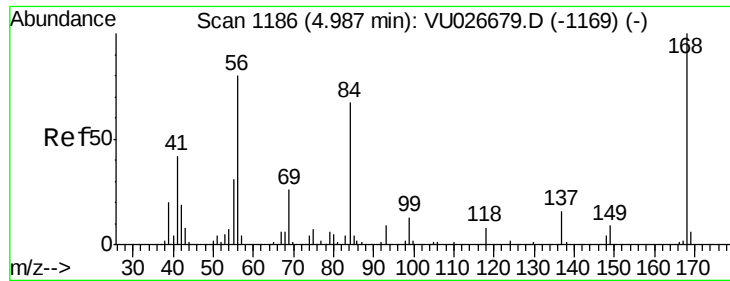
Manual Integrations
APPROVED

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Quant Time: Sep 12 05:17:58 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U091218W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 04:37:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	8102	4.62	ug/l	96
94) Hexachlorobutadiene	13.69	225	4681	5.18	ug/l	95
95) Naphthalene	13.75	128	24280	4.57	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	9025	4.92	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 98523

Ion Ratio Lower Upper

168 100

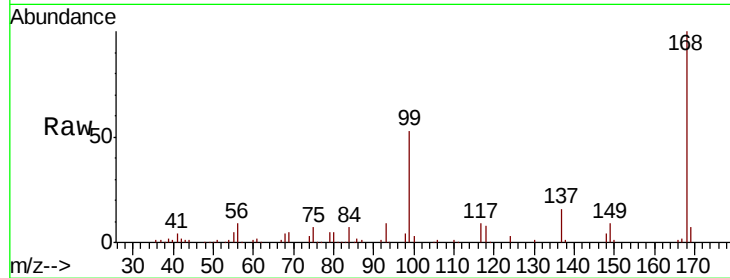
99 52.9 42.0 63.0

Manual Integrations

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9/13/2018 4:48:53 PM



Abundance Ion 167.90 (167.60 to 168.60): VU026677.D (-1093) (-)

Ion 98.90 (98.60 to 99.60): VU026677.D (-1093) (-)

4.98

50000

40000

30000

20000

10000

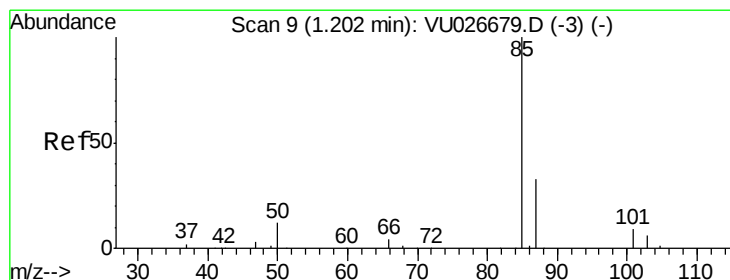
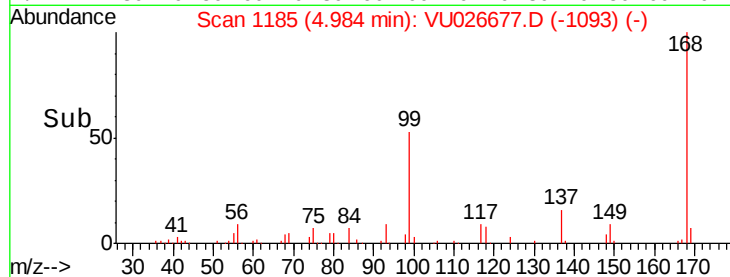
0

4.90

5.00

5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 5.56 ug/l

RT: 1.20 min Scan# 9

Delta R.T. 0.00 min

Lab File: VU026677.D

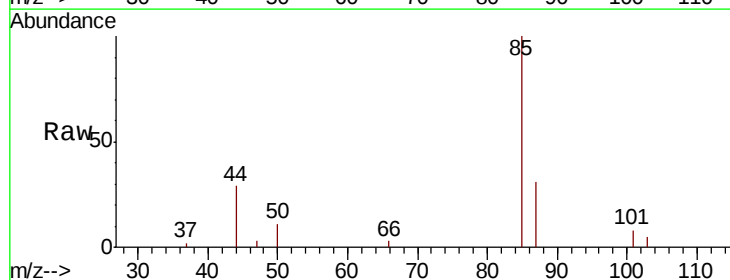
Acq: 11 Sep 2018 10:57

Tgt Ion: 85 Resp: 5919

Ion Ratio Lower Upper

85 100

87 31.2 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VU026677.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VU026677.D (-1) (-)

1.20

6000

4000

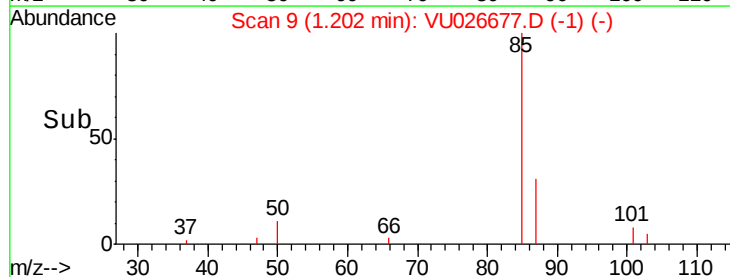
2000

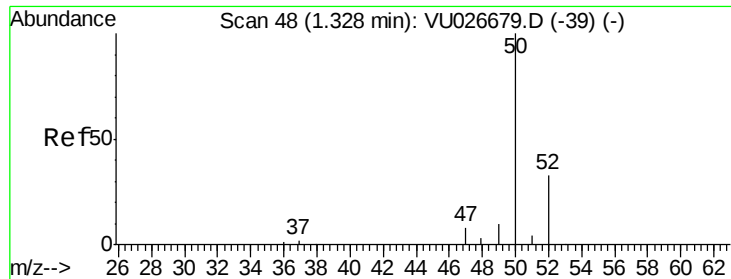
0

1.20

1.25

Time-->





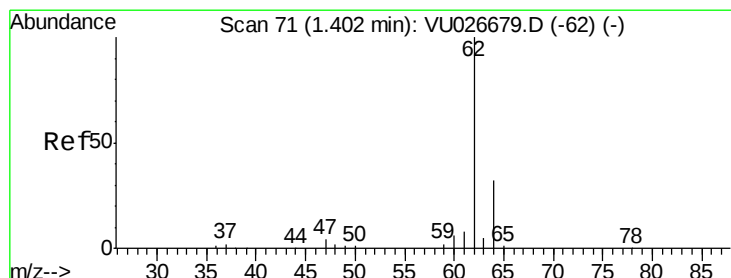
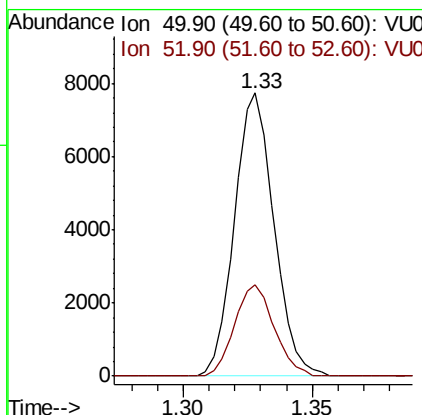
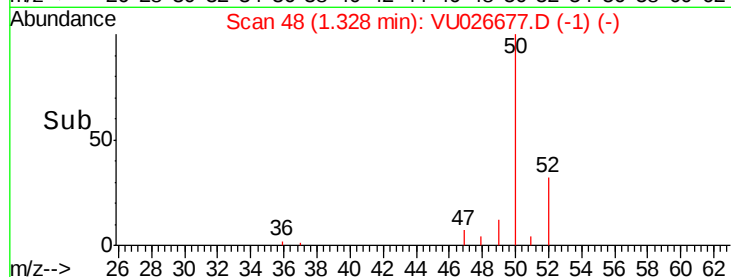
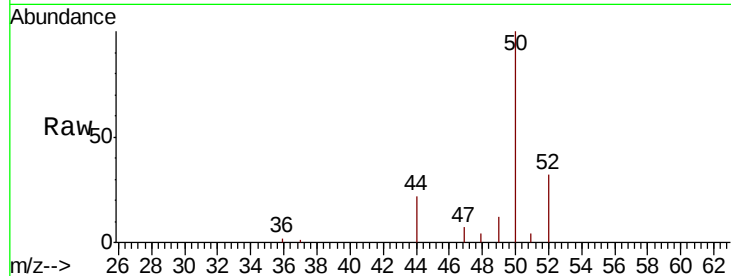
#3
 Chloromethane
 Concen: 5.52 ug/l
 RT: 1.33 min Scan# 48
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.3	39.5

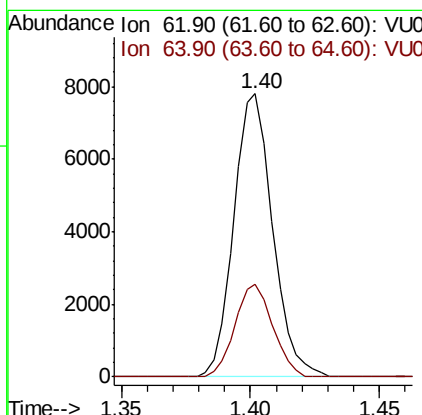
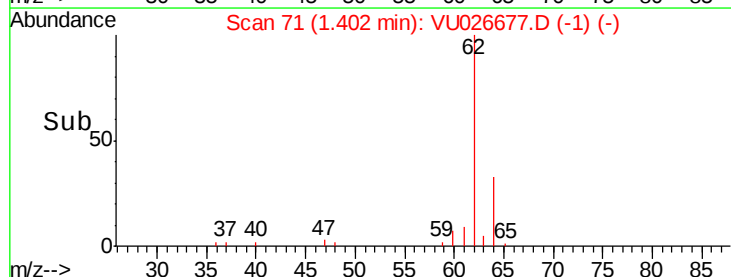
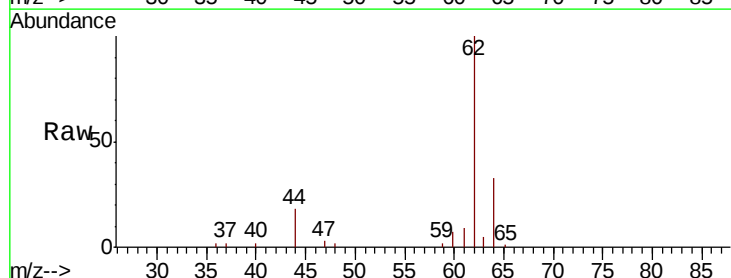
Manual Integrations
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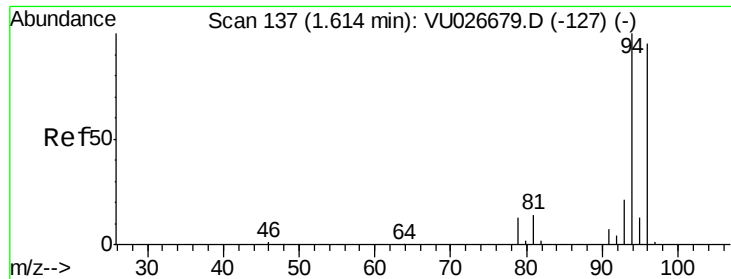
MMDadoda
 9/13/2018 4:48:53 PM



#4
 Vinyl Chloride
 Concen: 5.29 ug/l
 RT: 1.40 min Scan# 71
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.9	25.6	38.4





#5

Bromomethane

Concen: 5.62 ug/l

RT: 1.61 min Scan# 136

Delta R.T. -0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 5428

Ion Ratio Lower Upper

94 100

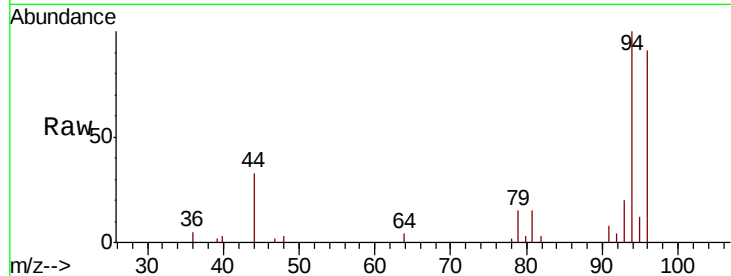
96 91.3 75.8 113.6

Manual Integrations

APPROVED

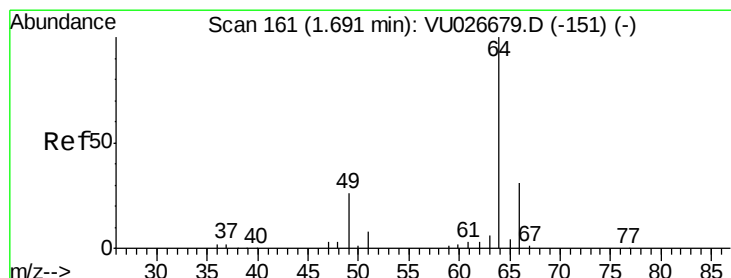
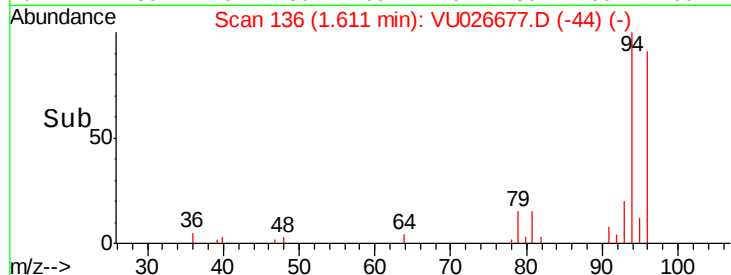
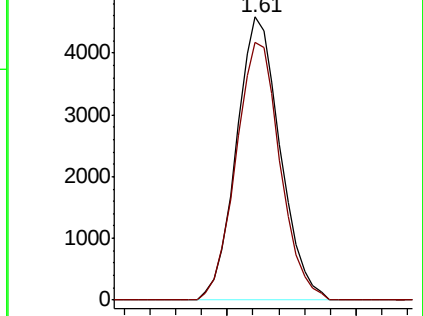
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Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 5.45 ug/l

RT: 1.69 min Scan# 161

Delta R.T. 0.00 min

Lab File: VU026677.D

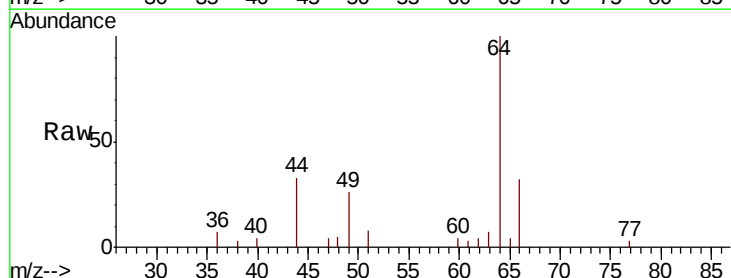
Acq: 11 Sep 2018 10:57

Tgt Ion: 64 Resp: 5346

Ion Ratio Lower Upper

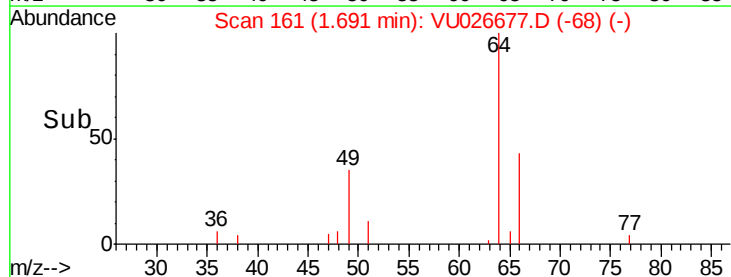
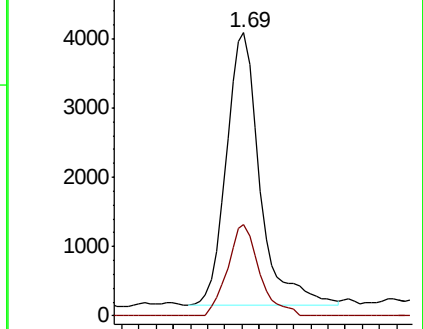
64 100

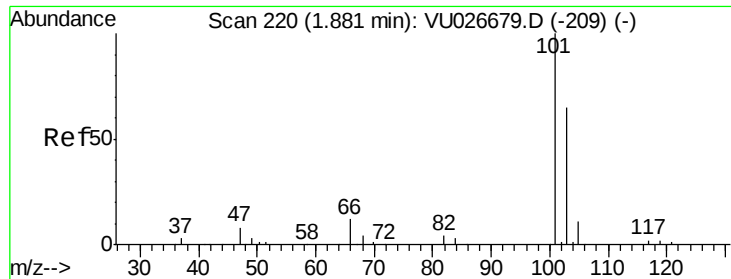
66 33.8 24.7 37.1



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

Trichlorofluoromethane

Concen: 5.44 ug/l

RT: 1.88 min Scan# 220

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 10953

Ion Ratio Lower Upper

101 100

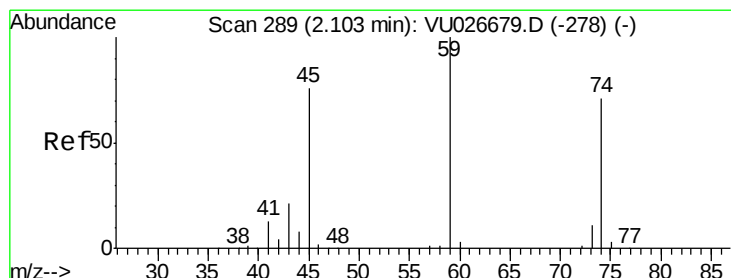
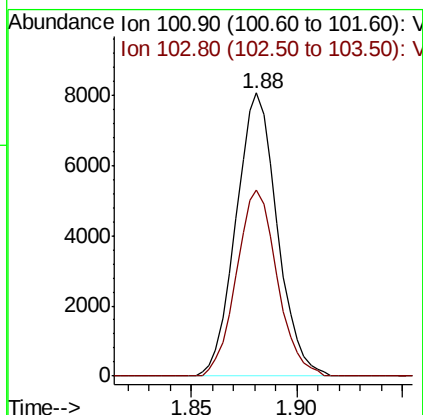
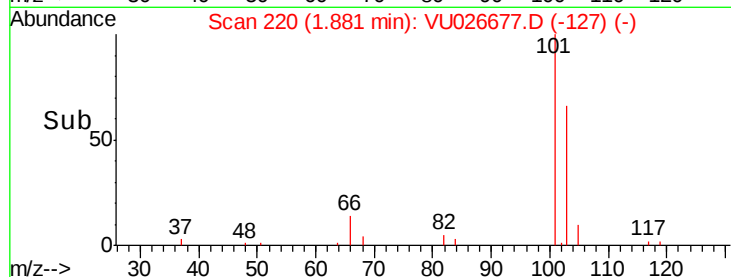
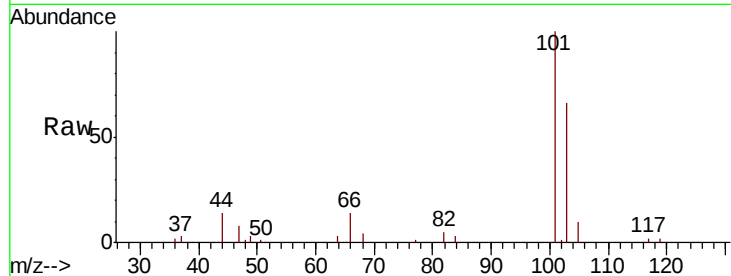
103 65.6 51.7 77.5

Manual Integrations

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#8

Diethyl Ether

Concen: 5.64 ug/l

RT: 2.10 min Scan# 289

Delta R.T. 0.00 min

Lab File: VU026677.D

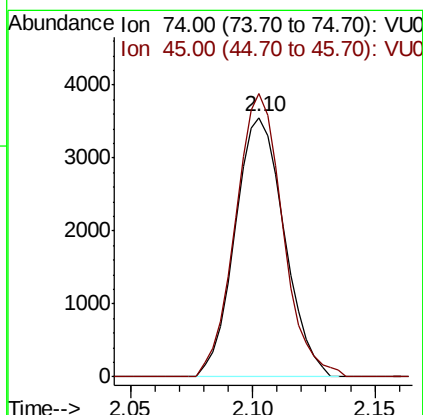
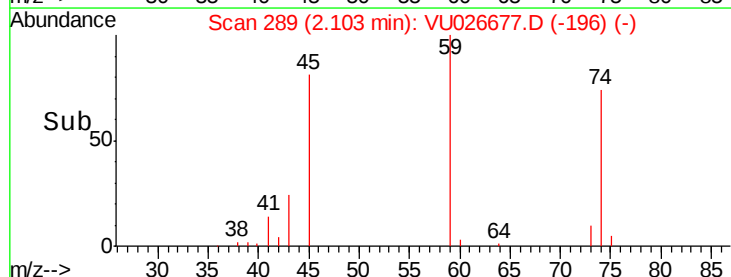
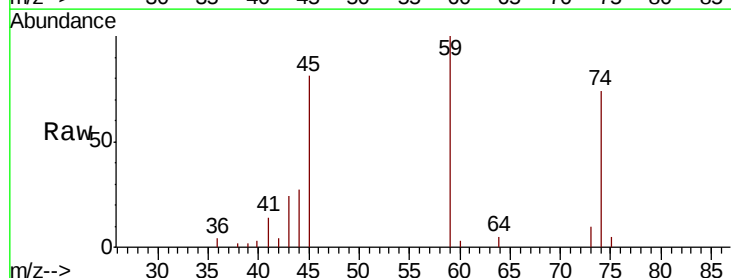
Acq: 11 Sep 2018 10:57

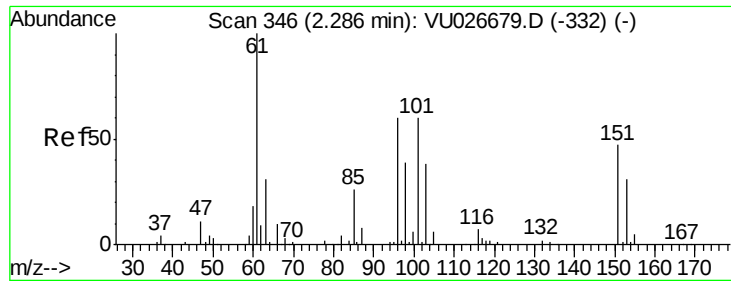
Tgt Ion: 74 Resp: 4979

Ion Ratio Lower Upper

74 100

45 104.8 53.6 160.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.52 ug/l

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

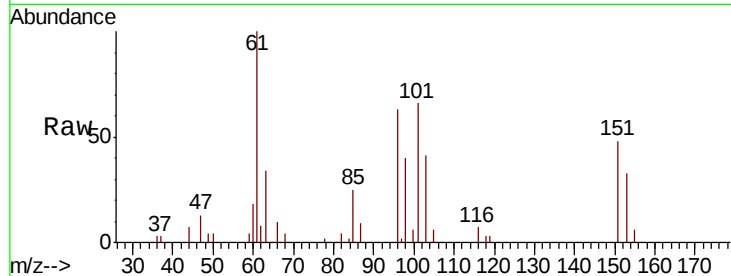
ClientSampleId :

VSTDIC005

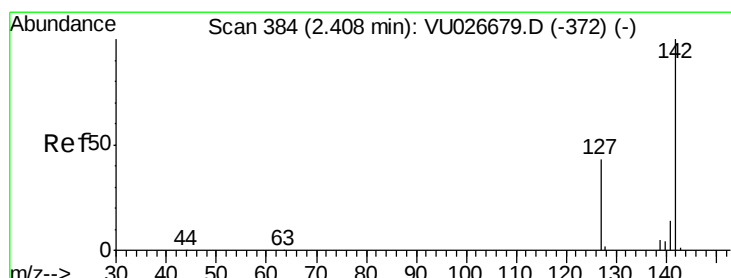
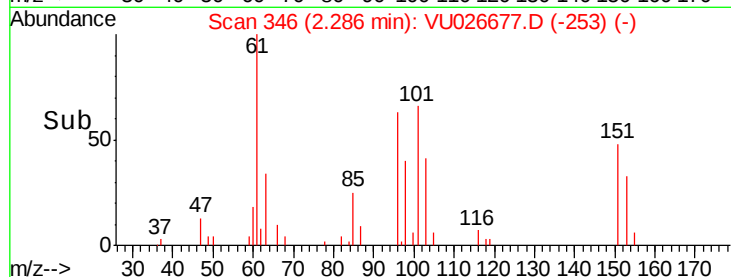
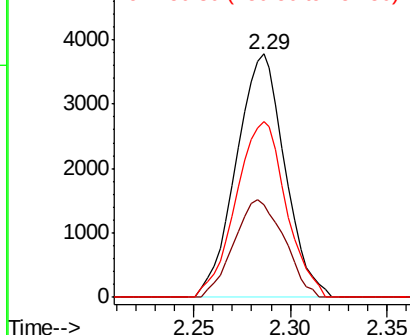
Tot Ion:	101	Resp:	6604
Ion Ratio	Lower	Upper	
101	100		
85	41.3	34.6	52.0
151	74.4	62.7	94.1

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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: 2.37 ug/l

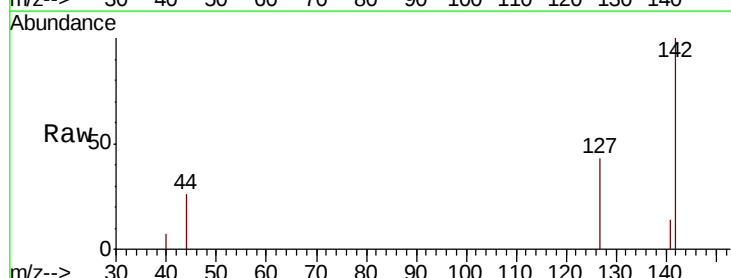
RT: 2.41 min Scan# 384

Delta R.T. 0.00 min

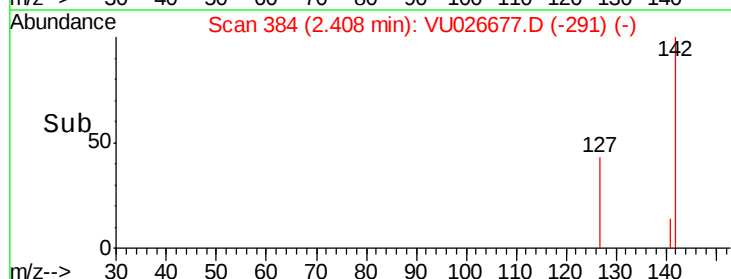
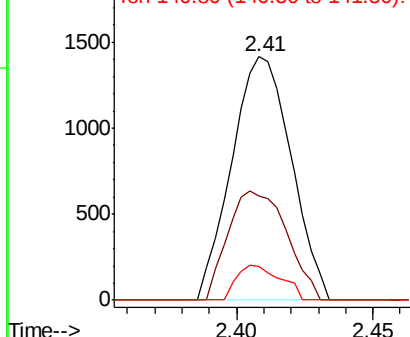
Lab File: VU026677.D

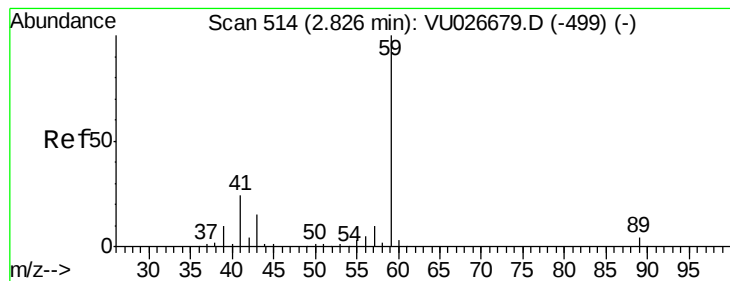
Acq: 11 Sep 2018 10:57

Tgt Ion:	142	Resp:	2139
Ion Ratio	Lower	Upper	
142	100		
127	44.4	34.1	51.1
141	10.7	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

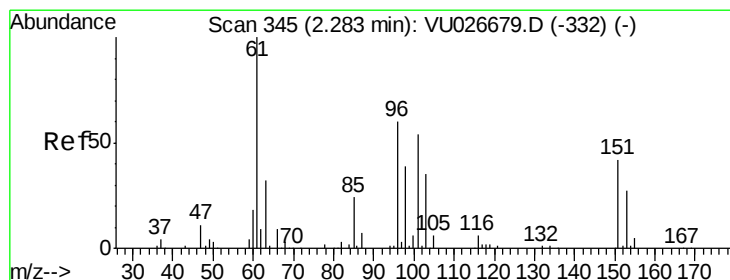
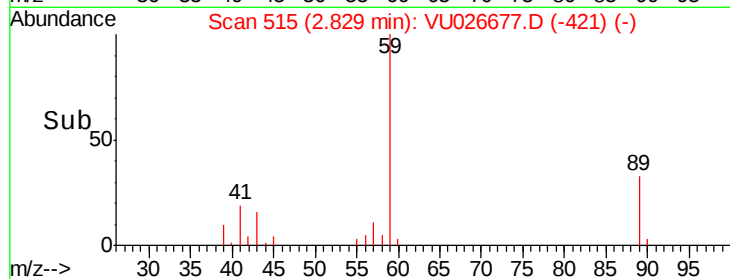
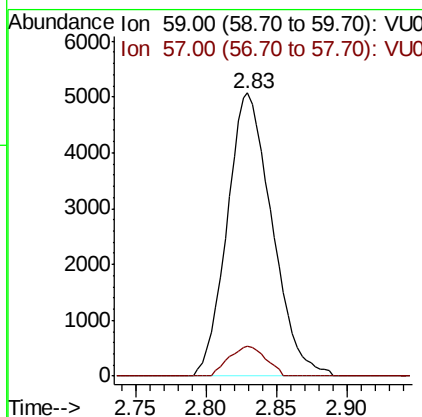
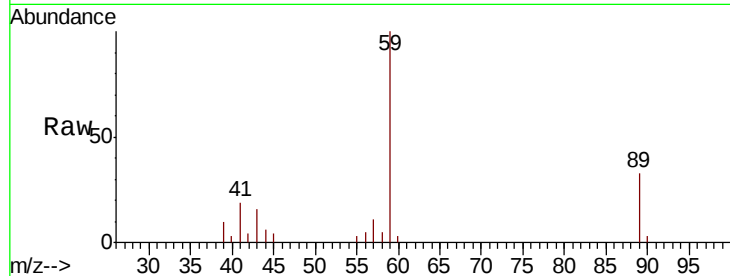
Tert butyl alcohol
Concen: 30.96 ug/l
RT: 2.83 min Scan# 515
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.6	8.0	12.0

Manual Integrations
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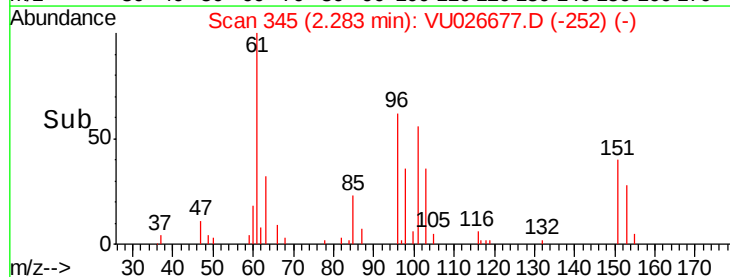
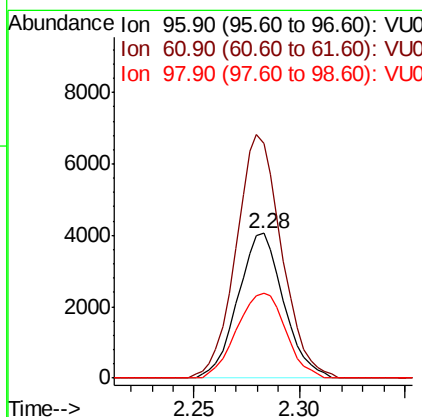
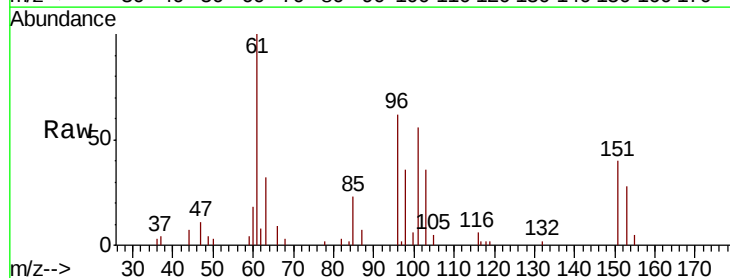
MMDadoda
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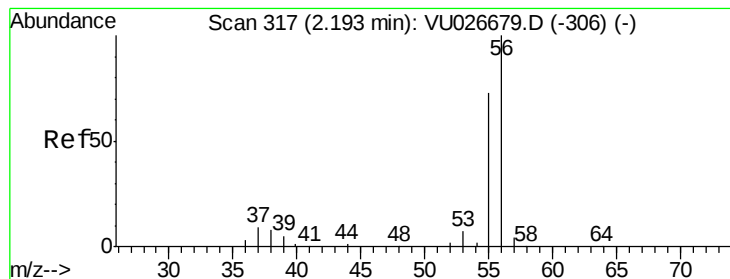


#12

1,1-Dichloroethene
Concen: 5.41 ug/l
RT: 2.28 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.1	133.0	199.6
98	59.1	51.3	76.9





#13

Acrolein

Concen: 30.79 ug/l

RT: 2.19 min Scan# 317

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 7559

Ion Ratio Lower Upper

56 100

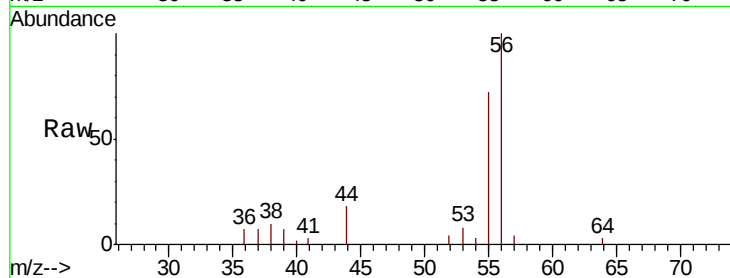
55 75.2 57.4 86.2

Manual Integrations

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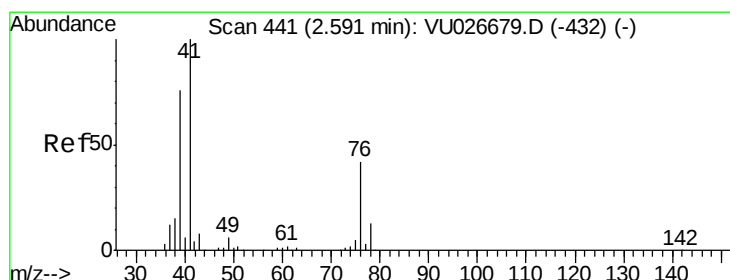
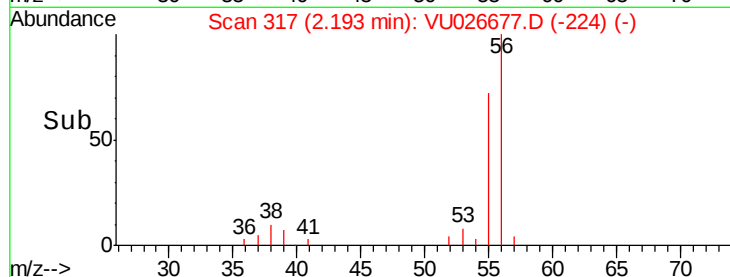
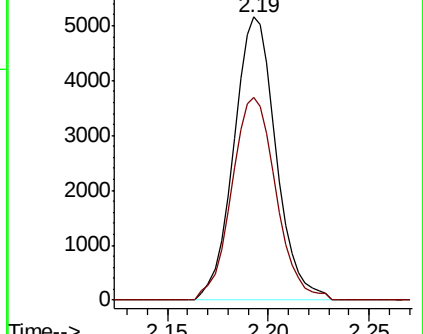
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Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 5.13 ug/l

RT: 2.59 min Scan# 441

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

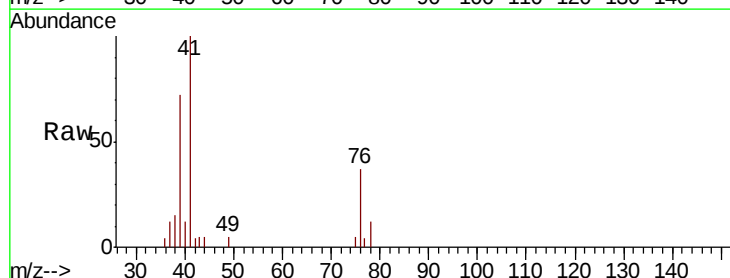
Tgt Ion: 41 Resp: 10455

Ion Ratio Lower Upper

41 100

39 68.3 56.9 85.3

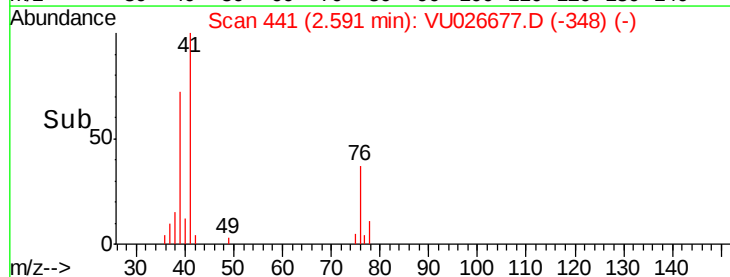
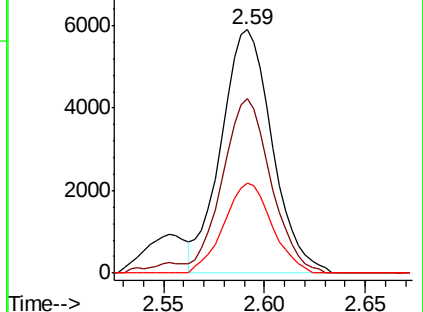
76 34.8 29.7 44.5

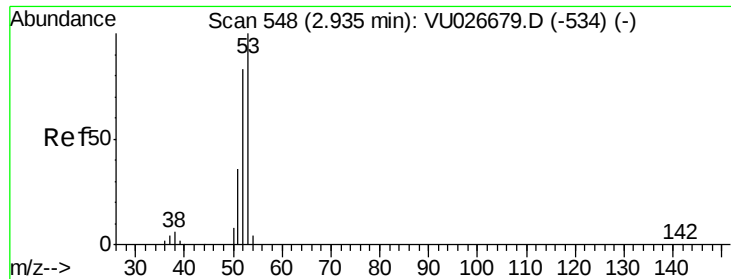


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#15

Acrylonitrile

Concen: 25.92 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

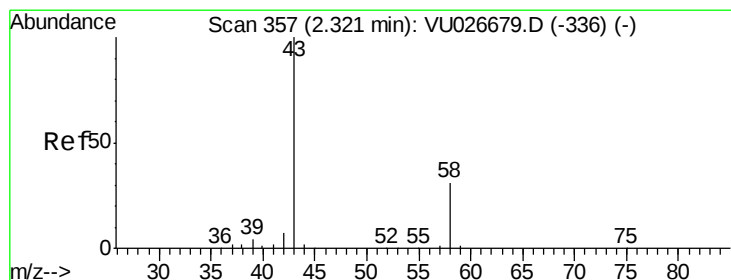
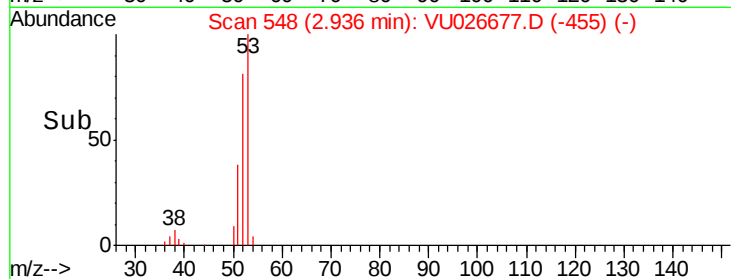
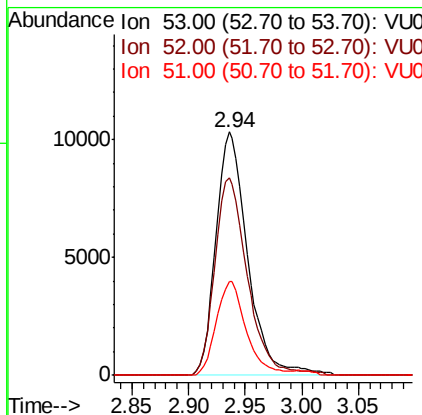
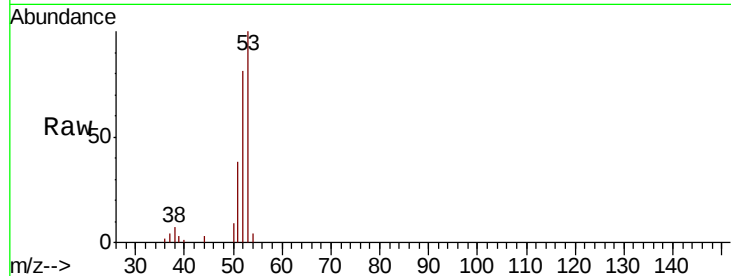
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	20253
Ion	Ratio	Lower	Upper
53	100		
52	83.2	65.8	98.8
51	36.1	27.7	41.5

Manual Integrations
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#16

Acetone

Concen: 28.99 ug/l

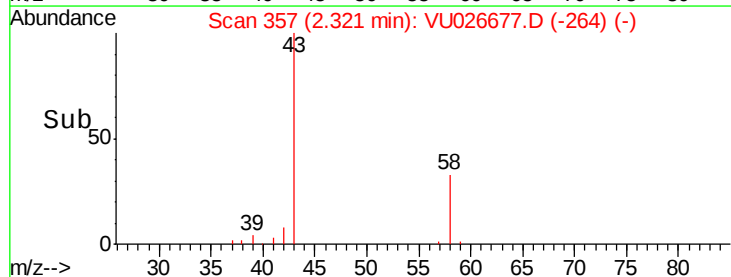
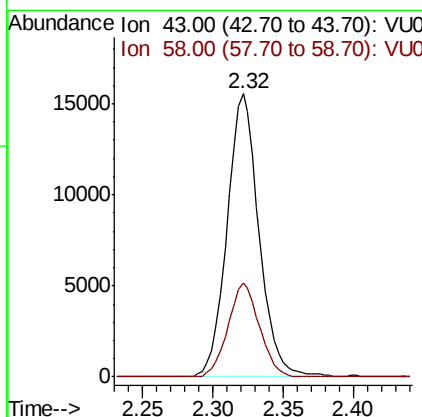
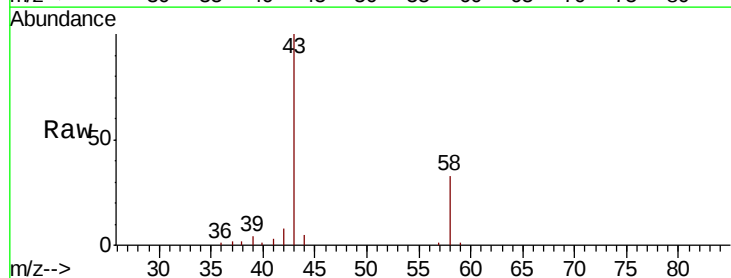
RT: 2.32 min Scan# 357

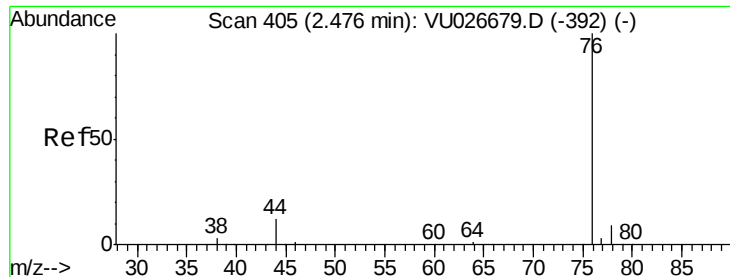
Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Tgt Ion:	43	Resp:	24529
Ion	Ratio	Lower	Upper
43	100		
58	33.2	25.1	37.7





#17

Carbon Disulfide

Concen: 5.30 ug/l

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Tot Ion: 76 Resp: 19088

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.6

Instrument :

MSVOA_U

ClientSampleId :

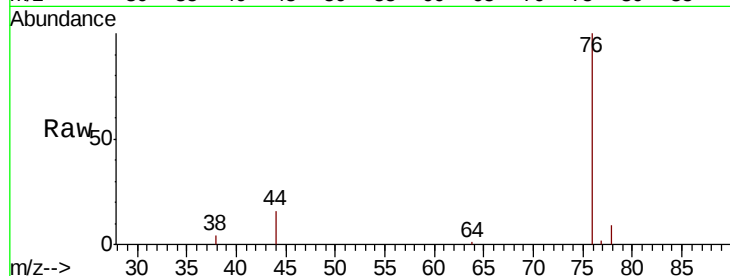
VSTDIC005

Manual Integrations

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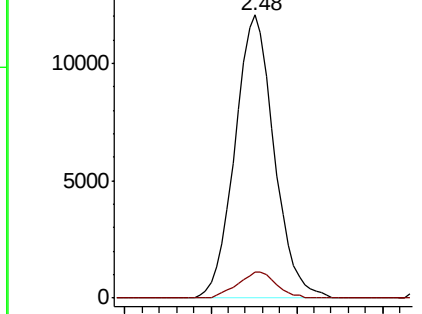
MMDadoda

9/13/2018 4:48:53 PM

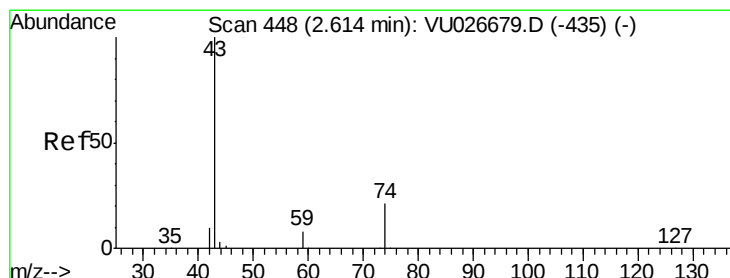
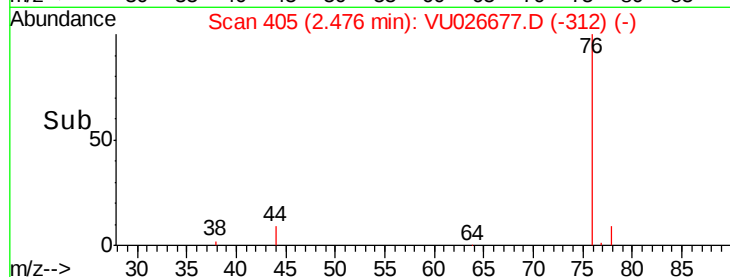


Abundance Ion 75.90 (75.60 to 76.60): VU026677.D (-392) (-)

Ion 77.90 (77.60 to 78.60): VU026677.D (-392) (-)



Time-->



#18

Methyl Acetate

Concen: 5.36 ug/l

RT: 2.61 min Scan# 448

Delta R.T. 0.00 min

Lab File: VU026677.D

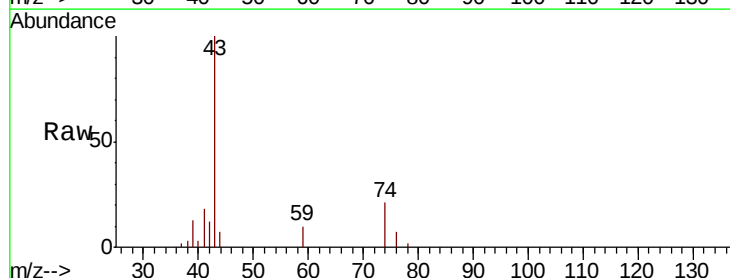
Acq: 11 Sep 2018 10:57

Tgt Ion: 43 Resp: 9786

Ion Ratio Lower Upper

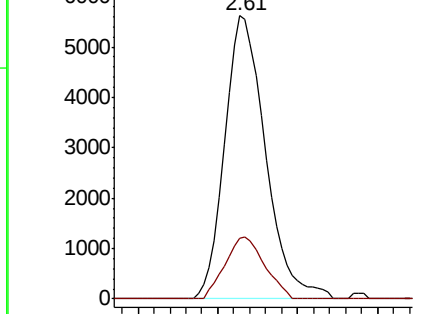
43 100

74 20.9 17.7 26.5

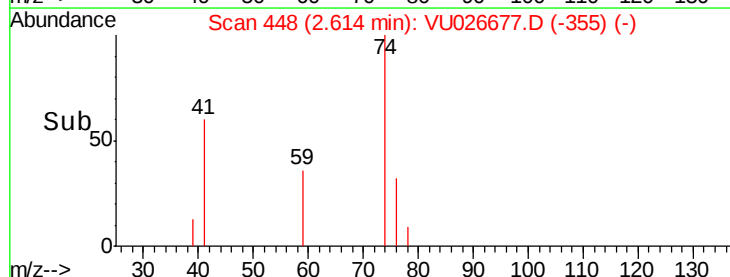


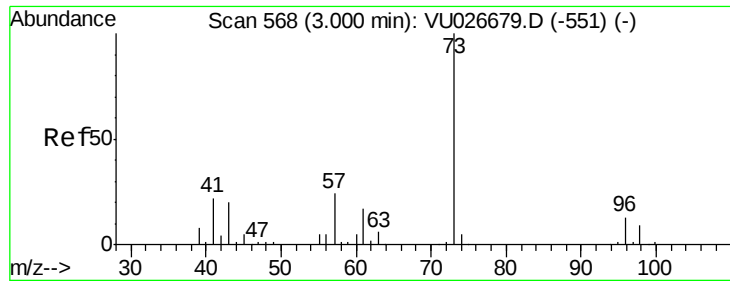
Abundance Ion 43.00 (42.70 to 43.70): VU026677.D (-355) (-)

Ion 74.00 (73.70 to 74.70): VU026677.D (-355) (-)



Time-->





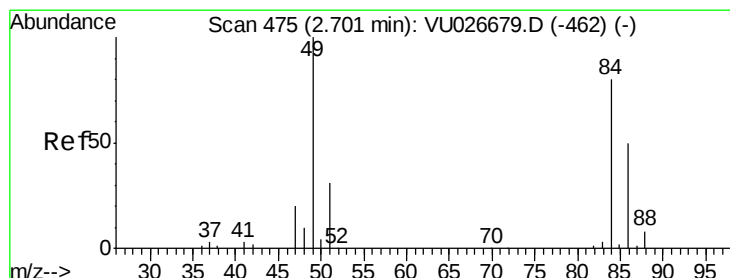
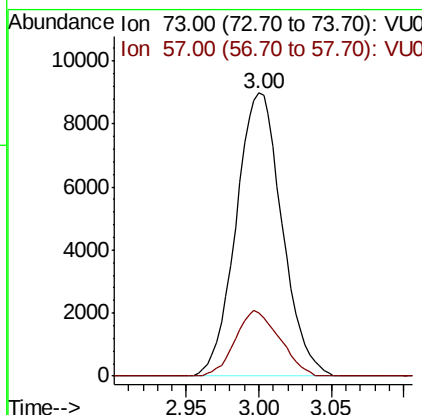
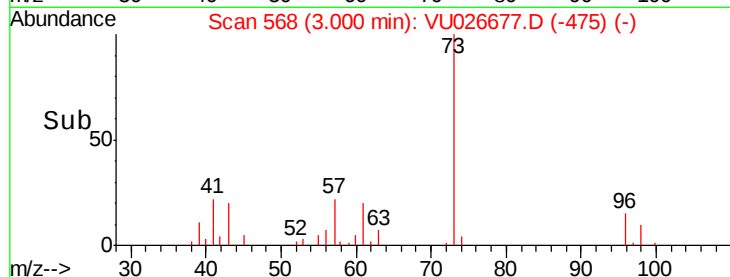
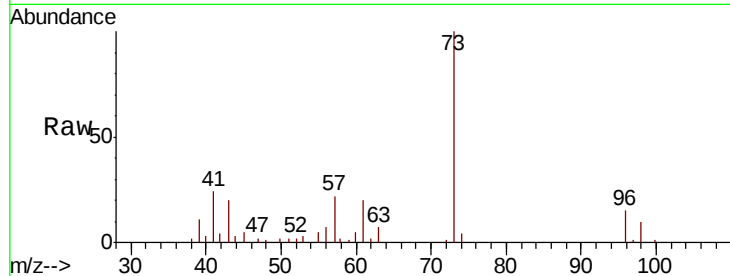
#19
Methvl tert-butvl Ether
Concen: 5.08 ug/l
RT: 3.00 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.2	18.9	28.3

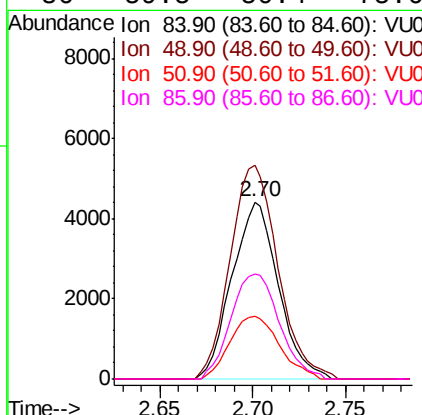
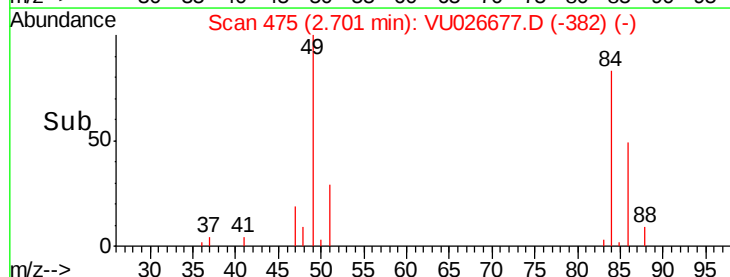
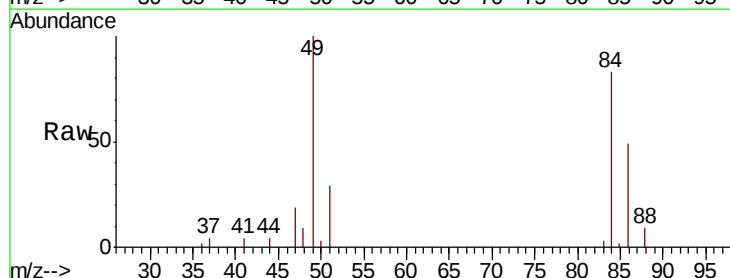
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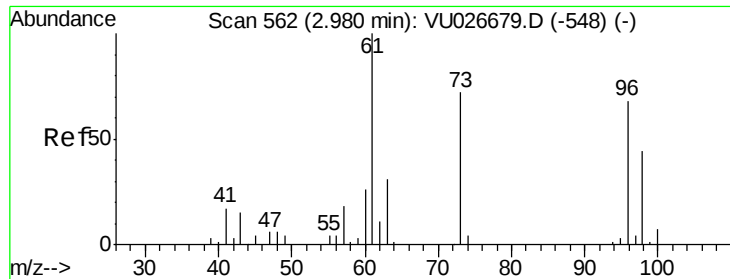
MMDadoda
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#20
Methylene Chloride
Concen: 5.58 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
84	100		
49	120.7	100.6	151.0
51	35.1	30.9	46.3
86	59.5	50.4	75.6





#21

trans-1,2-Dichloroethene

Concen: 5.44 ug/l

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 6480

Ion Ratio Lower Upper

96 100

61 138.2 117.7 176.5

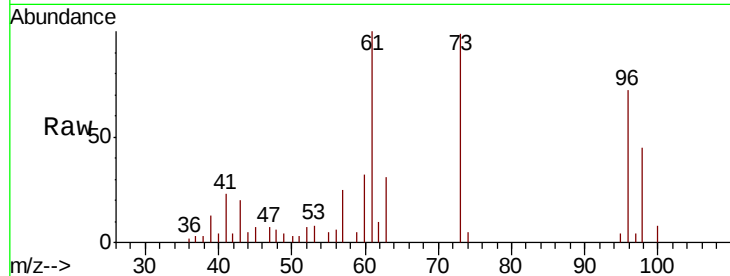
98 62.2 52.0 78.0

Manual Integrations

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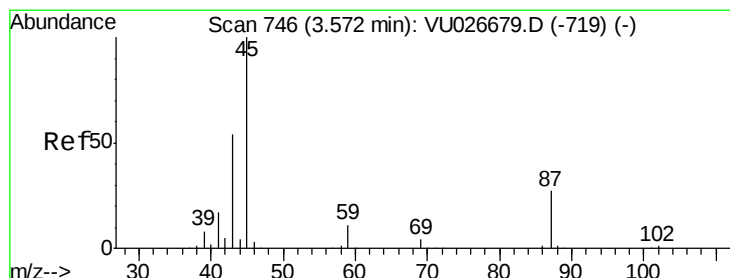
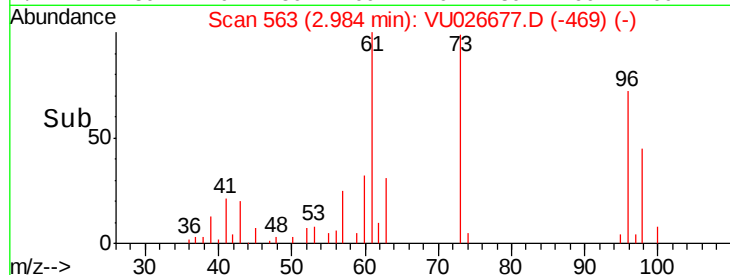
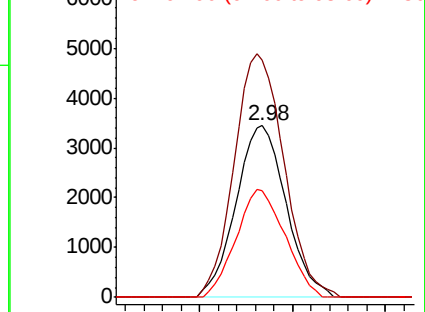


Abundance

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: 5.17 ug/l

RT: 3.57 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Tgt Ion: 45 Resp: 21982

Ion Ratio Lower Upper

45 100

43 66.0 44.6 67.0

87 27.8 21.4 32.0

59 11.3 9.0 13.4

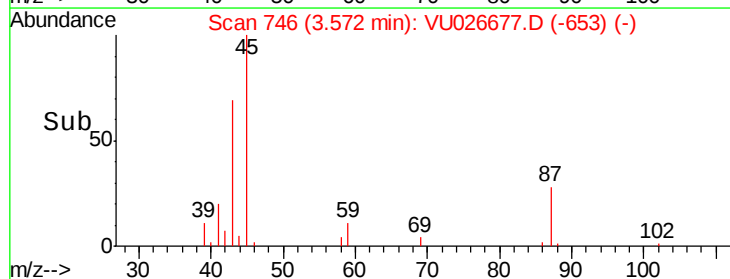
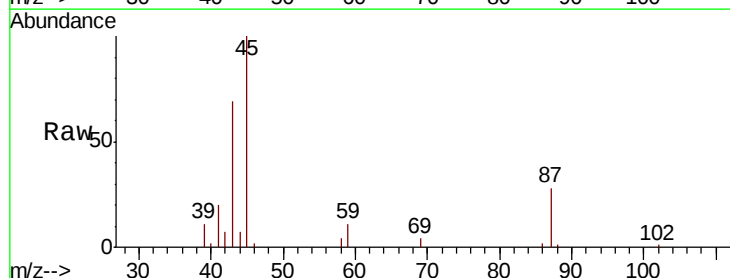
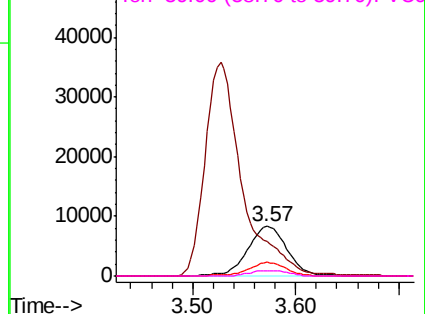
Abundance

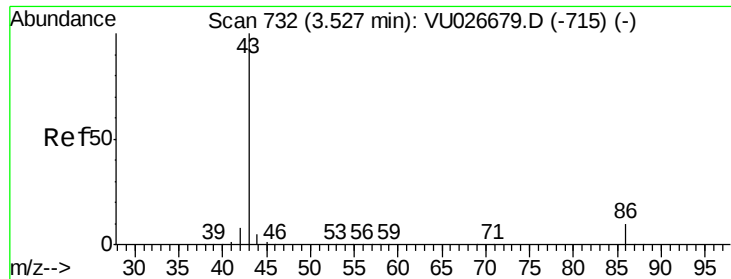
Ion 45.00 (44.70 to 45.70): VU0

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: 24.93 ug/l

RT: 3.53 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 90040

Ion Ratio Lower Upper

43 100

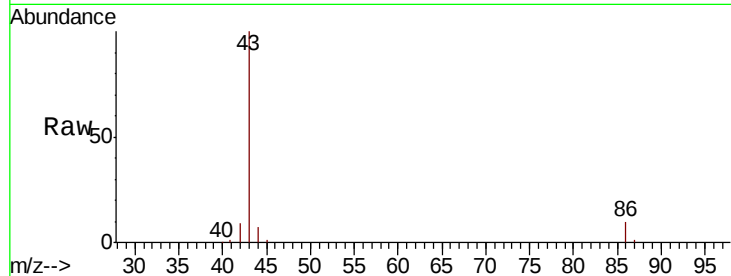
86 9.8 7.8 11.8

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

3.53

40000

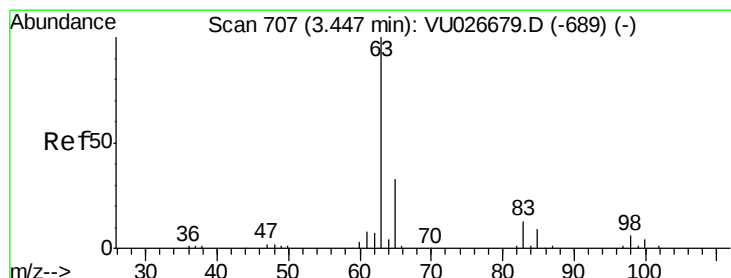
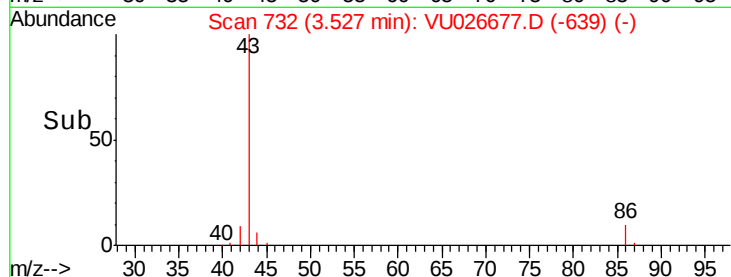
30000

20000

10000

0

Time--> 3.40 3.50 3.60 3.70



#24

1,1-Dichloroethane

Concen: 5.59 ug/l

RT: 3.45 min Scan# 707

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

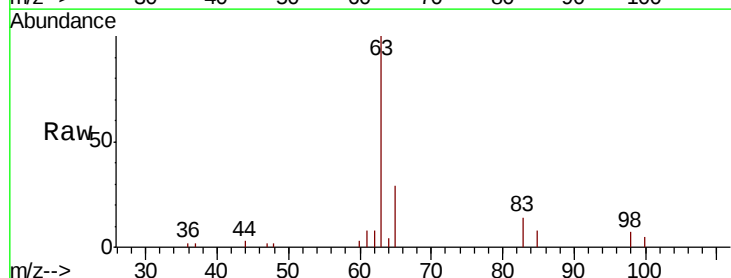
Tgt Ion: 63 Resp: 13397

Ion Ratio Lower Upper

63 100

98 6.5 3.1 9.4

100 4.9 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0

8000

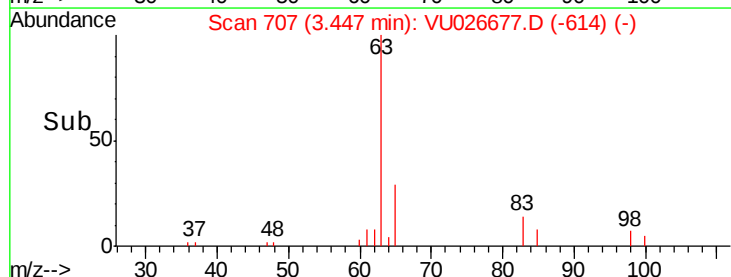
6000

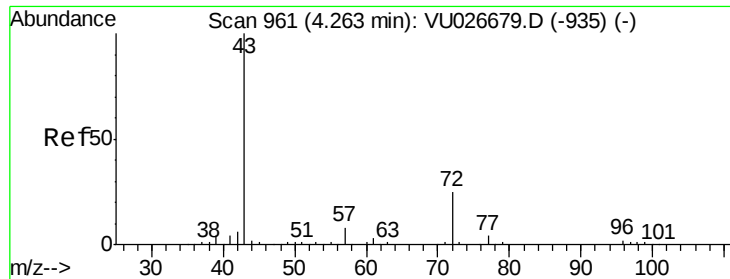
4000

2000

0

Time--> 3.35 3.40 3.45 3.50





#25

2-Butanone

Concen: 26.60 ug/l

RT: 4.27 min Scan# 962

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 30320

Ion Ratio Lower Upper

43 100

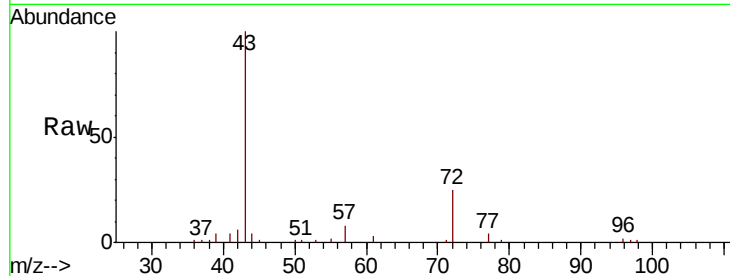
72 25.4 20.3 30.5

Manual Integrations

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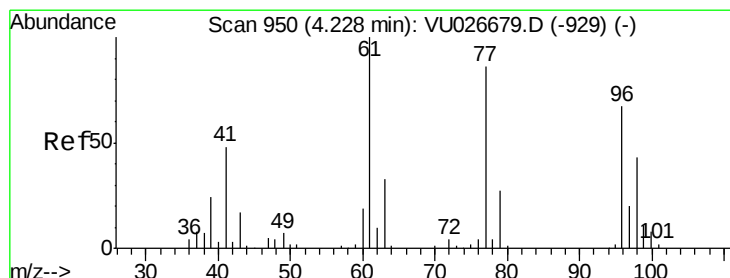
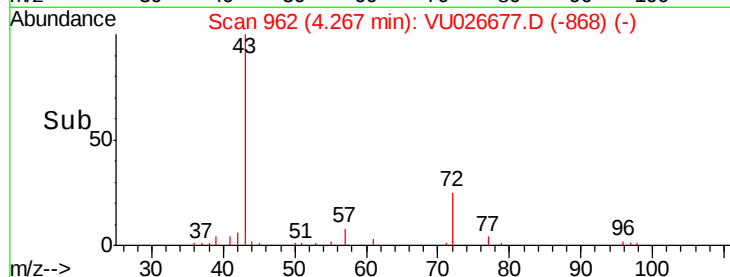
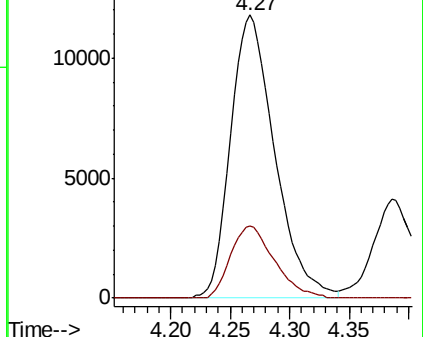
MMDadoda

9/13/2018 4:48:53 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#26

2,2-Dichloropropane

Concen: 5.24 ug/l

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU026677.D

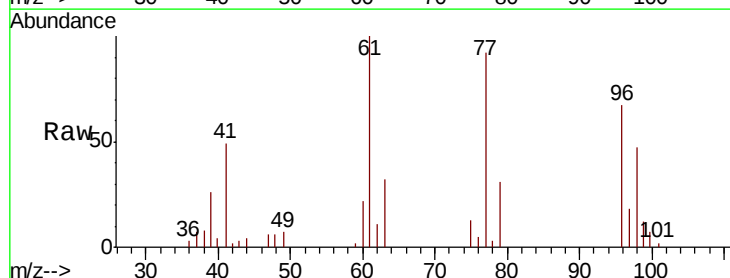
Acq: 11 Sep 2018 10:57

Tgt Ion: 77 Resp: 10321

Ion Ratio Lower Upper

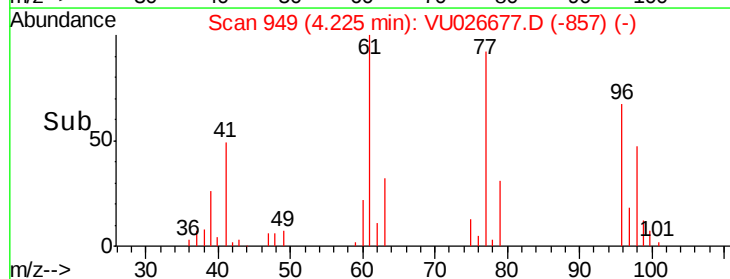
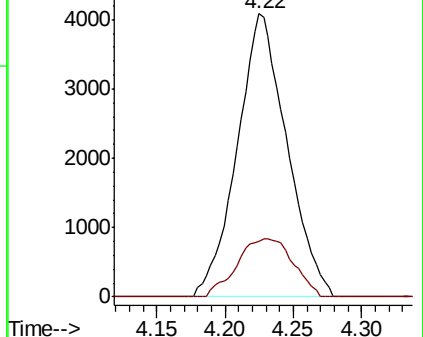
77 100

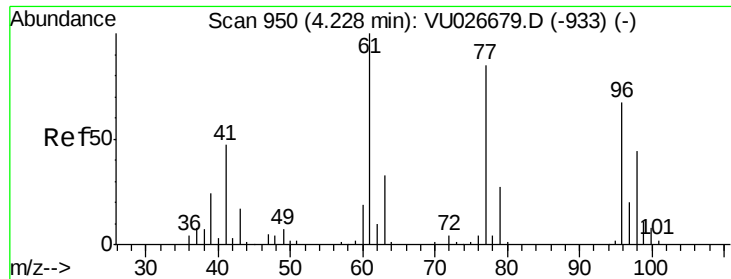
97 23.2 11.6 34.8



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 5.38 ug/l

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU026677.D

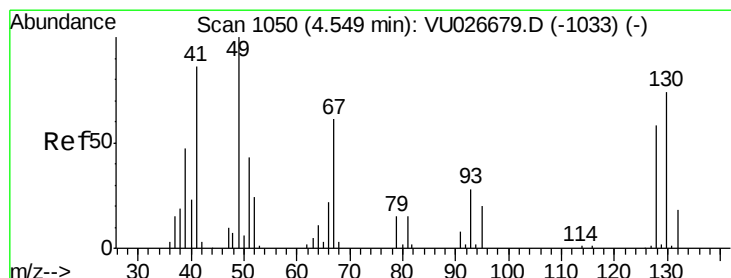
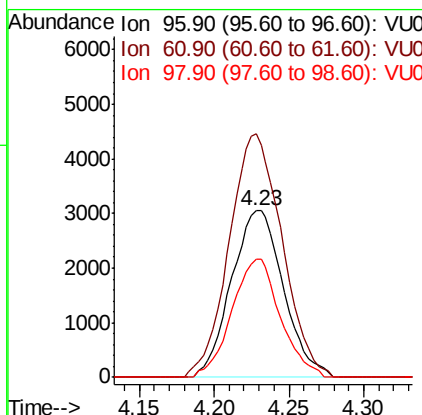
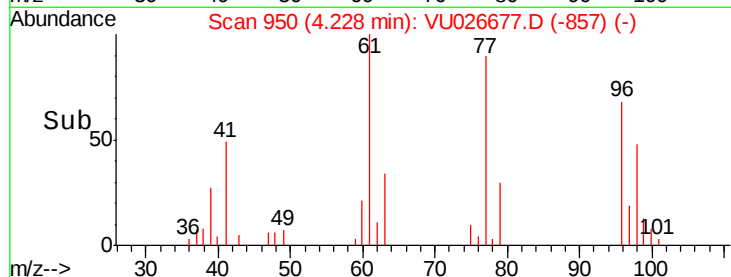
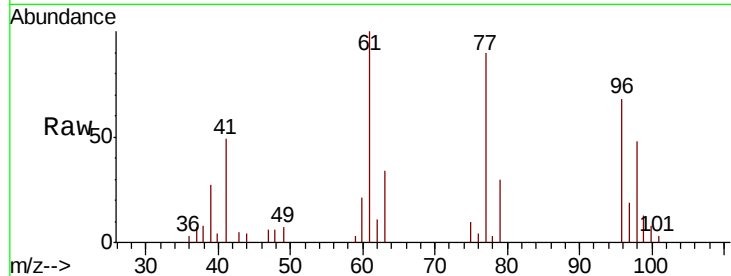
Acq: 11 Sep 2018 10:57

Tot Ion:	96	Resp:	7383
Ion	Ratio	Lower	Upper
96	100		
61	148.3	0.0	301.8
98	65.8	0.0	127.2

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

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#28

Bromochloromethane

Concen: 5.57 ug/l

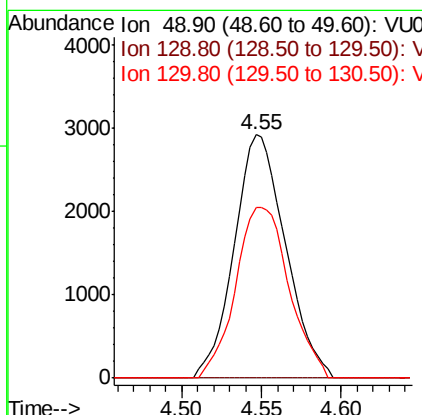
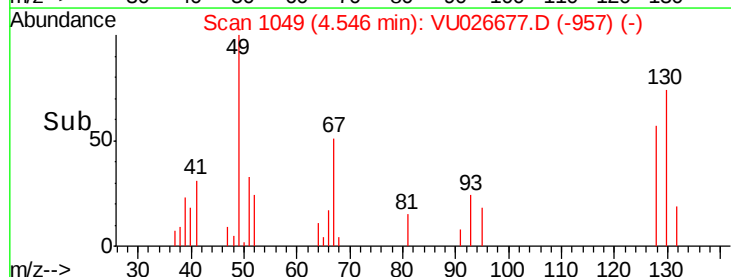
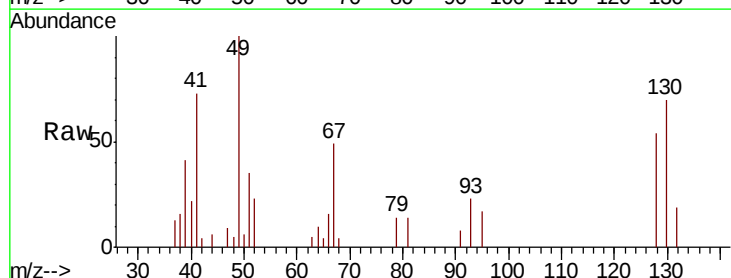
RT: 4.55 min Scan# 1049

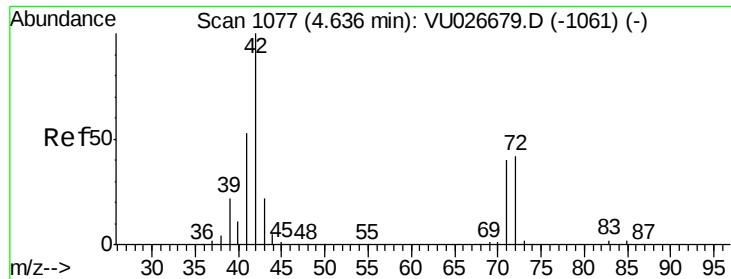
Delta R.T. -0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Tgt Ion:	49	Resp:	6392
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	73.0	59.8	89.6





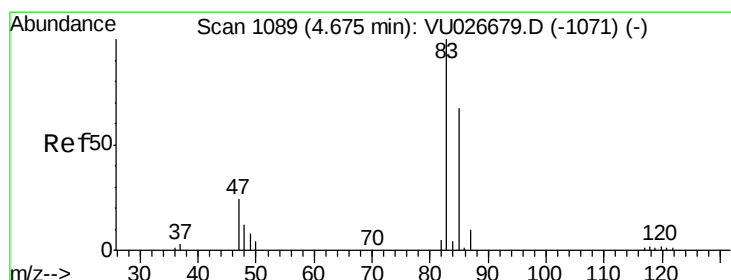
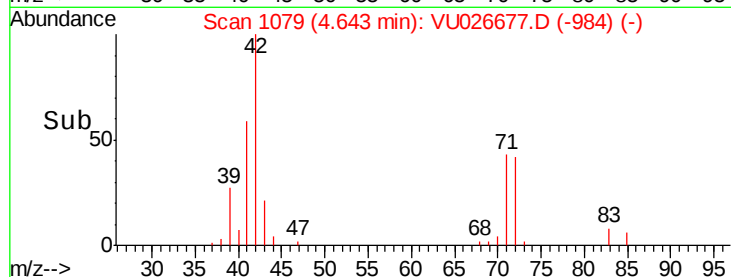
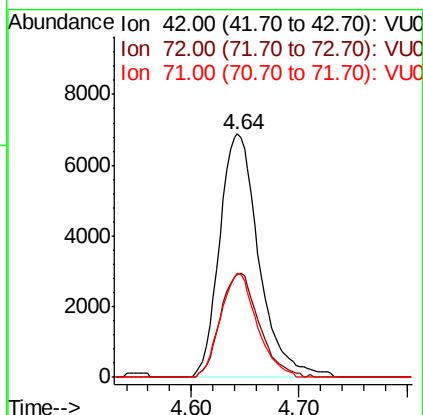
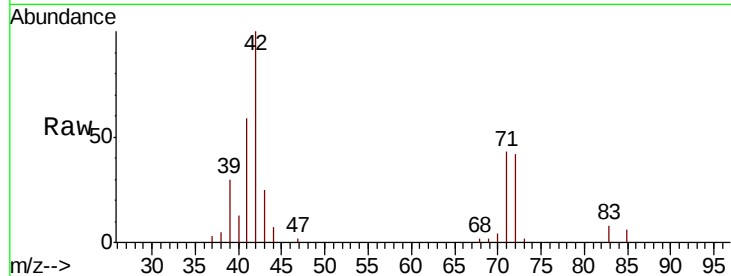
#29
Tetrahydrofuran
Concen: 25.46 ug/l
RT: 4.64 min Scan# 1079
Delta R.T. 0.01 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.9	34.4	51.6
71	39.6	32.4	48.6

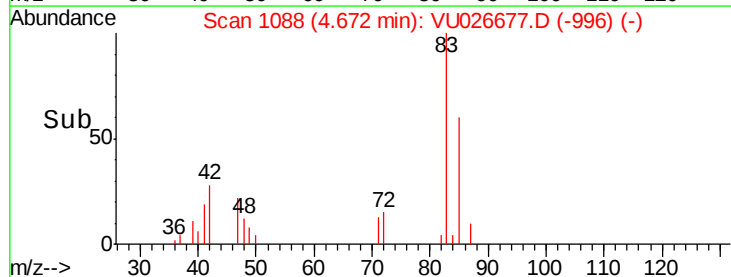
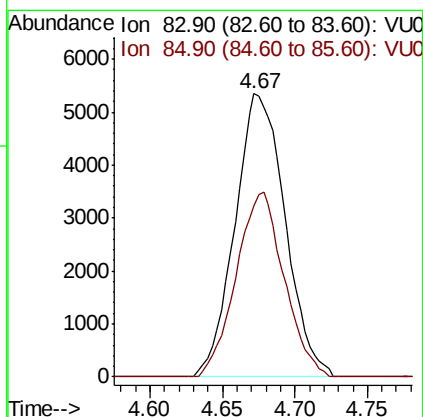
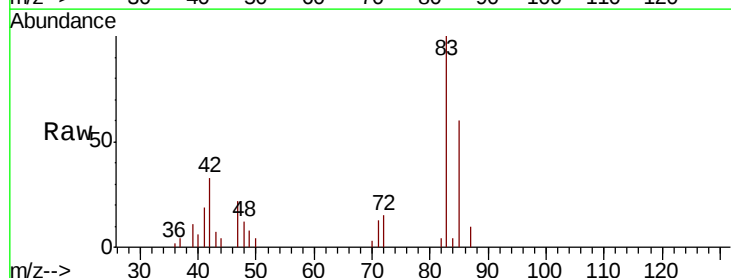
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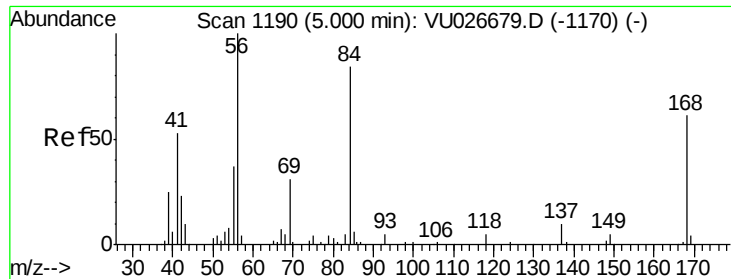
MMDadoda
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#30
Chloroform
Concen: 5.45 ug/l
RT: 4.67 min Scan# 1088
Delta R.T. -0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.4	53.3	79.9





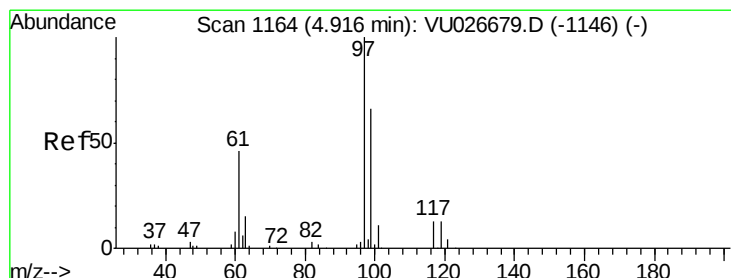
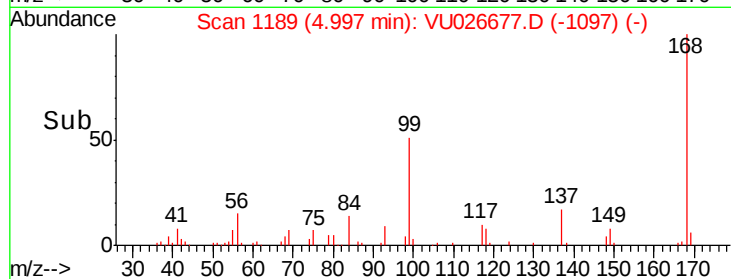
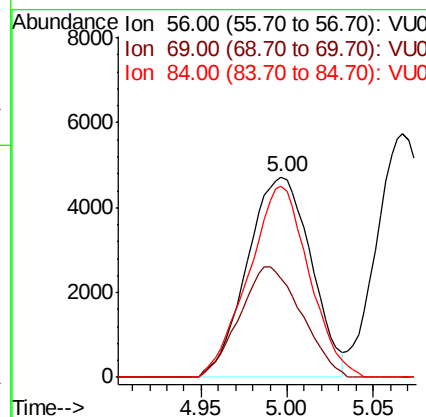
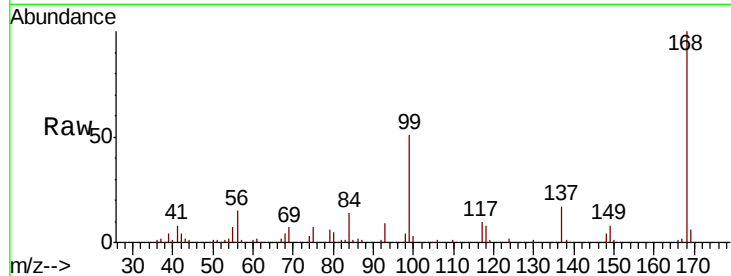
#31
Cyclohexane
Concen: 4.90 ug/l
RT: 5.00 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	49.5	24.9	37.3#
84	95.6	66.6	100.0

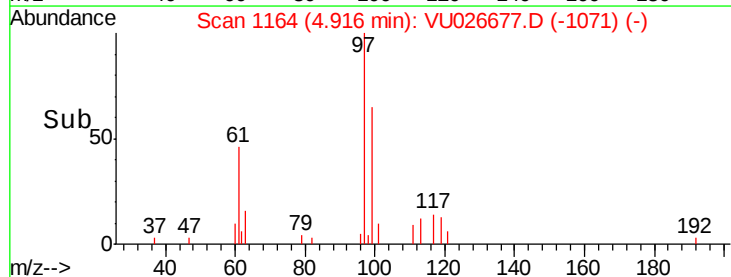
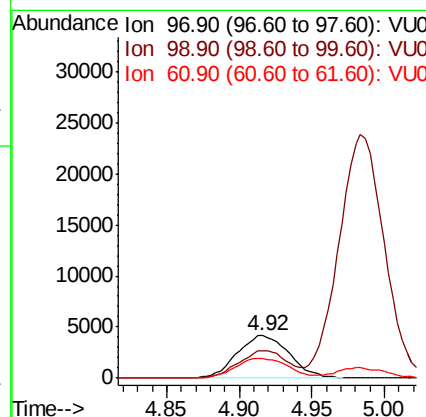
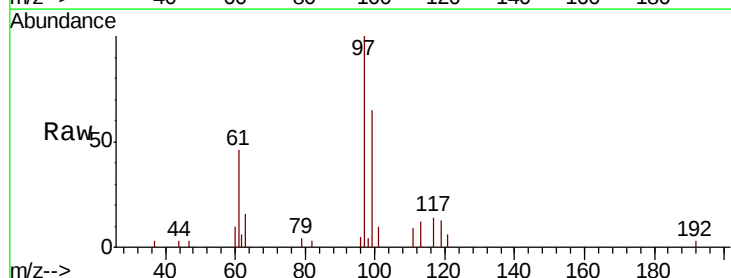
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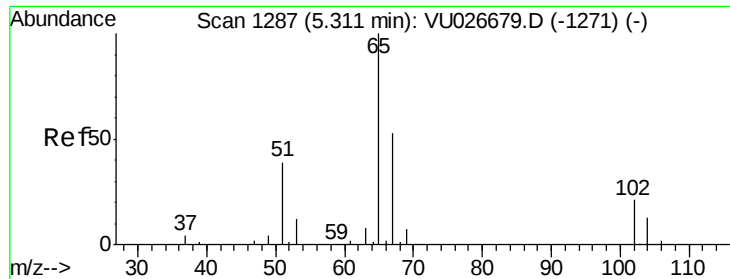
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 5.30 ug/l
RT: 4.92 min Scan# 1164
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
97	100		
99	59.8	52.2	78.2
61	46.3	36.8	55.2





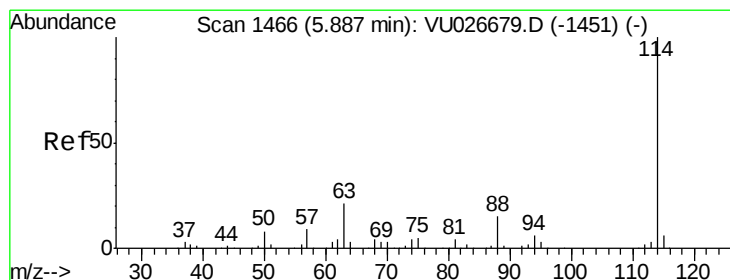
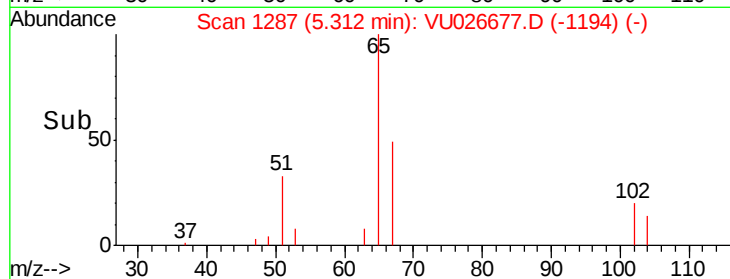
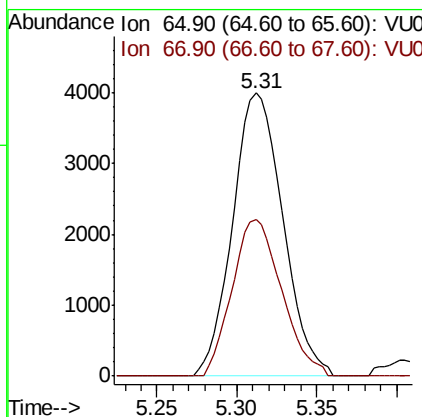
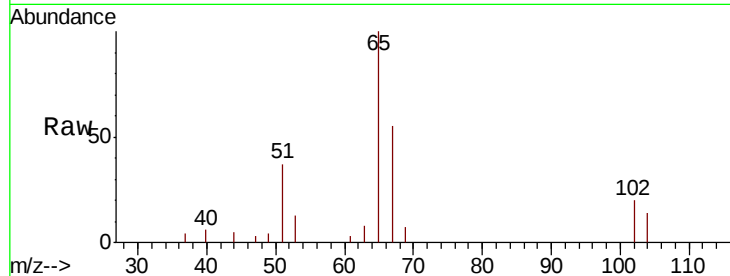
#33
 1,2-Dichloroethane-d4
 Concen: 5.74 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	106.4

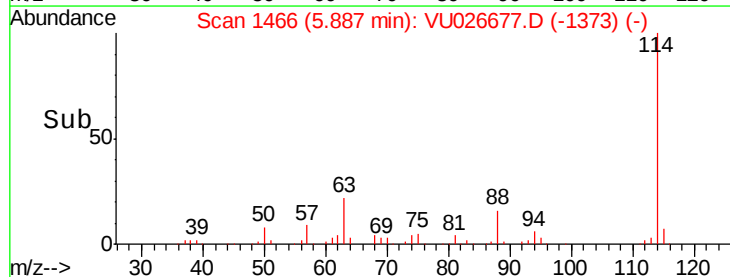
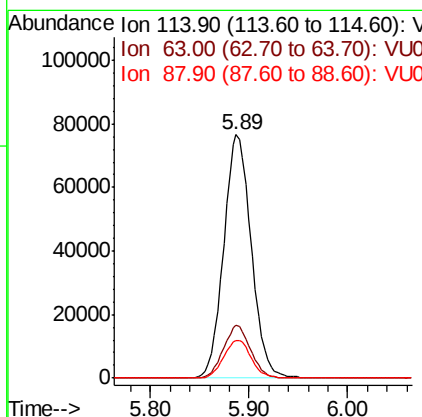
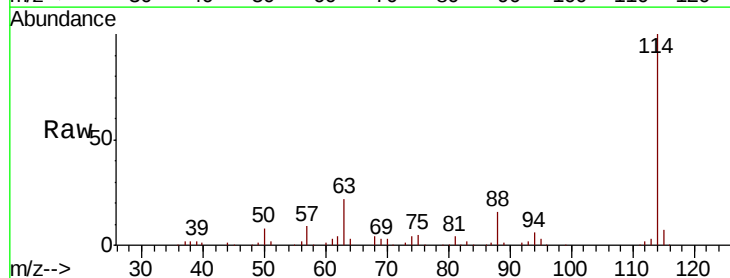
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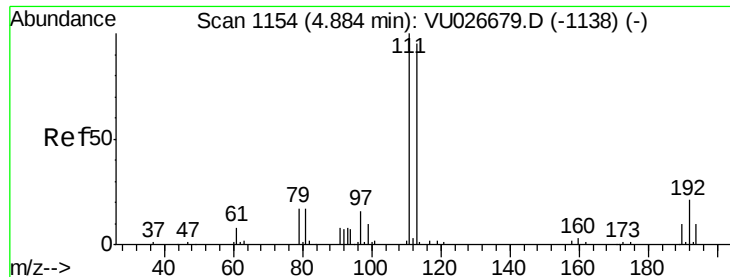
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	41.4
88	15.6	0.0	30.8





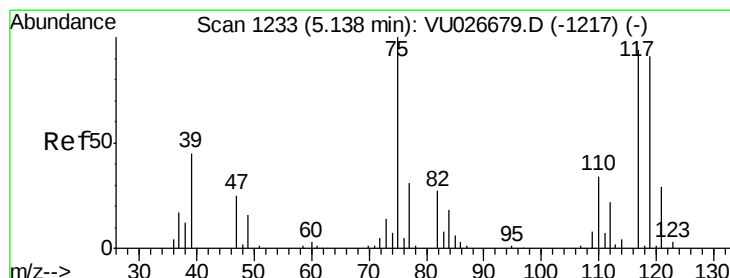
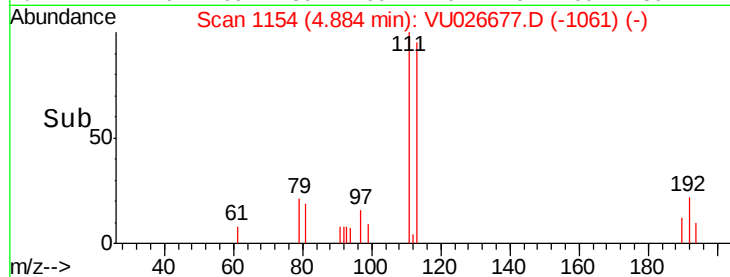
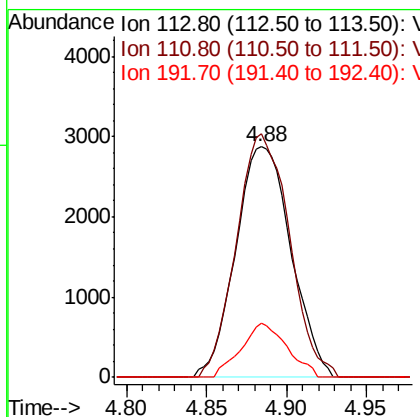
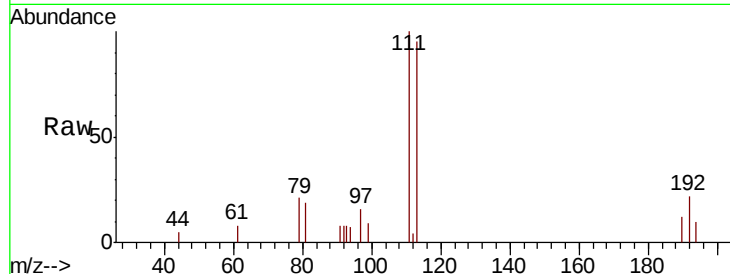
#35
 Dibromofluoromethane
 Concen: 5.56 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.1	124.7
192	19.5	17.4	26.2

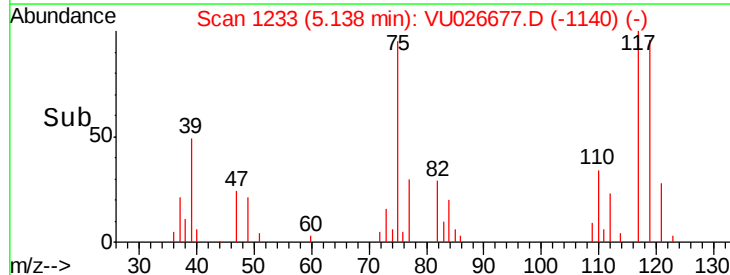
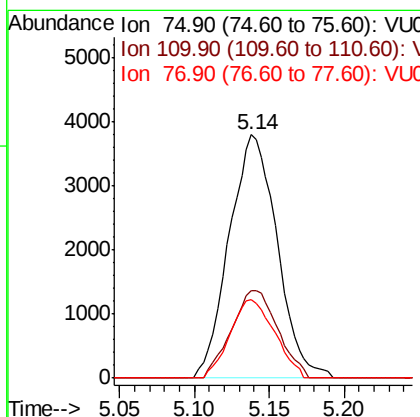
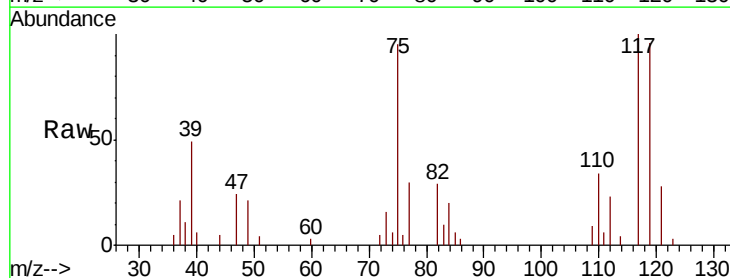
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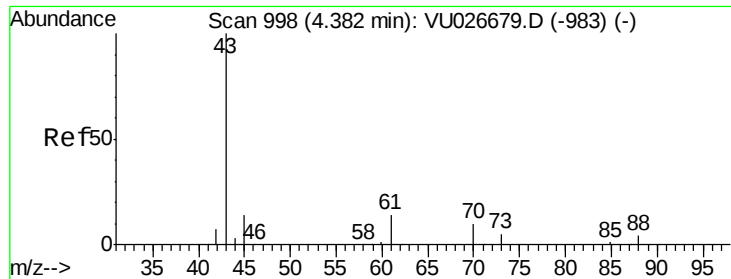
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#36
 1,1-Dichloropropene
 Concen: 5.02 ug/l
 RT: 5.14 min Scan# 1233
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.3	51.9
77	29.8	24.9	37.3





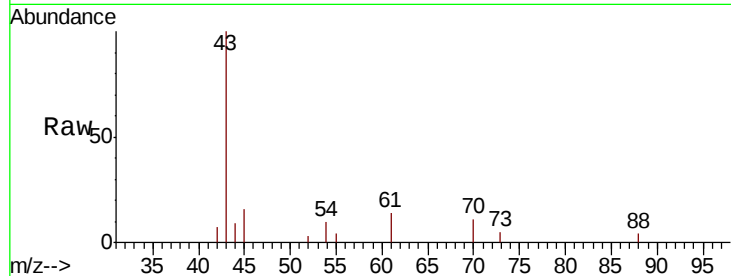
#37
Ethyl Acetate
Concen: 5.48 ug/l
RT: 4.39 min Scan# 999
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

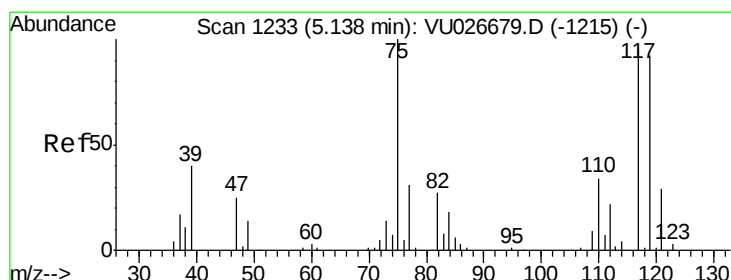
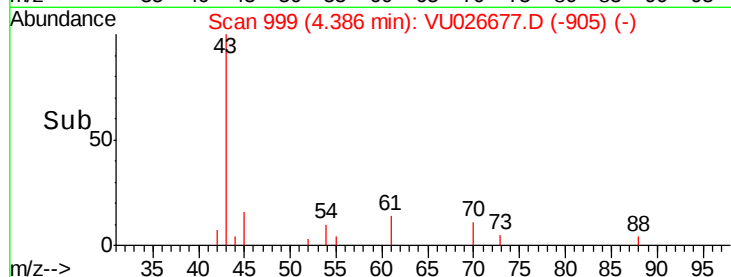
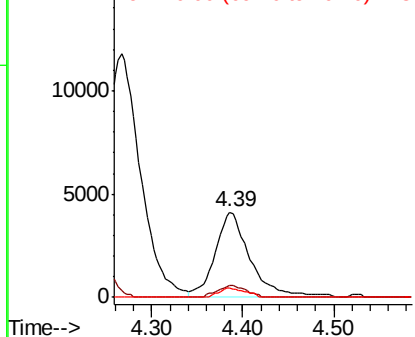
Tot Ion	Ratio	Lower	Upper
43	100		
61	11.2	11.5	17.3#
70	8.1	7.8	11.8

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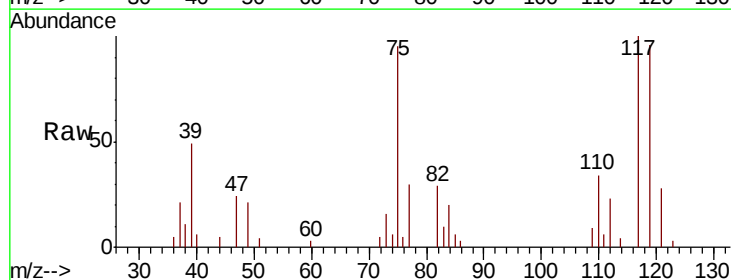


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 70.00 (69.70 to 70.70): VU0

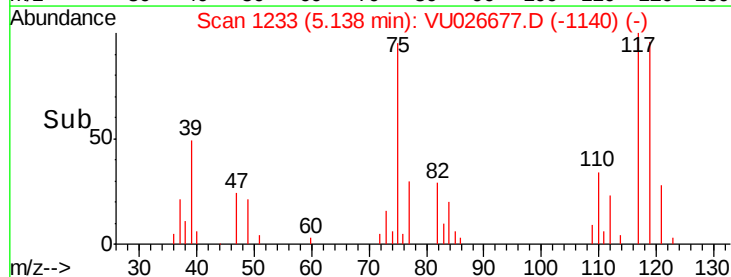
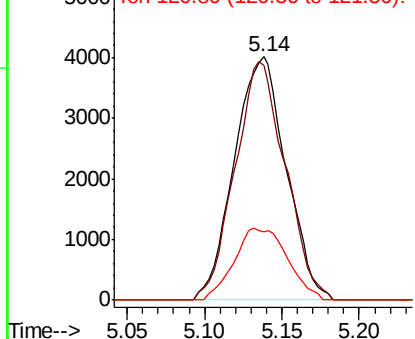


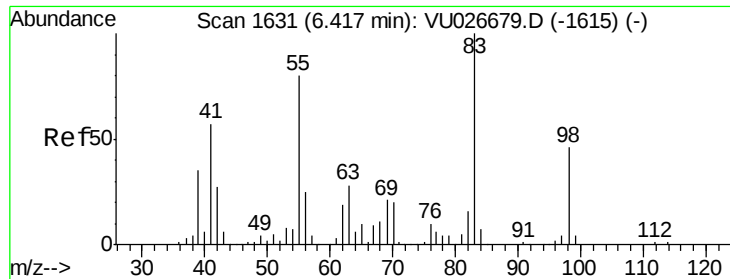
#38
Carbon Tetrachloride
Concen: 5.27 ug/l
RT: 5.14 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.8	116.8
121	28.2	25.0	37.4



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





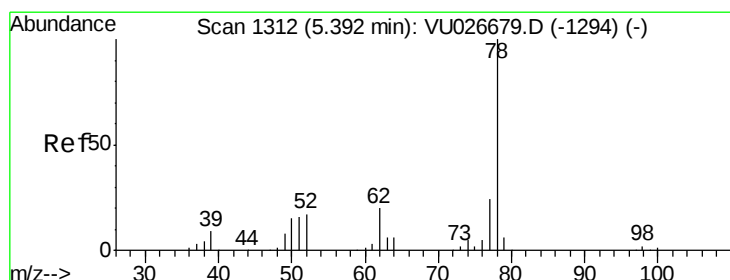
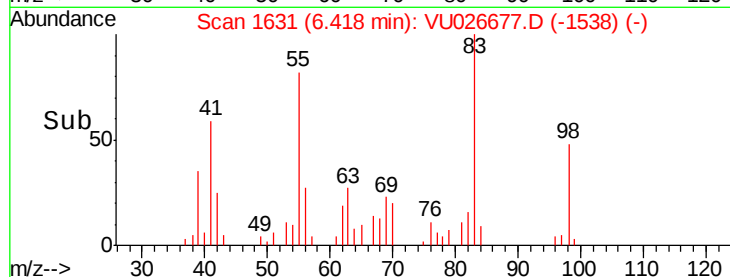
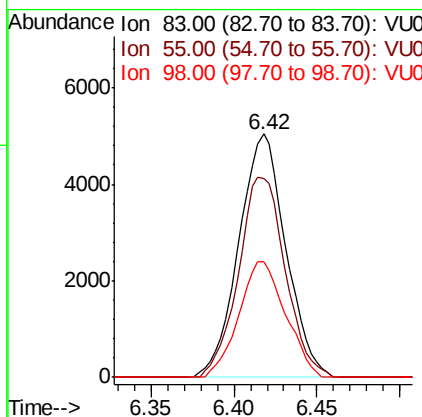
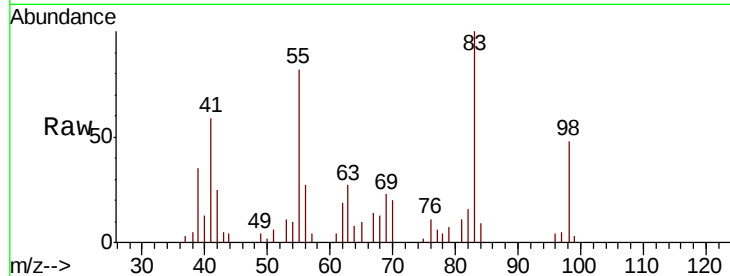
#39
Methvlcvclohexane
Concen: 4.97 ug/l
RT: 6.42 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.8	63.8	95.6
98	47.7	37.2	55.8

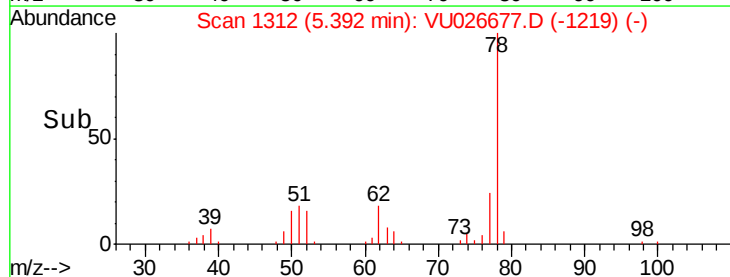
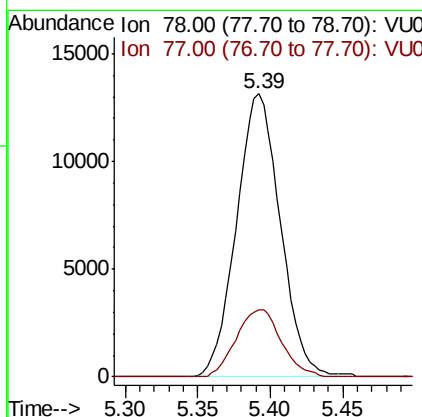
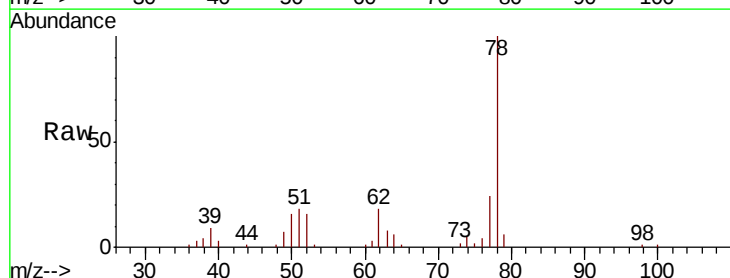
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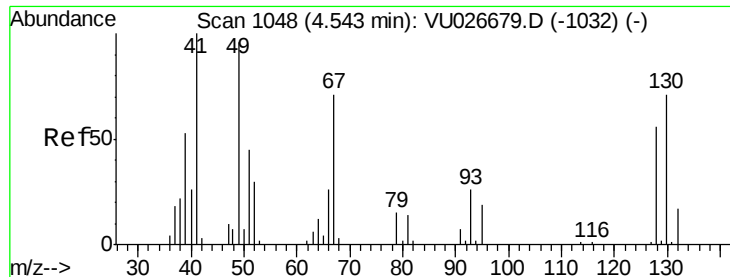
MMDadoda
9/13/2018 4:48:53 PM



#40
Benzene
Concen: 5.28 ug/l
RT: 5.39 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.5	29.3





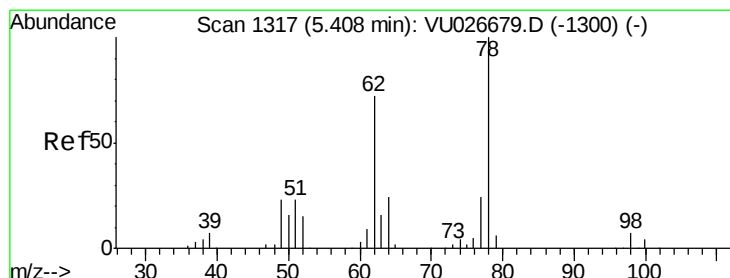
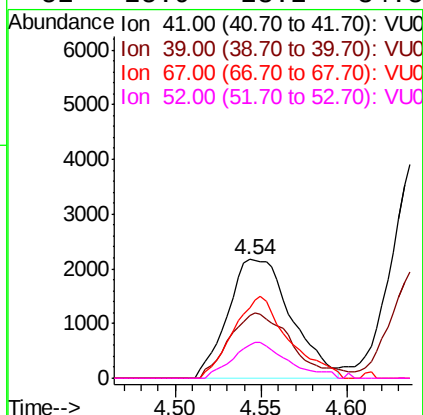
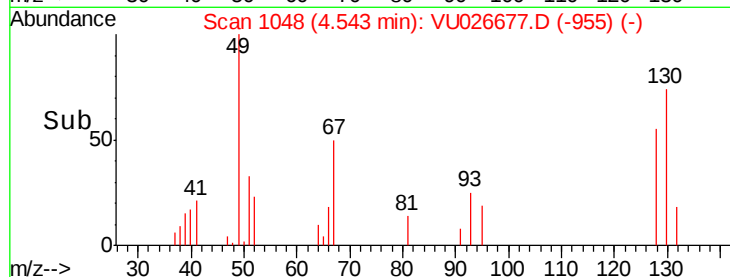
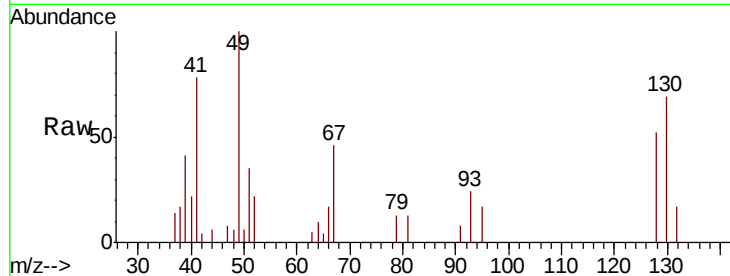
#41
Methacrylonitrile
Concen: 5.28 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	55.3	42.9	64.3	
67	59.9	56.6	84.8	
52	25.9	23.2	34.8	

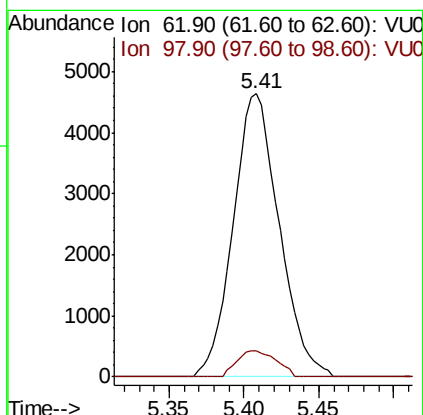
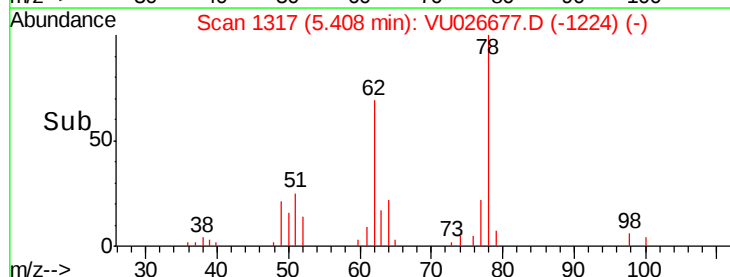
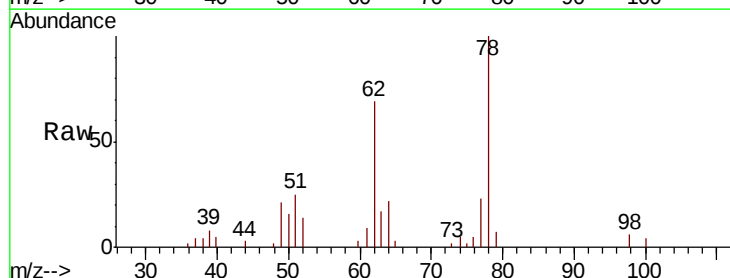
Manual Integrations
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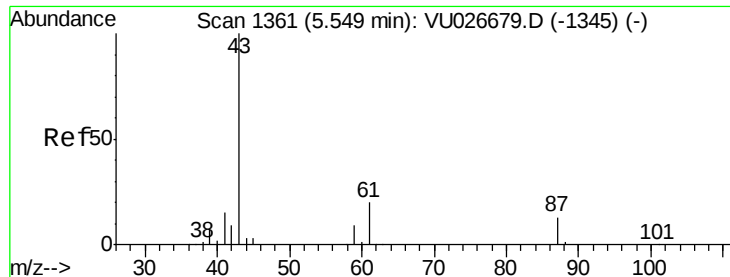
MMDadoda
9/13/2018 4:48:53 PM



#42
1,2-Dichloroethane
Concen: 5.32 ug/l
RT: 5.41 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	7.9	0.0	17.8	





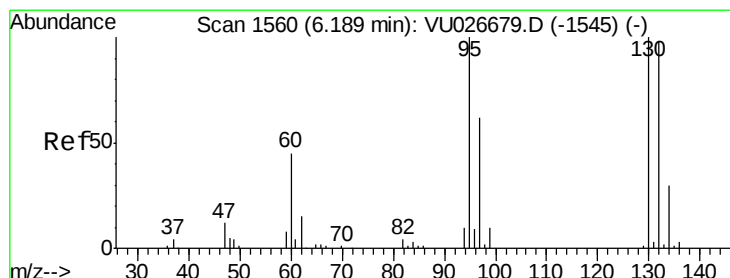
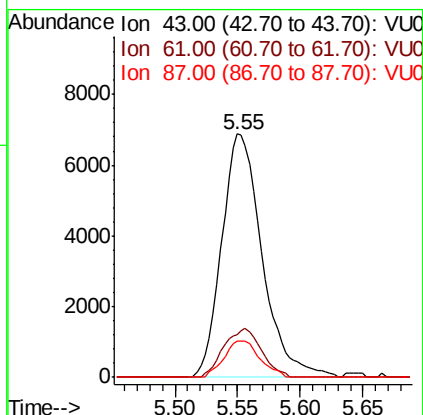
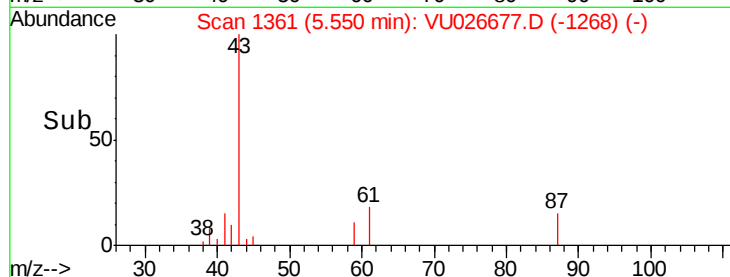
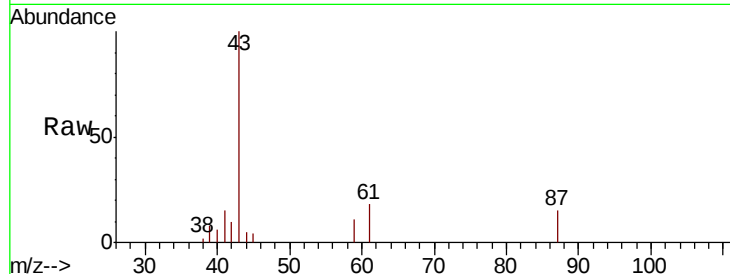
#43
Isopropyl Acetate
Concen: 4.98 ug/l
RT: 5.55 min Scan# 1361
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.7	16.0	24.0
87	13.3	10.1	15.1

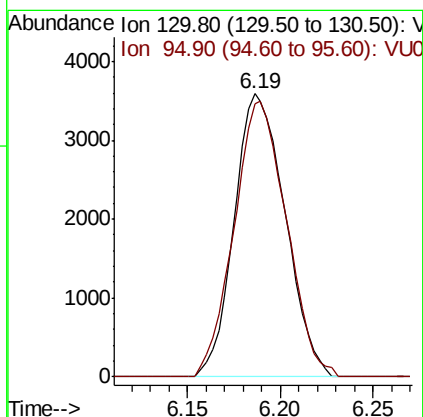
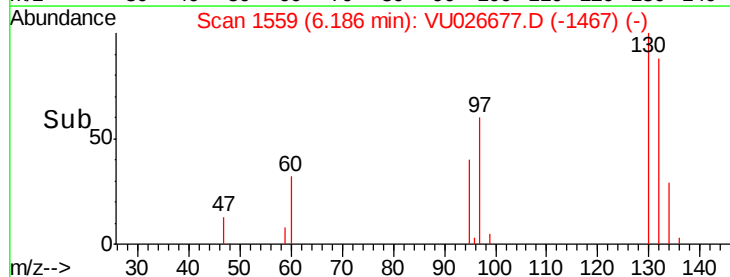
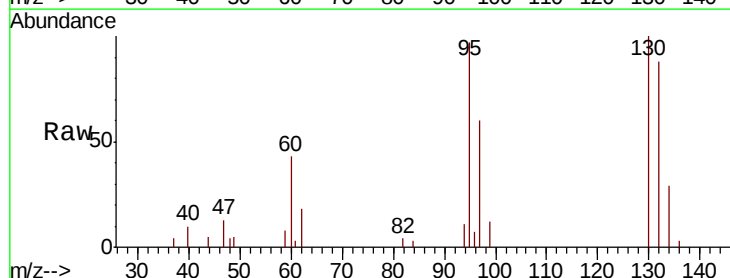
Manual Integrations
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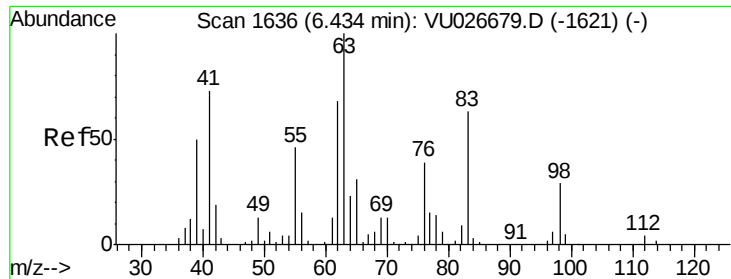
MMDadoda
9/13/2018 4:48:53 PM



#44
Trichloroethene
Concen: 5.28 ug/l
RT: 6.19 min Scan# 1559
Delta R.T. -0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.5	0.0	199.4





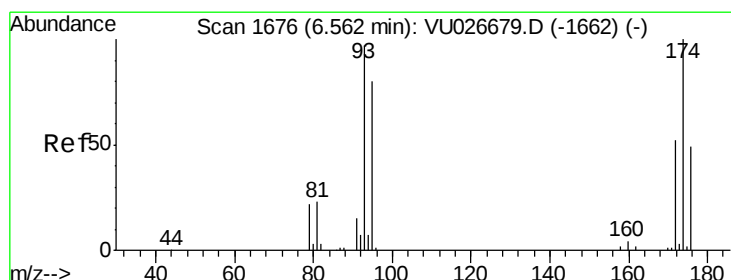
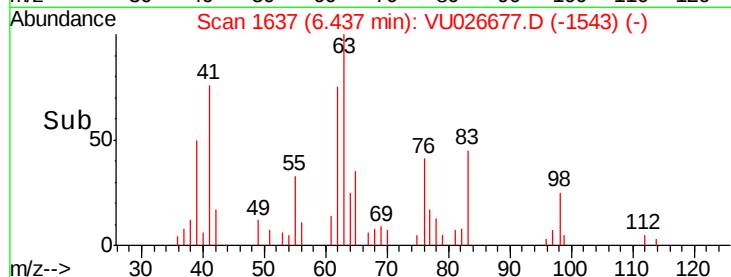
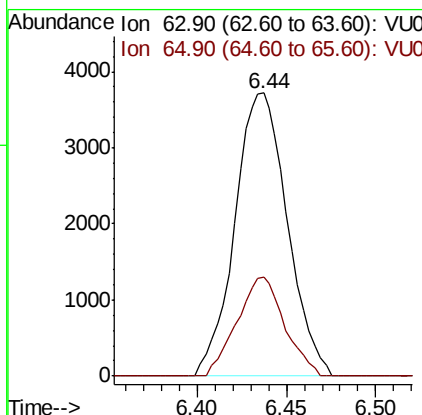
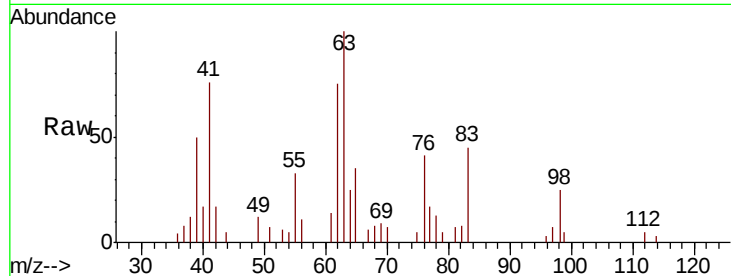
#45
 1,2-Dichloropropane
 Concen: 5.36 ug/l
 RT: 6.44 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 7619
 Ion Ratio Lower Upper
 63 100
 65 35.0 25.0 37.4

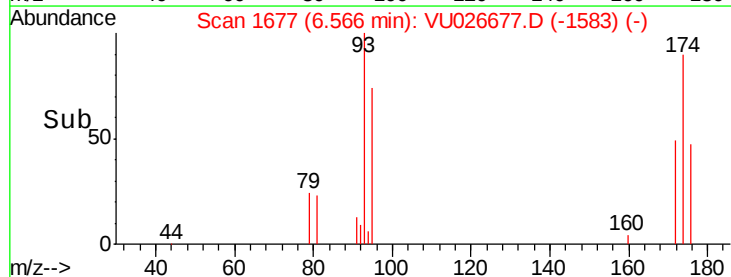
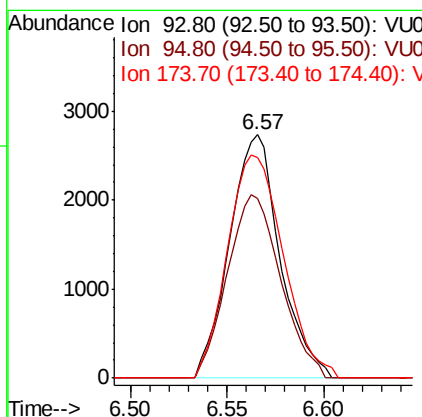
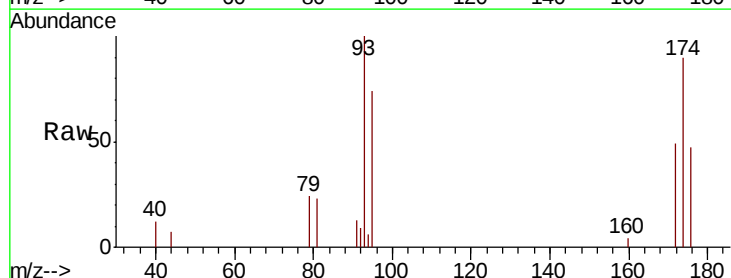
Manual Integrations
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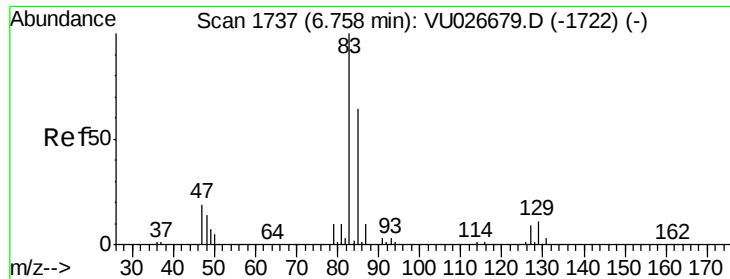
MMDadoda
 9/13/2018 4:48:53 PM



#46
 Dibromomethane
 Concen: 5.41 ug/l
 RT: 6.57 min Scan# 1677
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Tgt Ion: 93 Resp: 4966
 Ion Ratio Lower Upper
 93 100
 95 79.5 65.4 98.2
 174 101.3 81.6 122.4





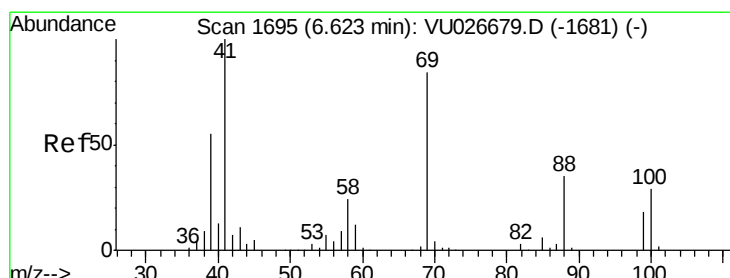
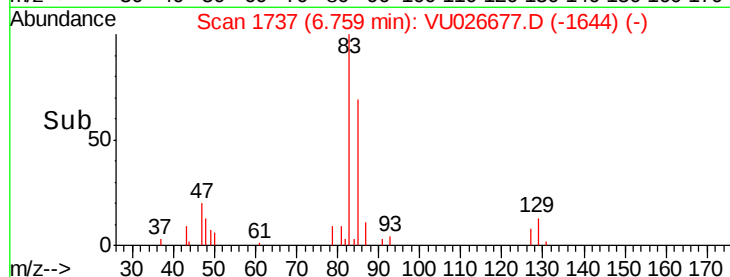
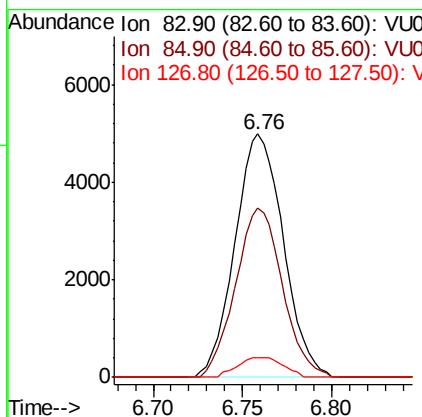
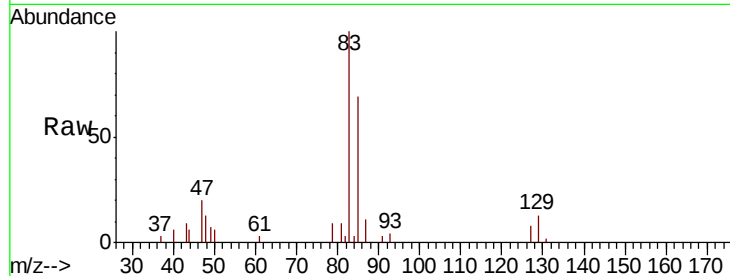
#47
Bromodichloromethane
Concen: 5.22 ug/l
RT: 6.76 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
85	69.4	51.1	76.7
127	8.1	6.9	10.3

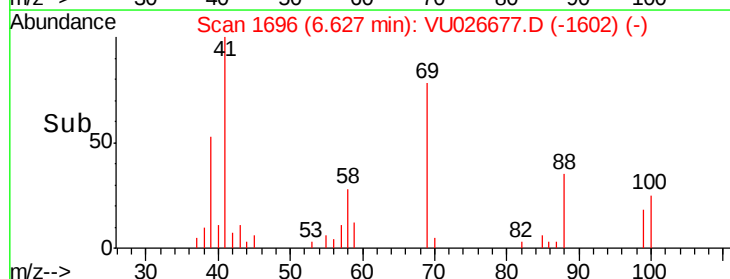
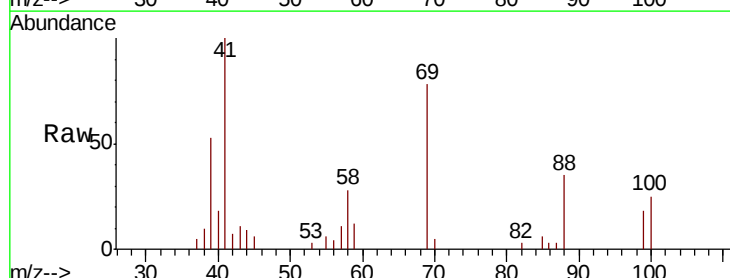
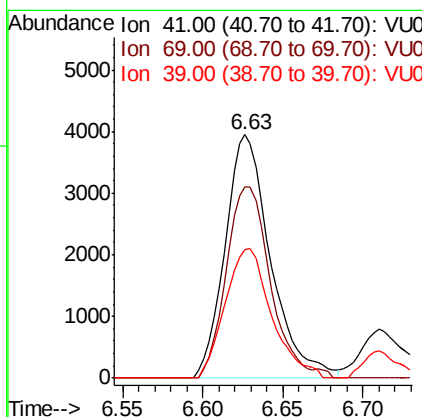
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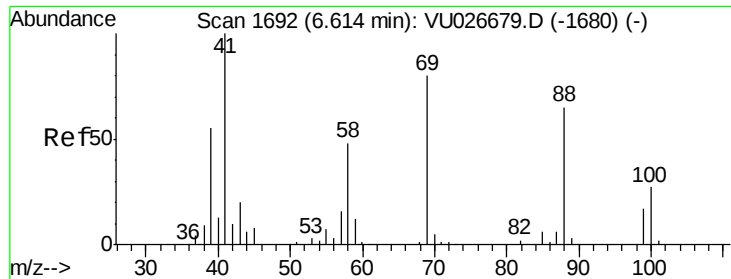
MMDadoda
9/13/2018 4:48:53 PM



#48
Methyl methacrylate
Concen: 5.04 ug/l
RT: 6.63 min Scan# 1696
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
41	100		
69	76.1	66.6	99.8
39	54.1	43.6	65.4





#49

1,4-Dioxane

Concen: 101.40 ug/l

RT: 6.62 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

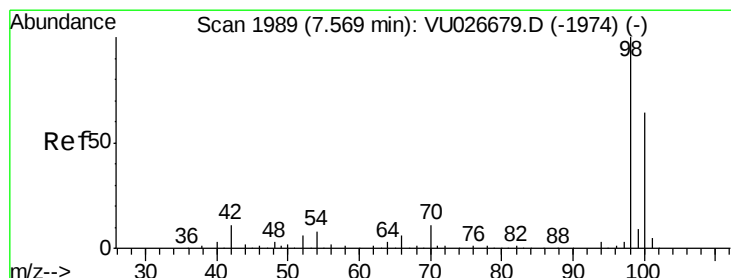
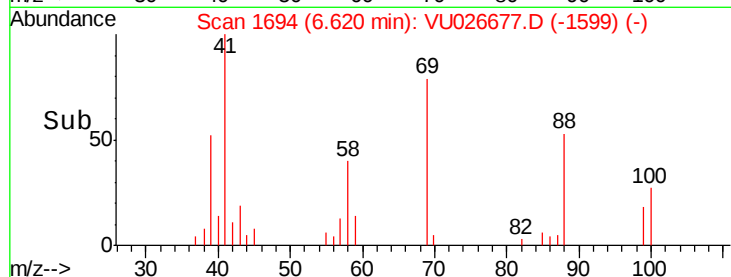
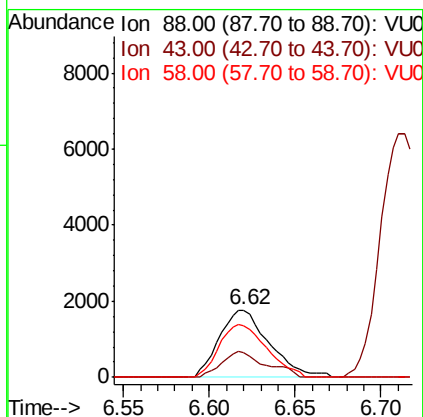
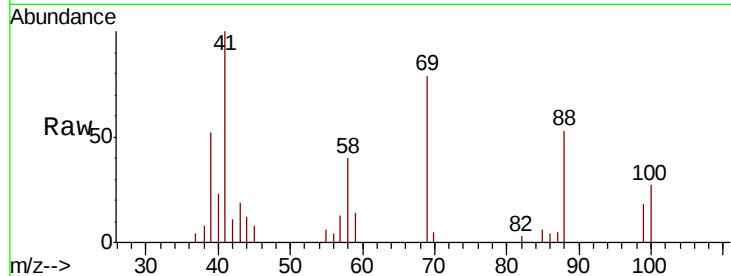
ClientSampleId :

VSTDIC005

Tot Ion:	88	Resp:	3577
Ion	Ratio	Lower	Upper
88	100		
43	34.0	25.5	38.3
58	74.6	58.2	87.4

Manual Integrations
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#50

Toluene-d8

Concen: 5.40 ug/l

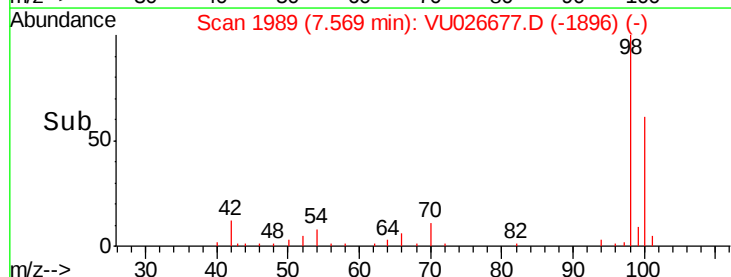
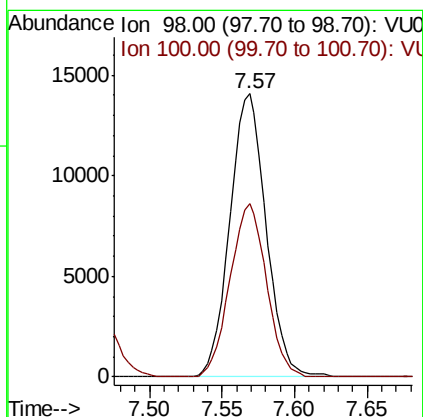
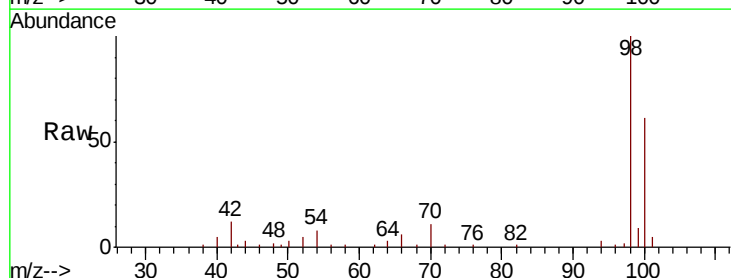
RT: 7.57 min Scan# 1989

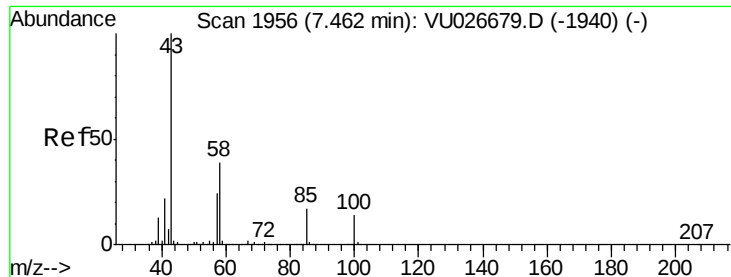
Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Tgt Ion:	98	Resp:	24437
Ion	Ratio	Lower	Upper
98	100		
100	61.2	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 24.87 ug/l

RT: 7.46 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 51307

Ion Ratio Lower Upper

43 100

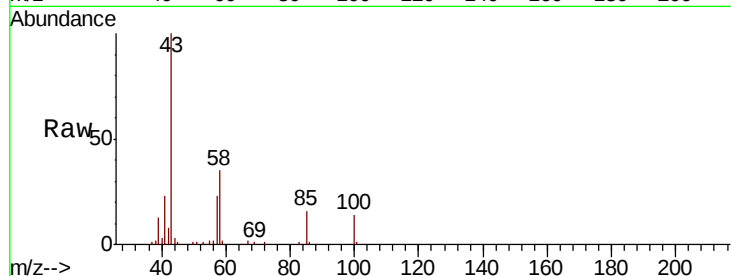
58 36.4 31.1 46.7

Manual Integrations

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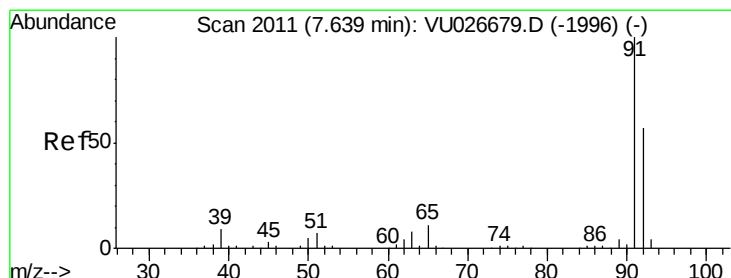
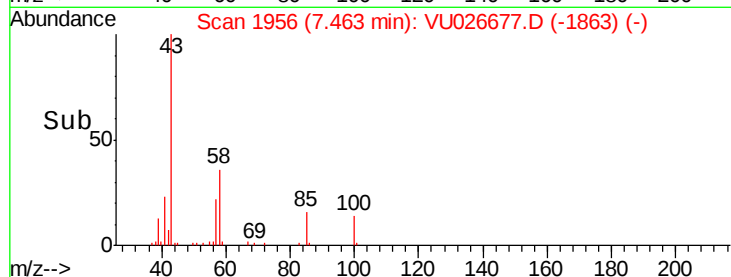
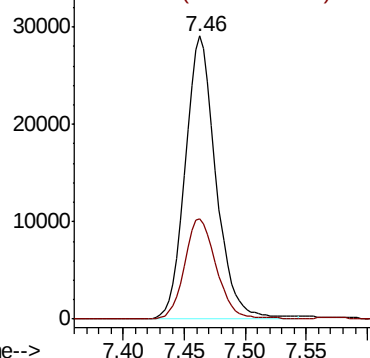
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#52

Toluene

Concen: 5.23 ug/l

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU026677.D

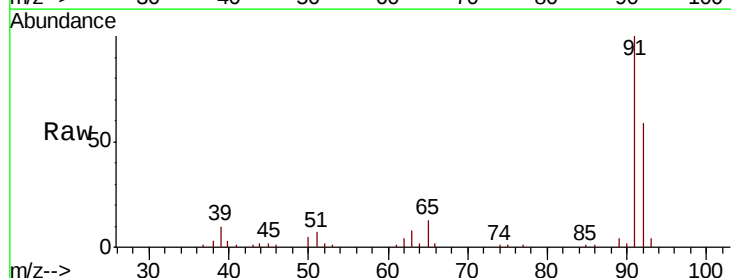
Acq: 11 Sep 2018 10:57

Tgt Ion: 92 Resp: 16285

Ion Ratio Lower Upper

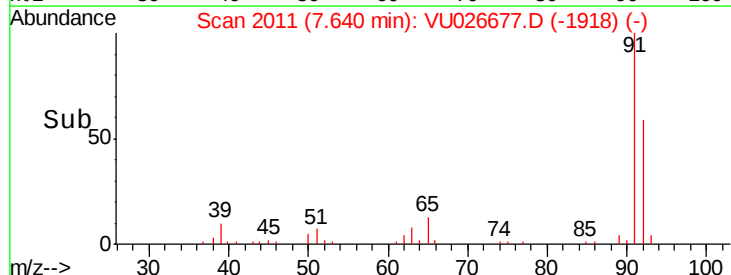
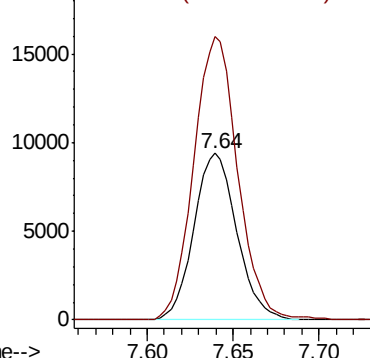
92 100

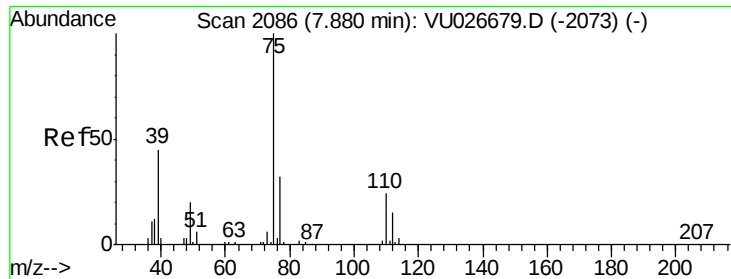
91 175.1 141.1 211.7



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0





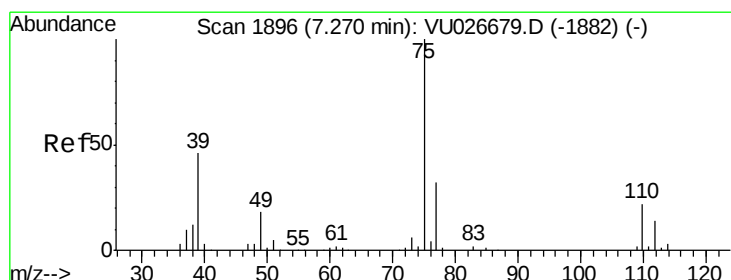
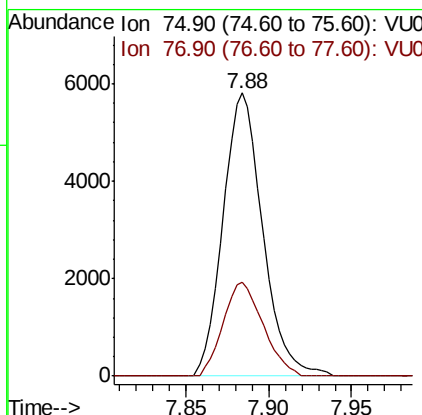
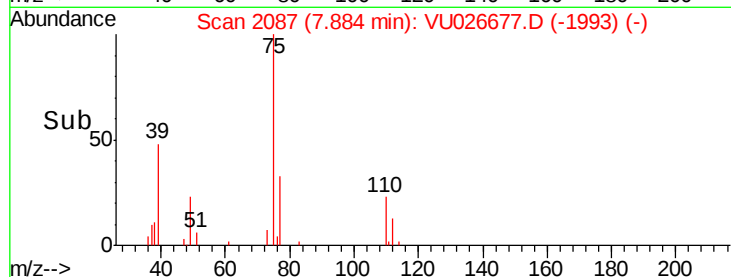
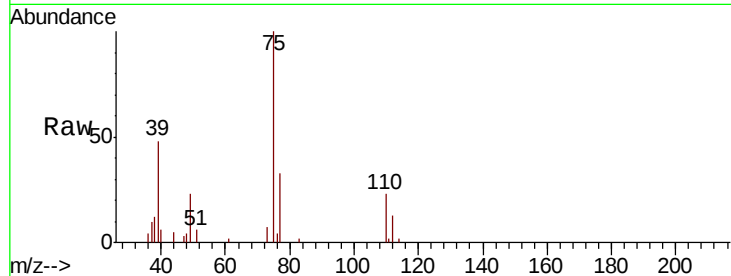
#53
t-1,3-Dichloropropene
Concen: 4.82 ug/l
RT: 7.88 min Scan# 2087
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 75 Resp: 9659
Ion Ratio Lower Upper
75 100
77 33.3 25.2 37.8

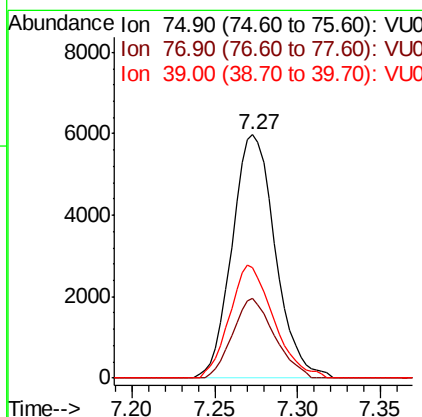
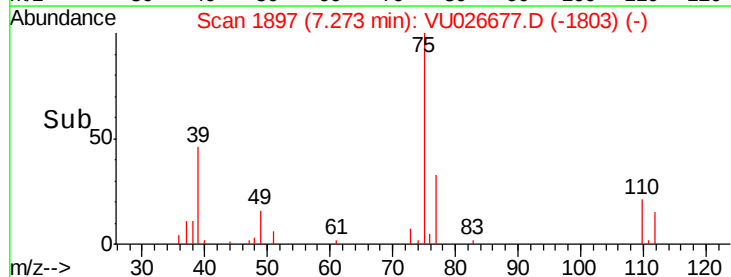
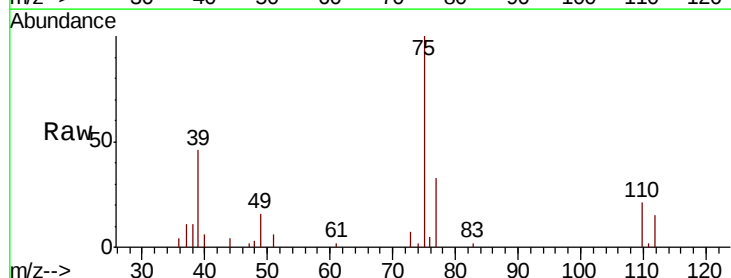
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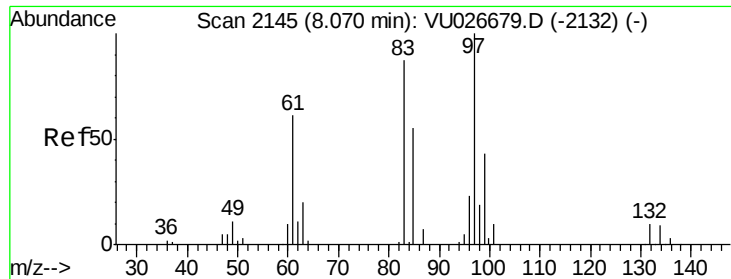
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 5.02 ug/l
RT: 7.27 min Scan# 1897
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion: 75 Resp: 10808
Ion Ratio Lower Upper
75 100
77 32.7 25.5 38.3
39 45.6 37.0 55.6





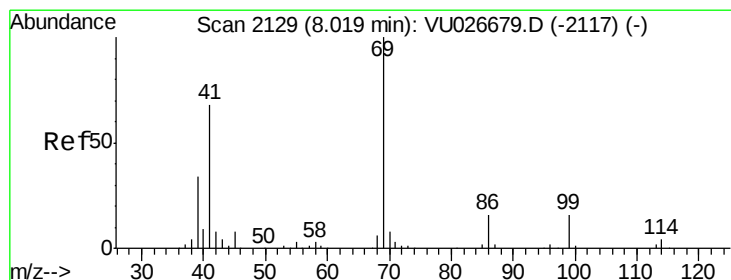
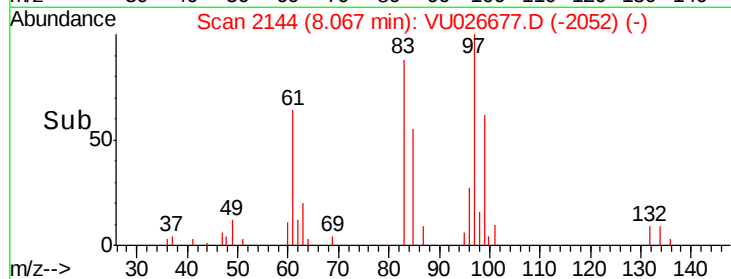
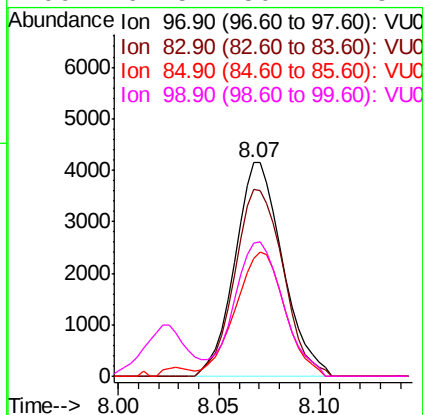
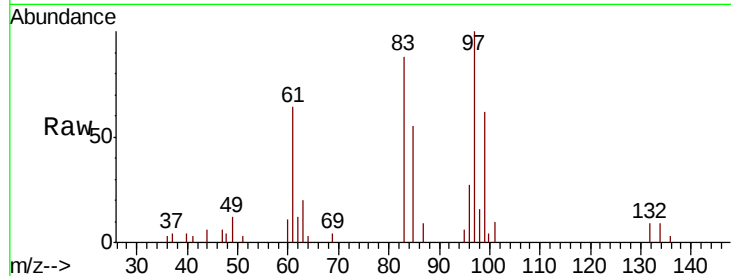
#55
 1,1,2-Trichloroethane
 Concen: 5.16 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:	97	Resp:	6893
Ion	Ratio	Lower	Upper
97	100		
83	87.5	69.3	103.9
85	54.9	45.9	68.9
99	62.5	50.1	75.1

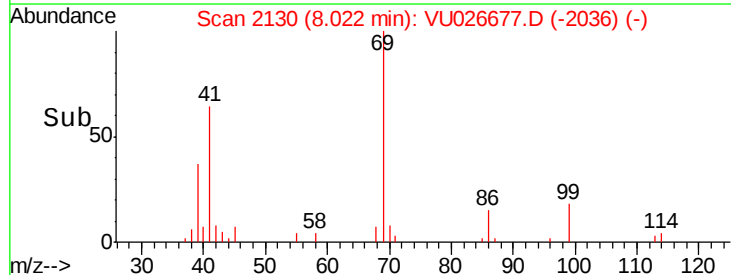
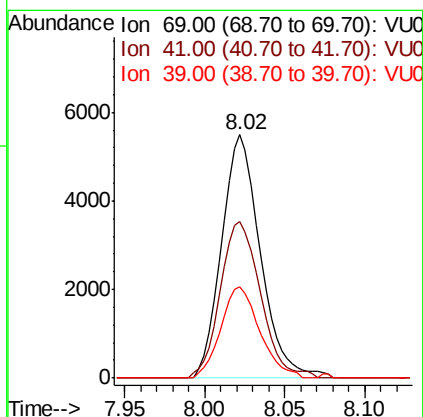
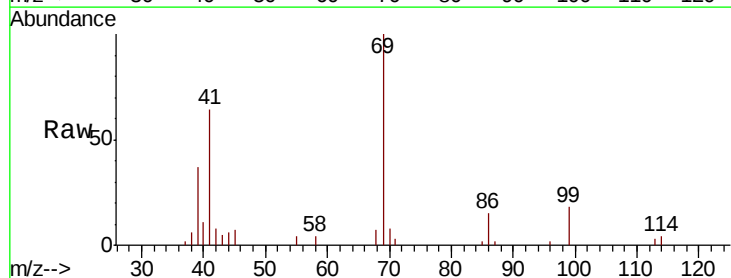
Manual Integrations
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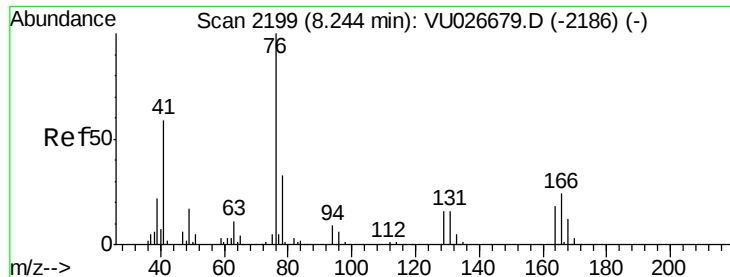
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 4.66 ug/l
 RT: 8.02 min Scan# 2130
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Tgt Ion:	69	Resp:	9090
Ion	Ratio	Lower	Upper
69	100		
41	67.0	54.2	81.2
39	37.7	28.4	42.6





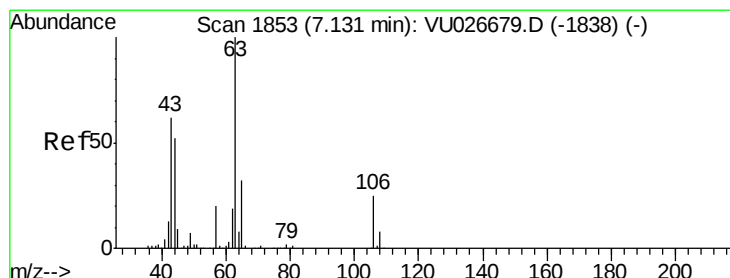
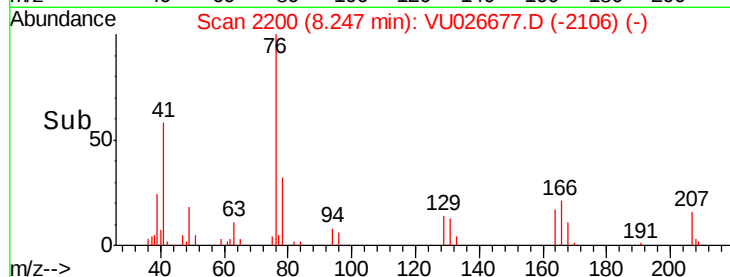
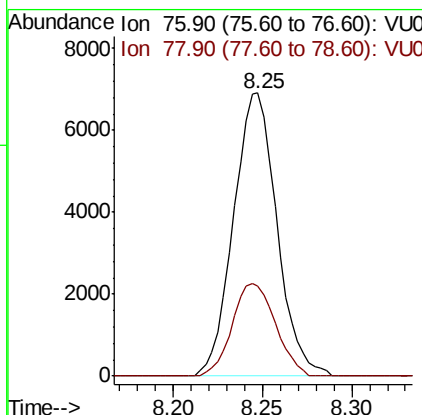
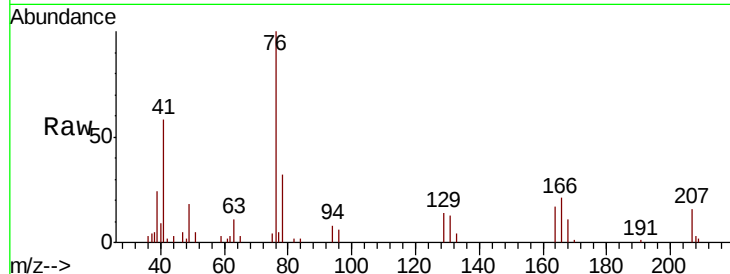
#57
 1,3-Dichloropropane
 Concen: 5.15 ug/l
 RT: 8.25 min Scan# 2200
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion: 76 Resp: 11713
 Ion Ratio Lower Upper
 76 100
 78 32.5 26.0 39.0

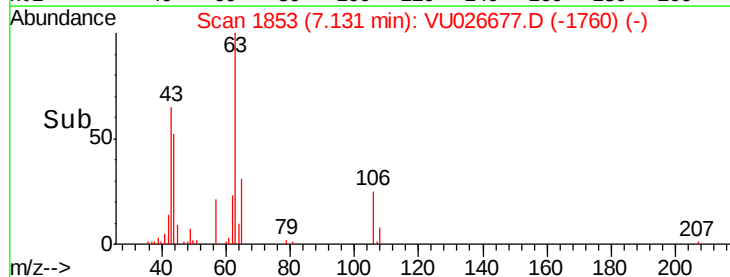
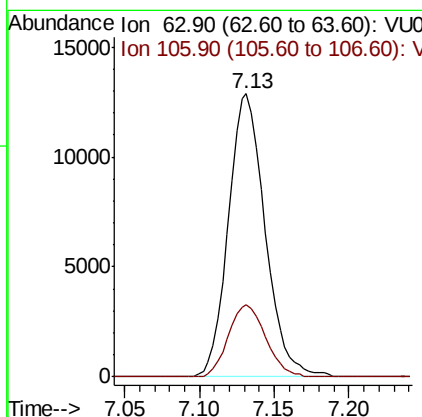
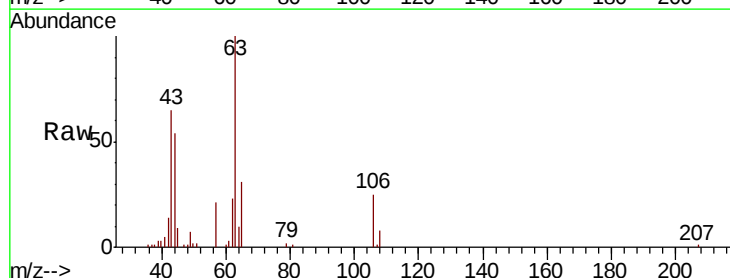
Manual Integrations
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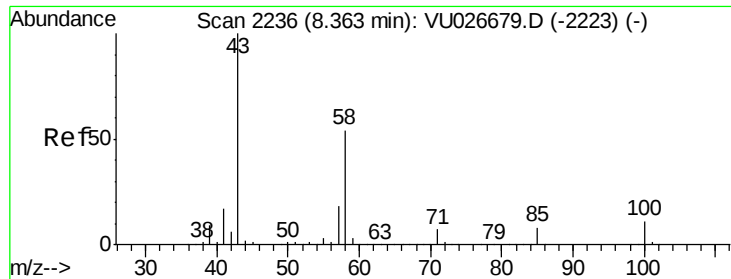
MMDadoda
 9/13/2018 4:48:53 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 22.88 ug/l
 RT: 7.13 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Tgt Ion: 63 Resp: 21983
 Ion Ratio Lower Upper
 63 100
 106 25.8 20.5 30.7





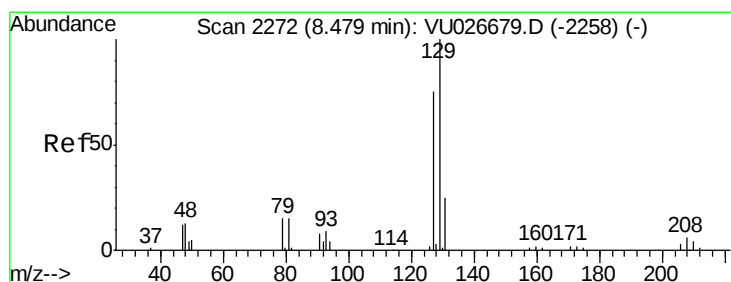
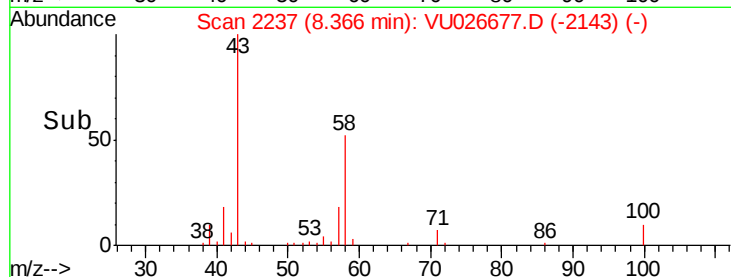
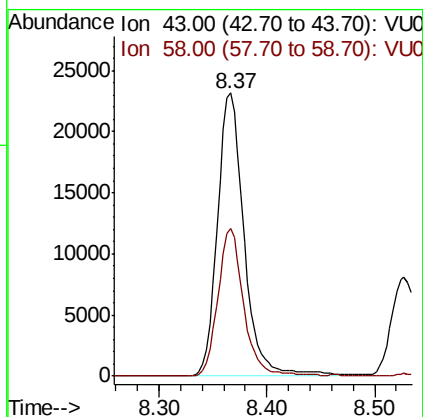
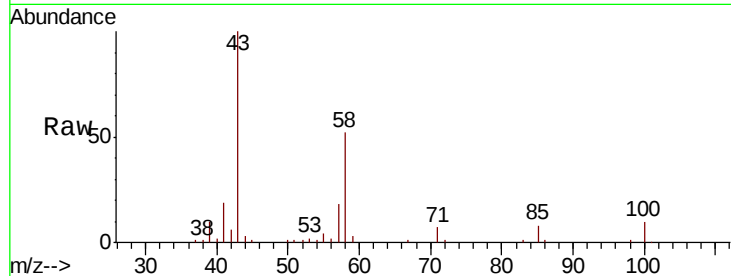
#59
2-Hexanone
Concen: 24.47 ug/l
RT: 8.37 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 39726
Ion Ratio Lower Upper
43 100
58 50.2 26.9 80.7

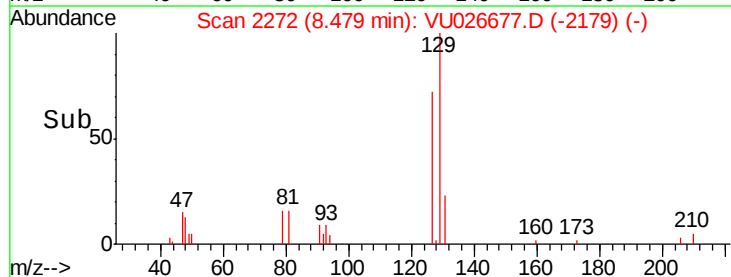
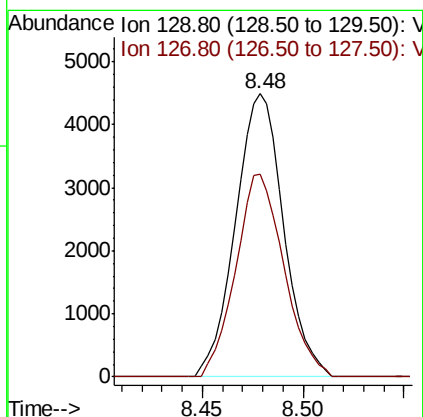
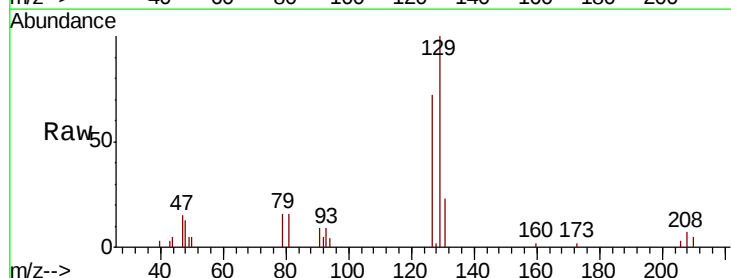
Manual Integrations
APPROVED

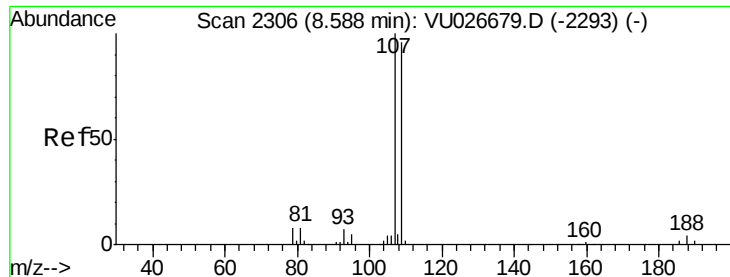
MMDadoda
9/13/2018 4:48:53 PM



#60
Dibromochloromethane
Concen: 5.18 ug/l
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion: 129 Resp: 7494
Ion Ratio Lower Upper
129 100
127 71.8 38.3 114.9





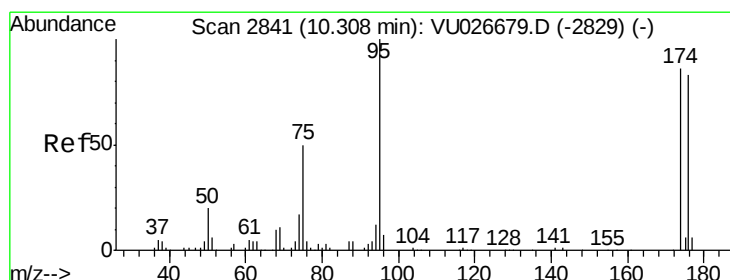
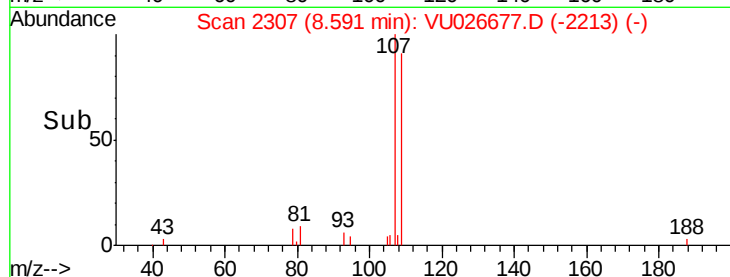
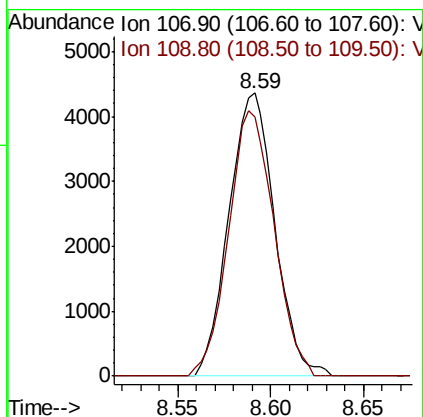
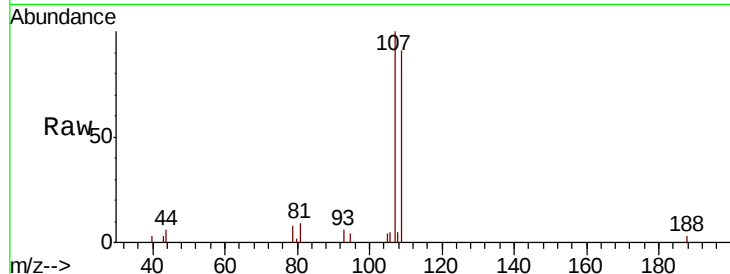
#61
 1,2-Dibromoethane
 Concen: 5.17 ug/l
 RT: 8.59 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion:107 Resp: 7485
 Ion Ratio Lower Upper
 107 100
 109 92.9 75.7 113.5

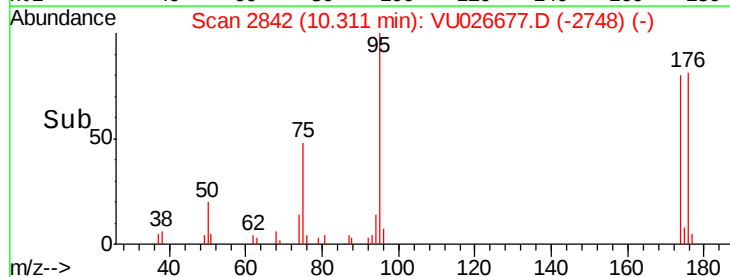
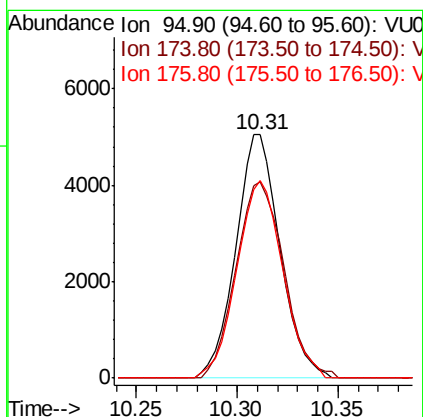
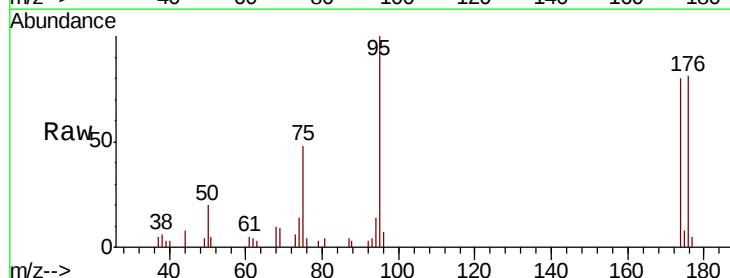
Manual Integrations
 APPROVED

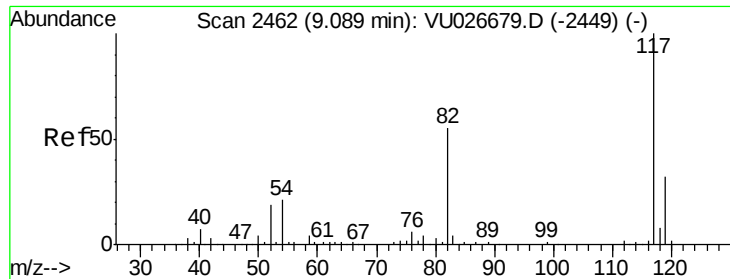
MMDadoda
 9/13/2018 4:48:53 PM



#62
 4-Bromofluorobenzene
 Concen: 4.72 ug/l
 RT: 10.31 min Scan# 2842
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Tgt Ion: 95 Resp: 7750
 Ion Ratio Lower Upper
 95 100
 174 87.4 0.0 172.8
 176 84.4 0.0 168.6





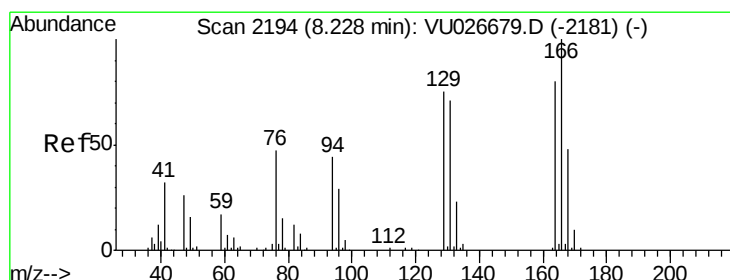
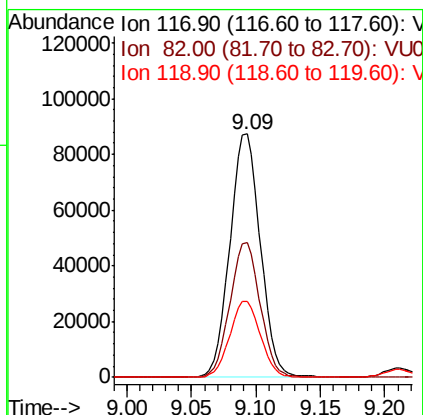
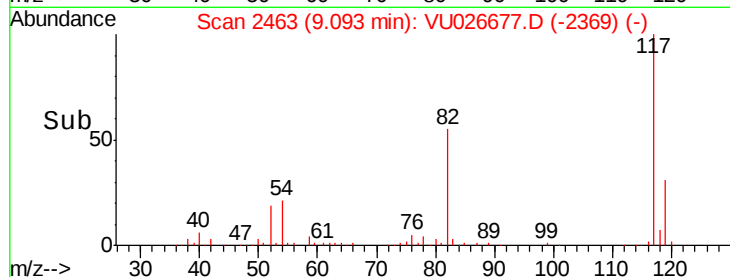
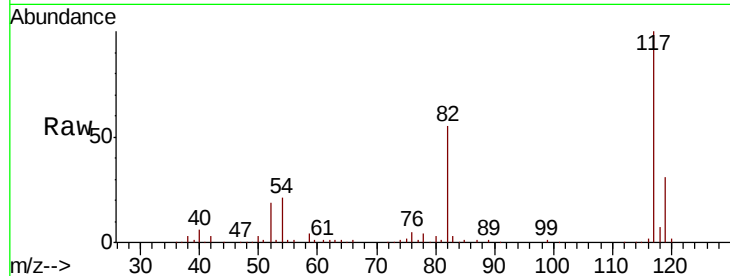
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.2	44.1	66.1
119	31.3	25.7	38.5

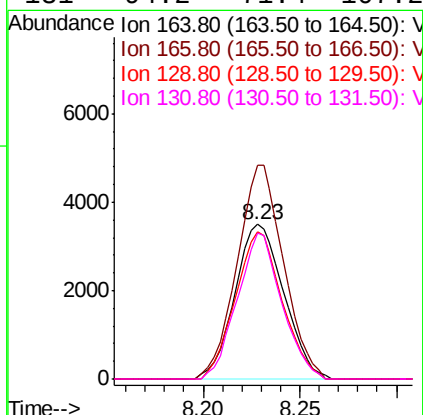
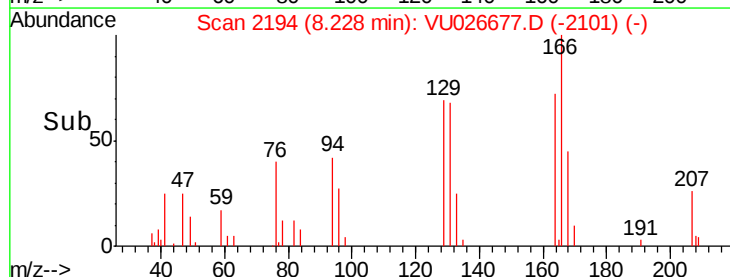
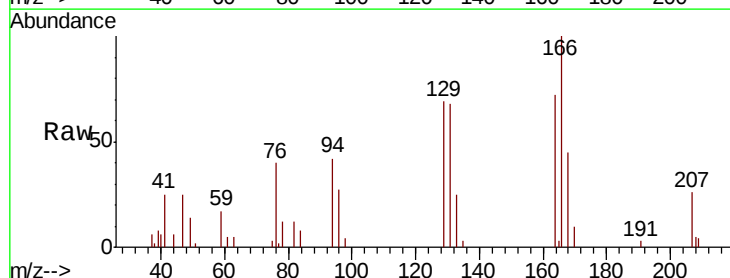
Manual Integrations
APPROVED

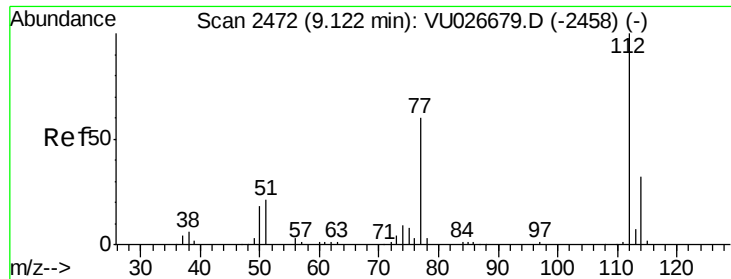
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#64
Tetrachloroethene
Concen: 5.37 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	138.0	100.5	150.7
129	95.0	75.3	112.9
131	94.2	71.4	107.2





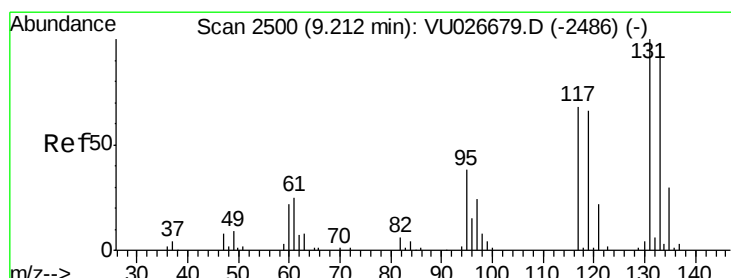
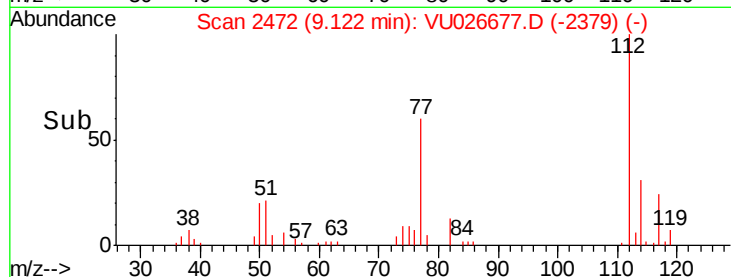
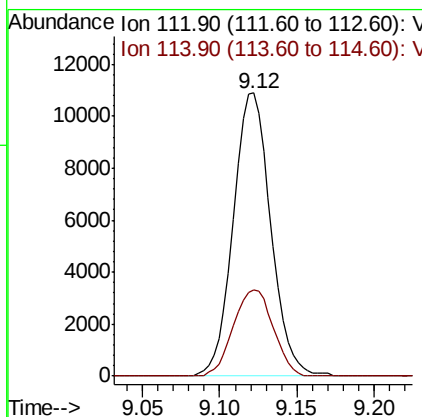
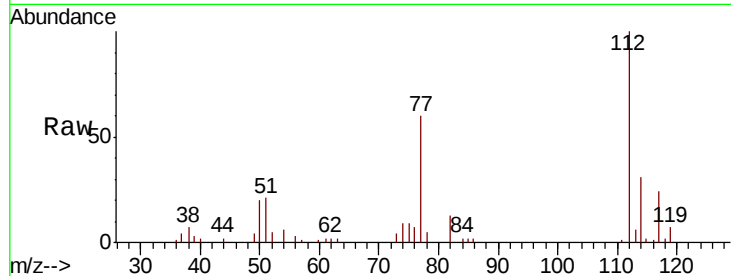
#65
Chlorobenzene
Concen: 5.14 ug/l
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 18320
Ion Ratio Lower Upper
112 100
114 30.6 25.5 38.3

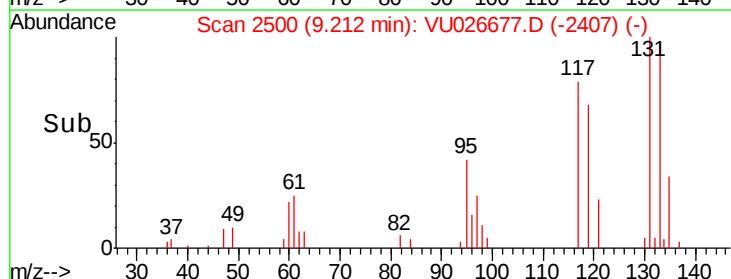
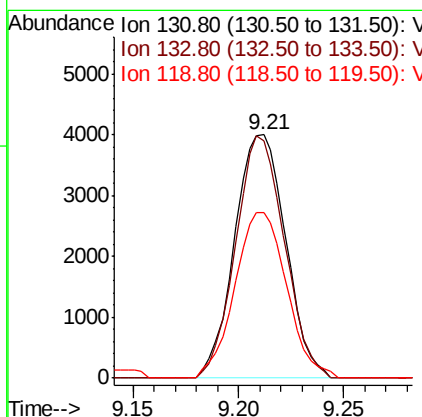
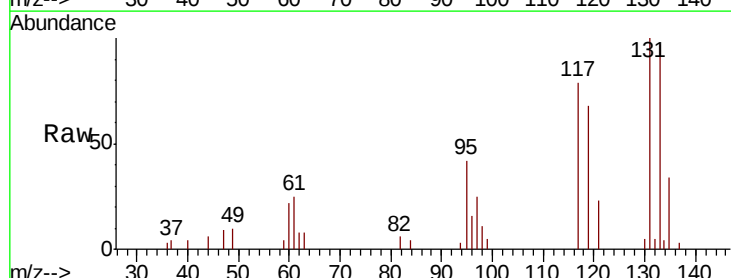
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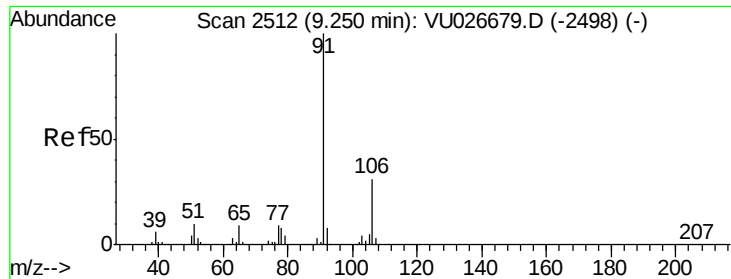
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 5.14 ug/l
RT: 9.21 min Scan# 2500
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion:131 Resp: 6742
Ion Ratio Lower Upper
131 100
133 95.0 48.9 146.6
119 68.8 32.7 98.1





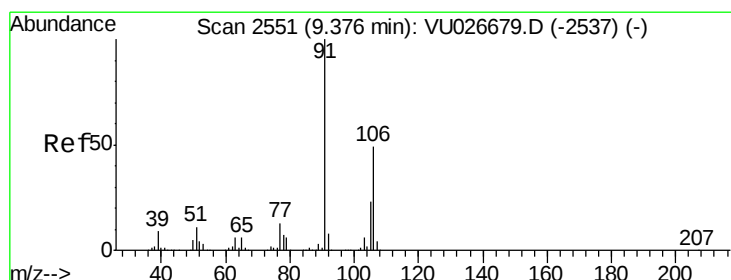
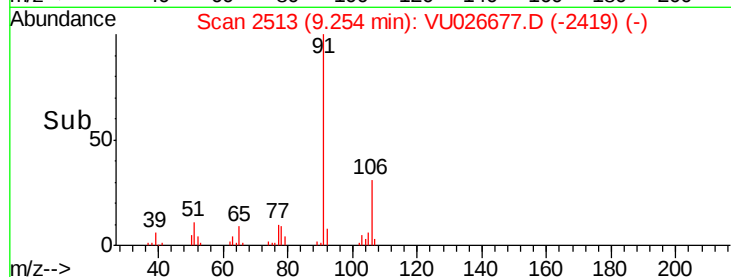
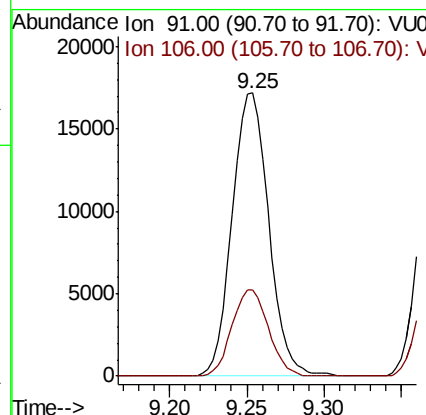
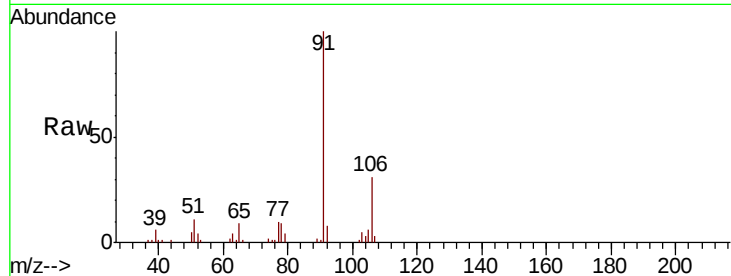
#67
Ethyl Benzene
Concen: 4.80 ug/l
RT: 9.25 min Scan# 2513
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
91	100	28191		
106	30.6	25.0	37.4	

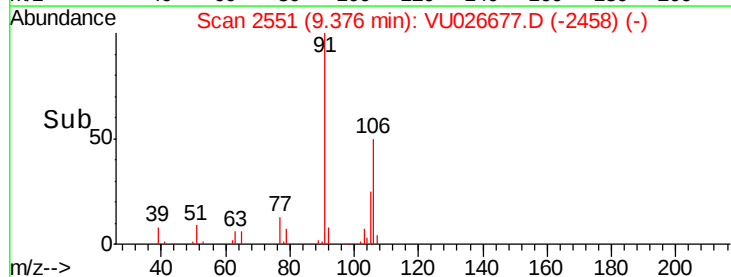
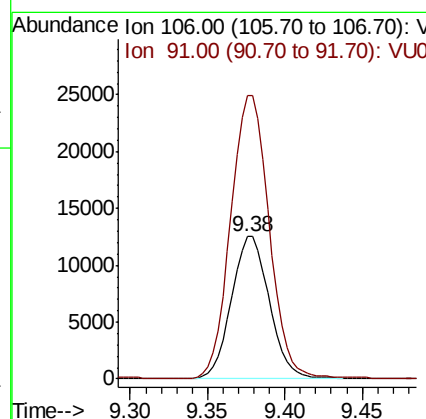
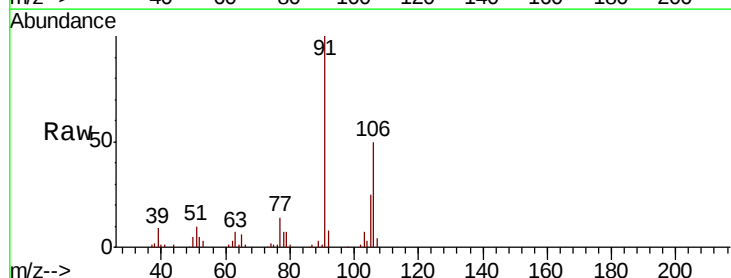
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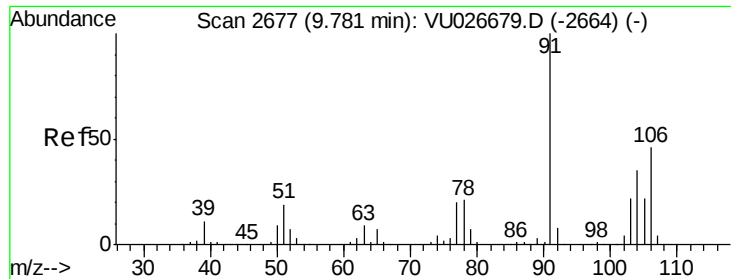
MMDadoda
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#68
m/p-Xylenes
Concen: 9.53 ug/l
RT: 9.38 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Resp	Lower	Upper
106	100	21299		
91	202.6	162.1	243.1	





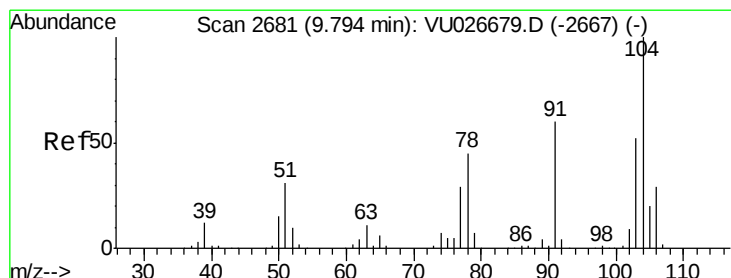
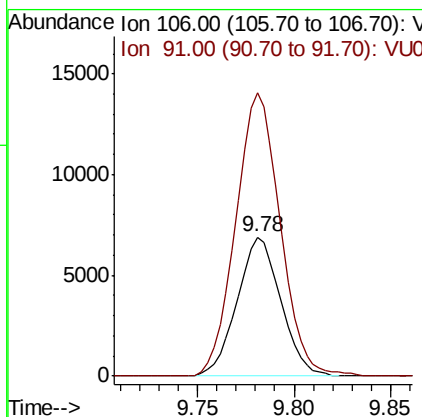
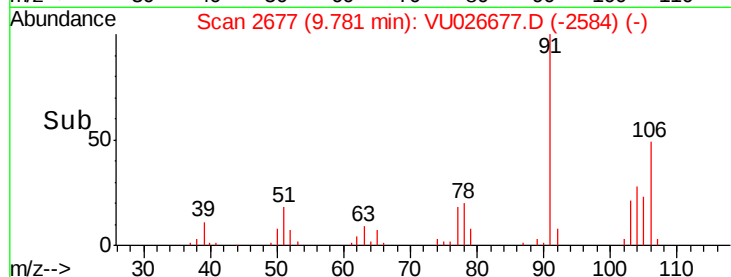
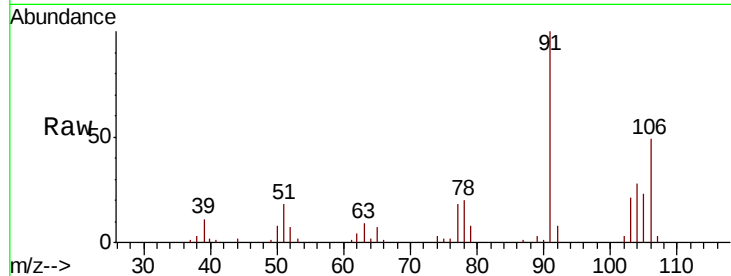
#69
o-Xylene
Concen: 4.95 ug/l
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 10773
Ion Ratio Lower Upper
106 100
91 208.6 106.9 320.8

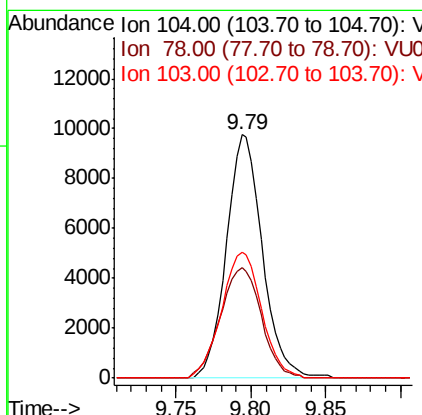
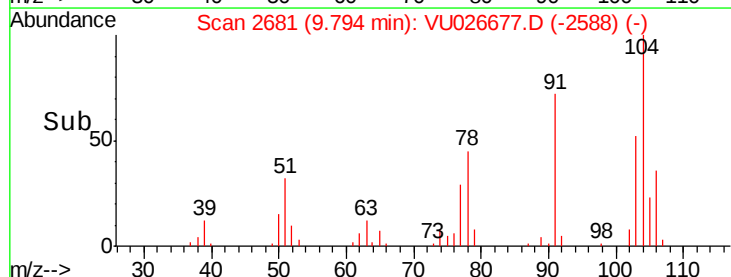
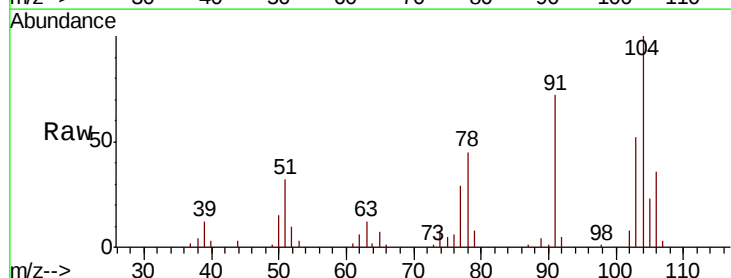
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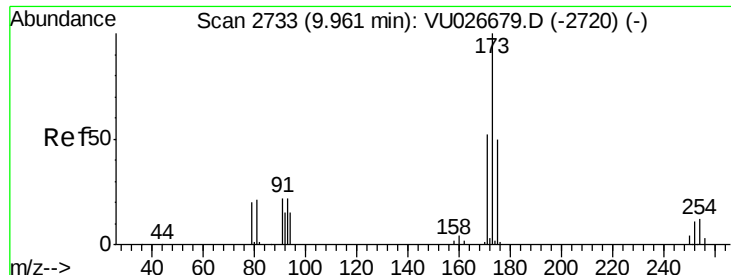
MMDadoda
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#70
Styrene
Concen: 4.59 ug/l
RT: 9.79 min Scan# 2681
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion:104 Resp: 16355
Ion Ratio Lower Upper
104 100
78 51.6 39.4 59.2
103 57.2 44.5 66.7





#71

Bromoform

Concen: 4.78 ug/l

RT: 9.96 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

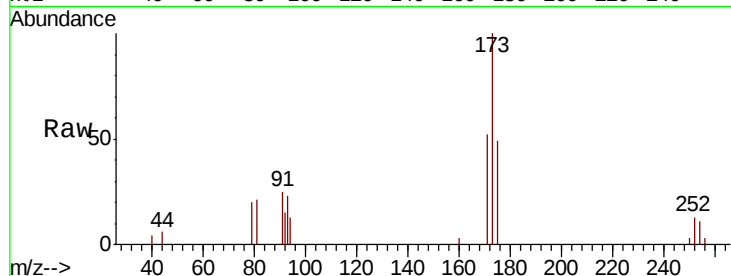
ClientSampleId :

VSTDIC005

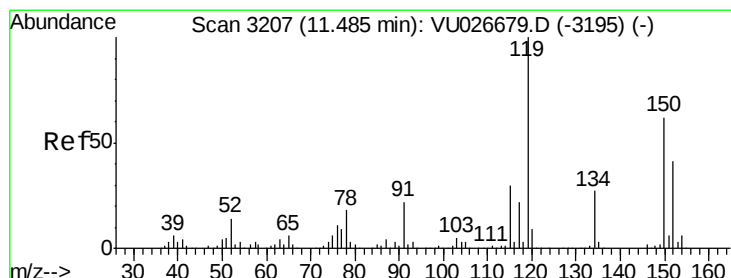
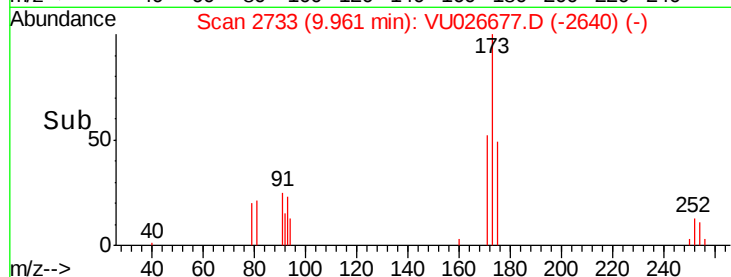
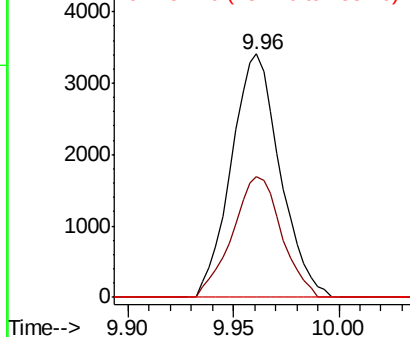
Tot Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.7	74.1
254	0.0	0.0	0.0

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

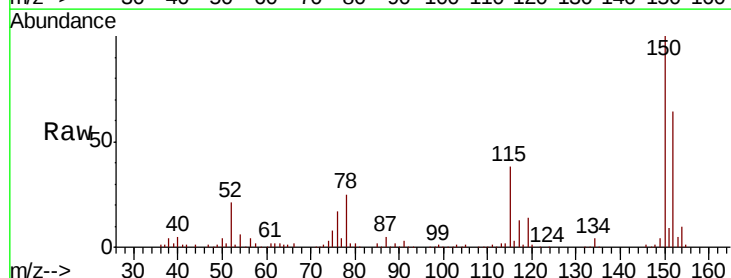
RT: 11.49 min Scan# 3207

Delta R.T. 0.00 min

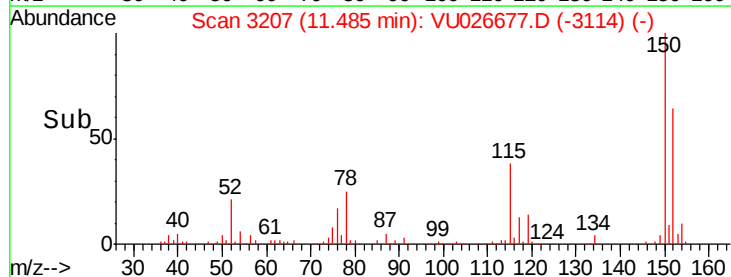
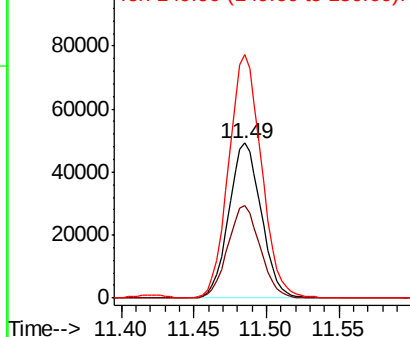
Lab File: VU026677.D

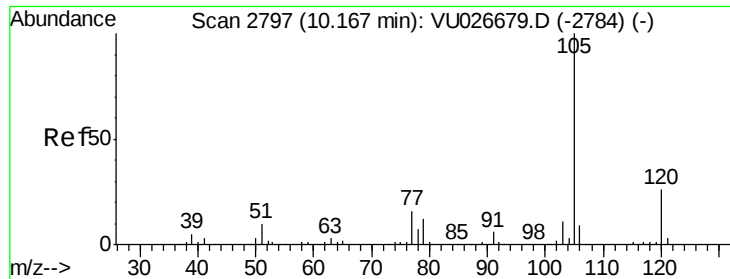
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.7	40.4	121.1
150	159.3	0.0	345.2



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: 5.22 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 27066

Ion Ratio Lower Upper

105 100

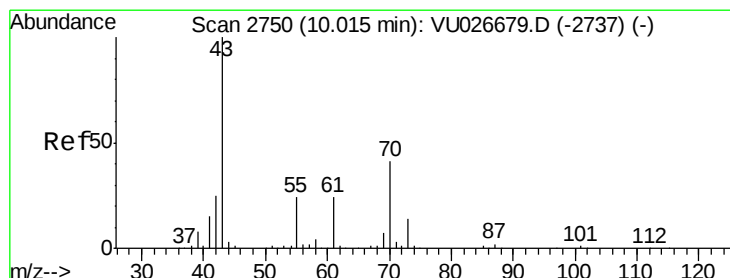
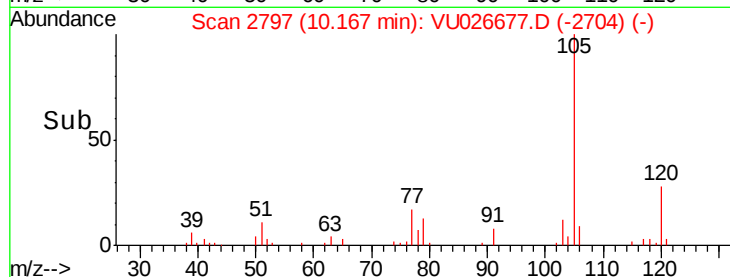
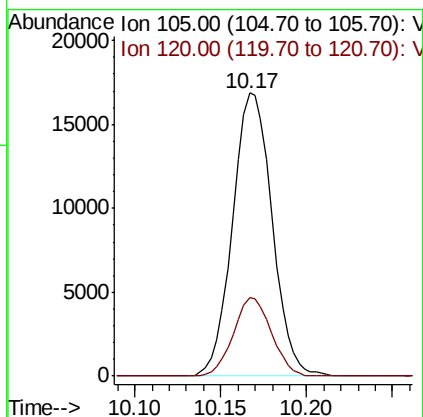
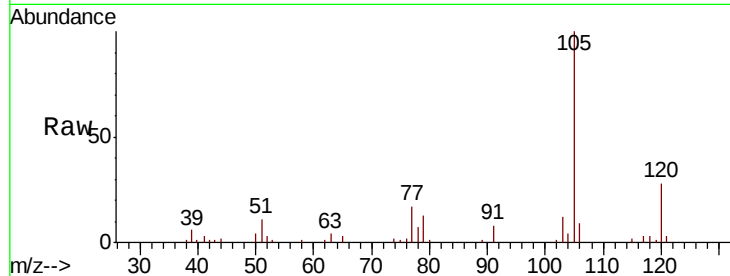
120 26.5 13.3 39.9

Manual Integrations

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#74

N-ethyl acetate

Concen: 4.95 ug/l

RT: 10.02 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Tgt Ion: 43 Resp: 12106

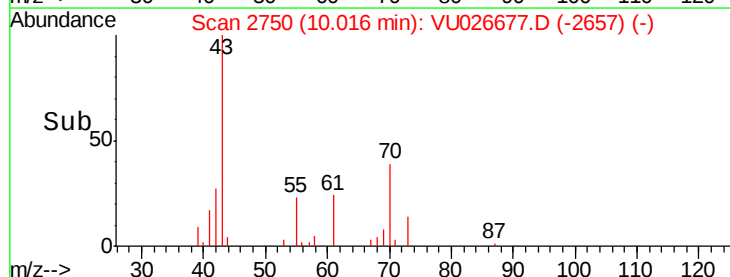
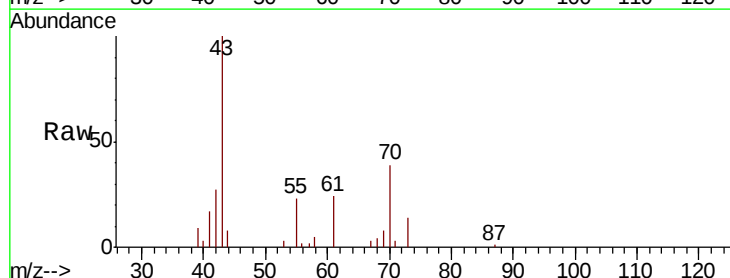
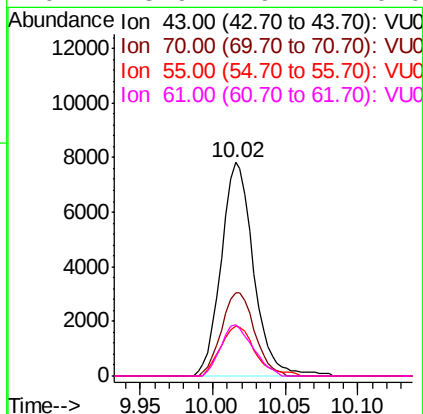
Ion Ratio Lower Upper

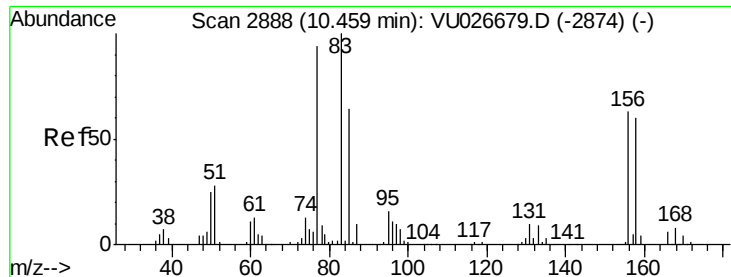
43 100

70 39.6 32.6 48.8

55 24.9 19.1 28.7

61 23.9 19.4 29.0





#75

1,1,2,2-Tetrachloroethane

Concen: 5.46 ug/l

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

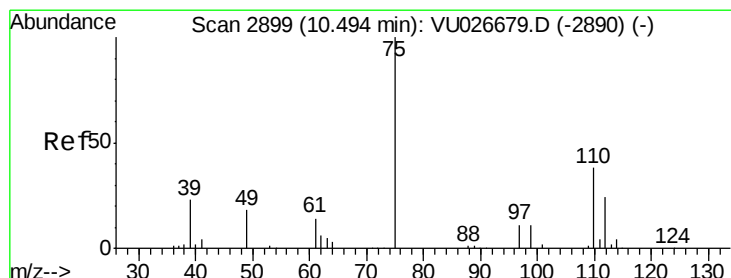
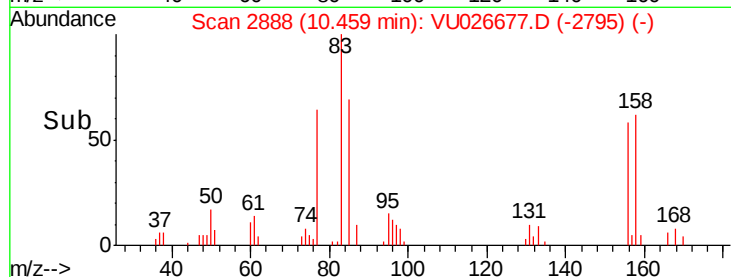
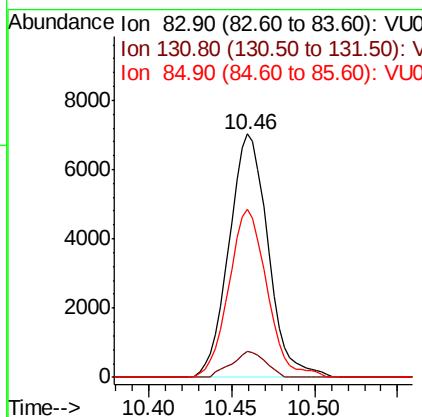
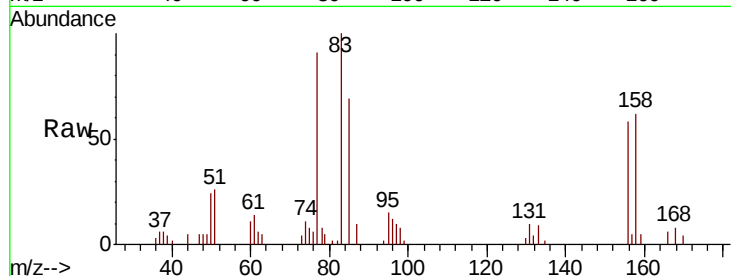
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	11523
Ion Ratio	Lower	Upper	
83	100		
131	9.2	4.9	14.6
85	67.5	32.3	96.9

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#76

1,2,3-Trichloropropane

Concen: 5.17 ug/l m

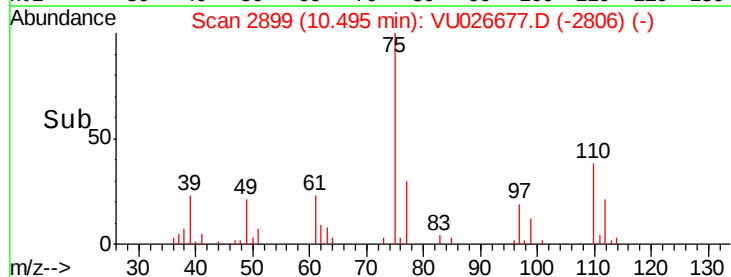
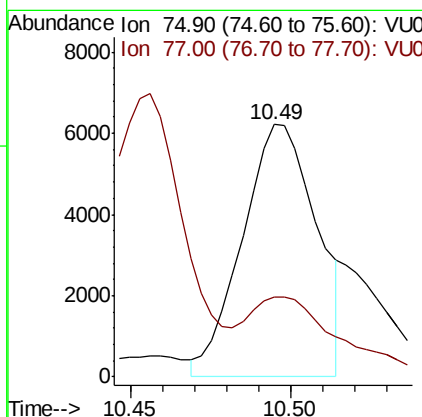
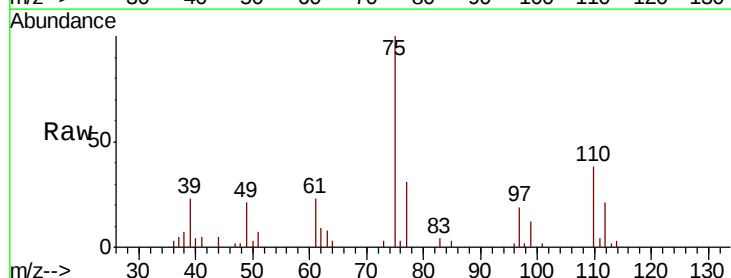
RT: 10.49 min Scan# 2899

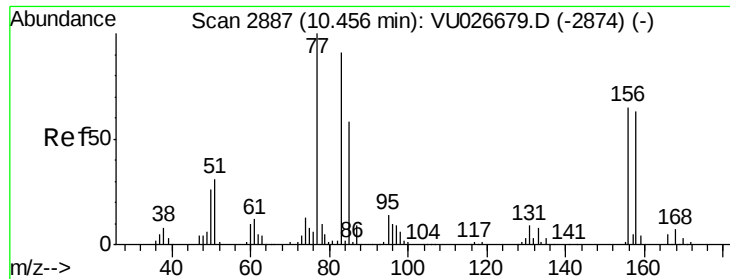
Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Tgt Ion:	75	Resp:	10008
Ion Ratio	Lower	Upper	
75	100		
77	39.6	21.1	63.1





#77

Bromobenzene

Concen: 5.08 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 7158

Ion Ratio Lower Upper

156 100

77 166.6 77.6 232.9

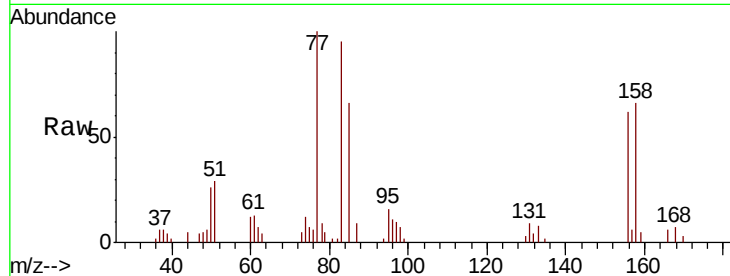
158 102.8 48.9 146.6

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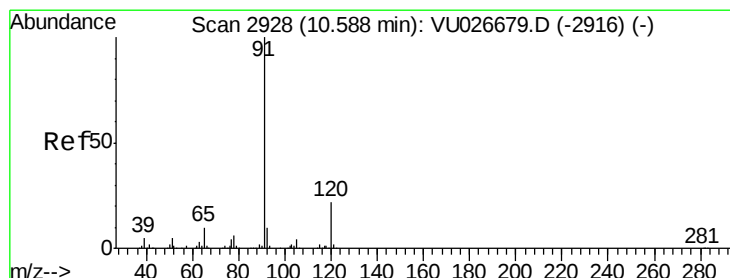
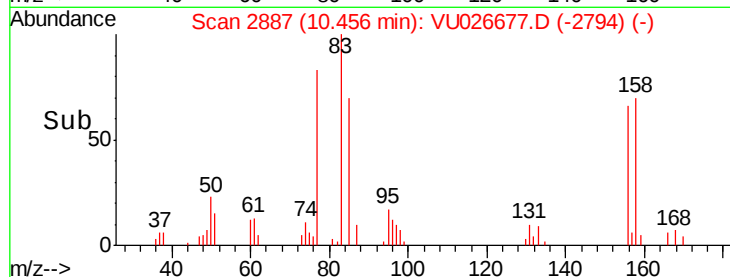
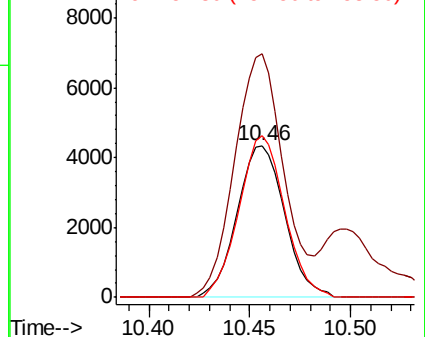
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VU0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.98 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU026677.D

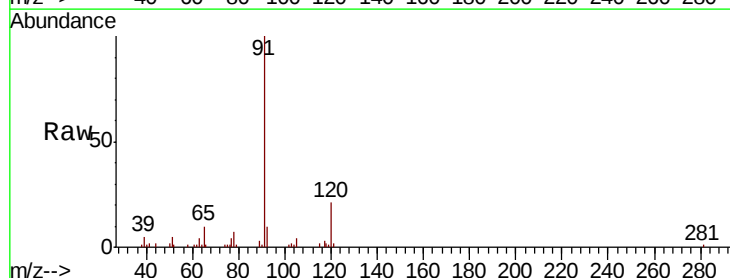
Acq: 11 Sep 2018 10:57

Tgt Ion: 91 Resp: 30023

Ion Ratio Lower Upper

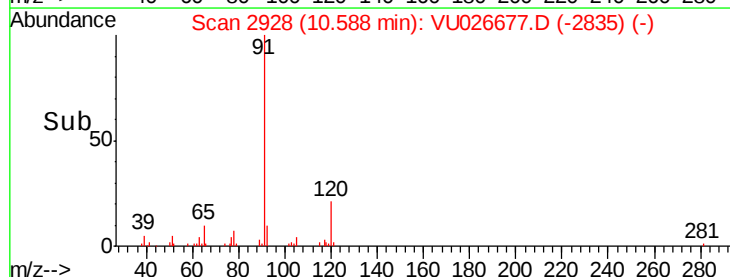
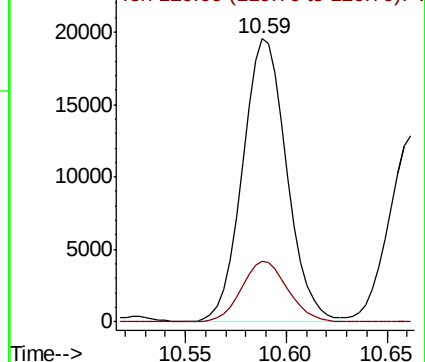
91 100

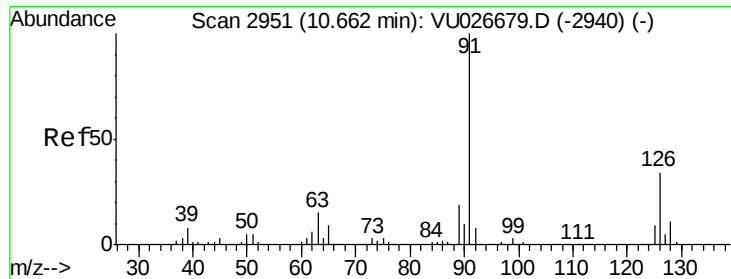
120 22.2 11.4 34.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.48 ug/l

RT: 10.66 min Scan# 2951

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 20461

Ion Ratio Lower Upper

91 100

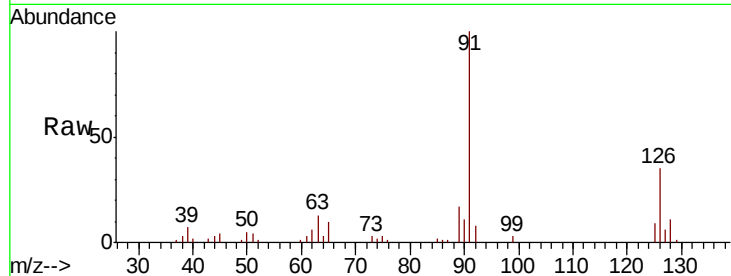
126 33.4 17.3 51.7

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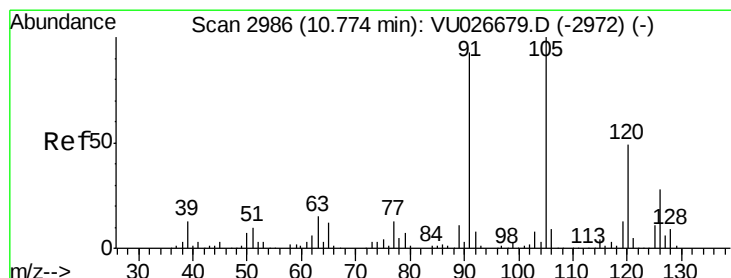
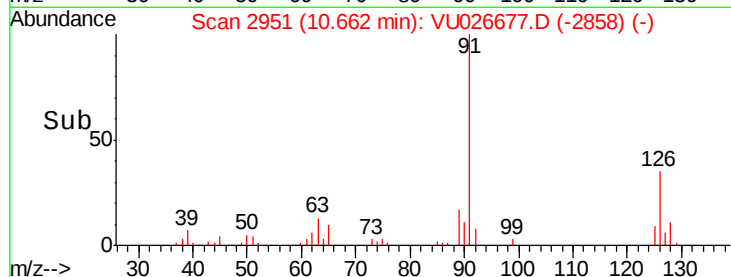
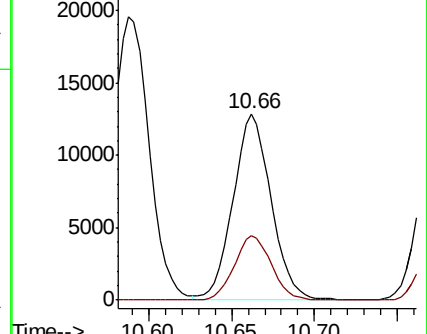
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Abundance Ion 91.00 (90.70 to 91.70): VU026677.D (-2940) (-)

Ion 125.90 (125.60 to 126.60): VU026677.D (-2940) (-)



#80

1,3,5-Trimethylbenzene

Concen: 4.99 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU026677.D

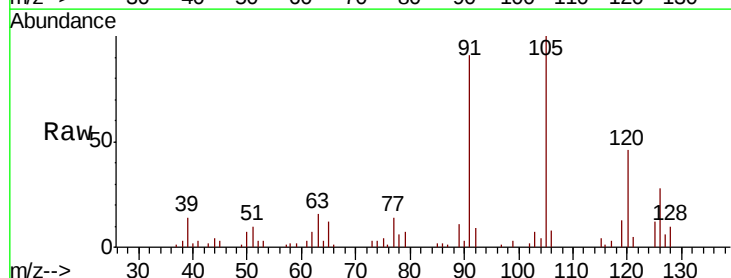
Acq: 11 Sep 2018 10:57

Tgt Ion:105 Resp: 21750

Ion Ratio Lower Upper

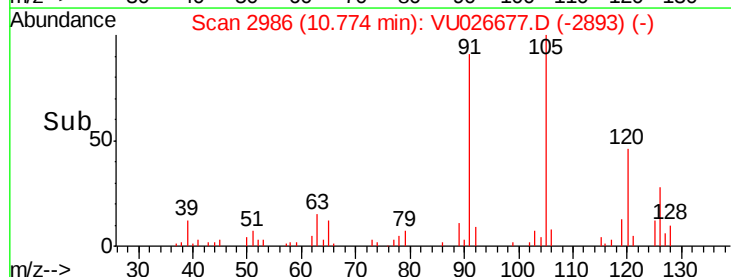
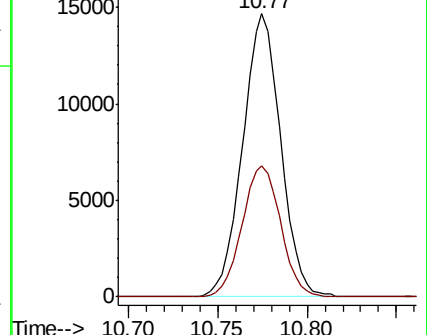
105 100

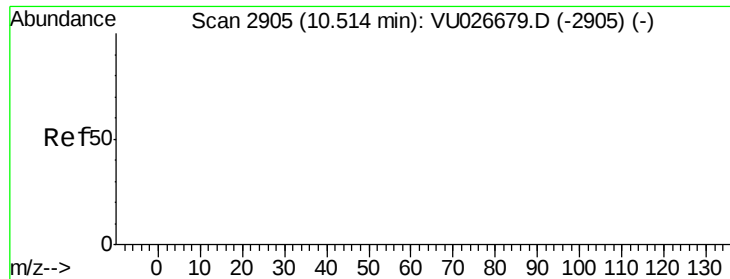
120 47.0 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VU026677.D (-2893) (-)

Ion 120.00 (119.70 to 120.70): VU026677.D (-2893) (-)





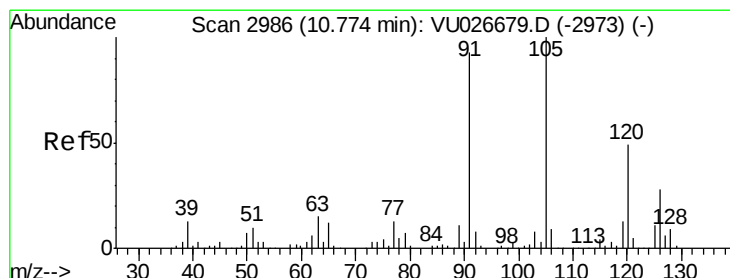
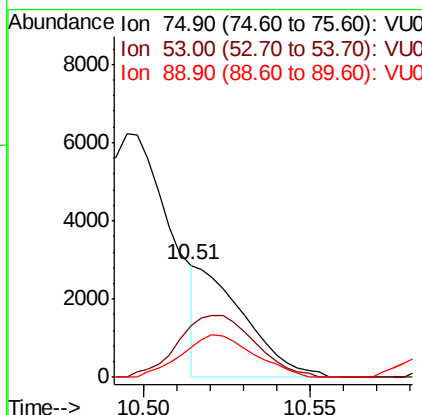
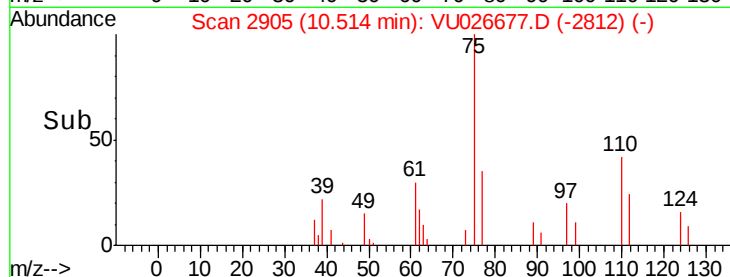
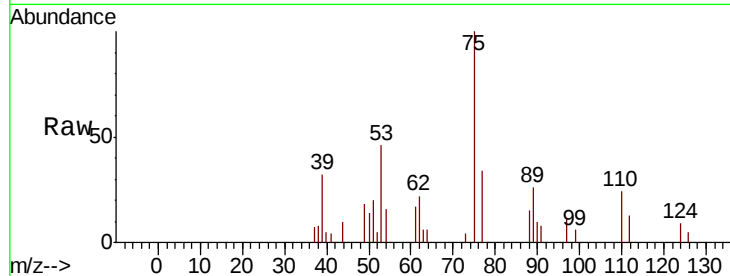
#81
trans-1,4-Dichloro-2-butene
Concen: 3.29 ug/l m
RT: 10.51 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

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

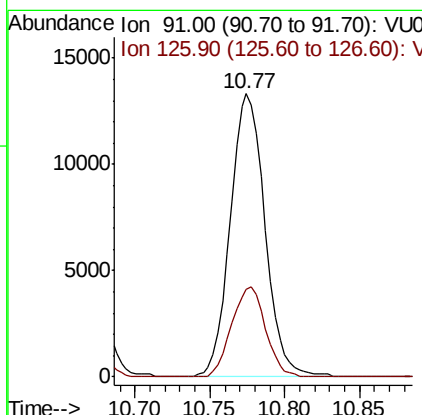
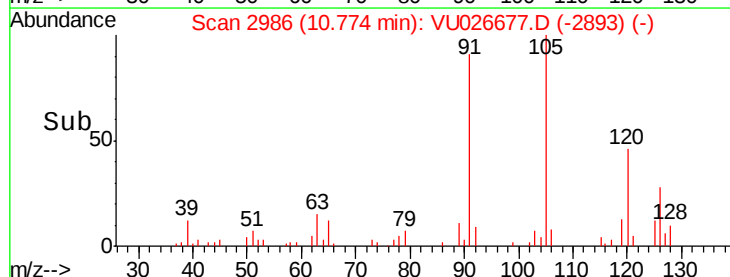
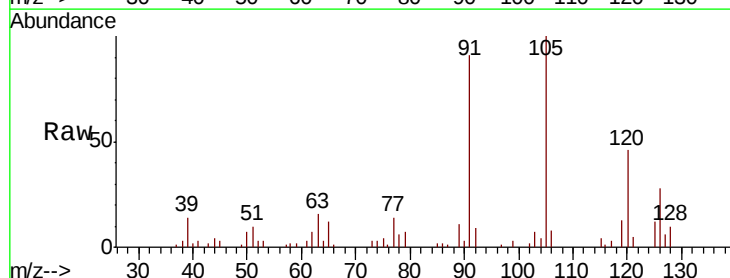
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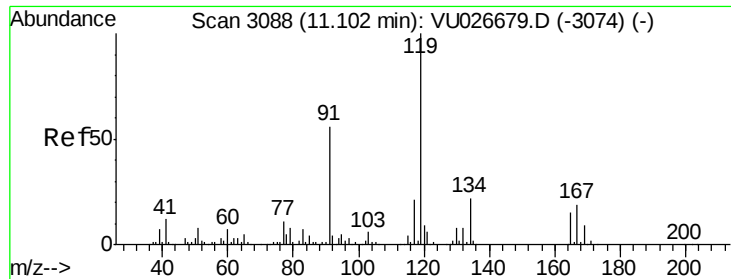
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#82
4-Chlorotoluene
Concen: 5.12 ug/l
RT: 10.77 min Scan# 2986
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.2	45.5





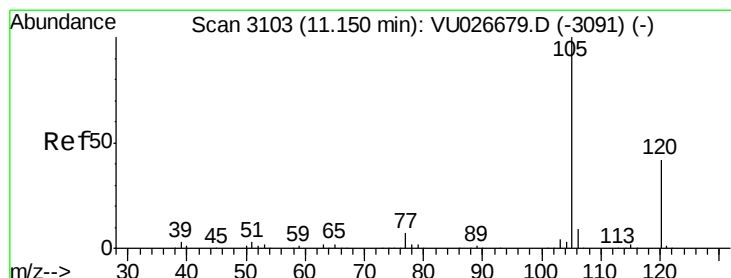
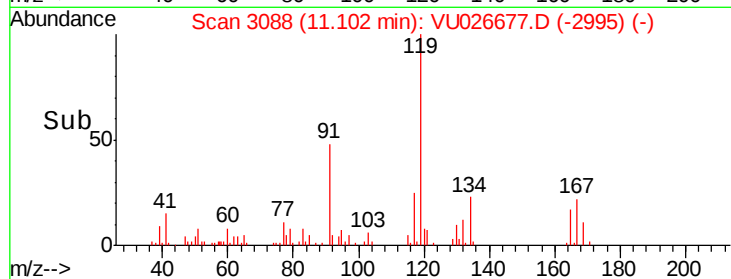
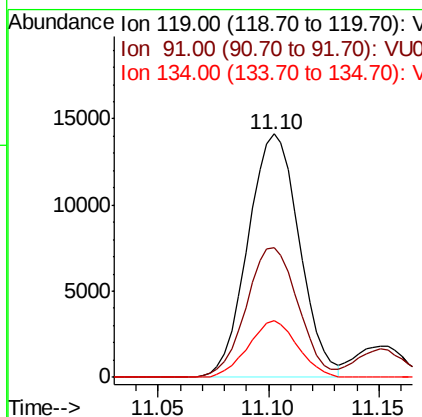
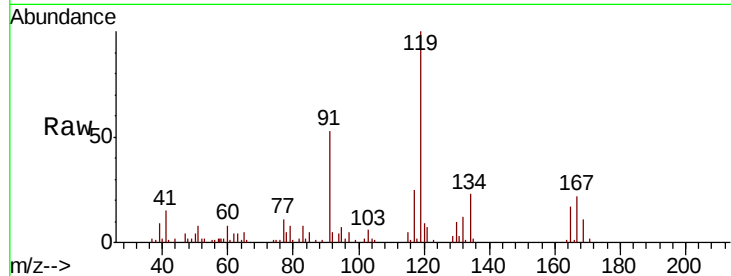
#83
tert-Butylbenzene
Concen: 5.18 ug/l
RT: 11.10 min Scan# 3088
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
119	100	22902		
91	53.7	28.3	85.0	
134	22.3	11.2	33.5	

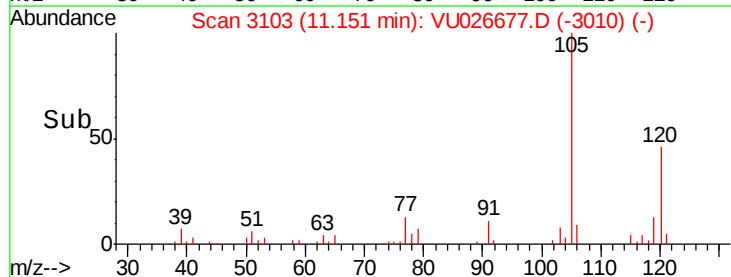
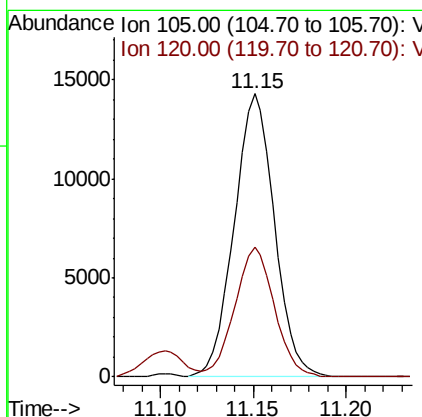
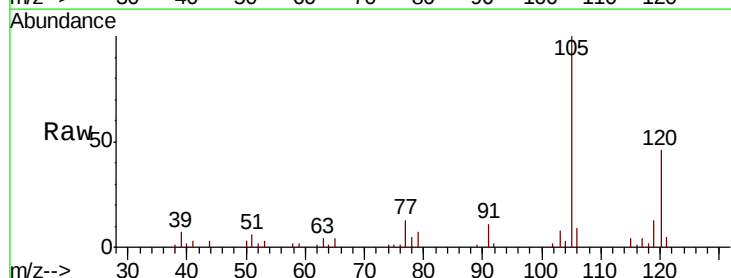
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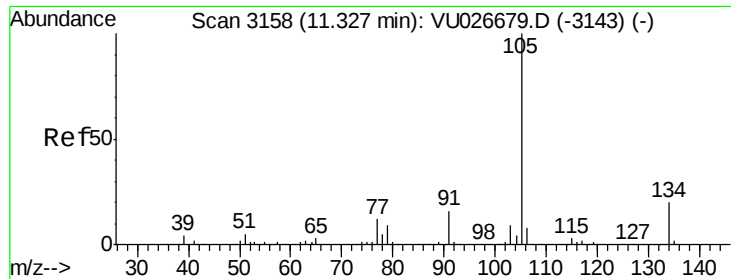
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#84
1,2,4-Trimethylbenzene
Concen: 4.90 ug/l
RT: 11.15 min Scan# 3103
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	21527		
120	44.9	23.3	69.8	





#85

sec-Butylbenzene

Concen: 4.86 ug/l

RT: 11.32 min Scan# 3157

Delta R.T. -0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

Instrument :

MSVOA_U

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 25503

Ion Ratio Lower Upper

105 100

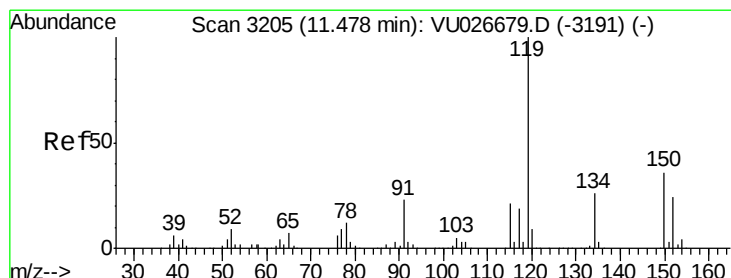
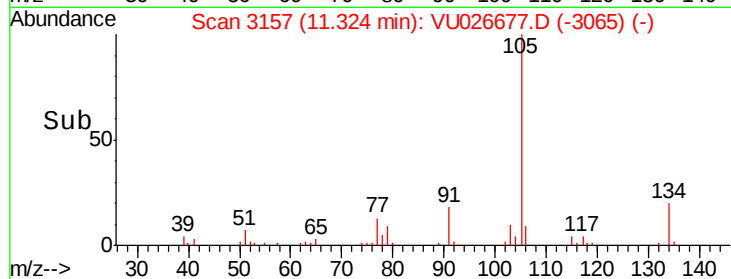
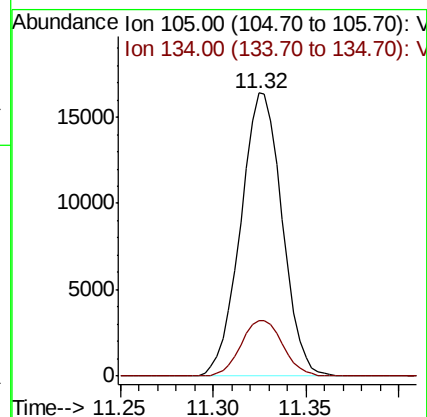
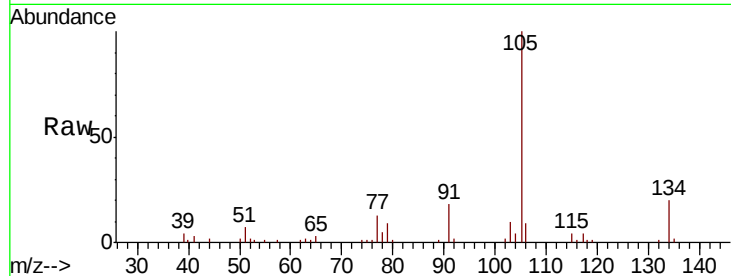
134 19.8 10.1 30.1

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 4.77 ug/l

RT: 11.48 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VU026677.D

Acq: 11 Sep 2018 10:57

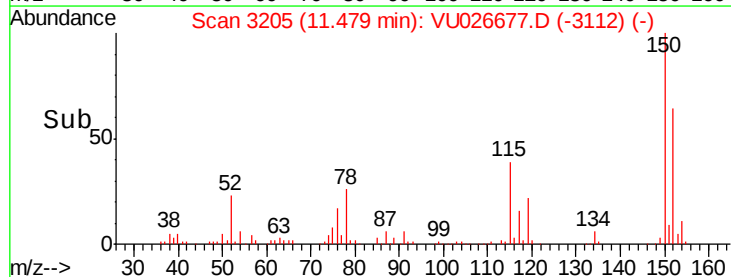
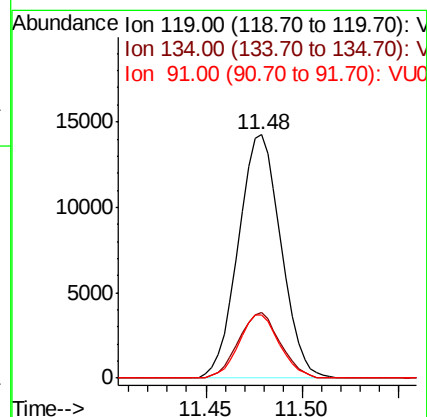
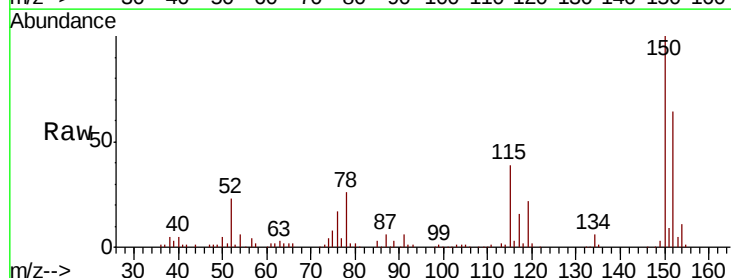
Tgt Ion:119 Resp: 21818

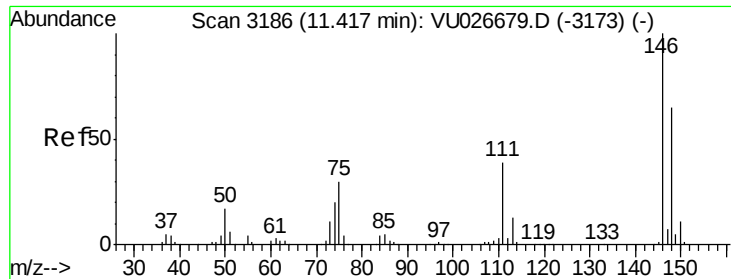
Ion Ratio Lower Upper

119 100

134 26.2 13.2 39.5

91 24.8 11.6 34.8





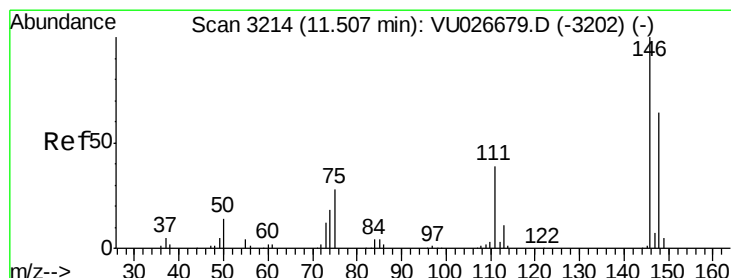
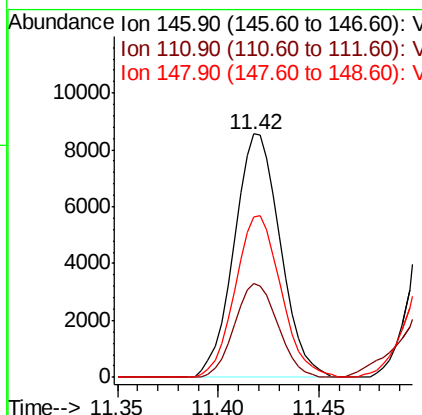
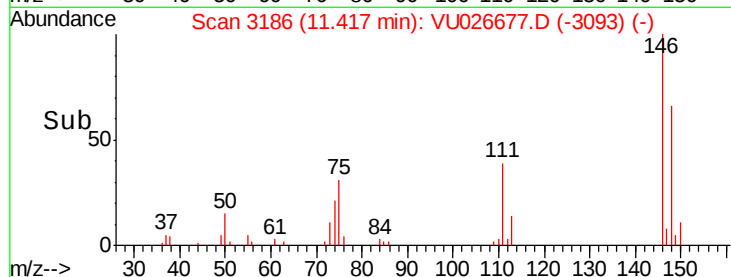
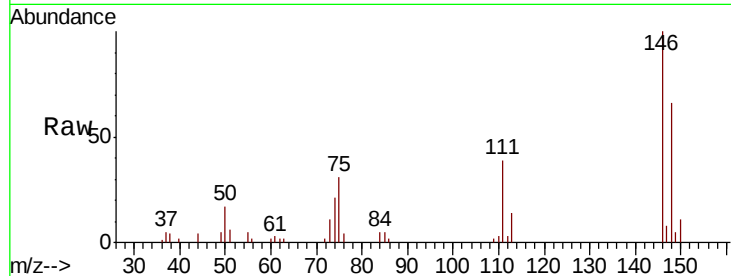
#87
 1,3-Dichlorobenzene
 Concen: 5.22 ug/l
 RT: 11.42 min Scan# 3186
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.2	19.7	59.1
148	65.9	32.1	96.3

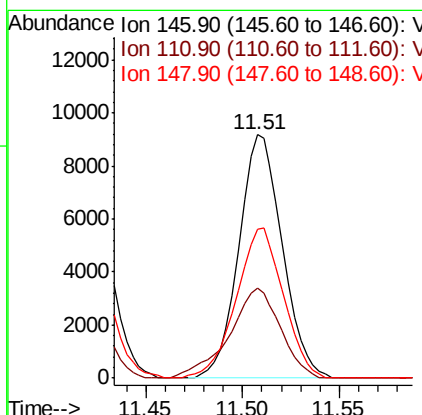
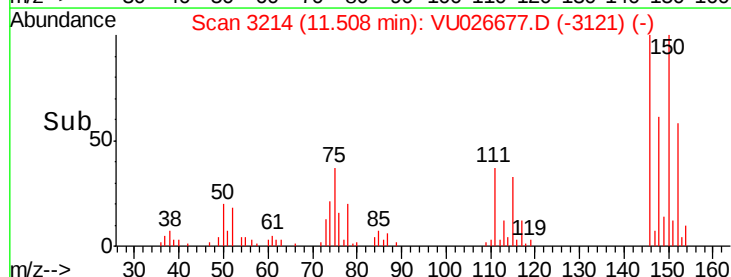
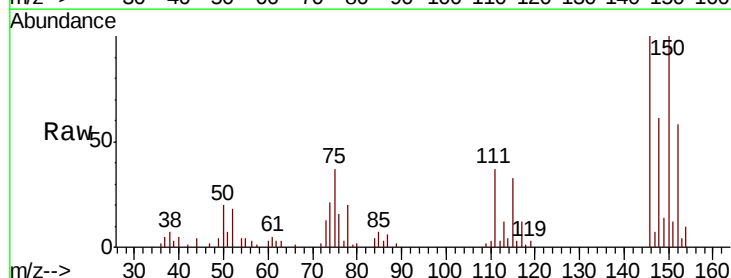
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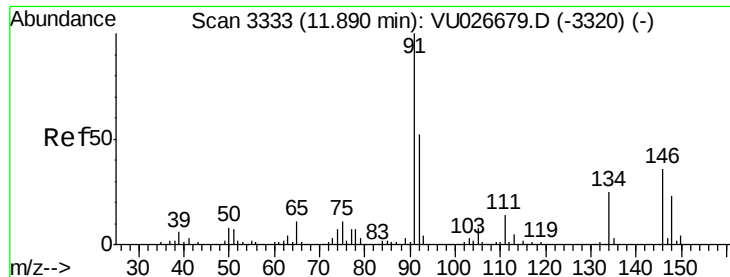
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#88
 1,4-Dichlorobenzene
 Concen: 5.24 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.4	19.2	57.6
148	66.8	32.1	96.3





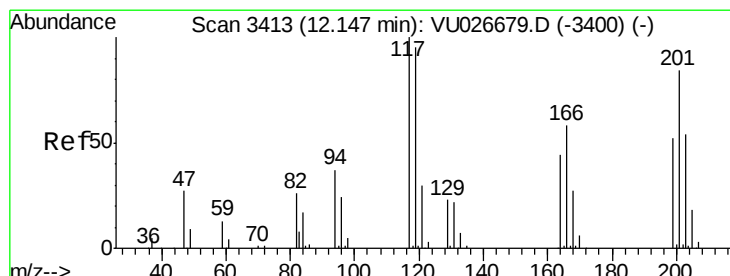
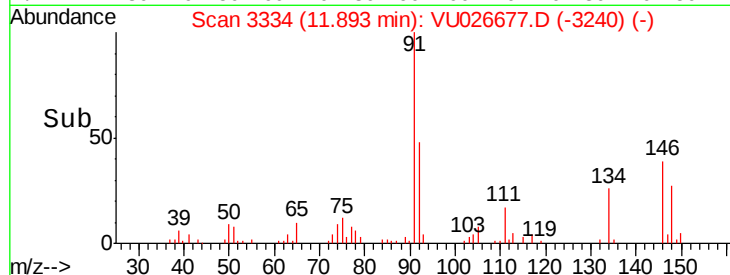
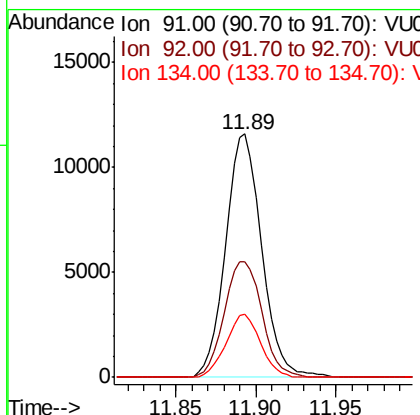
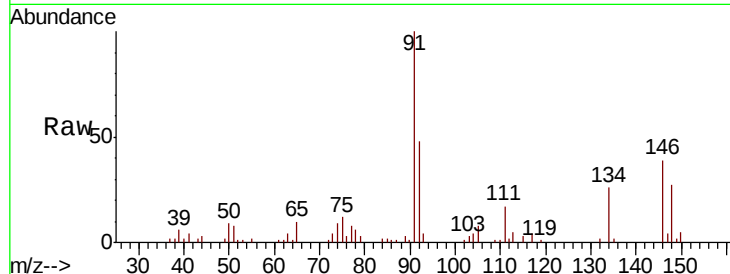
#89
n-Butylbenzene
Concen: 4.45 ug/l
RT: 11.89 min Scan# 3334
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	49.6	25.8	77.3
134	24.6	12.6	37.8

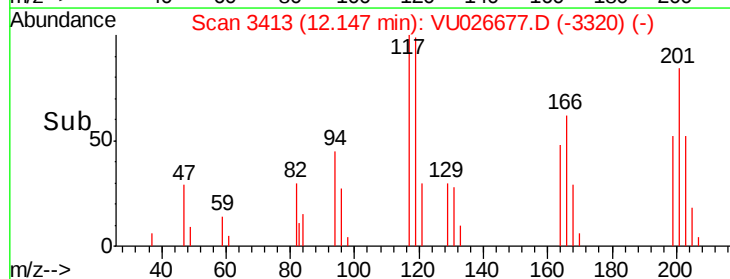
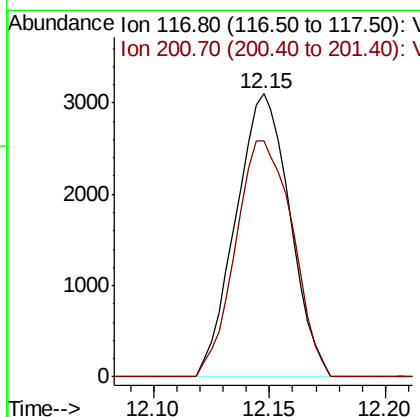
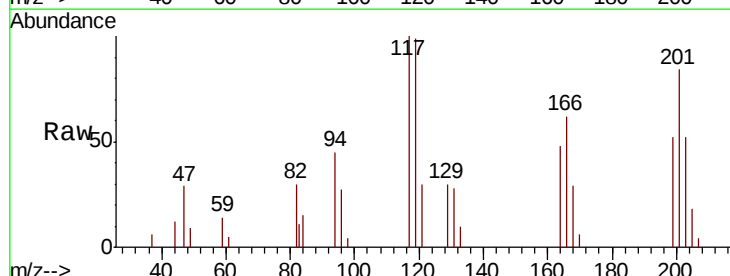
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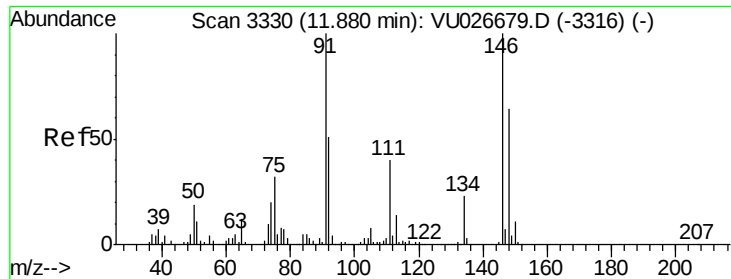
MMDadoda
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#90
Hexachloroethane
Concen: 5.42 ug/l
RT: 12.15 min Scan# 3413
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.2	42.4	127.1





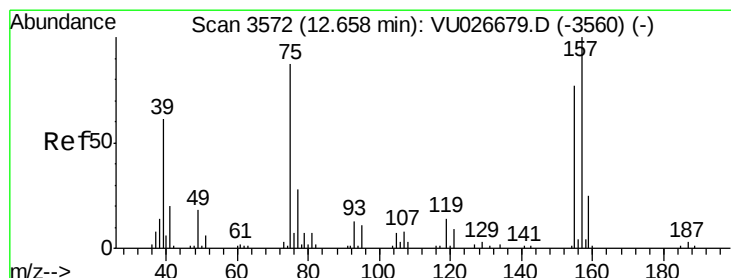
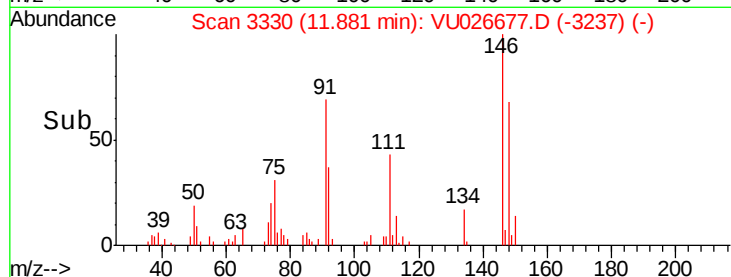
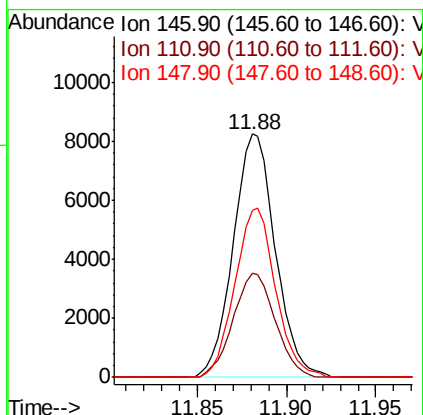
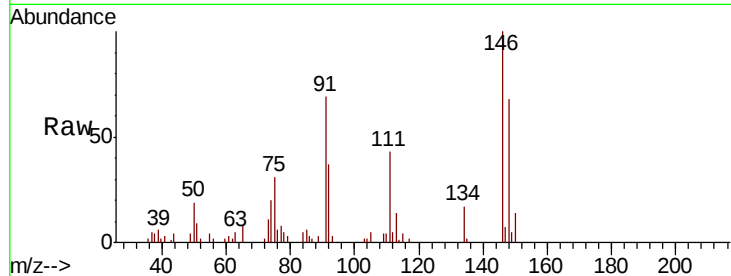
#91
 1,2-Dichlorobenzene
 Concen: 5.14 ug/l
 RT: 11.88 min Scan# 3330
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.3	60.8
148	67.0	32.1	96.3

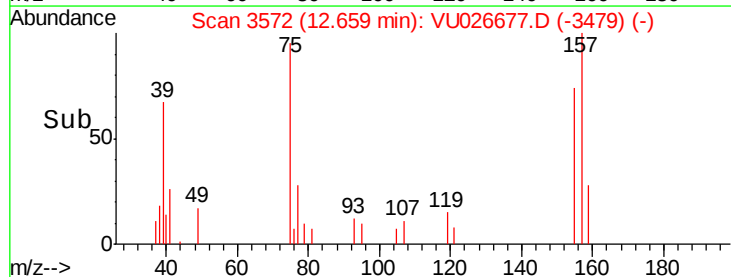
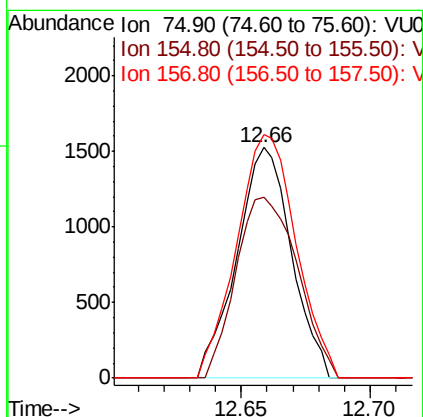
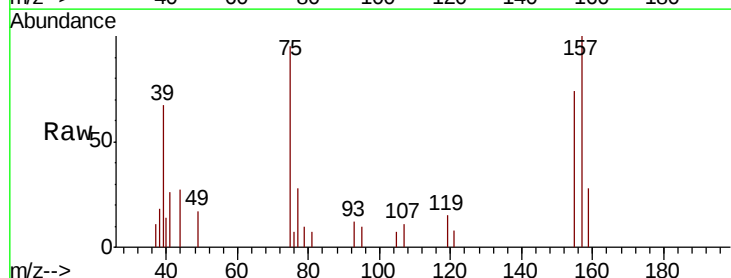
Manual Integrations
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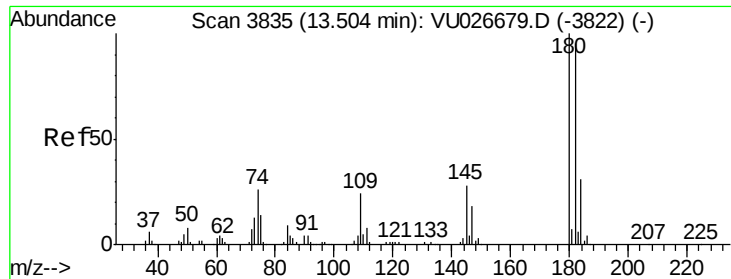
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.31 ug/l
 RT: 12.66 min Scan# 3572
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.2	44.1	132.4
157	115.3	57.2	171.6





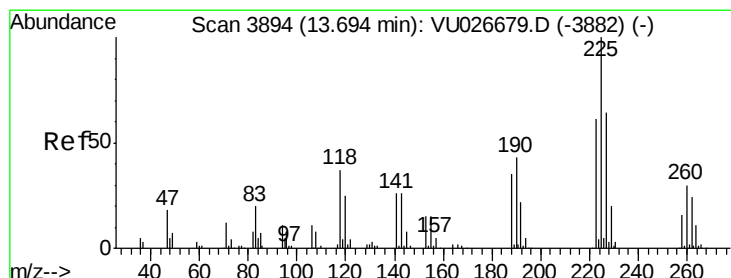
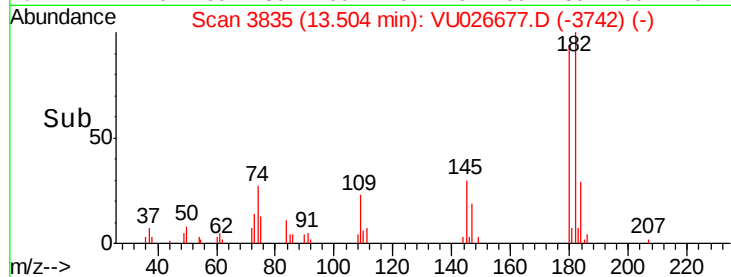
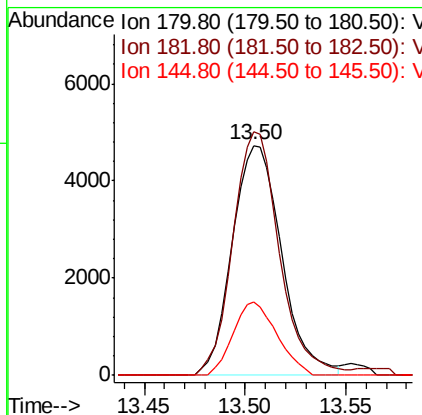
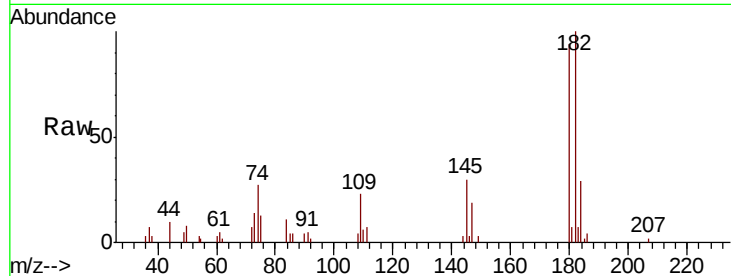
#93
 1,2,4-Trichlorobenzene
 Concen: 4.62 ug/l
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.2	47.9	143.7
145	28.4	14.0	42.0

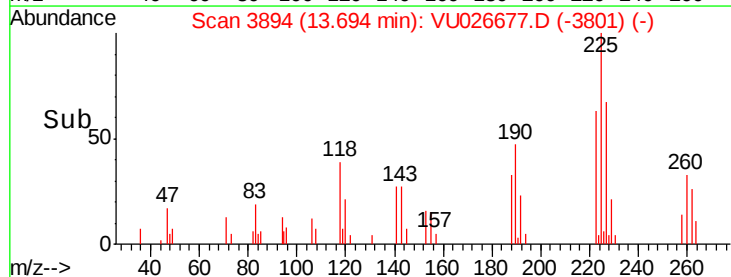
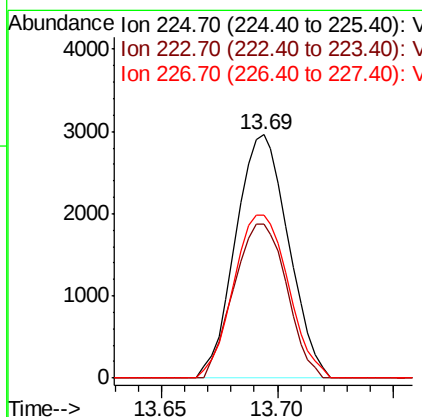
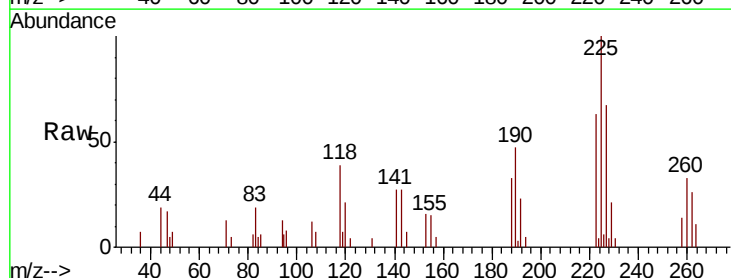
Manual Integrations
 APPROVED

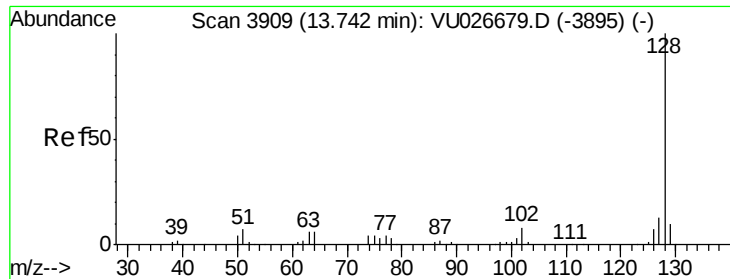
MMDadoda
 9/13/2018 4:48:53 PM



#94
 Hexachlorobutadiene
 Concen: 5.18 ug/l
 RT: 13.69 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU026677.D
 Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	30.6	92.0
227	69.2	32.1	96.3





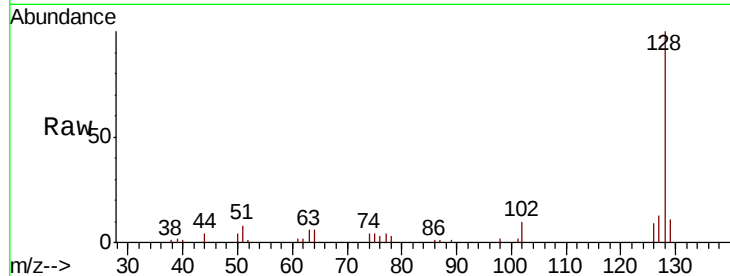
#95
Naphthalene
Concen: 4.57 ug/l
RT: 13.75 min Scan# 3910
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Instrument :
MSVOA_U
ClientSampleId :
VSTDIC005

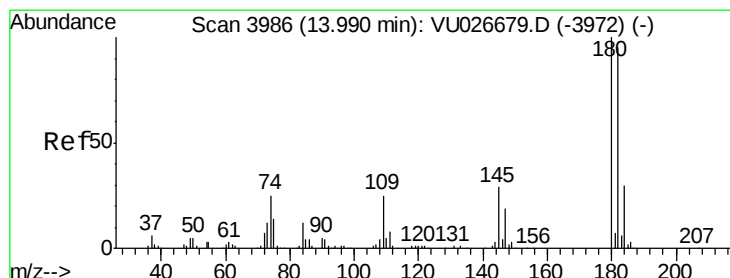
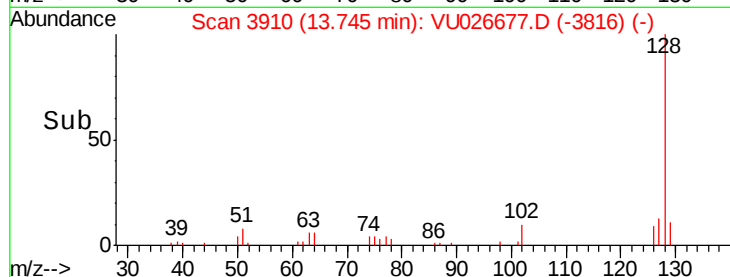
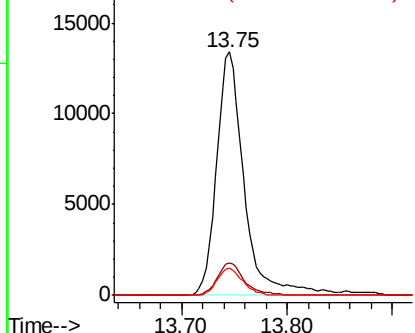
Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	10.1	8.6	12.8

Manual Integrations
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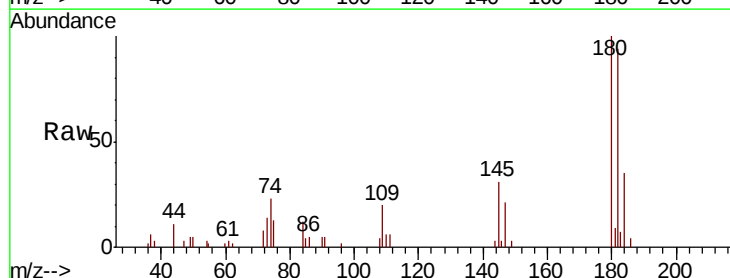


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 4.92 ug/l
RT: 13.99 min Scan# 3986
Delta R.T. 0.00 min
Lab File: VU026677.D
Acq: 11 Sep 2018 10:57

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.9	143.7
145	28.4	14.9	44.9



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

