

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026158.D
 Acq On : 15 Aug 2018 19:59
 Operator : MD/SY
 Sample : MDL03
 Misc : 5.00µ/5mL/100µL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:20 PM

Quant Time: Aug 16 04:52:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 16 04:40:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	288315	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	270355	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	115982	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	68372	40.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.78%
7) Chloroethane-d5	1.67	69	60449	43.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.88%
11) 1,1-Dichloroethene-d2	2.27	63	109137	32.83	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.66%
21) 2-Butanone-d5	4.18	46	131463	101.20	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.20%
24) Chloroform-d	4.65	84	169637	44.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.46%
26) 1,2-Dichloroethane-d4	5.31	65	113669	45.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.60%
32) Benzene-d6	5.34	84	324289	46.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.04%
36) 1,2-Dichloropropane-d6	6.33	67	106693	46.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.12%
41) Toluene-d8	7.57	98	295543	44.30	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.60%
43) trans-1,3-Dichloropropene-	7.85	79	49199	45.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.70%
47) 2-Hexanone-d5	8.31	63	93189	99.26	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.26%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	150250	46.58	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.16%
64) 1,2-Dichlorobenzene-d4	11.86	152	114685	47.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.04%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	4188	1.83 ug/L #	86
3) Chloromethane	1.33	50	4697	2.26 ug/L	92
5) Vinyl chloride	1.40	62	4208	2.03 ug/L #	54
6) Bromomethane	1.62	94	2283	2.13 ug/L	87
8) Chloroethane	1.70	64	2780	2.24 ug/L	93
9) Trichlorofluoromethane	1.88	101	5627	1.84 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	3852	2.32 ug/L #	85
12) 1,1-Dichloroethene	2.28	96	3782	2.48 ug/L #	1
13) Acetone	2.33	43	3923	3.30 ug/L	93
14) Carbon disulfide	2.47	76	10366	1.96 ug/L	99
15) Methyl Acetate	2.62	43	4573	2.22 ug/L	93
16) Methylene chloride	2.70	84	4421	2.17 ug/L	96
17) trans-1,2-Dichloroethene	2.98	96	3527	1.95 ug/L	84
18) Methyl tert-butyl Ether	3.00	73	10562	1.84 ug/L	98
19) 1,1-Dichloroethane	3.45	63	6555	1.88 ug/L	92
20) cis-1,2-Dichloroethene	4.23	96	3915	1.93 ug/L	90
22) 2-Butanone	4.28	43	6074	4.10 ug/L #	70

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	2100	1.92	ug/L	80
25) Chloroform	4.68	83	8748	2.39	ug/L	100
27) 1,2-Dichloroethane	5.41	62	6006	2.03	ug/L	99
29) Cyclohexane	5.00	56	4606	1.71	ug/L #	92
30) 1,1,1-Trichloroethane	4.92	97	6414m	1.99	ug/L	
31) Carbon tetrachloride	5.14	117	5582	1.91	ug/L	100
33) Benzene	5.39	78	15476	2.11	ug/L	100
34) Trichloroethene	6.19	95	3509	1.84	ug/L	95
35) Methylcyclohexane	6.42	83	5286	1.85	ug/L #	92
37) 1,2-Dichloropropane	6.44	63	4430	2.17	ug/L #	87
38) Bromodichloromethane	6.76	83	5147	1.90	ug/L	92
39) cis-1,3-Dichloropropene	7.27	75	5303	1.75	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	9220	3.64	ug/L	92
42) Toluene	7.64	91	14178	1.82	ug/L	96
44) trans-1,3-Dichloropropene	7.88	75	5895	2.02	ug/L	97
45) 1,1,2-Trichloroethane	8.07	97	3878	2.00	ug/L	95
46) Tetrachloroethene	8.23	164	3302	2.01	ug/L	89
48) 2-Hexanone	8.37	43	8130	4.09	ug/L #	92
49) Dibromochloromethane	8.48	129	4449	1.91	ug/L	91
50) 1,2-Dibromoethane	8.59	107	4075	2.02	ug/L #	81
51) Chlorobenzene	9.12	112	10186	1.92	ug/L	98
52) Ethylbenzene	9.25	91	14530	1.72	ug/L	95
53) m,p-Xylene	9.38	106	5629	1.72	ug/L	97
54) o-xylene	9.78	106	4675	1.44	ug/L	89
55) Styrene	9.80	104	7189	1.33	ug/L	96
56) Isopropylbenzene	10.17	105	12629	1.51	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	7008	2.16	ug/L #	98
59) 1,2,3-Trichloropropane	10.50	75	5097	2.02	ug/L	99
61) Bromoform	9.96	173	3108	2.05	ug/L #	93
62) 1,3-Dichlorobenzene	11.42	146	5881	1.69	ug/L	97
63) 1,4-Dichlorobenzene	11.51	146	6883	1.92	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	7892	2.12	ug/L	94
66) 1,2-Dibromo-3-chloropropan	12.66	75	1134	1.93	ug/L #	86
67) 1,3,5-Trichlorobenzene	12.89	180	4087m	1.59	ug/L	
68) 1,2,4-trichlorobenzene	13.51	180	2790m	1.43	ug/L	
69) Naphthalene	13.76	128	7307m	1.32	ug/L	
70) 1,2,3-Trichlorobenzene	13.99	180	2860	1.37	ug/L #	85

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

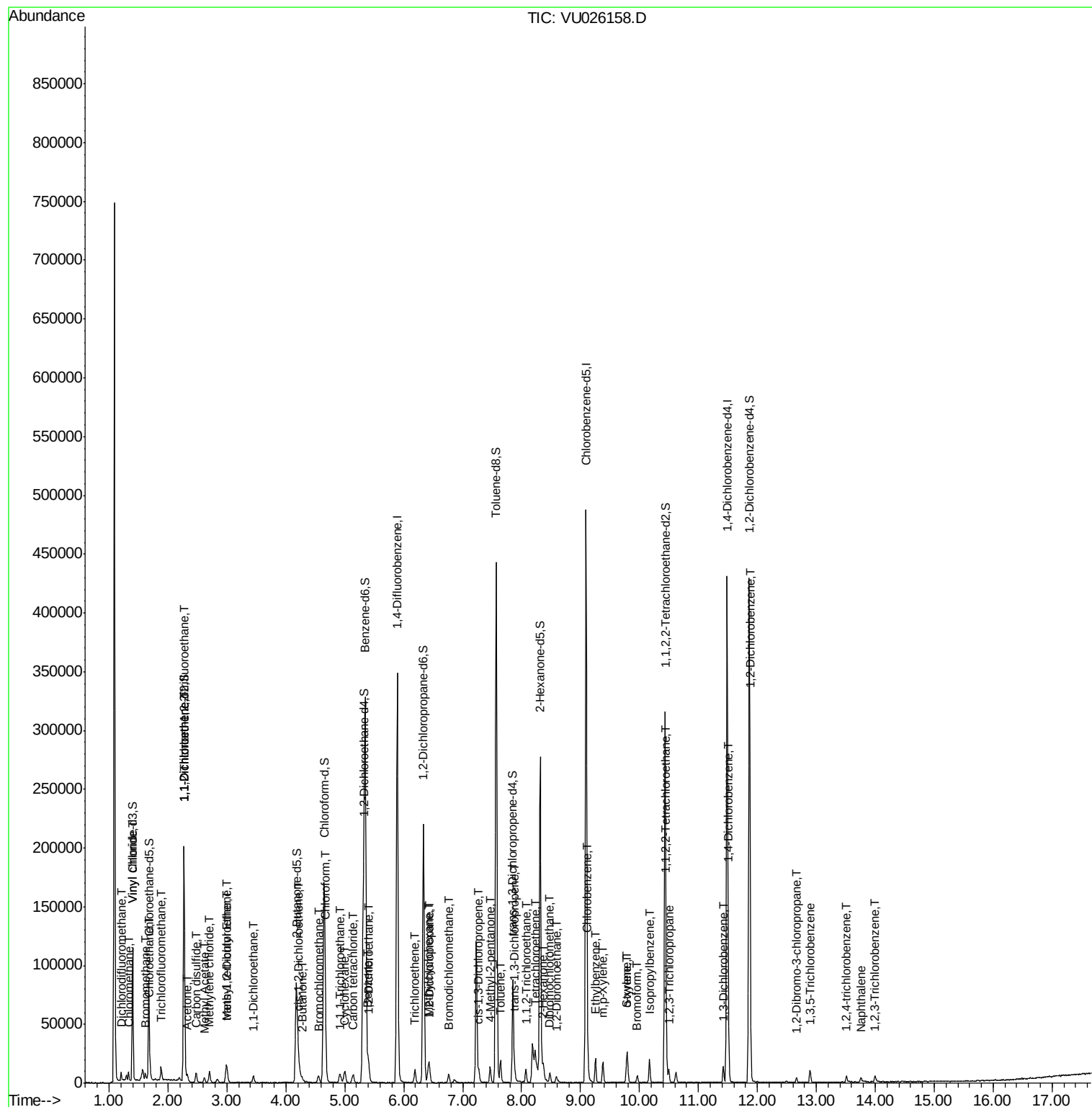
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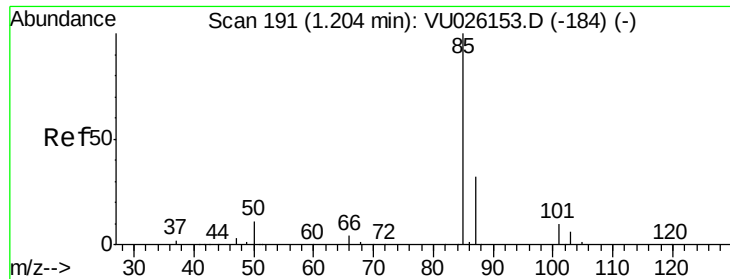
Instrument :
MSVOA_U
ClientSampleId :
MDL03

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#2

Dichlorodifluoromethane

Concen: 1.83 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 85 Resp: 4188

Ion Ratio Lower Upper

85 100

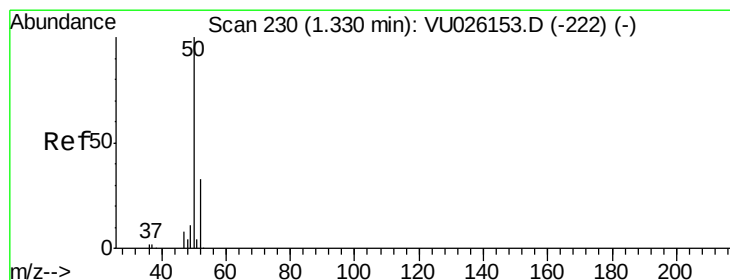
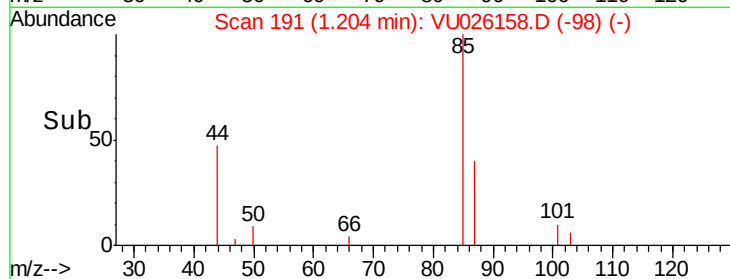
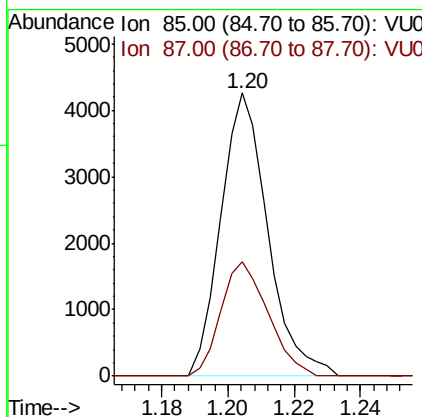
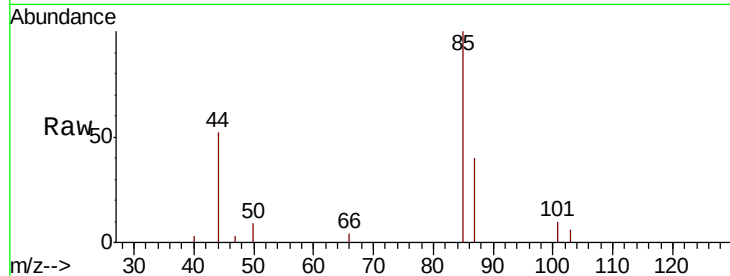
87 40.6 26.1 39.1#

Manual Integrations

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#3

Chloromethane

Concen: 2.26 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026158.D

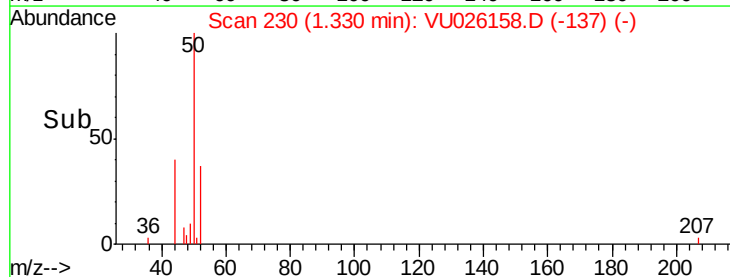
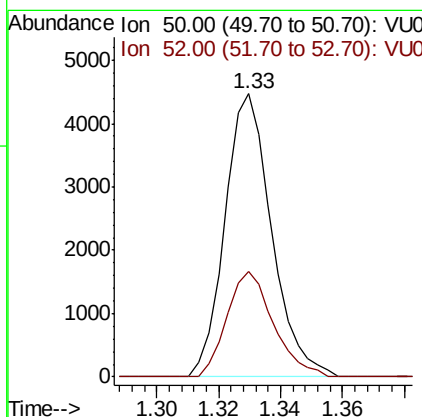
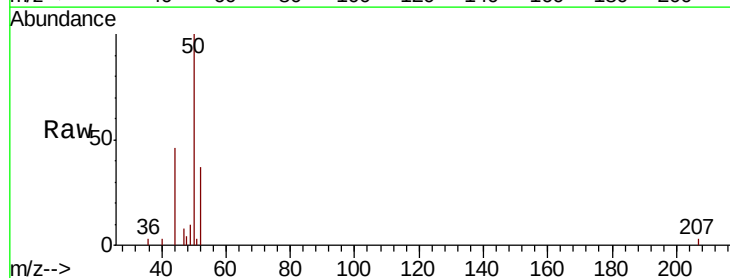
Acq: 15 Aug 2018 19:59

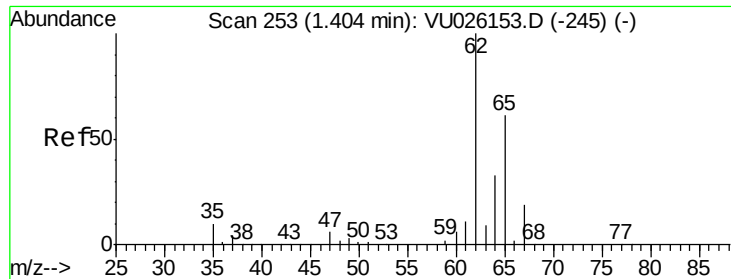
Tgt Ion: 50 Resp: 4697

Ion Ratio Lower Upper

50 100

52 37.4 23.0 42.8





#5

Vinyl chloride

Concen: 2.03 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 4208

Ion Ratio Lower Upper

62 100

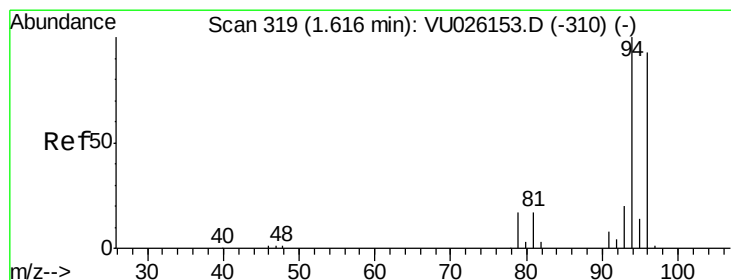
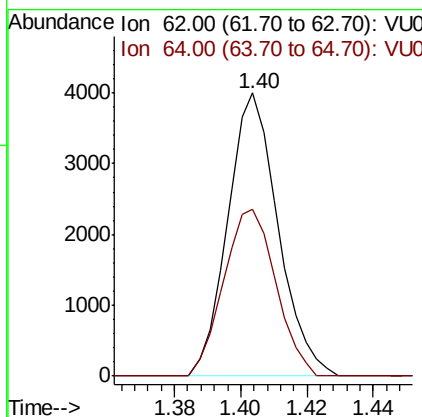
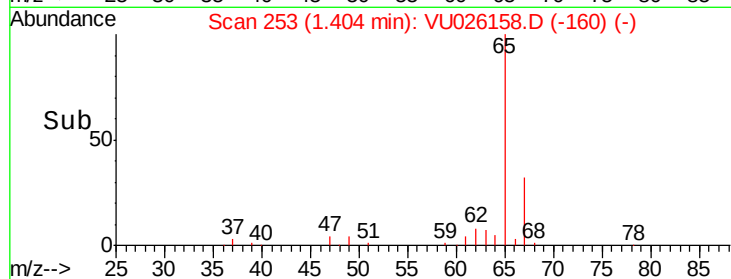
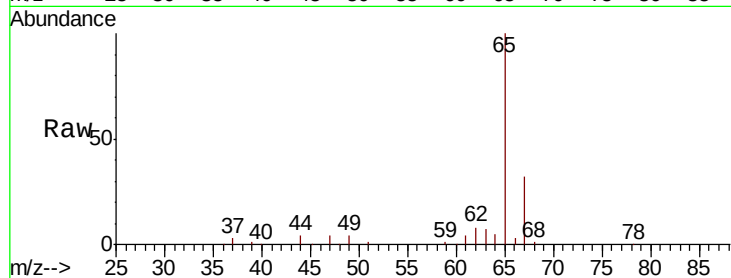
64 59.0 23.0 42.8#

Manual Integrations

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#6

Bromomethane

Concen: 2.13 ug/L

RT: 1.62 min Scan# 319

Delta R.T. -0.00 min

Lab File: VU026158.D

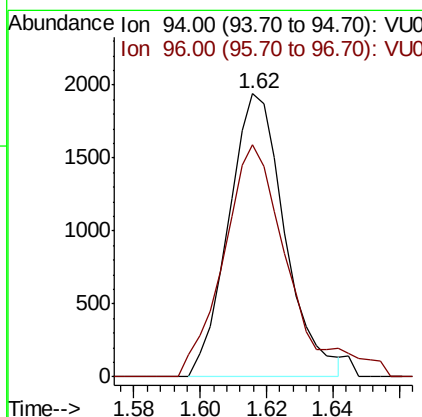
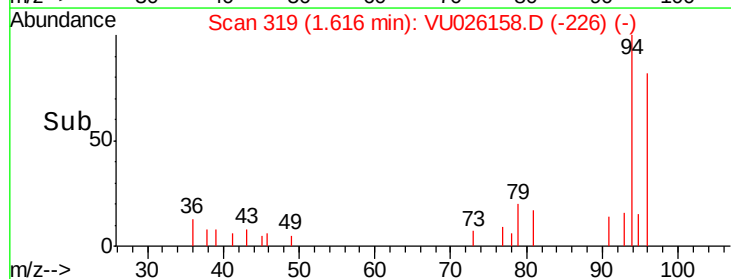
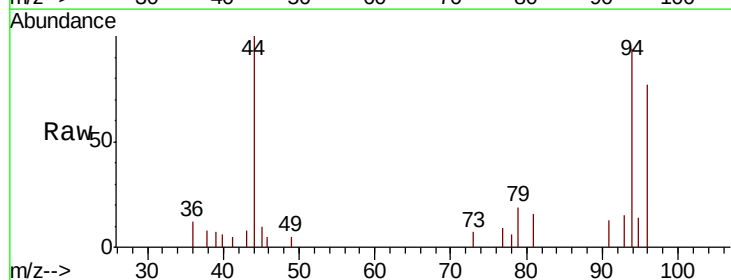
Acq: 15 Aug 2018 19:59

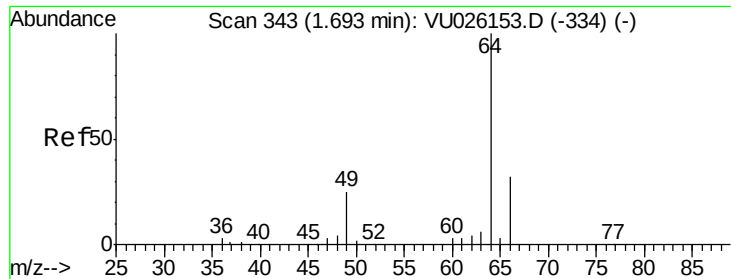
Tgt Ion: 94 Resp: 2283

Ion Ratio Lower Upper

94 100

96 82.1 65.9 122.5





#8

Chloroethane

Concen: 2.24 ug/L

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 64 Resp: 2780

Ion Ratio Lower Upper

64 100

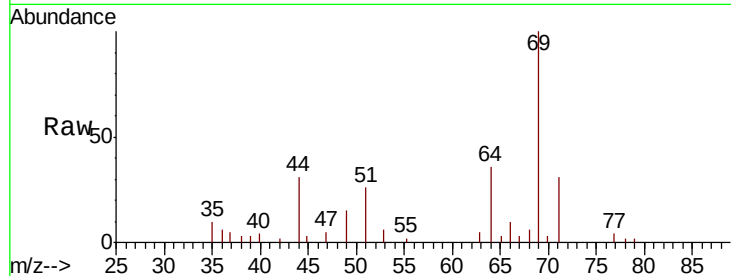
66 27.6 22.2 41.2

Manual Integrations

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Abundance Ion 64.00 (63.70 to 64.70): VU026158.D (-219) (-)

Ion 66.00 (65.70 to 66.70): VU026158.D (-219) (-)

1.70

1500

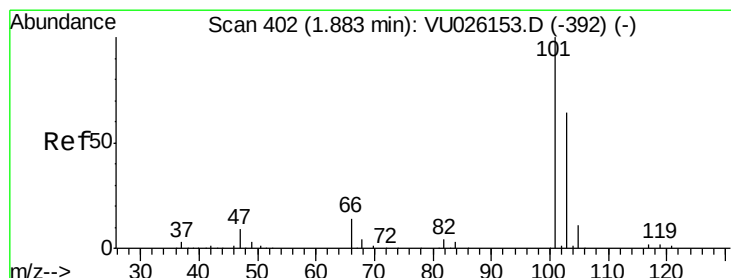
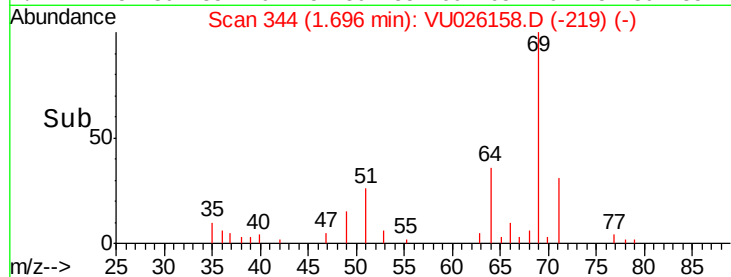
1000

500

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 1.84 ug/L

RT: 1.88 min Scan# 402

Delta R.T. -0.00 min

Lab File: VU026158.D

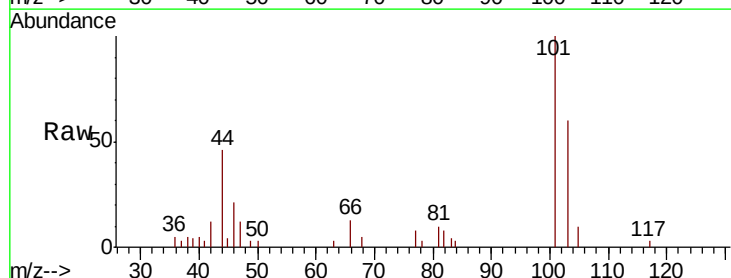
Acq: 15 Aug 2018 19:59

Tgt Ion:101 Resp: 5627

Ion Ratio Lower Upper

101 100

103 66.3 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU026158.D (-278) (-)

Ion 103.00 (102.70 to 103.70): VU026158.D (-278) (-)

1.88

4000

3000

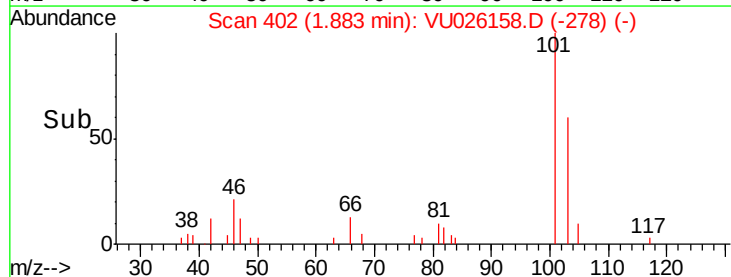
2000

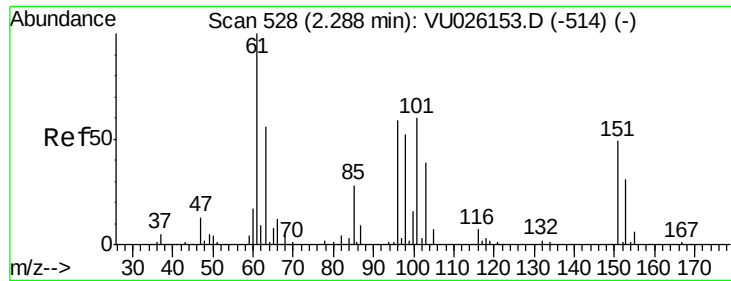
1000

0

1.85 1.90

Time-->





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.32 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.01 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

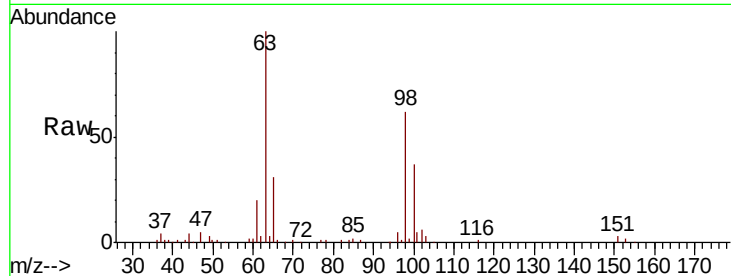
ClientSampled :

MDL03

Tot Ion	Ratio	Resp	Lower	Upper
101	100	3852		
85	40.4	36.6	55.0	
151	62.6	63.8	95.8#	

Manual Integrations
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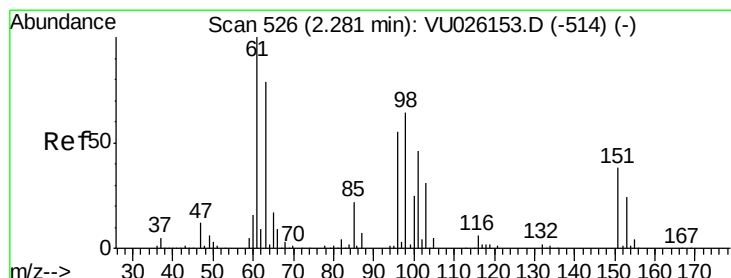
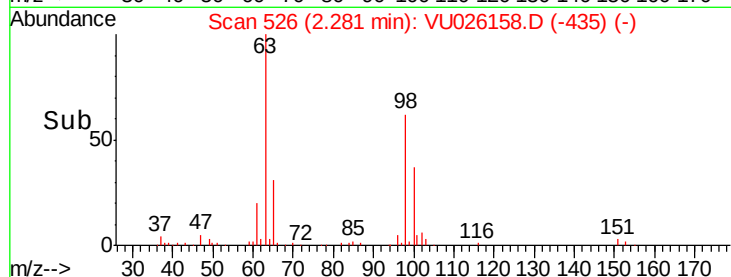
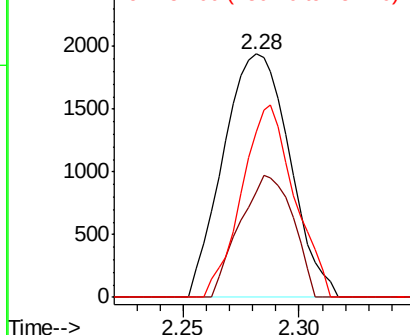


Abundance

Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.48 ug/L

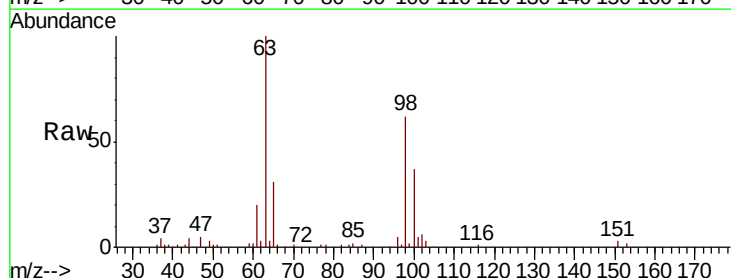
RT: 2.28 min Scan# 526

Delta R.T. -0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	3782		
61	382.7	126.8	235.4#	
63	1961.2	97.0	180.2#	

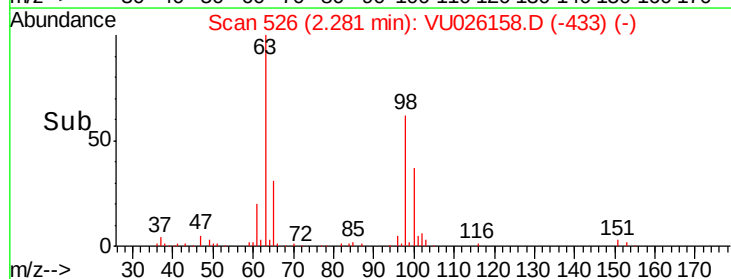
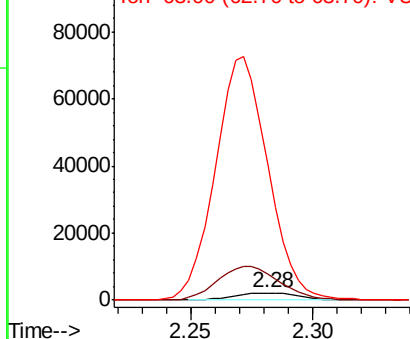


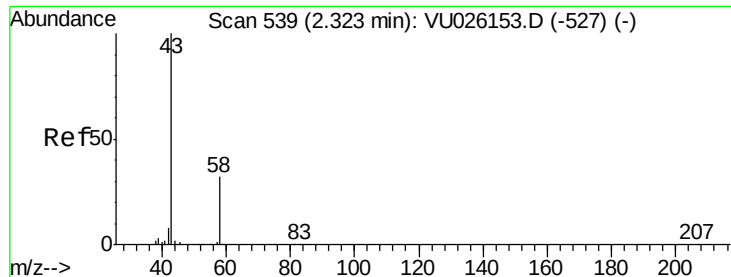
Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 3.30 ug/L

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 43 Resp: 3923

Ion Ratio Lower Upper

43 100

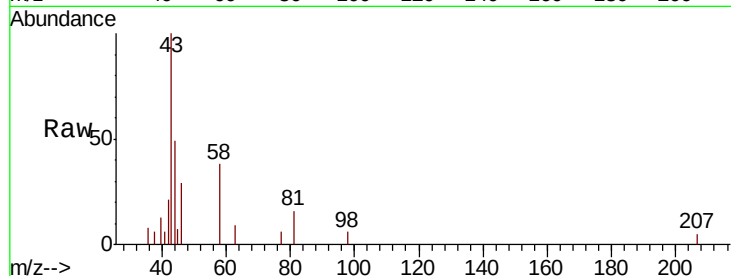
58 35.4 0.0 62.6

Manual Integrations

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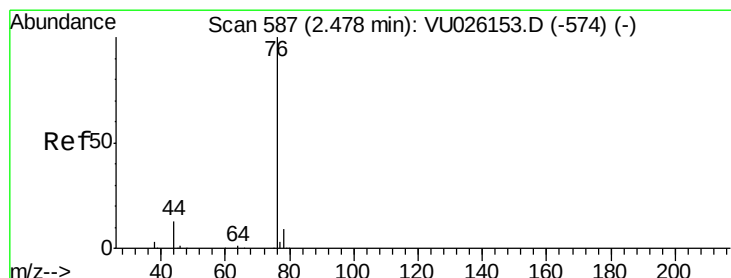
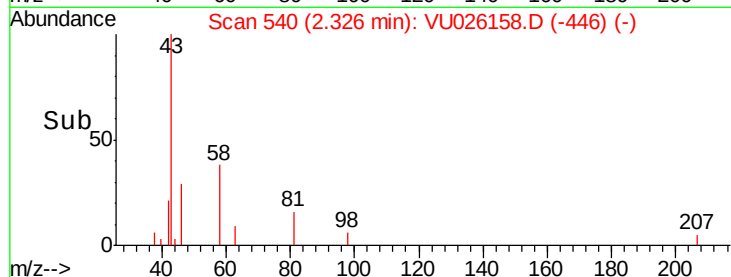
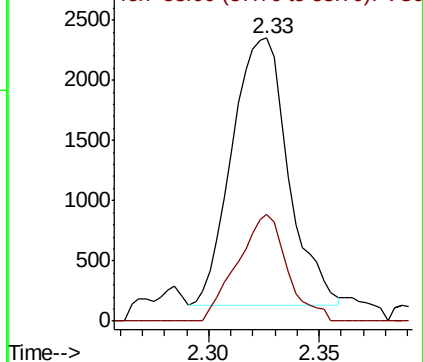
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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 1.96 ug/L

RT: 2.47 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU026158.D

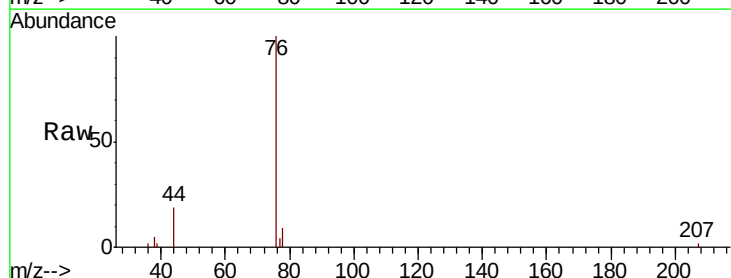
Acq: 15 Aug 2018 19:59

Tgt Ion: 76 Resp: 10366

Ion Ratio Lower Upper

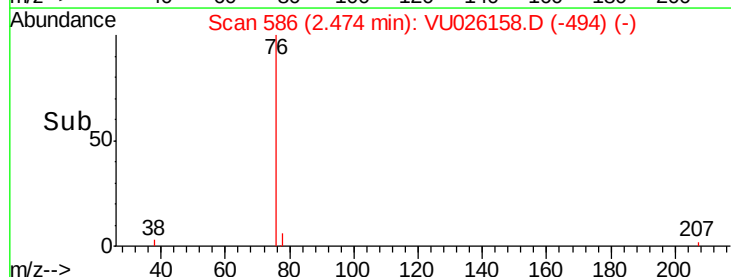
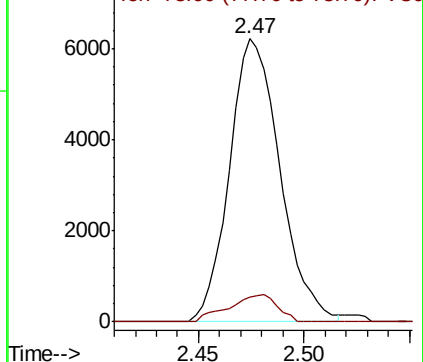
76 100

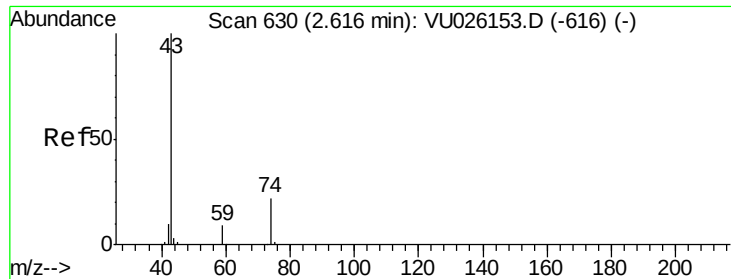
78 8.8 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





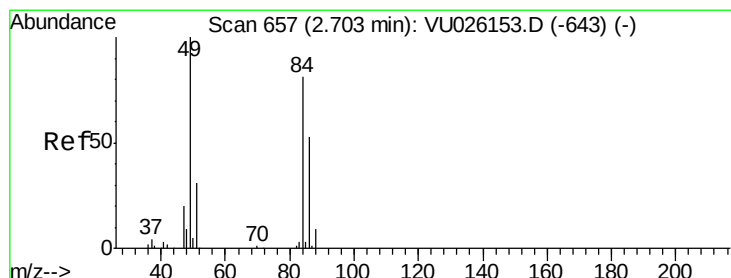
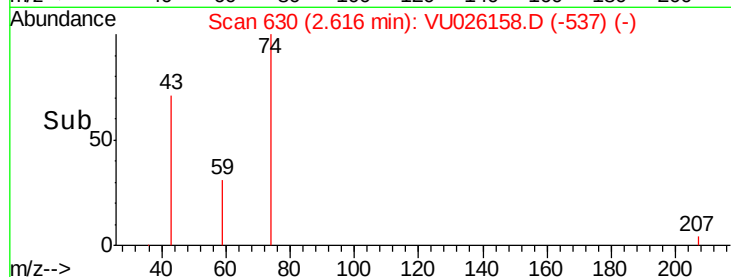
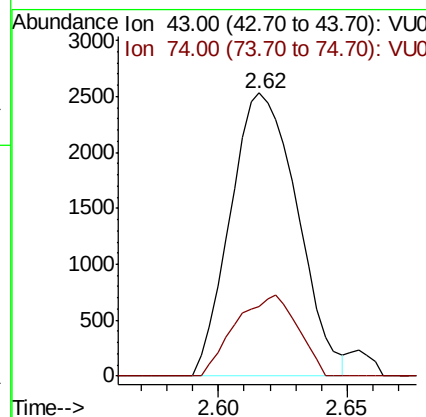
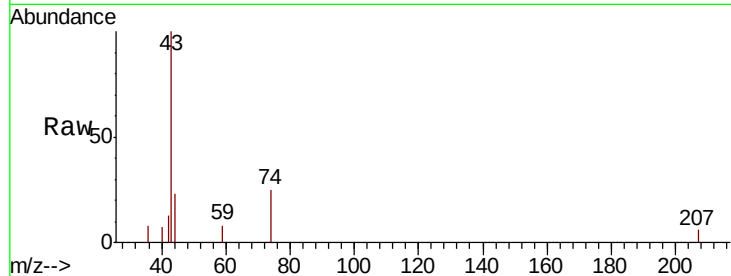
#15
Methvl Acetate
Concen: 2.22 ug/L
RT: 2.62 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU026158.D
Acq: 15 Aug 2018 19:59

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion: 43 Resp: 4573
Ion Ratio Lower Upper
43 100
74 26.7 18.6 28.0

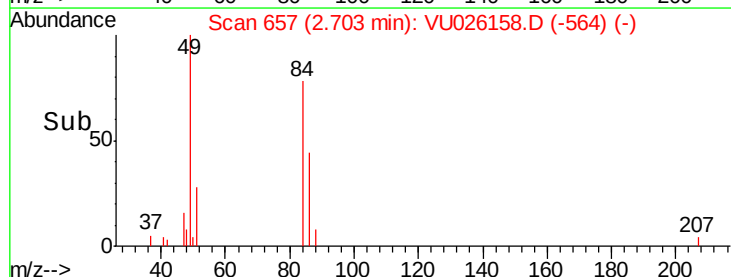
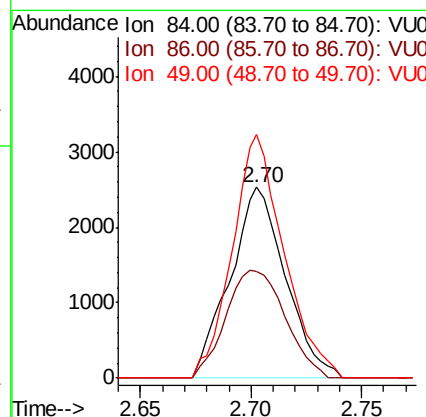
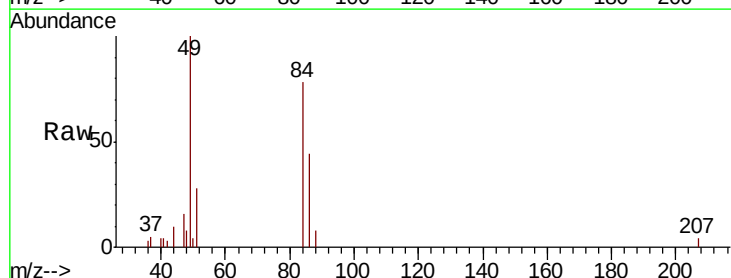
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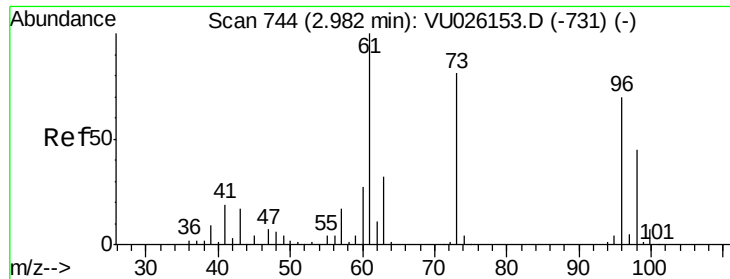
MMDadoda
8/16/2018 4:20:20 PM



#16
Methylene chloride
Concen: 2.17 ug/L
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU026158.D
Acq: 15 Aug 2018 19:59

Tgt Ion: 84 Resp: 4421
Ion Ratio Lower Upper
84 100
86 55.9 44.0 81.6
49 127.6 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 1.95 ug/L

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

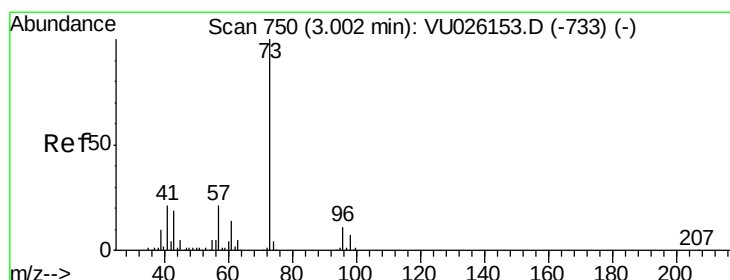
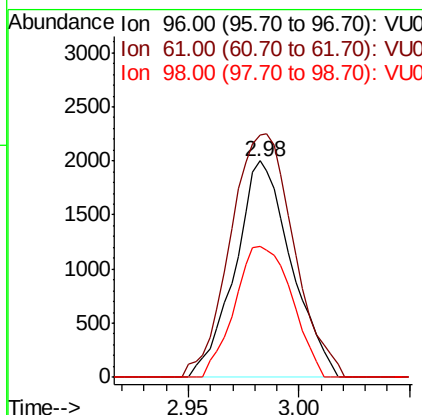
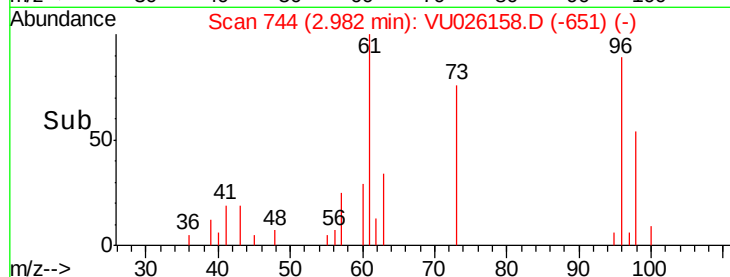
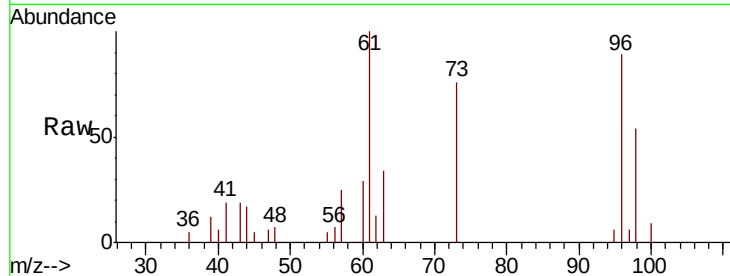
ClientSampleId :

MDL03

Tot Ion:	96	Resp:	3527
Ion	Ratio	Lower	Upper
96	100		
61	111.8	96.7	179.5
98	60.6	43.6	81.0

Manual Integrations
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MMDadoda
8/16/2018 4:20:20 PM



#18

Methyl tert-butyl Ether

Concen: 1.84 ug/L

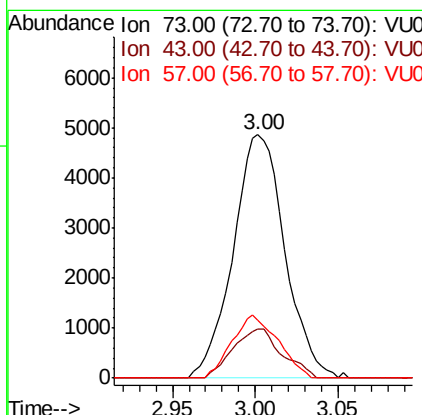
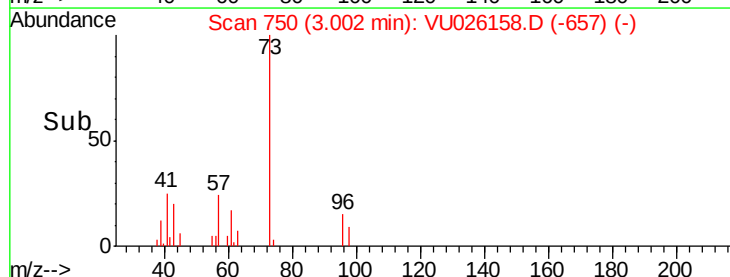
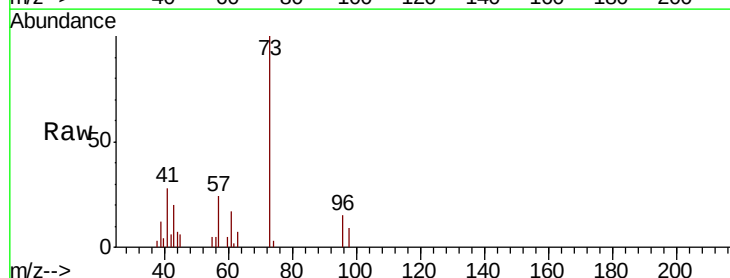
RT: 3.00 min Scan# 750

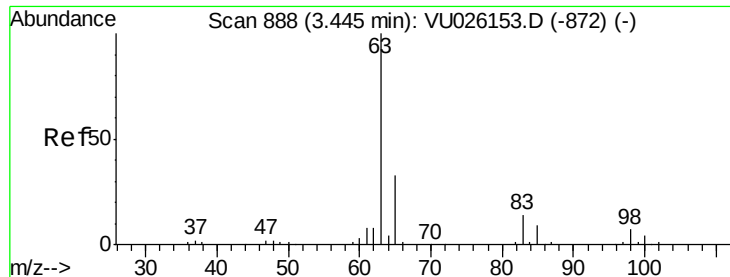
Delta R.T. -0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Tgt Ion:	73	Resp:	10562
Ion	Ratio	Lower	Upper
73	100		
43	19.0	16.2	24.4
57	23.0	18.2	27.2





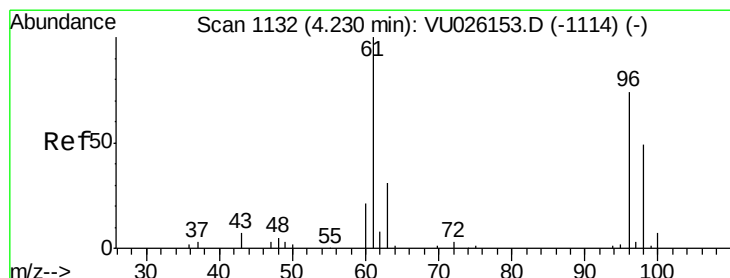
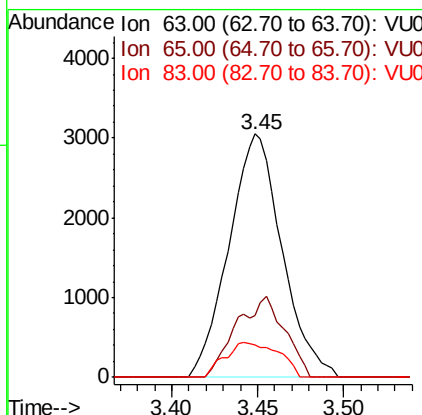
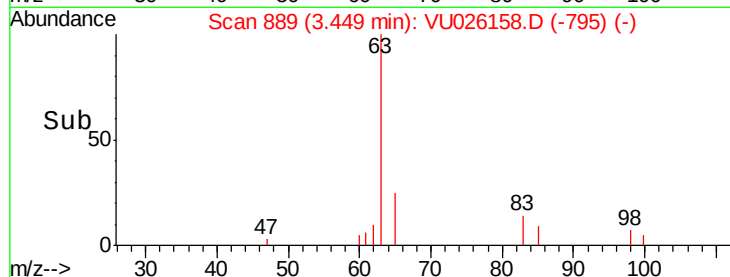
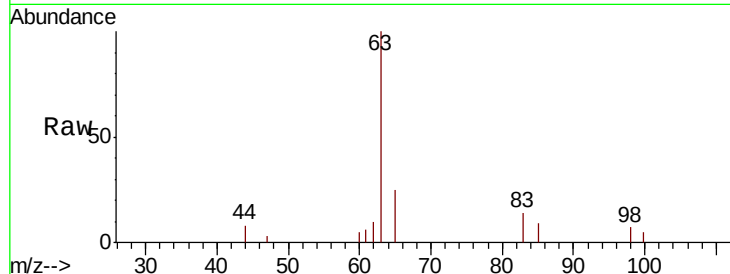
#19
 1,1-Dichloroethane
 Concen: 1.88 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion:	63	Resp:	6555
Ion	Ratio	Lower	Upper
63	100		
65	25.3	22.1	41.1
83	13.5	9.4	17.4

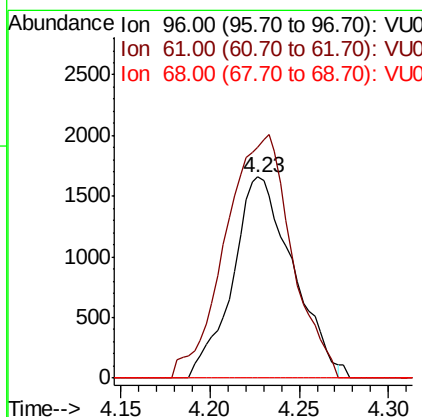
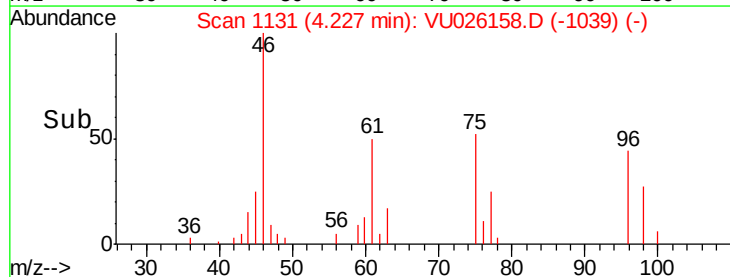
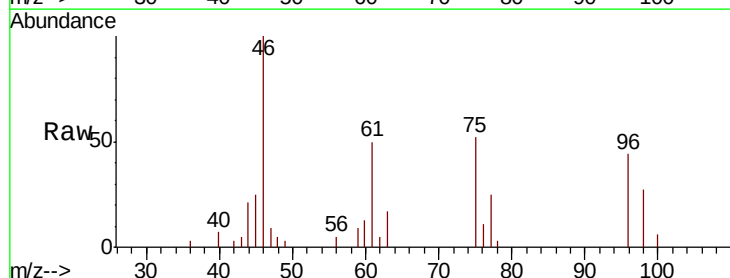
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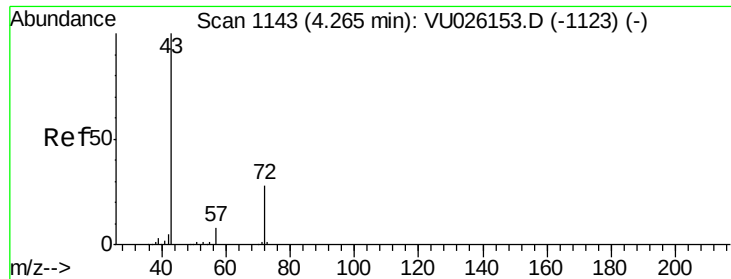
MMDadoda
 8/16/2018 4:20:20 PM



#20
 cis-1,2-Dichloroethene
 Concen: 1.93 ug/L
 RT: 4.23 min Scan# 1131
 Delta R.T. -0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Tgt Ion:	96	Resp:	3915
Ion	Ratio	Lower	Upper
96	100		
61	114.8	88.6	164.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.10 ug/L

RT: 4.28 min Scan# 1147

Delta R.T. 0.01 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 43 Resp: 6074

Ion Ratio Lower Upper

43 100

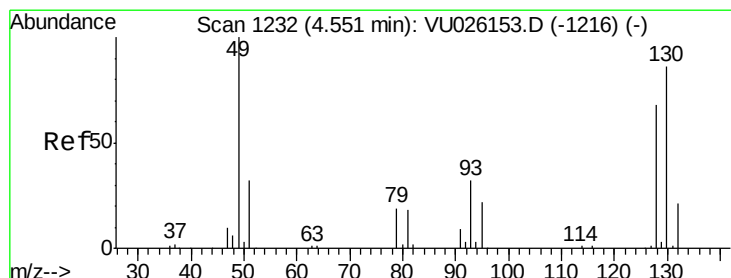
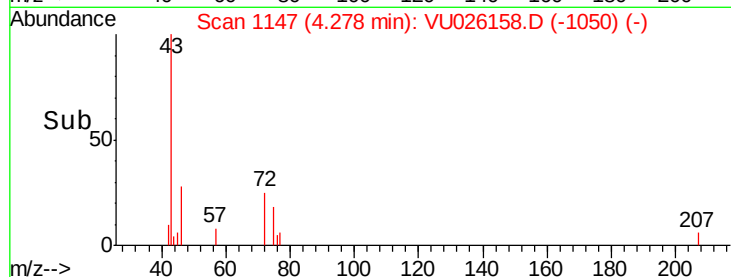
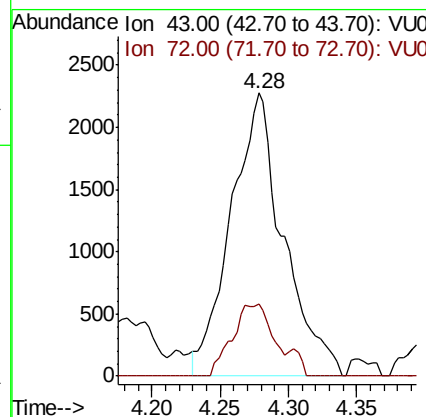
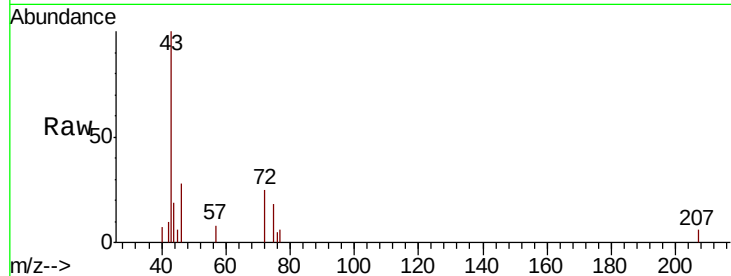
72 11.4 13.4 40.1#

Manual Integrations

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MMDadoda

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#23

Bromochloromethane

Concen: 1.92 ug/L

RT: 4.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Tgt Ion: 128 Resp: 2100

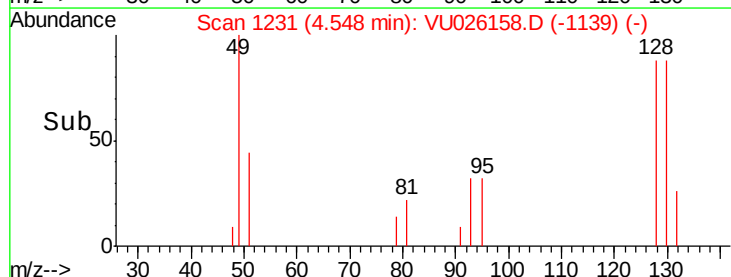
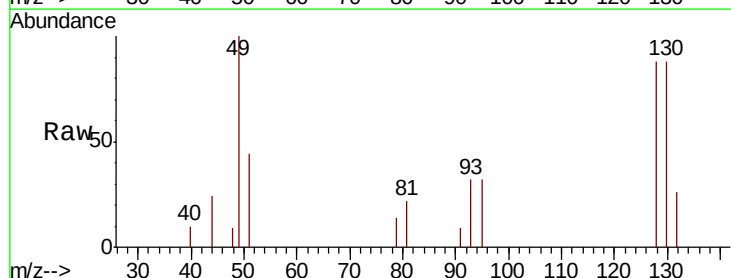
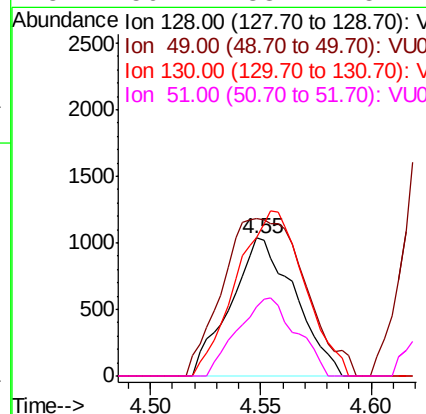
Ion Ratio Lower Upper

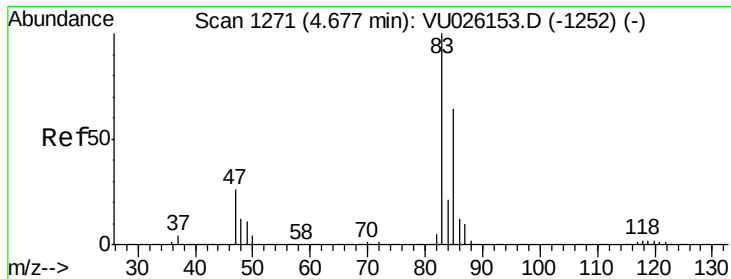
128 100

49 114.1 101.3 188.1

130 100.5 86.4 160.4

51 50.1 38.1 57.1





#25

Chloroform

Concen: 2.39 ug/L

RT: 4.68 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 83 Resp: 8748

Ion Ratio Lower Upper

83 100

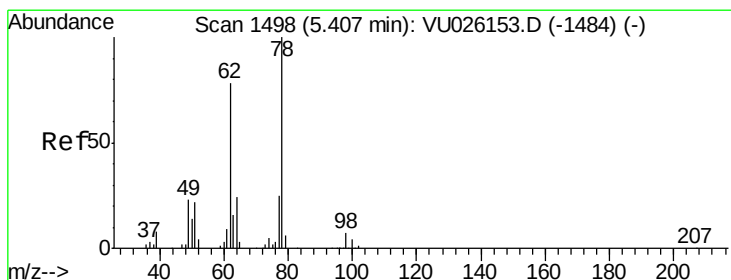
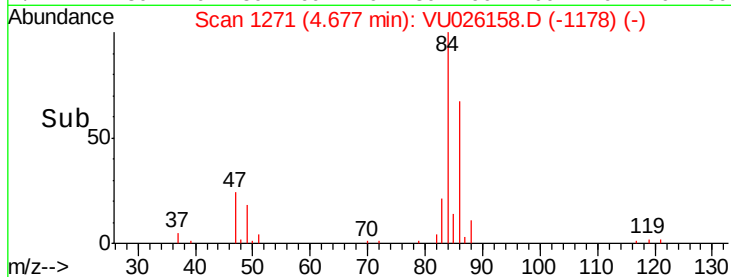
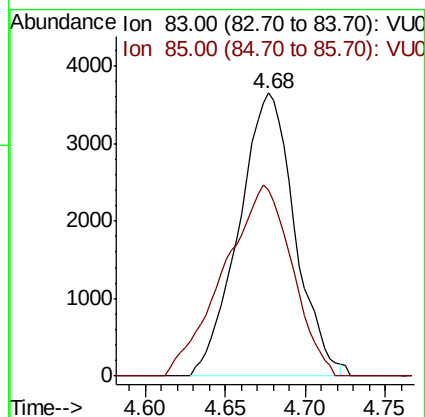
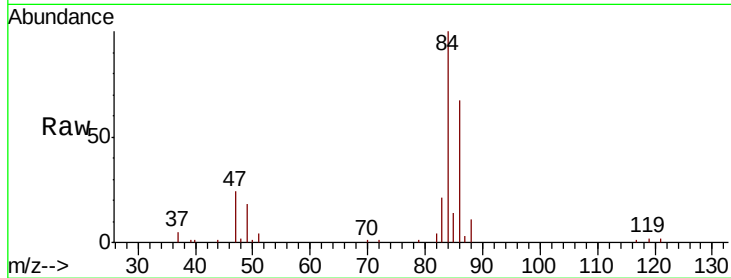
85 65.8 46.3 86.1

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#27

1,2-Dichloroethane

Concen: 2.03 ug/L

RT: 5.41 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VU026158.D

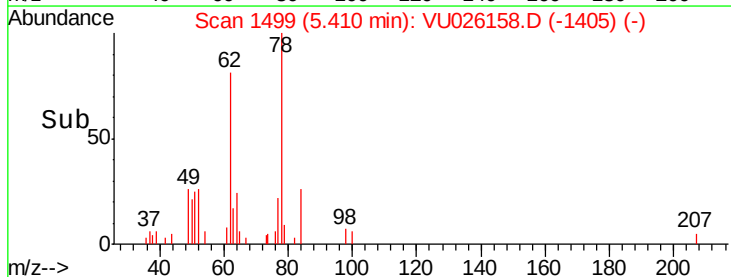
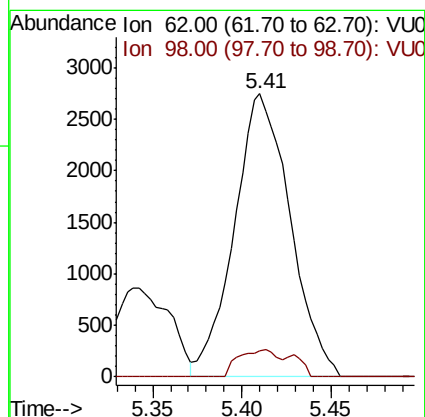
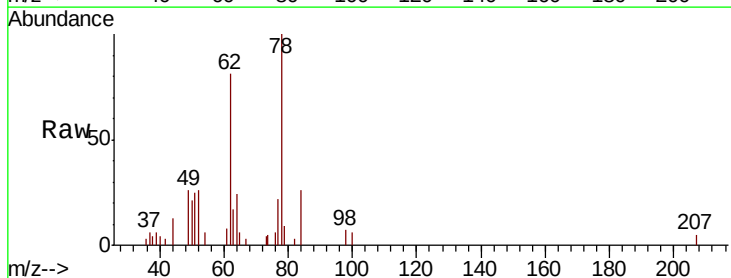
Acq: 15 Aug 2018 19:59

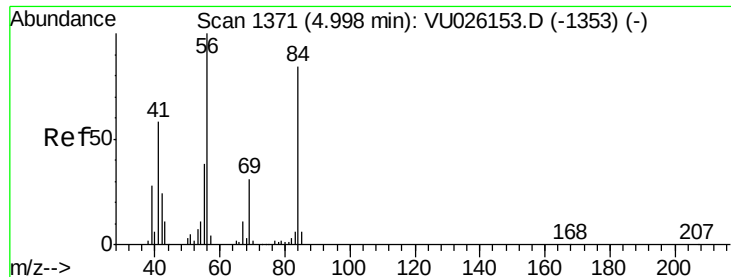
Tgt Ion: 62 Resp: 6006

Ion Ratio Lower Upper

62 100

98 9.1 7.0 10.4





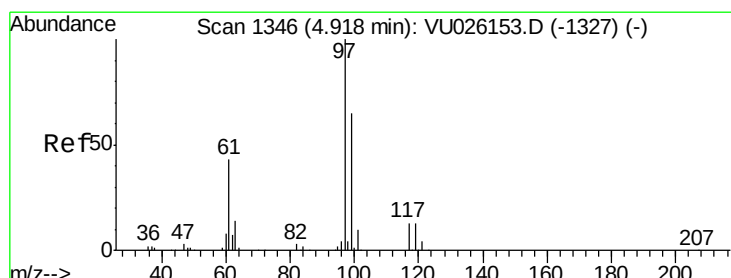
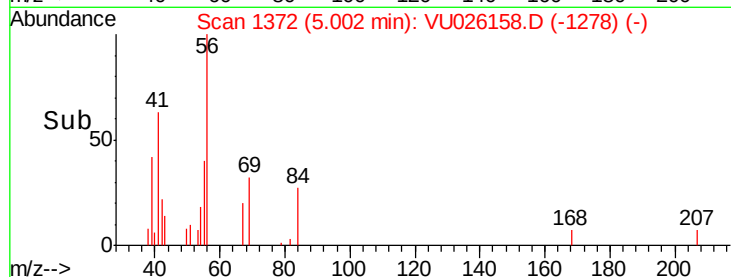
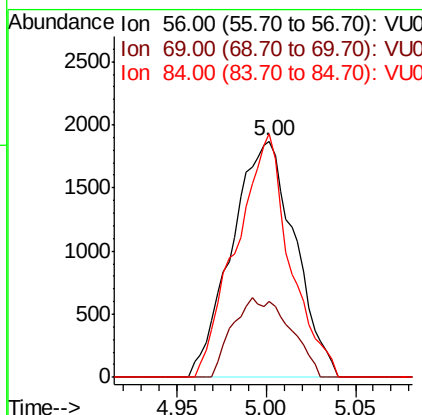
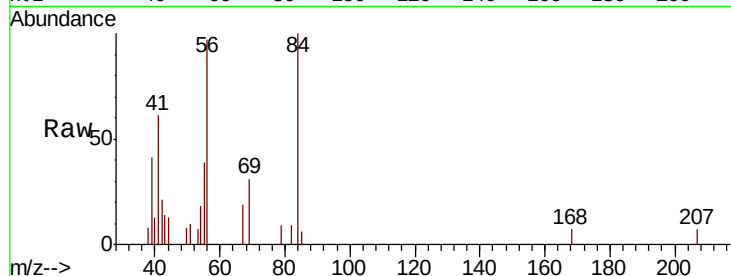
#29
Cyclohexane
Concen: 1.71 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU026158.D
Acq: 15 Aug 2018 19:59

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
56	100		
69	16.8	24.1	36.1#
84	87.9	68.6	102.8

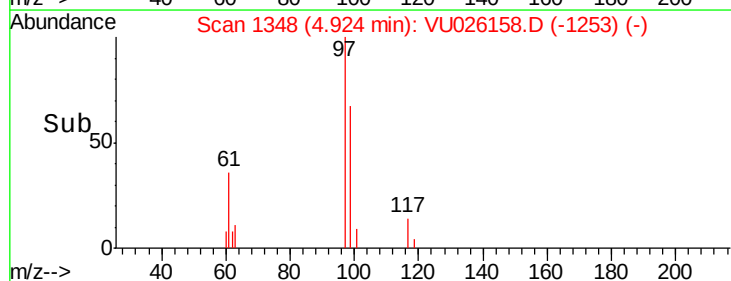
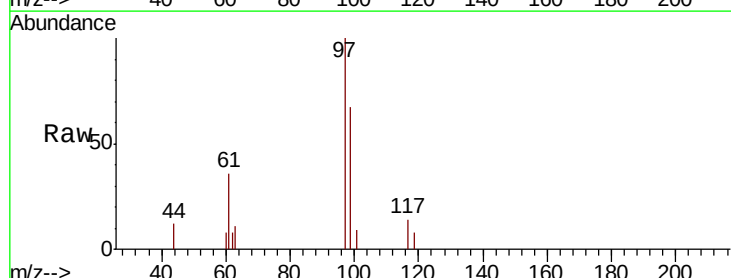
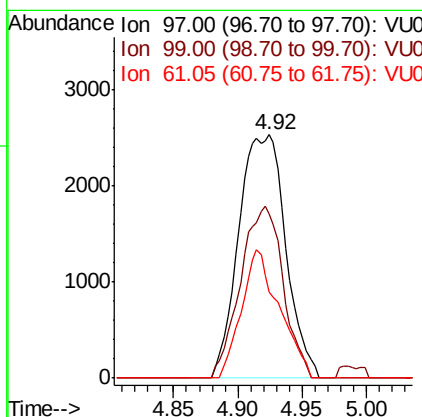
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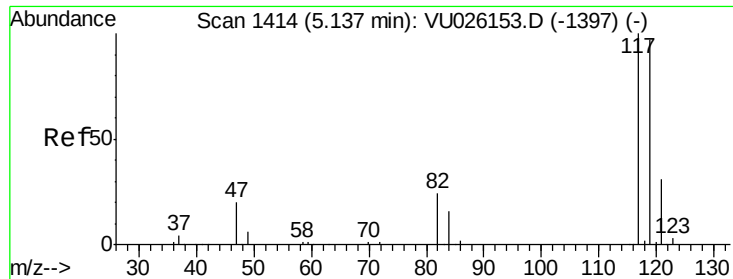
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 1.99 ug/L m
RT: 4.92 min Scan# 1348
Delta R.T. 0.01 min
Lab File: VU026158.D
Acq: 15 Aug 2018 19:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	52.2	78.2
61	42.5	35.4	53.0





#31

Carbon tetrachloride

Concen: 1.91 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion:117 Resp: 5582

Ion Ratio Lower Upper

117 100

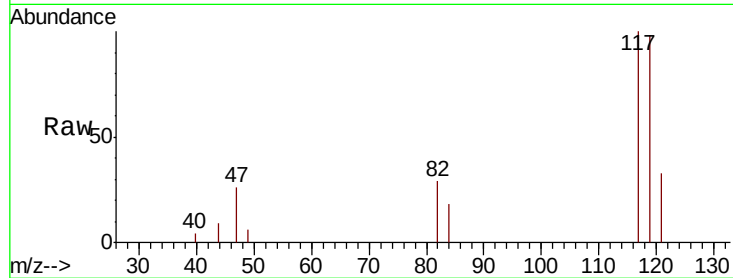
119 96.6 77.4 116.2

Manual Integrations

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.14

2500

2000

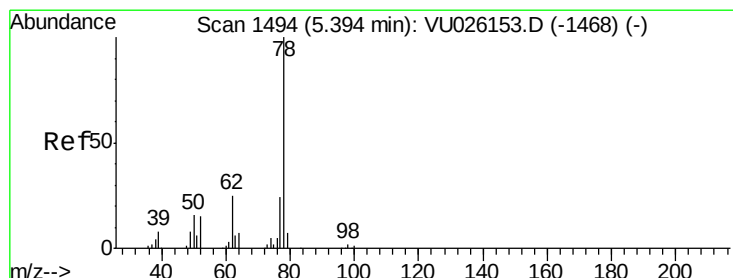
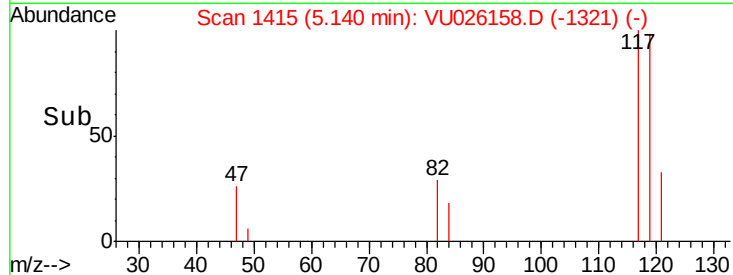
1500

1000

500

0

Time-->



#33

Benzene

Concen: 2.11 ug/L

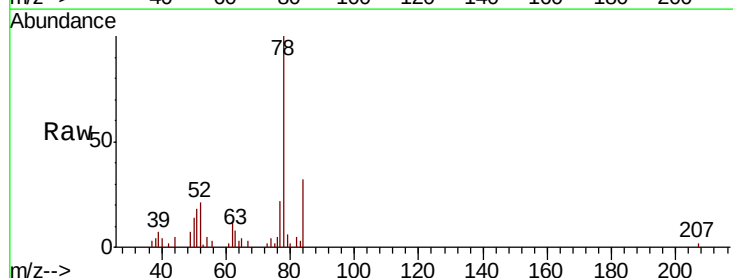
RT: 5.39 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Tgt Ion: 78 Resp: 15476



Abundance Ion 78.00 (77.70 to 78.70): VU0

8000

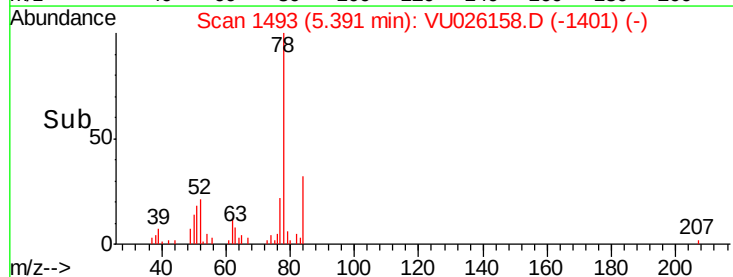
6000

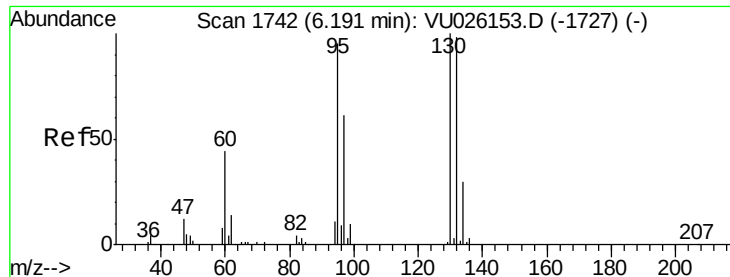
4000

2000

0

Time-->





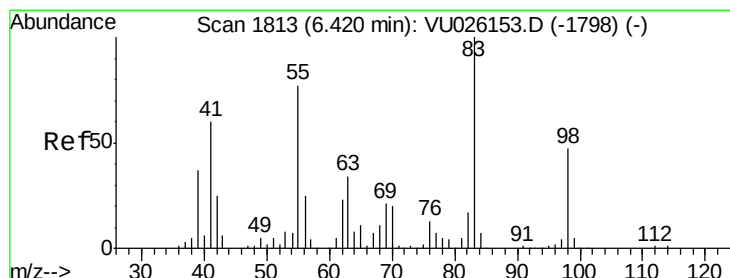
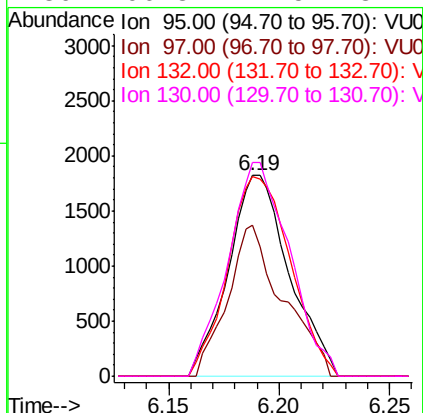
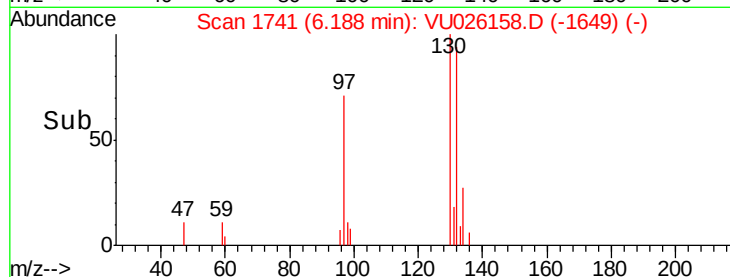
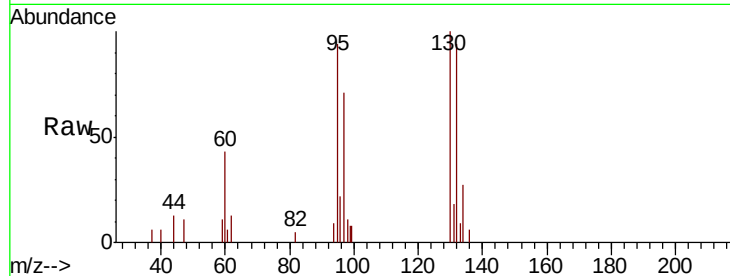
#34
 Trichloroethene
 Concen: 1.84 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	95	Resp	3509
Ion	Ratio	Lower	Upper
95	100		
97	75.3	45.7	84.9
132	99.6	68.8	127.8
130	106.3	71.5	132.7

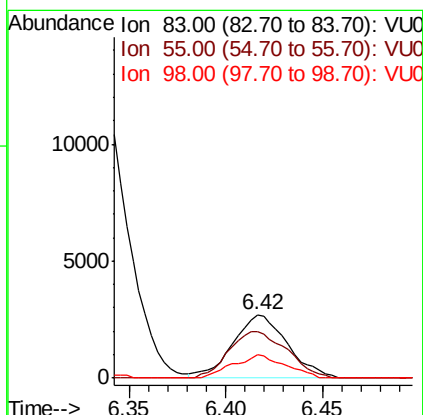
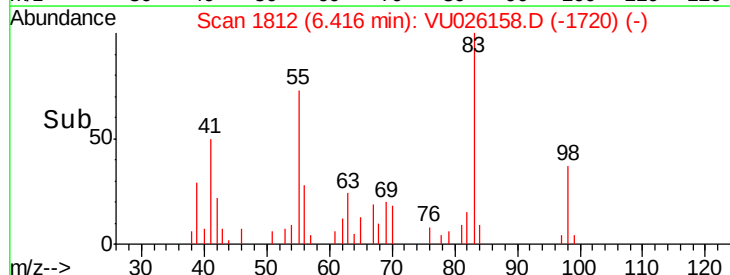
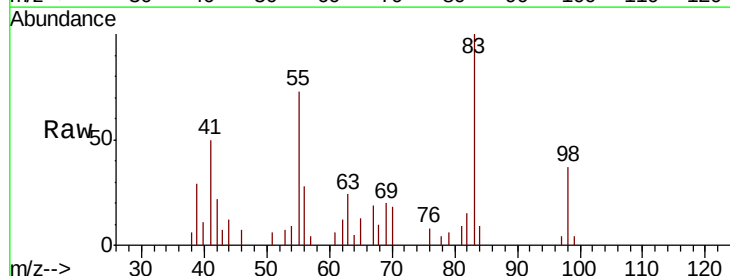
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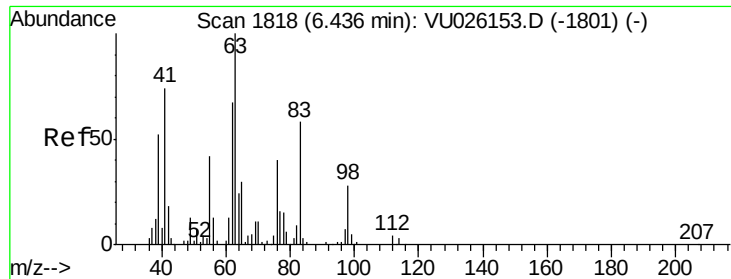
MMDadoda
 8/16/2018 4:20:20 PM



#35
 Methylcyclohexane
 Concen: 1.85 ug/L
 RT: 6.42 min Scan# 1812
 Delta R.T. -0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Tgt Ion	83	Resp	5286
Ion	Ratio	Lower	Upper
83	100		
55	78.0	61.0	91.6
98	35.1	37.6	56.4#





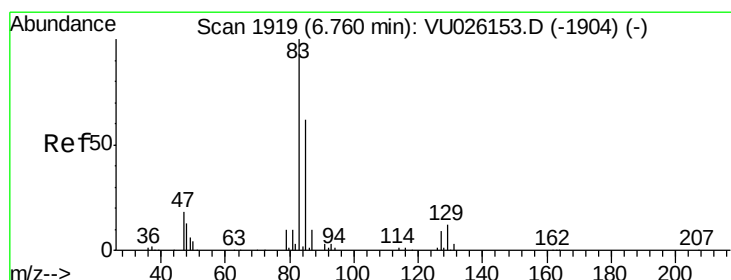
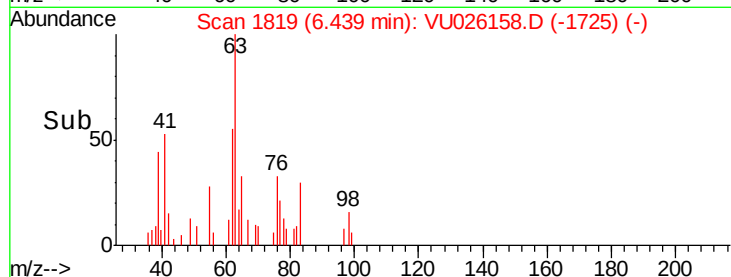
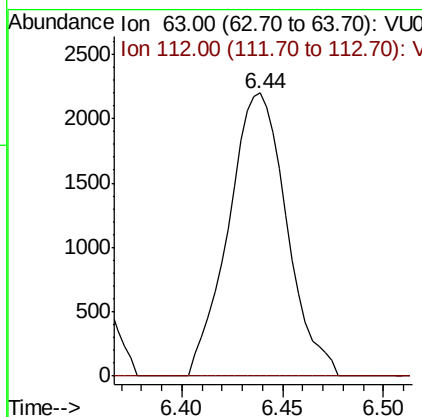
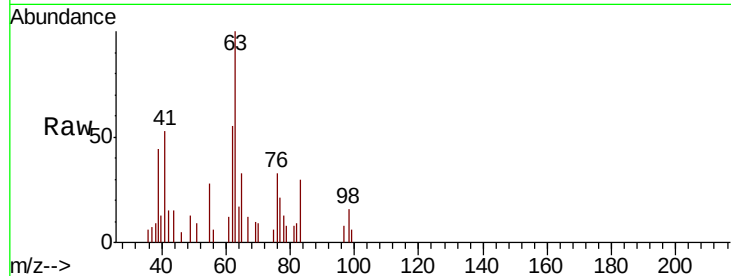
#37
 1,2-Dichloropropane
 Concen: 2.17 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion: 63 Resp: 4430
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#

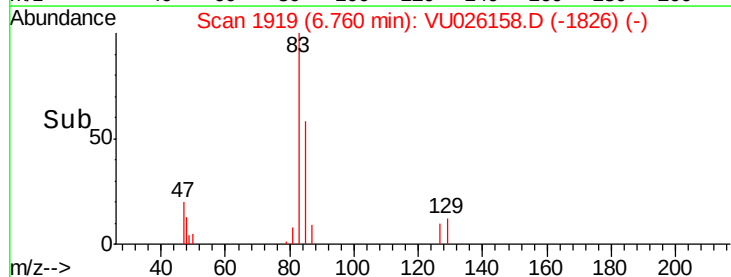
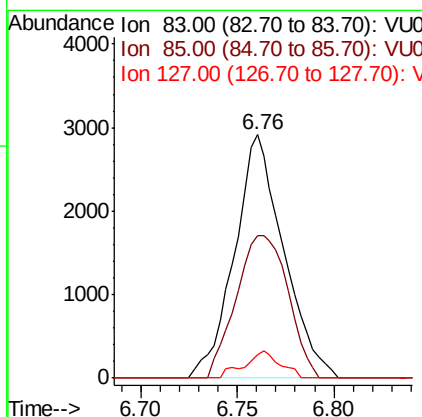
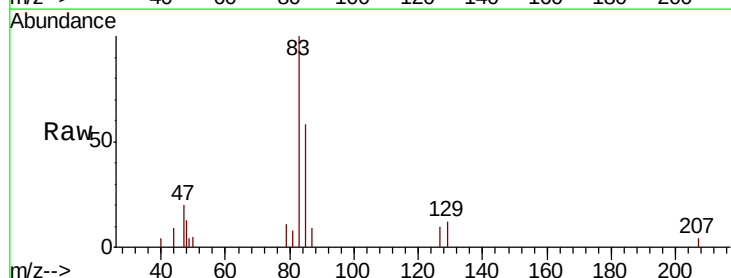
Manual Integrations
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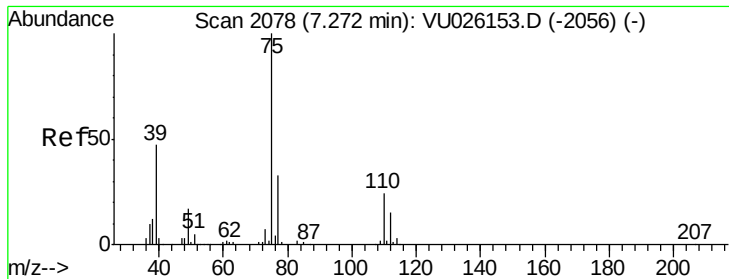
MMDadoda
 8/16/2018 4:20:20 PM



#38
 Bromodichloromethane
 Concen: 1.90 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. -0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Tgt Ion: 83 Resp: 5147
 Ion Ratio Lower Upper
 83 100
 85 58.4 46.0 85.4
 127 9.8 7.5 11.3





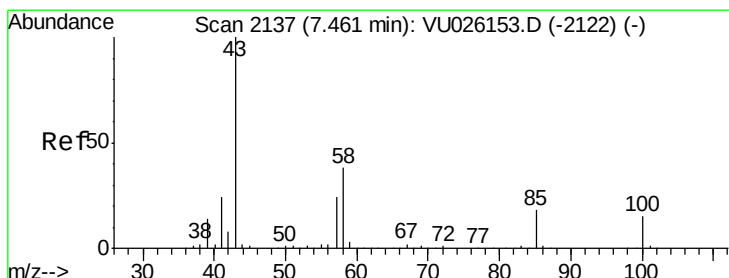
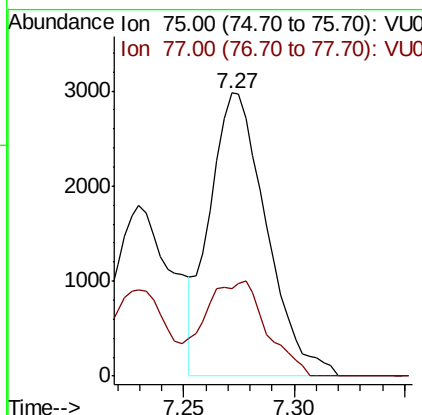
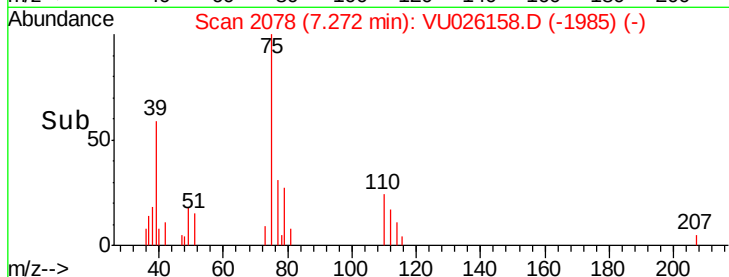
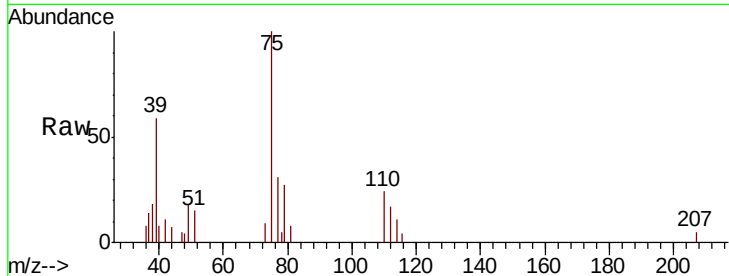
#39
 cis-1,3-Dichloropropene
 Concen: 1.75 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion: 75 Resp: 5303
 Ion Ratio Lower Upper
 75 100
 77 31.0 22.2 41.2

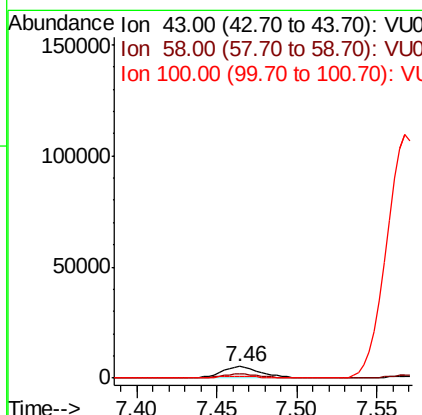
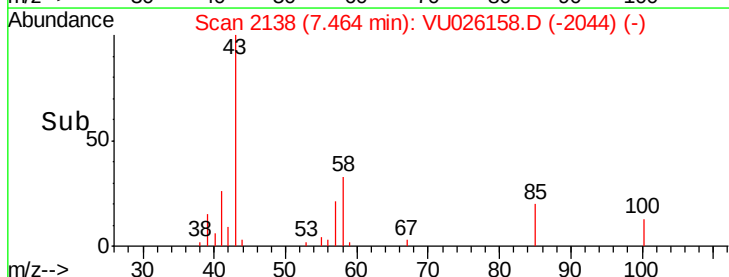
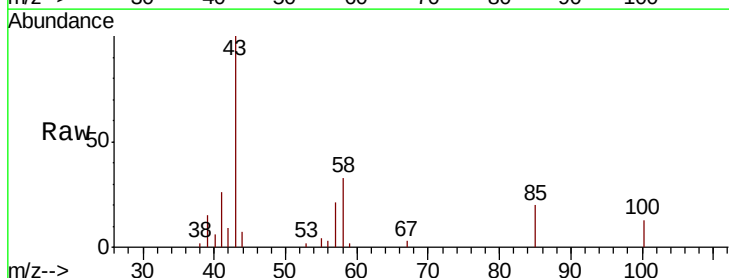
Manual Integrations
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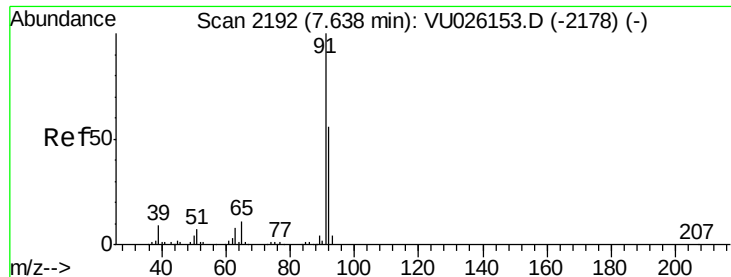
MMDadoda
 8/16/2018 4:20:20 PM



#40
 4-Methyl-2-pentanone
 Concen: 3.64 ug/L
 RT: 7.46 min Scan# 2138
 Delta R.T. 0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Tgt Ion: 43 Resp: 9220
 Ion Ratio Lower Upper
 43 100
 58 33.6 31.8 47.8
 100 14.7 12.2 18.2





#42

Toluene

Concen: 1.82 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 14178

Ion Ratio Lower Upper

91 100

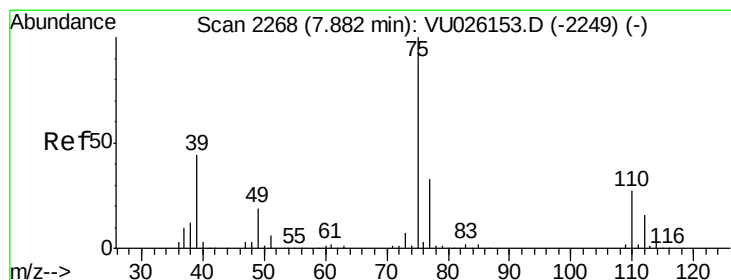
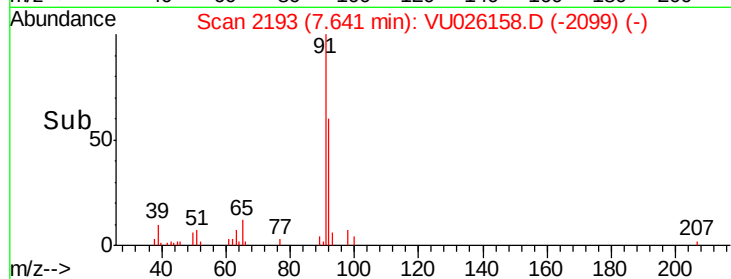
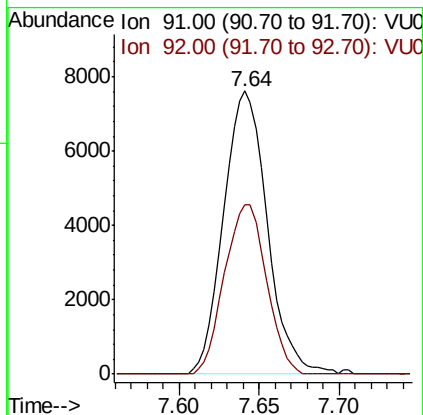
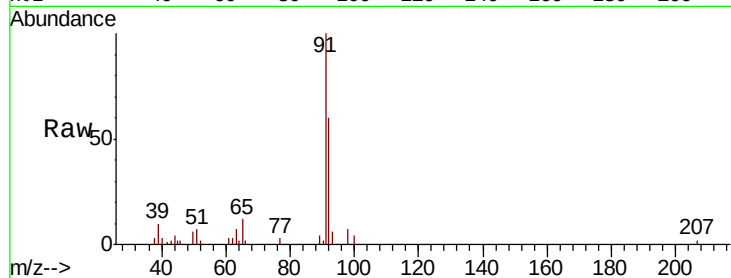
92 60.0 40.0 74.4

Manual Integrations

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MMDadoda

8/16/2018 4:20:20 PM



#44

trans-1,3-Dichloropropene

Concen: 2.02 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU026158.D

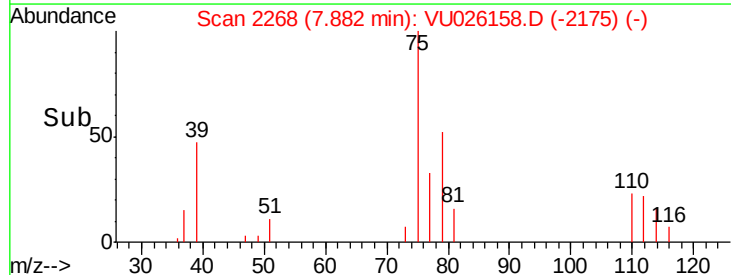
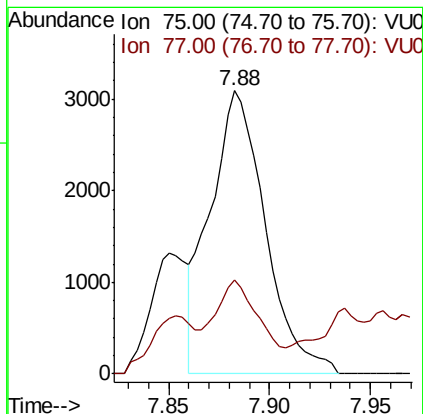
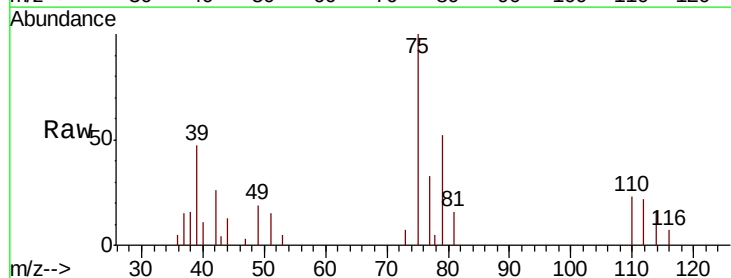
Acq: 15 Aug 2018 19:59

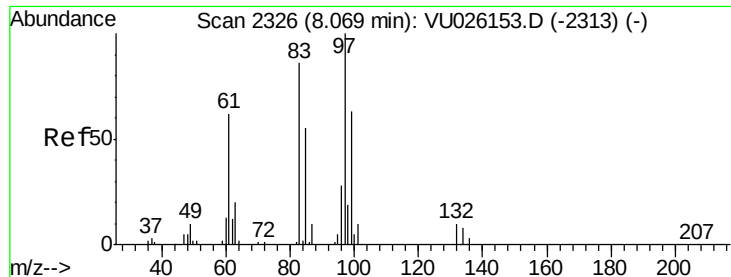
Tgt Ion: 75 Resp: 5895

Ion Ratio Lower Upper

75 100

77 33.1 22.0 41.0





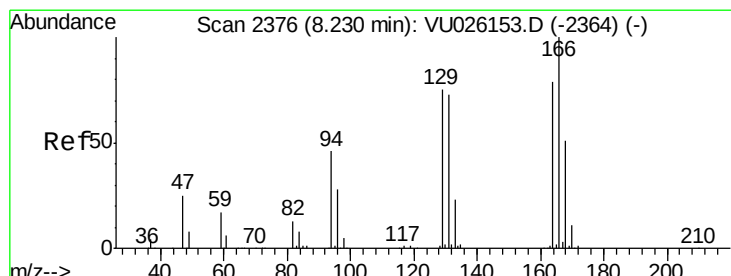
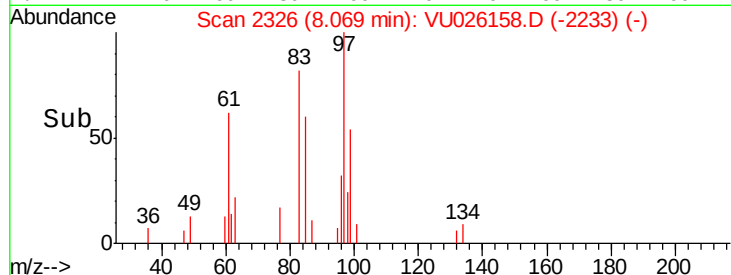
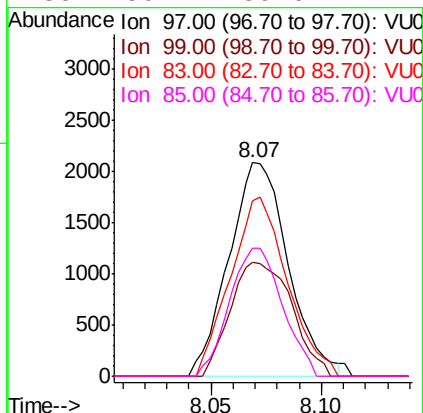
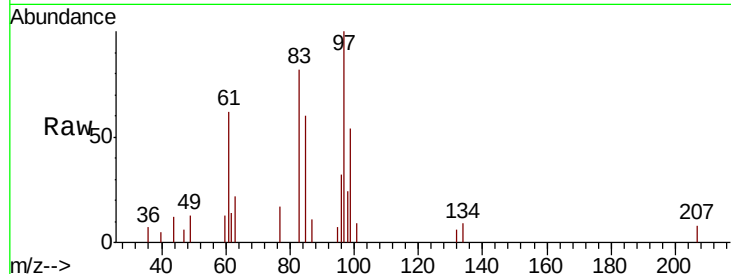
#45
 1,1,2-Trichloroethane
 Concen: 2.00 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion:	97	Resp:	3878
Ion	Ratio	Lower	Upper
97	100		
99	53.5	43.3	80.5
83	82.2	58.4	108.6
85	59.7	39.0	72.4

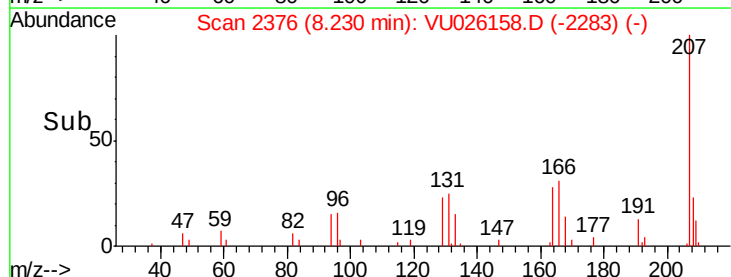
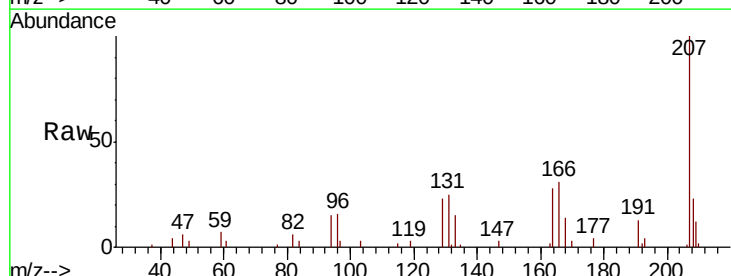
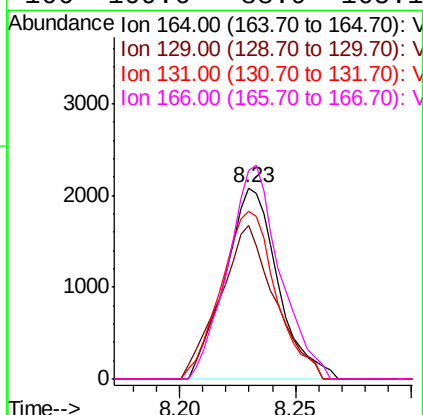
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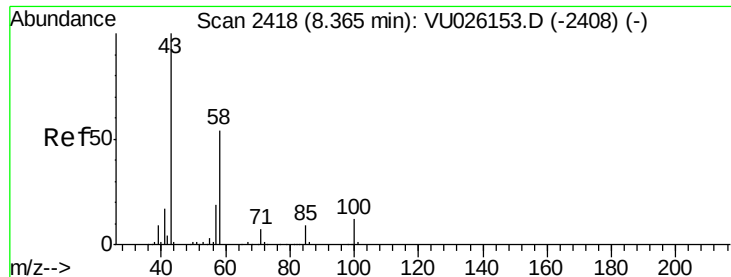
MMDadoda
 8/16/2018 4:20:20 PM



#46
 Tetrachloroethene
 Concen: 2.01 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Tgt Ion:	164	Resp:	3302
Ion	Ratio	Lower	Upper
164	100		
129	80.3	65.7	121.9
131	87.7	62.0	115.2
166	109.6	88.9	165.1





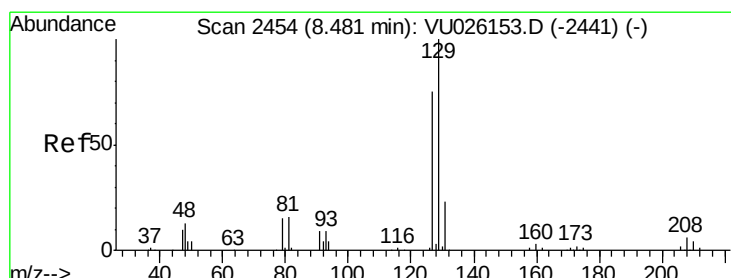
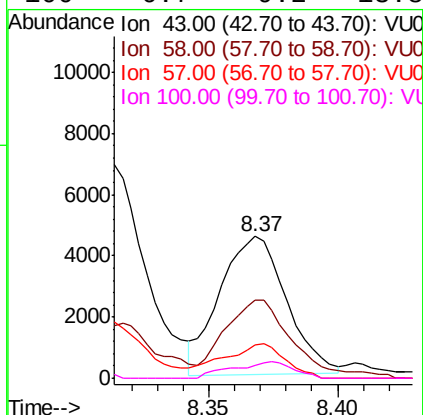
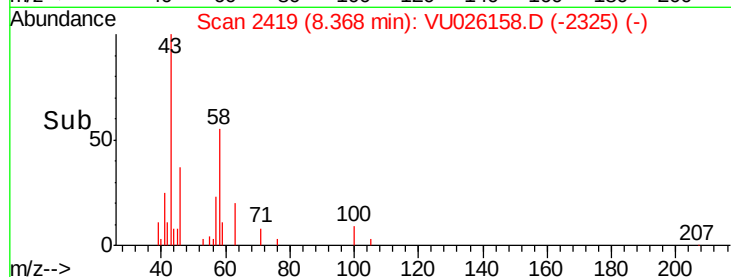
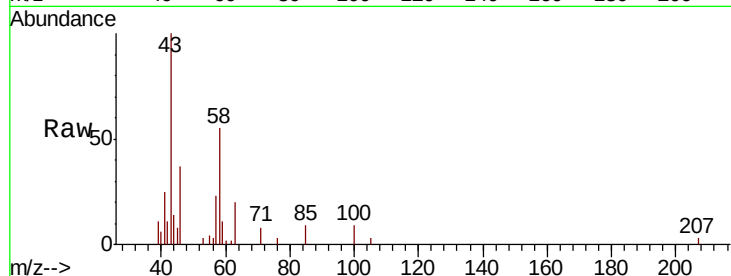
#48
2-Hexanone
Concen: 4.09 ug/L
RT: 8.37 min Scan# 2419
Delta R.T. 0.00 min
Lab File: VU026158.D
Acq: 15 Aug 2018 19:59

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.1	42.9	64.3
57	24.1	15.1	22.7
100	6.7	9.2	13.8

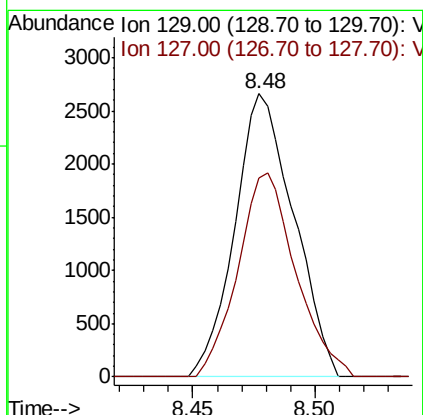
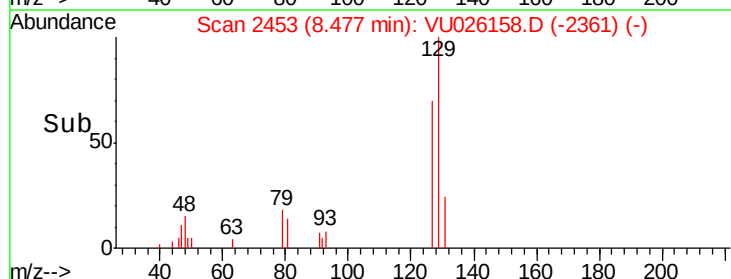
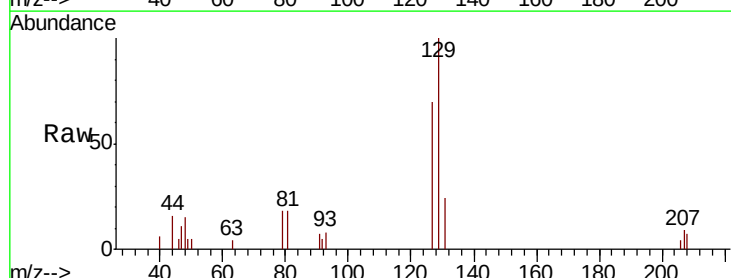
Manual Integrations
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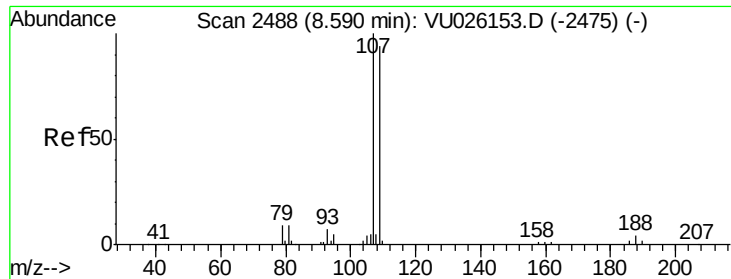
MMDadoda
8/16/2018 4:20:20 PM



#49
Dibromochloromethane
Concen: 1.91 ug/L
RT: 8.48 min Scan# 2453
Delta R.T. -0.00 min
Lab File: VU026158.D
Acq: 15 Aug 2018 19:59

Tgt Ion	Ratio	Lower	Upper
129	100		
127	70.4	54.6	101.4





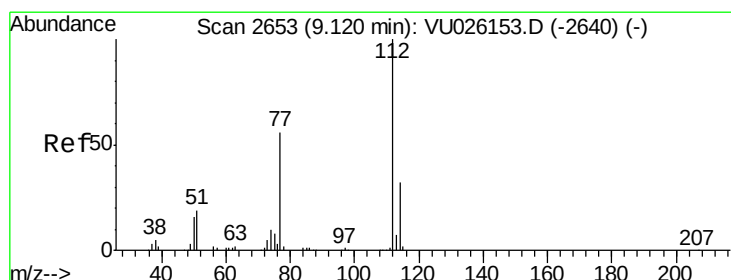
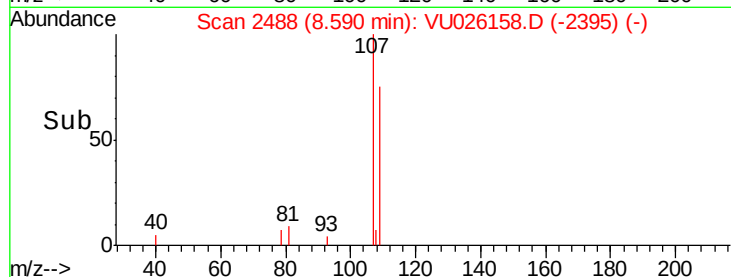
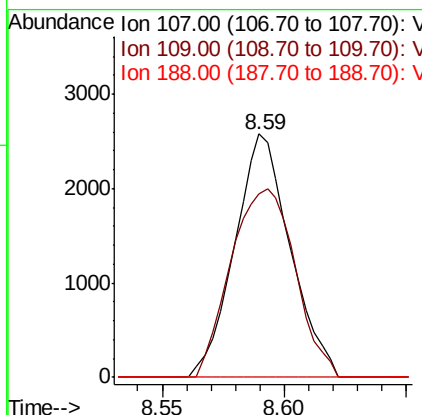
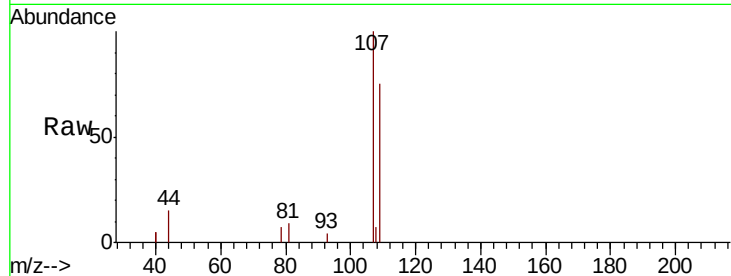
#50
1,2-Dibromoethane
Concen: 2.02 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. -0.00 min
Lab File: VU026158.D
Acq: 15 Aug 2018 19:59

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Resp	Lower	Upper
107	100	4075		
109	75.4	66.1	122.7	
188	0.0	3.2	4.8#	

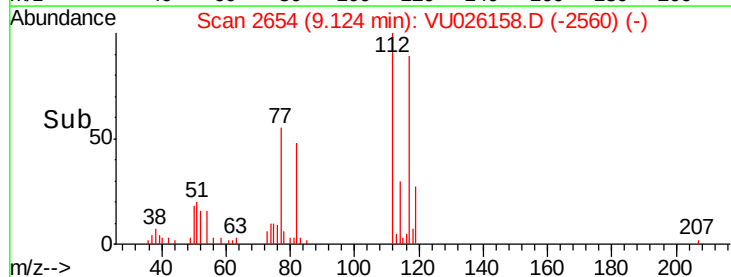
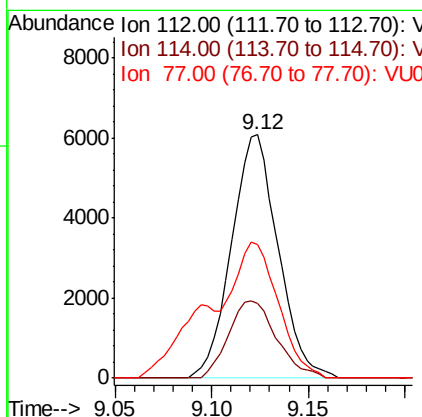
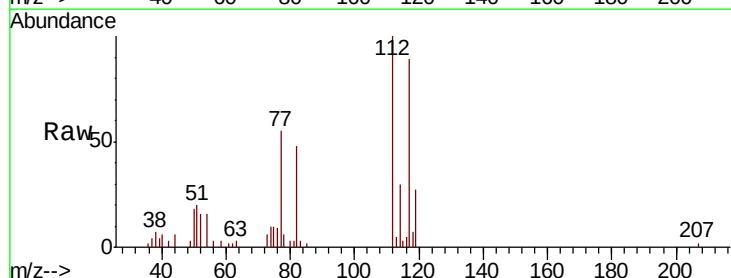
Manual Integrations
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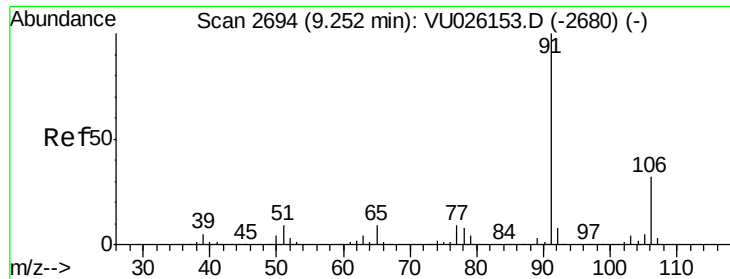
MMDadoda
8/16/2018 4:20:20 PM



#51
Chlorobenzene
Concen: 1.92 ug/L
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU026158.D
Acq: 15 Aug 2018 19:59

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	10186		
114	30.5	22.5	41.9	
77	54.9	45.0	67.4	





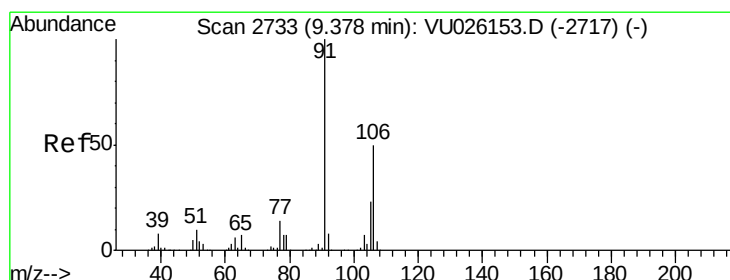
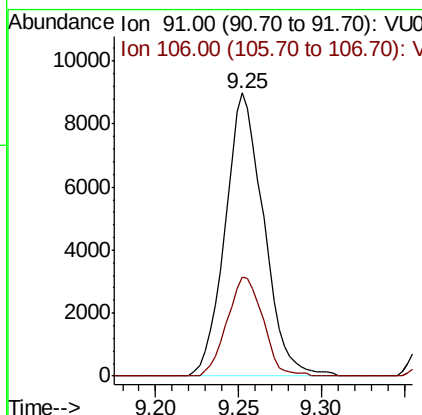
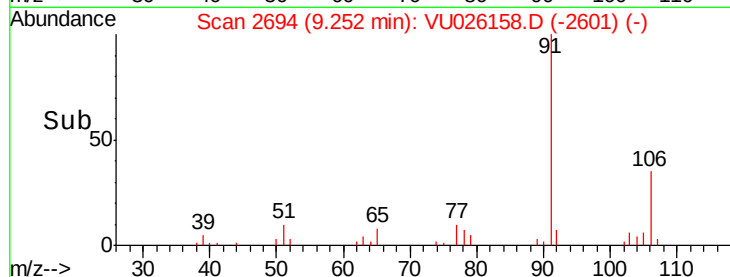
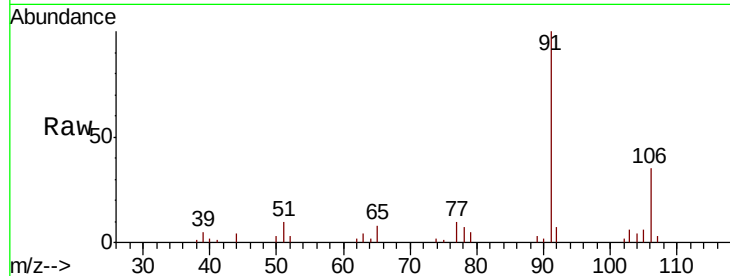
#52
Ethylbenzene
Concen: 1.72 ug/L
RT: 9.25 min Scan# 2694
Delta R.T. -0.00 min
Lab File: VU026158.D
Acq: 15 Aug 2018 19:59

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion: 91 Resp: 14530
Ion Ratio Lower Upper
91 100
106 34.8 22.3 41.5

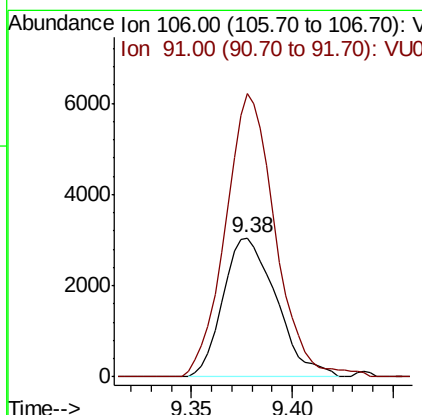
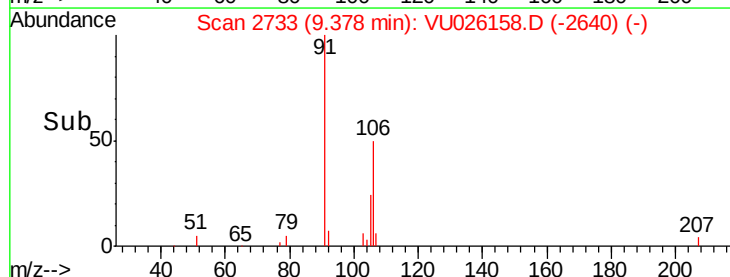
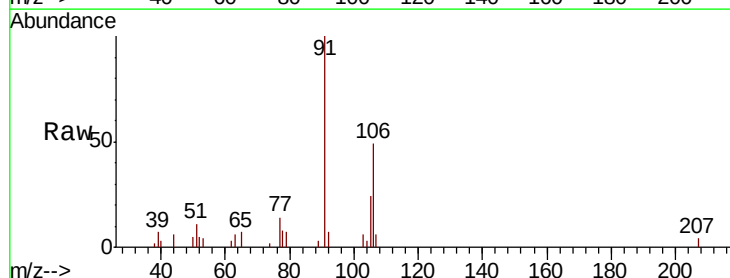
Manual Integrations
APPROVED

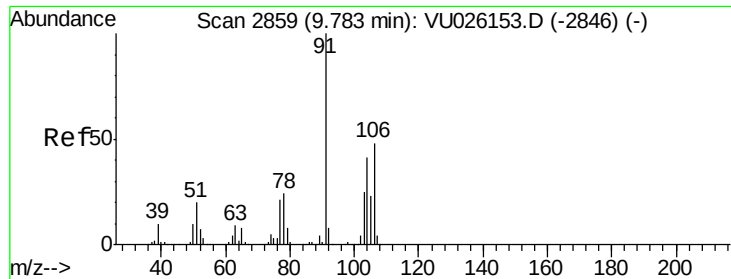
MMDadoda
8/16/2018 4:20:20 PM



#53
m,p-Xylene
Concen: 1.72 ug/L
RT: 9.38 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU026158.D
Acq: 15 Aug 2018 19:59

Tgt Ion: 106 Resp: 5629
Ion Ratio Lower Upper
106 100
91 204.0 139.2 258.4





#54

o-xylene

Concen: 1.44 ug/L

RT: 9.78 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion:106 Resp: 4675

Ion Ratio Lower Upper

106 100

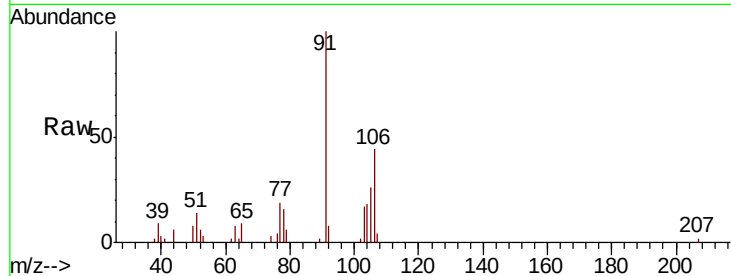
91 228.6 148.0 274.8

Manual Integrations

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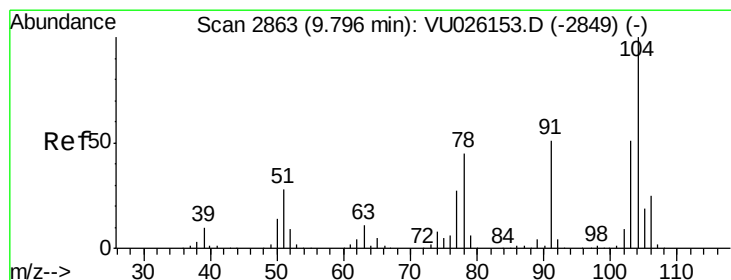
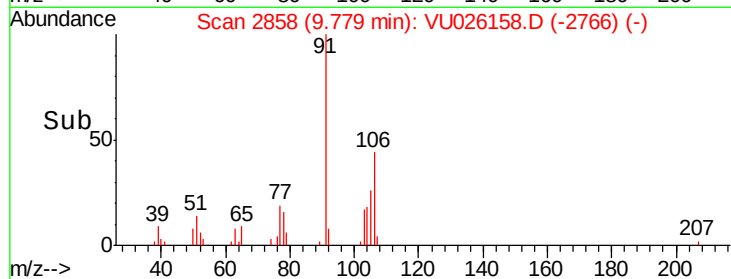
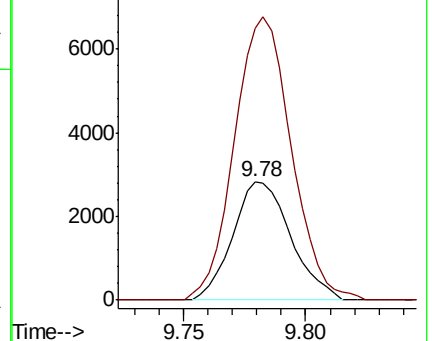
MMDadoda

8/16/2018 4:20:20 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.33 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU026158.D

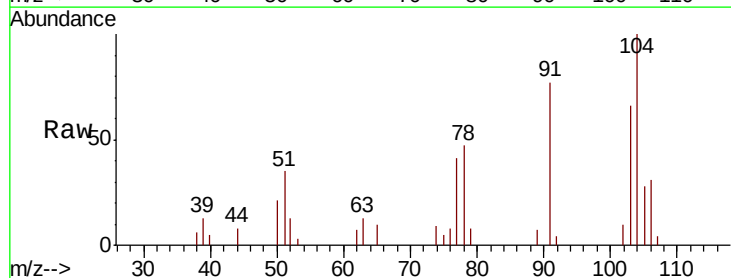
Acq: 15 Aug 2018 19:59

Tgt Ion:104 Resp: 7189

Ion Ratio Lower Upper

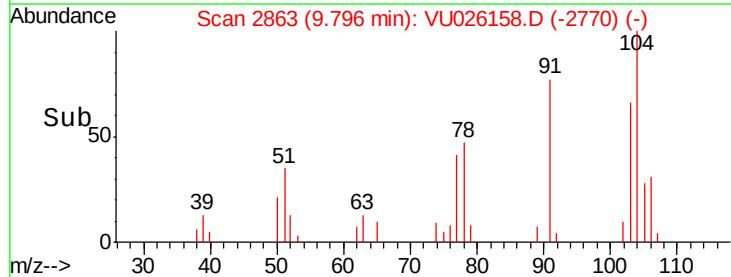
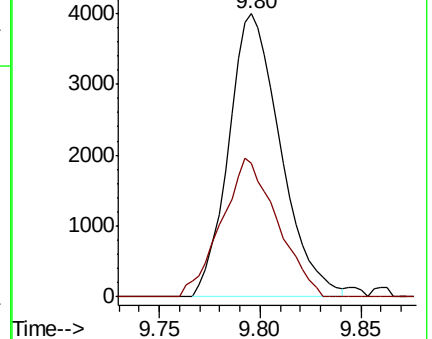
104 100

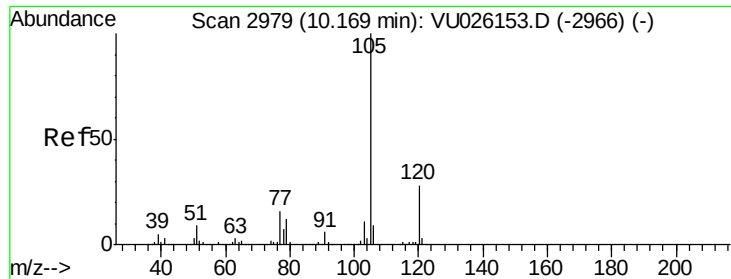
78 47.0 30.9 57.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.51 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

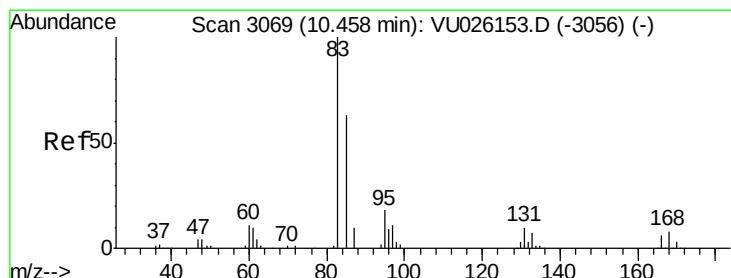
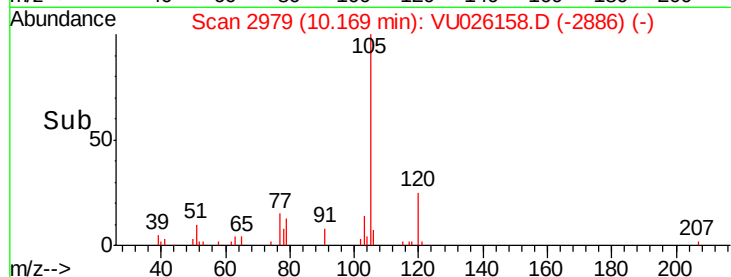
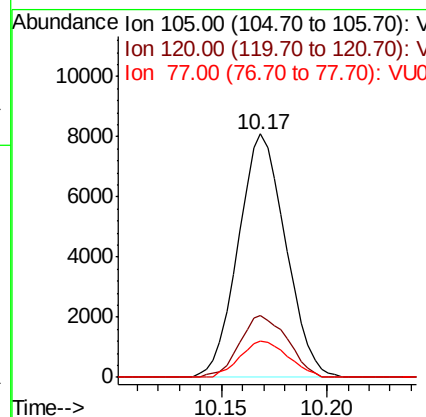
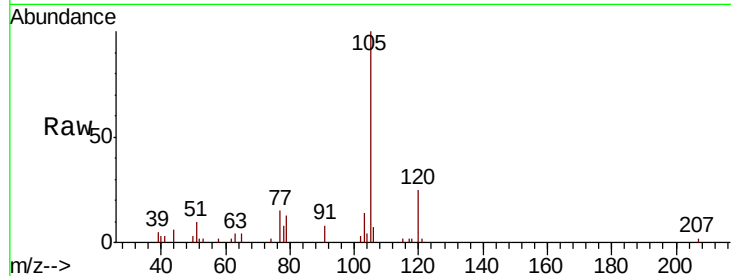
ClientSampled :

MDL03

Tot Ion:	105	Resp:	12629
Ion Ratio	Lower	Upper	
105	100		
120	25.6	21.5	32.3
77	15.0	12.3	18.5

Manual Integrations
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MMDadoda
8/16/2018 4:20:20 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 2.16 ug/L

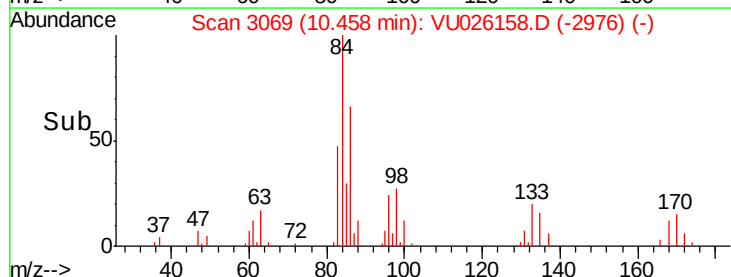
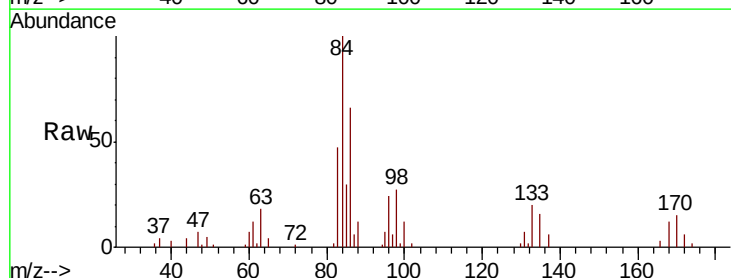
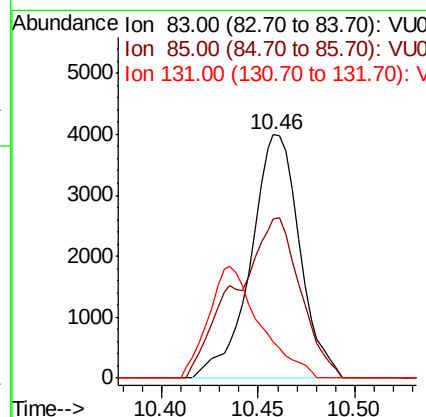
RT: 10.46 min Scan# 3069

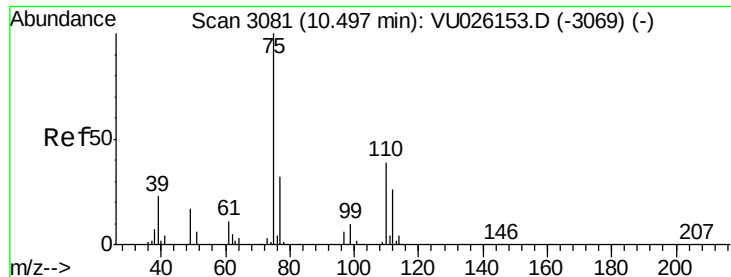
Delta R.T. -0.00 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Tgt Ion:	83	Resp:	7008
Ion Ratio	Lower	Upper	
83	100		
85	65.1	45.0	83.6
131	14.8	8.4	12.6#





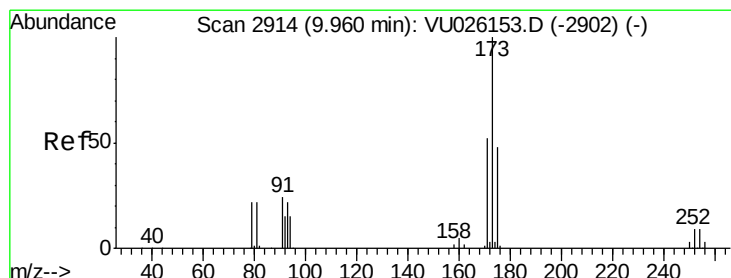
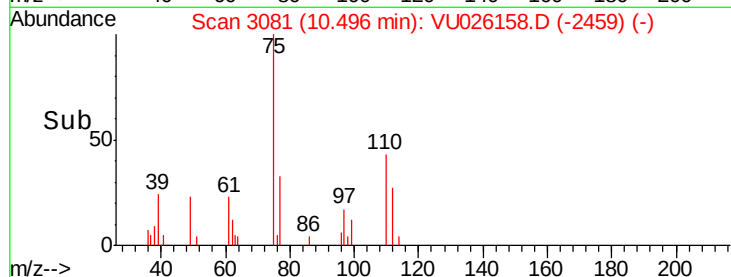
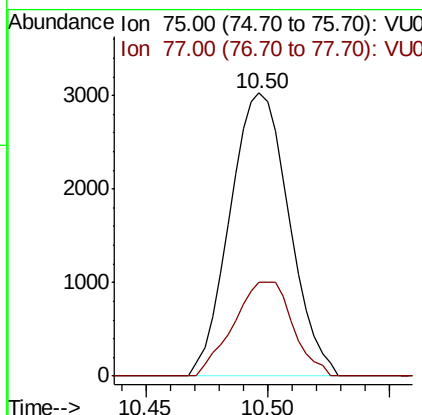
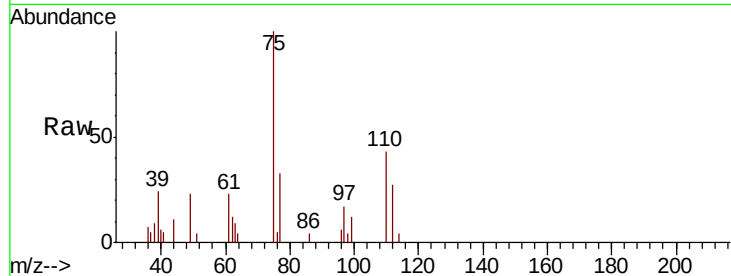
#59
 1,2,3-Trichloropropane
 Concen: 2.02 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion: 75 Resp: 5097
 Ion Ratio Lower Upper
 75 100
 77 33.2 26.1 39.1

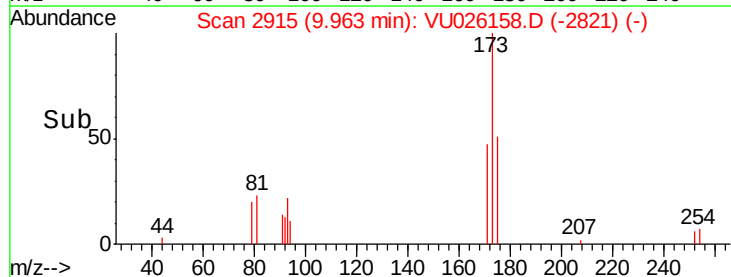
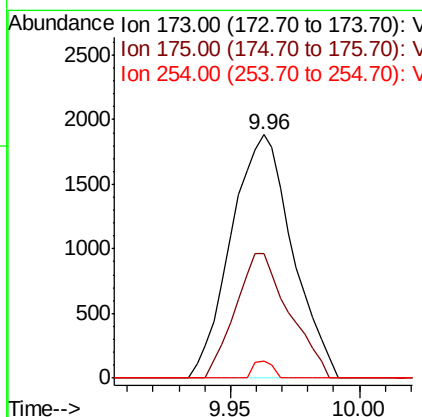
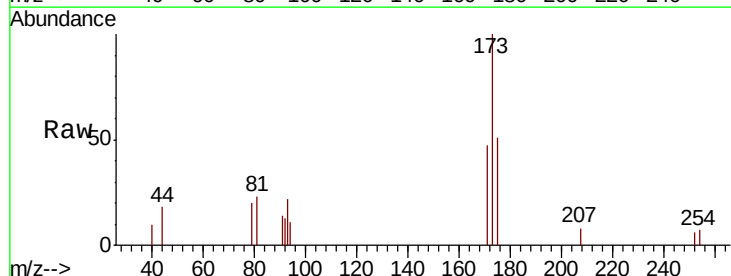
Manual Integrations
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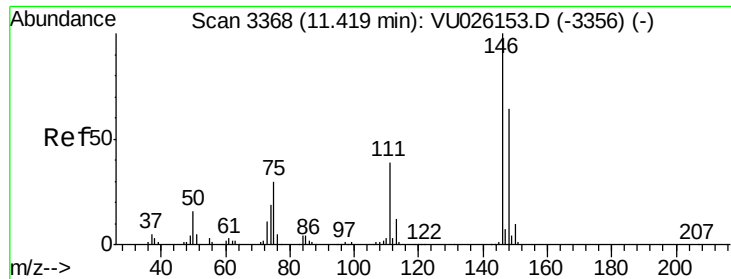
MMDadoda
 8/16/2018 4:20:20 PM



#61
 Bromoform
 Concen: 2.05 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Tgt Ion: 173 Resp: 3108
 Ion Ratio Lower Upper
 173 100
 175 44.9 38.8 58.2
 254 2.2 7.3 10.9#





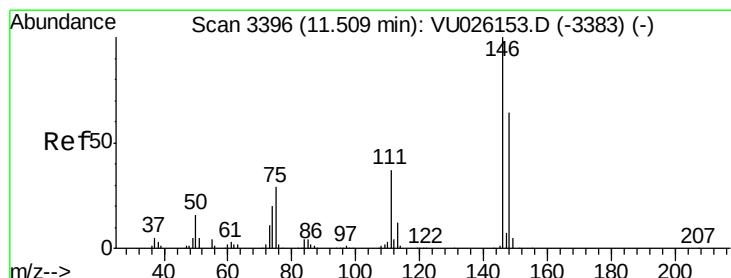
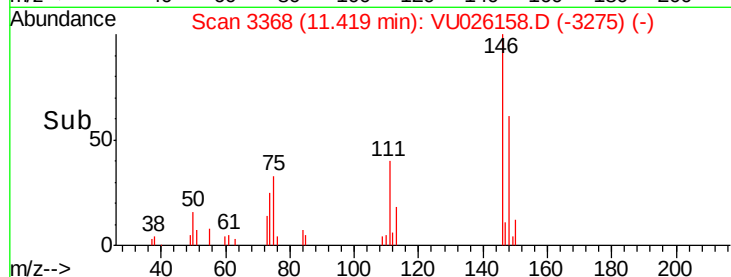
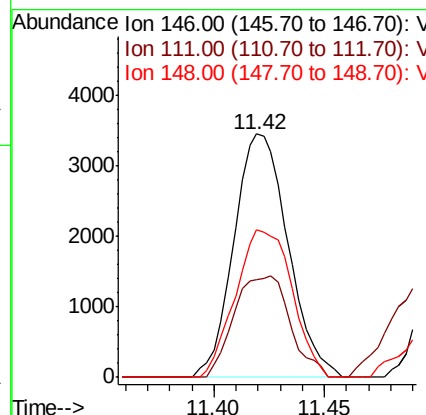
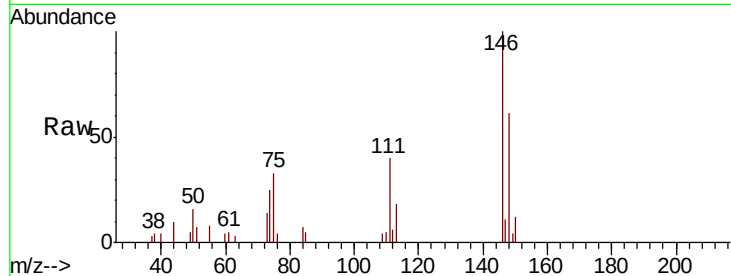
#62
 1,3-Dichlorobenzene
 Concen: 1.69 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	26.7	49.7
148	60.5	44.1	81.9

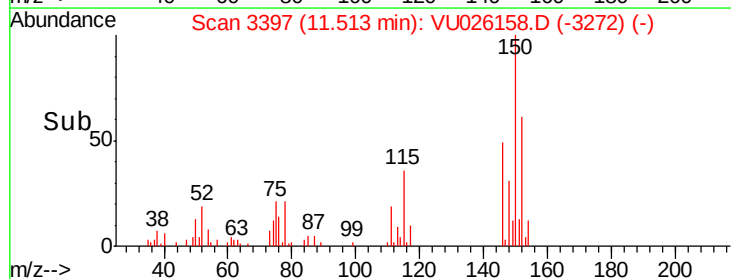
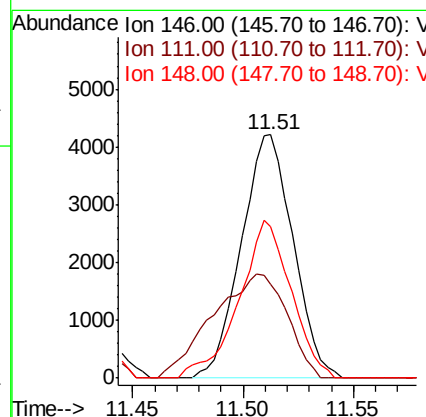
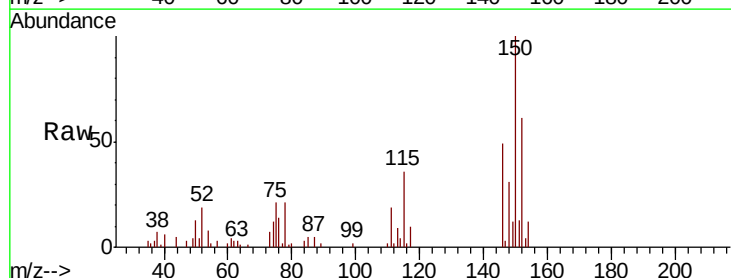
Manual Integrations
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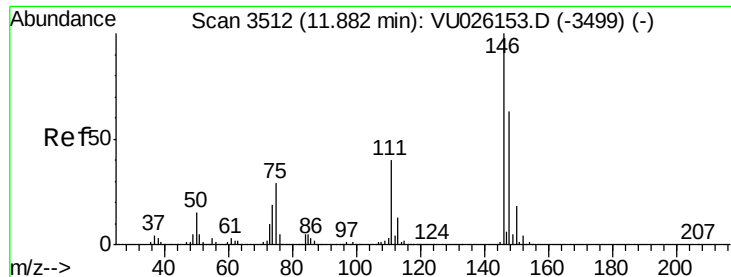
MMDadoda
 8/16/2018 4:20:20 PM



#63
 1,4-Dichlorobenzene
 Concen: 1.92 ug/L
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	27.5	51.1
148	62.0	44.8	83.2





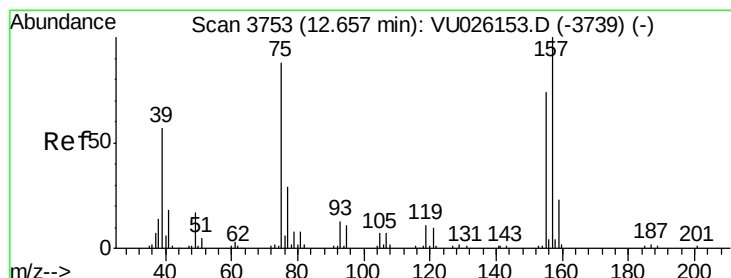
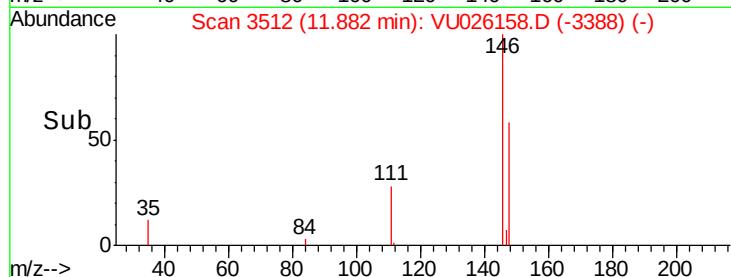
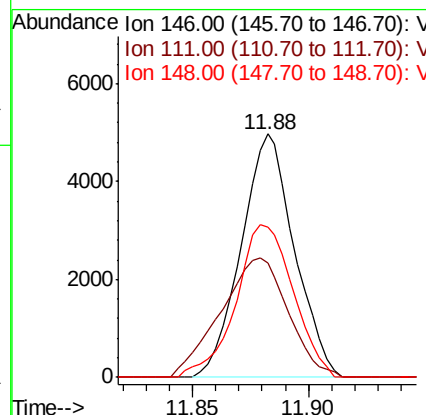
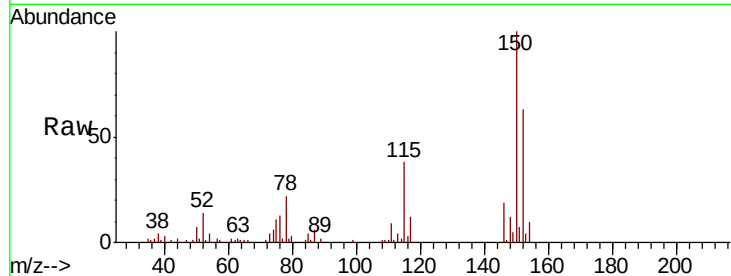
#65
 1,2-Dichlorobenzene
 Concen: 2.12 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.9	32.7	49.1
148	61.8	51.4	77.2

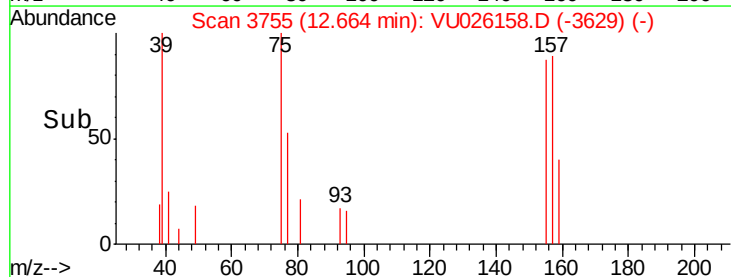
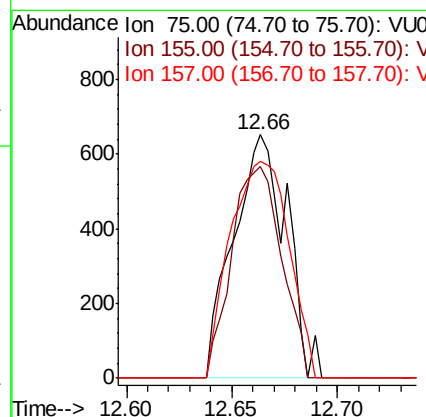
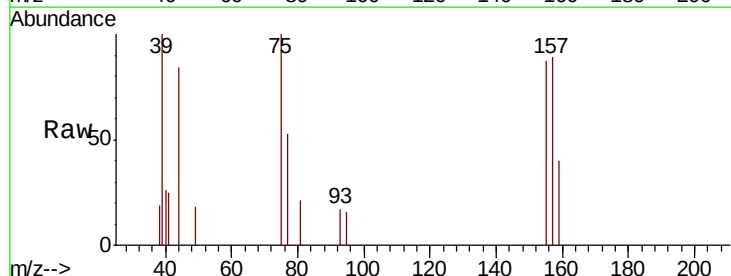
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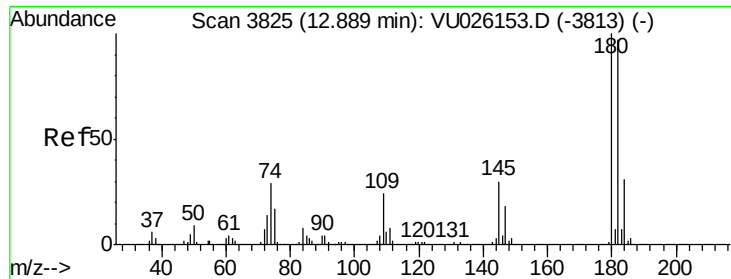
MMDadoda
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.93 ug/L
 RT: 12.66 min Scan# 3755
 Delta R.T. 0.01 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.1	68.2	102.2
157	88.8	90.5	135.7#





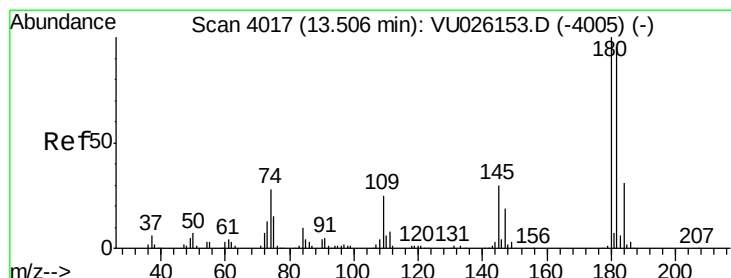
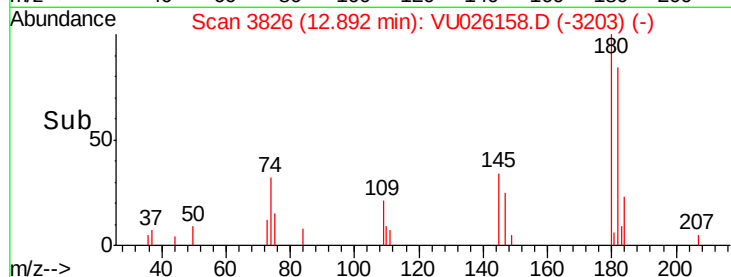
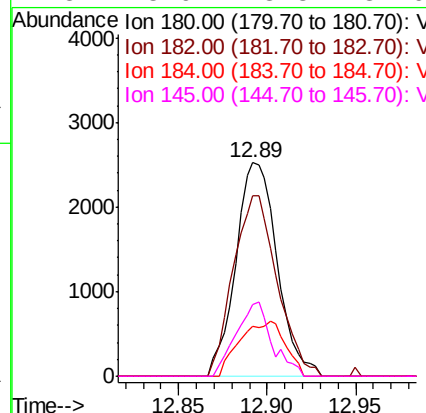
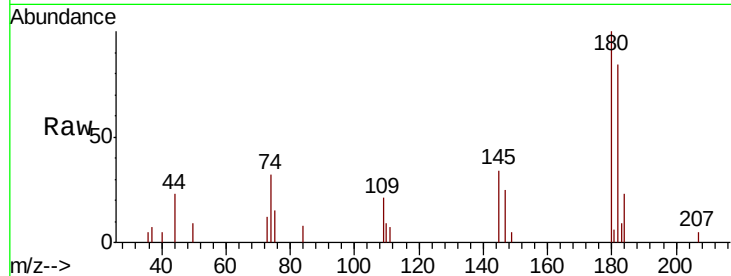
#67
 1,3,5-Trichlorobenzene
 Concen: 1.59 ug/L m
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
180	100		
182	60.9	75.6	113.4#
184	14.2	24.3	36.5#
145	13.9	23.3	34.9#

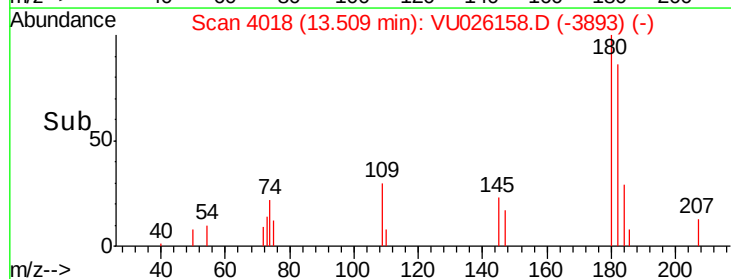
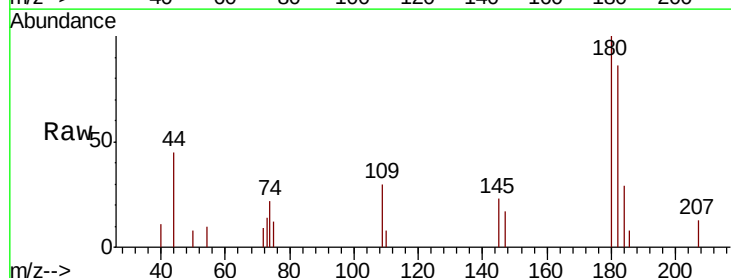
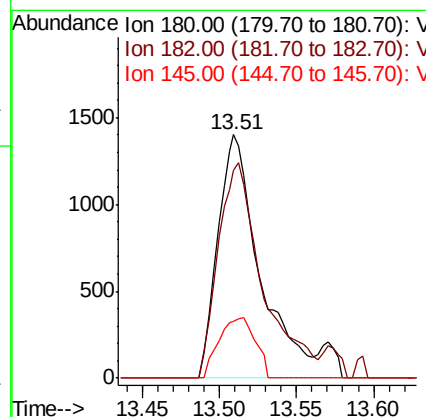
Manual Integrations
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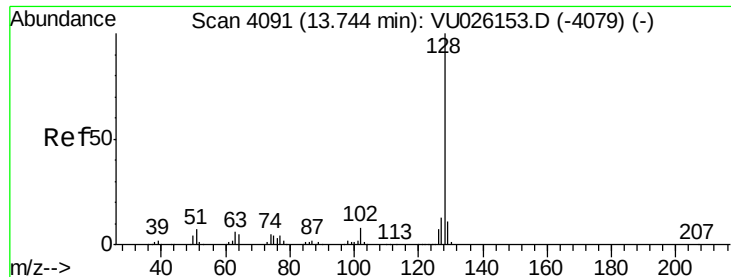
MMDadoda
 8/16/2018 4:20:20 PM



#68
 1,2,4-trichlorobenzene
 Concen: 1.43 ug/L m
 RT: 13.51 min Scan# 4018
 Delta R.T. 0.00 min
 Lab File: VU026158.D
 Acq: 15 Aug 2018 19:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.2	76.8	115.2
145	20.4	23.8	35.6#





#69

Naphthalene

Concen: 1.32 ug/L m

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Instrument :

MSVOA_U

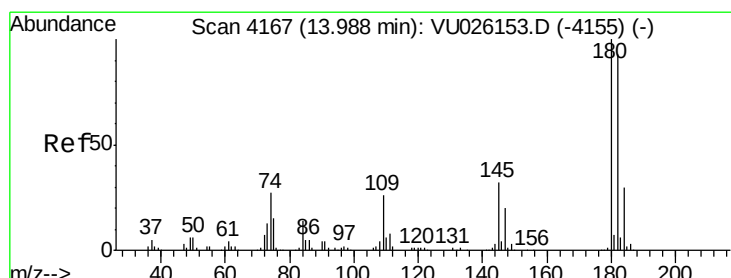
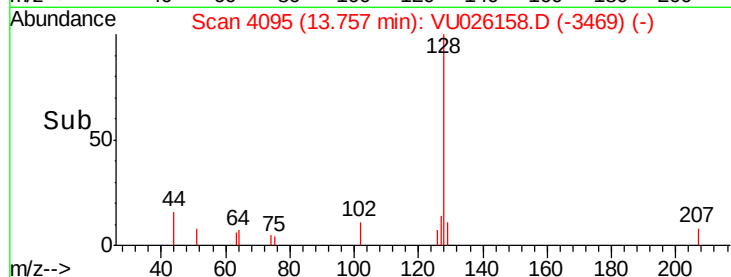
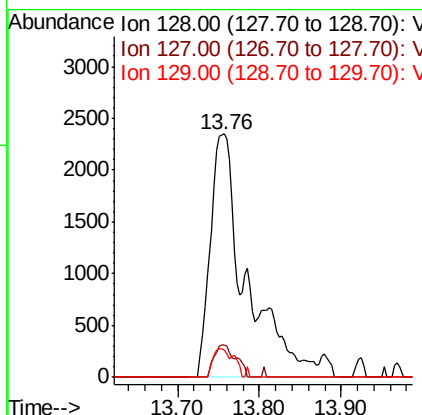
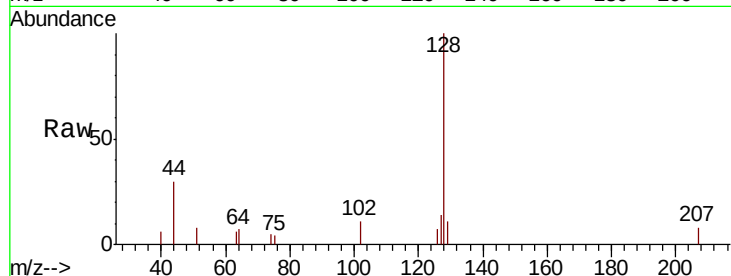
ClientSampled :

MDL03

Tot Ion:	128	Resp:	7307
Ion Ratio	Lower	Upper	
128	100		
127	6.4	10.3	15.5#
129	4.8	8.6	13.0#

Manual Integrations
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#70

1,2,3-Trichlorobenzene

Concen: 1.37 ug/L

RT: 13.99 min Scan# 4169

Delta R.T. 0.01 min

Lab File: VU026158.D

Acq: 15 Aug 2018 19:59

Tgt Ion:	180	Resp:	2860
Ion Ratio	Lower	Upper	
180	100		
182	85.4	77.1	115.7
145	15.7	25.1	37.7#

