

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026167.D
 Acq On : 16 Aug 2018 00:02
 Operator : MD/SY
 Sample : MDL05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:30 PM

Quant Time: Aug 16 05:06:53 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	278482	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	261489	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	110020	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	66209	40.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.98%
7) Chloroethane-d5	1.68	69	57977	43.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.26%
11) 1,1-Dichloroethene-d2	2.27	63	106142	33.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.10%
21) 2-Butanone-d5	4.18	46	128419	102.35	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.35%
24) Chloroform-d	4.65	84	163179	44.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.10%
26) 1,2-Dichloroethane-d4	5.31	65	111065	46.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.66%
32) Benzene-d6	5.35	84	312560	46.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.72%
36) 1,2-Dichloropropane-d6	6.33	67	105363	47.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.08%
41) Toluene-d8	7.57	98	284873	44.15	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.30%
43) trans-1,3-Dichloropropene-	7.85	79	45086	42.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.92%
47) 2-Hexanone-d5	8.31	63	89882	98.98	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.98%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	145322	46.58	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.16%
64) 1,2-Dichlorobenzene-d4	11.86	152	112570	49.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.34%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	5232	2.37	ug/L	99
3) Chloromethane	1.33	50	5441	2.71	ug/L	95
5) Vinyl chloride	1.40	62	5020	2.50	ug/L #	82
6) Bromomethane	1.62	94	2676	2.59	ug/L	89
8) Chloroethane	1.70	64	2757	2.30	ug/L	100
9) Trichlorofluoromethane	1.89	101	7059	2.38	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	4764	2.97	ug/L #	75
12) 1,1-Dichloroethene	2.28	96	4196	2.85	ug/L #	1
13) Acetone	2.32	43	5375	4.68	ug/L	92
14) Carbon disulfide	2.48	76	11995	2.35	ug/L	96
15) Methyl Acetate	2.62	43	5738	2.88	ug/L	97
16) Methylene chloride	2.70	84	4919	2.49	ug/L	86
17) trans-1,2-Dichloroethene	2.98	96	4189	2.40	ug/L	97
18) Methyl tert-butyl Ether	3.00	73	12691	2.29	ug/L	99
19) 1,1-Dichloroethane	3.45	63	8129	2.42	ug/L	98
20) cis-1,2-Dichloroethene	4.23	96	4743	2.42	ug/L	87
22) 2-Butanone	4.27	43	6570	4.59	ug/L #	54

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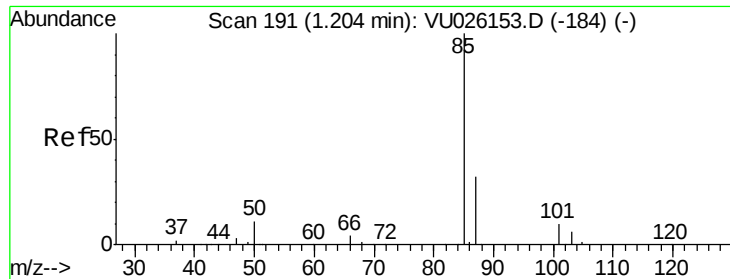
MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.55	128	2450	2.32	ug/L	94
25) Chloroform	4.67	83	10329	2.93	ug/L	100
27) 1,2-Dichloroethane	5.41	62	7210	2.53	ug/L #	92
29) Cyclohexane	5.00	56	5473	2.09	ug/L	96
30) 1,1,1-Trichloroethane	4.92	97	7793	2.49	ug/L	95
31) Carbon tetrachloride	5.14	117	6671	2.36	ug/L	99
33) Benzene	5.39	78	16562	2.34	ug/L	100
34) Trichloroethene	6.19	95	4487	2.43	ug/L	91
35) Methylcyclohexane	6.42	83	5915	2.14	ug/L	95
37) 1,2-Dichloropropane	6.44	63	5218	2.64	ug/L #	87
38) Bromodichloromethane	6.76	83	6461	2.47	ug/L	88
39) cis-1,3-Dichloropropene	7.27	75	6990	2.38	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	10796	4.40	ug/L	97
42) Toluene	7.64	91	16928	2.25	ug/L	87
44) trans-1,3-Dichloropropene	7.89	75	6185m	2.19	ug/L	
45) 1,1,2-Trichloroethane	8.07	97	4524	2.41	ug/L	94
46) Tetrachloroethene	8.23	164	3688	2.32	ug/L	92
48) 2-Hexanone	8.36	43	8835	4.60	ug/L #	93
49) Dibromochloromethane	8.48	129	5141	2.28	ug/L	96
50) 1,2-Dibromoethane	8.59	107	4748	2.44	ug/L	91
51) Chlorobenzene	9.12	112	12350	2.40	ug/L	93
52) Ethylbenzene	9.25	91	15993	1.95	ug/L	99
53) m,p-Xylene	9.38	106	6366	2.02	ug/L	83
54) o-xylene	9.78	106	5815	1.85	ug/L	99
55) Styrene	9.80	104	9402	1.79	ug/L	89
56) Isopropylbenzene	10.17	105	14707	1.82	ug/L	96
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	8393	2.68	ug/L	96
59) 1,2,3-Trichloropropane	10.49	75	5897	2.42	ug/L	94
61) Bromoform	9.96	173	3638	2.53	ug/L #	66
62) 1,3-Dichlorobenzene	11.42	146	7335	2.22	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	8404	2.47	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	9012	2.56	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	1552	2.78	ug/L	88
67) 1,3,5-Trichlorobenzene	12.89	180	5099	2.09	ug/L #	94
68) 1,2,4-trichlorobenzene	13.51	180	2838m	1.54	ug/L	
69) Naphthalene	13.75	128	7914m	1.51	ug/L	
70) 1,2,3-Trichlorobenzene	13.99	180	3303	1.67	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.37 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 85 Resp: 5232

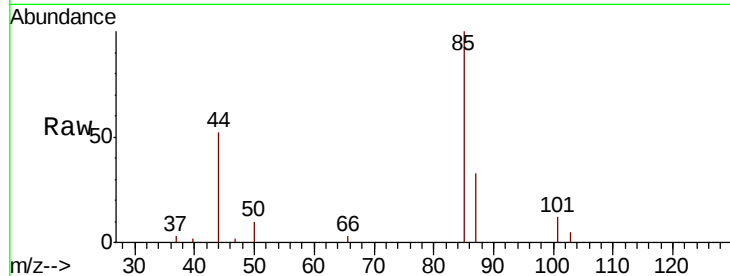
Ion Ratio Lower Upper

85 100

87 33.1 26.1 39.1

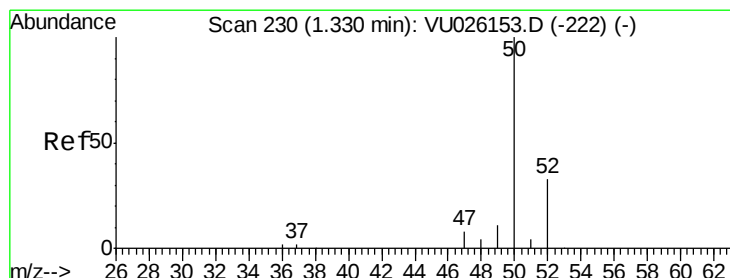
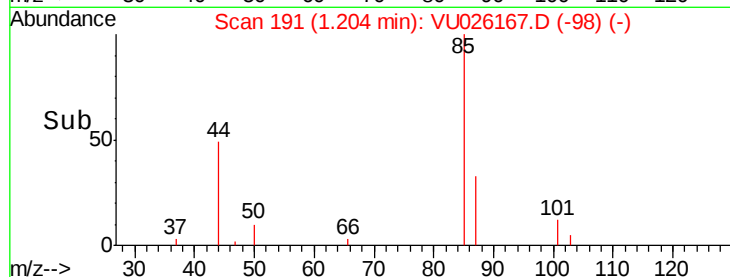
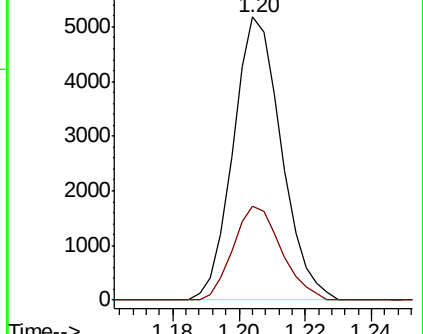
Manual Integrations
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Abundance Ion 85.00 (84.70 to 85.70): VU026153.D (-184) (-)

Ion 87.00 (86.70 to 87.70): VU026153.D (-184) (-)



#3

Chloromethane

Concen: 2.71 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026167.D

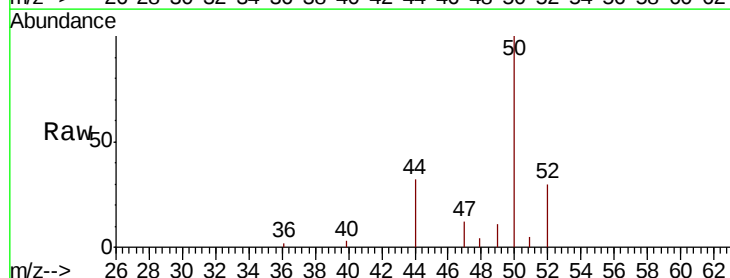
Acq: 16 Aug 2018 00:02

Tgt Ion: 50 Resp: 5441

Ion Ratio Lower Upper

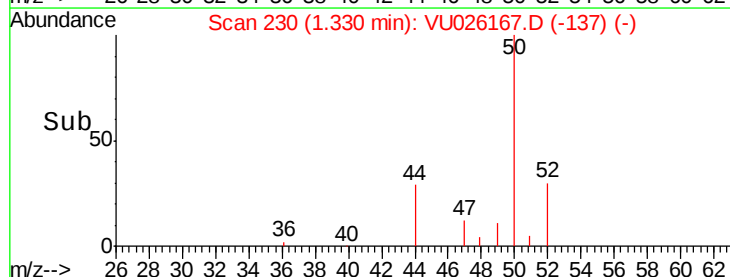
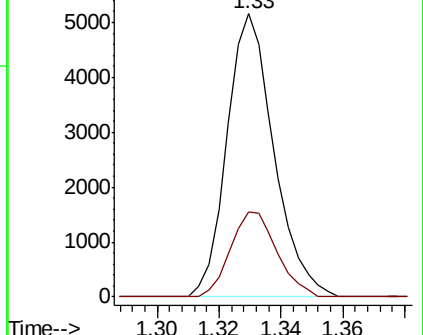
50 100

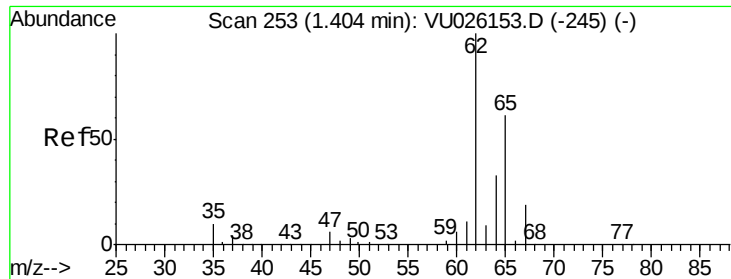
52 29.9 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU026153.D (-222) (-)

Ion 52.00 (51.70 to 52.70): VU026153.D (-222) (-)





#5

Vinyl chloride

Concen: 2.50 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 62 Resp: 5020

Ion Ratio Lower Upper

62 100

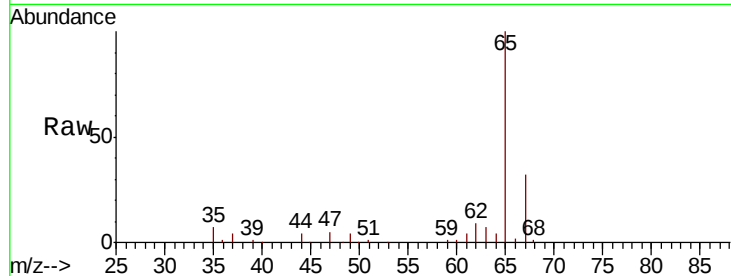
64 43.2 23.0 42.8#

Manual Integrations

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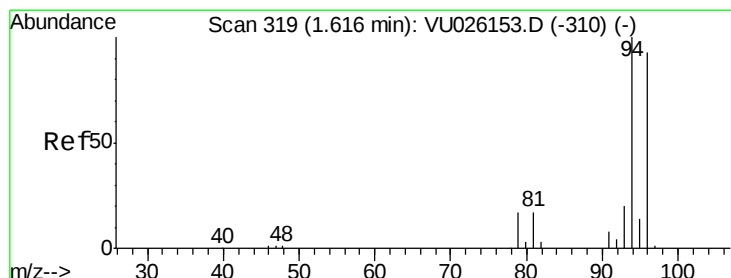
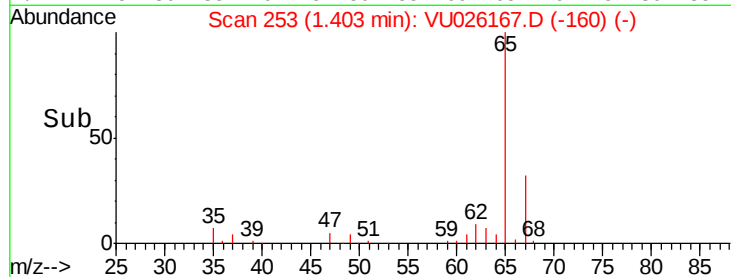
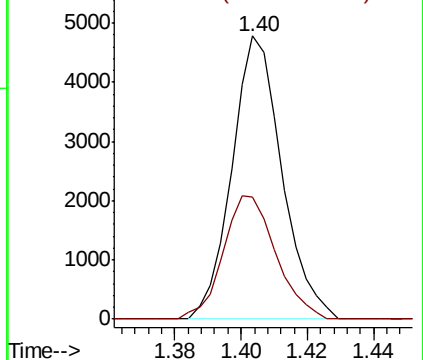
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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.59 ug/L

RT: 1.62 min Scan# 321

Delta R.T. 0.01 min

Lab File: VU026167.D

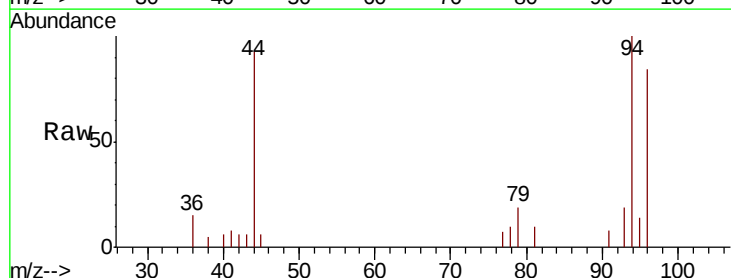
Acq: 16 Aug 2018 00:02

Tgt Ion: 94 Resp: 2676

Ion Ratio Lower Upper

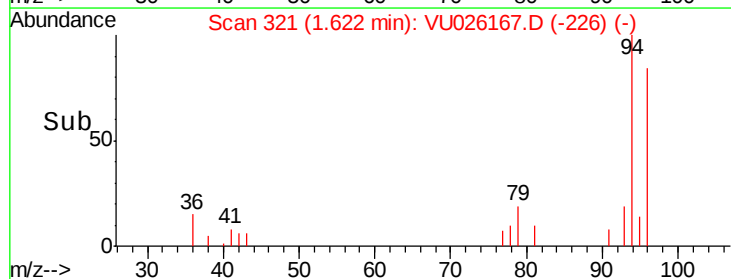
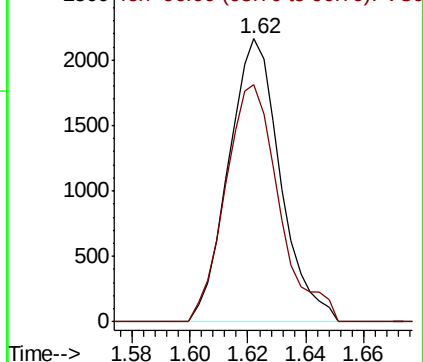
94 100

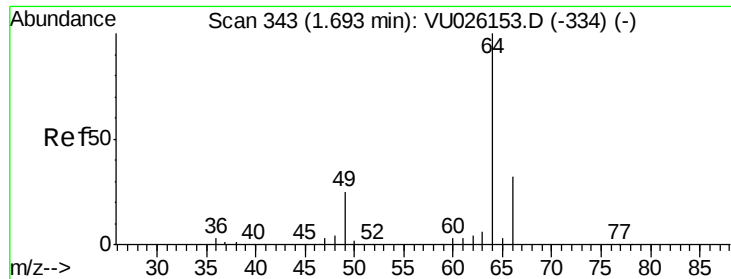
96 84.0 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 2.30 ug/L

RT: 1.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 64 Resp: 2757

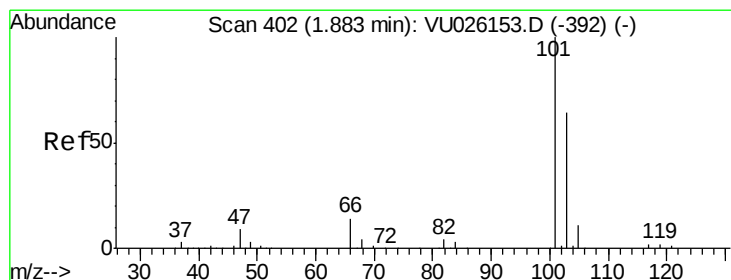
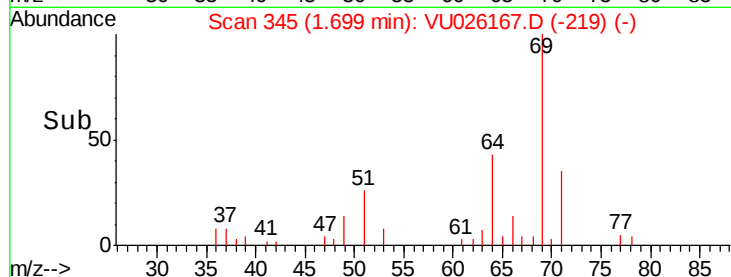
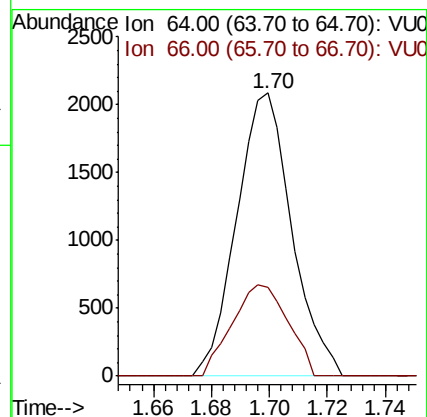
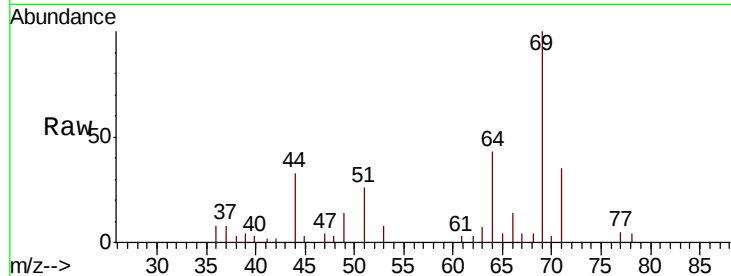
Ion Ratio Lower Upper

64 100

66 31.5 22.2 41.2

Manual Integrations
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#9

Trichlorofluoromethane

Concen: 2.38 ug/L

RT: 1.89 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU026167.D

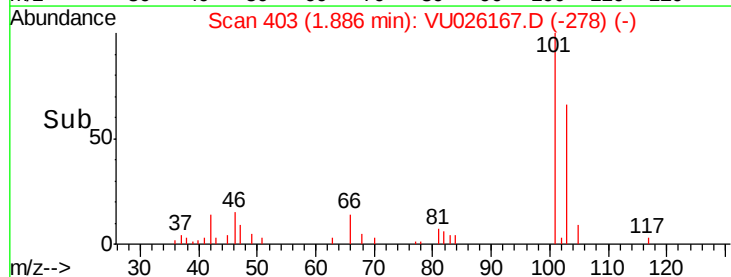
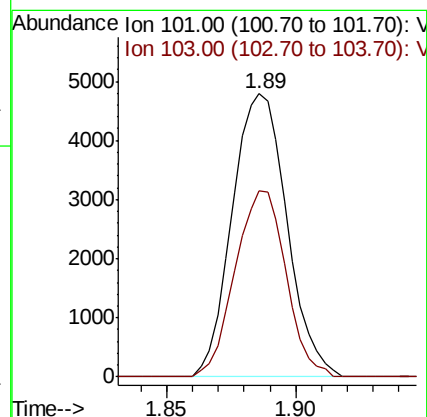
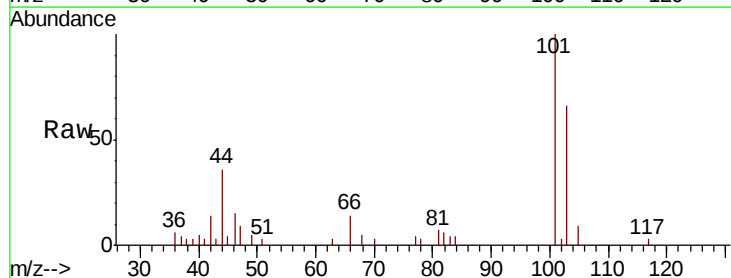
Acq: 16 Aug 2018 00:02

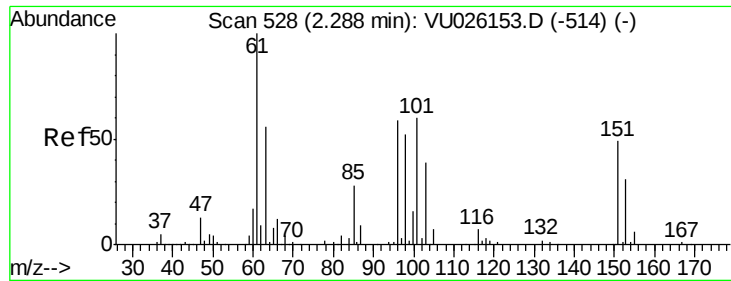
Tgt Ion: 101 Resp: 7059

Ion Ratio Lower Upper

101 100

103 61.0 51.4 77.2





#10

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

Concen: 2.97 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Instrument :

MSVOA_U

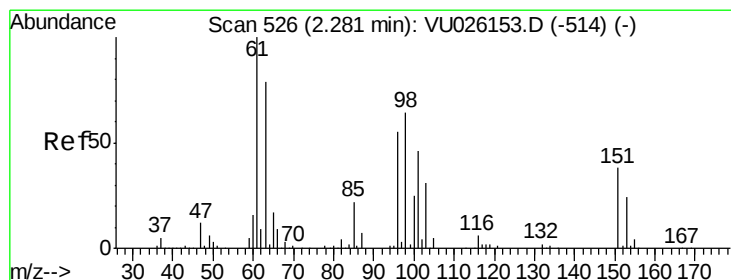
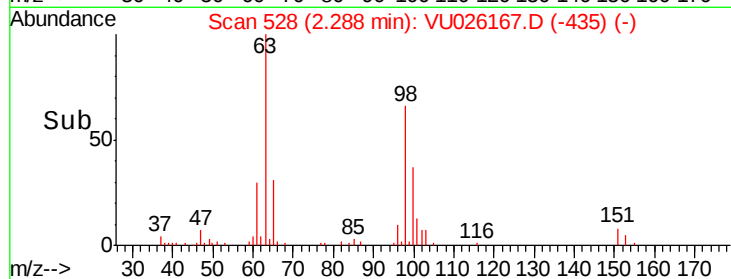
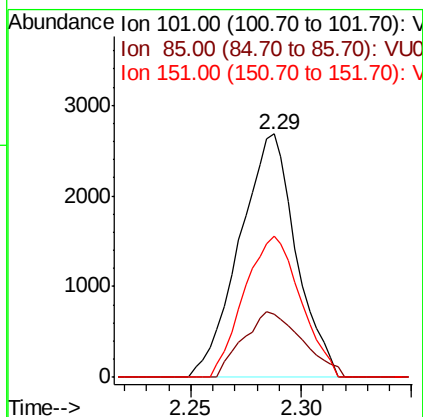
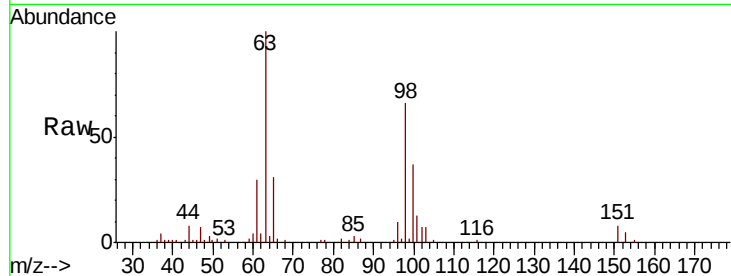
ClientSampleId :

MDL05

Tot Ion:	101	Resp:	4764
Ion Ratio	Lower	Upper	
101	100		
85	28.4	36.6	55.0#
151	58.1	63.8	95.8#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 2.85 ug/L

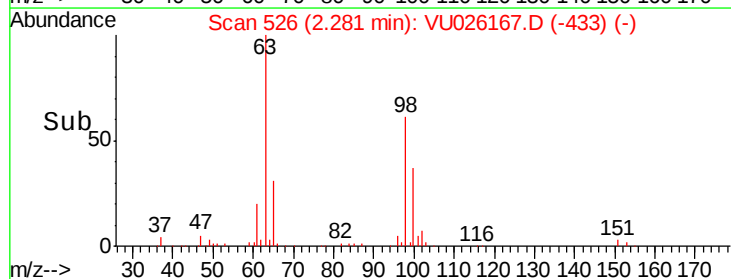
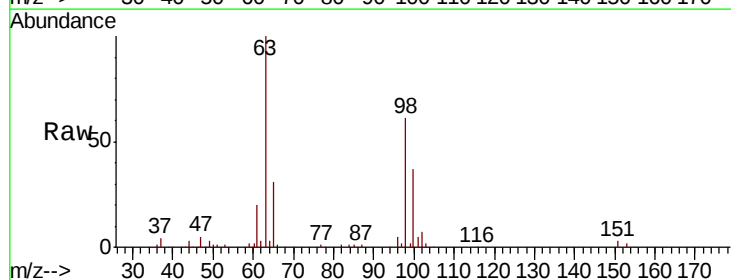
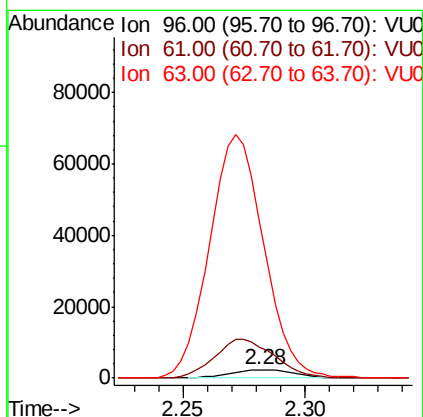
RT: 2.28 min Scan# 526

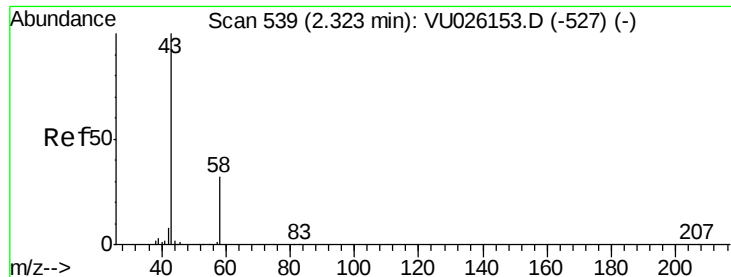
Delta R.T. -0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Tgt Ion:	96	Resp:	4196
Ion Ratio	Lower	Upper	
96	100		
61	374.8	126.8	235.4#
63	1887.0	97.0	180.2#





#13

Acetone

Concen: 4.68 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 43 Resp: 5375

Ion Ratio Lower Upper

43 100

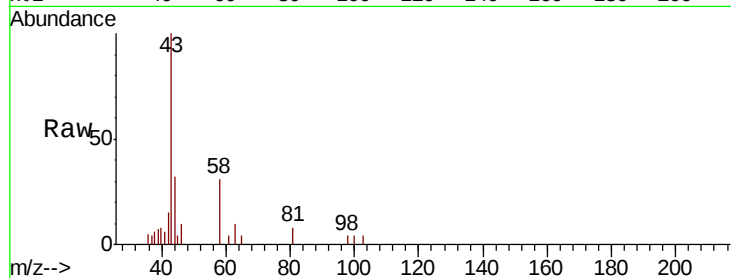
58 26.8 0.0 62.6

Manual Integrations

APPROVED

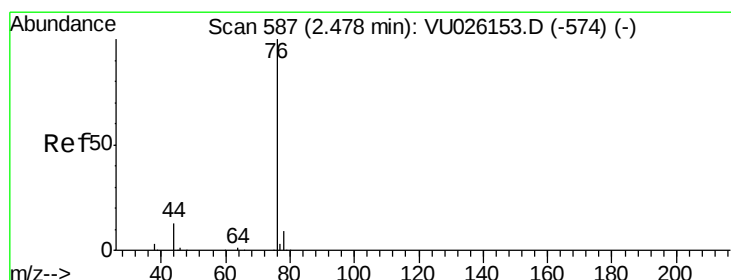
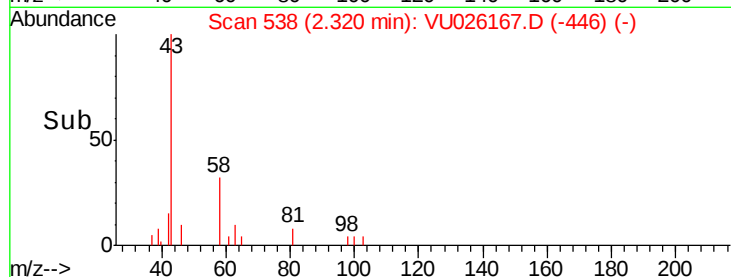
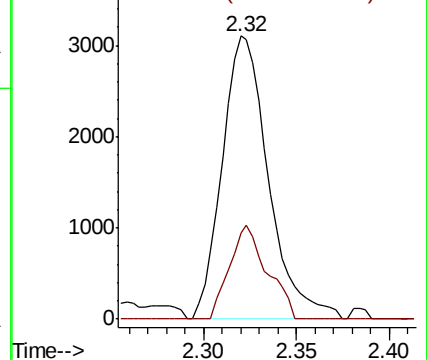
MMDadoda

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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: 2.35 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU026167.D

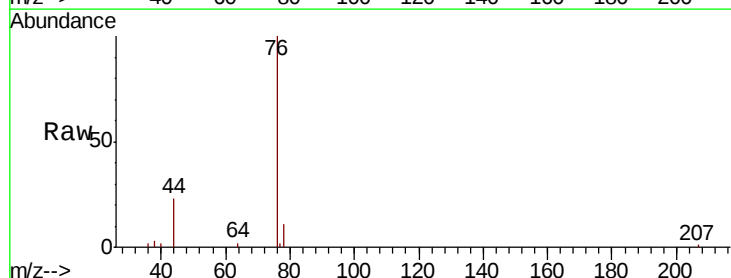
Acq: 16 Aug 2018 00:02

Tgt Ion: 76 Resp: 11995

Ion Ratio Lower Upper

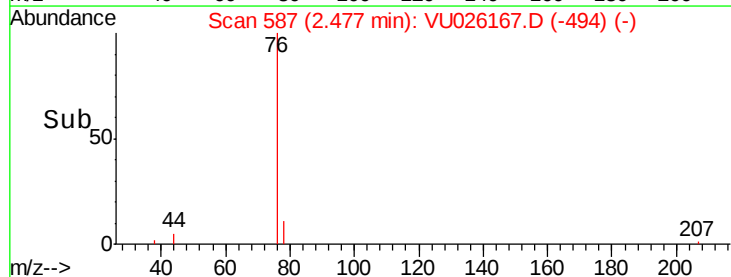
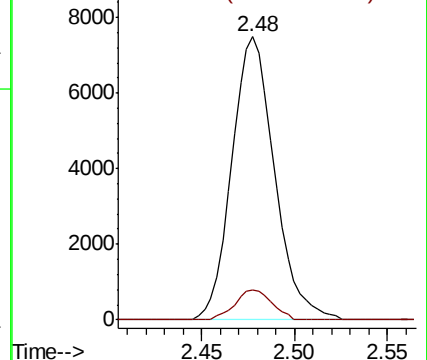
76 100

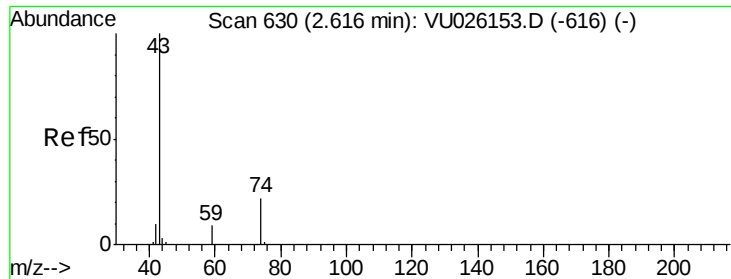
78 10.8 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





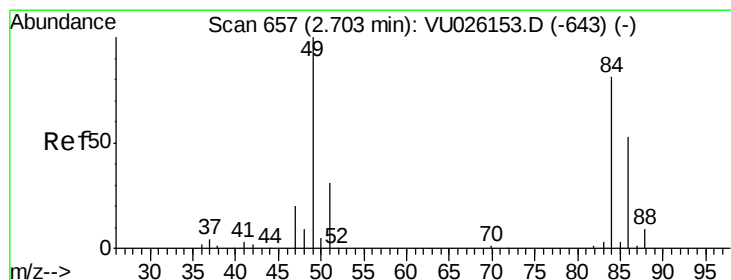
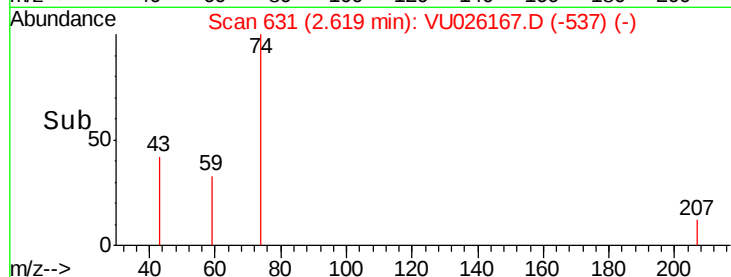
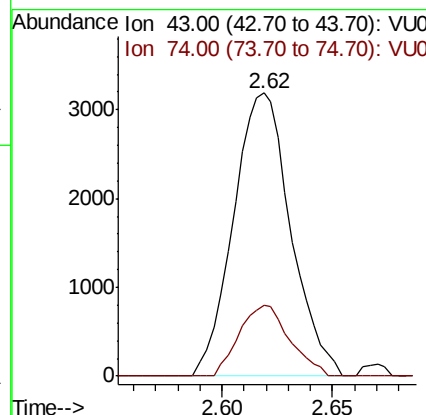
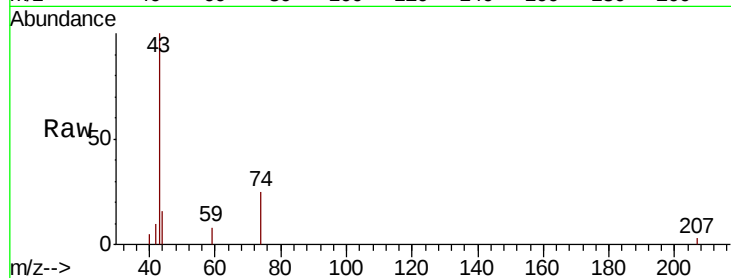
#15
Methyl Acetate
Concen: 2.88 ug/L
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion: 43 Resp: 5738
Ion Ratio Lower Upper
43 100
74 22.0 18.6 28.0

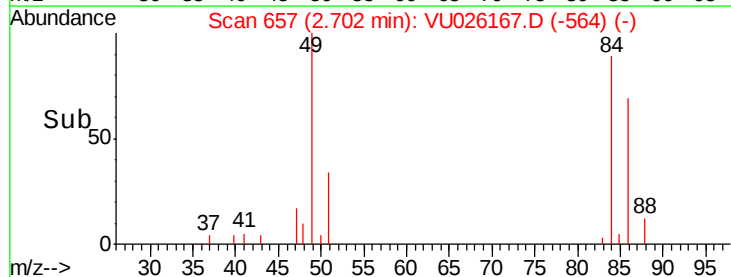
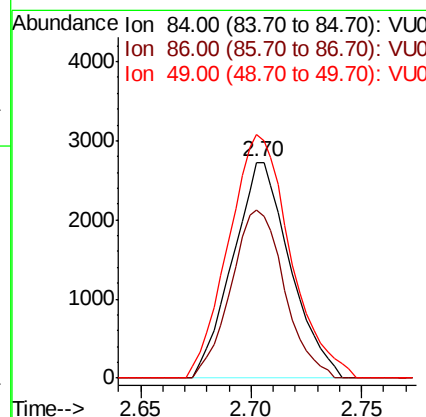
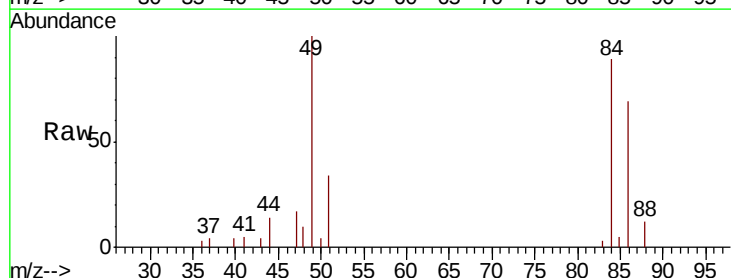
Manual Integrations
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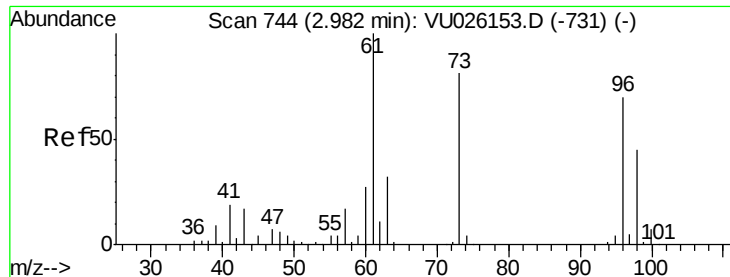
MMDadoda
8/16/2018 4:20:30 PM



#16
Methylene chloride
Concen: 2.49 ug/L
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Tgt Ion: 84 Resp: 4919
Ion Ratio Lower Upper
84 100
86 78.1 44.0 81.6
49 112.8 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 2.40 ug/L

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Instrument :

MSVOA_U

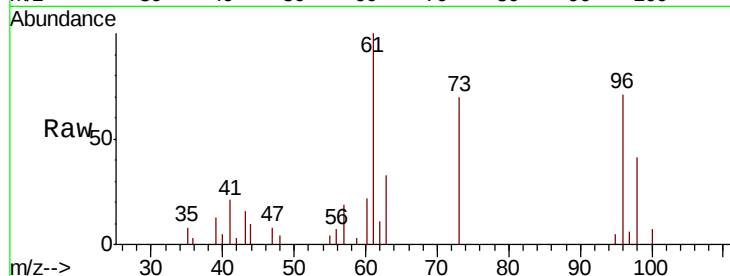
ClientSampled :

MDL05

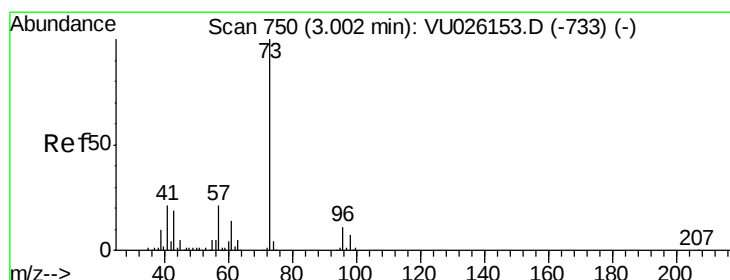
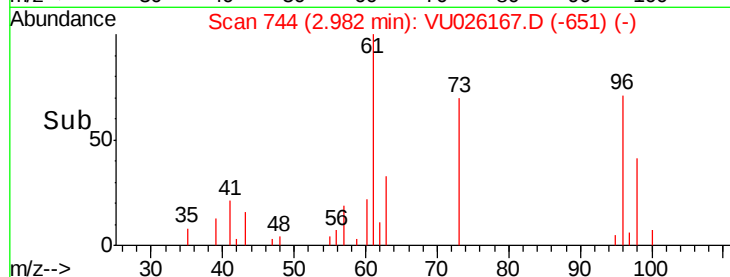
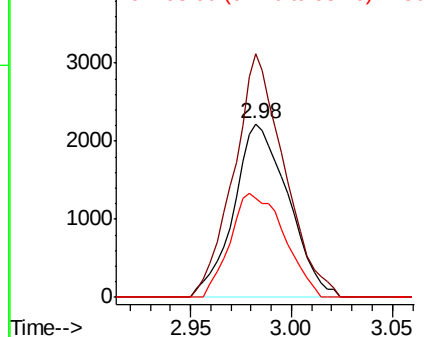
Tot Ion:	96	Resp:	4189
Ion	Ratio	Lower	Upper
96	100		
61	140.1	96.7	179.5
98	56.8	43.6	81.0

Manual Integrations
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Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 2.29 ug/L

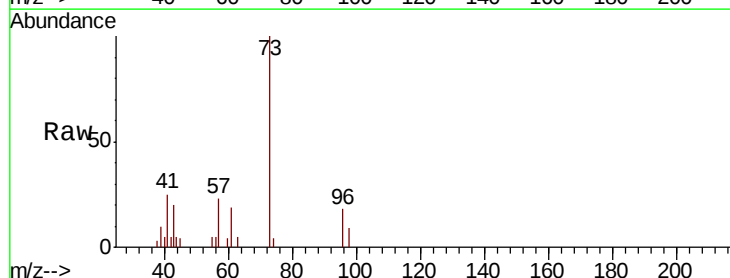
RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

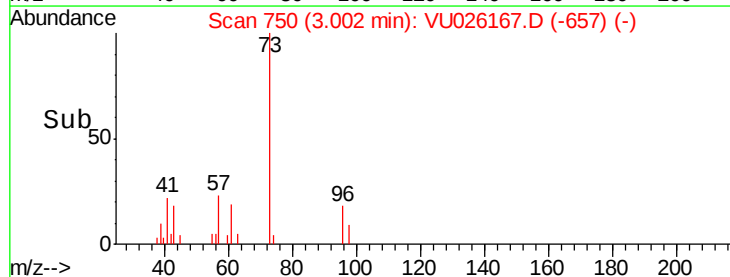
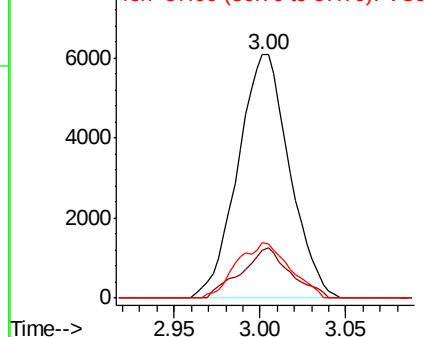
Lab File: VU026167.D

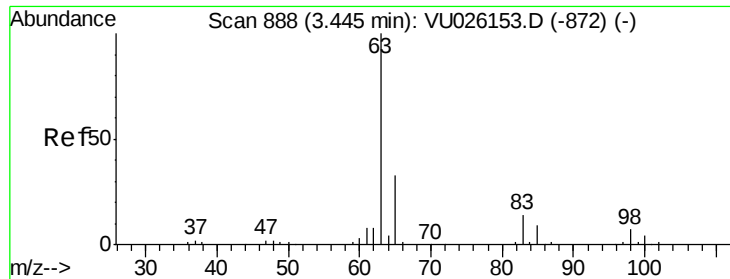
Acq: 16 Aug 2018 00:02

Tgt Ion:	73	Resp:	12691
Ion	Ratio	Lower	Upper
73	100		
43	19.6	16.2	24.4
57	23.3	18.2	27.2



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





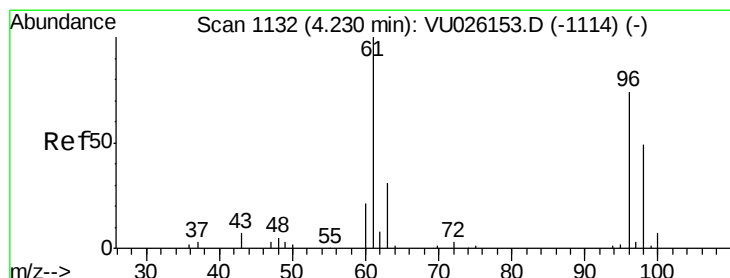
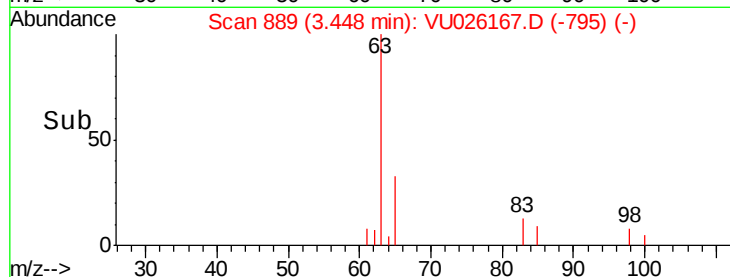
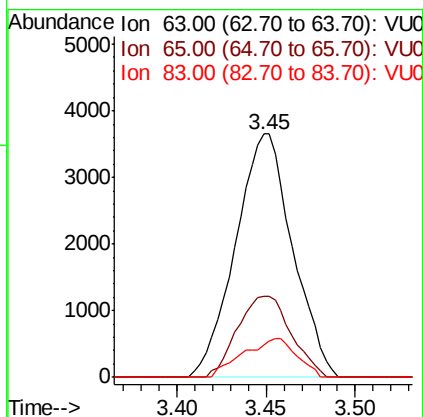
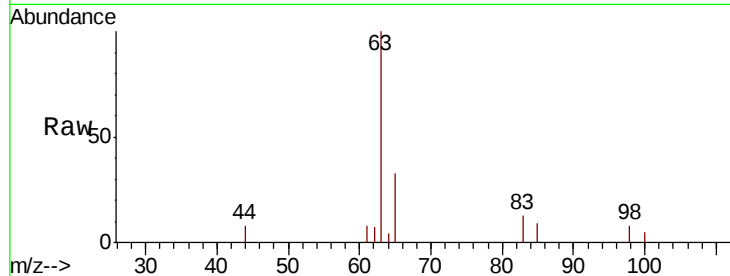
#19
 1,1-Dichloroethane
 Concen: 2.42 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.3	22.1	41.1
83	13.1	9.4	17.4

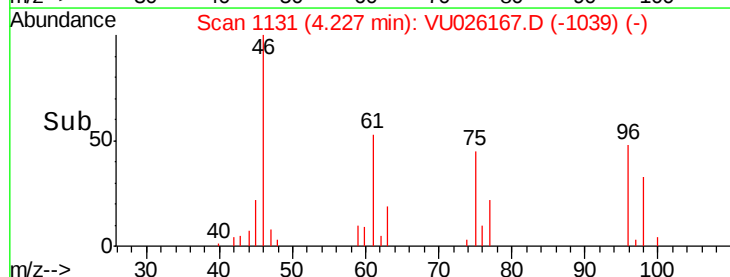
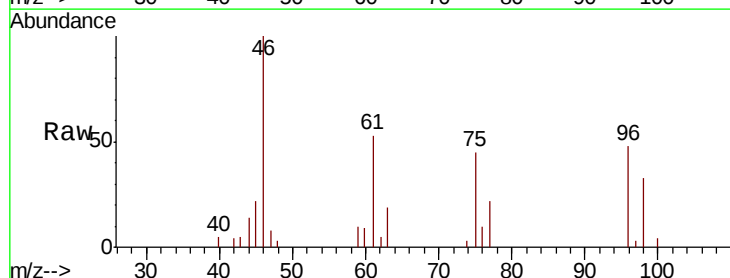
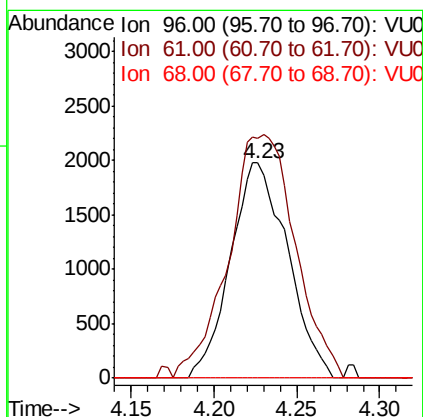
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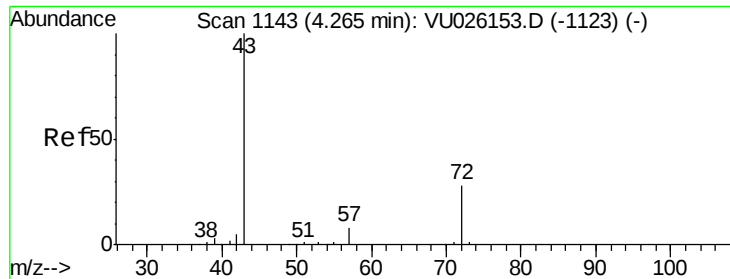
MMDadoda
 8/16/2018 4:20:30 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.42 ug/L
 RT: 4.23 min Scan# 1131
 Delta R.T. -0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	111.3	88.6	164.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.59 ug/L

RT: 4.27 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Instrument :

MSVOA_U

ClientSampleId :

MDL05

Tot Ion: 43 Resp: 6570

Ion Ratio Lower Upper

43 100

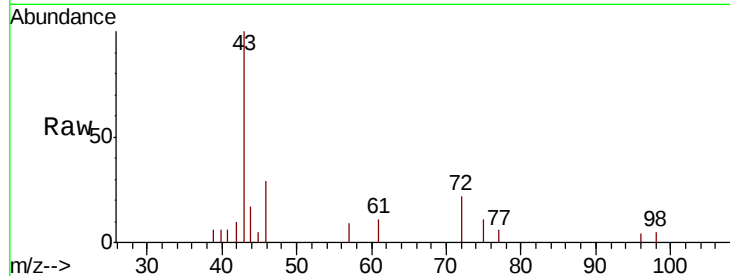
72 2.8 13.4 40.1#

Manual Integrations

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MMDadoda

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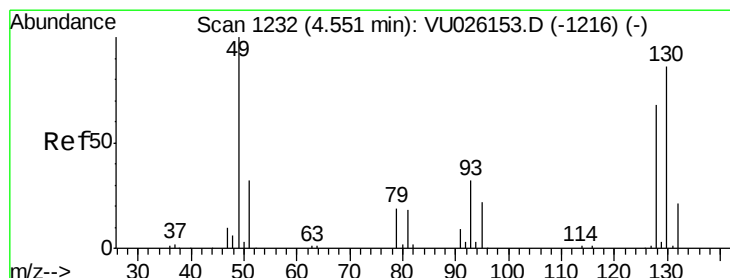
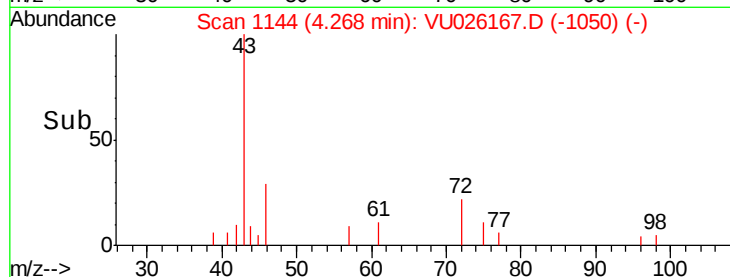


Abundance Ion 43.00 (42.70 to 43.70): VU026167.D (-1144) (-)

Ion 72.00 (71.70 to 72.70): VU026167.D (-1144) (-)

4.27

Time-->



#23

Bromochloromethane

Concen: 2.32 ug/L

RT: 4.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Tgt Ion:128 Resp: 2450

Ion Ratio Lower Upper

128 100

49 146.6 101.3 188.1

130 111.8 86.4 160.4

51 53.8 38.1 57.1

Abundance Ion 128.00 (127.70 to 128.70): VU026167.D (-1231) (-)

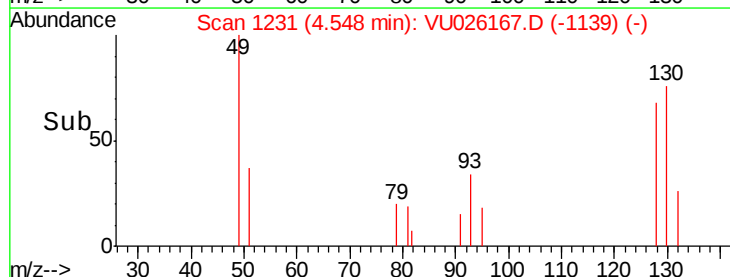
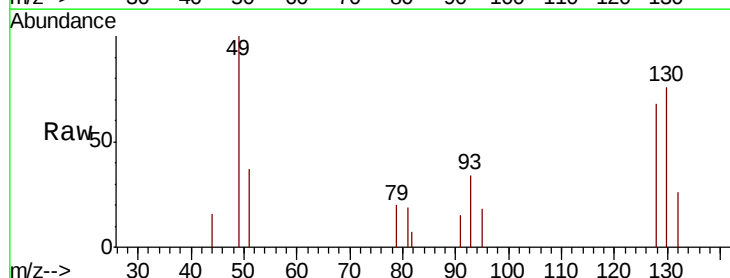
Ion 49.00 (48.70 to 49.70): VU026167.D (-1231) (-)

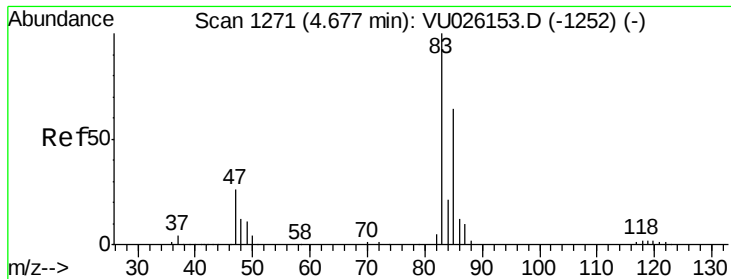
Ion 130.00 (129.70 to 130.70): VU026167.D (-1231) (-)

Ion 51.00 (50.70 to 51.70): VU026167.D (-1231) (-)

4.55

Time-->





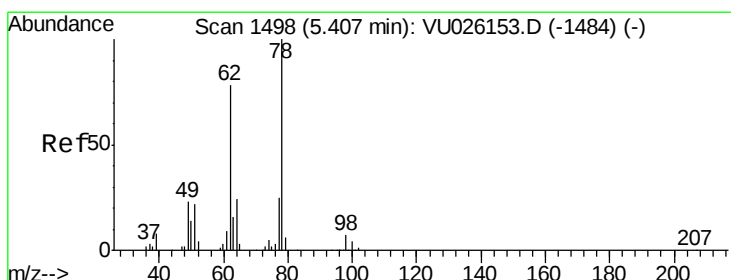
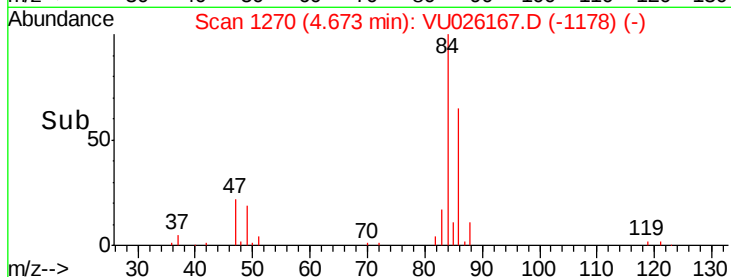
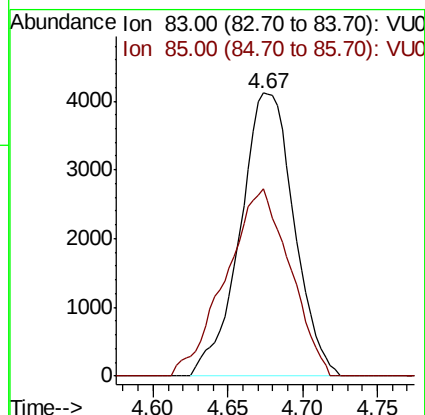
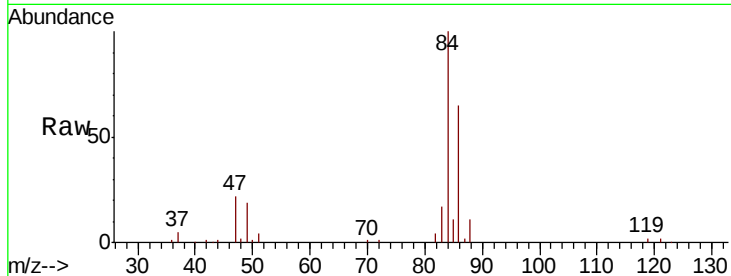
#25
Chloroform
Concen: 2.93 ug/L
RT: 4.67 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion	83	Resp	10329
Ion Ratio	100	Lower	Upper
85	66.1	46.3	86.1

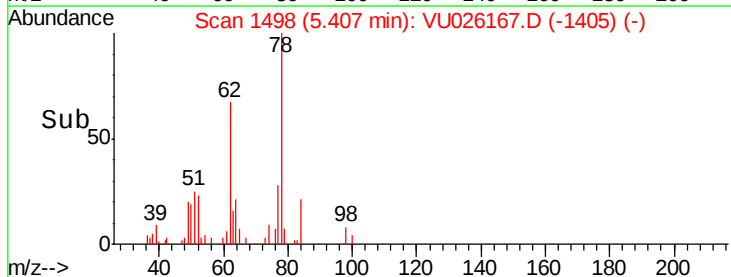
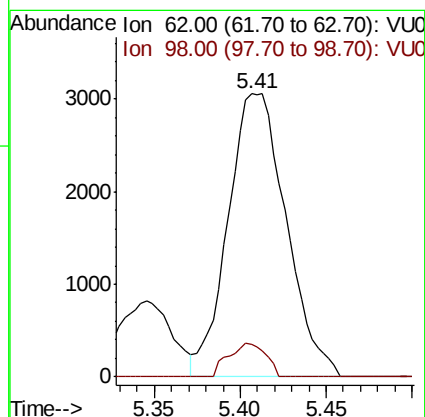
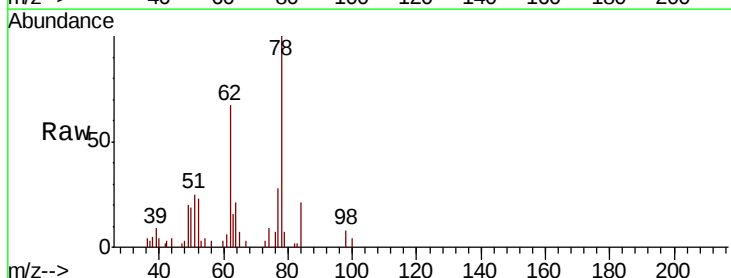
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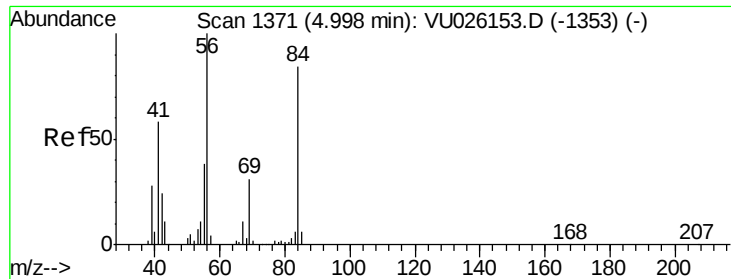
MMDadoda
8/16/2018 4:20:30 PM



#27
1,2-Dichloroethane
Concen: 2.53 ug/L
RT: 5.41 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Tgt Ion	62	Resp	7210
Ion Ratio	100	Lower	Upper
98	11.4	7.0	10.4#





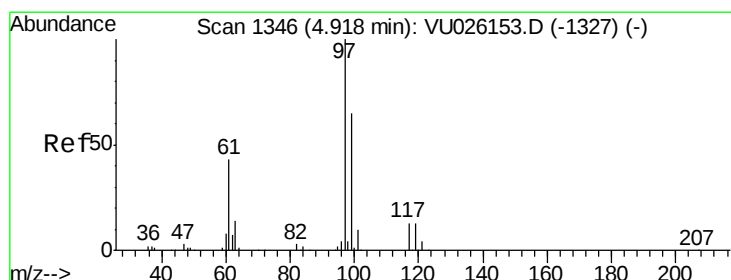
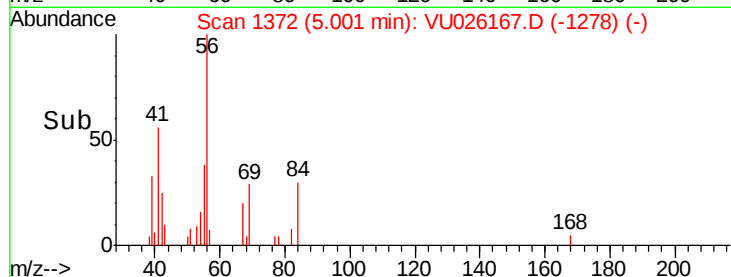
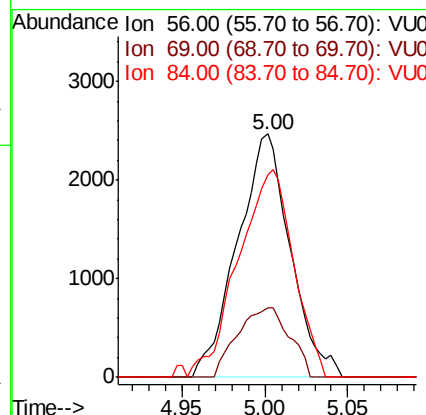
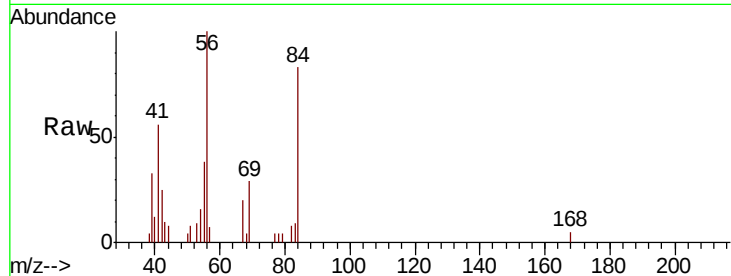
#29
Cyclohexane
Concen: 2.09 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.0	24.1	36.1
84	89.1	68.6	102.8

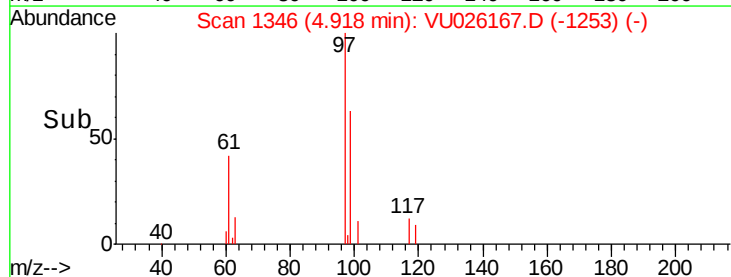
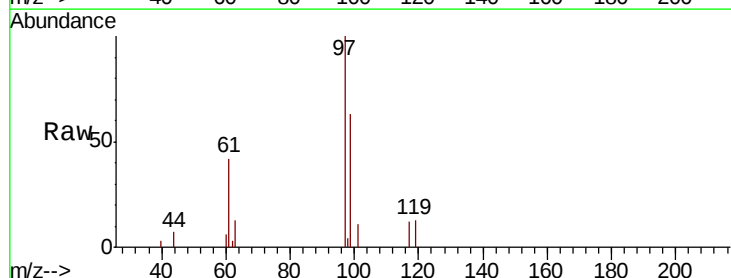
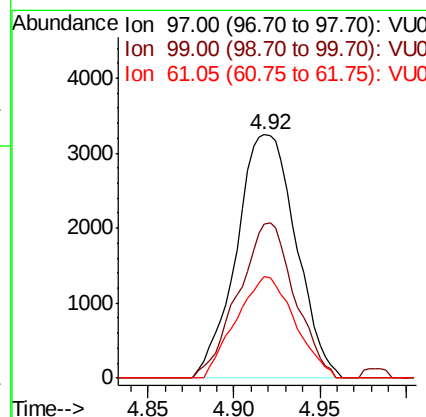
Manual Integrations
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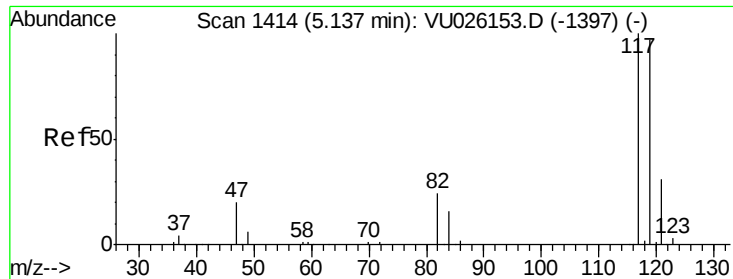
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.49 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.6	52.2	78.2
61	41.1	35.4	53.0





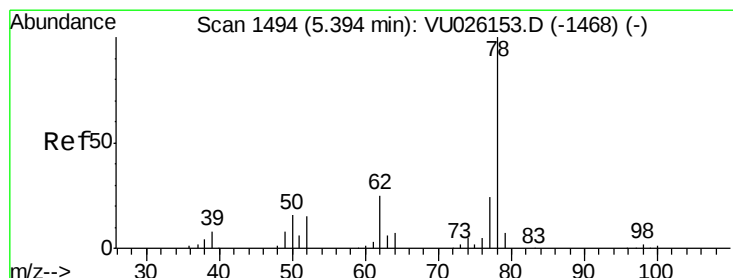
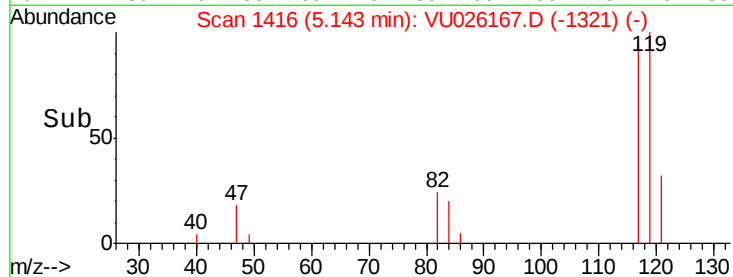
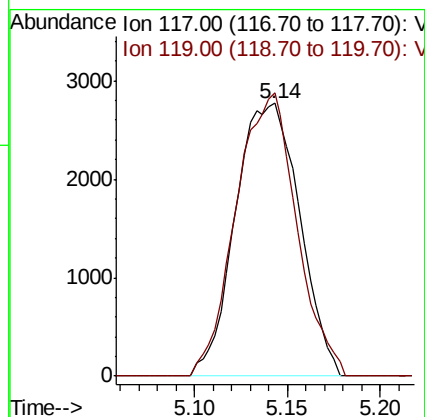
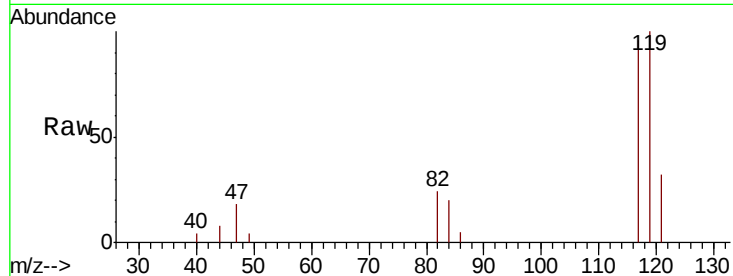
#31
Carbon tetrachloride
Concen: 2.36 ug/L
RT: 5.14 min Scan# 1416
Delta R.T. 0.01 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion:117 Resp: 6671
Ion Ratio Lower Upper
117 100
119 98.1 77.4 116.2

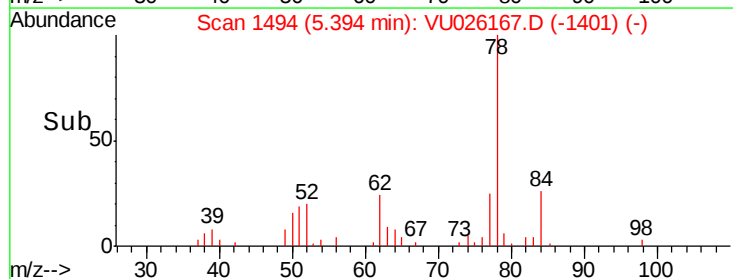
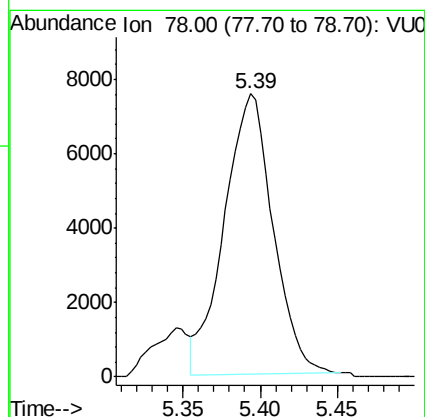
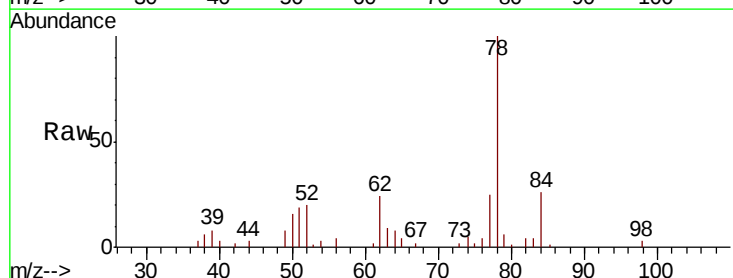
Manual Integrations
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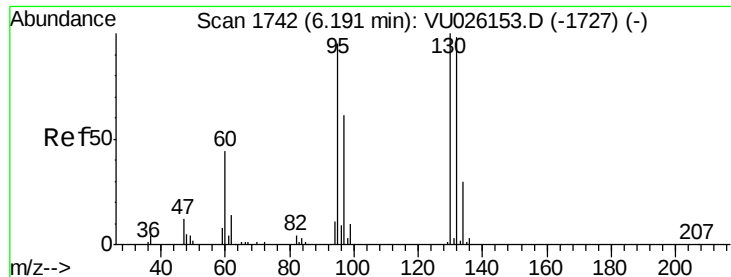
MMDadoda
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#33
Benzene
Concen: 2.34 ug/L
RT: 5.39 min Scan# 1494
Delta R.T. -0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Tgt Ion: 78 Resp: 16562





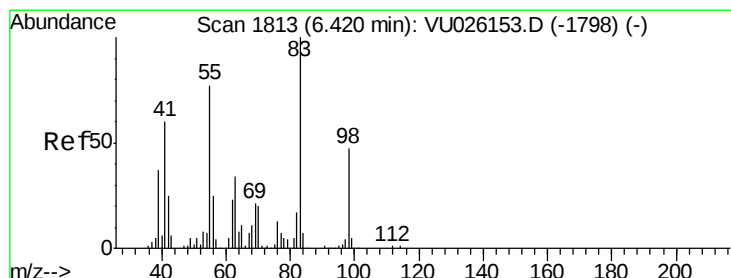
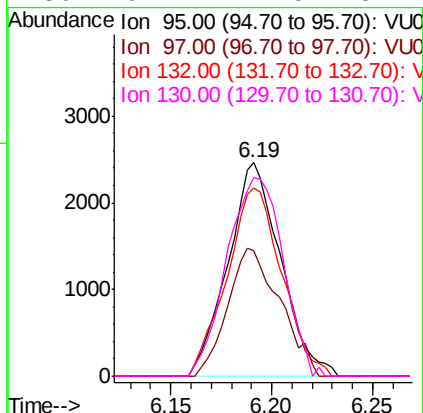
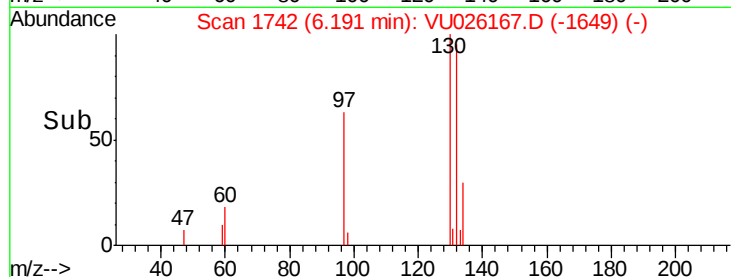
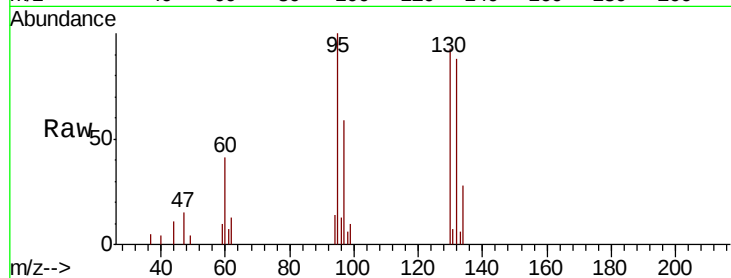
#34
 Trichloroethene
 Concen: 2.43 ug/L
 RT: 6.19 min Scan# 1742
 Delta R.T. -0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion:	95	Resp:	4487
Ion	Ratio	Lower	Upper
95	100		
97	58.5	45.7	84.9
132	88.1	68.8	127.8
130	92.7	71.5	132.7

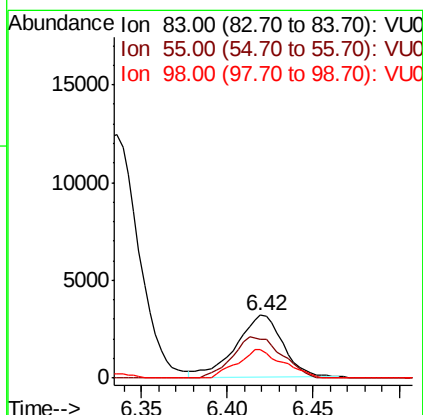
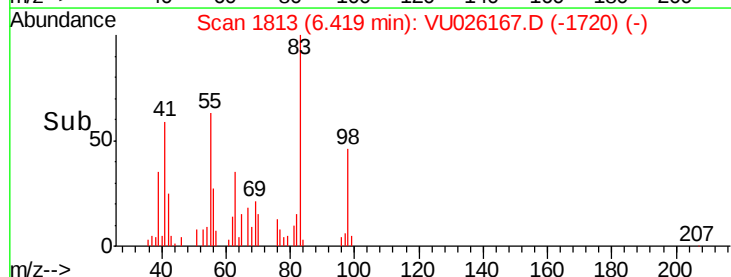
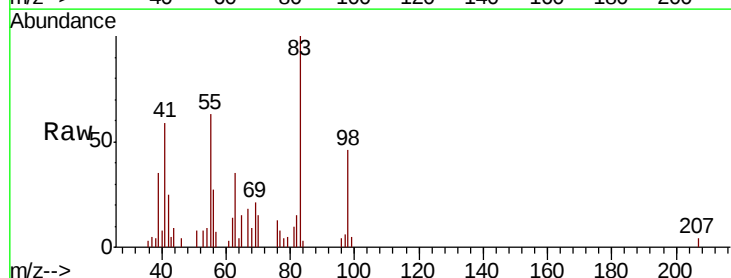
Manual Integrations
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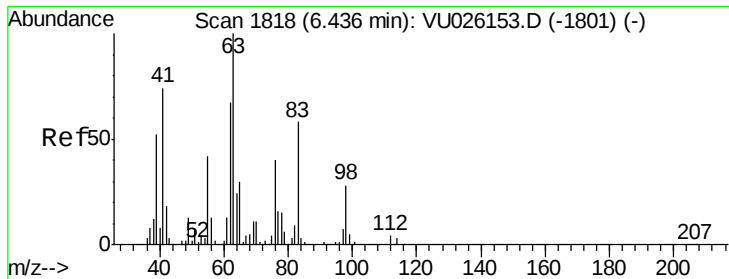
MMDadoda
 8/16/2018 4:20:30 PM



#35
 Methylcyclohexane
 Concen: 2.14 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Tgt Ion:	83	Resp:	5915
Ion	Ratio	Lower	Upper
83	100		
55	70.8	61.0	91.6
98	45.8	37.6	56.4





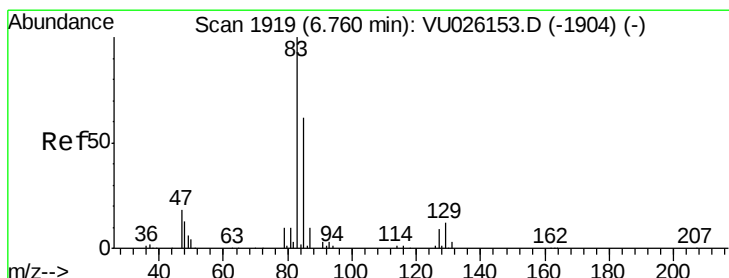
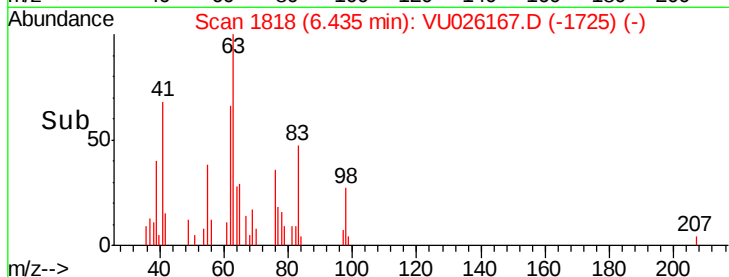
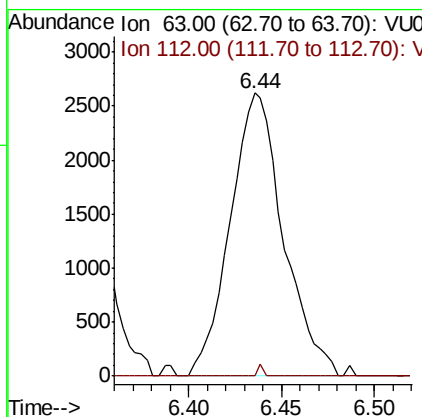
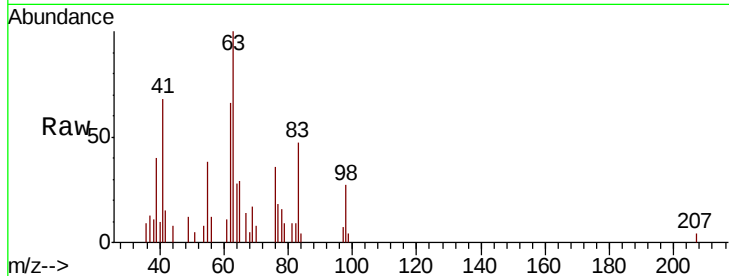
#37
 1,2-Dichloropropane
 Concen: 2.64 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion: 63 Resp: 5218
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#

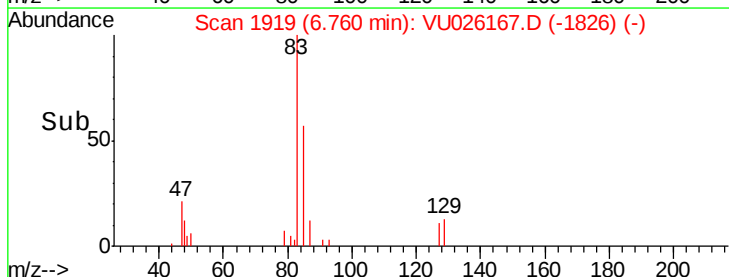
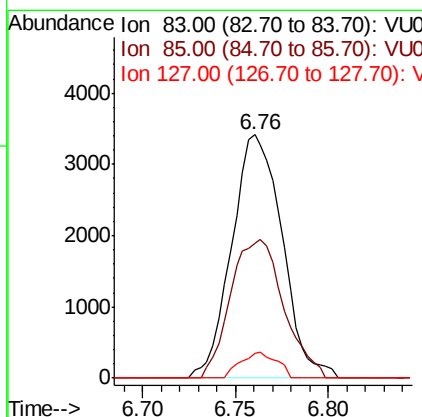
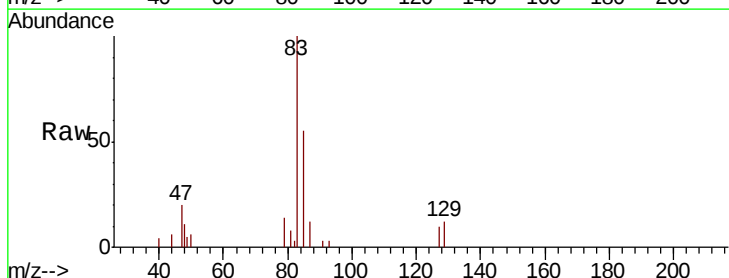
Manual Integrations
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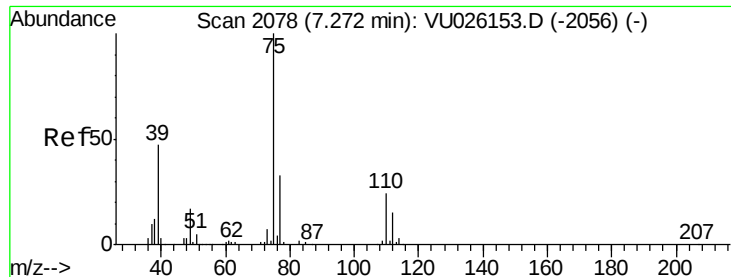
MMDadoda
 8/16/2018 4:20:30 PM



#38
 Bromodichloromethane
 Concen: 2.47 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. -0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Tgt Ion: 83 Resp: 6461
 Ion Ratio Lower Upper
 83 100
 85 55.1 46.0 85.4
 127 10.2 7.5 11.3





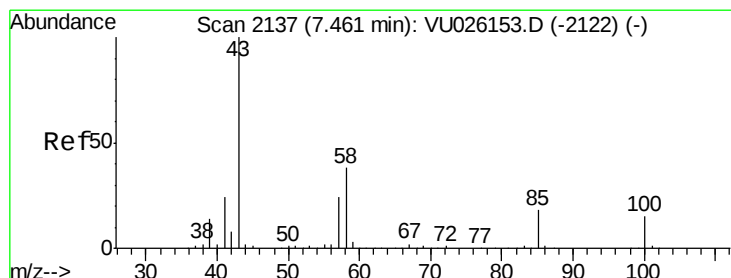
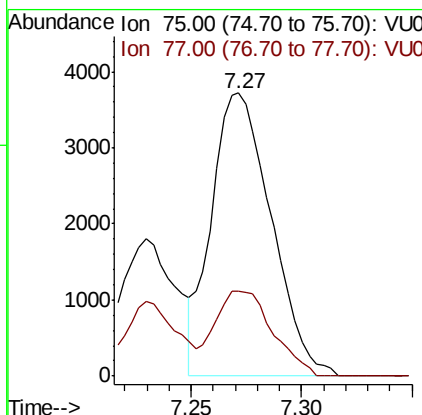
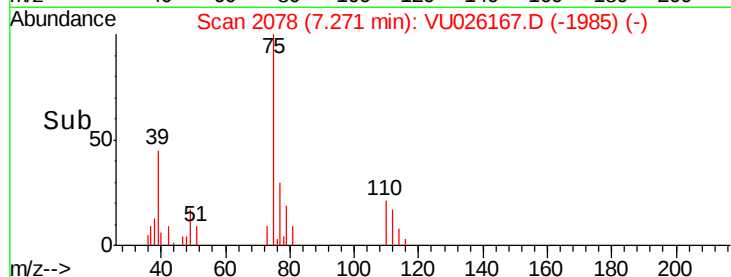
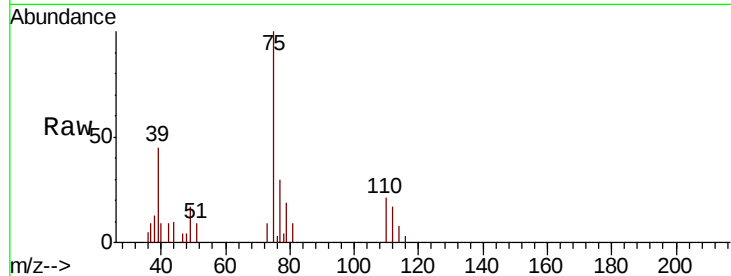
#39
 cis-1,3-Dichloropropene
 Concen: 2.38 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

Tot Ion: 75 Resp: 6990
 Ion Ratio Lower Upper
 75 100
 77 30.1 22.2 41.2

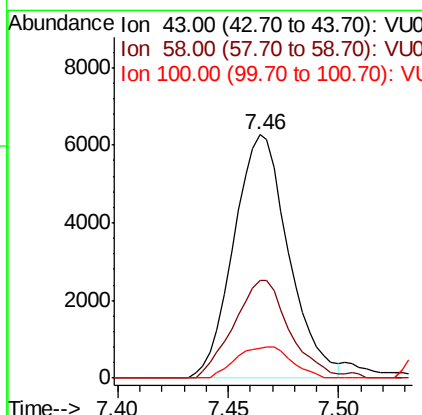
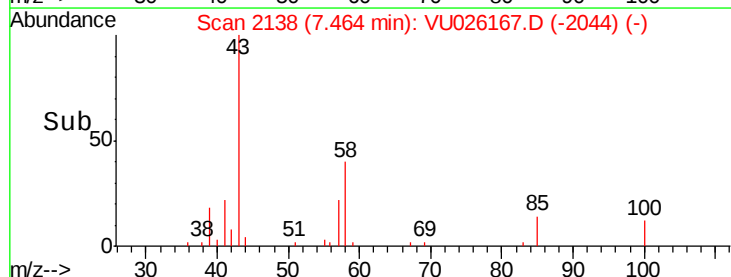
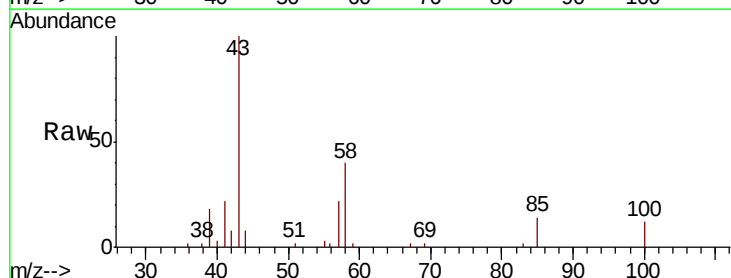
Manual Integrations
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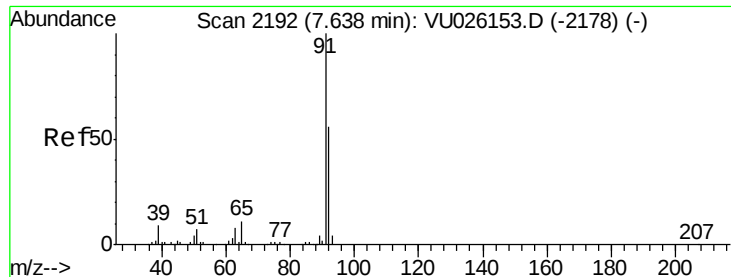
MMDadoda
 8/16/2018 4:20:30 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.40 ug/L
 RT: 7.46 min Scan# 2138
 Delta R.T. 0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Tgt Ion: 43 Resp: 10796
 Ion Ratio Lower Upper
 43 100
 58 40.7 31.8 47.8
 100 12.8 12.2 18.2





#42

Toluene

Concen: 2.25 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Instrument :

MSVOA_U

ClientSampled :

MDL05

Tot Ion: 91 Resp: 16928

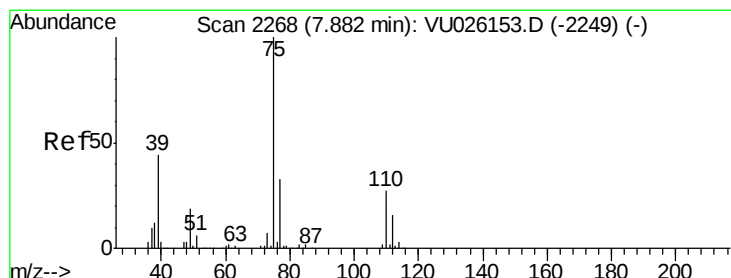
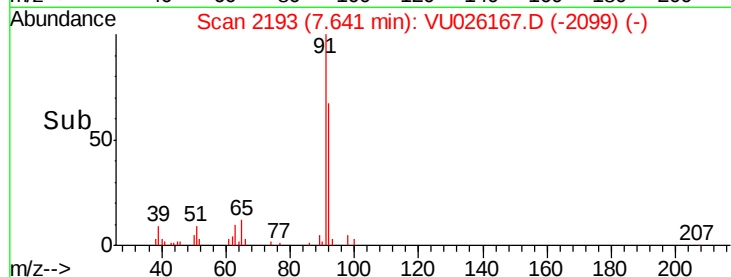
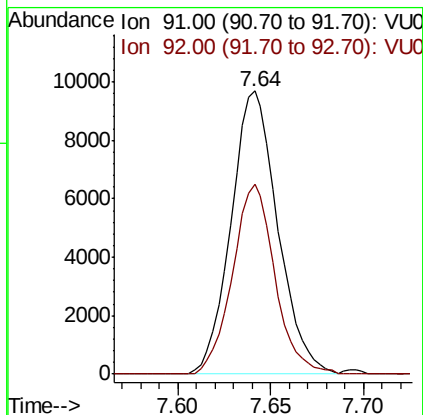
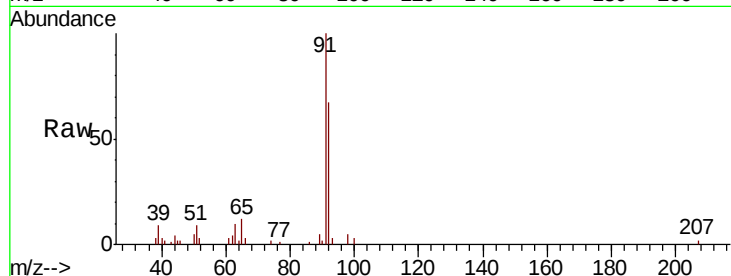
Ion Ratio Lower Upper

91 100

92 66.9 40.0 74.4

Manual Integrations
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MMDadoda
8/16/2018 4:20:30 PM



#44

trans-1,3-Dichloropropene

Concen: 2.19 ug/L m

RT: 7.89 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VU026167.D

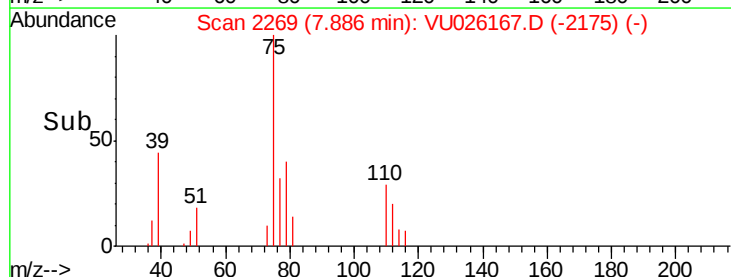
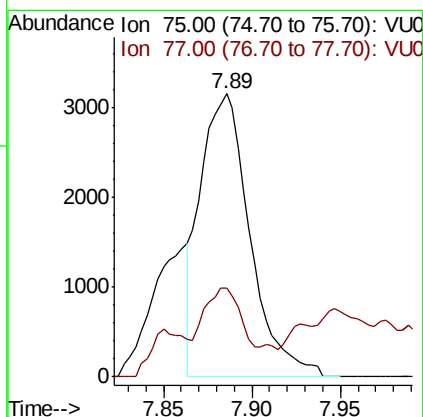
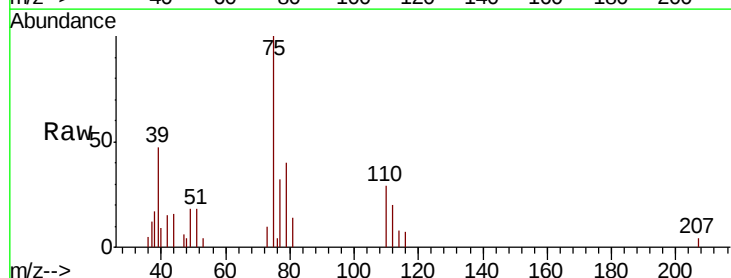
Acq: 16 Aug 2018 00:02

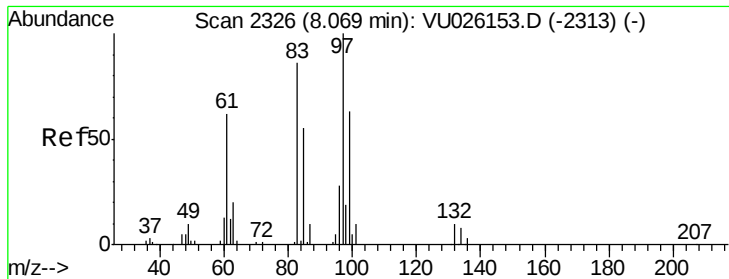
Tgt Ion: 75 Resp: 6185

Ion Ratio Lower Upper

75 100

77 31.6 22.0 41.0





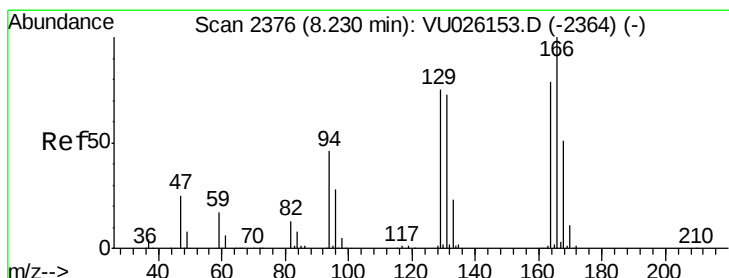
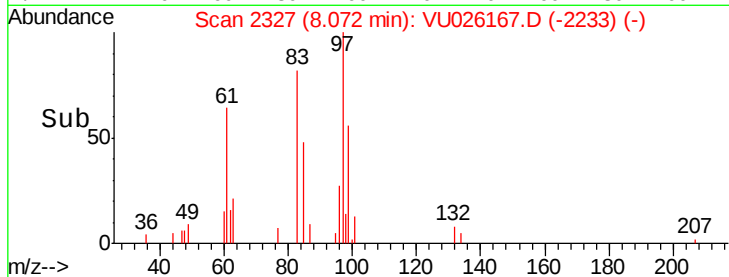
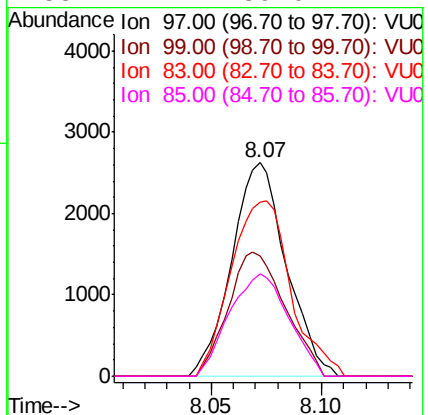
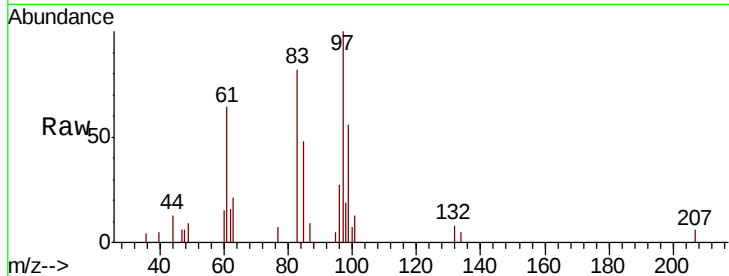
#45
 1,1,2-Trichloroethane
 Concen: 2.41 ug/L
 RT: 8.07 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion:	97	Resp:	4524
Ion	Ratio	Lower	Upper
97	100		
99	56.5	43.3	80.5
83	81.7	58.4	108.6
85	47.7	39.0	72.4

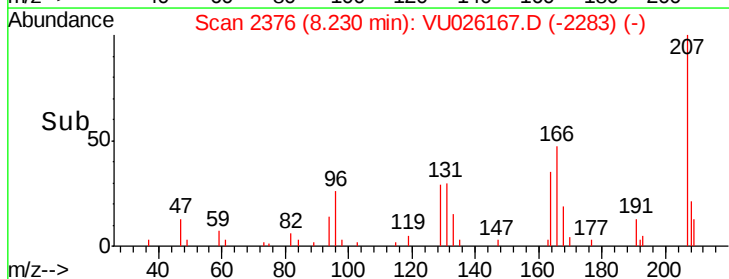
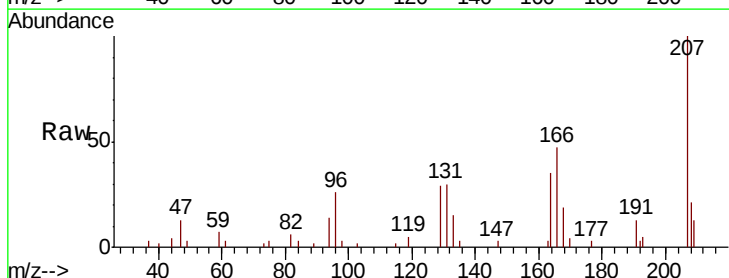
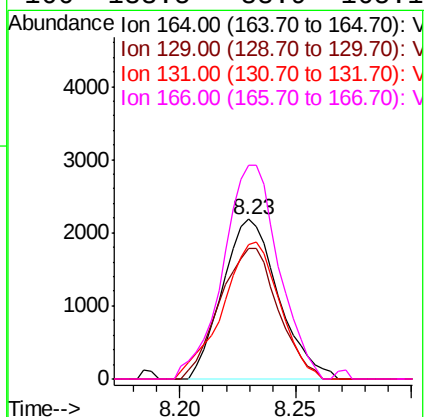
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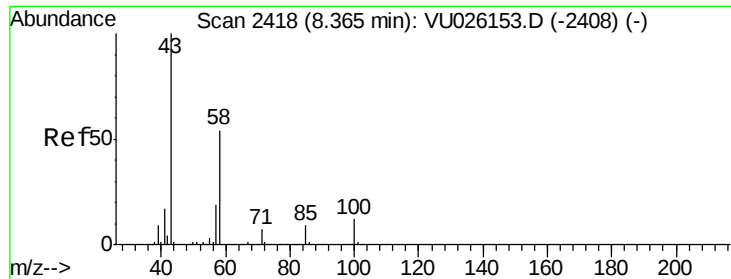
MMDadoda
 8/16/2018 4:20:30 PM



#46
 Tetrachloroethene
 Concen: 2.32 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Tgt Ion:	164	Resp:	3688
Ion	Ratio	Lower	Upper
164	100		
129	81.3	65.7	121.9
131	84.3	62.0	115.2
166	133.5	88.9	165.1





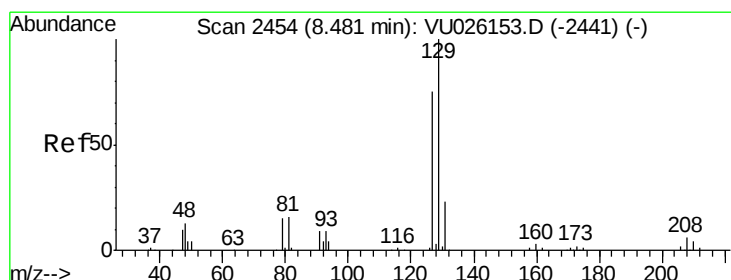
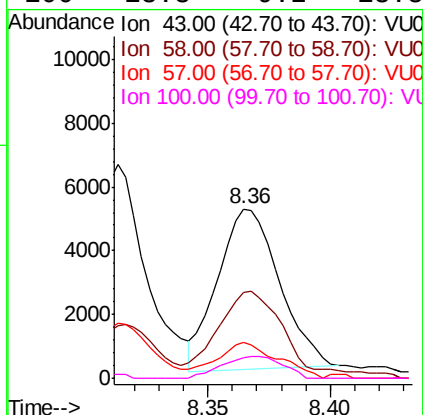
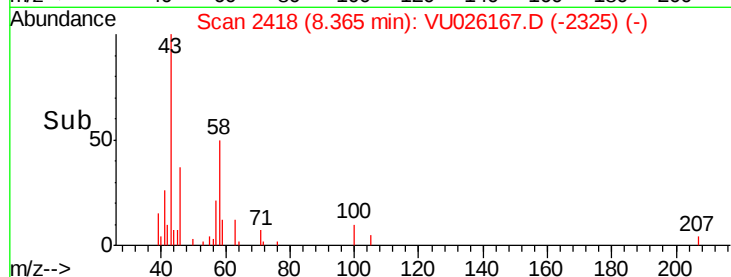
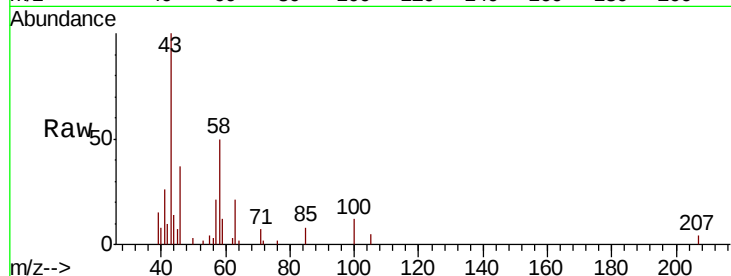
#48
2-Hexanone
Concen: 4.60 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	48.6	42.9	64.3	
57	22.8	15.1	22.7	
100	13.3	9.2	13.8	

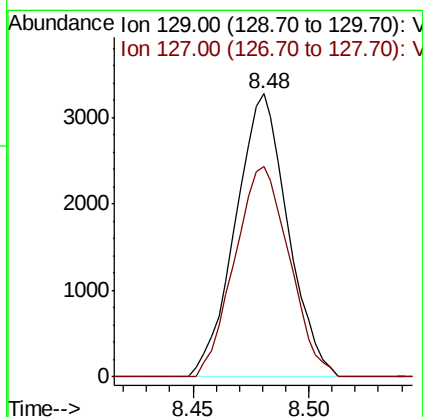
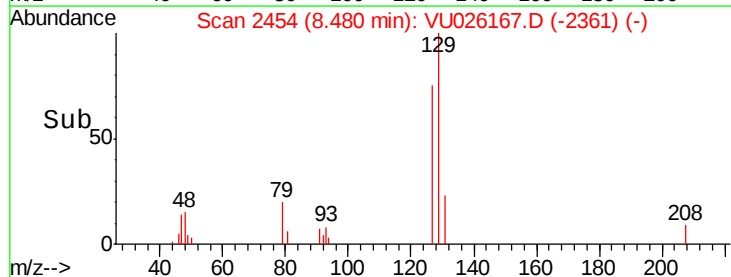
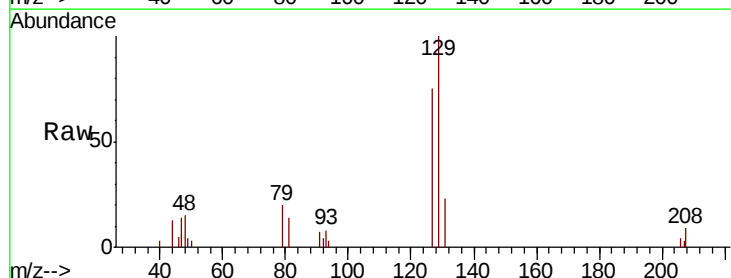
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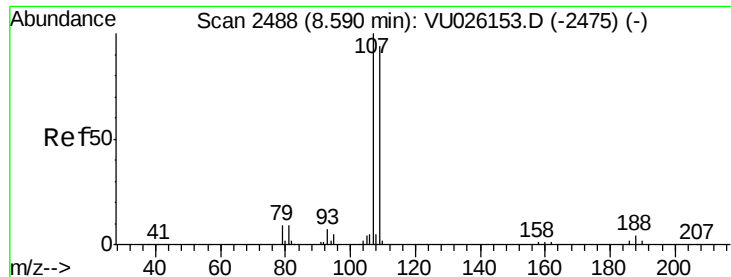
MMDadoda
8/16/2018 4:20:30 PM



#49
Dibromochloromethane
Concen: 2.28 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	74.5	54.6	101.4	





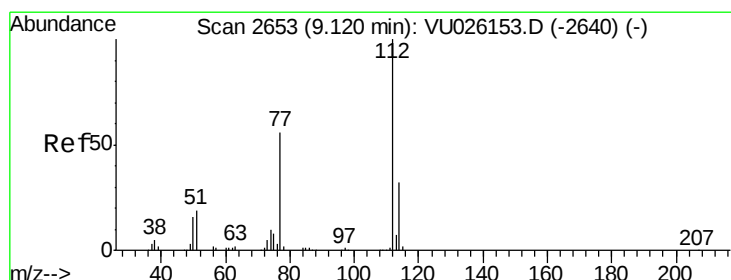
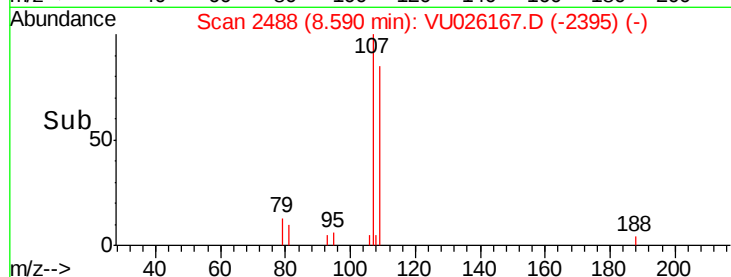
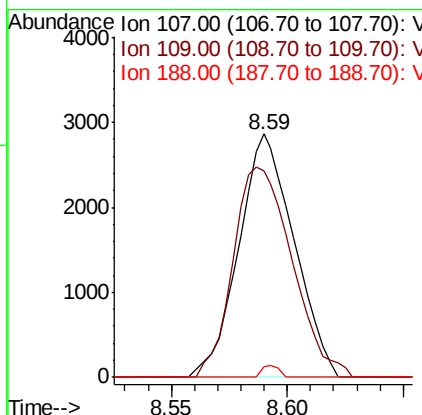
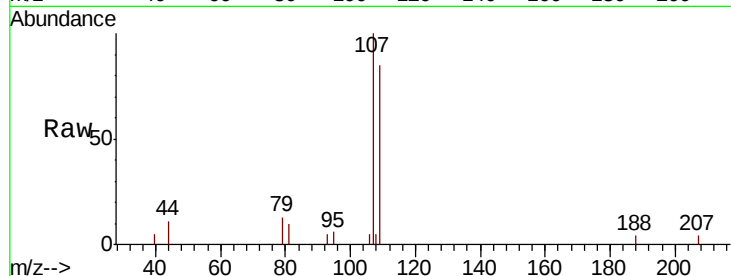
#50
1,2-Dibromoethane
Concen: 2.44 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. -0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
107	100		
109	84.9	66.1	122.7
188	4.5	3.2	4.8

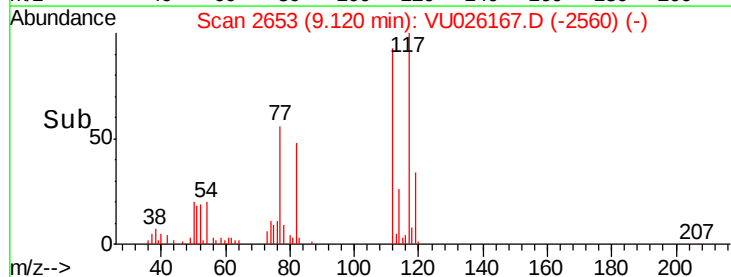
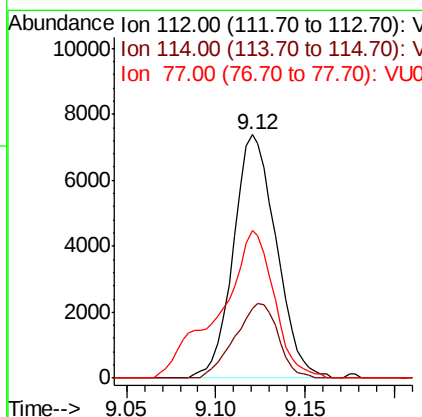
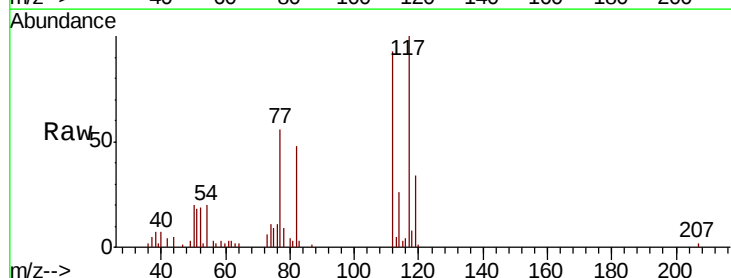
Manual Integrations
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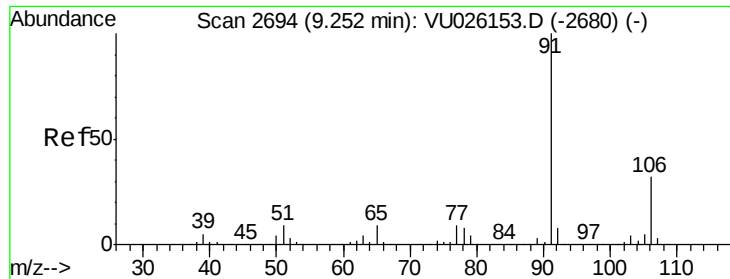
MMDadoda
8/16/2018 4:20:30 PM



#51
Chlorobenzene
Concen: 2.40 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. -0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Tgt Ion	Ratio	Lower	Upper
112	100		
114	28.3	22.5	41.9
77	60.9	45.0	67.4





#52

Ethylbenzene

Concen: 1.95 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Tot Ion: 91 Resp: 15993

Ion Ratio Lower Upper

91 100

106 32.6 22.3 41.5

Instrument :

MSVOA_U

ClientSampled :

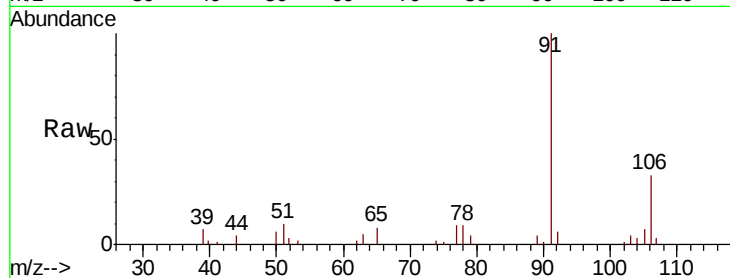
MDL05

Manual Integrations

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8/16/2018 4:20:30 PM



Abundance Ion 91.00 (90.70 to 91.70): VU026167.D (-2601) (-)

Ion 106.00 (105.70 to 106.70): VU026167.D (-2601) (-)

9.25

10000

8000

6000

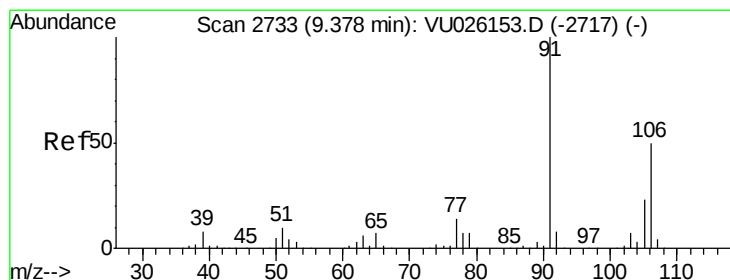
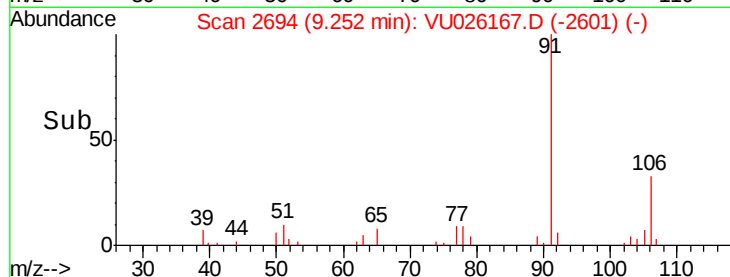
4000

2000

0

9.20 9.25 9.30

Time-->



#53

m,p-Xylene

Concen: 2.02 ug/L

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU026167.D

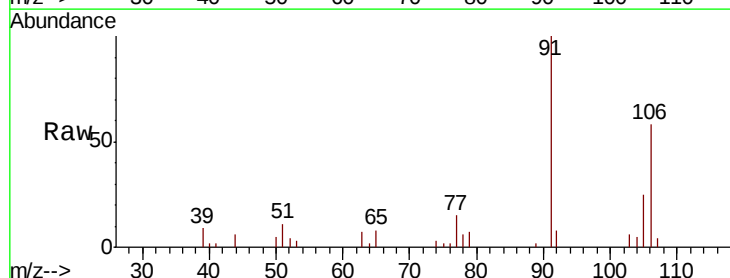
Acq: 16 Aug 2018 00:02

Tgt Ion:106 Resp: 6366

Ion Ratio Lower Upper

106 100

91 173.4 139.2 258.4



Abundance Ion 106.00 (105.70 to 106.70): VU026167.D (-2640) (-)

Ion 91.00 (90.70 to 91.70): VU026167.D (-2640) (-)

9.38

8000

6000

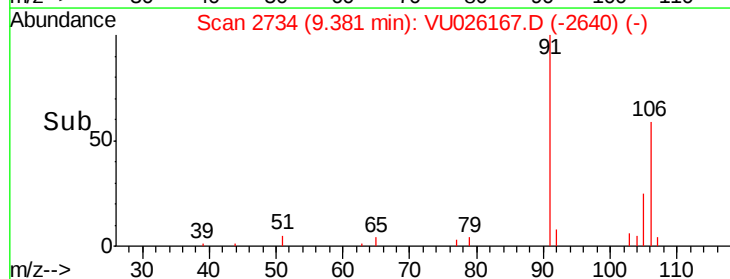
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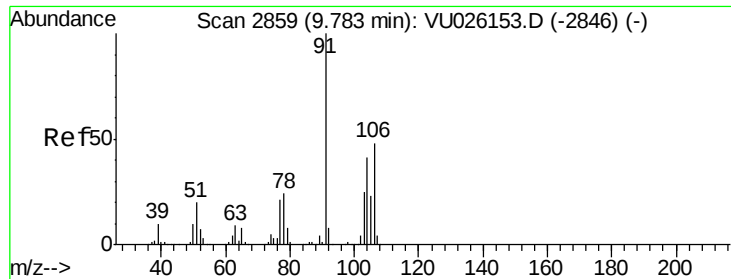
2000

0

9.35 9.40

Time-->





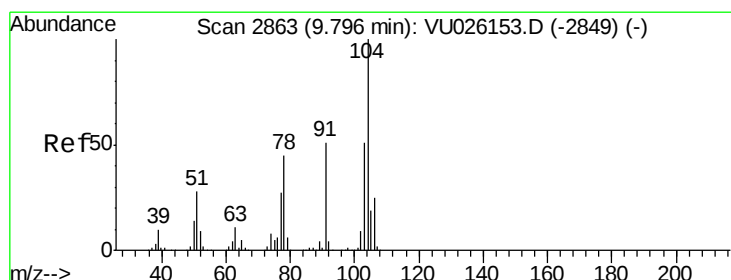
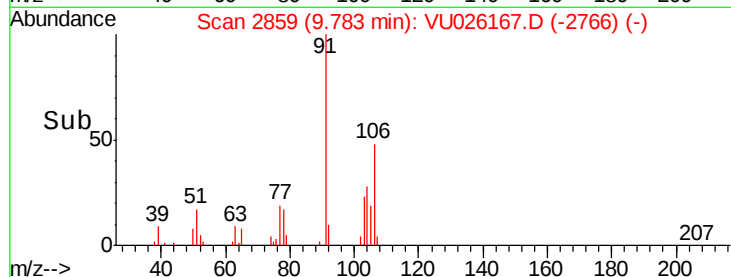
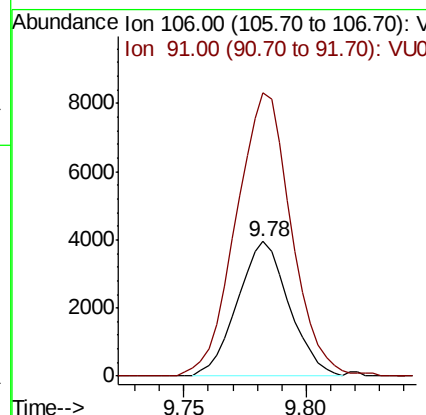
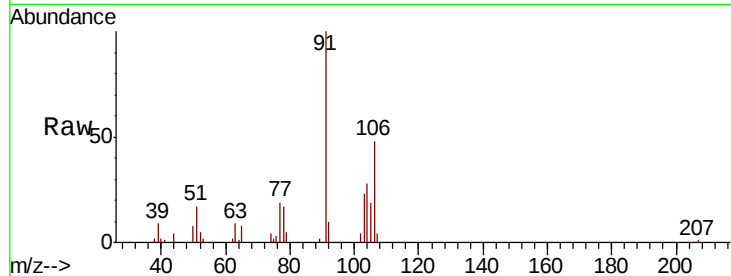
#54
o-xylene
Concen: 1.85 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Instrument :
MSVOA_U
ClientSampled :
MDL05

Tot Ion	Ratio	Lower	Upper
106	100		
91	210.4	148.0	274.8

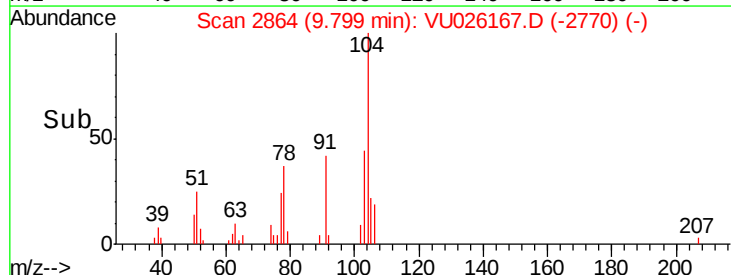
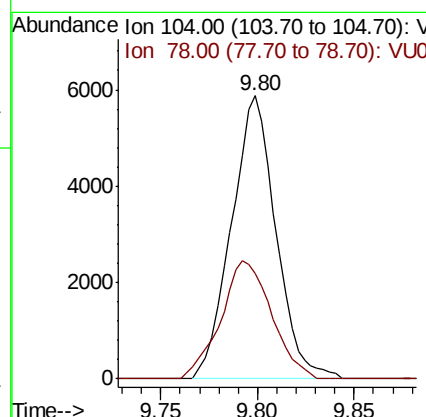
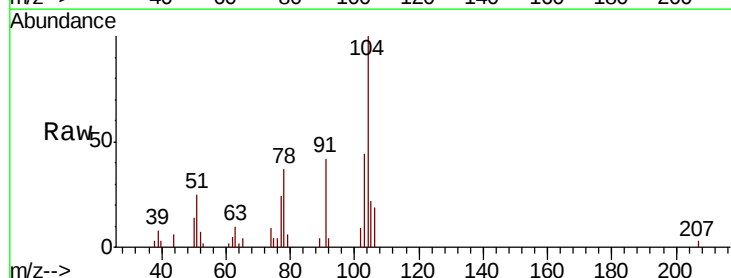
Manual Integrations
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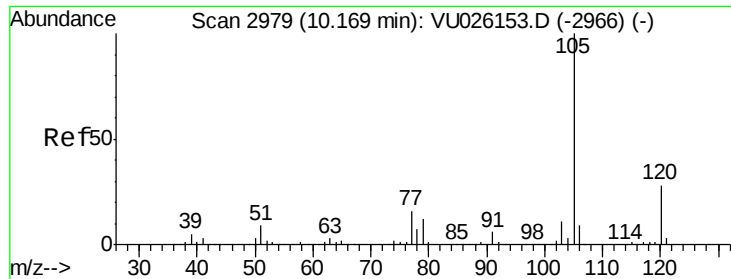
MMDadoda
8/16/2018 4:20:30 PM



#55
Styrene
Concen: 1.79 ug/L
RT: 9.80 min Scan# 2864
Delta R.T. 0.00 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Tgt Ion	Ratio	Lower	Upper
104	100		
78	37.2	30.9	57.5





#56

Isopropylbenzene

Concen: 1.82 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Instrument :

MSVOA_U

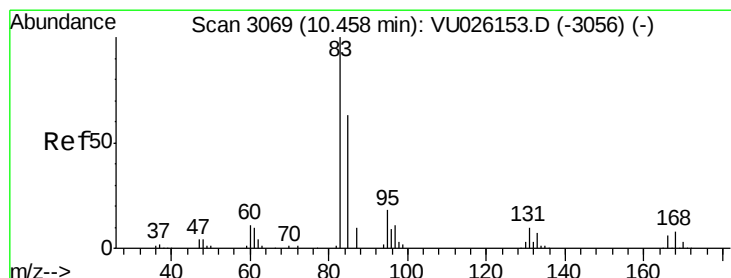
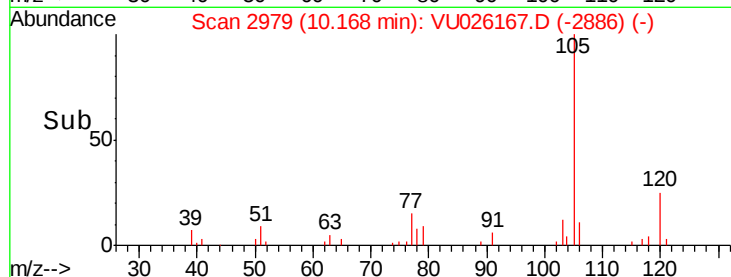
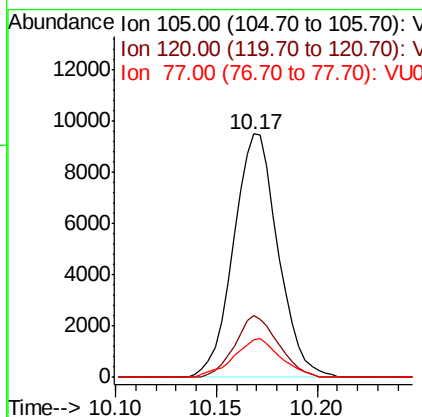
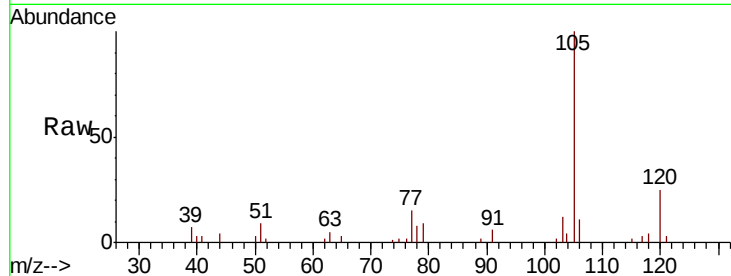
ClientSampleId :

MDL05

Tot Ion:	105	Resp:	14707
Ion Ratio	Lower	Upper	
105	100		
120	24.7	21.5	32.3
77	16.7	12.3	18.5

Manual Integrations
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MMDadoda
8/16/2018 4:20:30 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 2.68 ug/L

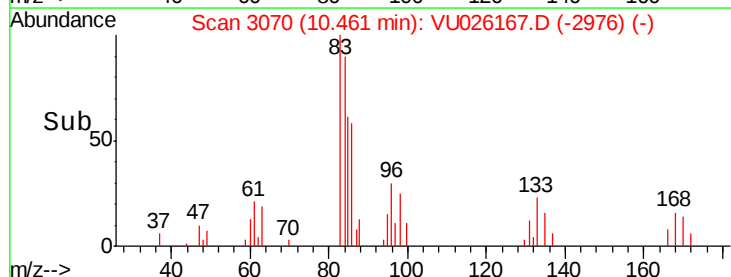
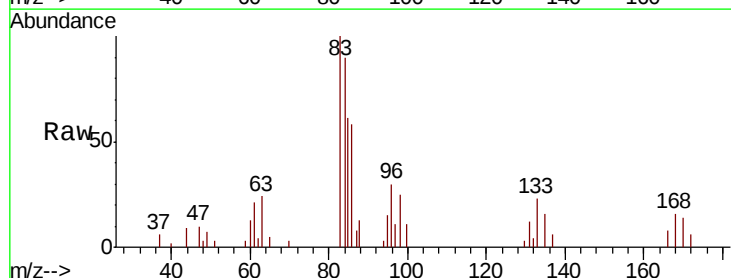
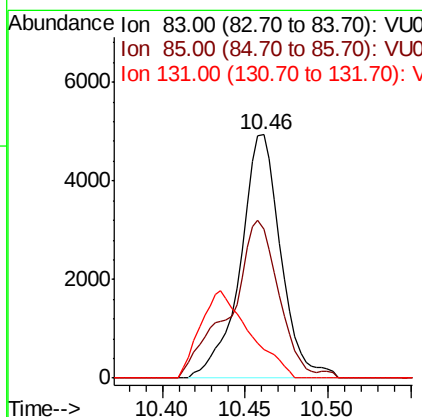
RT: 10.46 min Scan# 3070

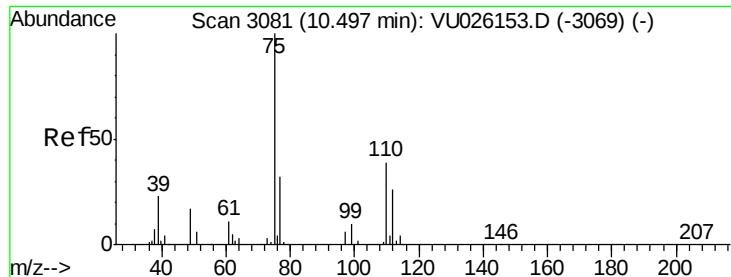
Delta R.T. 0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Tgt Ion:	83	Resp:	8393
Ion Ratio	Lower	Upper	
83	100		
85	60.9	45.0	83.6
131	11.9	8.4	12.6





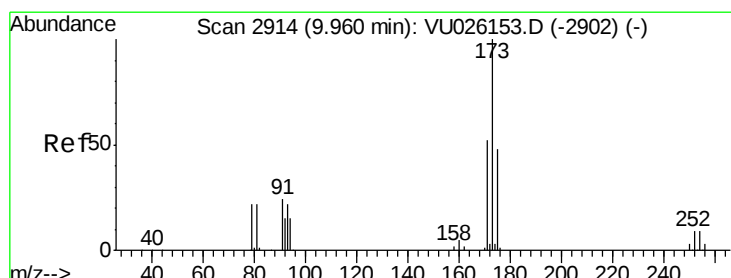
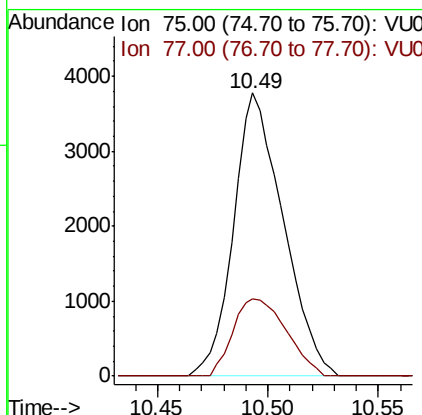
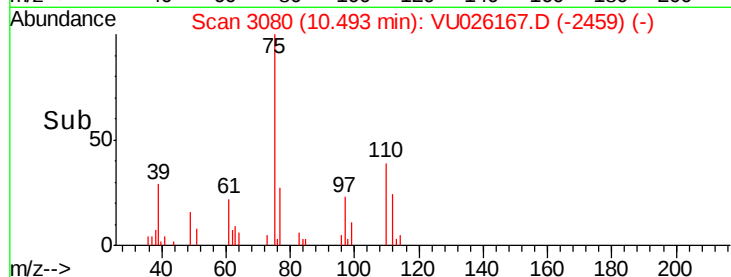
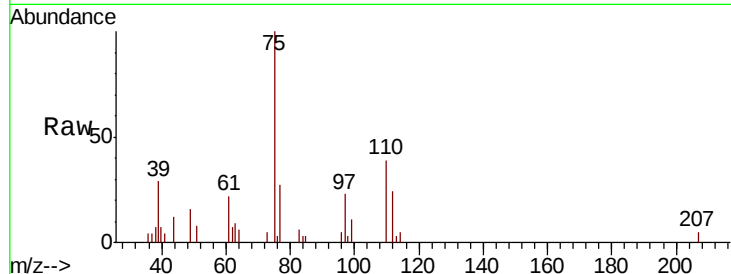
#59
 1,2,3-Trichloropropane
 Concen: 2.42 ug/L
 RT: 10.49 min Scan# 3080
 Delta R.T. -0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion: 75 Resp: 5897
 Ion Ratio Lower Upper
 75 100
 77 29.3 26.1 39.1

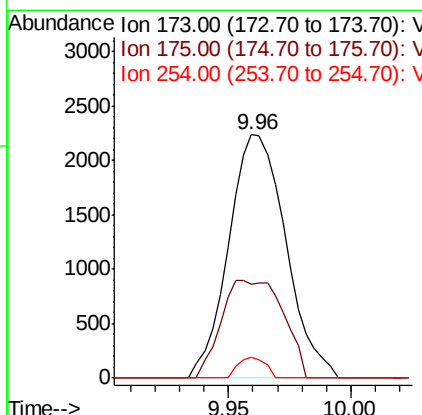
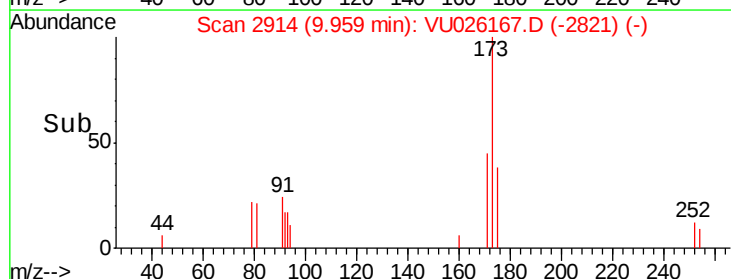
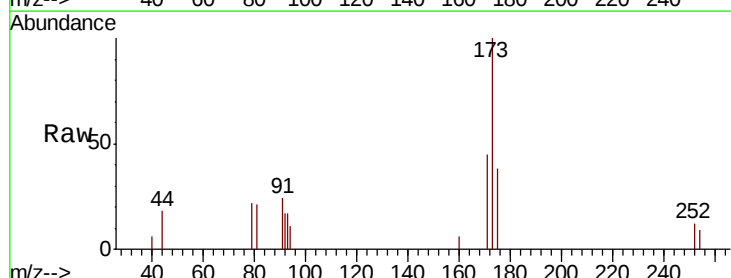
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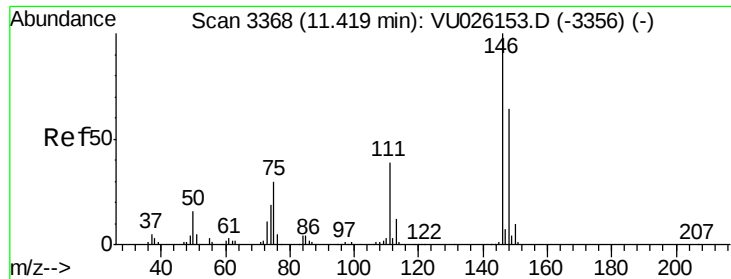
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#61
 Bromoform
 Concen: 2.53 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. -0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Tgt Ion: 173 Resp: 3638
 Ion Ratio Lower Upper
 173 100
 175 23.1 38.8 58.2#
 254 4.1 7.3 10.9#





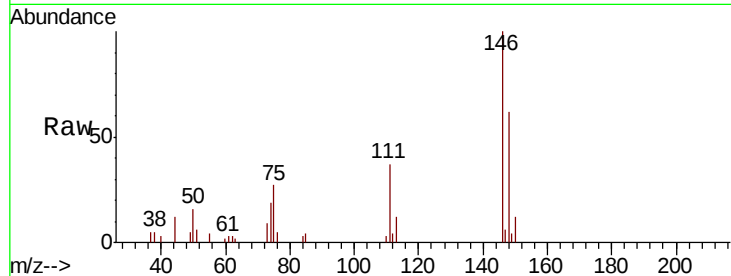
#62
 1,3-Dichlorobenzene
 Concen: 2.22 ug/L
 RT: 11.42 min Scan# 3369
 Delta R.T. 0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

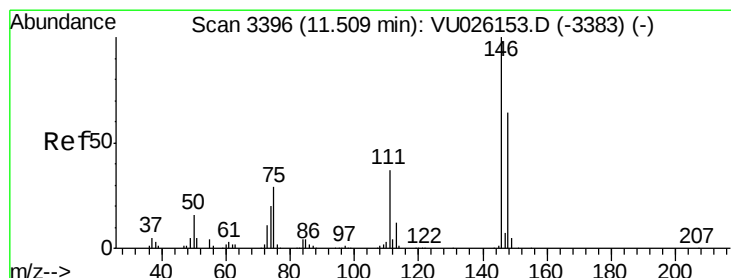
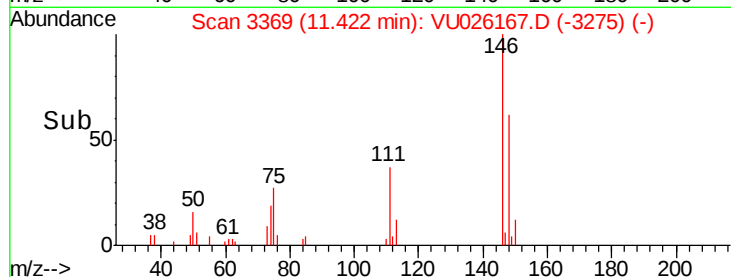
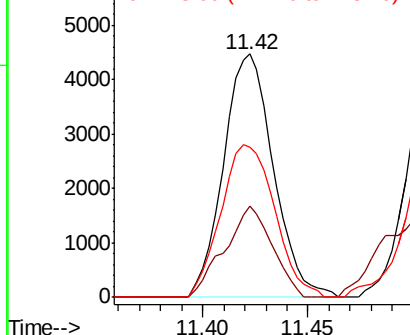
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.4	26.7	49.7
148	61.9	44.1	81.9

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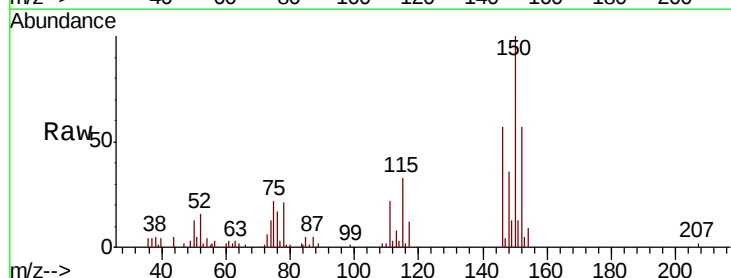


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

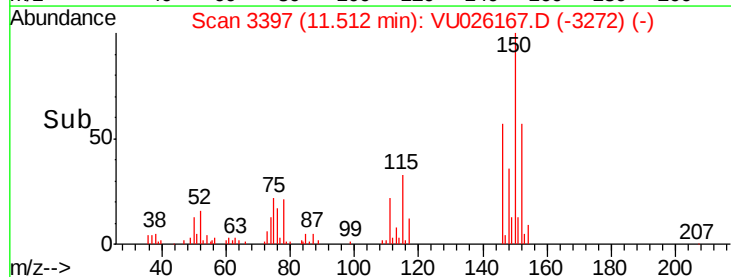
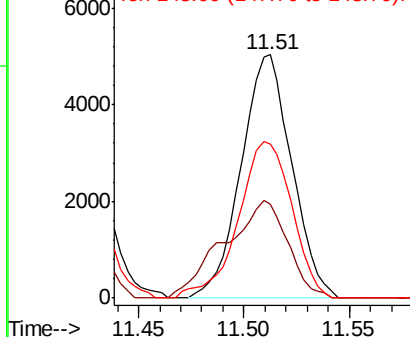


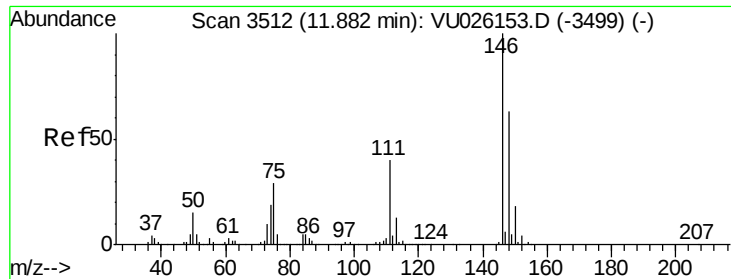
#63
 1,4-Dichlorobenzene
 Concen: 2.47 ug/L
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.5	27.5	51.1
148	63.1	44.8	83.2



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 2.56 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Instrument :

MSVOA_U

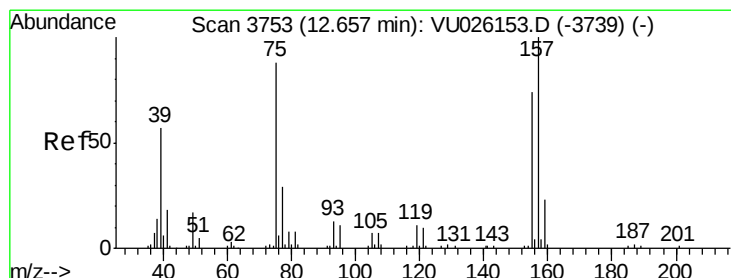
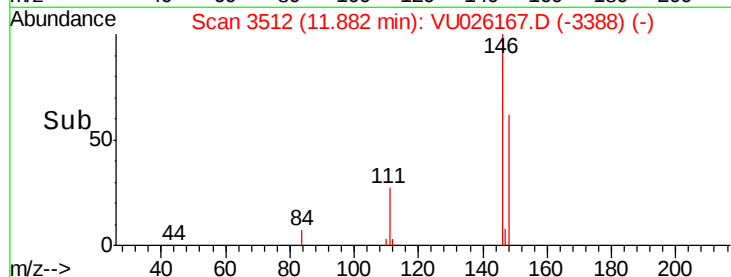
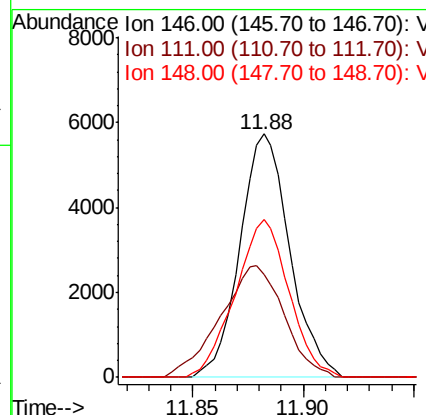
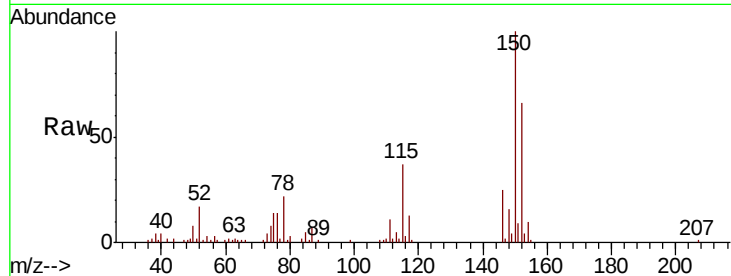
ClientSampled :

MDL05

Tot Ion:	146	Resp:	9012
Ion Ratio	Lower	Upper	
146	100		
111	42.3	32.7	49.1
148	64.6	51.4	77.2

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#66

1,2-Dibromo-3-chloropropane

Concen: 2.78 ug/L

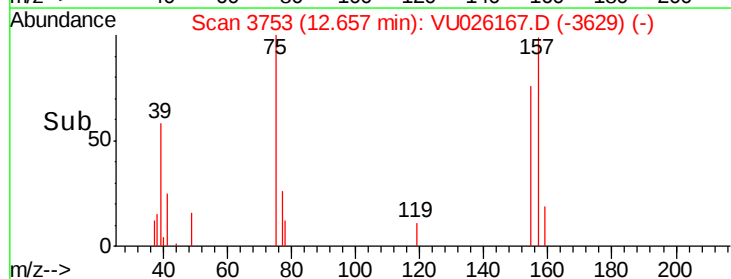
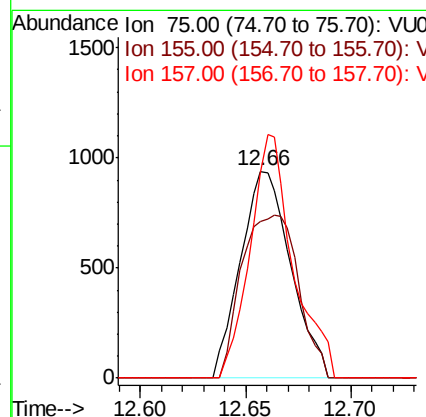
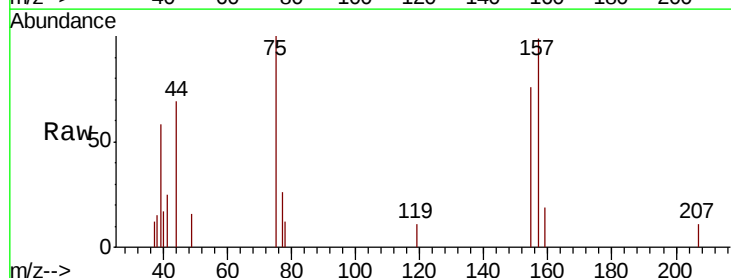
RT: 12.66 min Scan# 3753

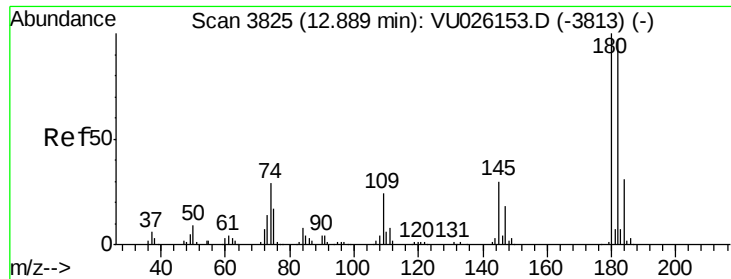
Delta R.T. -0.00 min

Lab File: VU026167.D

Acq: 16 Aug 2018 00:02

Tgt Ion:	75	Resp:	1552
Ion Ratio	Lower	Upper	
75	100		
155	75.8	68.2	102.2
157	99.3	90.5	135.7





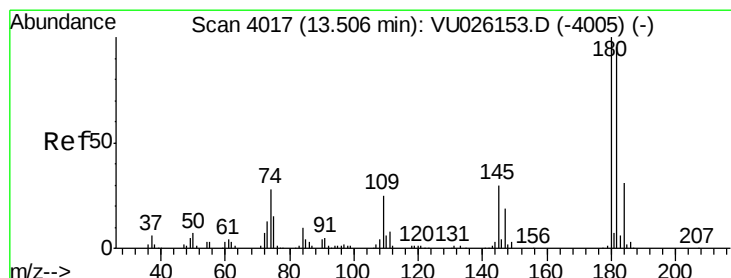
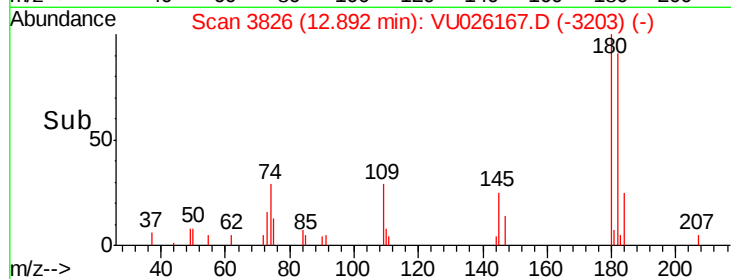
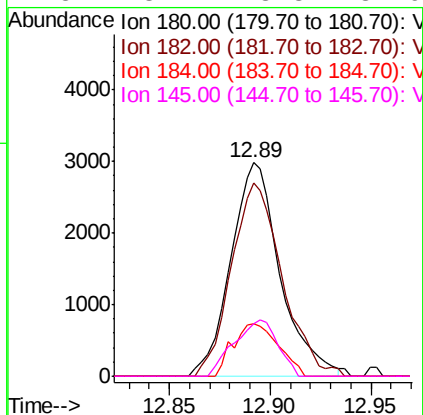
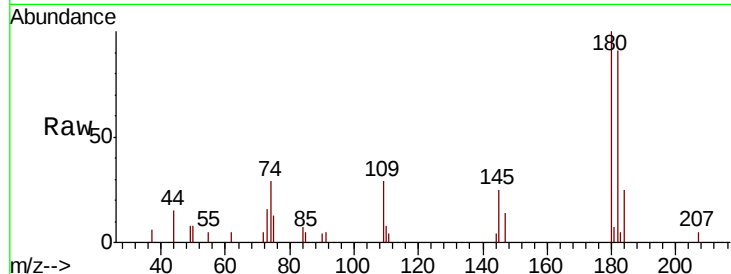
#67
 1,3,5-Trichlorobenzene
 Concen: 2.09 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.1	75.6	113.4
184	22.7	24.3	36.5
145	23.4	23.3	34.9

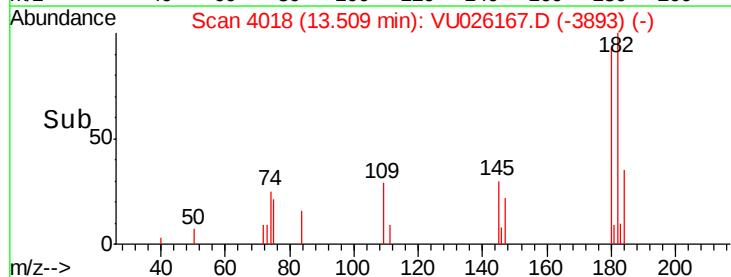
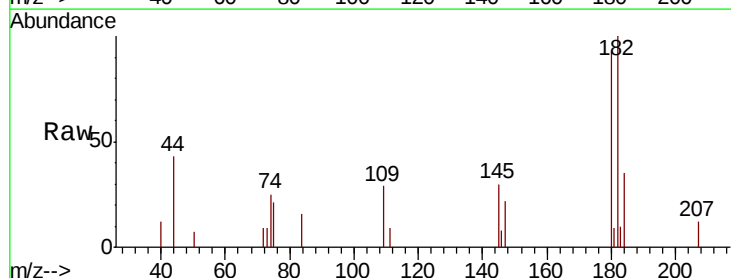
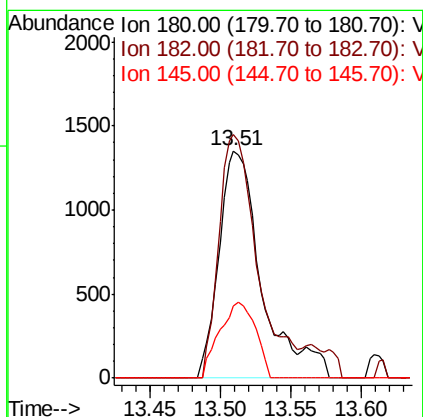
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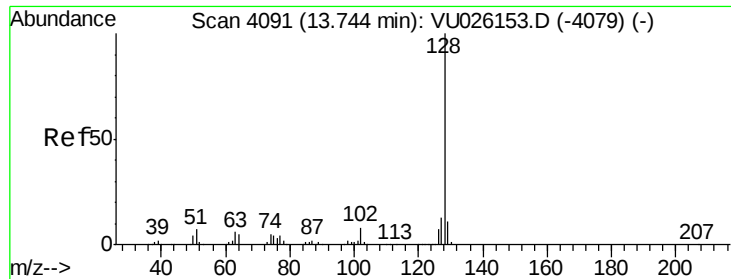
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#68
 1,2,4-trichlorobenzene
 Concen: 1.54 ug/L m
 RT: 13.51 min Scan# 4018
 Delta R.T. 0.00 min
 Lab File: VU026167.D
 Acq: 16 Aug 2018 00:02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.5	76.8	115.2
145	28.0	23.8	35.6





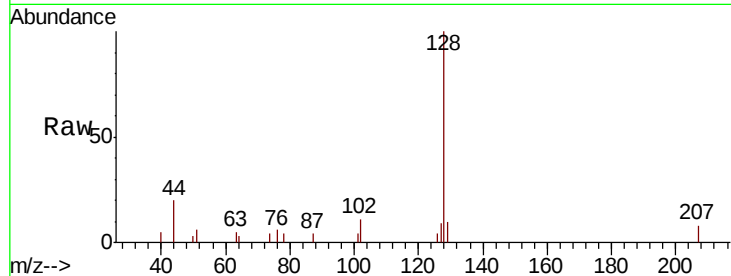
#69
Naphthalene
Concen: 1.51 ug/L m
RT: 13.75 min Scan# 4093
Delta R.T. 0.01 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Instrument :
MSVOA_U
ClientSampleId :
MDL05

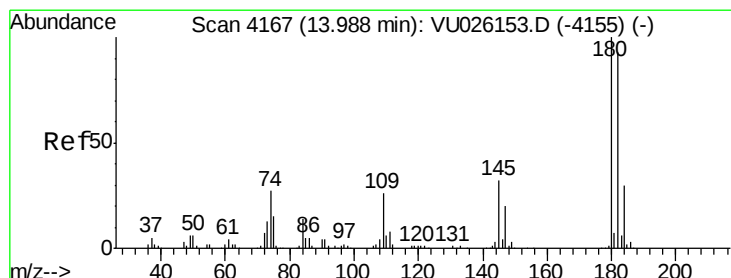
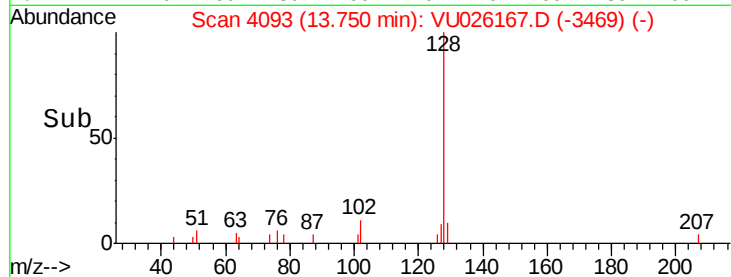
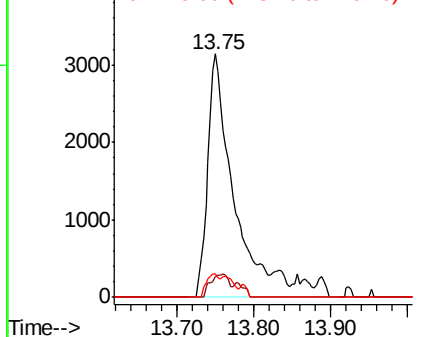
Tot Ion	Ratio	Lower	Upper
128	100		
127	3.8	10.3	15.5#
129	4.7	8.6	13.0#

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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



#70
1,2,3-Trichlorobenzene
Concen: 1.67 ug/L
RT: 13.99 min Scan# 4169
Delta R.T. 0.01 min
Lab File: VU026167.D
Acq: 16 Aug 2018 00:02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	77.1	115.7
145	29.5	25.1	37.7

Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

