

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026157.D
 Acq On : 15 Aug 2018 19:34
 Operator : MD/SY
 Sample : MDL02
 Misc : 5.00uL/5mL/100uL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:18 PM

Quant Time: Aug 16 04:51:15 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	283501	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	267139	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	111899	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	69339	41.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.30%
7) Chloroethane-d5	1.68	69	60520	44.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.46%
11) 1,1-Dichloroethene-d2	2.27	63	110063	33.67	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.34%
21) 2-Butanone-d5	4.18	46	137521	107.67	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.67%
24) Chloroform-d	4.65	84	170637	45.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.52%
26) 1,2-Dichloroethane-d4	5.31	65	114427	46.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.78%
32) Benzene-d6	5.35	84	325595	47.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.54%
36) 1,2-Dichloropropane-d6	6.33	67	106265	46.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.86%
41) Toluene-d8	7.57	98	299176	45.38	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.76%
43) trans-1,3-Dichloropropene-	7.85	79	48959	45.67	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.34%
47) 2-Hexanone-d5	8.31	63	96650	104.18	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.18%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	148764	46.68	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.36%
64) 1,2-Dichlorobenzene-d4	11.86	152	114874	49.33	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.66%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	4217	1.88	ug/L	94
3) Chloromethane	1.33	50	4760	2.33	ug/L	95
5) Vinyl chloride	1.40	62	4165	2.04	ug/L #	64
6) Bromomethane	1.62	94	2305	2.19	ug/L	87
8) Chloroethane	1.70	64	2426	1.99	ug/L	99
9) Trichlorofluoromethane	1.89	101	5616	1.86	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	3988	2.44	ug/L #	81
12) 1,1-Dichloroethene	2.28	96	3940	2.63	ug/L #	1
13) Acetone	2.32	43	5132	4.39	ug/L	90
14) Carbon disulfide	2.48	76	9766	1.88	ug/L	96
15) Methyl Acetate	2.62	43	5395	2.66	ug/L	91
16) Methylene chloride	2.71	84	4463	2.22	ug/L	95
17) trans-1,2-Dichloroethene	2.98	96	3382	1.90	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	10468	1.86	ug/L	97
19) 1,1-Dichloroethane	3.45	63	6695	1.96	ug/L #	91
20) cis-1,2-Dichloroethene	4.23	96	3937	1.98	ug/L	92
22) 2-Butanone	4.27	43	5404	3.71	ug/L #	72

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	2004	1.86	ug/L #	92
25) Chloroform	4.68	83	8711	2.43	ug/L	96
27) 1,2-Dichloroethane	5.41	62	6420	2.21	ug/L	97
29) Cyclohexane	5.00	56	4563	1.71	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	6500	2.04	ug/L	98
31) Carbon tetrachloride	5.14	117	5754	1.99	ug/L	97
33) Benzene	5.39	78	13815	1.91	ug/L	100
34) Trichloroethene	6.19	95	3521	1.87	ug/L	97
35) Methylcyclohexane	6.42	83	5158	1.82	ug/L	99
37) 1,2-Dichloropropane	6.44	63	3988	1.97	ug/L #	92
38) Bromodichloromethane	6.76	83	5011	1.87	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	5851	1.95	ug/L	92
40) 4-Methyl-2-pentanone	7.46	43	9621	3.84	ug/L	98
42) Toluene	7.64	91	14995	1.95	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	5488	1.90	ug/L	94
45) 1,1,2-Trichloroethane	8.07	97	3929	2.05	ug/L	95
46) Tetrachloroethene	8.23	164	3080	1.90	ug/L	87
48) 2-Hexanone	8.37	43	9231	4.70	ug/L #	97
49) Dibromochloromethane	8.48	129	4373	1.90	ug/L	82
50) 1,2-Dibromoethane	8.59	107	4116	2.07	ug/L #	98
51) Chlorobenzene	9.12	112	10687	2.04	ug/L	96
52) Ethylbenzene	9.26	91	14143	1.69	ug/L	96
53) m,p-Xylene	9.38	106	4873	1.51	ug/L	85
54) o-xylene	9.79	106	5062	1.57	ug/L	88
55) Styrene	9.80	104	8233	1.54	ug/L	96
56) Isopropylbenzene	10.17	105	12785	1.55	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	7104	2.22	ug/L #	94
59) 1,2,3-Trichloropropane	10.50	75	4984	2.00	ug/L	96
61) Bromoform	9.96	173	3301	2.26	ug/L #	90
62) 1,3-Dichlorobenzene	11.42	146	6019	1.79	ug/L	97
63) 1,4-Dichlorobenzene	11.51	146	6544	1.89	ug/L	86
65) 1,2-Dichlorobenzene	11.89	146	8157	2.28	ug/L	94
66) 1,2-Dibromo-3-chloropropan	12.66	75	1163	2.05	ug/L	89
67) 1,3,5-Trichlorobenzene	12.90	180	4183	1.69	ug/L #	94
68) 1,2,4-trichlorobenzene	13.51	180	2825m	1.51	ug/L	
69) Naphthalene	13.75	128	6825m	1.28	ug/L	
70) 1,2,3-Trichlorobenzene	13.99	180	2960m	1.47	ug/L	

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

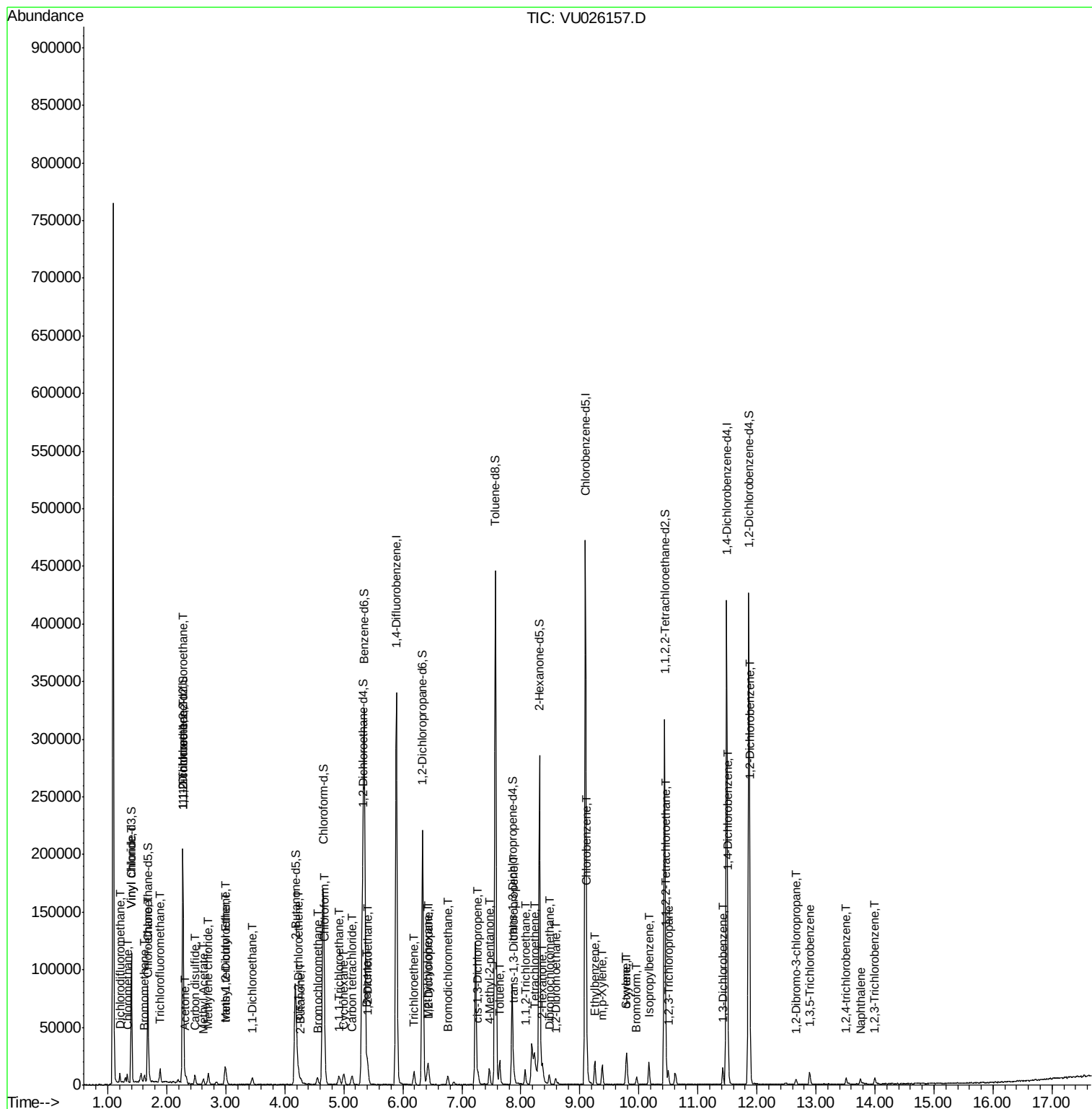
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU081518\
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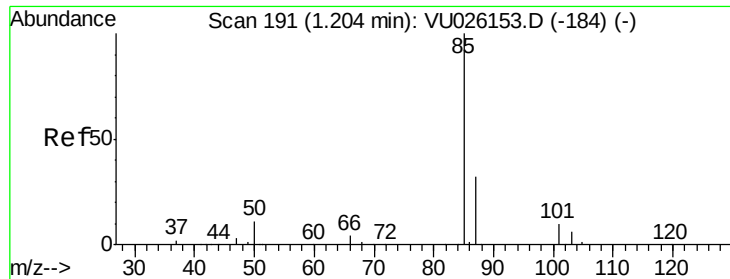
Instrument :
MSVOA_U
ClientSampleId :
MDL02

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#2

Dichlorodifluoromethane

Concen: 1.88 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 85 Resp: 4217

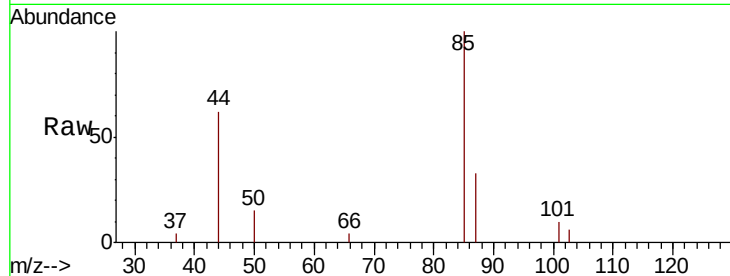
Ion Ratio Lower Upper

85 100

87 29.4 26.1 39.1

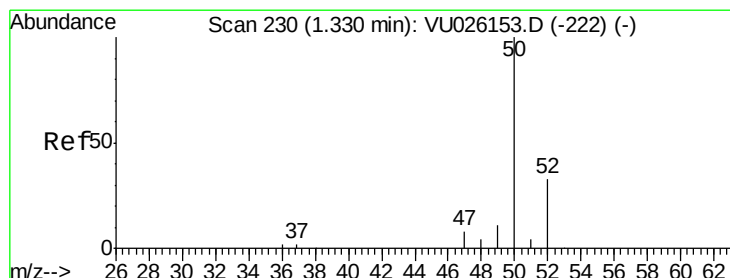
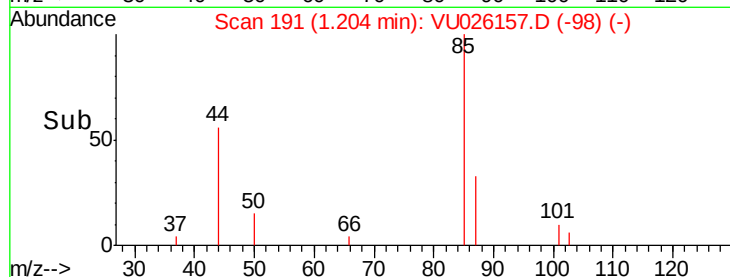
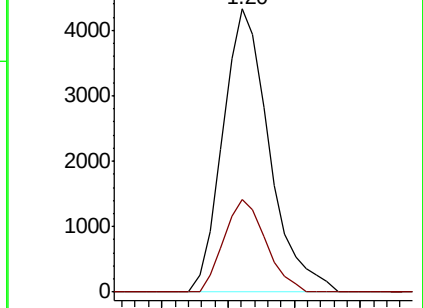
Manual Integrations
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Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 2.33 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026157.D

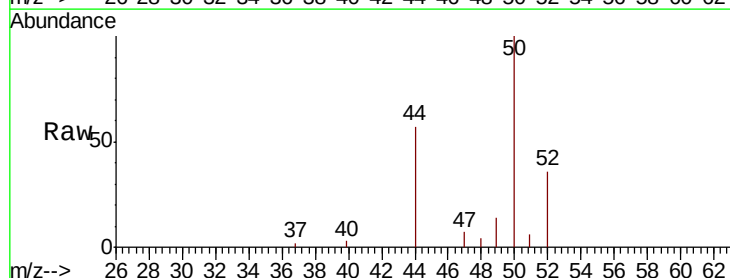
Acq: 15 Aug 2018 19:34

Tgt Ion: 50 Resp: 4760

Ion Ratio Lower Upper

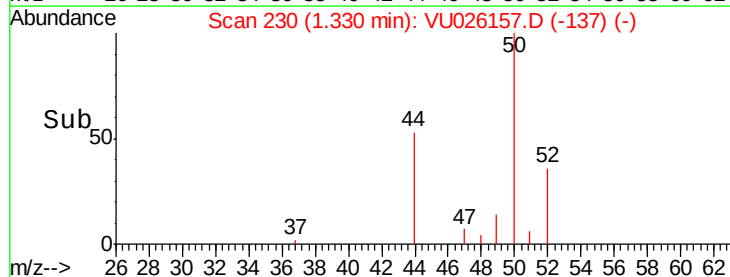
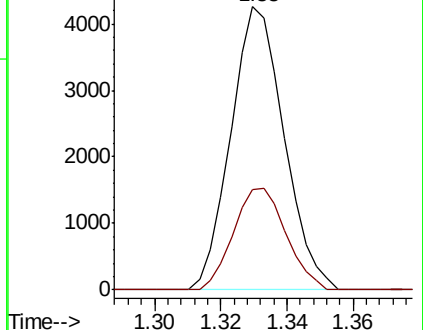
50 100

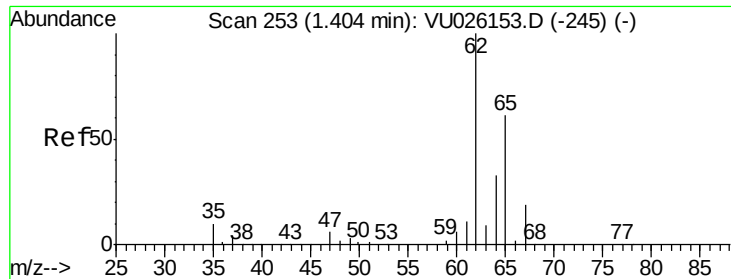
52 35.5 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 2.04 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 62 Resp: 4165

Ion Ratio Lower Upper

62 100

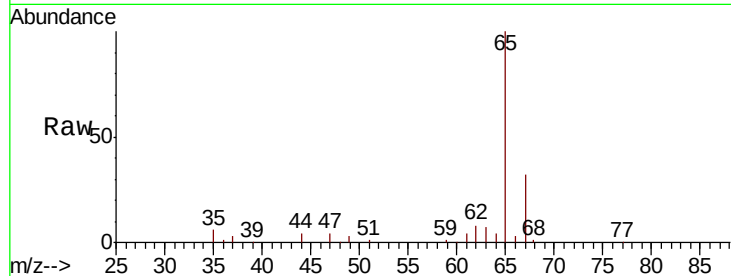
64 53.2 23.0 42.8#

Manual Integrations

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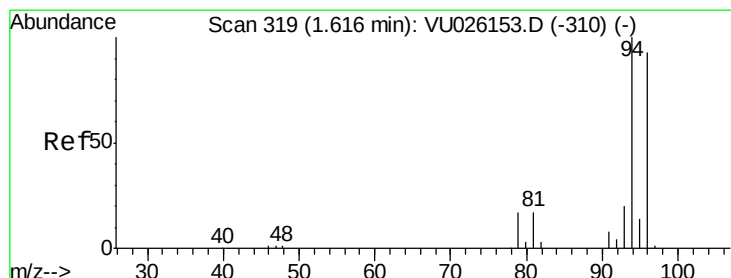
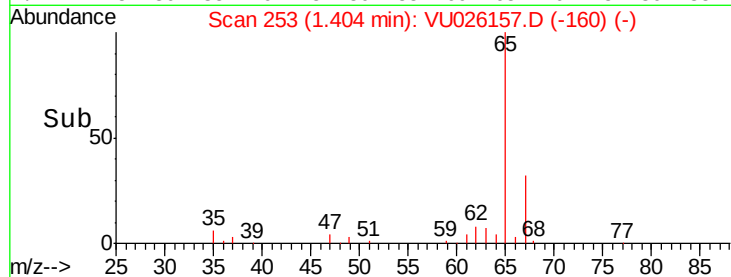
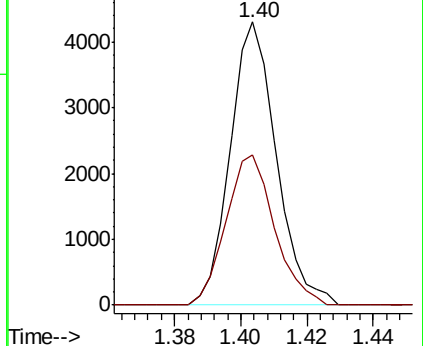
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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.19 ug/L

RT: 1.62 min Scan# 321

Delta R.T. 0.01 min

Lab File: VU026157.D

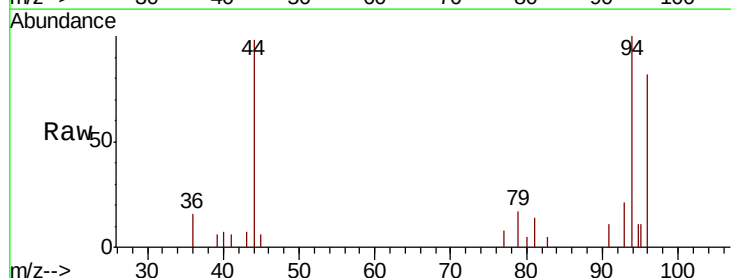
Acq: 15 Aug 2018 19:34

Tgt Ion: 94 Resp: 2305

Ion Ratio Lower Upper

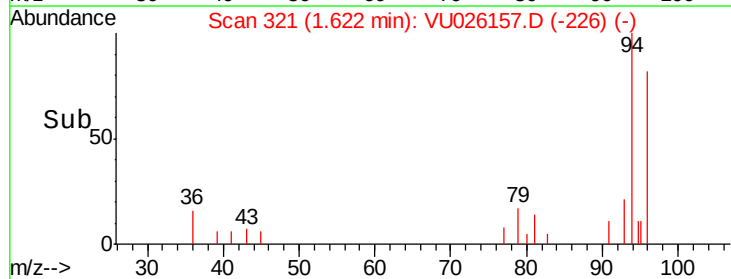
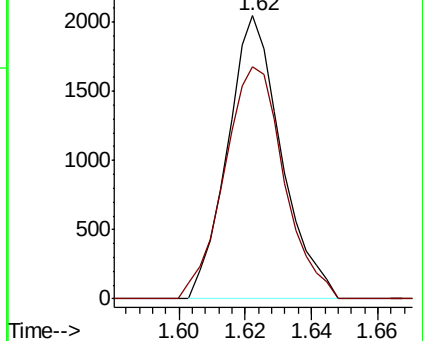
94 100

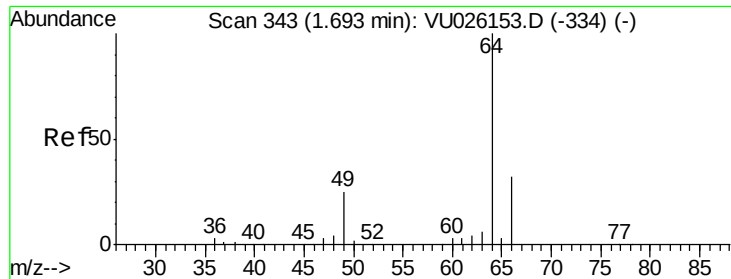
96 82.1 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 1.99 ug/L

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 64 Resp: 2426

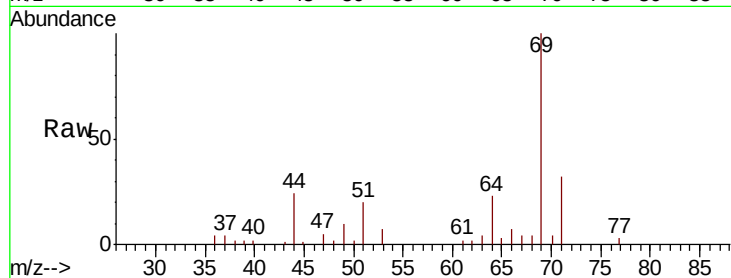
Ion Ratio Lower Upper

64 100

66 32.3 22.2 41.2

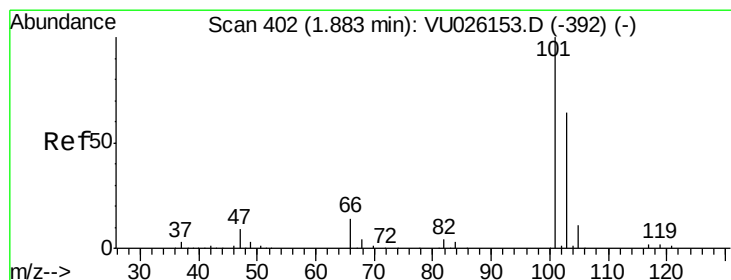
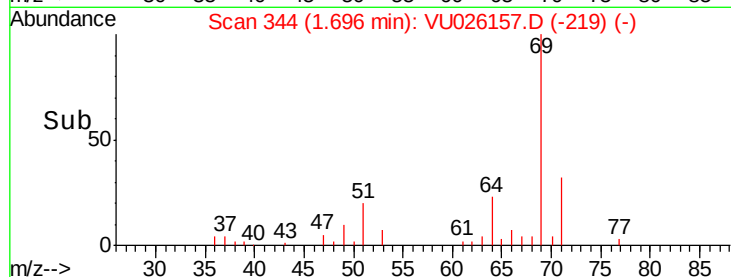
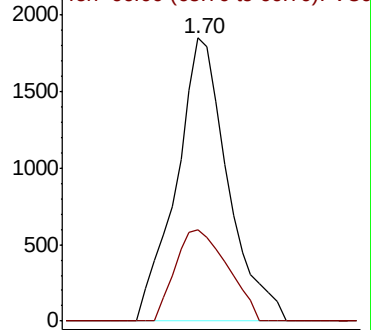
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Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0



#9

Trichlorofluoromethane

Concen: 1.86 ug/L

RT: 1.89 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU026157.D

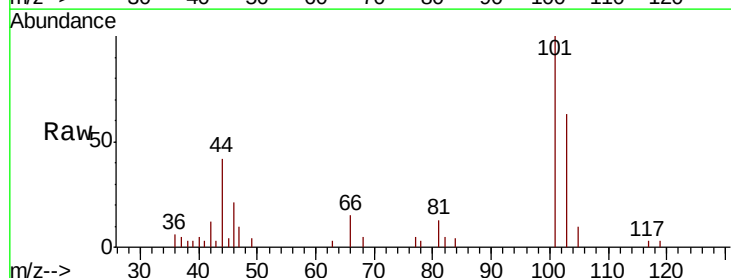
Acq: 15 Aug 2018 19:34

Tgt Ion:101 Resp: 5616

Ion Ratio Lower Upper

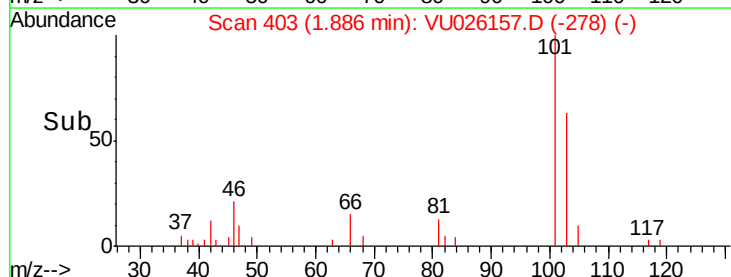
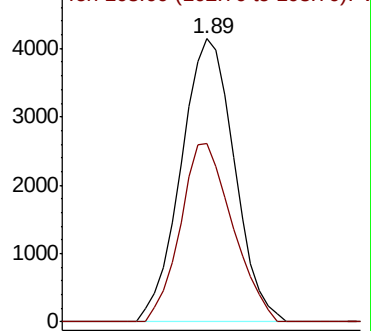
101 100

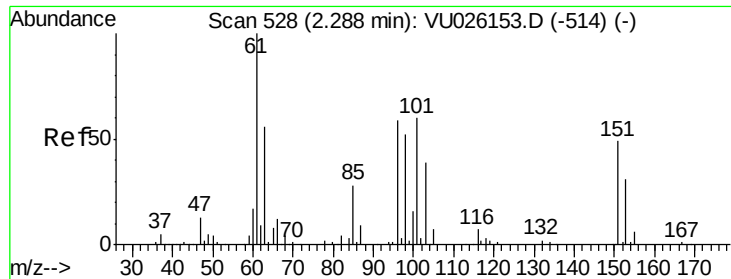
103 61.8 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 2.44 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_U

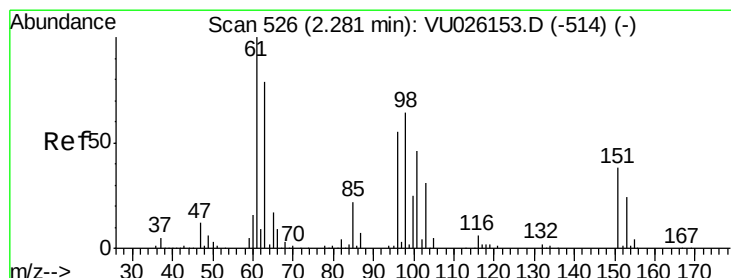
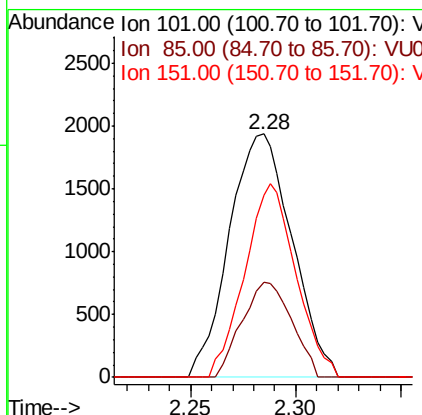
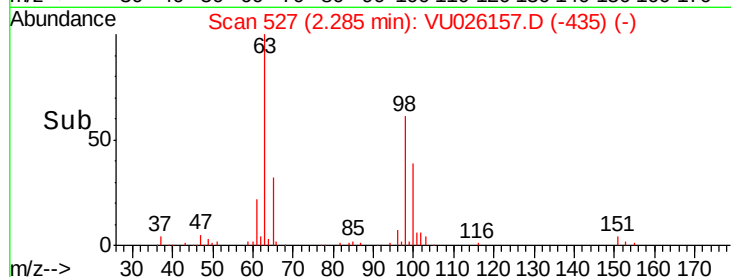
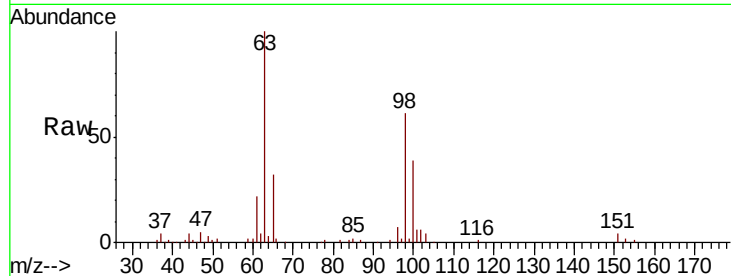
ClientSampleID :

MDL02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	3988		
85	31.1		36.6	55.0#
151	64.8		63.8	95.8

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 2.63 ug/L

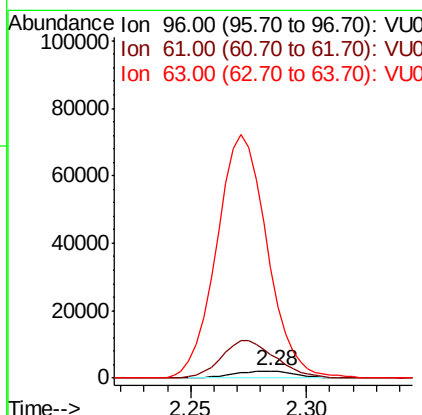
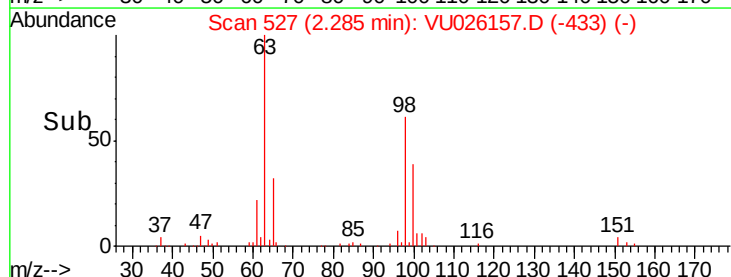
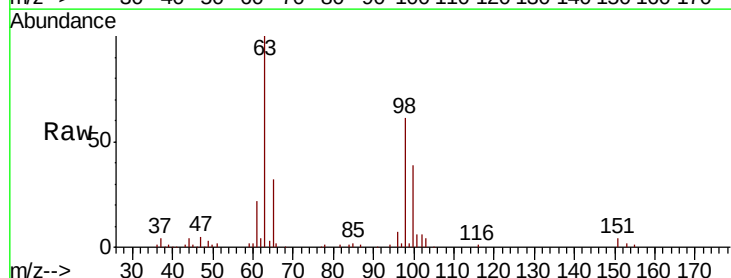
RT: 2.28 min Scan# 527

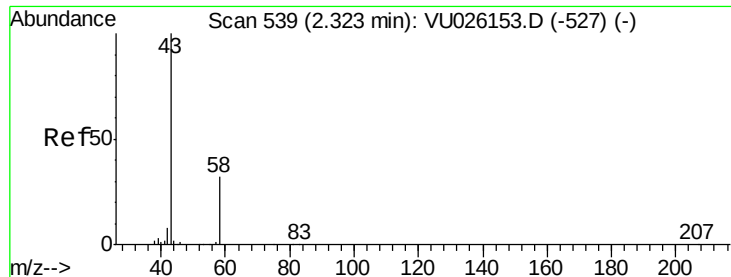
Delta R.T. 0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	3940		
61	332.3		126.8	235.4#
63	1525.3		97.0	180.2#





#13

Acetone

Concen: 4.39 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 5132

Ion Ratio Lower Upper

43 100

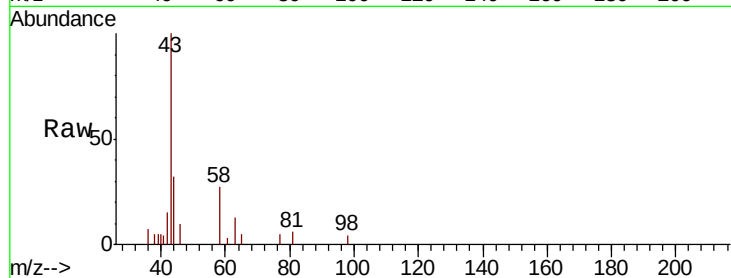
58 25.7 0.0 62.6

Manual Integrations

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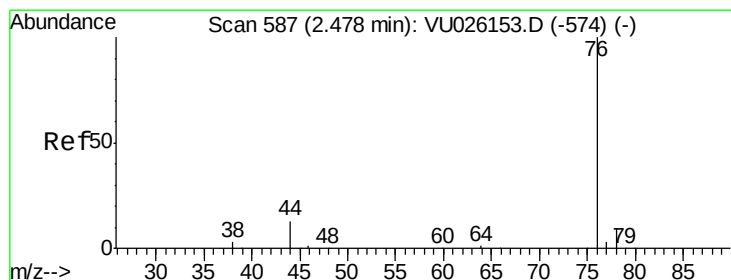
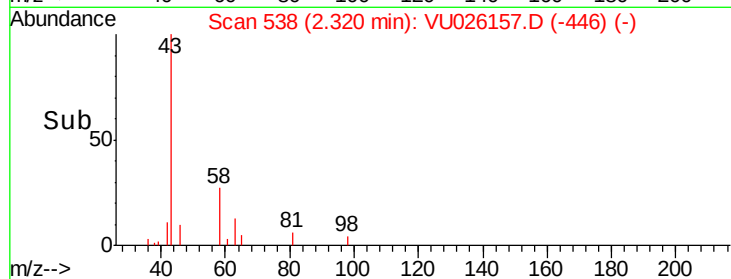
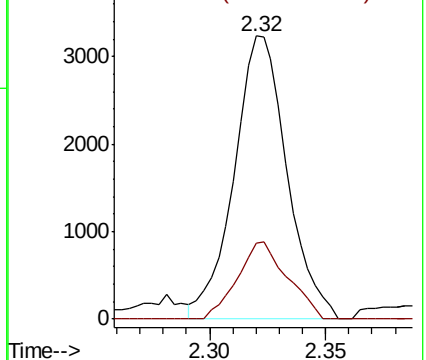
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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 1.88 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU026157.D

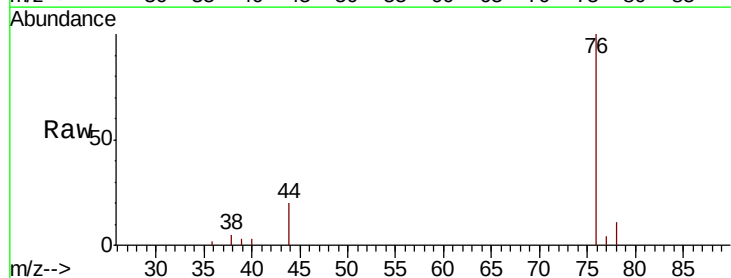
Acq: 15 Aug 2018 19:34

Tgt Ion: 76 Resp: 9766

Ion Ratio Lower Upper

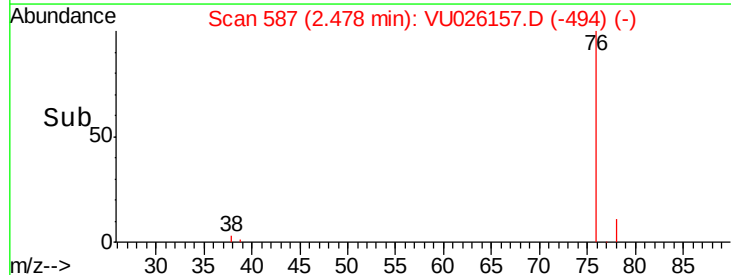
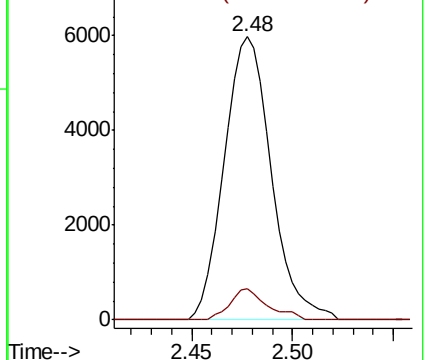
76 100

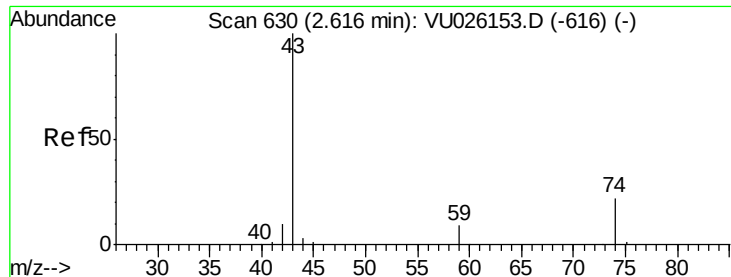
78 10.9 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





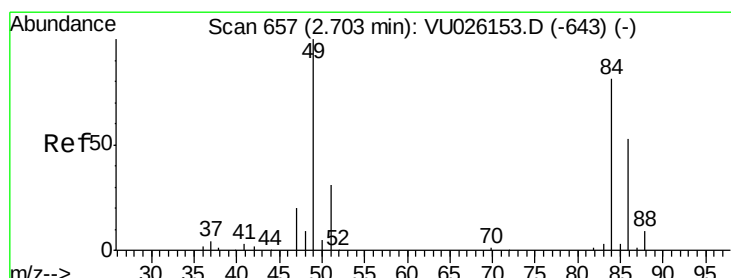
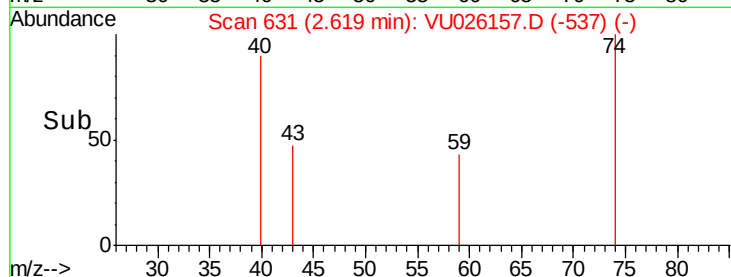
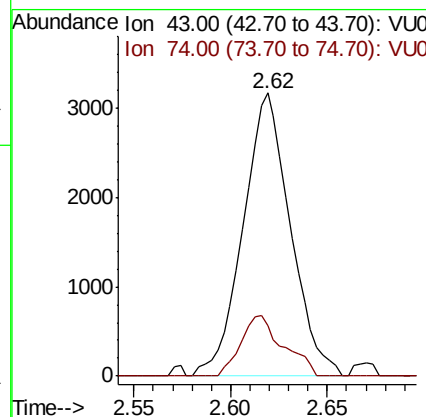
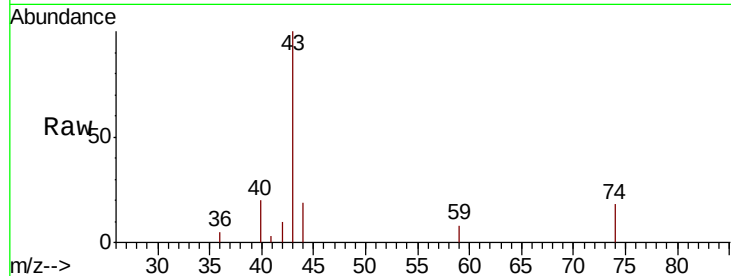
#15
Methvl Acetate
Concen: 2.66 ug/L
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion: 43 Resp: 5395
Ion Ratio Lower Upper
43 100
74 19.1 18.6 28.0

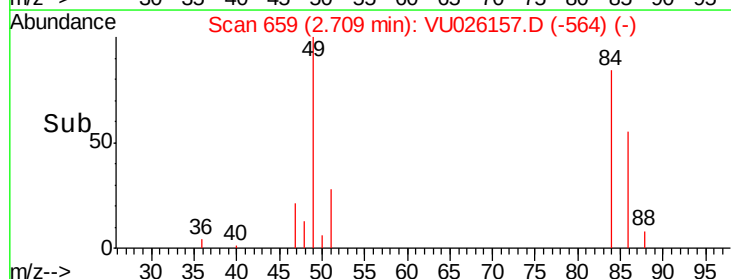
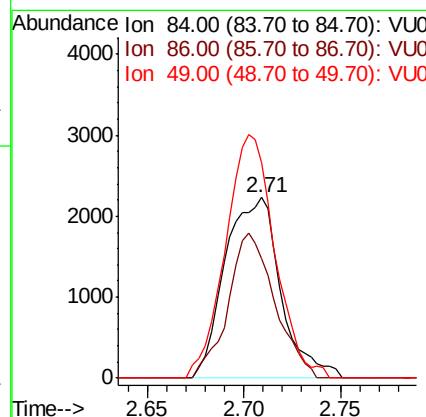
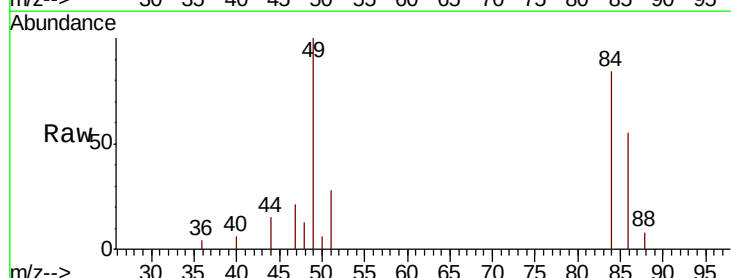
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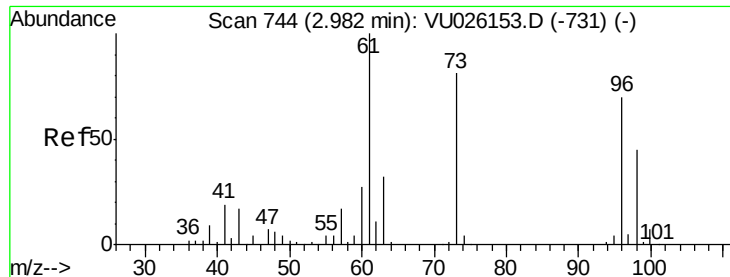
MMDadoda
8/16/2018 4:20:18 PM



#16
Methylene chloride
Concen: 2.22 ug/L
RT: 2.71 min Scan# 659
Delta R.T. 0.01 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Tgt Ion: 84 Resp: 4463
Ion Ratio Lower Upper
84 100
86 66.1 44.0 81.6
49 119.6 87.7 162.9





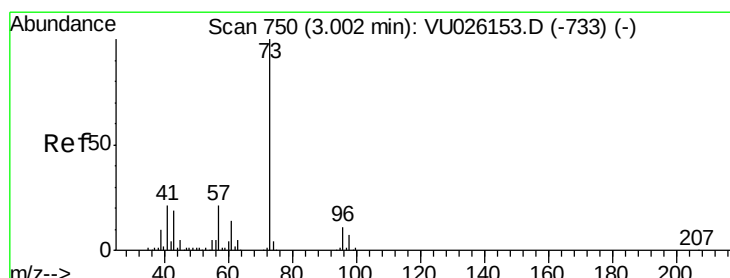
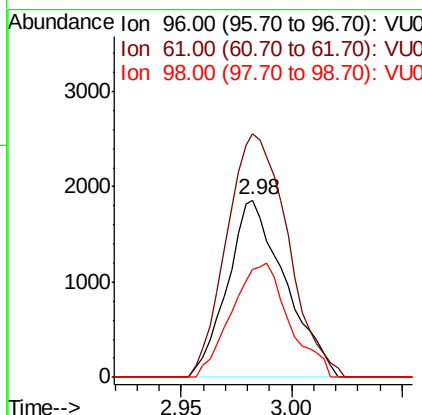
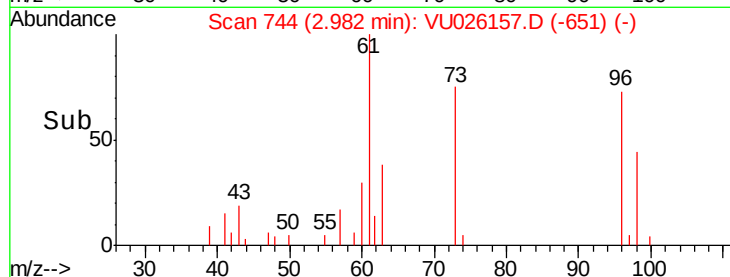
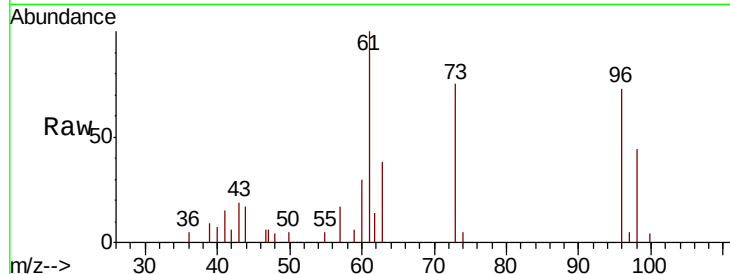
#17
trans-1,2-Dichloroethene
Concen: 1.90 ug/L
RT: 2.98 min Scan# 744
Delta R.T. -0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.5	96.7	179.5
98	60.7	43.6	81.0

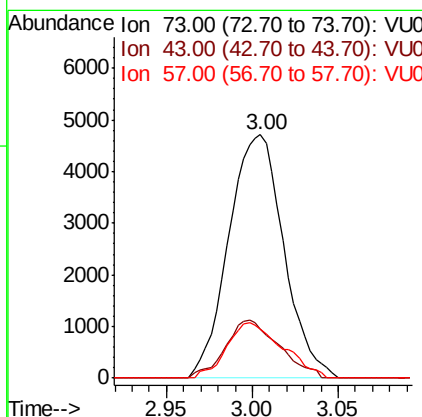
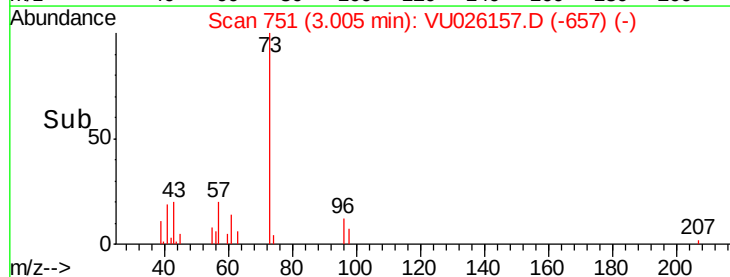
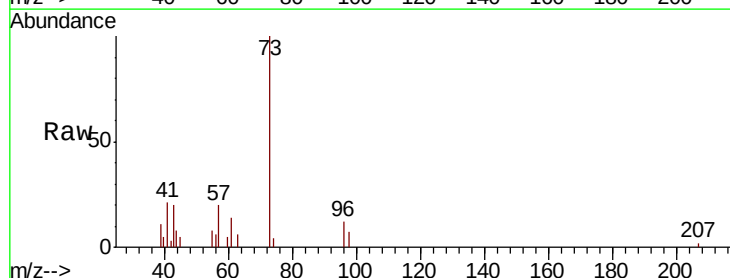
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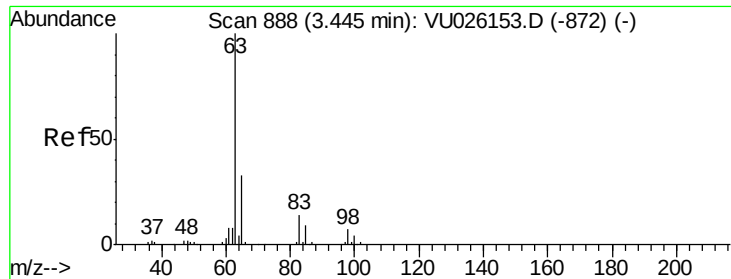
MMDadoda
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#18
Methyl tert-butyl Ether
Concen: 1.86 ug/L
RT: 3.00 min Scan# 751
Delta R.T. 0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Tgt Ion	Ratio	Lower	Upper
73	100		
43	23.3	16.2	24.4
57	23.1	18.2	27.2





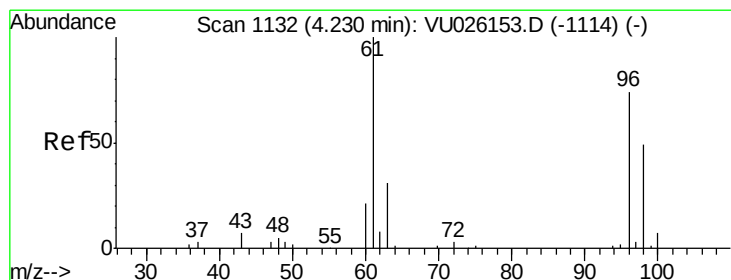
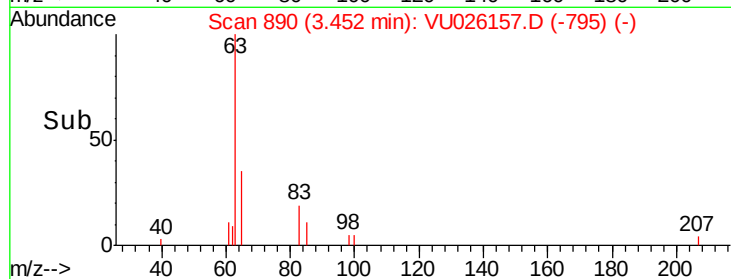
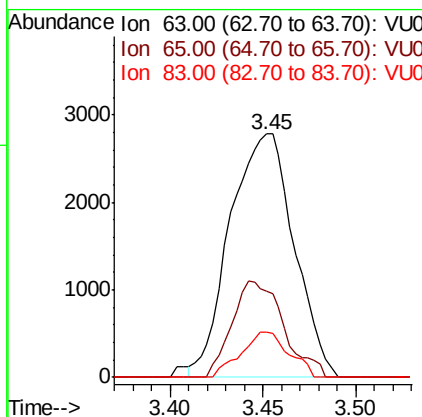
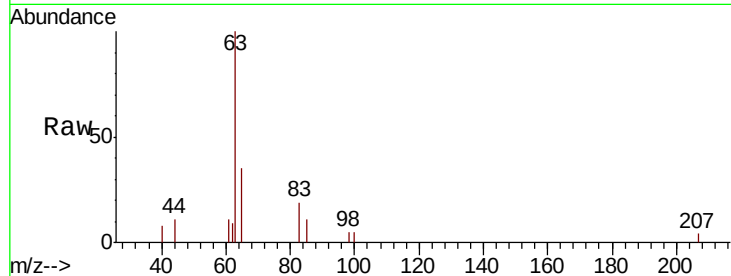
#19
1,1-Dichloroethane
Concen: 1.96 ug/L
RT: 3.45 min Scan# 890
Delta R.T. 0.01 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
63	100		
65	35.4	22.1	41.1
83	18.7	9.4	17.4

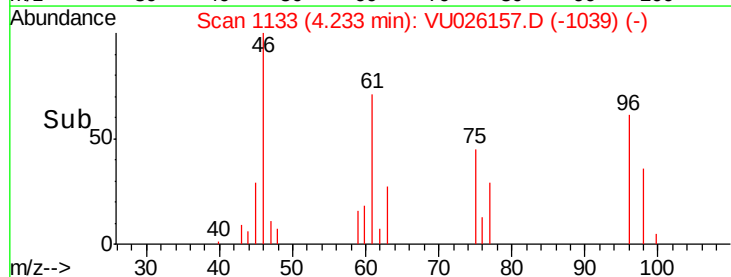
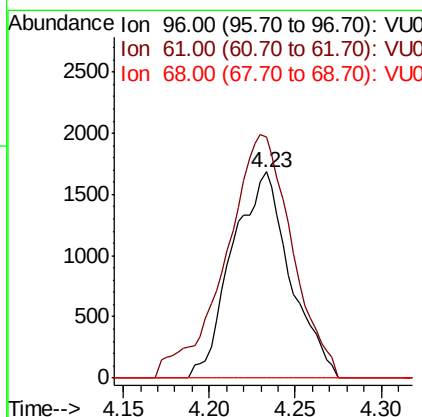
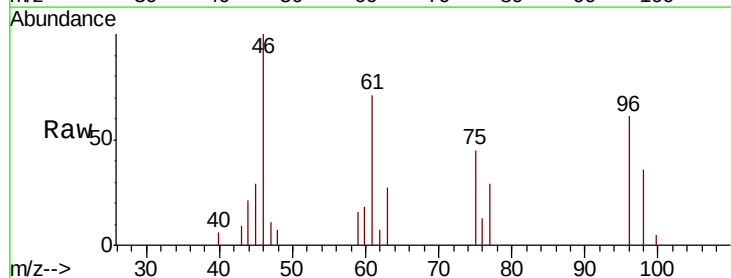
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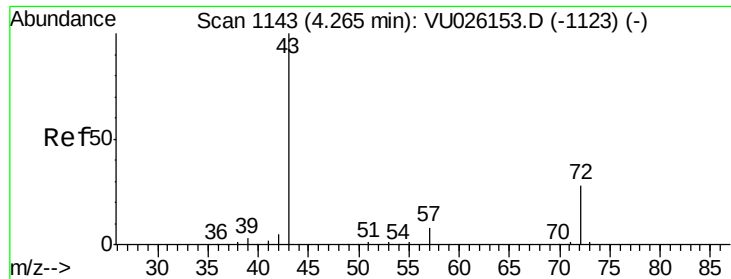
MMDadoda
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#20
cis-1,2-Dichloroethene
Concen: 1.98 ug/L
RT: 4.23 min Scan# 1133
Delta R.T. 0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	117.4	88.6	164.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.71 ug/L

RT: 4.27 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 43 Resp: 5404

Ion Ratio Lower Upper

43 100

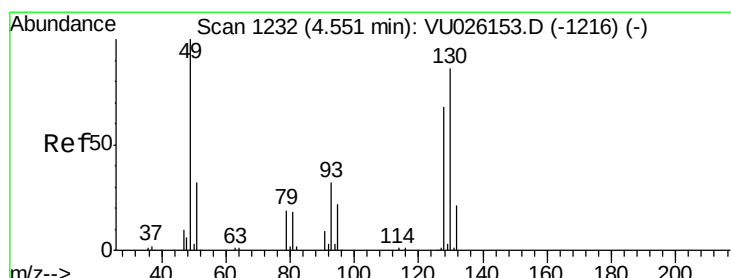
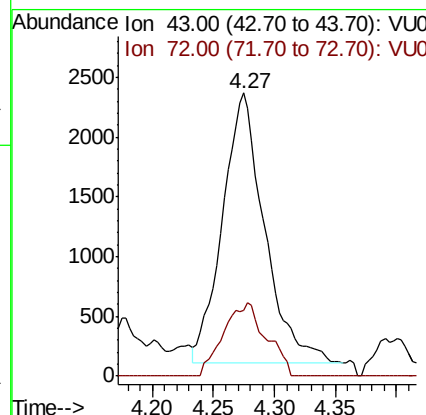
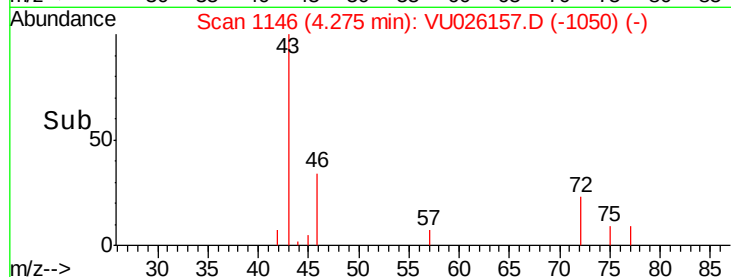
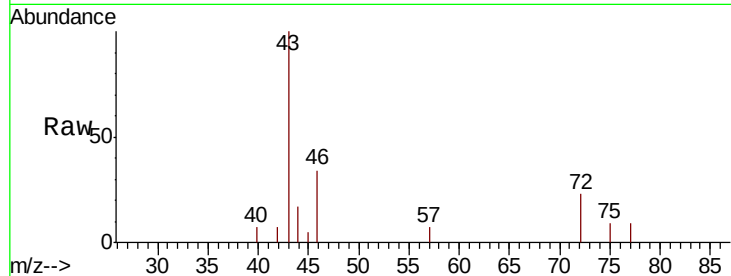
72 12.2 13.4 40.1#

Manual Integrations

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MMDadoda

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#23

Bromochloromethane

Concen: 1.86 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Tgt Ion: 128 Resp: 2004

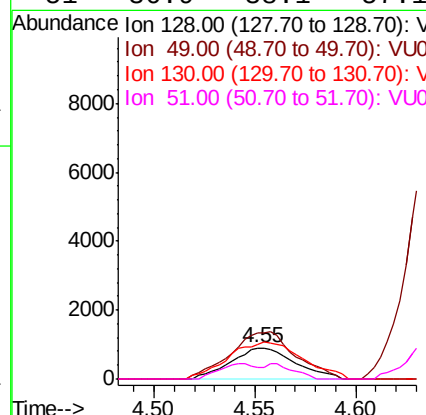
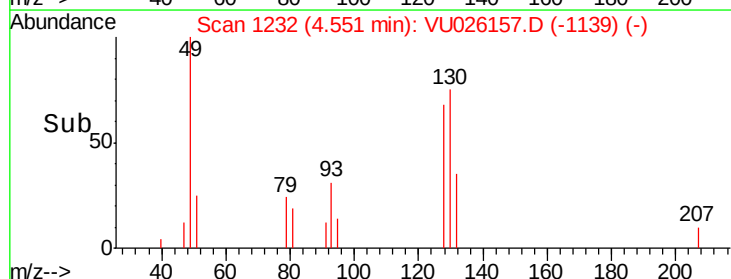
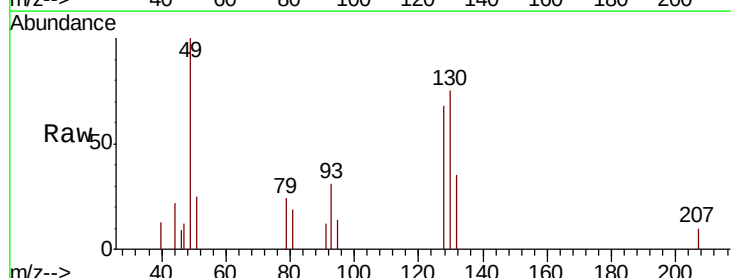
Ion Ratio Lower Upper

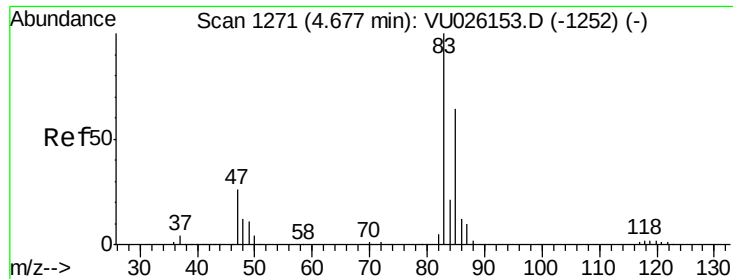
128 100

49 146.5 101.3 188.1

130 110.2 86.4 160.4

51 36.9 38.1 57.1#





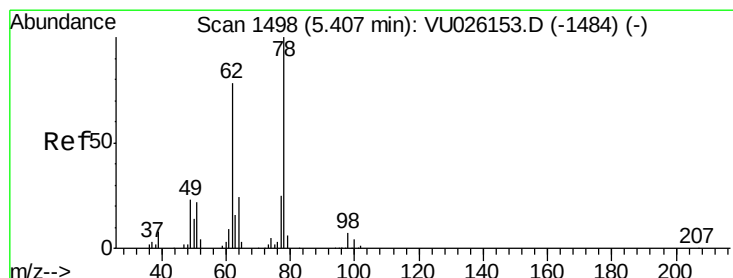
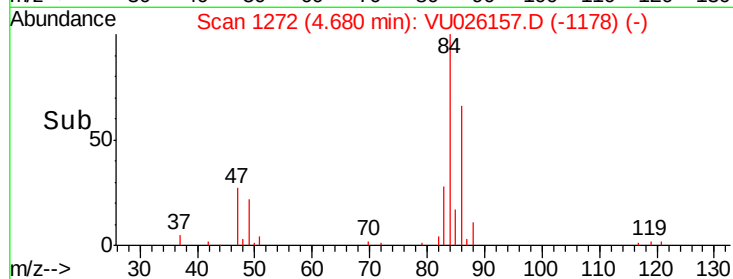
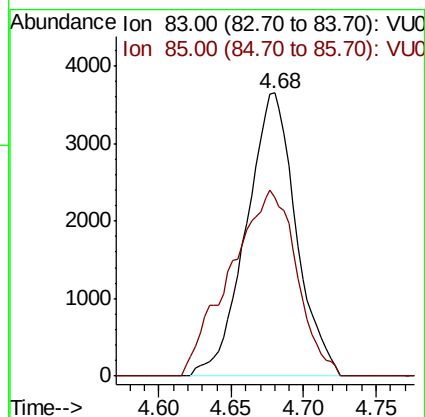
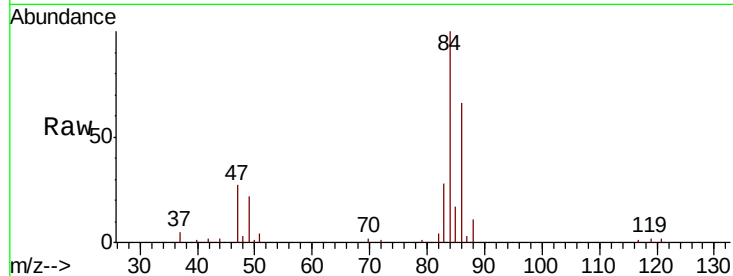
#25
Chloroform
Concen: 2.43 ug/L
RT: 4.68 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	83	Resp	8711
Ion Ratio	100	Lower	Upper
85	63.0	46.3	86.1

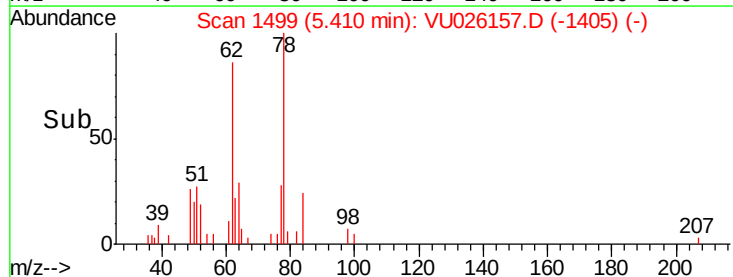
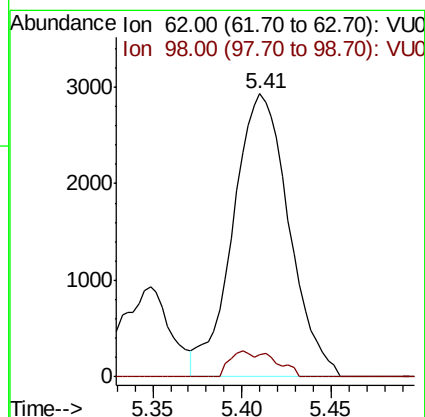
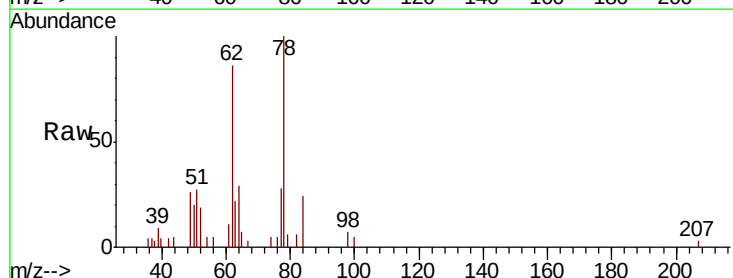
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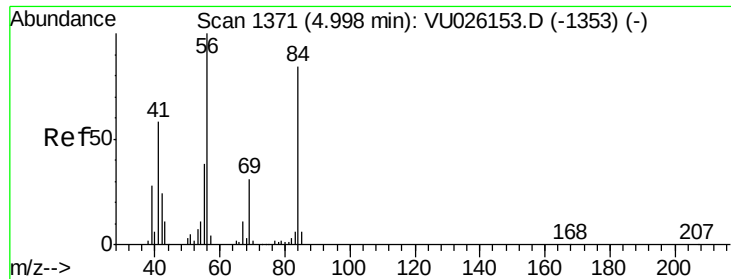
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.21 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Tgt Ion	62	Resp	6420
Ion Ratio	100	Lower	Upper
98	7.6	7.0	10.4





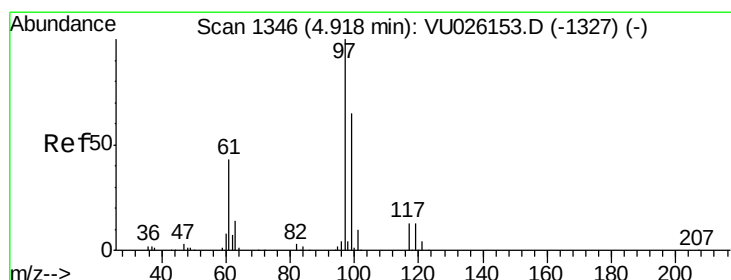
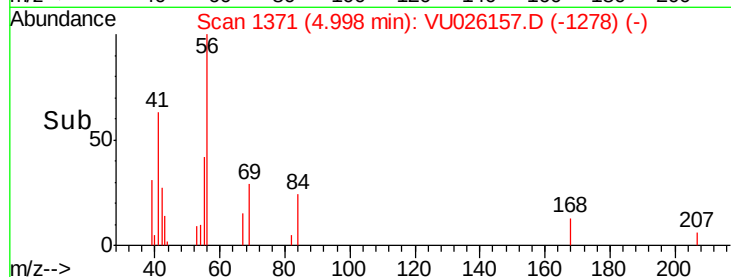
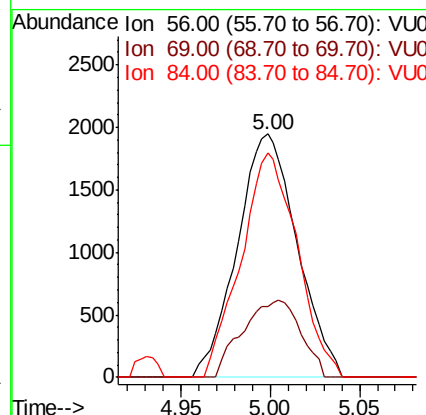
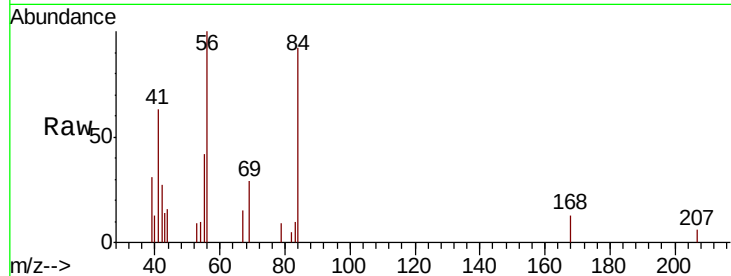
#29
Cyclohexane
Concen: 1.71 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.7	24.1	36.1
84	86.6	68.6	102.8

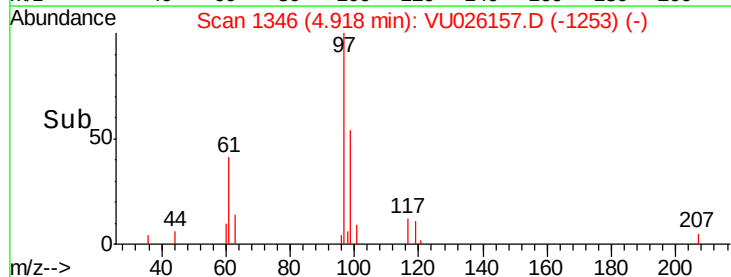
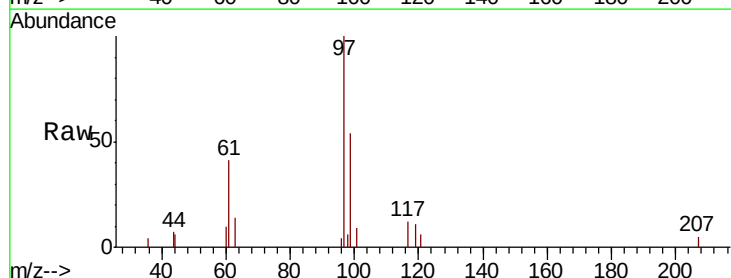
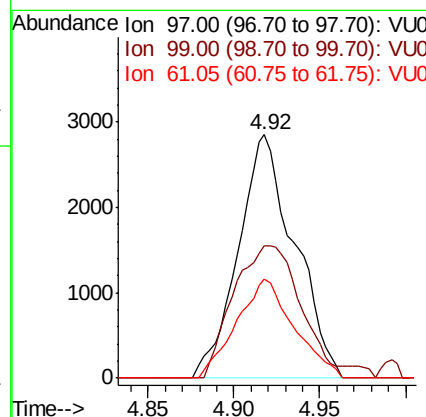
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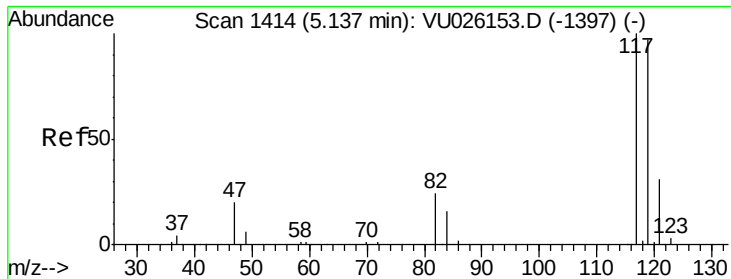
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.04 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.9	52.2	78.2
61	41.5	35.4	53.0





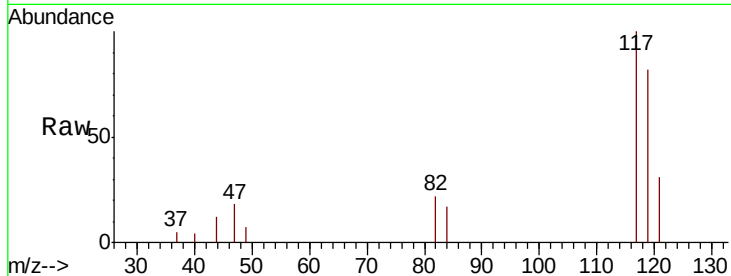
#31
Carbon tetrachloride
Concen: 1.99 ug/L
RT: 5.14 min Scan# 1415
Delta R.T. 0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Instrument :
MSVOA_U
ClientSampleId :
MDL02

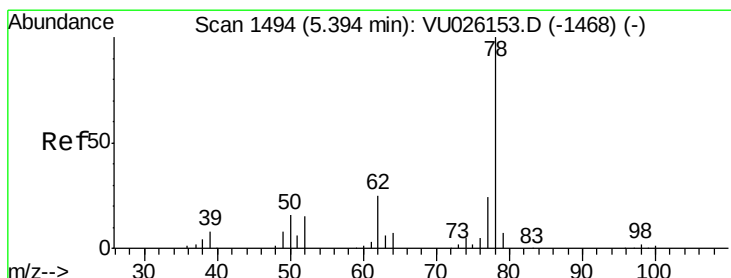
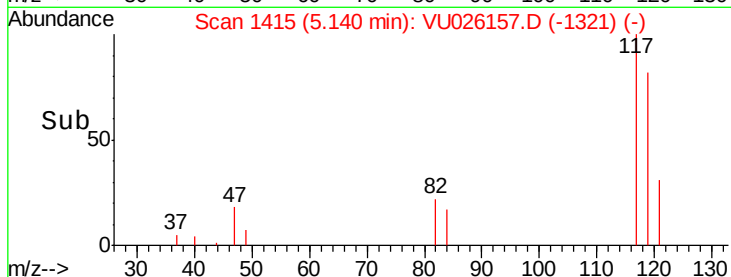
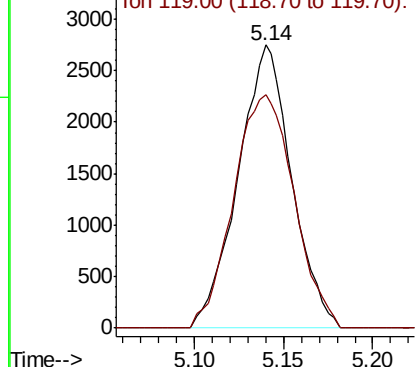
Tot Ion:117 Resp: 5754
Ion Ratio Lower Upper
117 100
119 93.4 77.4 116.2

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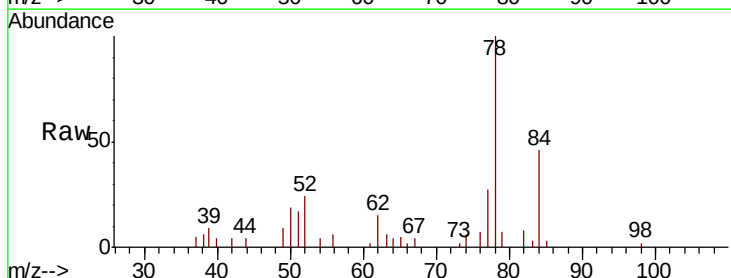


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

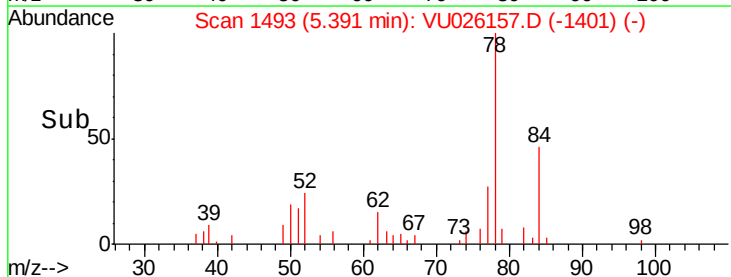
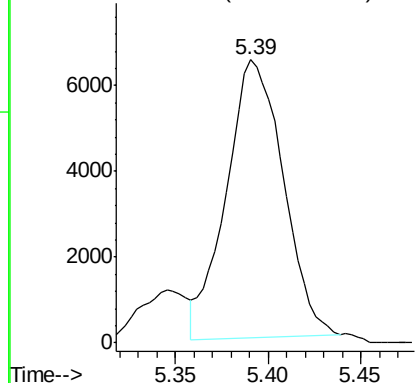


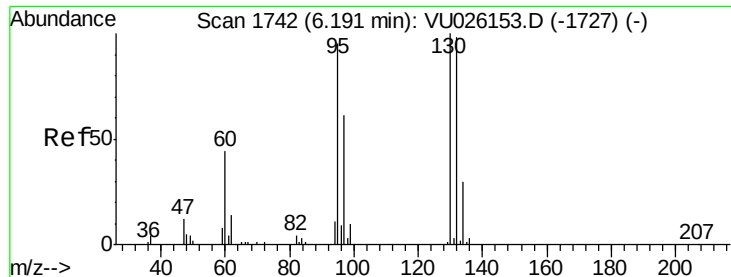
#33
Benzene
Concen: 1.91 ug/L
RT: 5.39 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Tgt Ion: 78 Resp: 13815



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 1.87 ug/L

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_U

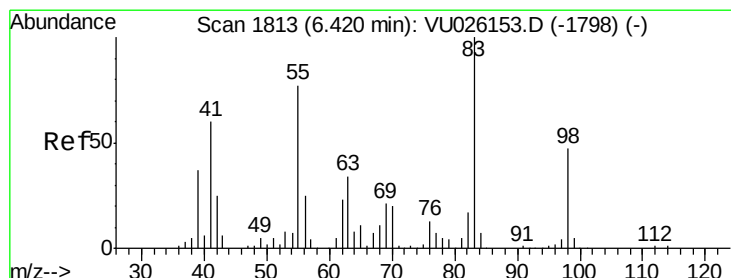
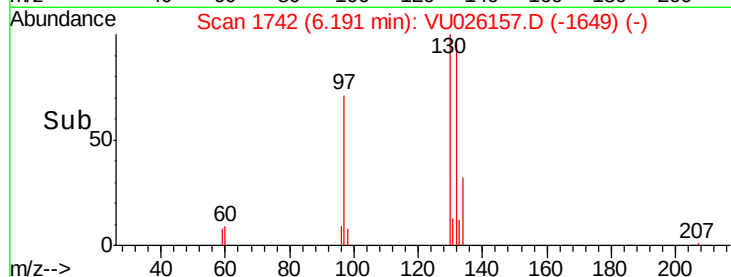
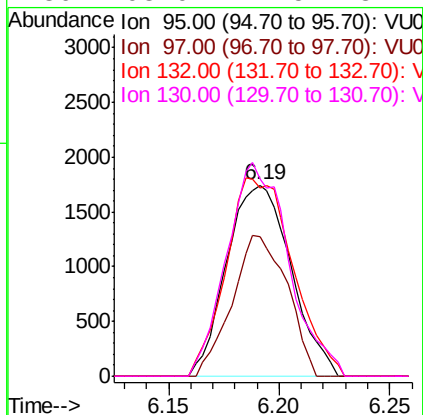
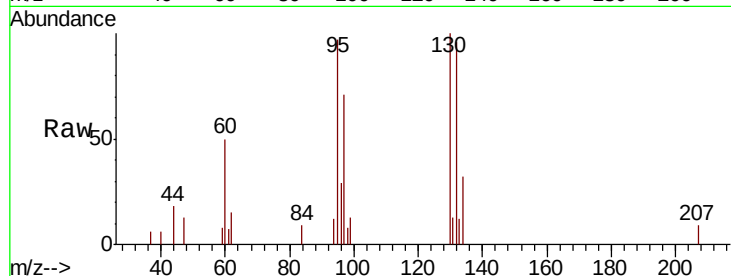
ClientSampleId :

MDL02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
95	100		3521		
97	73.2	45.7	84.9		
132	98.5	68.8	127.8		
130	103.0	71.5	132.7		

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#35

Methylcyclohexane

Concen: 1.82 ug/L

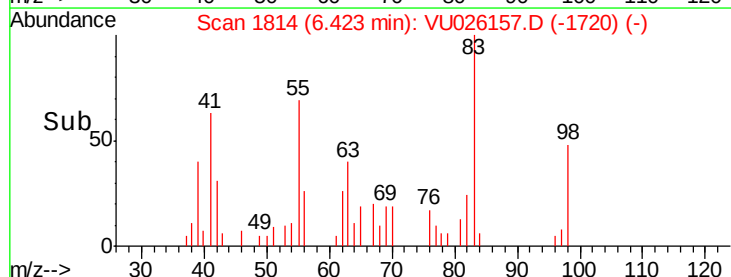
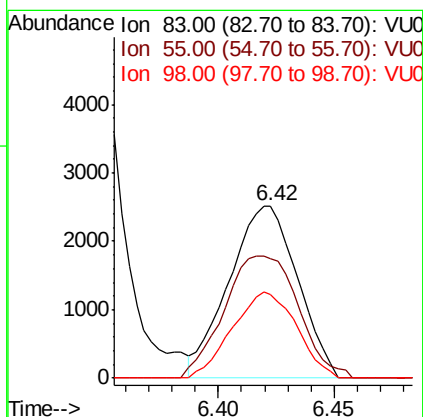
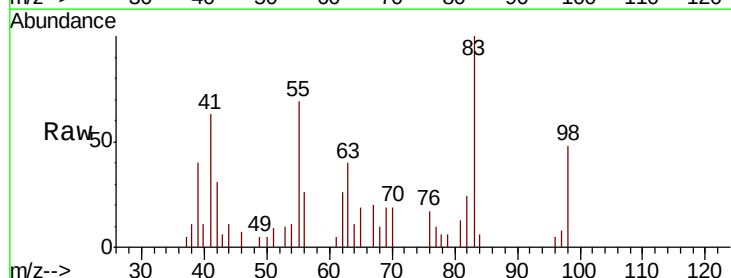
RT: 6.42 min Scan# 1814

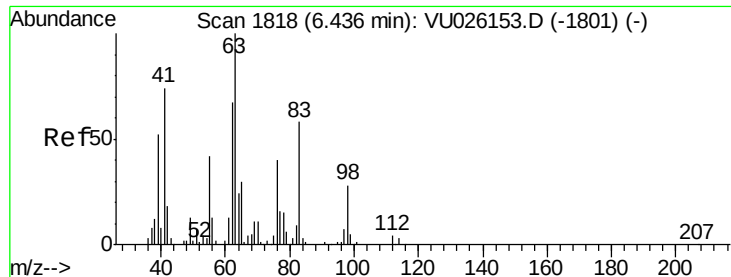
Delta R.T. 0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		5158		
55	76.9	61.0	91.6		
98	46.8	37.6	56.4		





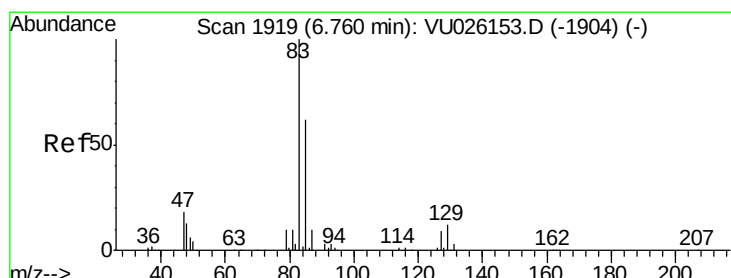
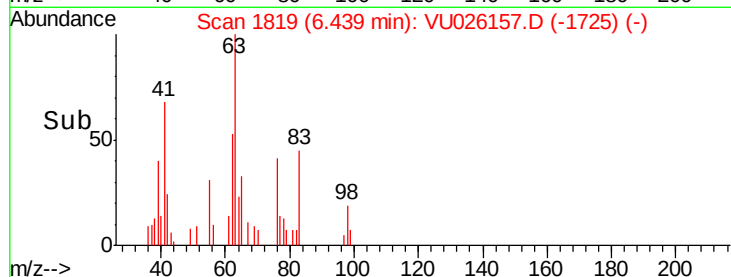
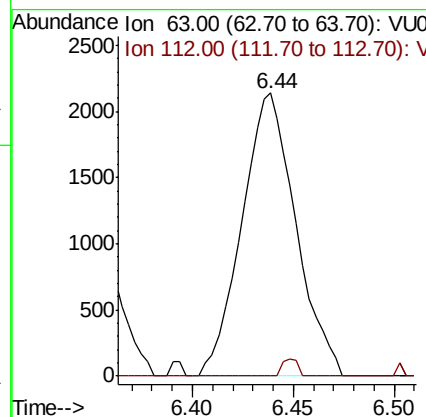
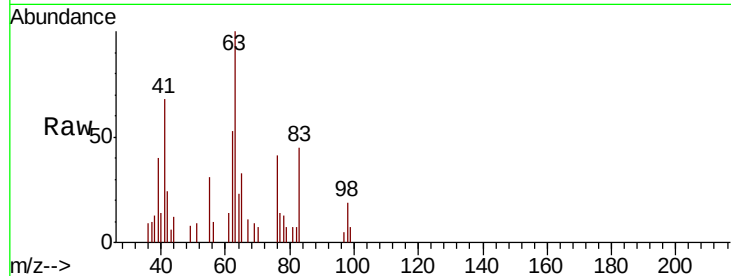
#37
 1,2-Dichloropropane
 Concen: 1.97 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion: 63 Resp: 3988
 Ion Ratio Lower Upper
 63 100
 112 1.8 3.5 5.3#

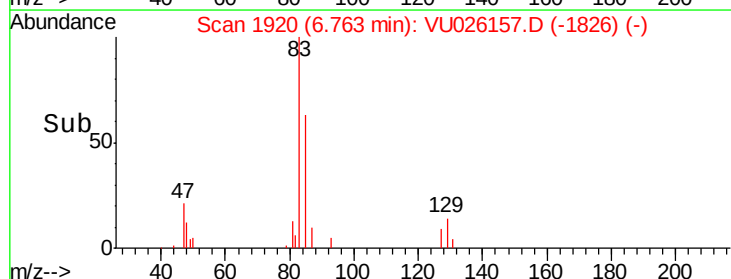
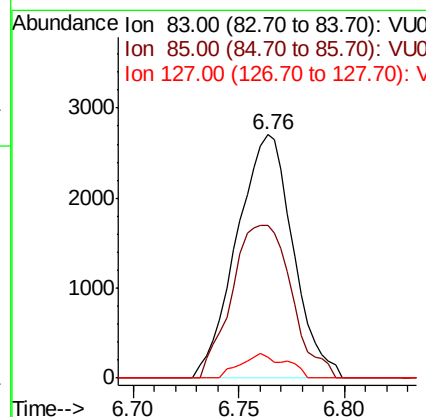
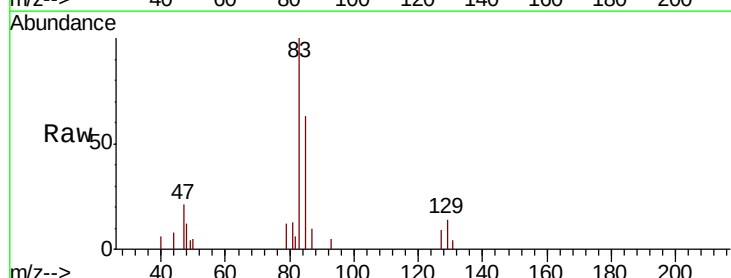
Manual Integrations
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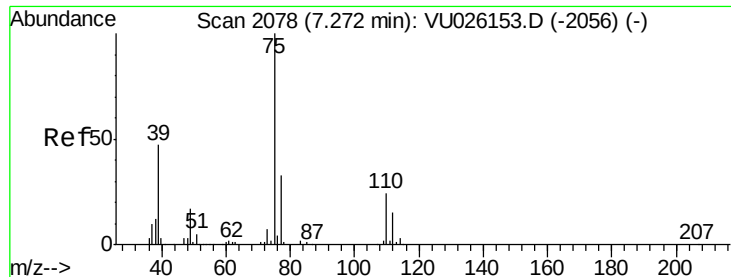
MMDadoda
 8/16/2018 4:20:18 PM



#38
 Bromodichloromethane
 Concen: 1.87 ug/L
 RT: 6.76 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Tgt Ion: 83 Resp: 5011
 Ion Ratio Lower Upper
 83 100
 85 62.8 46.0 85.4
 127 8.6 7.5 11.3





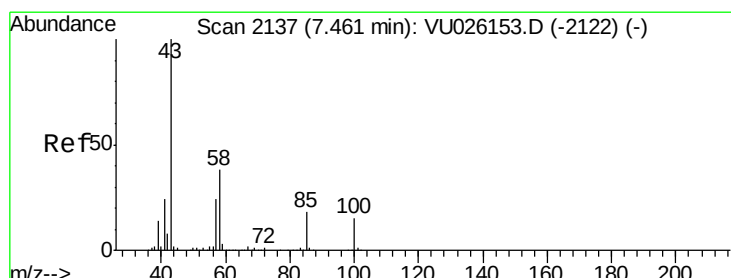
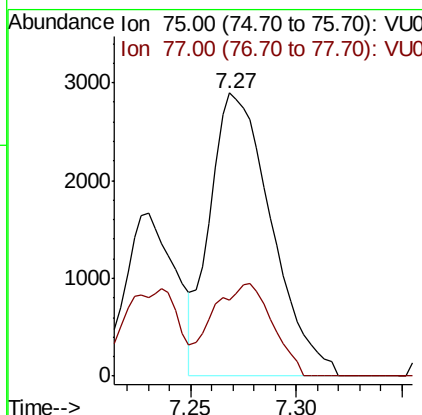
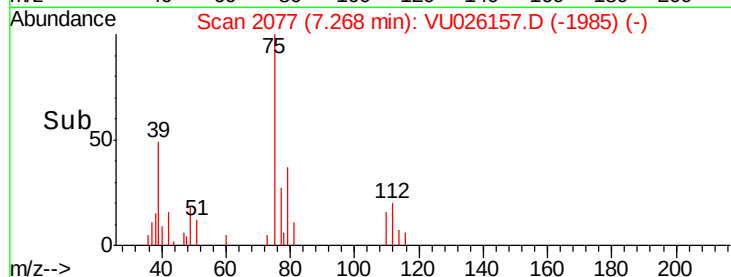
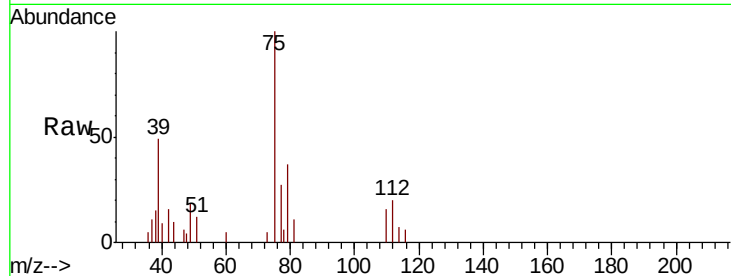
#39
 cis-1,3-Dichloropropene
 Concen: 1.95 ug/L
 RT: 7.27 min Scan# 2077
 Delta R.T. -0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
75	100		
77	27.0	22.2	41.2

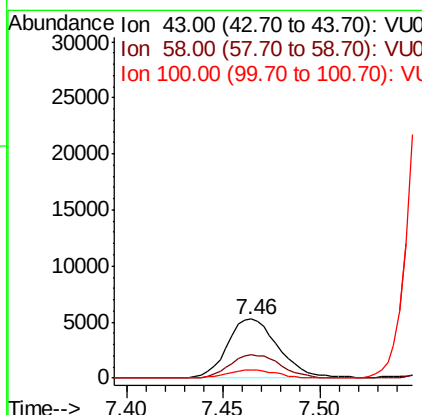
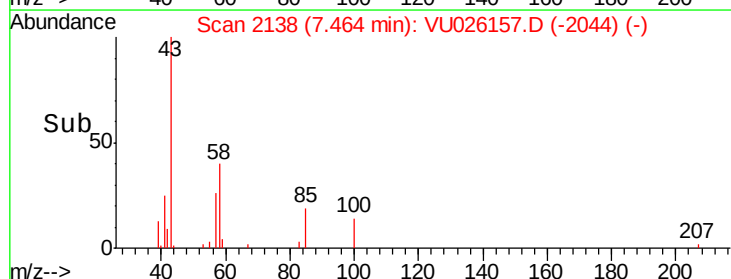
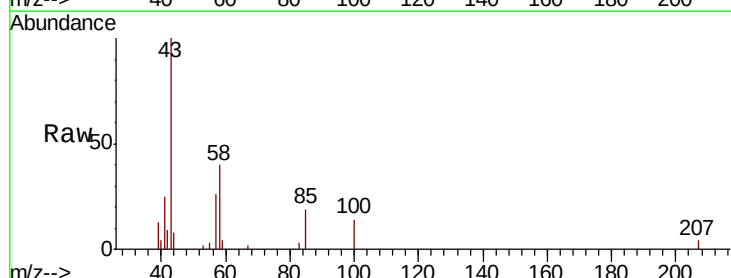
Manual Integrations
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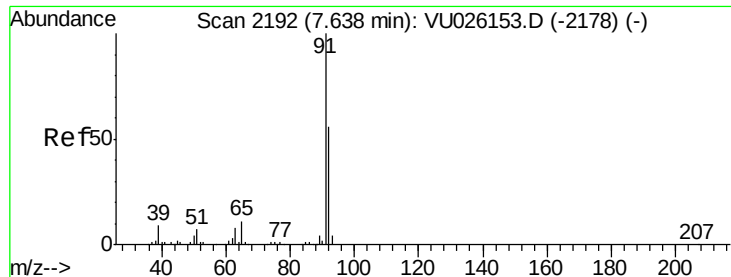
MMDadoda
 8/16/2018 4:20:18 PM



#40
 4-Methyl-2-pentanone
 Concen: 3.84 ug/L
 RT: 7.46 min Scan# 2138
 Delta R.T. 0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.8	31.8	47.8
100	13.3	12.2	18.2





#42

Toluene

Concen: 1.95 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 14995

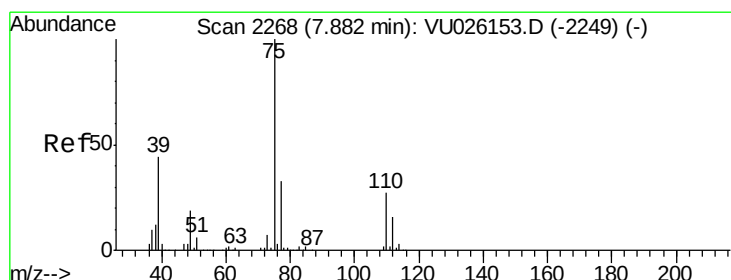
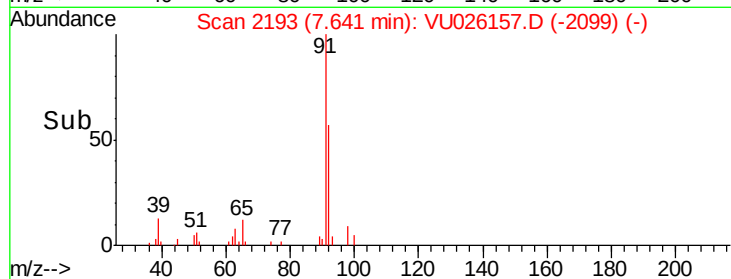
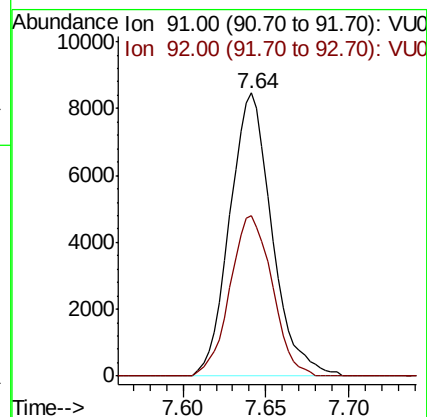
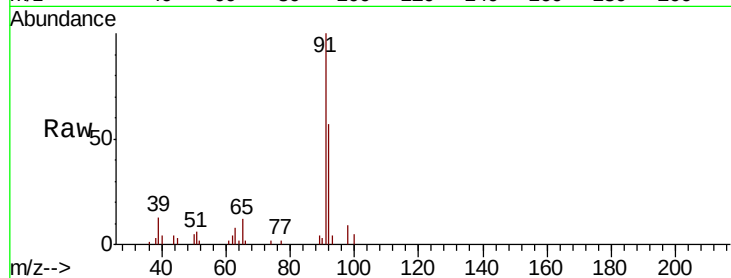
Ion Ratio Lower Upper

91 100

92 56.5 40.0 74.4

Manual Integrations
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#44

trans-1,3-Dichloropropene

Concen: 1.90 ug/L

RT: 7.88 min Scan# 2267

Delta R.T. -0.00 min

Lab File: VU026157.D

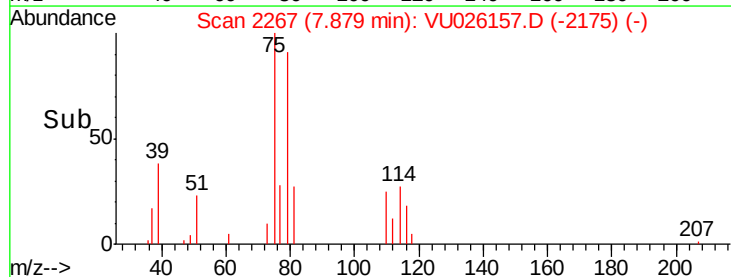
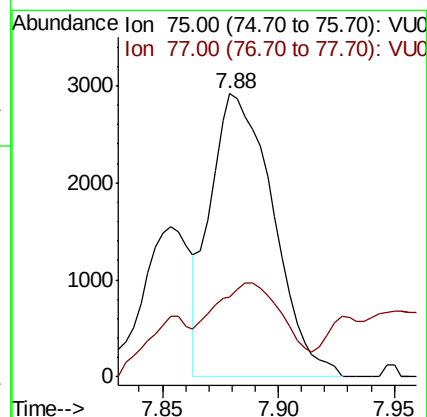
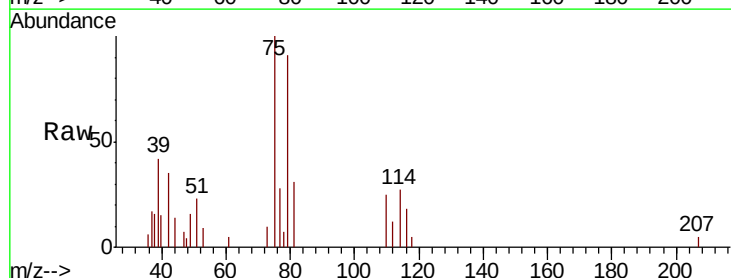
Acq: 15 Aug 2018 19:34

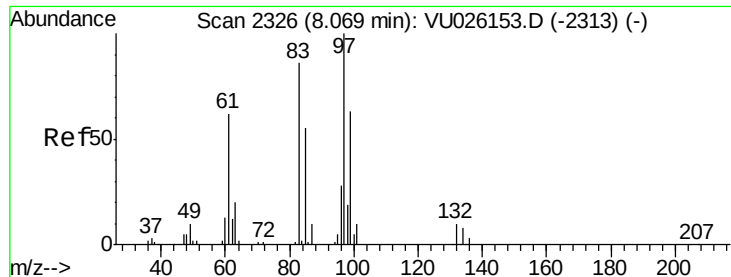
Tgt Ion: 75 Resp: 5488

Ion Ratio Lower Upper

75 100

77 28.3 22.0 41.0





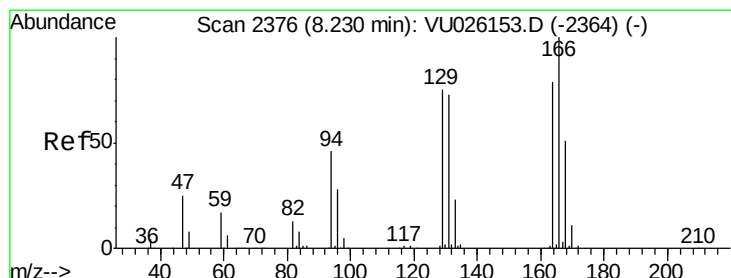
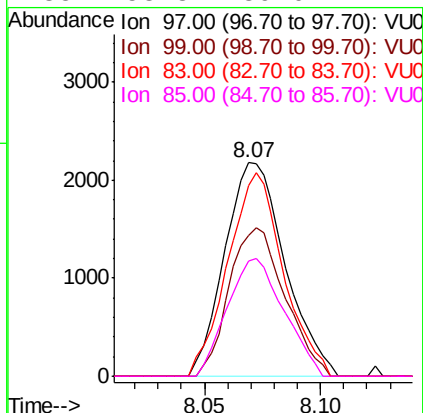
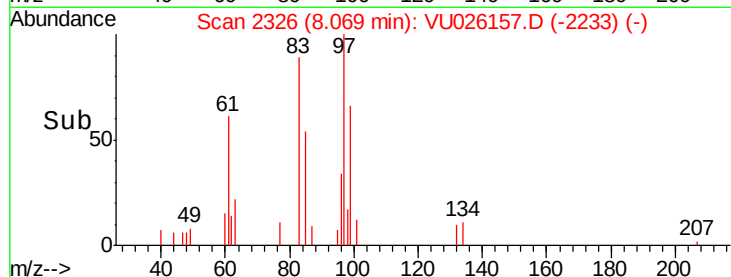
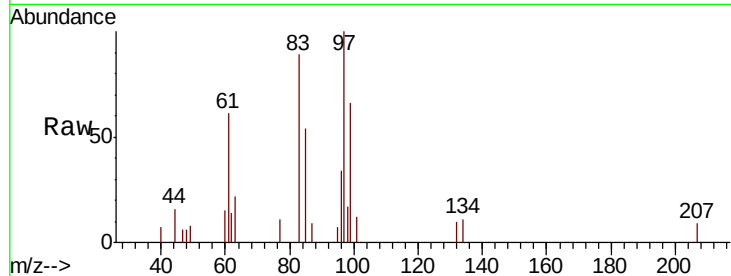
#45
 1,1,2-Trichloroethane
 Concen: 2.05 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion:	97	Resp:	3929
Ion	Ratio	Lower	Upper
97	100		
99	65.8	43.3	80.5
83	89.2	58.4	108.6
85	53.8	39.0	72.4

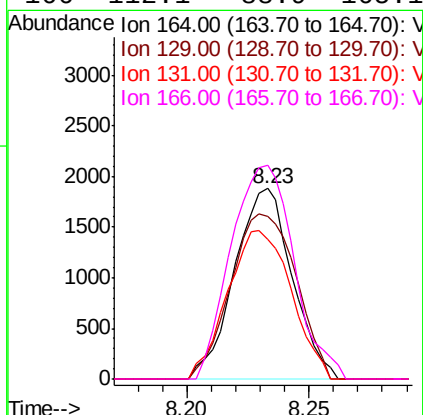
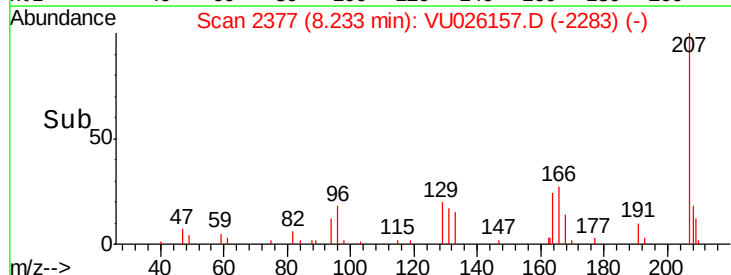
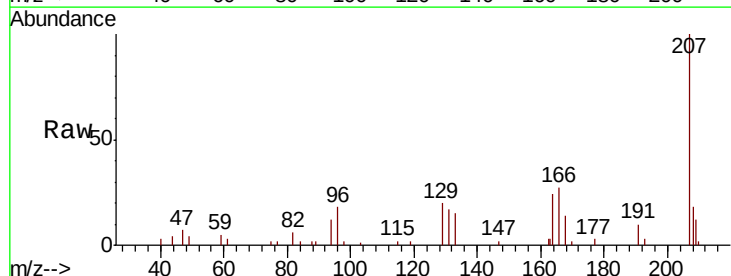
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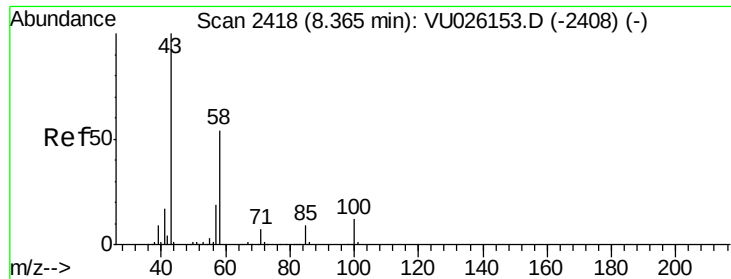
MMDadoda
 8/16/2018 4:20:18 PM



#46
 Tetrachloroethene
 Concen: 1.90 ug/L
 RT: 8.23 min Scan# 2377
 Delta R.T. 0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Tgt Ion:	164	Resp:	3080
Ion	Ratio	Lower	Upper
164	100		
129	85.3	65.7	121.9
131	73.3	62.0	115.2
166	112.1	88.9	165.1





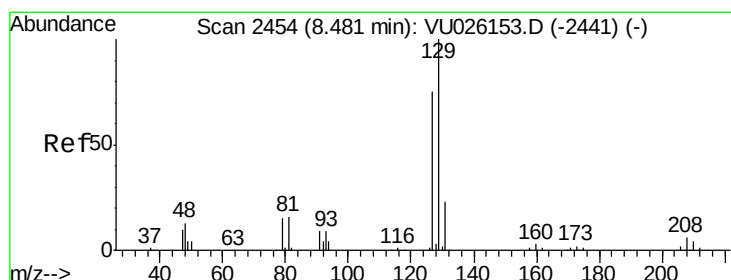
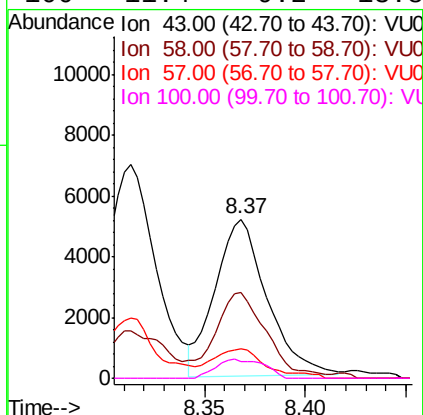
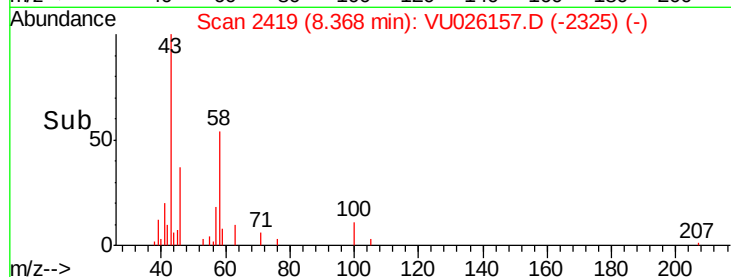
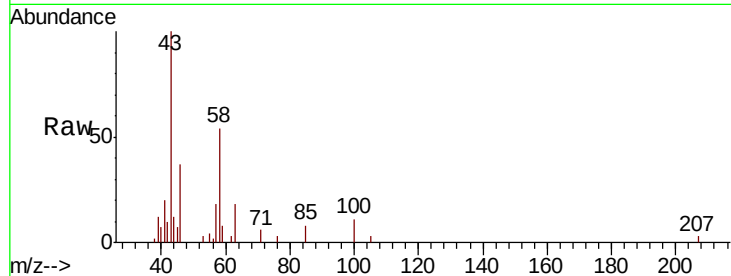
#48
2-Hexanone
Concen: 4.70 ug/L
RT: 8.37 min Scan# 2419
Delta R.T. 0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
43	100		
58	52.7	42.9	64.3
57	14.1	15.1	22.7
100	11.4	9.2	13.8

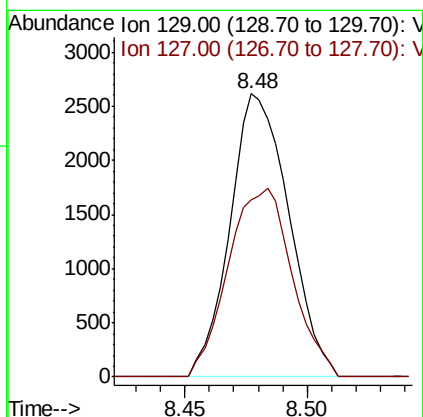
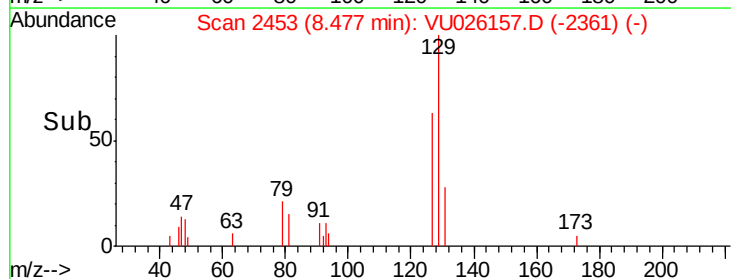
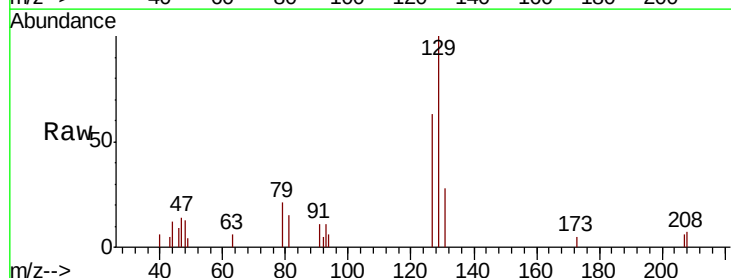
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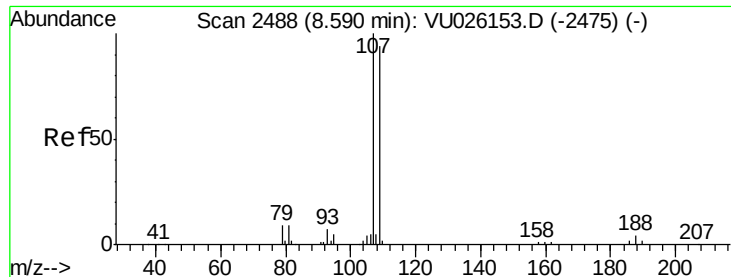
MMDadoda
8/16/2018 4:20:18 PM



#49
Dibromochloromethane
Concen: 1.90 ug/L
RT: 8.48 min Scan# 2453
Delta R.T. -0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Tgt Ion	Ratio	Lower	Upper
129	100		
127	62.6	54.6	101.4





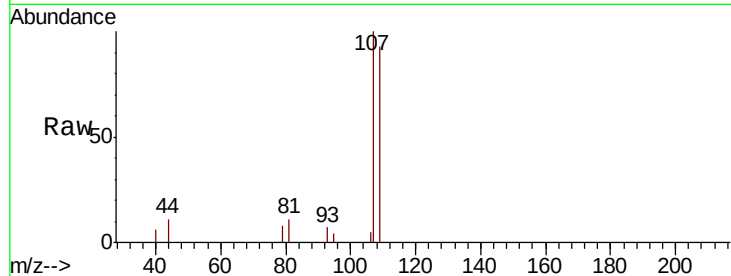
#50
1,2-Dibromoethane
Concen: 2.07 ug/L
RT: 8.59 min Scan# 2489
Delta R.T. 0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Resp	Lower	Upper
107	100	4116		
109	92.8	66.1	122.7	
188	0.0	3.2	4.8#	

Manual Integrations
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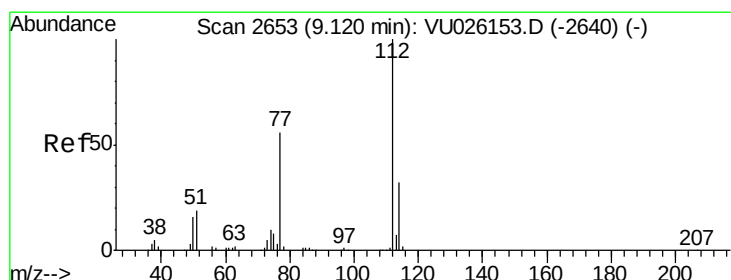
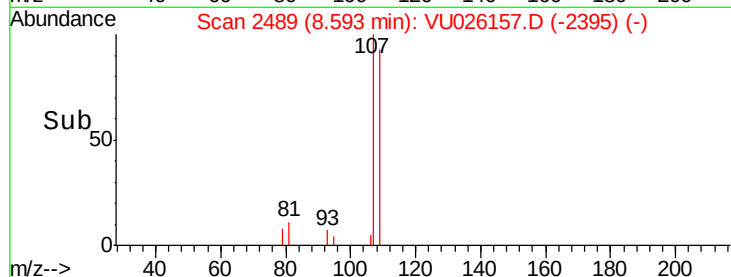
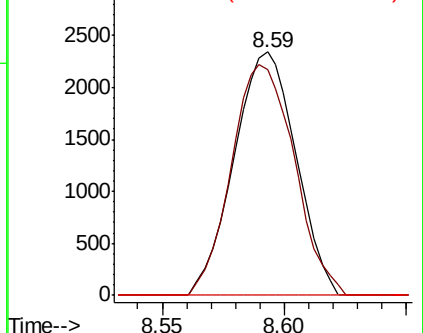


Abundance

Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 2.04 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. -0.00 min
Lab File: VU026157.D
Acq: 15 Aug 2018 19:34

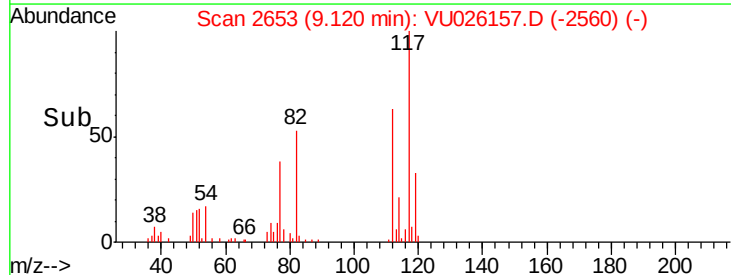
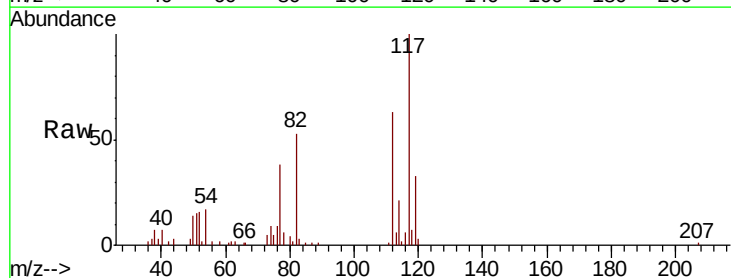
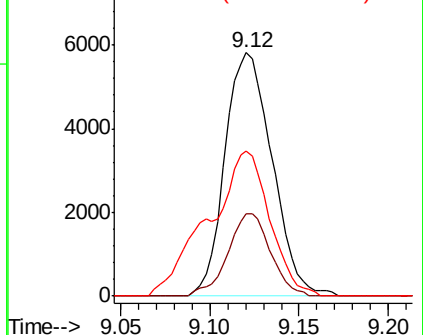
Tgt Ion	Ratio	Resp	Lower	Upper
112	100	10687		
114	34.0	22.5	41.9	
77	59.8	45.0	67.4	

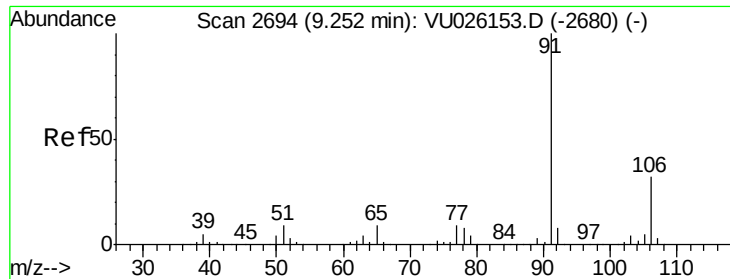
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 1.69 ug/L

RT: 9.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 91 Resp: 14143

Ion Ratio Lower Upper

91 100

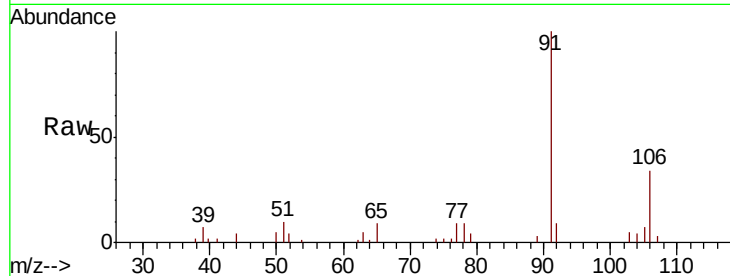
106 34.4 22.3 41.5

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VU026153.D (-2680) (-)

Ion 106.00 (105.70 to 106.70): VU026157.D (-2601) (-)

9.26

8000

6000

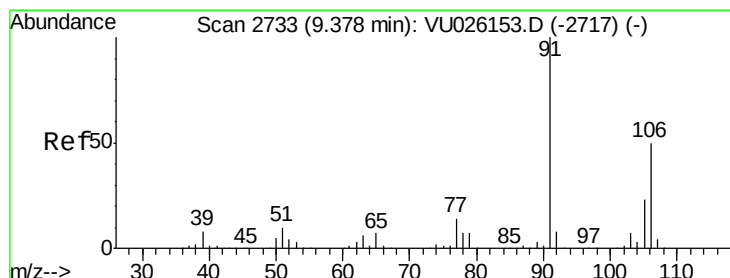
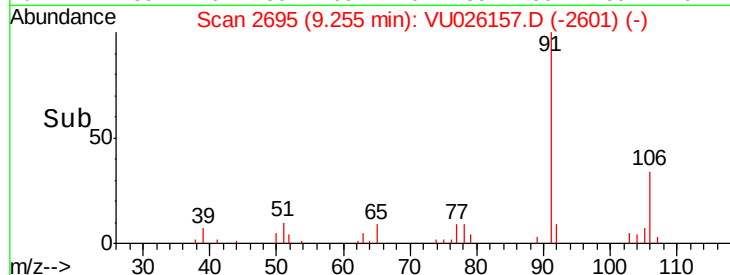
4000

2000

0

9.20 9.25 9.30

Time-->



#53

m,p-Xylene

Concen: 1.51 ug/L

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU026157.D

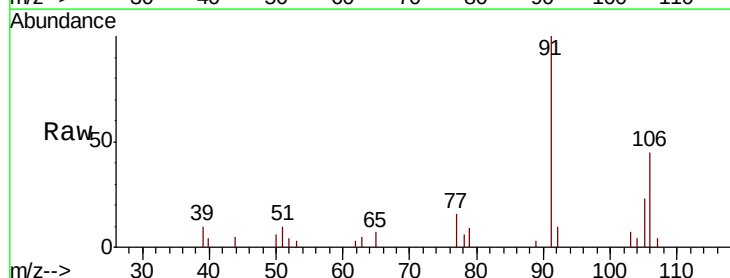
Acq: 15 Aug 2018 19:34

Tgt Ion: 106 Resp: 4873

Ion Ratio Lower Upper

106 100

91 222.0 139.2 258.4



Abundance Ion 106.00 (105.70 to 106.70): VU026157.D (-2640) (-)

Ion 91.00 (90.70 to 91.70): VU026153.D (-2717) (-)

9.38

6000

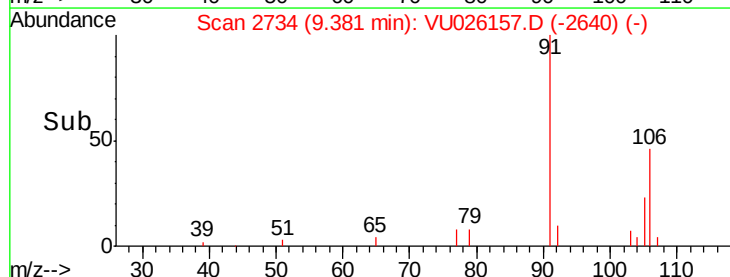
4000

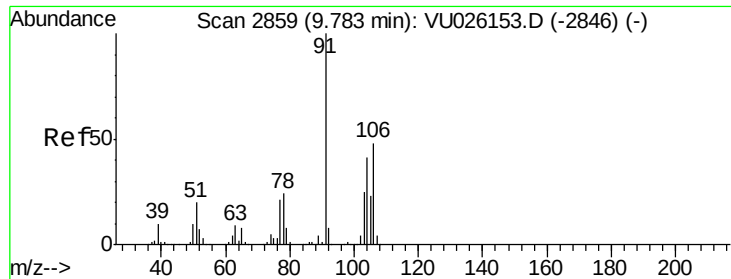
2000

0

9.35 9.40

Time-->





#54

o-xylene

Concen: 1.57 ug/L

RT: 9.79 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion:106 Resp: 5062

Ion Ratio Lower Upper

106 100

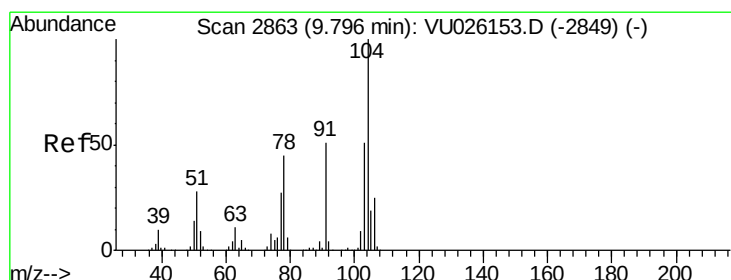
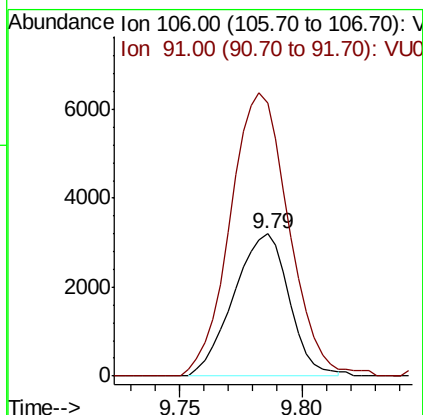
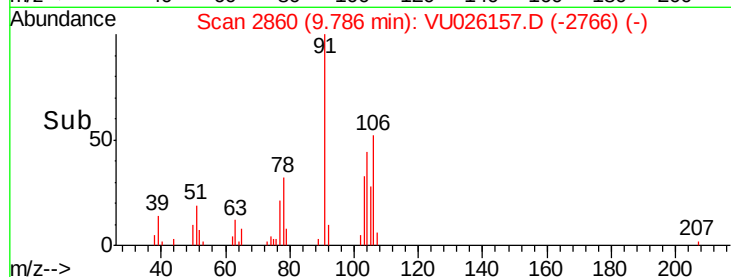
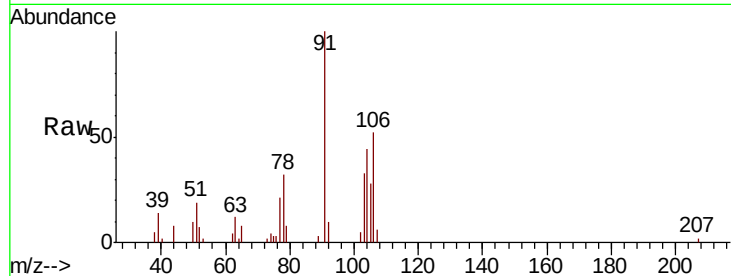
91 192.2 148.0 274.8

Manual Integrations

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MMDadoda

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#55

Styrene

Concen: 1.54 ug/L

RT: 9.80 min Scan# 2864

Delta R.T. 0.00 min

Lab File: VU026157.D

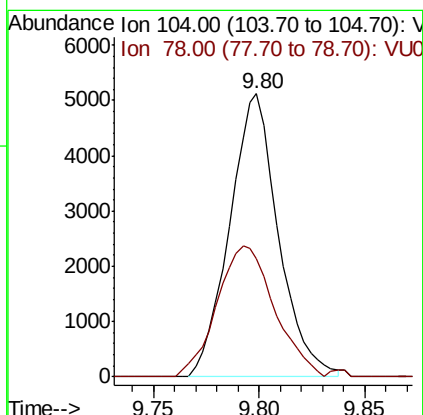
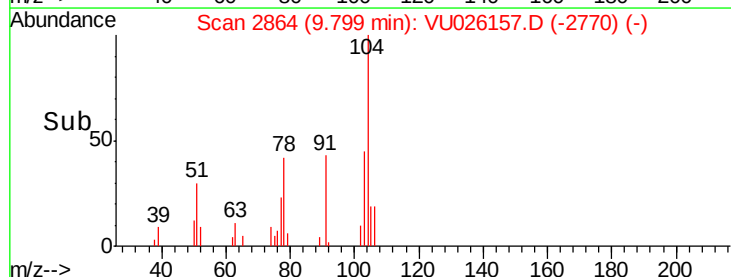
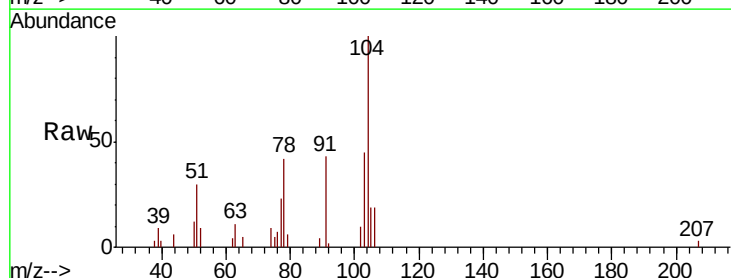
Acq: 15 Aug 2018 19:34

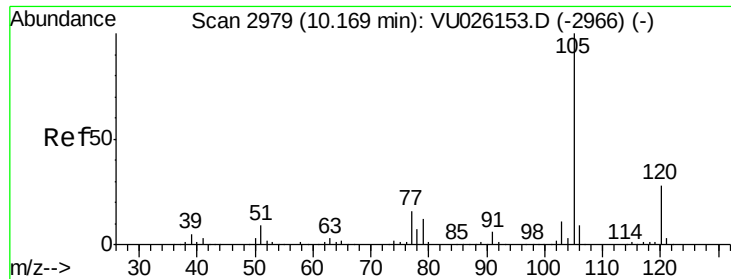
Tgt Ion:104 Resp: 8233

Ion Ratio Lower Upper

104 100

78 41.6 30.9 57.5





#56

Isopropylbenzene

Concen: 1.55 ug/L

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_U

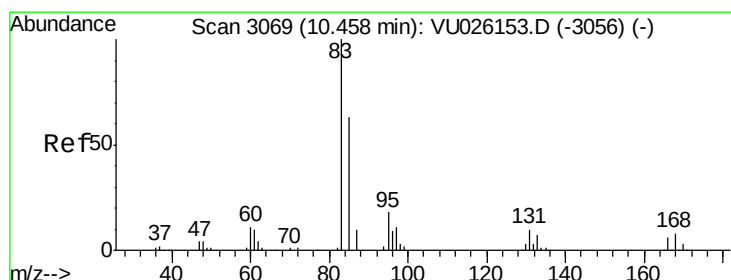
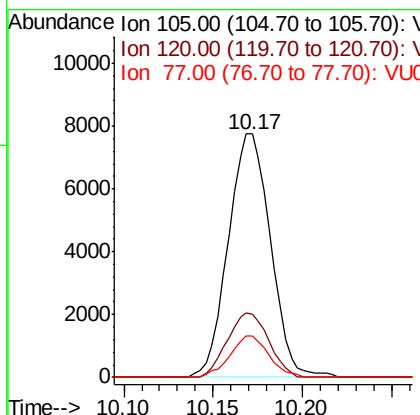
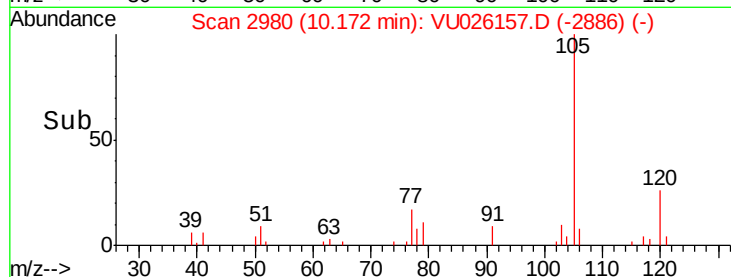
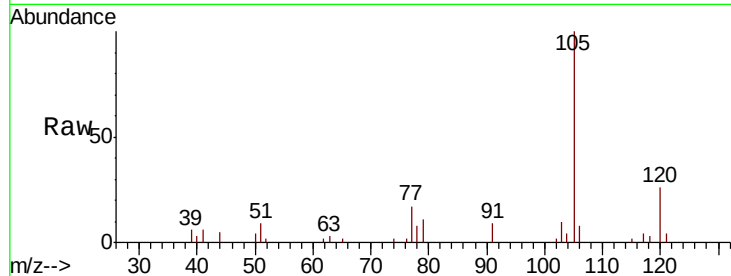
ClientSampled :

MDL02

Tot Ion:	105	Resp:	12785
Ion Ratio	Lower	Upper	
105	100		
120	25.8	21.5	32.3
77	15.6	12.3	18.5

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:18 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 2.22 ug/L

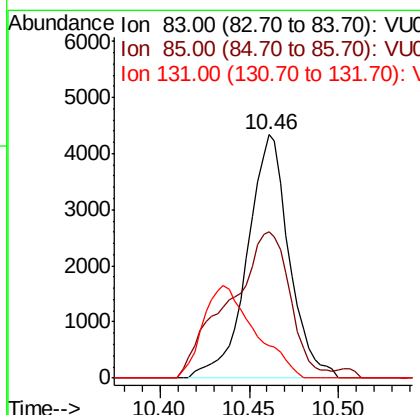
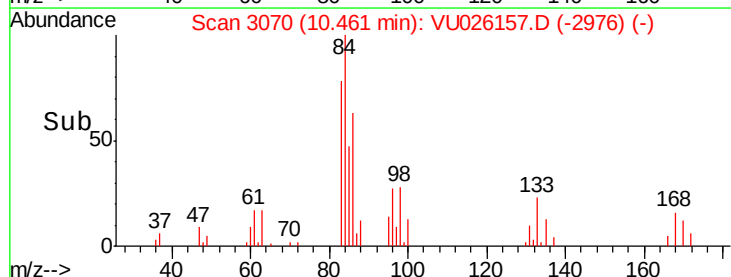
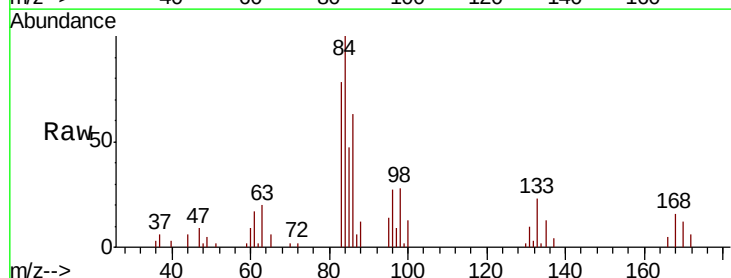
RT: 10.46 min Scan# 3070

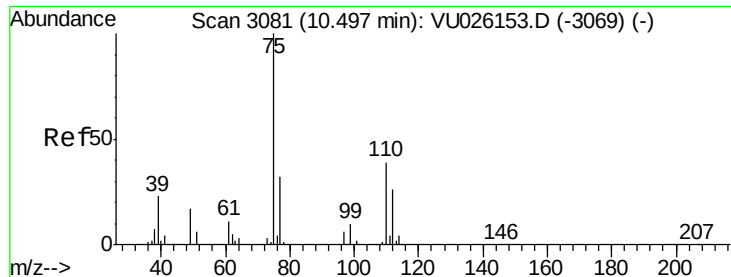
Delta R.T. 0.00 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Tgt Ion:	83	Resp:	7104
Ion Ratio	Lower	Upper	
83	100		
85	60.1	45.0	83.6
131	13.3	8.4	12.6#





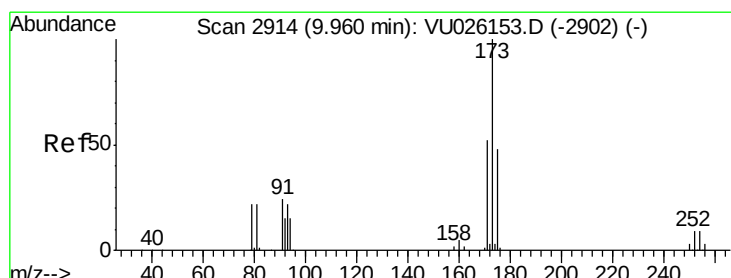
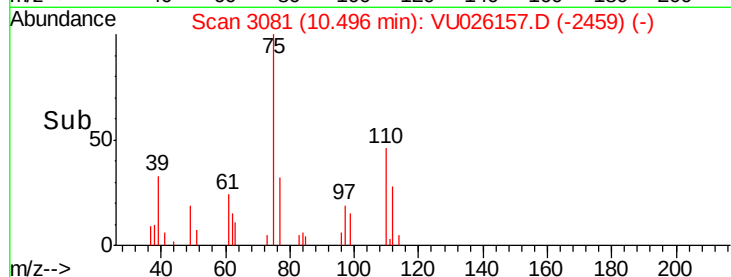
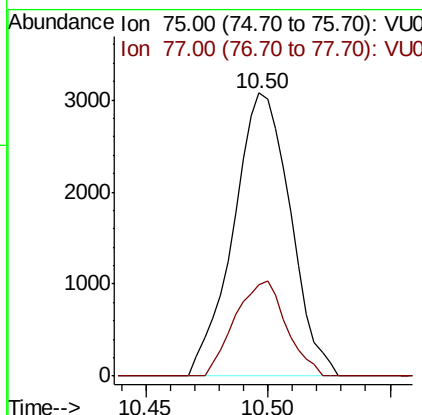
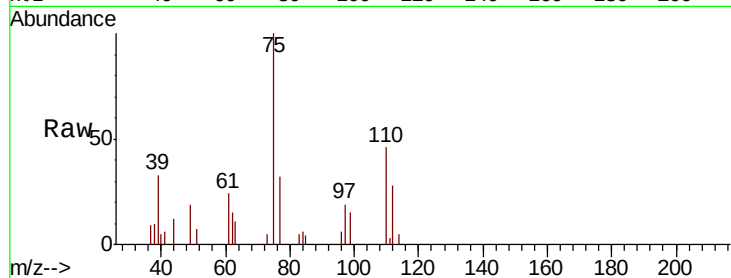
#59
 1,2,3-Trichloropropane
 Concen: 2.00 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion: 75 Resp: 4984
 Ion Ratio Lower Upper
 75 100
 77 30.3 26.1 39.1

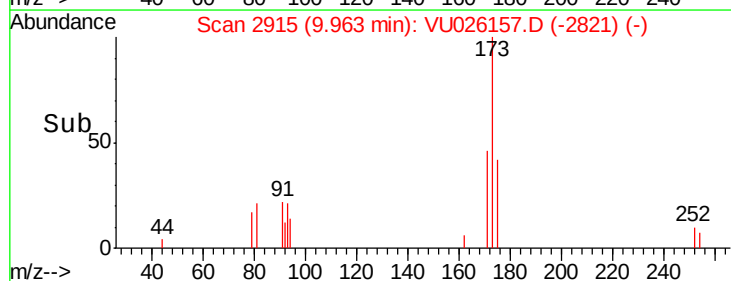
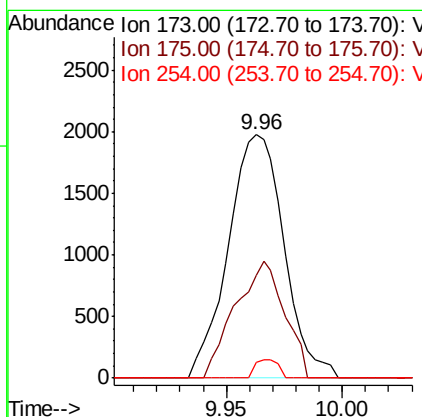
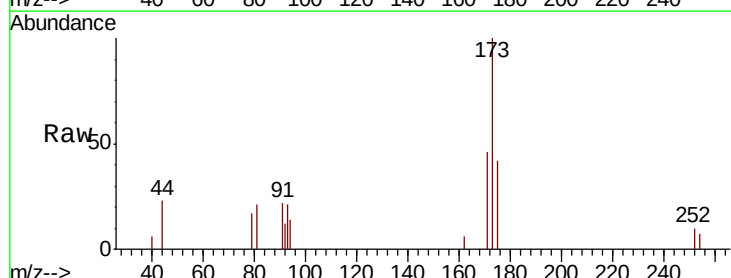
Manual Integrations
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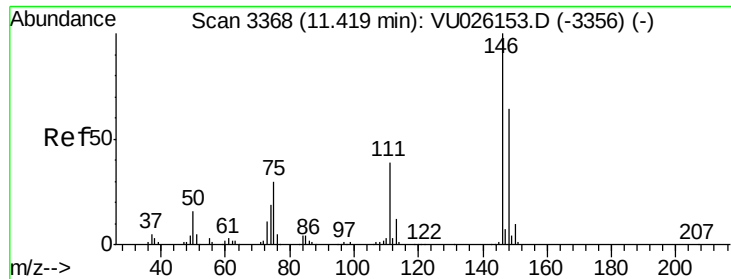
MMDadoda
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#61
 Bromoform
 Concen: 2.26 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Tgt Ion:173 Resp: 3301
 Ion Ratio Lower Upper
 173 100
 175 42.7 38.8 58.2
 254 3.2 7.3 10.9#





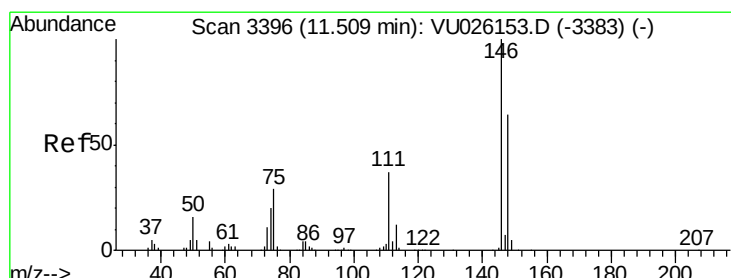
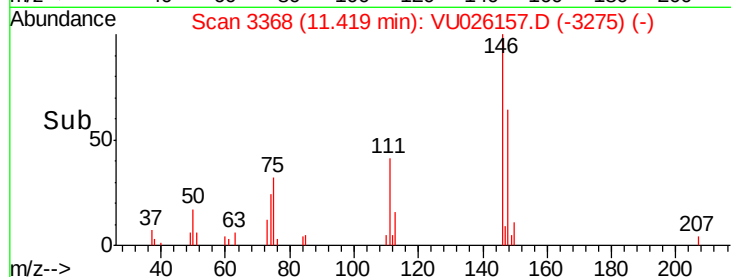
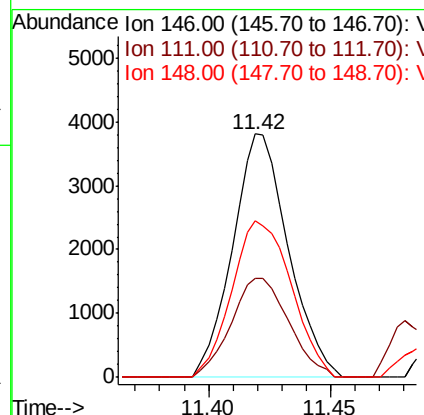
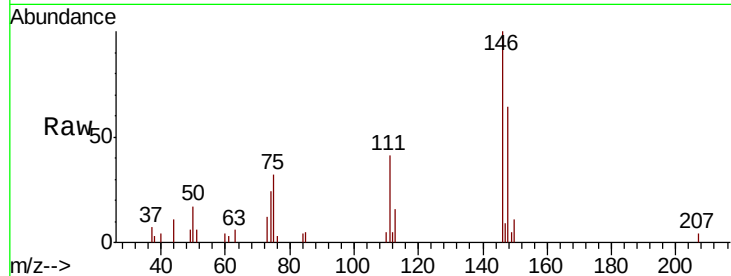
#62
 1,3-Dichlorobenzene
 Concen: 1.79 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	26.7	49.7
148	64.3	44.1	81.9

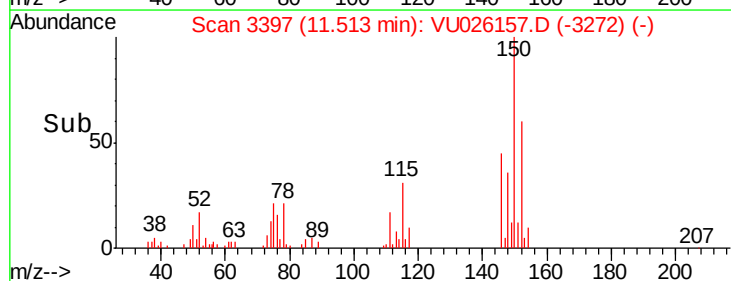
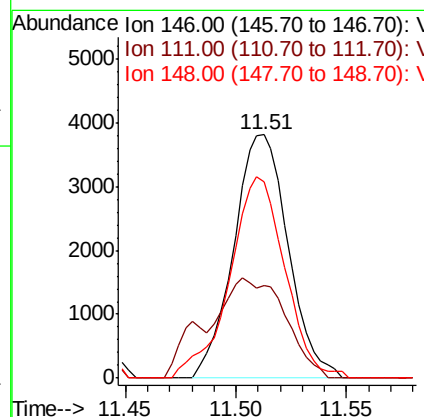
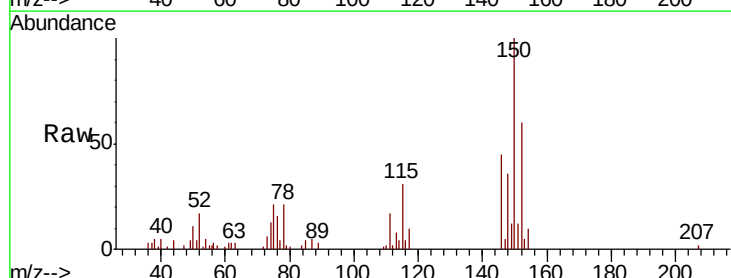
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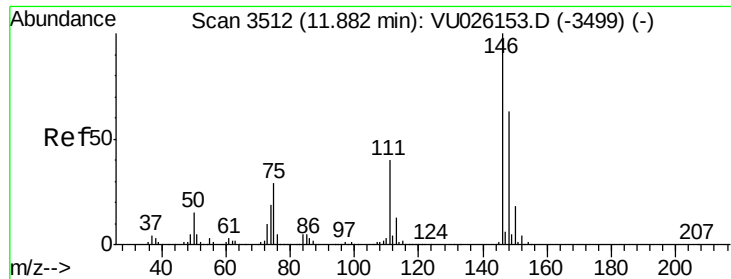
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#63
 1,4-Dichlorobenzene
 Concen: 1.89 ug/L
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	27.5	51.1
148	80.4	44.8	83.2





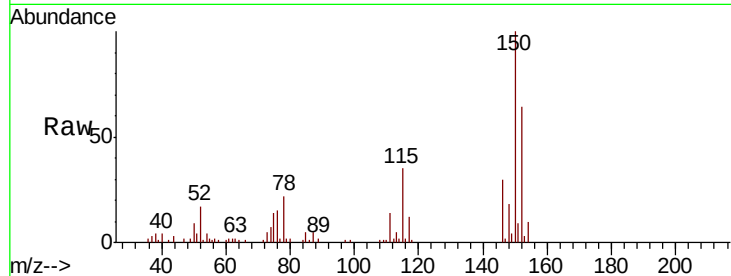
#65
 1,2-Dichlorobenzene
 Concen: 2.28 ug/L
 RT: 11.89 min Scan# 3513
 Delta R.T. 0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.0	32.7	49.1
148	59.4	51.4	77.2

Manual Integrations
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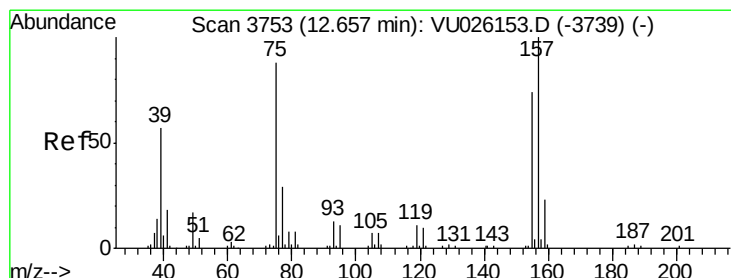
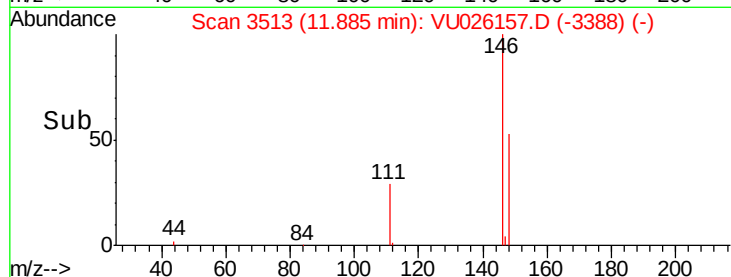
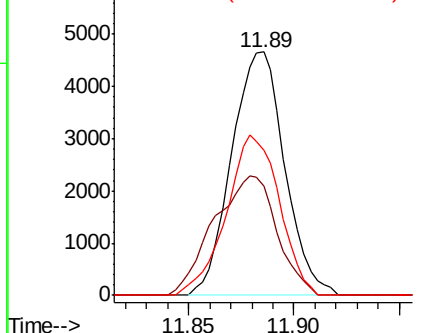


Abundance

Ion 146.00 (145.70 to 146.70): V

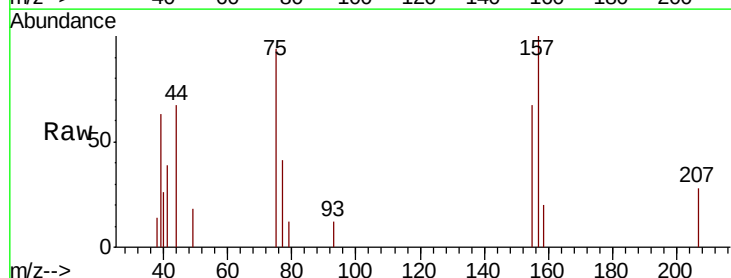
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.05 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Tgt Ion	Ratio	Lower	Upper
75	100		
155	70.5	68.2	102.2
157	105.8	90.5	135.7

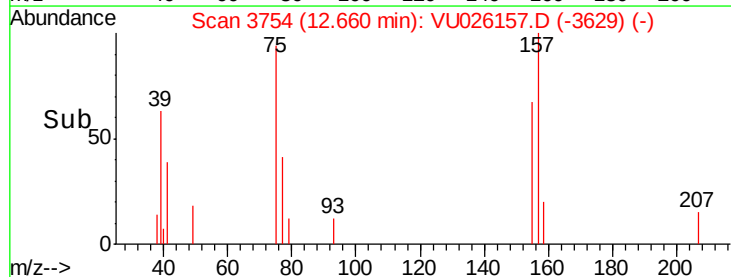
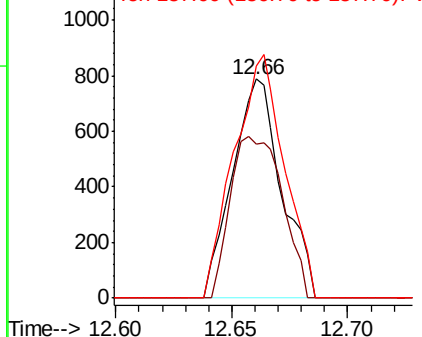


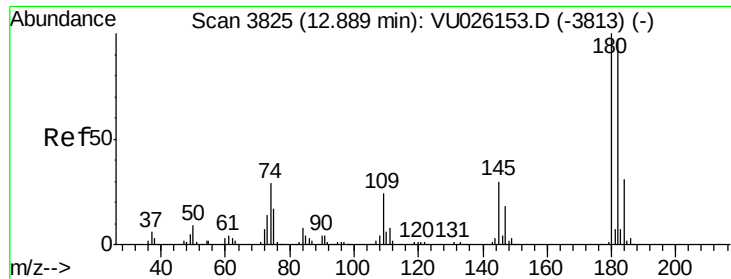
Abundance

Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





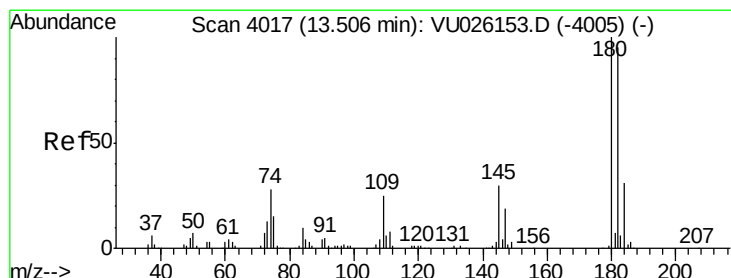
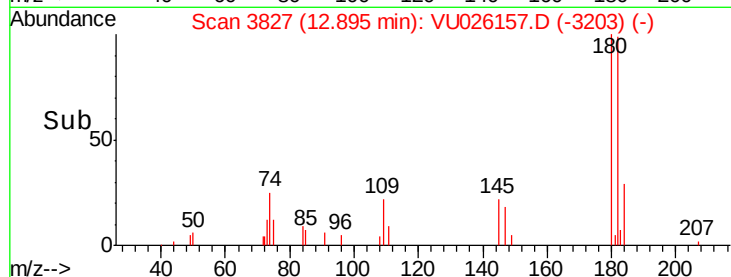
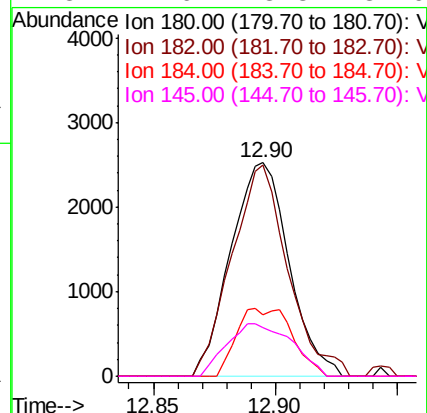
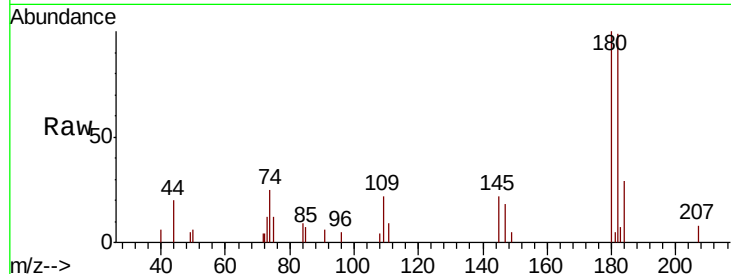
#67
 1,3,5-Trichlorobenzene
 Concen: 1.69 ug/L
 RT: 12.90 min Scan# 3827
 Delta R.T. 0.01 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.6	113.4
184	15.9	24.3	36.5
145	27.6	23.3	34.9

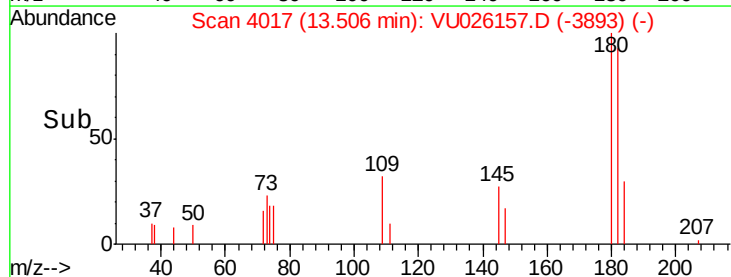
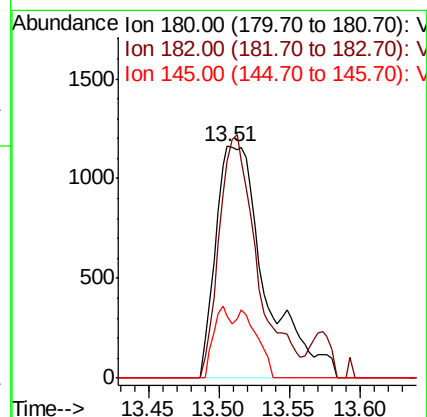
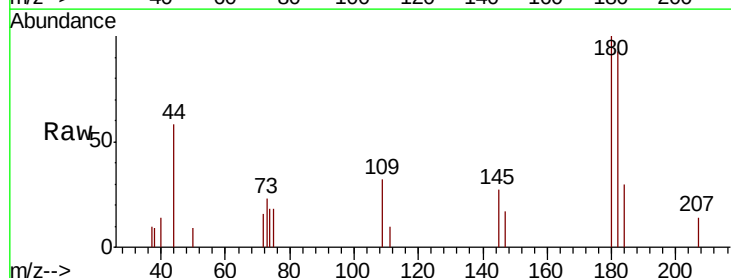
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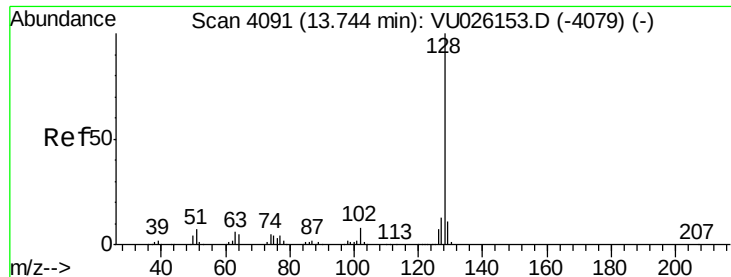
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#68
 1,2,4-trichlorobenzene
 Concen: 1.51 ug/L m
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU026157.D
 Acq: 15 Aug 2018 19:34

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.8	115.2
145	11.2	23.8	35.6





#69

Naphthalene

Concen: 1.28 ug/L m

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Instrument :

MSVOA_U

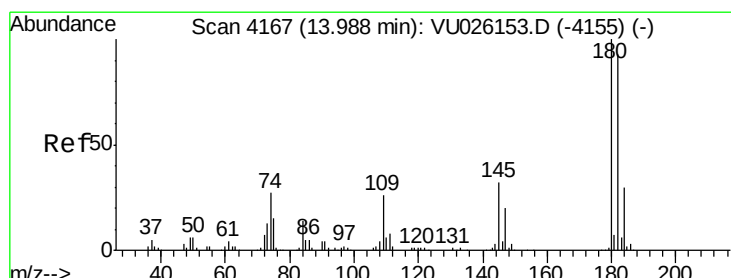
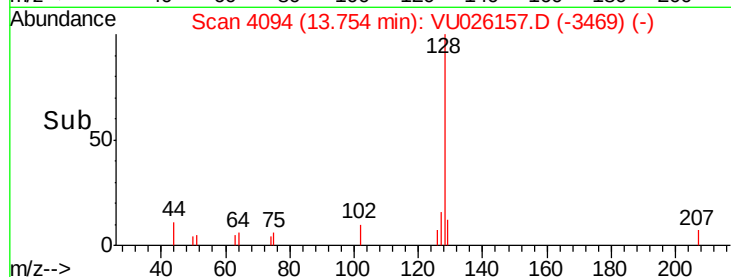
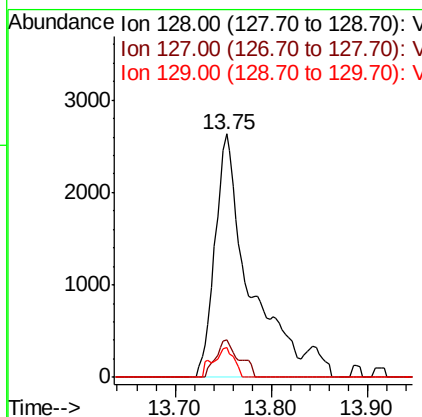
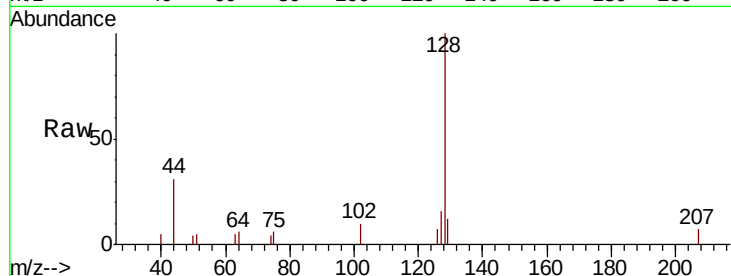
ClientSampleId :

MDL02

Tot Ion:	128	Resp:	6825
Ion Ratio	Lower	Upper	
128	100		
127	8.5	10.3	15.5#
129	5.8	8.6	13.0#

Manual Integrations
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#70

1,2,3-Trichlorobenzene

Concen: 1.47 ug/L m

RT: 13.99 min Scan# 4169

Delta R.T. 0.01 min

Lab File: VU026157.D

Acq: 15 Aug 2018 19:34

Tgt Ion:	180	Resp:	2960
Ion Ratio	Lower	Upper	
180	100		
182	85.0	77.1	115.7
145	23.1	25.1	37.7#

