

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020720\
 Data File : VU036696.D
 Acq On : 07 Feb 2020 12:27
 Operator : JC/MD
 Sample : MDL03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDadoda
 2/10/2020 11:54:10 AM

Quant Time: Feb 07 23:16:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 07 22:36:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	261788	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	245713	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	104680	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	77312	44.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.56%
7) Chloroethane-d5	1.93	69	74395	45.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.92%
11) 1,1-Dichloroethene-d2	2.59	63	112777	34.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.42%
21) 2-Butanone-d5	4.68	46	113363	76.11	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	76.11%
24) Chloroform-d	5.11	84	136041	43.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.10%
26) 1,2-Dichloroethane-d4	5.75	65	102558	47.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.90%
32) Benzene-d6	5.77	84	312278	48.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.68%
36) 1,2-Dichloropropane-d6	6.73	67	104926	48.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.86%
41) Toluene-d8	7.93	98	282359	47.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.46%
43) trans-1,3-Dichloropropene-	8.21	79	47258	46.02	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.04%
47) 2-Hexanone-d5	8.67	63	124851	102.01	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.01%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	152438	48.24	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.48%
66) 1,2-Dichlorobenzene-d4	12.21	152	94195	49.53	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.06%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	4664	2.579 ug/L	100
3) Chloromethane	1.54	50	5768	2.691 ug/L	99
5) Vinyl chloride	1.62	62	6450	2.795 ug/L #	63
6) Bromomethane	1.87	94	3645	2.519 ug/L	94
8) Chloroethane	1.95	64	4711	3.216 ug/L	86
9) Trichlorofluoromethane	2.16	101	7078	2.581 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	5064	3.083 ug/L #	86
12) 1,1-Dichloroethene	2.61	96	5172	3.234 ug/L #	1
13) Acetone	2.66	43	11816	7.468 ug/L	93
14) Carbon disulfide	2.82	76	11926	2.496 ug/L	99
15) Methyl Acetate	2.99	43	5861	2.562 ug/L	98
16) Methylene chloride	3.08	84	5523	2.798 ug/L	94
17) trans-1,2-Dichloroethene	3.39	96	4486	2.637 ug/L	95
18) Methyl tert-butyl Ether	3.41	73	14915	2.526 ug/L	98
19) 1,1-Dichloroethane	3.92	63	8706	2.568 ug/L	96
20) cis-1,2-Dichloroethene	4.72	96	4899	2.527 ug/L	97
22) 2-Butanone	4.76	43	18075	9.625 ug/L	82

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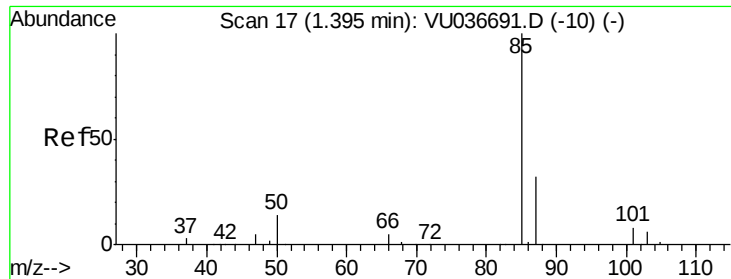
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	2399	2.641	ug/L	91
25) Chloroform	5.14	83	21436	6.501	ug/L	98
27) 1,2-Dichloroethane	5.84	62	7579	2.733	ug/L	97
29) Cyclohexane	5.43	56	8265	2.619	ug/L	98
30) 1,1,1-Trichloroethane	5.36	97	6406	2.454	ug/L #	74
31) Carbon tetrachloride	5.57	117	5297	2.506	ug/L	98
33) Benzene	5.82	78	19855	2.672	ug/L	100
34) Trichloroethene	6.58	95	4829	2.628	ug/L	97
35) Methylcyclohexane	6.80	83	7983	2.467	ug/L	97
37) 1,2-Dichloropropane	6.83	63	5398	2.694	ug/L #	88
38) Bromodichloromethane	7.14	83	6231	2.559	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	8185	2.556	ug/L	100
40) 4-Methyl-2-pentanone	7.83	43	16493	5.209	ug/L	99
42) Toluene	8.00	91	20923	2.605	ug/L	96
44) trans-1,3-Dichloropropene	8.24	75	7219m	2.581	ug/L	
45) 1,1,2-Trichloroethane	8.43	97	4508	2.466	ug/L	97
46) Tetrachloroethene	8.58	164	3840	2.978	ug/L	92
48) 2-Hexanone	8.72	43	14461	5.599	ug/L	97
49) Dibromochloromethane	8.84	129	4113	2.300	ug/L	86
50) 1,2-Dibromoethane	8.95	107	4495	2.340	ug/L #	98
51) Chlorobenzene	9.47	112	12765	2.640	ug/L	99
52) Ethylbenzene	9.60	91	21684	2.457	ug/L	96
53) m,p-Xylene	9.72	106	8100	2.488	ug/L	93
54) o-xylene	10.13	106	7714	2.392	ug/L	95
55) Styrene	10.14	104	12091	2.250	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.81	83	8879	2.695	ug/L	99
59) Bromoform	10.32	173	2832	2.449	ug/L #	94
60) 1,2,3-Trichloropropane	10.85	75	6895	2.800	ug/L	99
61) Isopropylbenzene	10.51	105	20328	2.608	ug/L	99
62) 1,3,5-Trimethylbenzene	11.11	105	16896	2.528	ug/L	95
63) 1,2,4-Trimethylbenzene	11.49	105	16440	2.464	ug/L	99
64) 1,3-Dichlorobenzene	11.77	146	8474	2.585	ug/L	98
65) 1,4-Dichlorobenzene	11.86	146	8694	2.634	ug/L	97
67) 1,2-Dichlorobenzene	12.24	146	8965	2.701	ug/L	98
68) 1,2-Dibromo-3-chloropropan	13.02	75	1669	2.372	ug/L	91
69) 1,3,5-Trichlorobenzene	13.24	180	5054	2.223	ug/L	99
70) 1,2,4-trichlorobenzene	13.85	180	3480	1.836	ug/L	95
71) Naphthalene	14.10	128	10769	1.612	ug/L	99
72) 1,2,3-Trichlorobenzene	14.34	180	3452	1.828	ug/L	94

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



#2

Dichlorodifluoromethane

Concen: 2.579 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 85 Resp: 4664

Ion Ratio Lower Upper

85 100

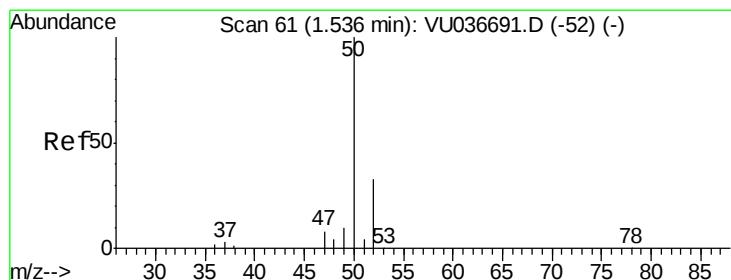
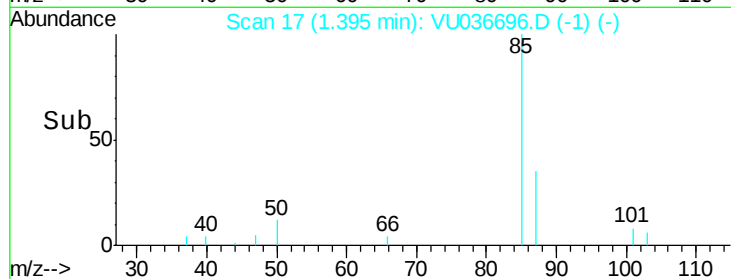
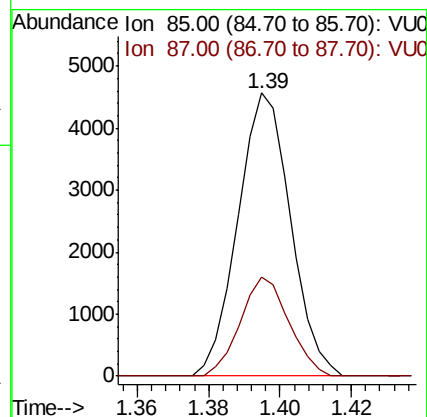
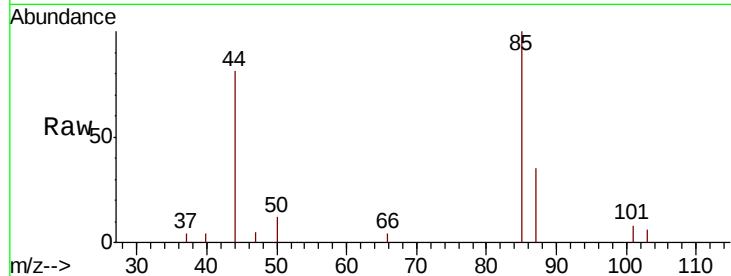
87 32.2 25.9 38.9

Manual Integrations

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#3

Chloromethane

Concen: 2.691 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036696.D

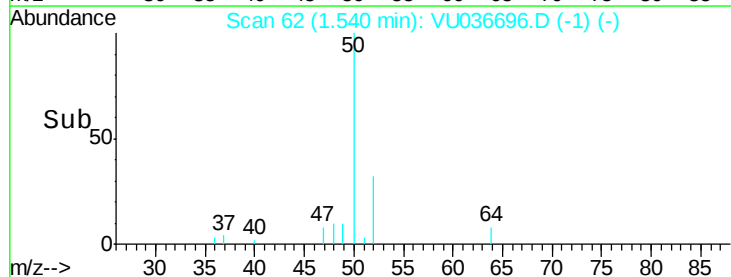
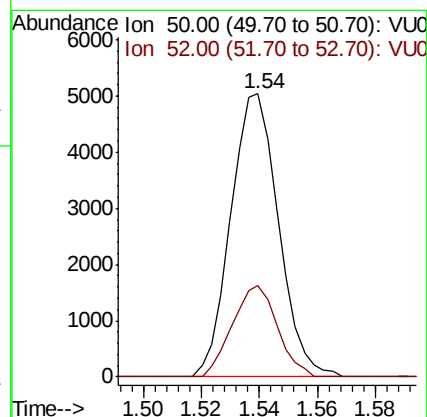
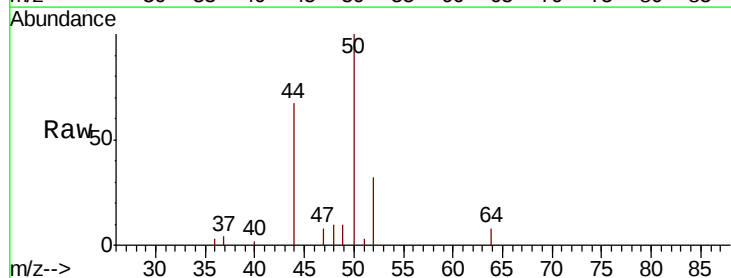
Acq: 07 Feb 2020 12:27

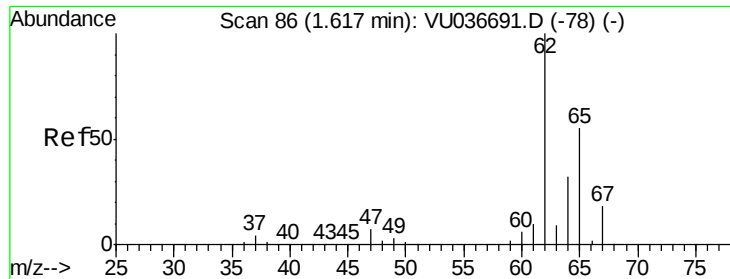
Tgt Ion: 50 Resp: 5768

Ion Ratio Lower Upper

50 100

52 32.4 22.9 42.5





#5

Vinyl chloride

Concen: 2.795 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 62 Resp: 6450

Ion Ratio Lower Upper

62 100

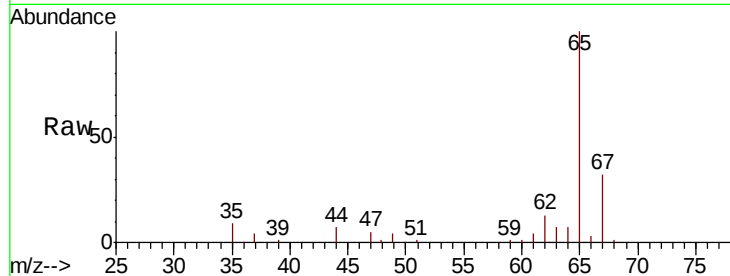
64 54.8 23.4 43.6#

Manual Integrations

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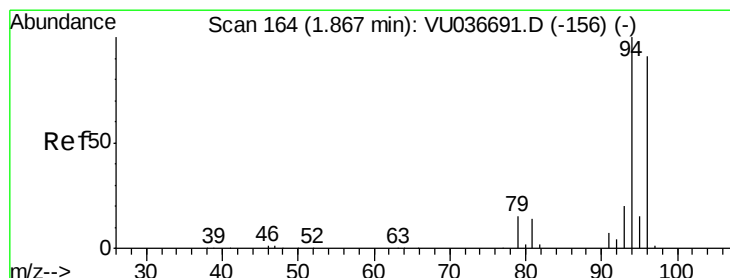
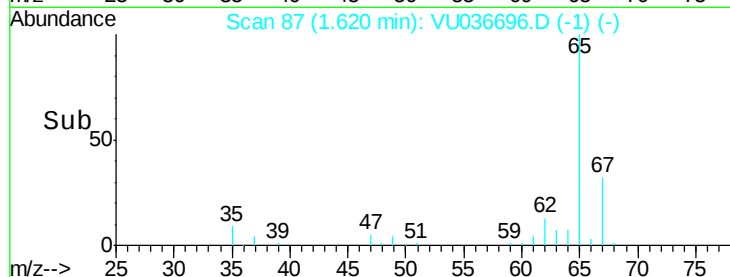
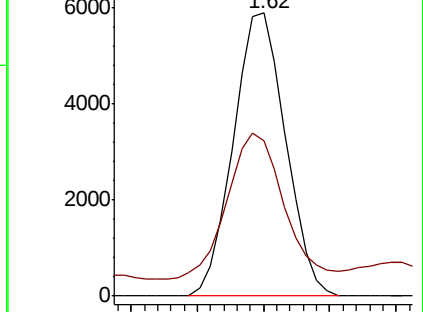
MMDadoda

2/10/2020 11:54:10 AM



Abundance Ion 62.00 (61.70 to 62.70): VU036696.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU036696.D (-78) (-)



#6

Bromomethane

Concen: 2.519 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU036696.D

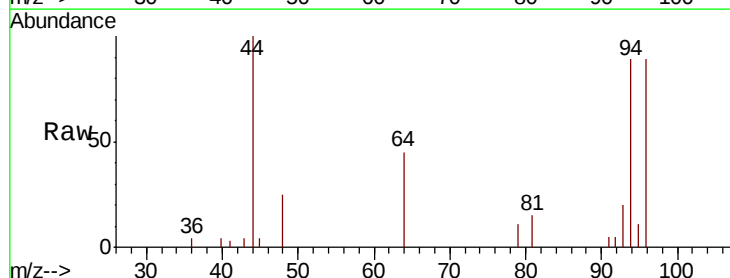
Acq: 07 Feb 2020 12:27

Tgt Ion: 94 Resp: 3645

Ion Ratio Lower Upper

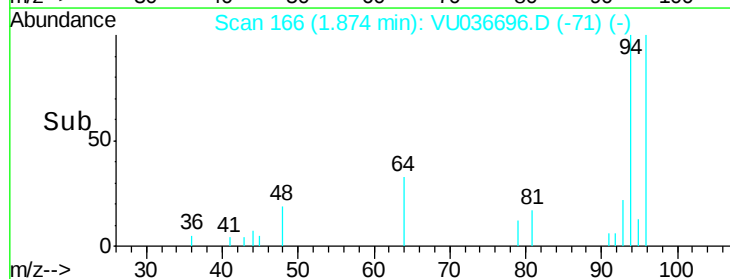
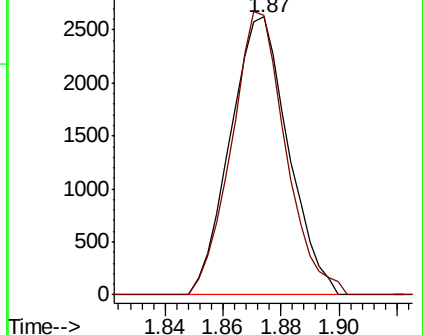
94 100

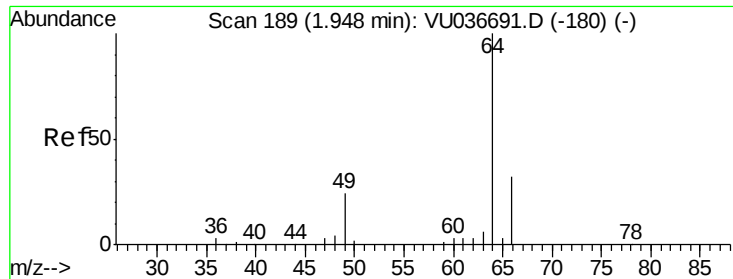
96 100.3 66.3 123.1



Abundance Ion 94.00 (93.70 to 94.70): VU036696.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU036696.D (-156) (-)





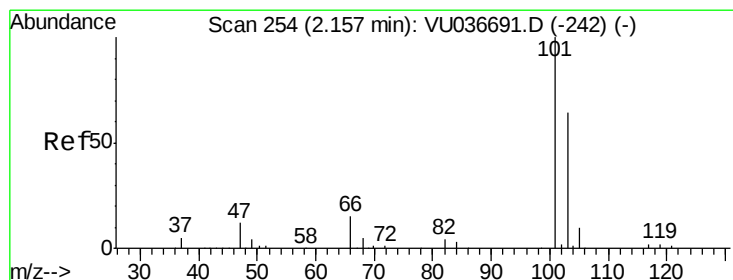
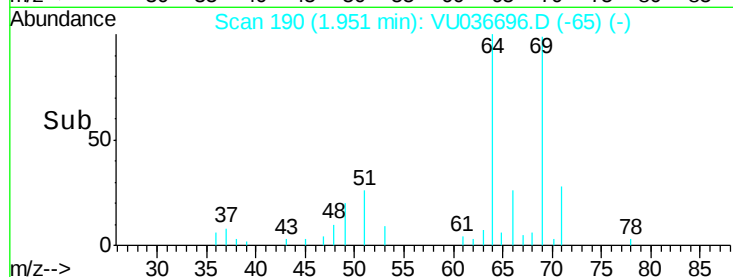
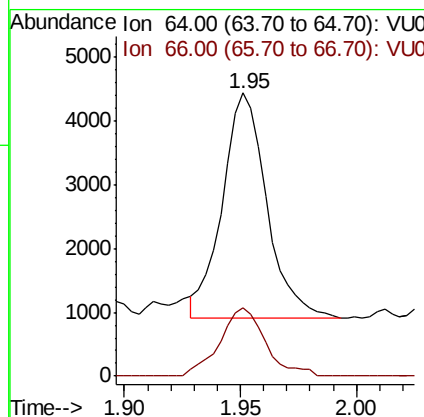
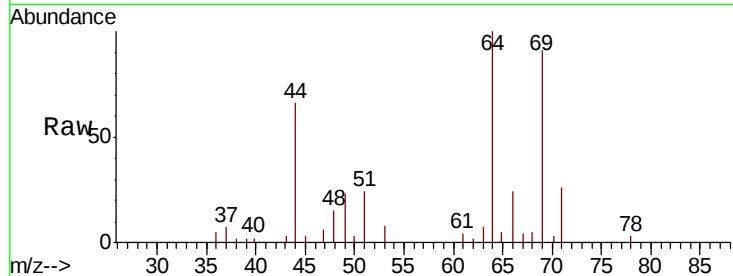
#8
Chloroethane
Concen: 3.216 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion: 64 Resp: 4711
Ion Ratio Lower Upper
64 100
66 24.0 22.1 41.1

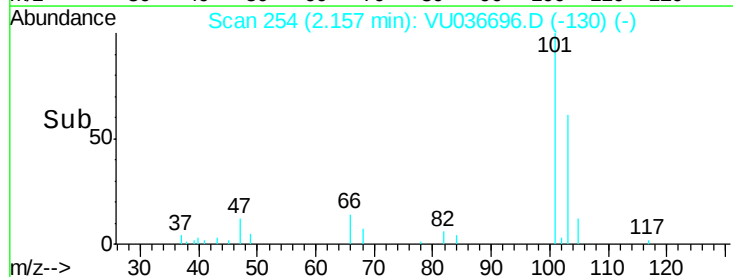
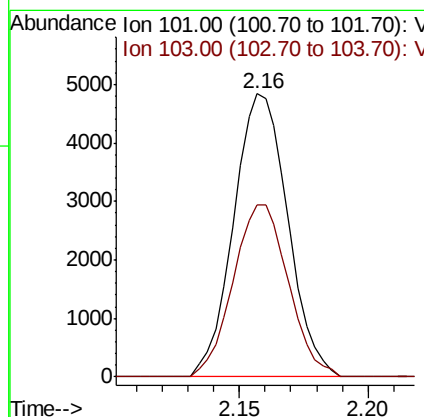
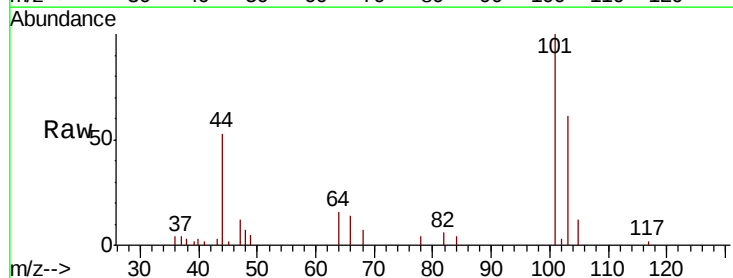
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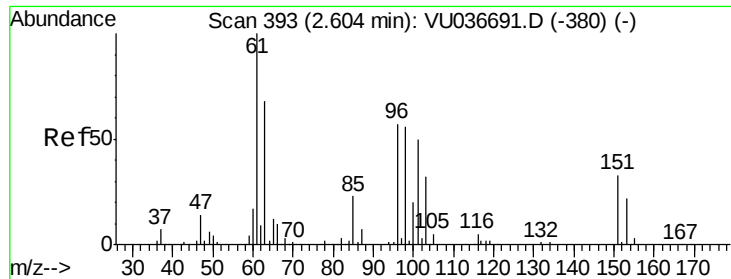
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#9
Trichlorofluoromethane
Concen: 2.581 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Tgt Ion: 101 Resp: 7078
Ion Ratio Lower Upper
101 100
103 62.2 51.6 77.4





#10

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

Concen: 3.083 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

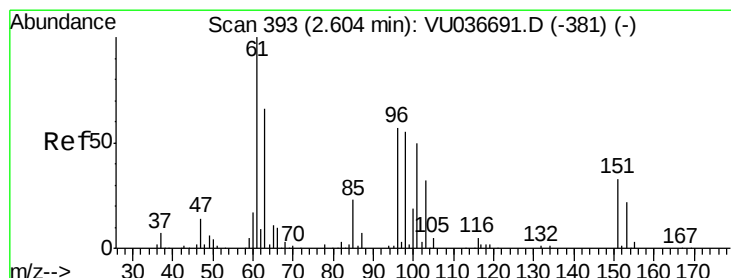
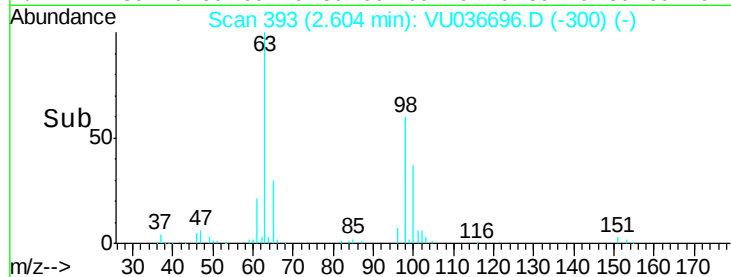
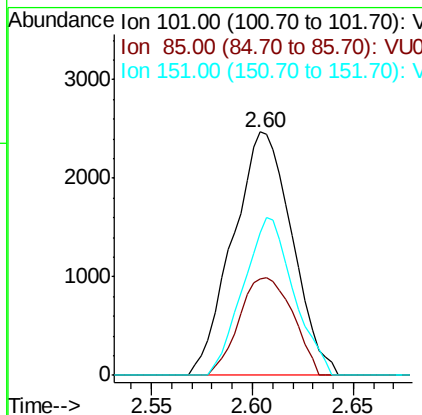
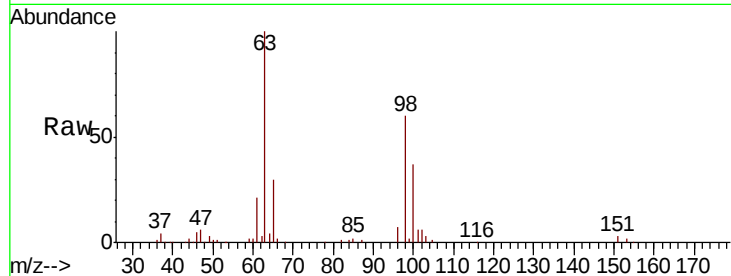
ClientSampled :

MDL03

Tot Ion:	101	Resp:	5064
Ion Ratio	Lower	Upper	
101	100		
85	36.4	36.5	54.7#
151	55.3	52.6	78.8

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#12

1,1-Dichloroethene

Concen: 3.234 ug/L

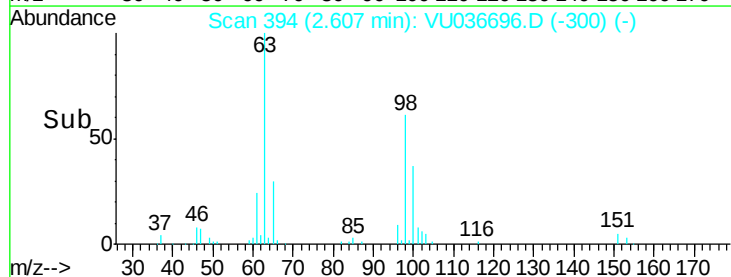
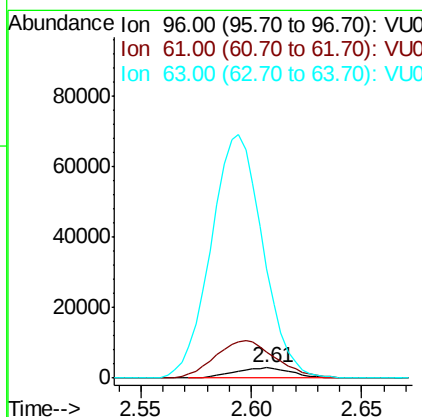
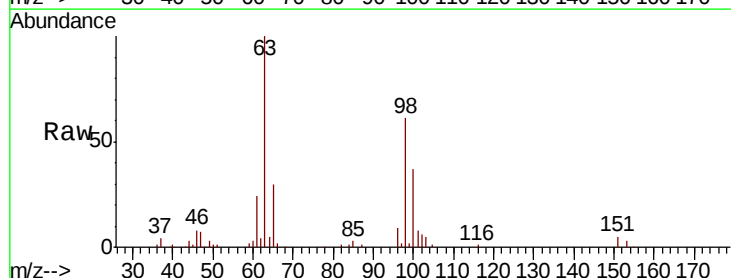
RT: 2.61 min Scan# 394

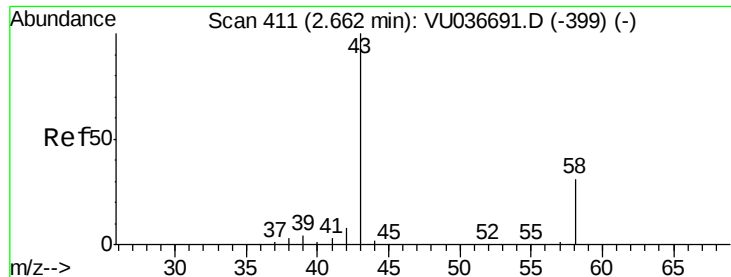
Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Tgt Ion:	96	Resp:	5172
Ion Ratio	Lower	Upper	
96	100		
61	259.4	124.4	231.0#
63	1082.9	83.4	155.0#





#13

Acetone

Concen: 7.468 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 11816

Ion Ratio Lower Upper

43 100

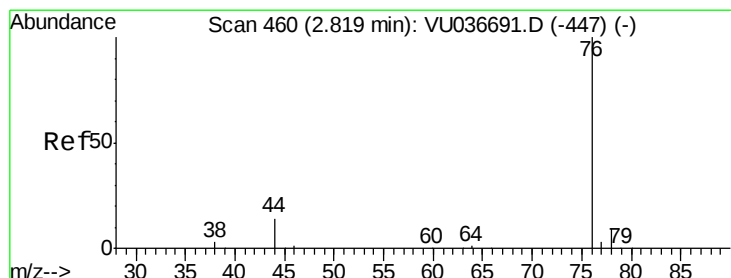
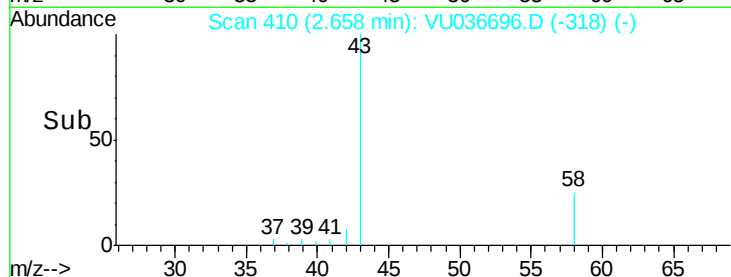
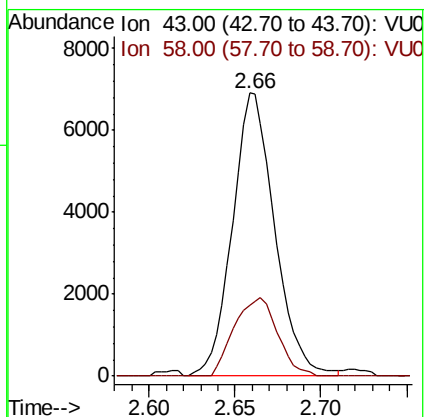
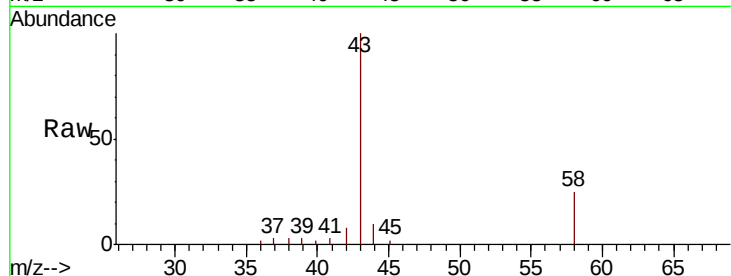
58 28.3 0.0 64.0

Manual Integrations

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2/10/2020 11:54:10 AM



#14

Carbon disulfide

Concen: 2.496 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036696.D

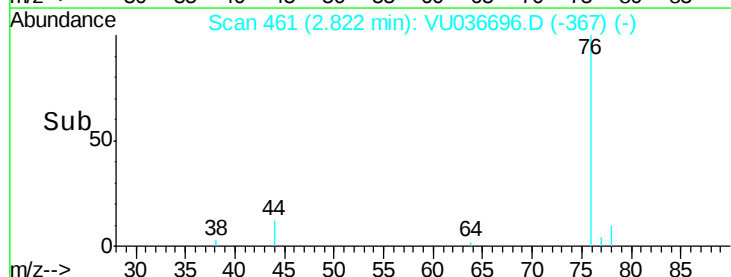
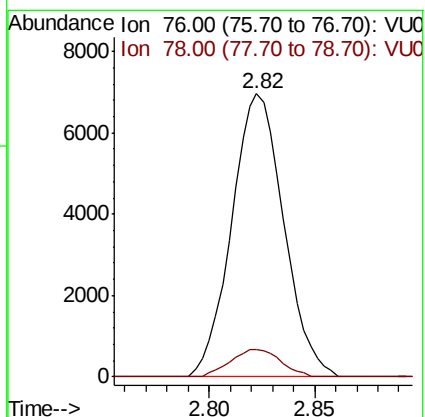
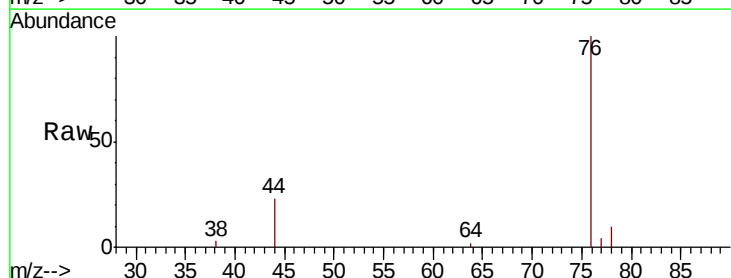
Acq: 07 Feb 2020 12:27

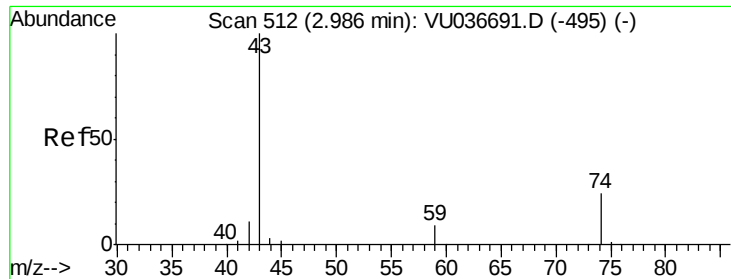
Tgt Ion: 76 Resp: 11926

Ion Ratio Lower Upper

76 100

78 9.6 7.3 10.9





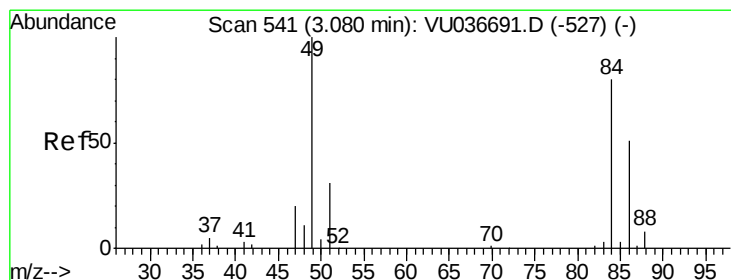
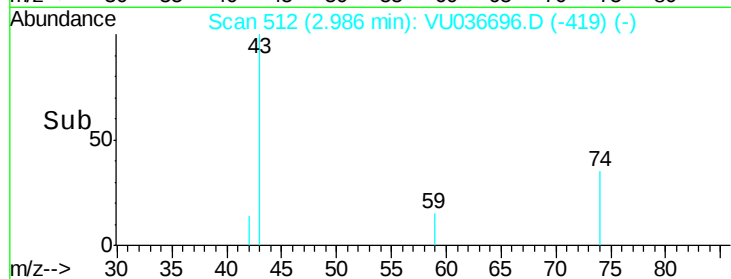
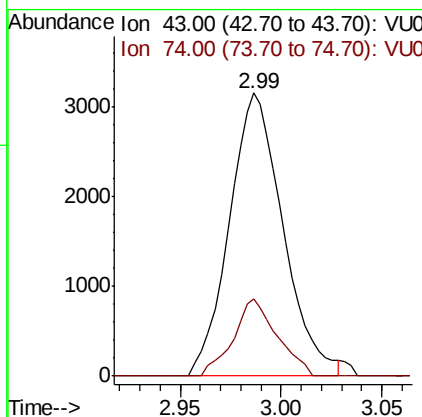
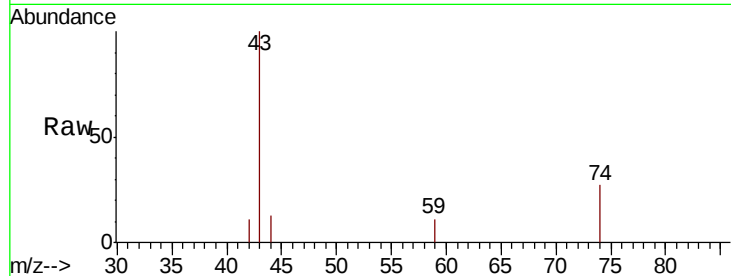
#15
Methvl Acetate
Concen: 2.562 ug/L
RT: 2.99 min Scan# 512
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion: 43 Resp: 5861
Ion Ratio Lower Upper
43 100
74 22.4 18.7 28.1

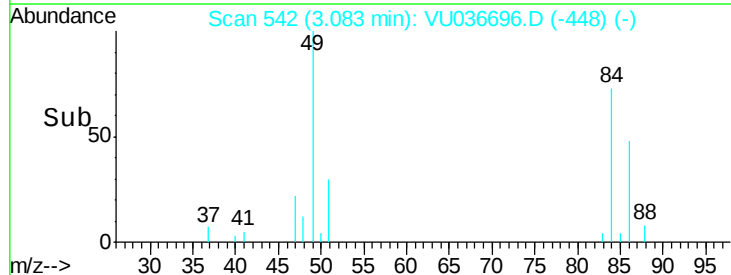
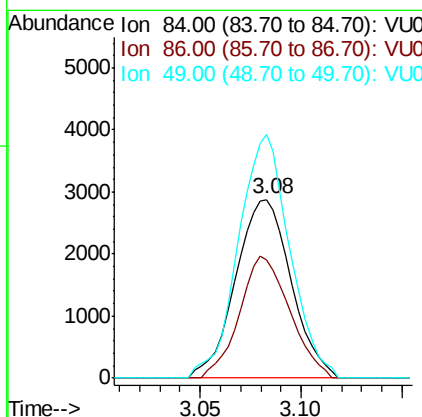
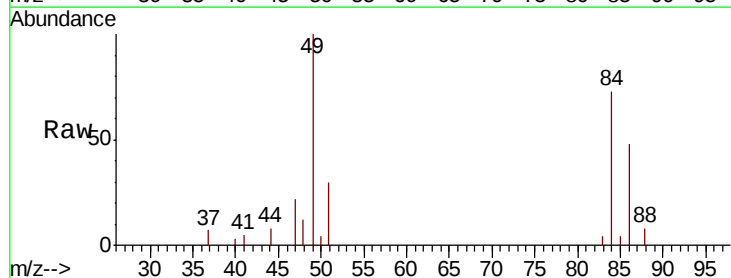
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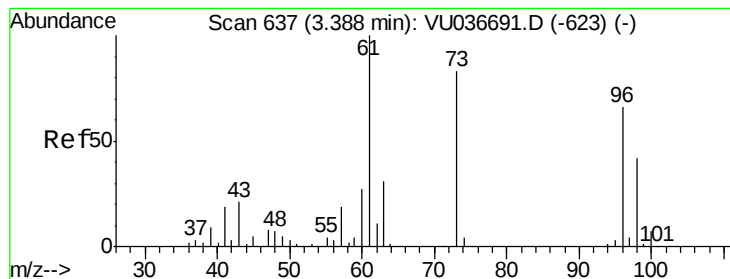
MMDadoda
2/10/2020 11:54:10 AM



#16
Methylene chloride
Concen: 2.798 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Tgt Ion: 84 Resp: 5523
Ion Ratio Lower Upper
84 100
86 66.1 44.4 82.5
49 136.3 89.2 165.8





#17

trans-1,2-Dichloroethene

Concen: 2.637 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 96 Resp: 4486

Ion Ratio Lower Upper

96 100

61 156.2 103.4 192.0

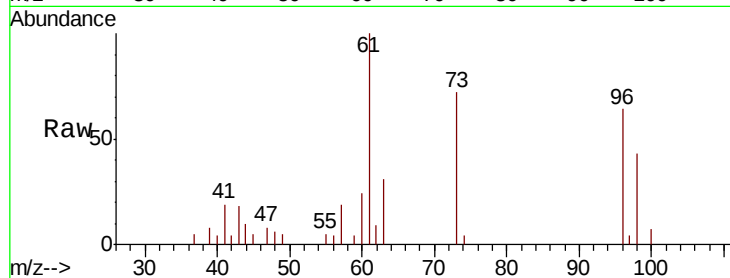
98 66.5 45.4 84.2

Manual Integrations

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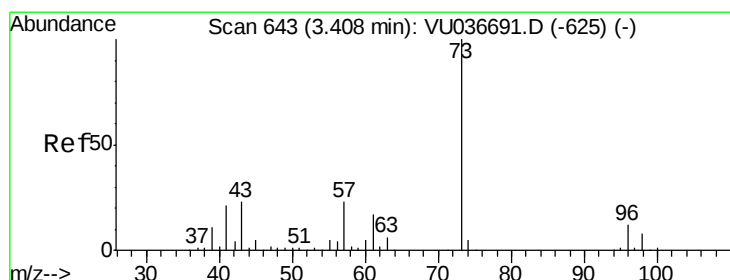
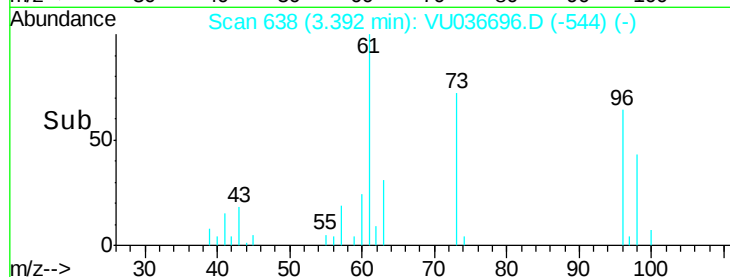
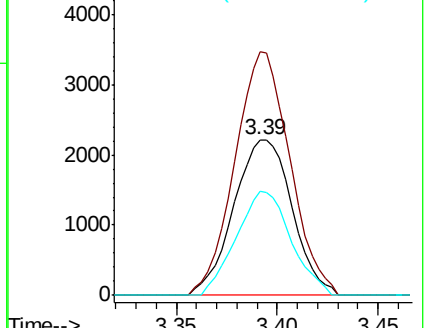
2/10/2020 11:54:10 AM



Abundance Ion 96.00 (95.70 to 96.70): VU036696.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU036696.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU036696.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 2.526 ug/L

RT: 3.41 min Scan# 645

Delta R.T. 0.01 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

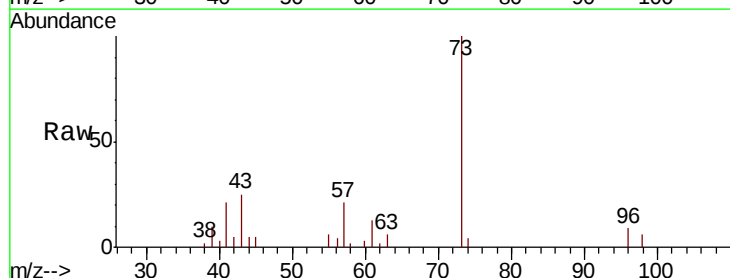
Tgt Ion: 73 Resp: 14915

Ion Ratio Lower Upper

73 100

43 24.7 18.6 28.0

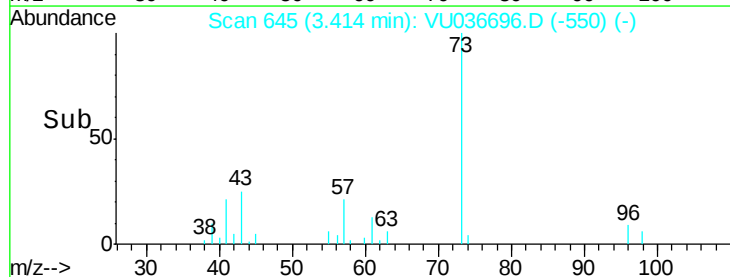
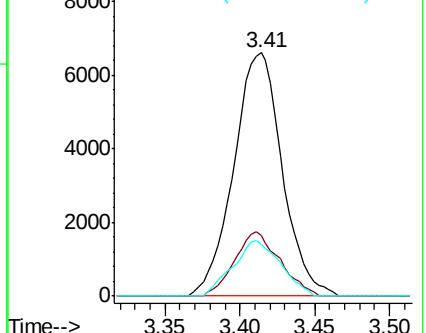
57 22.4 18.3 27.5

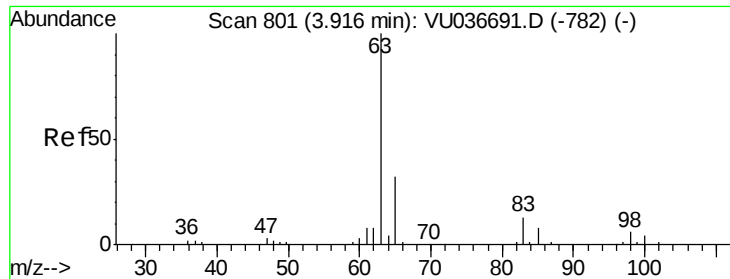


Abundance Ion 73.00 (72.70 to 73.70): VU036696.D (-550) (-)

Ion 43.00 (42.70 to 43.70): VU036696.D (-550) (-)

Ion 57.00 (56.70 to 57.70): VU036696.D (-550) (-)





#19

1,1-Dichloroethane

Concen: 2.568 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

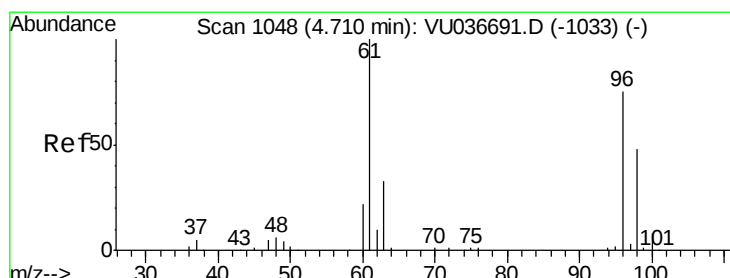
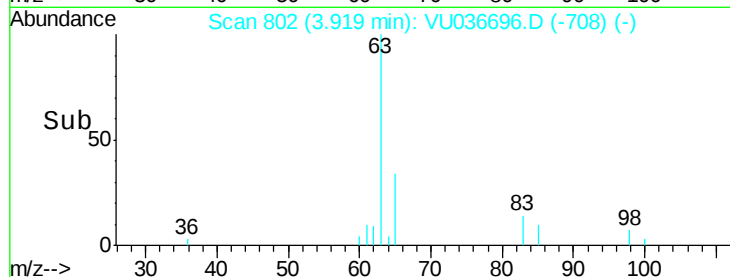
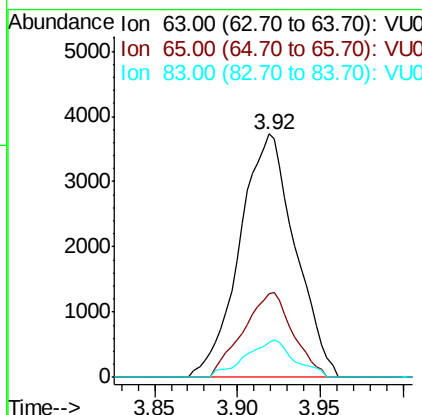
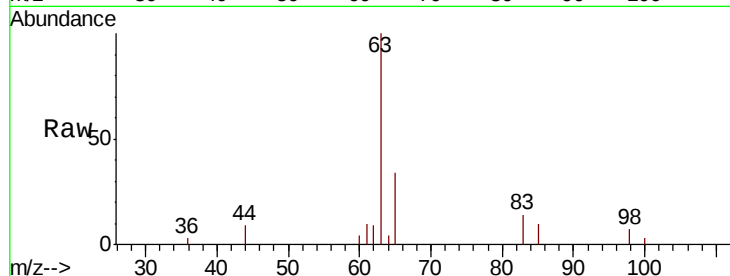
ClientSampled :

MDL03

Tot Ion:	63	Resp:	8706
Ion	Ratio	Lower	Upper
63	100		
65	34.4	22.0	40.8
83	14.4	10.1	18.7

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#20

cis-1,2-Dichloroethene

Concen: 2.527 ug/L

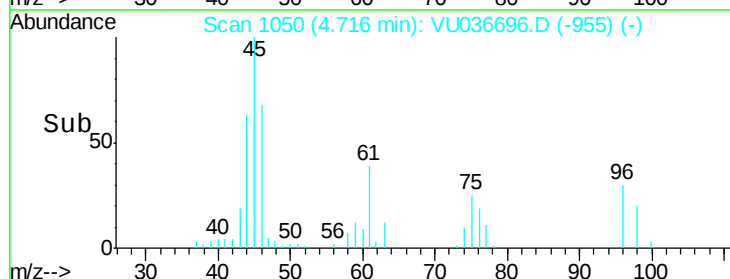
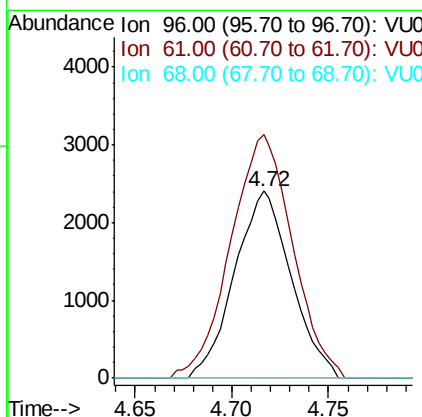
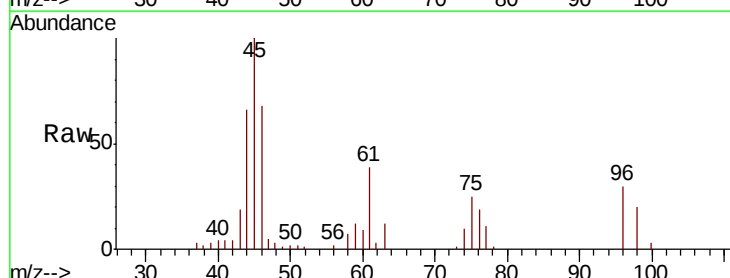
RT: 4.72 min Scan# 1050

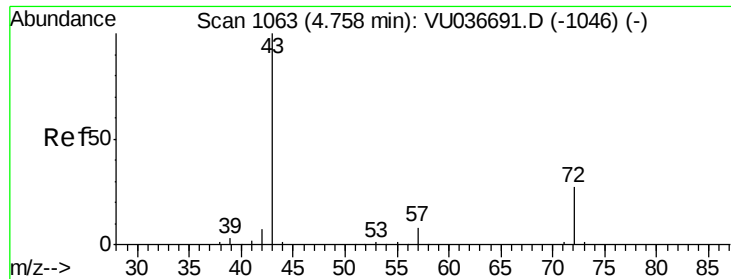
Delta R.T. 0.01 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Tgt Ion:	96	Resp:	4899
Ion	Ratio	Lower	Upper
96	100		
61	130.1	93.3	173.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 9.625 ug/L

RT: 4.76 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 43 Resp: 18075

Ion Ratio Lower Upper

43 100

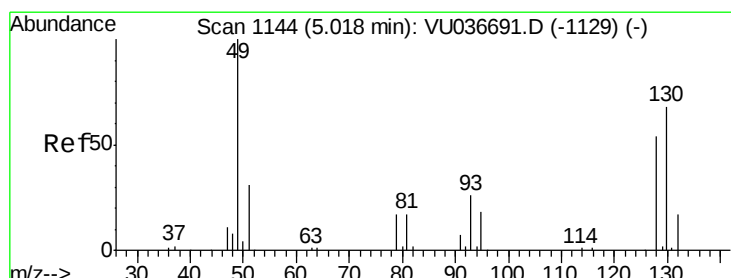
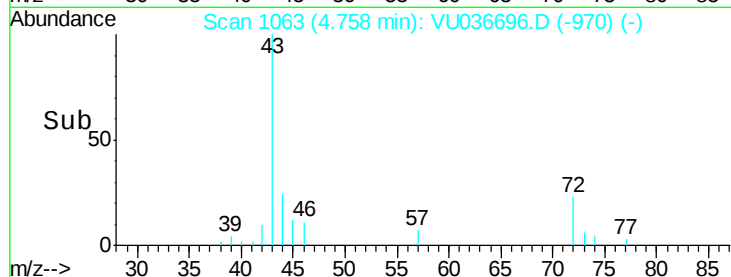
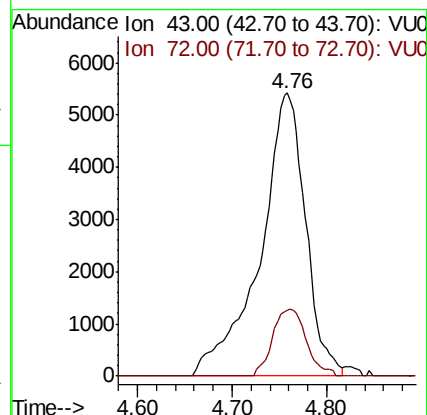
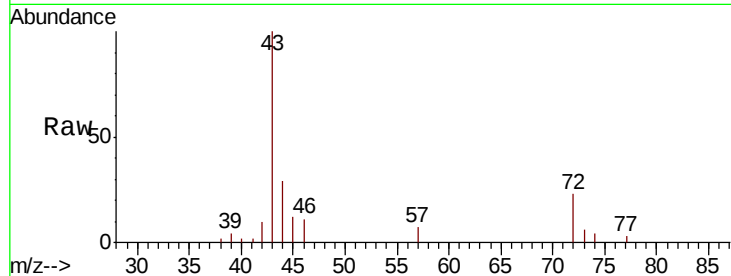
72 17.6 13.6 40.7

Manual Integrations

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#23

Bromochloromethane

Concen: 2.641 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Tgt Ion: 128 Resp: 2399

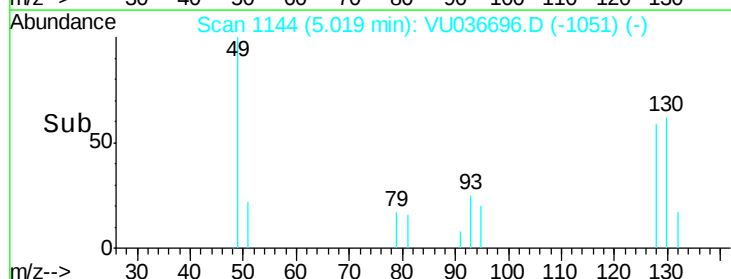
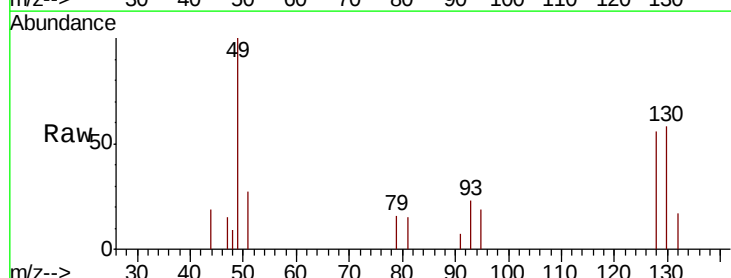
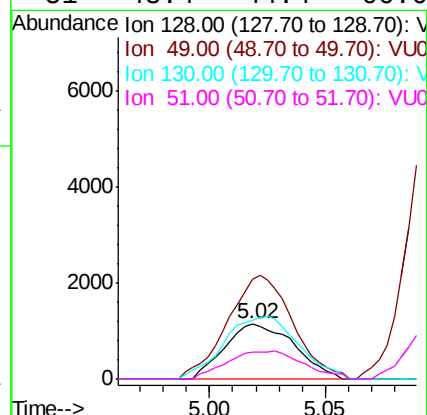
Ion Ratio Lower Upper

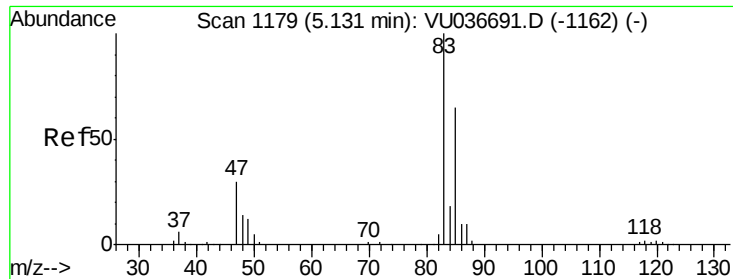
128 100

49 179.5 127.3 236.5

130 105.0 88.5 164.3

51 48.4 44.4 66.6





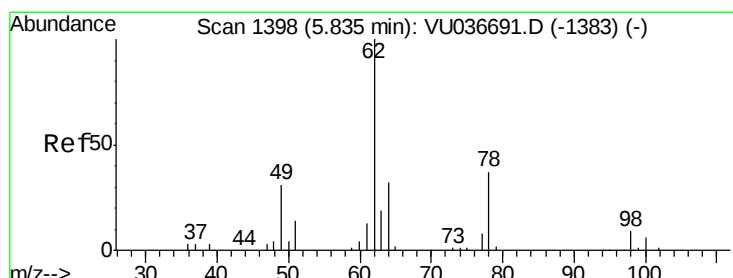
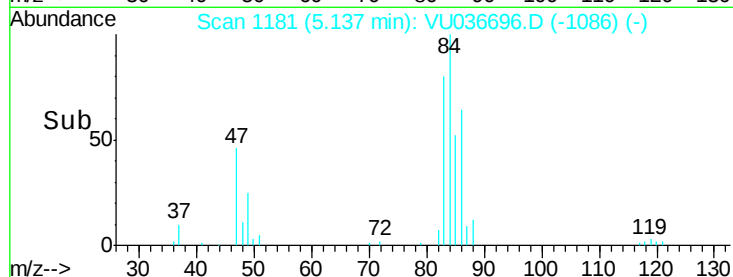
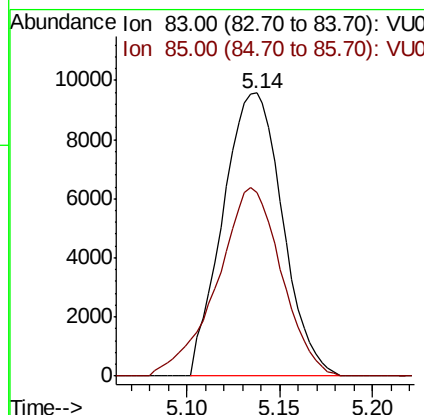
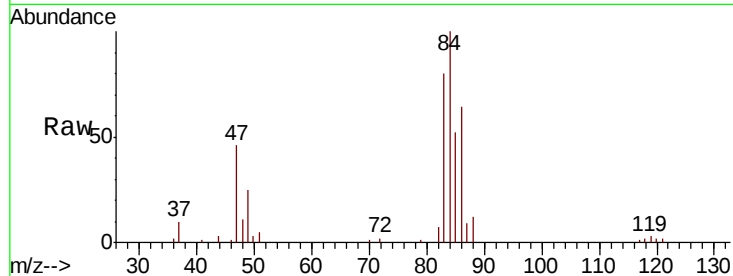
#25
Chloroform
Concen: 6.501 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion: 83 Resp: 21436
Ion Ratio Lower Upper
83 100
85 65.0 44.6 82.8

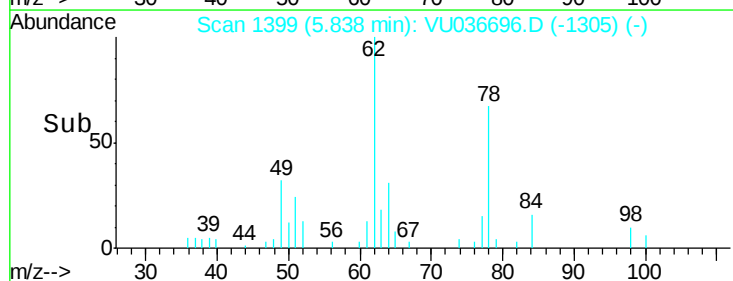
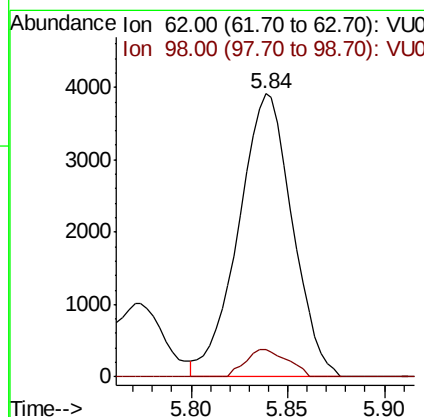
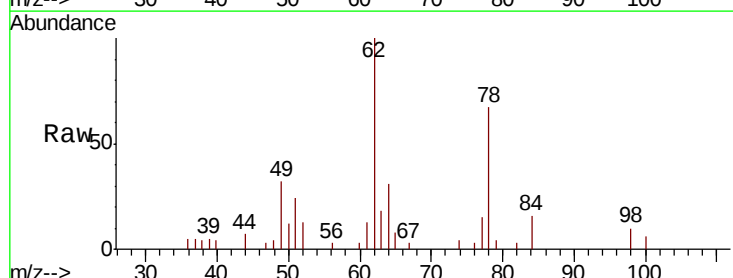
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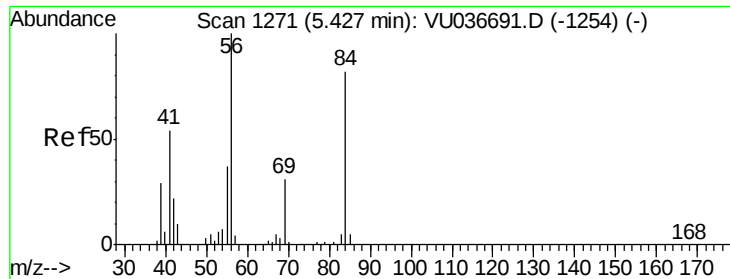
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.733 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Tgt Ion: 62 Resp: 7579
Ion Ratio Lower Upper
62 100
98 9.8 7.0 10.4





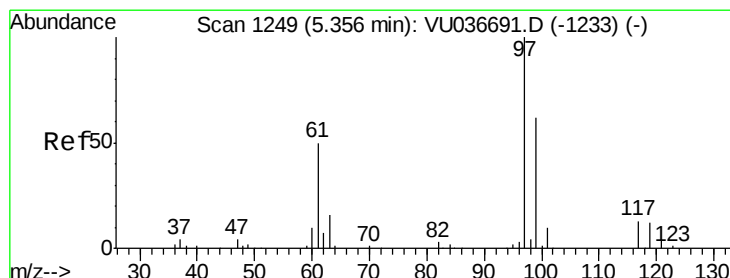
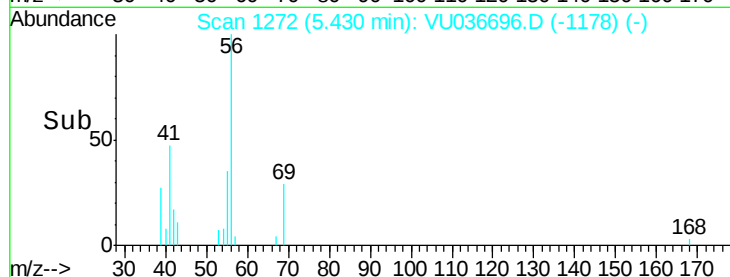
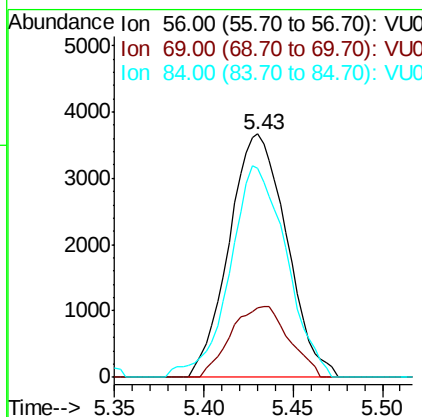
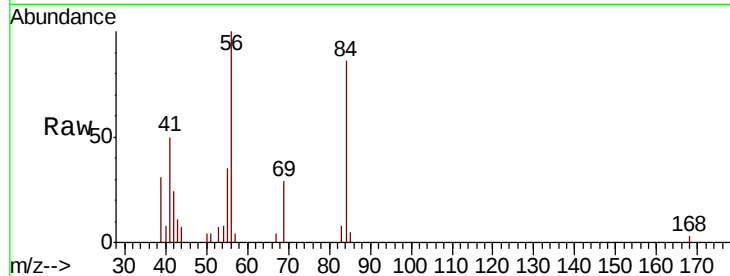
#29
Cyclohexane
Concen: 2.619 ug/L
RT: 5.43 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.4	25.0	37.4
84	84.1	68.2	102.2

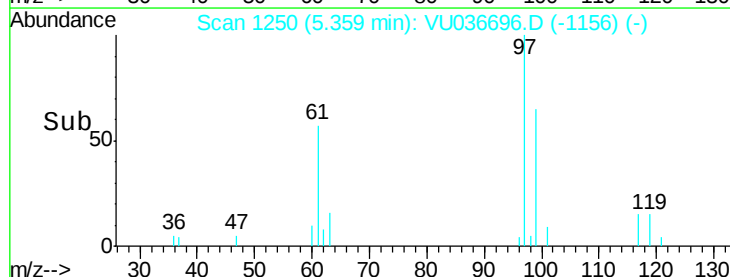
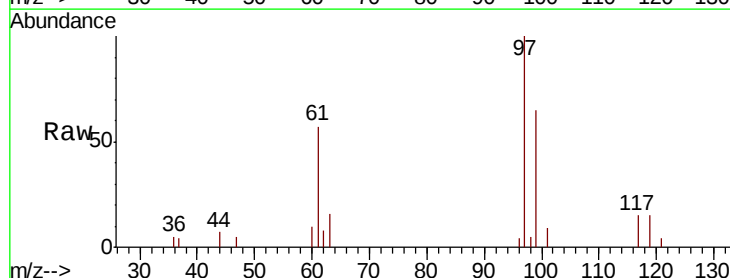
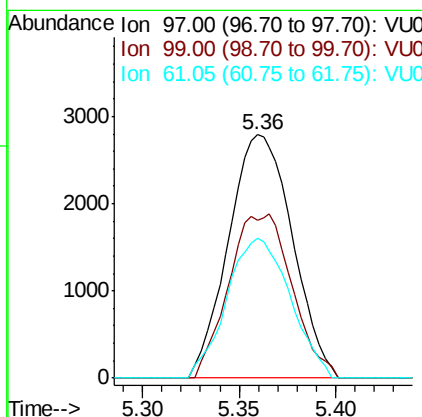
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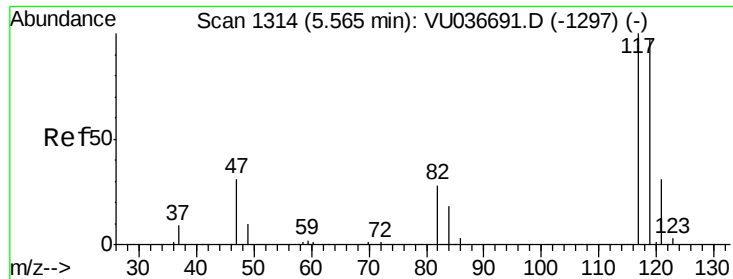
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.454 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	32.9	50.9	76.3#
61	57.0	40.2	60.2





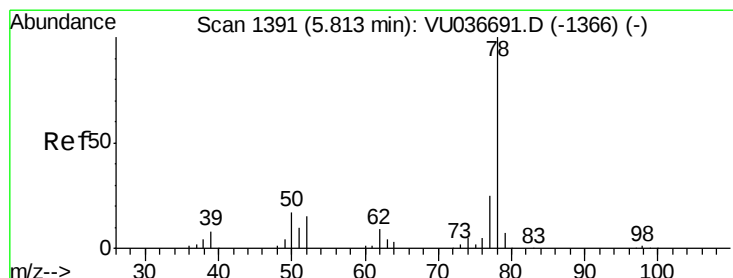
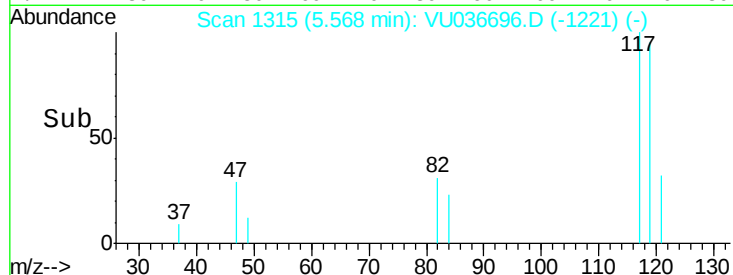
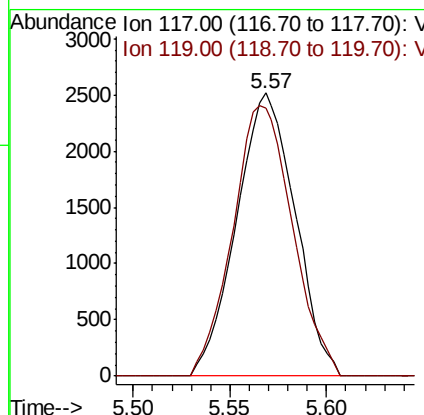
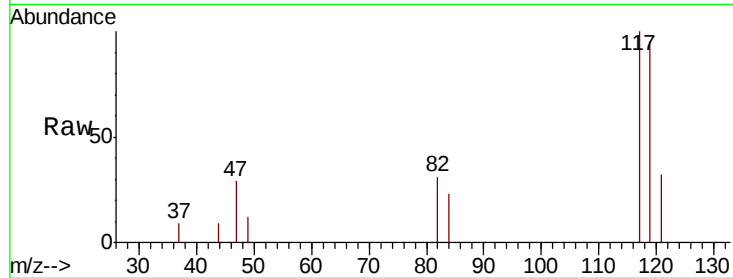
#31
Carbon tetrachloride
Concen: 2.506 ug/L
RT: 5.57 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion:117 Resp: 5297
Ion Ratio Lower Upper
117 100
119 97.5 76.2 114.4

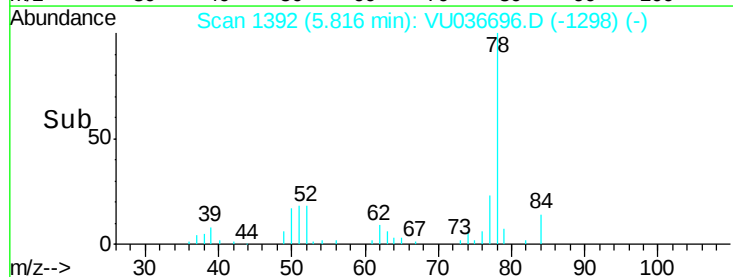
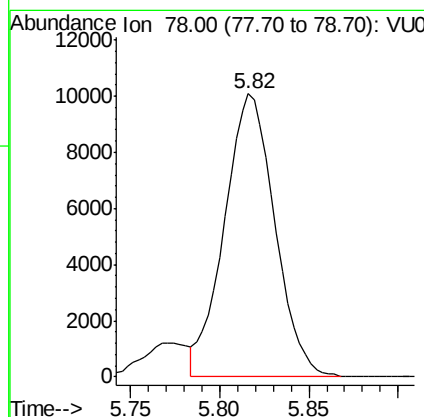
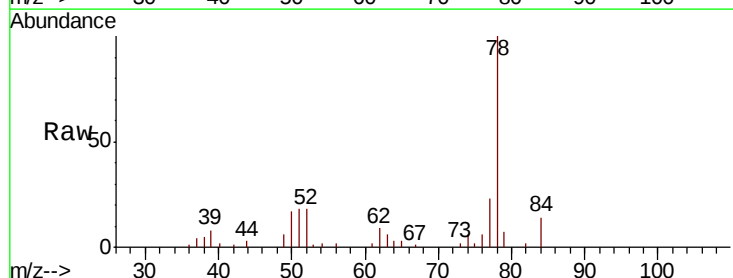
Manual Integrations
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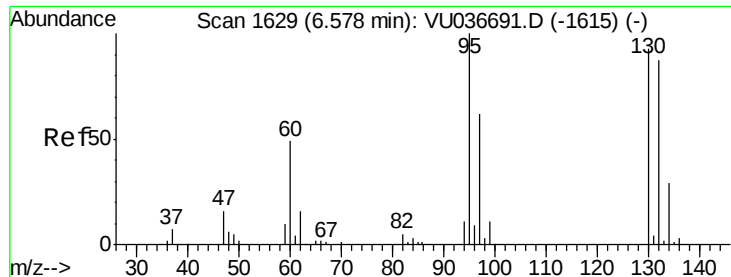
MMDadoda
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#33
Benzene
Concen: 2.672 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Tgt Ion: 78 Resp: 19855





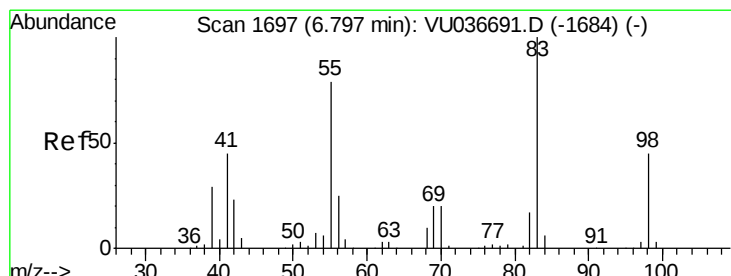
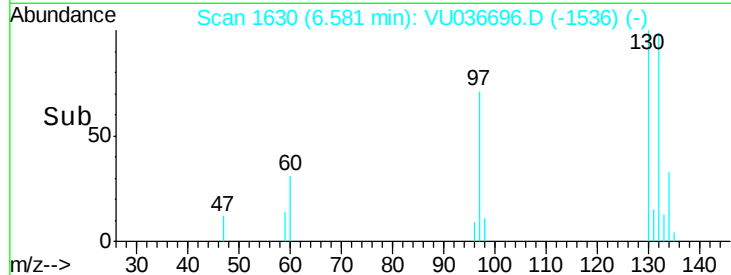
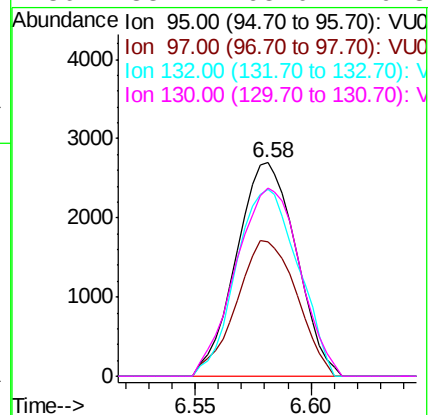
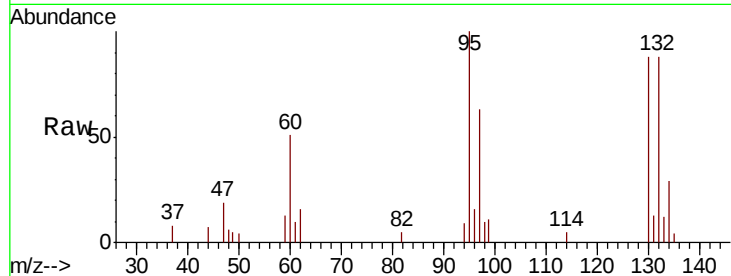
#34
 Trichloroethene
 Concen: 2.628 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion:	95	Resp:	4829
Ion	Ratio	Lower	Upper
95	100		
97	62.8	44.5	82.7
132	87.7	59.6	110.8
130	88.2	65.0	120.8

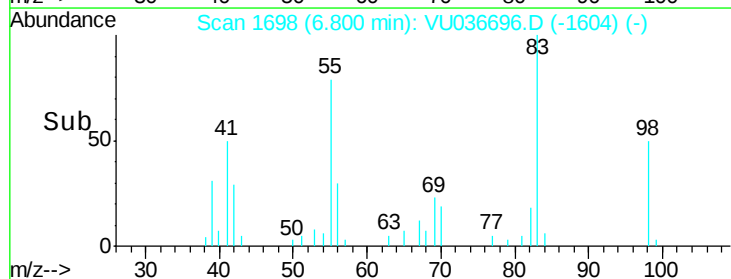
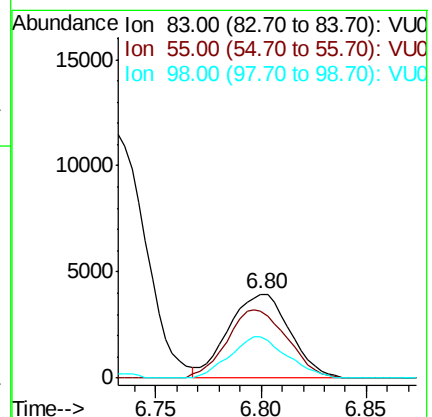
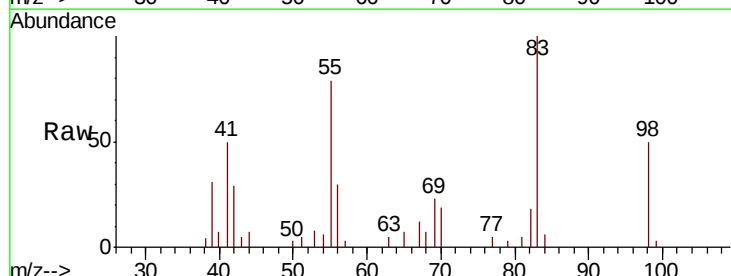
Manual Integrations
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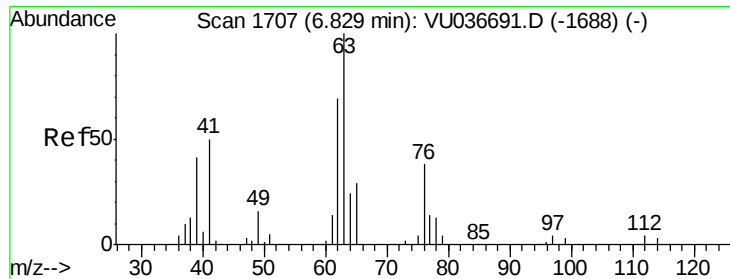
MMDadoda
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#35
 Methylcyclohexane
 Concen: 2.467 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Tgt Ion:	83	Resp:	7983
Ion	Ratio	Lower	Upper
83	100		
55	79.7	61.2	91.8
98	45.9	35.4	53.0





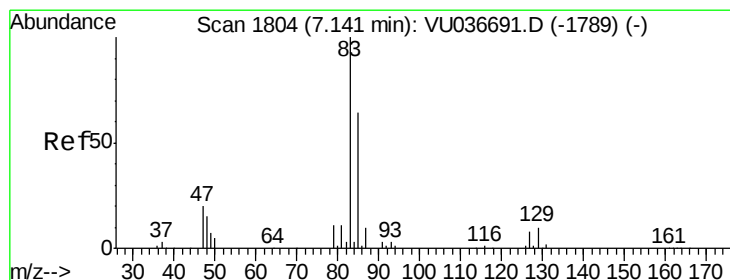
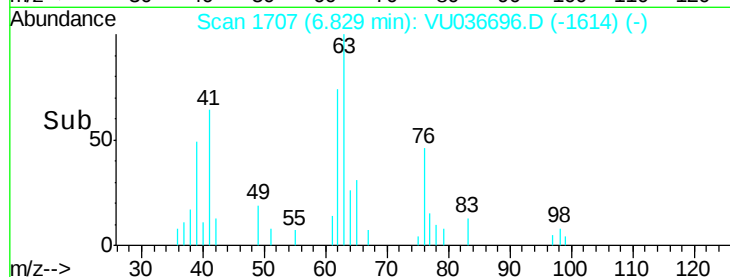
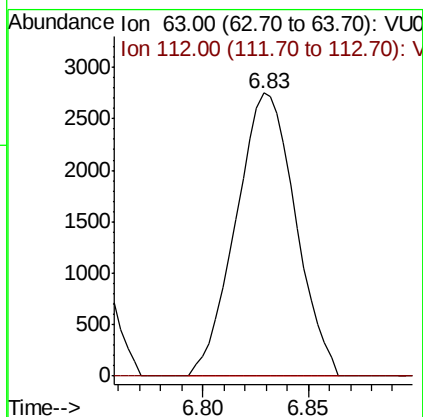
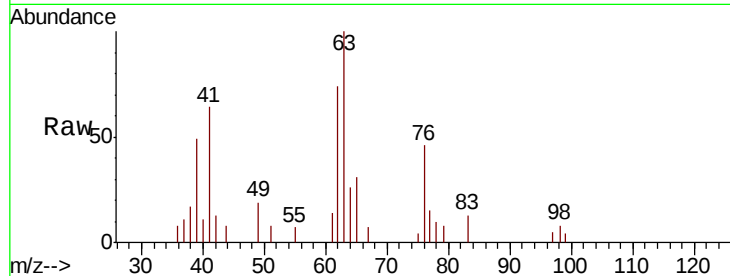
#37
 1,2-Dichloropropane
 Concen: 2.694 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion: 63 Resp: 5398
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#

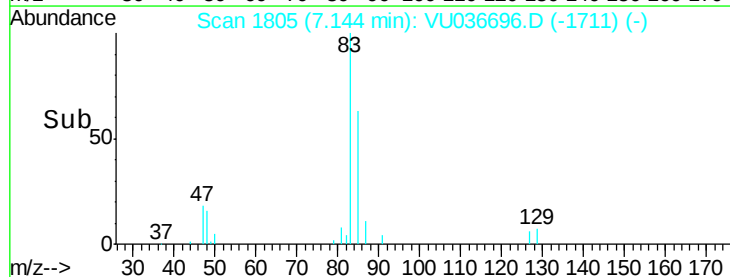
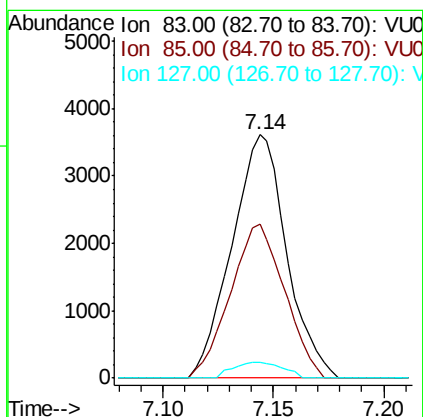
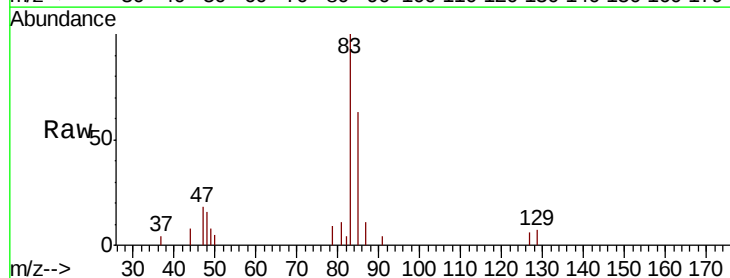
Manual Integrations
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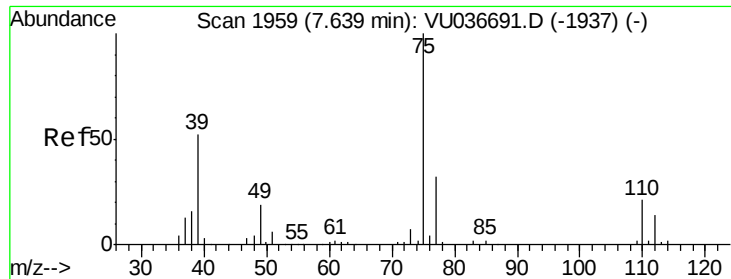
MMDadoda
 2/10/2020 11:54:10 AM



#38
 Bromodichloromethane
 Concen: 2.559 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Tgt Ion: 83 Resp: 6231
 Ion Ratio Lower Upper
 83 100
 85 63.1 43.9 81.5
 127 6.3 6.0 9.0





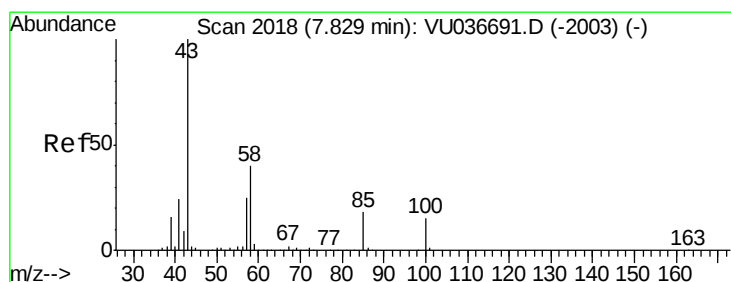
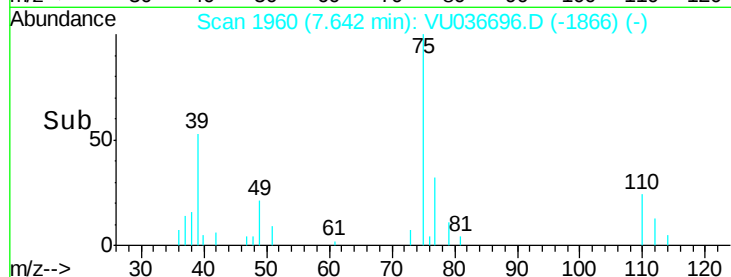
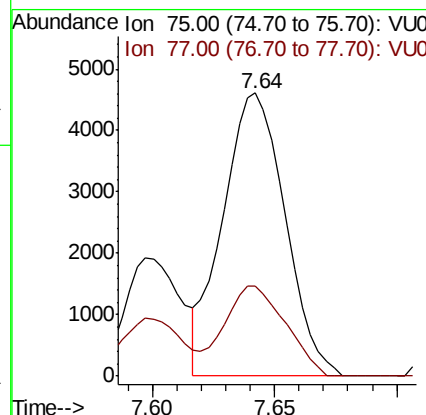
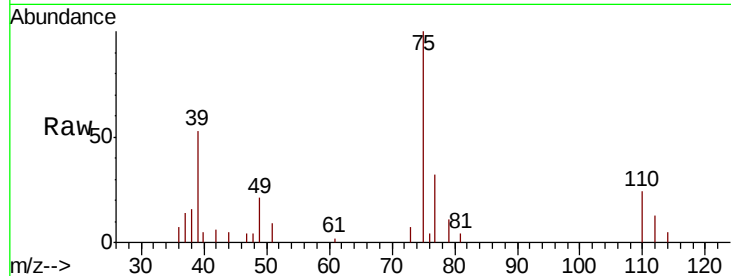
#39
 cis-1,3-Dichloropropene
 Concen: 2.556 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion: 75 Resp: 8185
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.3 41.5

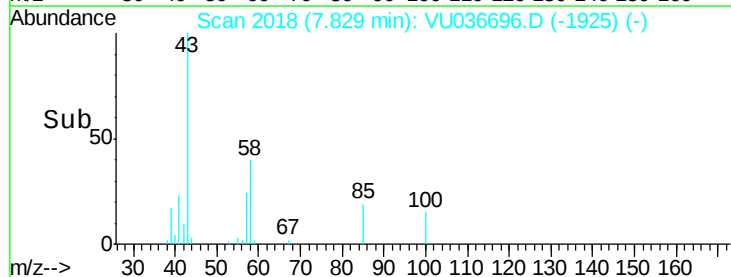
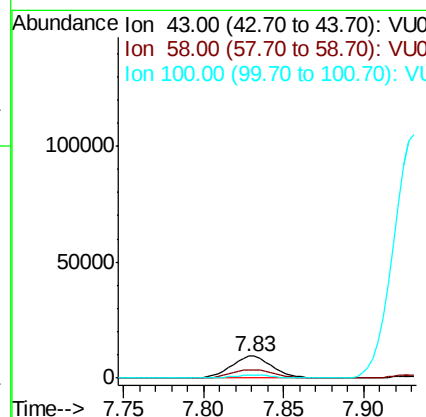
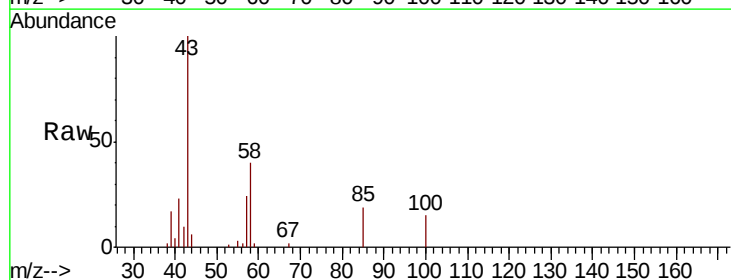
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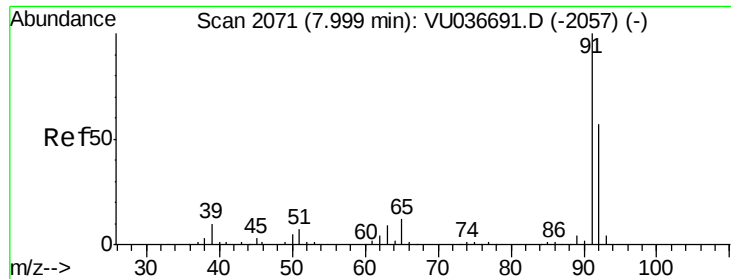
MMDadoda
 2/10/2020 11:54:10 AM



#40
 4-Methyl-2-pentanone
 Concen: 5.209 ug/L
 RT: 7.83 min Scan# 2018
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Tgt Ion: 43 Resp: 16493
 Ion Ratio Lower Upper
 43 100
 58 39.5 31.0 46.6
 100 13.5 11.4 17.2





#42

Toluene

Concen: 2.605 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 91 Resp: 20923

Ion Ratio Lower Upper

91 100

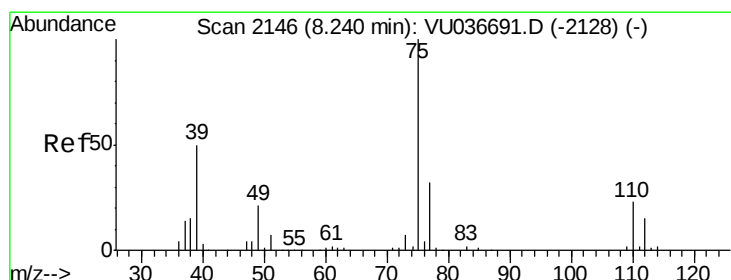
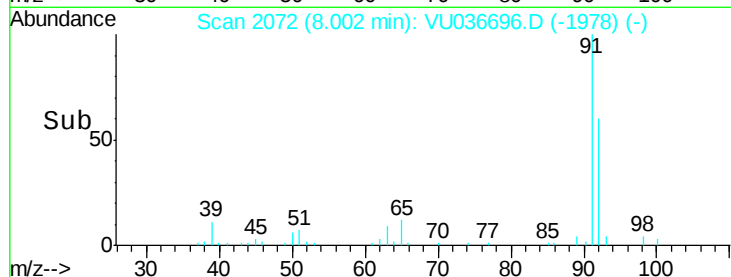
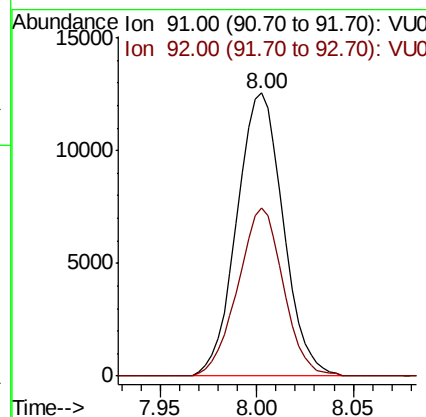
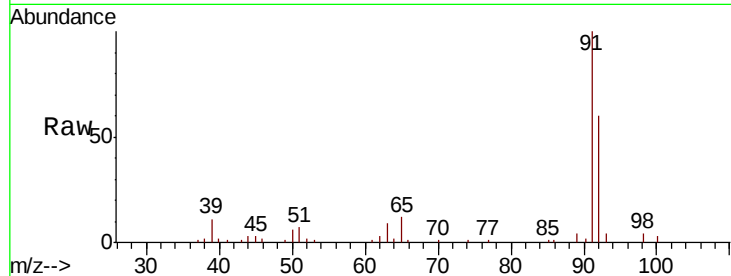
92 59.6 39.5 73.3

Manual Integrations

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MMDadoda

2/10/2020 11:54:10 AM



#44

trans-1,3-Dichloropropene

Concen: 2.581 ug/L m

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036696.D

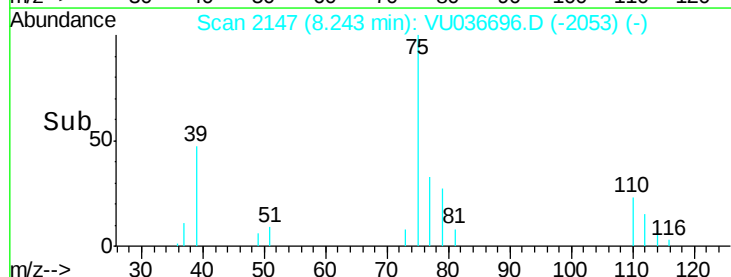
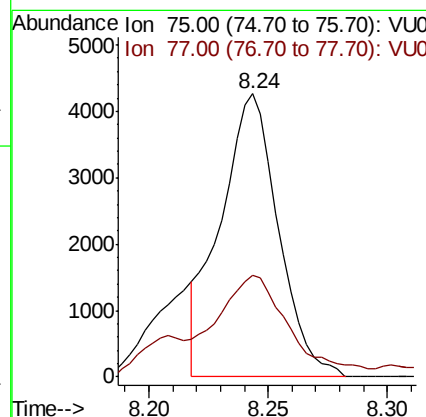
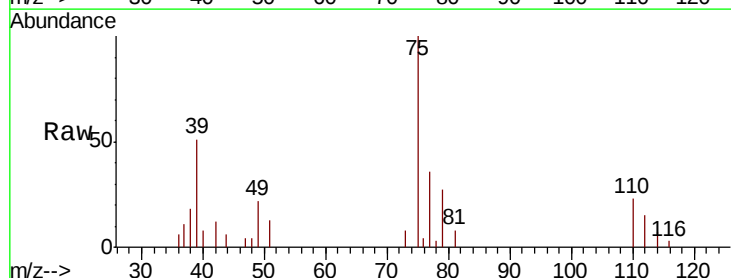
Acq: 07 Feb 2020 12:27

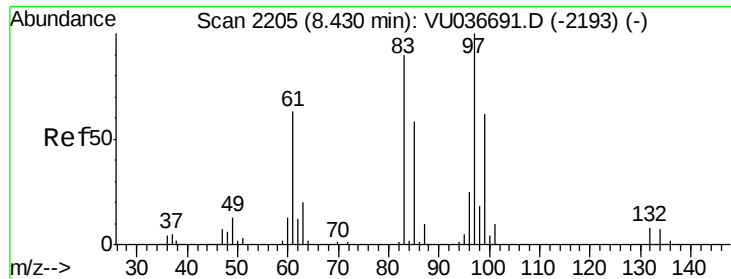
Tgt Ion: 75 Resp: 7219

Ion Ratio Lower Upper

75 100

77 35.9 22.6 42.0





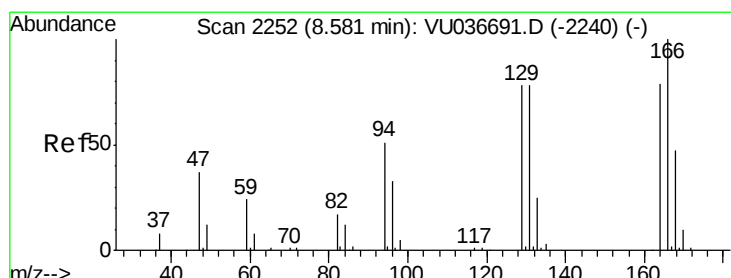
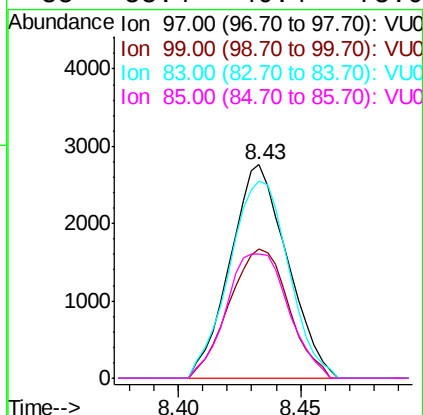
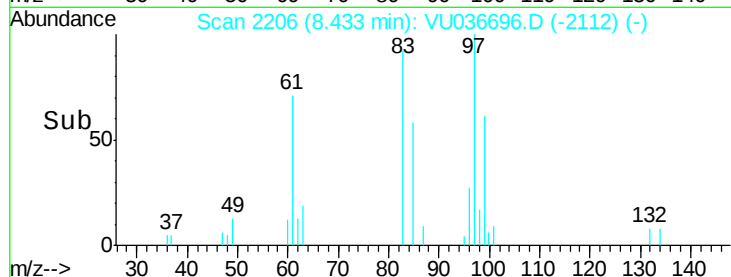
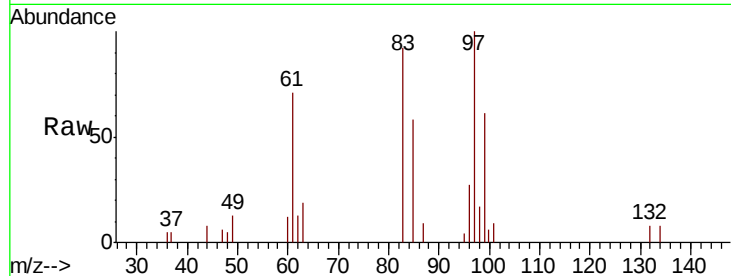
#45
1,1,2-Trichloroethane
Concen: 2.466 ug/L
RT: 8.43 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tot Ion:	97	Resp:	4508
Ion	Ratio	Lower	Upper
97	100		
99	60.6	42.6	79.0
83	92.2	61.1	113.5
85	58.4	40.4	75.0

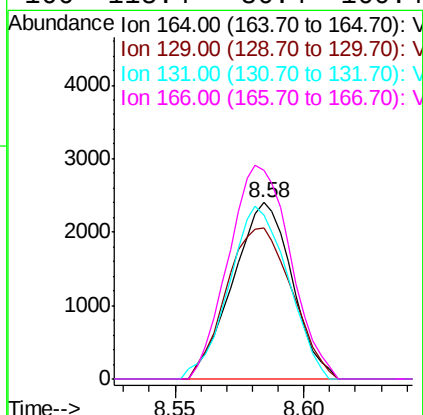
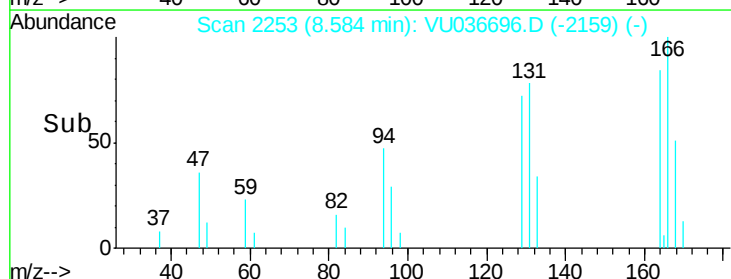
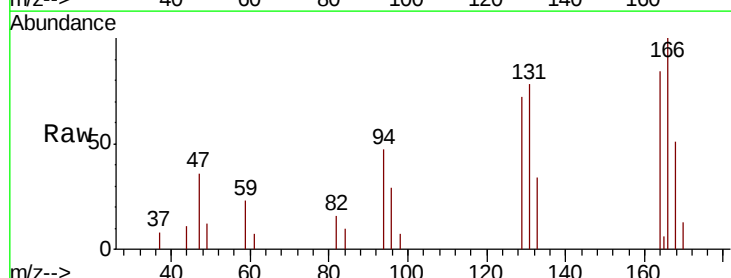
Manual Integrations
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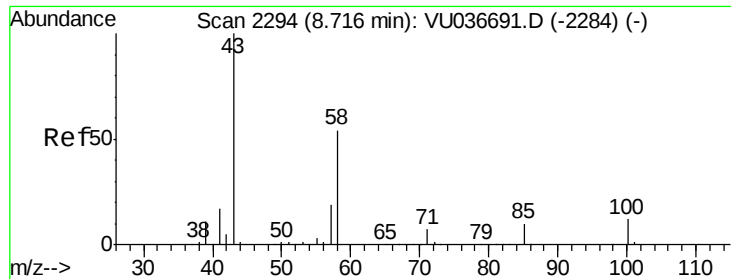
MMDadoda
2/10/2020 11:54:10 AM



#46
Tetrachloroethene
Concen: 2.978 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Tgt Ion:	164	Resp:	3840
Ion	Ratio	Lower	Upper
164	100		
129	85.2	71.0	131.9
131	92.8	66.6	123.6
166	118.4	86.4	160.4





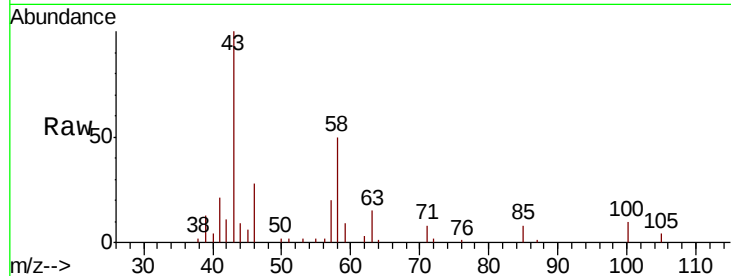
#48
2-Hexanone
Concen: 5.599 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion:	43	Resp:	14461
Ion	Ratio	Lower	Upper
43	100		
58	52.2	43.6	65.4
57	20.4	15.5	23.3
100	10.6	9.0	13.4

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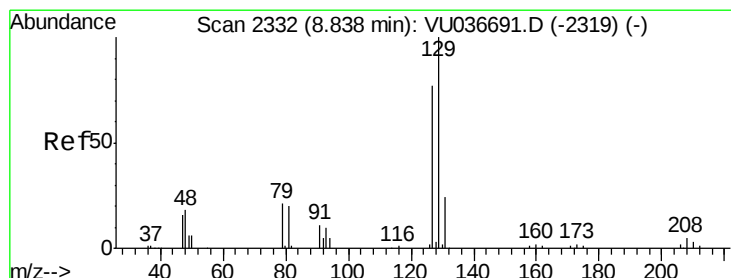
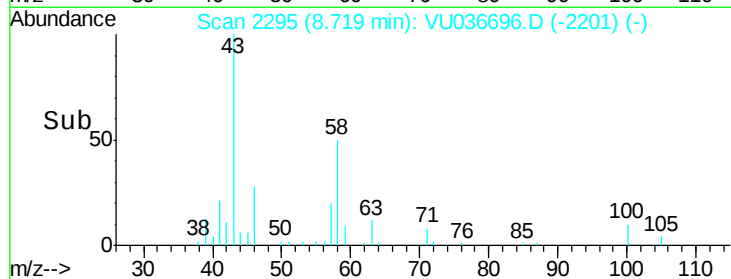
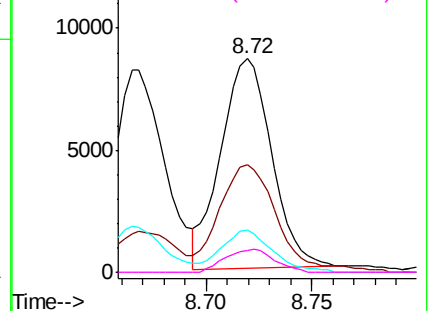


Abundance Ion 43.00 (42.70 to 43.70): VU036696.D (-2201) (-)

Ion 58.00 (57.70 to 58.70): VU036696.D (-2201) (-)

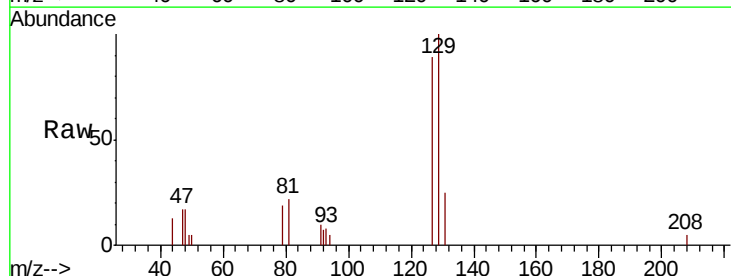
Ion 57.00 (56.70 to 57.70): VU036696.D (-2201) (-)

Ion 100.00 (99.70 to 100.70): VU036696.D (-2201) (-)



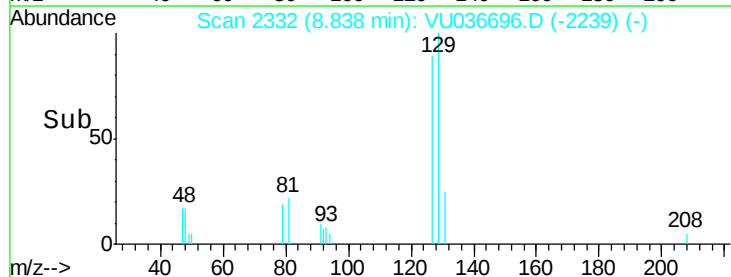
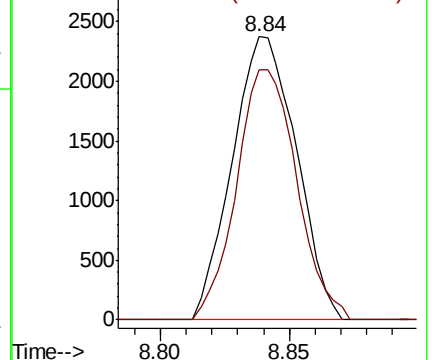
#49
Dibromochloromethane
Concen: 2.300 ug/L
RT: 8.84 min Scan# 2332
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

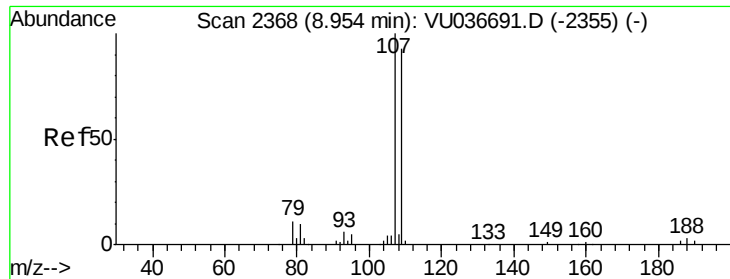
Tgt Ion:	129	Resp:	4113
Ion	Ratio	Lower	Upper
129	100		
127	88.5	53.6	99.6



Abundance Ion 129.00 (128.70 to 129.70): VU036696.D (-2239) (-)

Ion 127.00 (126.70 to 127.70): VU036696.D (-2239) (-)





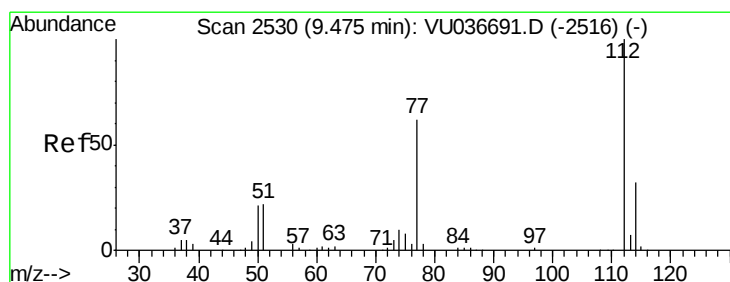
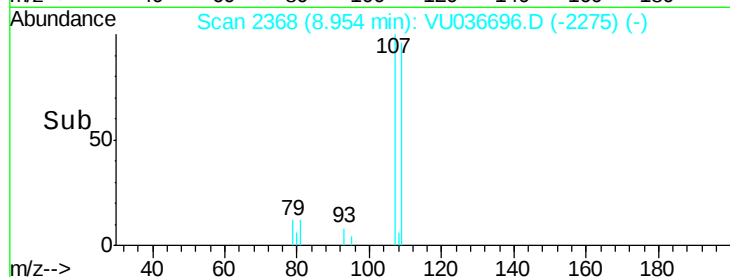
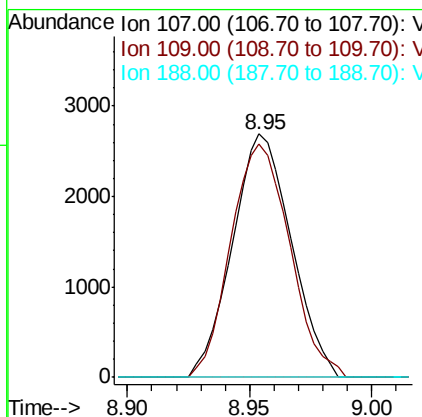
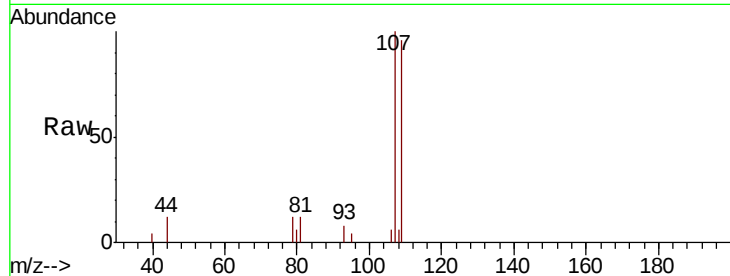
#50
 1,2-Dibromoethane
 Concen: 2.340 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.7	65.8	122.2
188	0.0	2.5	3.7#

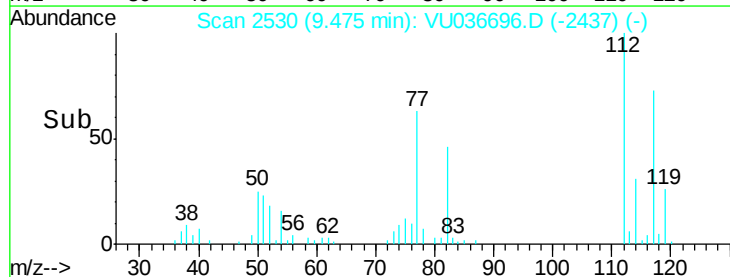
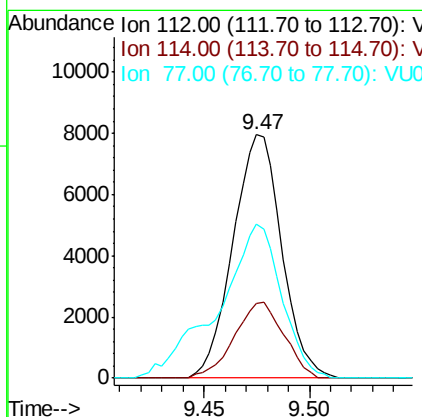
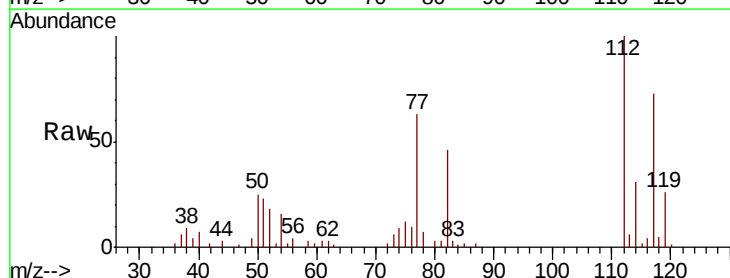
Manual Integrations
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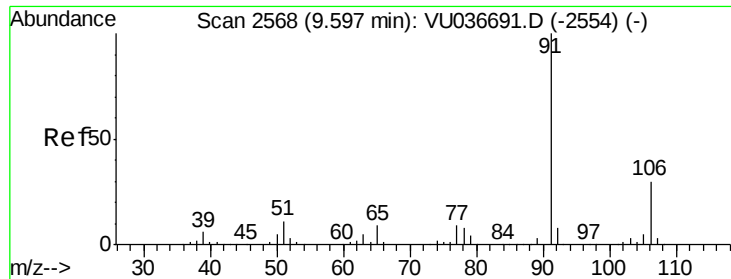
MMDadoda
 2/10/2020 11:54:10 AM



#51
 Chlorobenzene
 Concen: 2.640 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.8	22.7	42.1
77	63.2	50.6	75.8





#52

Ethylbenzene

Concen: 2.457 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion: 91 Resp: 21684

Ion Ratio Lower Upper

91 100

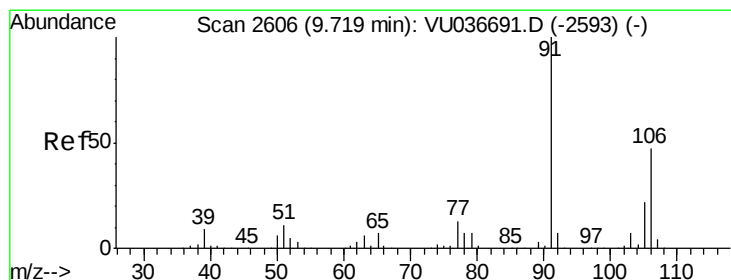
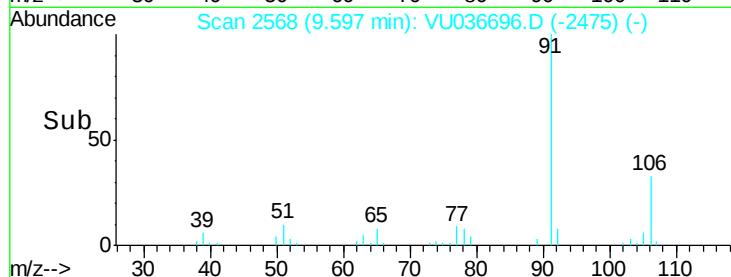
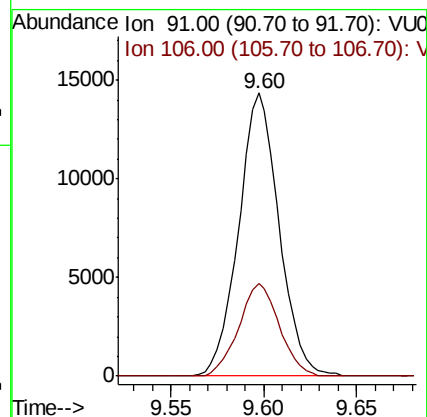
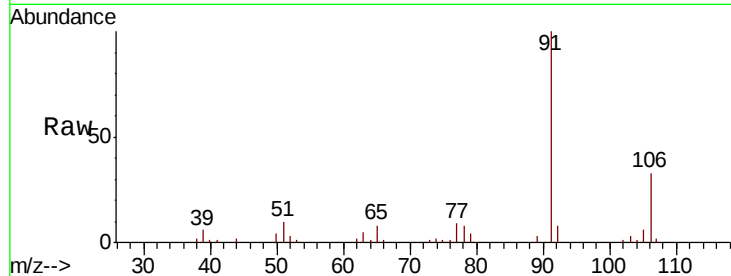
106 32.7 21.3 39.6

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#53

m,p-Xylene

Concen: 2.488 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VU036696.D

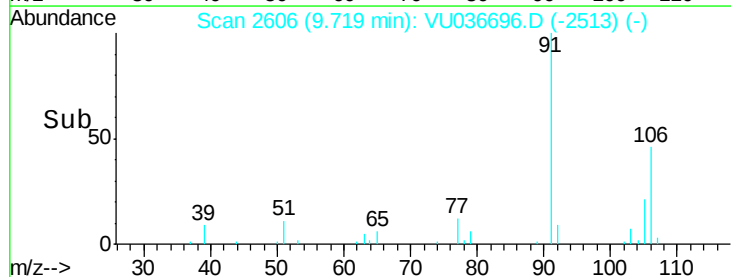
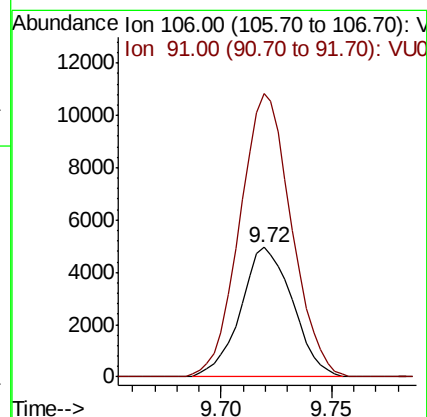
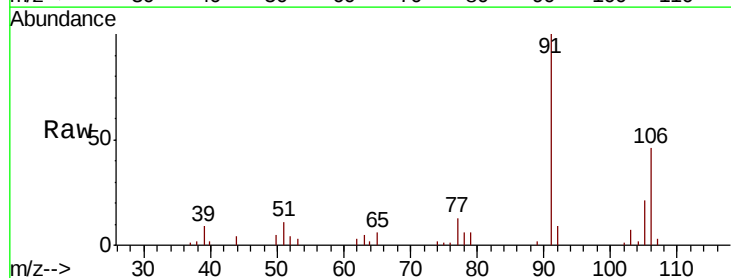
Acq: 07 Feb 2020 12:27

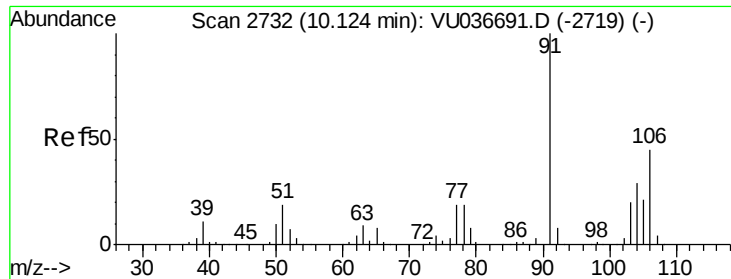
Tgt Ion: 106 Resp: 8100

Ion Ratio Lower Upper

106 100

91 219.0 145.9 270.9





#54

o-xylene

Concen: 2.392 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tot Ion:106 Resp: 7714

Ion Ratio Lower Upper

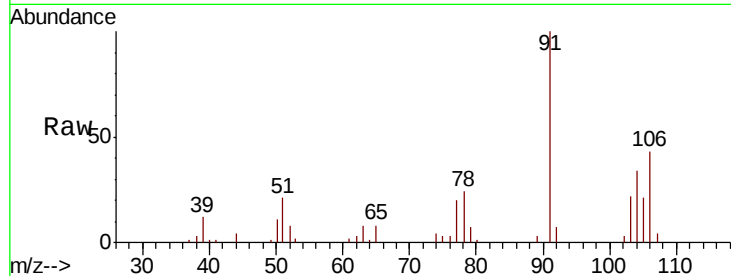
106 100

91 230.8 156.0 289.6

Manual Integrations
APPROVED

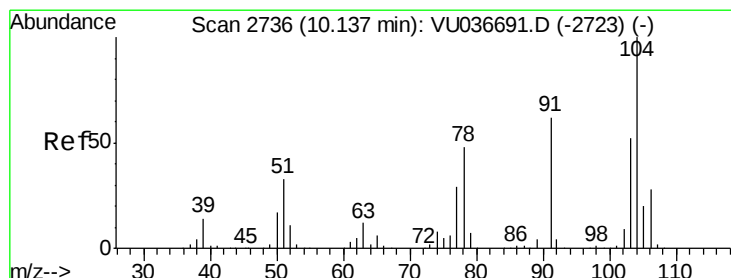
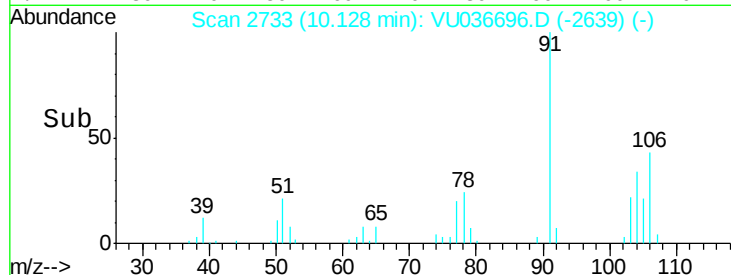
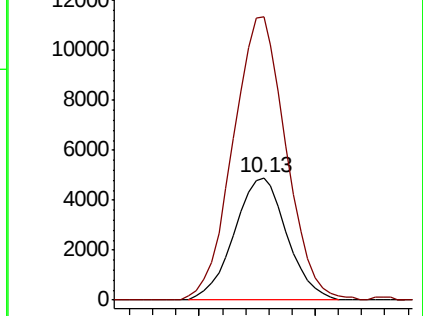
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.250 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036696.D

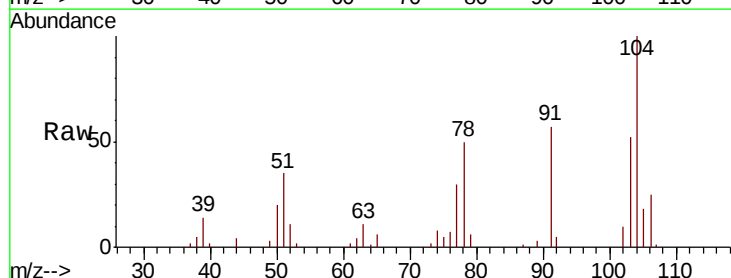
Acq: 07 Feb 2020 12:27

Tgt Ion:104 Resp: 12091

Ion Ratio Lower Upper

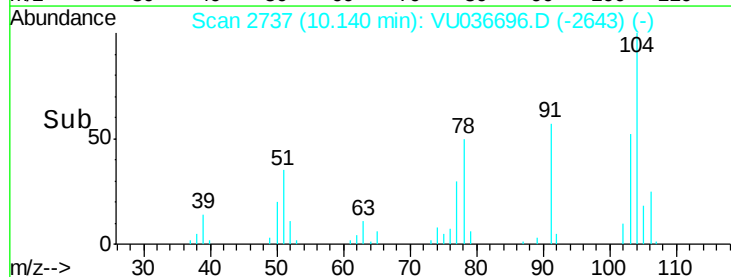
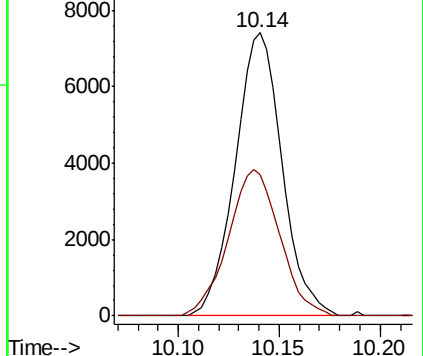
104 100

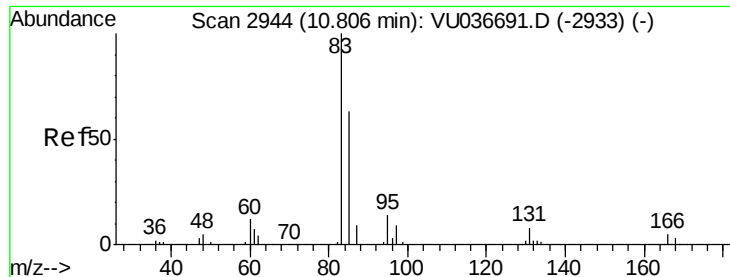
78 49.9 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.695 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

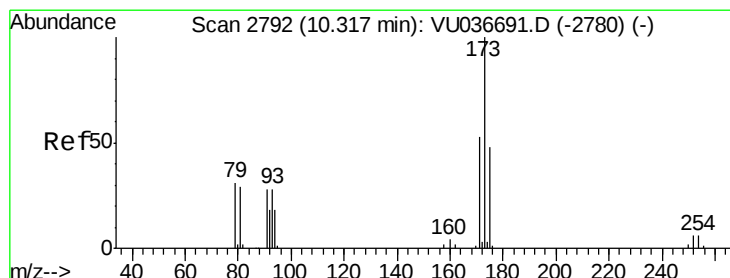
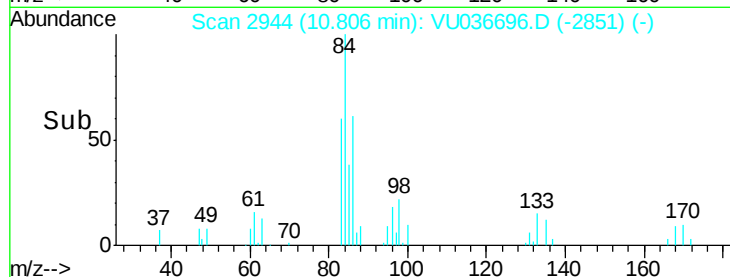
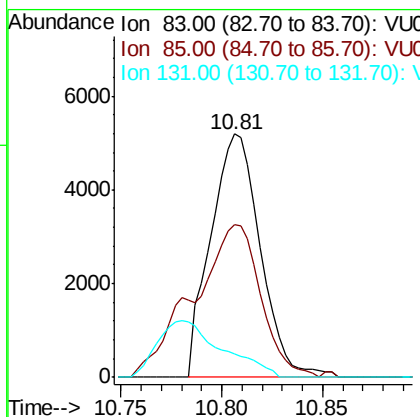
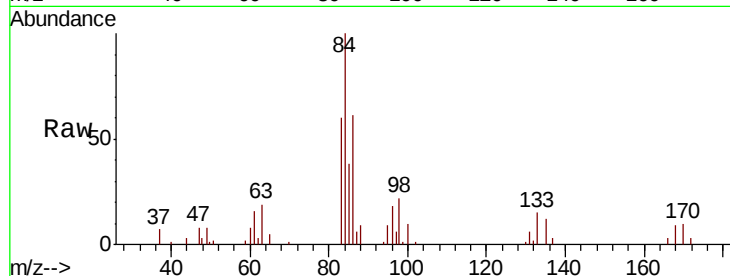
ClientSampleId :

MDL03

Tot Ion:	83	Resp:	8879
Ion	Ratio	Lower	Upper
83	100		
85	62.9	44.7	82.9
131	9.6	6.8	10.2

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#59

Bromoform

Concen: 2.449 ug/L

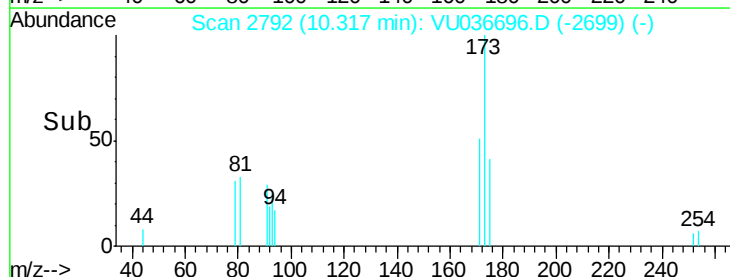
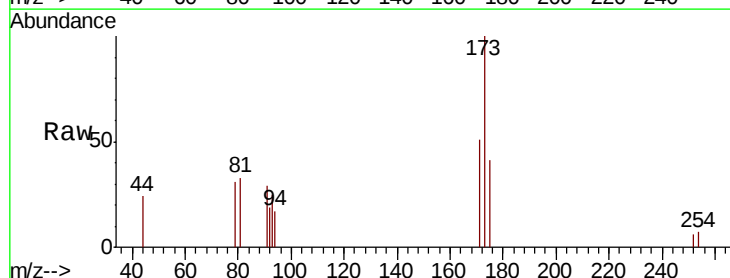
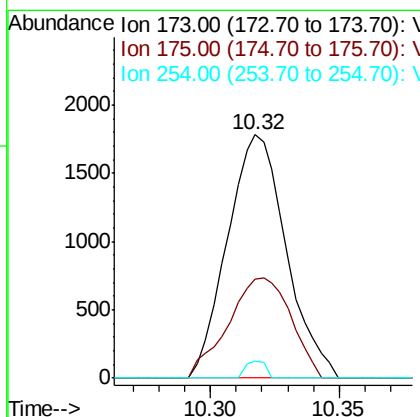
RT: 10.32 min Scan# 2792

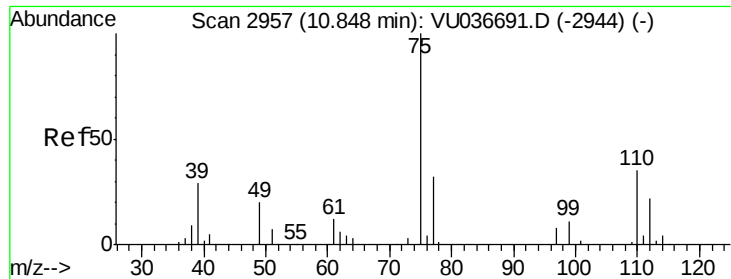
Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Tgt Ion:	173	Resp:	2832
Ion	Ratio	Lower	Upper
173	100		
175	44.1	38.2	57.4
254	2.4	4.8	7.2#





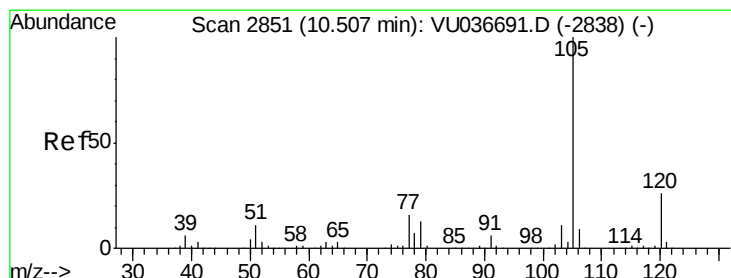
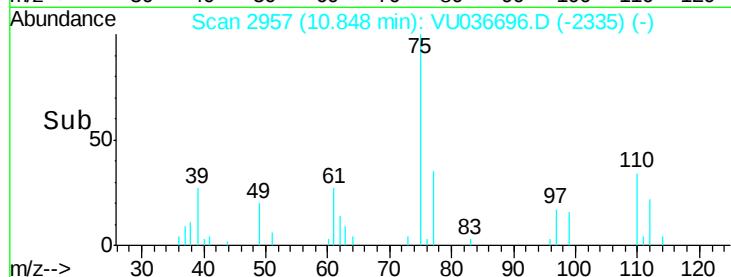
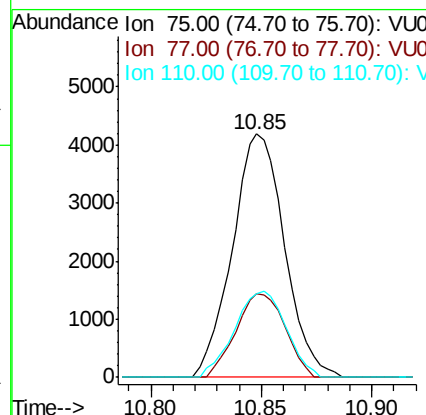
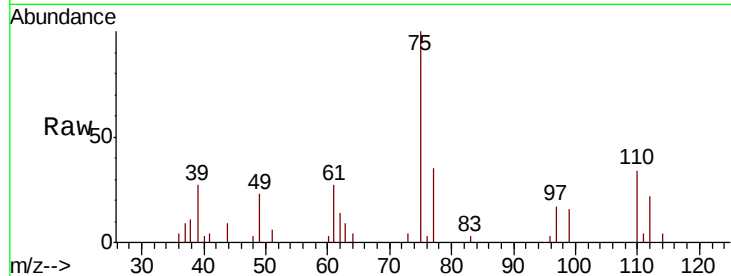
#60
1,2,3-Trichloropropane
Concen: 2.800 ug/L
RT: 10.85 min Scan# 2957
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.1	39.1
110	34.9	26.9	40.3

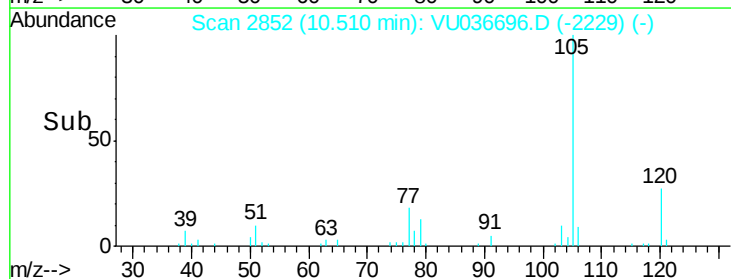
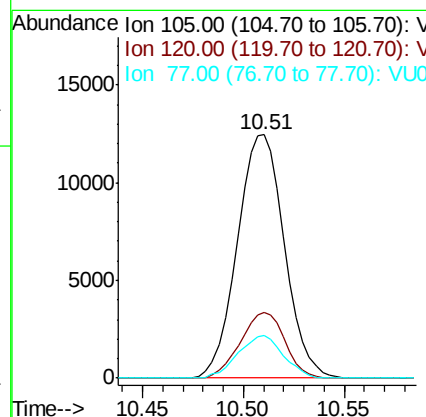
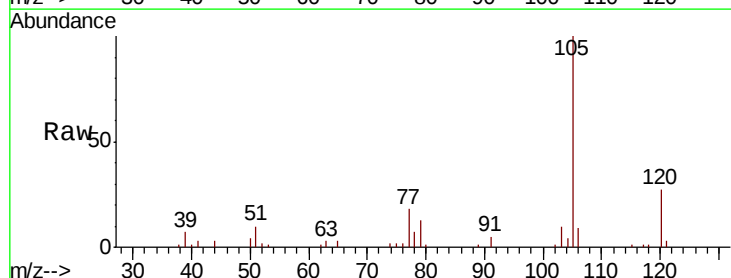
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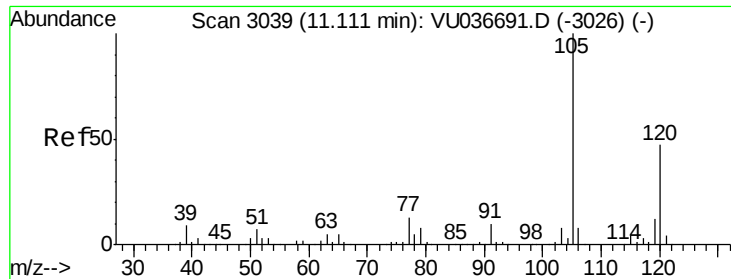
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#61
Isopropylbenzene
Concen: 2.608 ug/L
RT: 10.51 min Scan# 2852
Delta R.T. 0.00 min
Lab File: VU036696.D
Acq: 07 Feb 2020 12:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.2	30.4
77	16.9	13.0	19.6





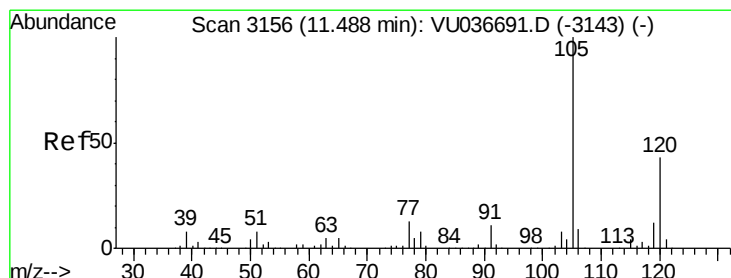
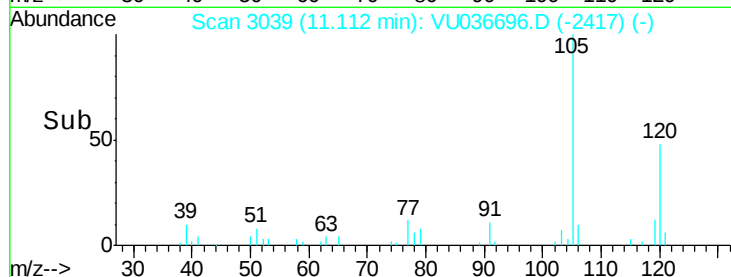
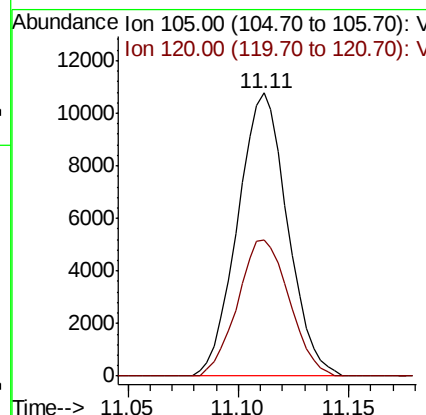
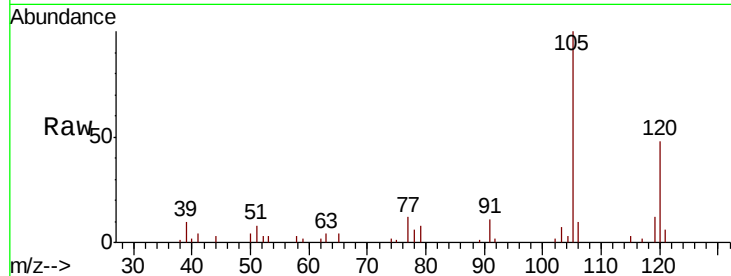
#62
 1,3,5-Trimethylbenzene
 Concen: 2.528 ug/L
 RT: 11.11 min Scan# 3039
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

Tot Ion:105 Resp: 16896
 Ion Ratio Lower Upper
 105 100
 120 49.6 37.1 55.7

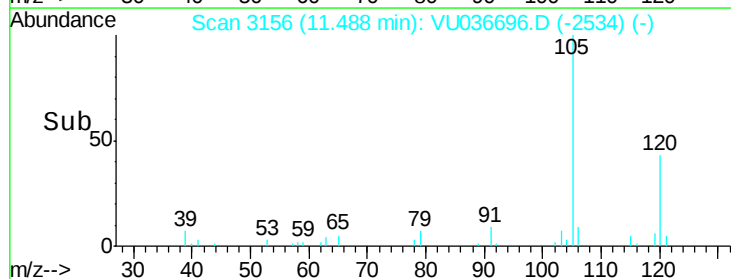
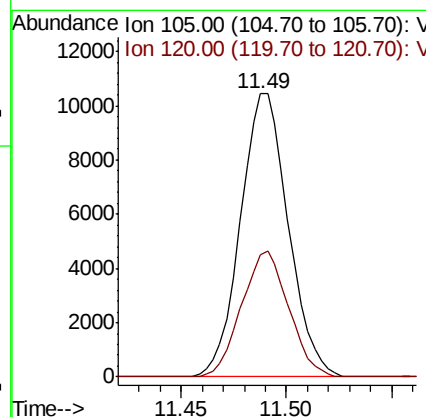
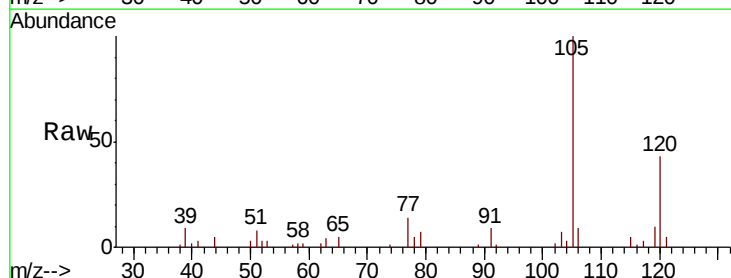
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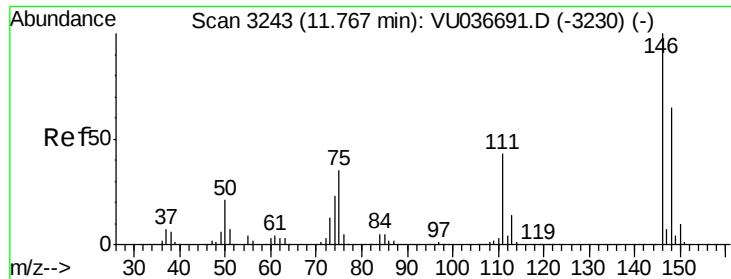
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#63
 1,2,4-Trimethylbenzene
 Concen: 2.464 ug/L
 RT: 11.49 min Scan# 3156
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Tgt Ion:105 Resp: 16440
 Ion Ratio Lower Upper
 105 100
 120 43.7 34.7 52.1





#64

1,3-Dichlorobenzene

Concen: 2.585 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

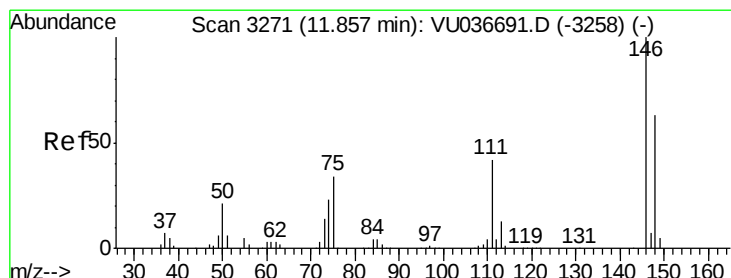
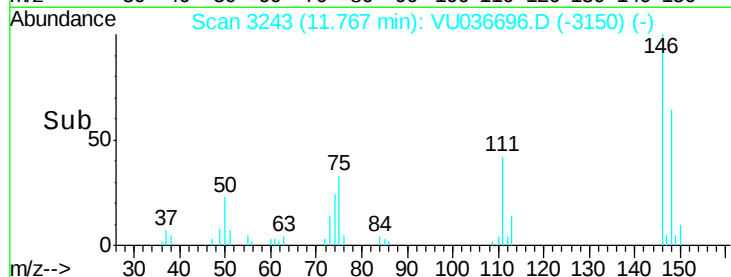
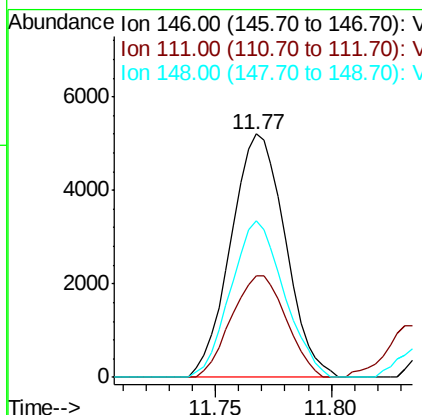
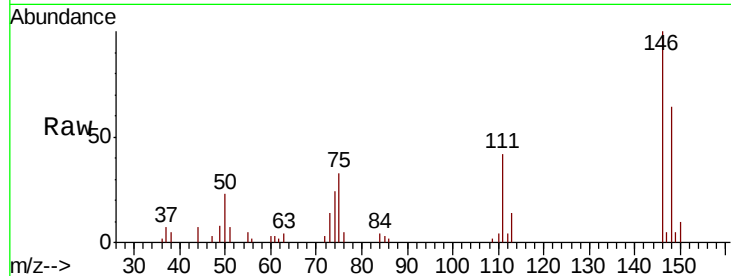
ClientSampled :

MDL03

Tot Ion:	146	Resp:	8474
Ion Ratio	Lower	Upper	
146	100		
111	41.7	30.4	56.4
148	64.4	44.5	82.7

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#65

1,4-Dichlorobenzene

Concen: 2.634 ug/L

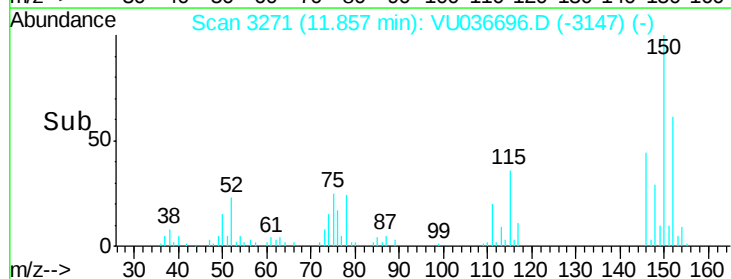
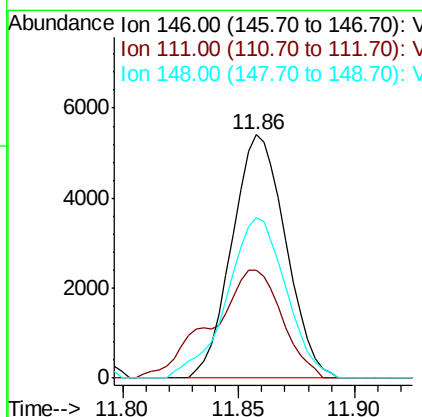
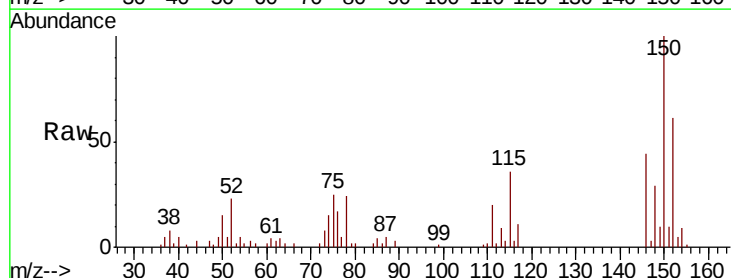
RT: 11.86 min Scan# 3271

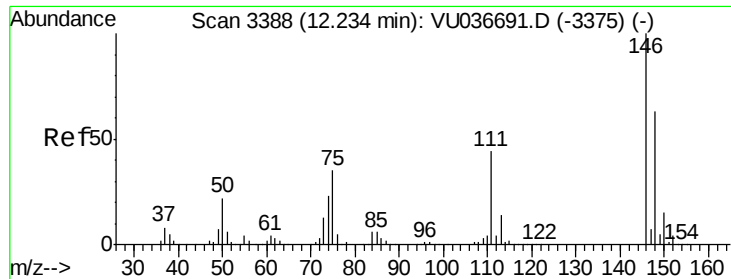
Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Tgt Ion:	146	Resp:	8694
Ion Ratio	Lower	Upper	
146	100		
111	44.5	29.3	54.3
148	66.1	44.8	83.2





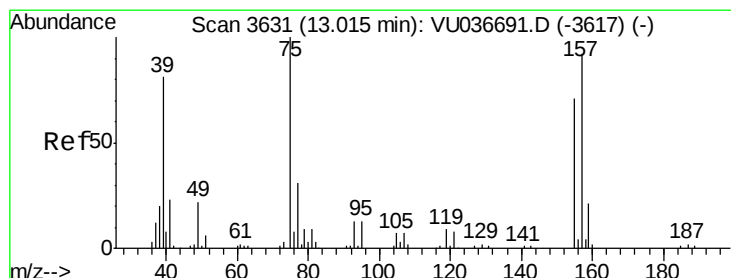
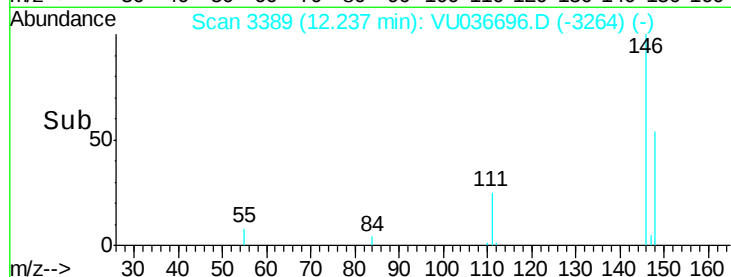
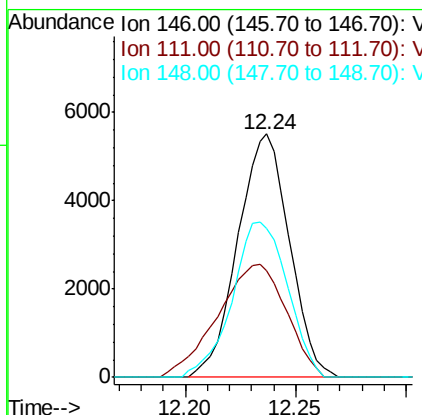
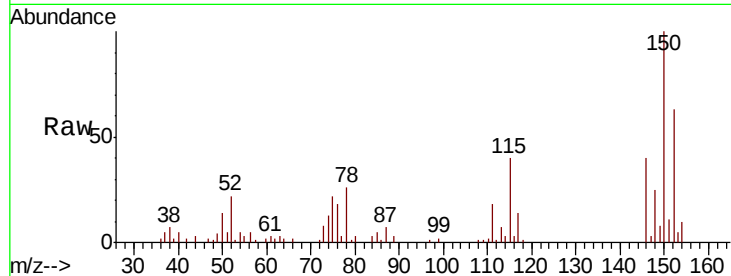
#67
 1,2-Dichlorobenzene
 Concen: 2.701 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	35.4	53.0
148	61.3	50.4	75.6

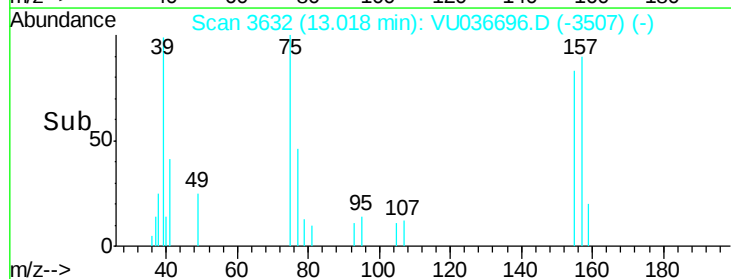
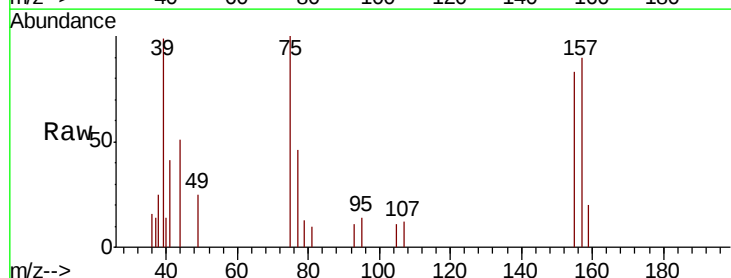
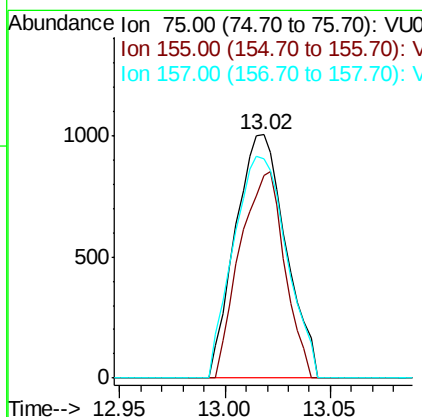
Manual Integrations
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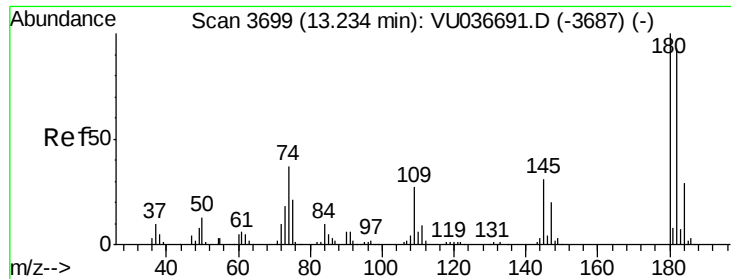
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.372 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.3	58.7	88.1
157	90.0	77.8	116.6





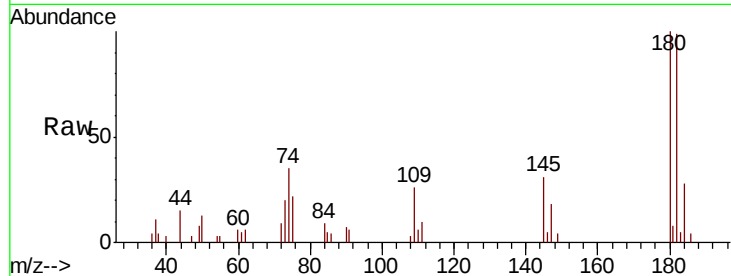
#69
 1,3,5-Trichlorobenzene
 Concen: 2.223 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.2	114.4
184	27.9	23.8	35.6
145	30.9	25.0	37.6

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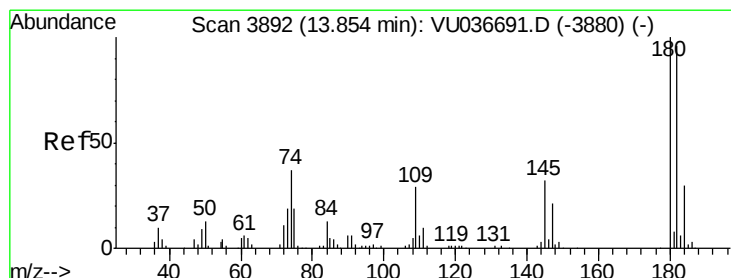
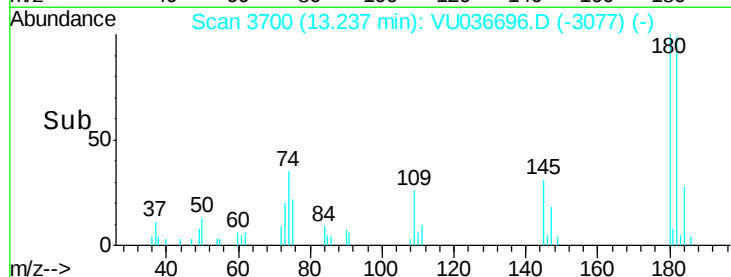
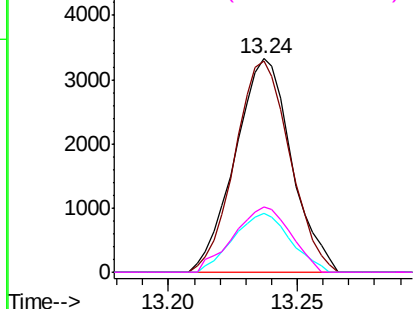
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 1.836 ug/L
 RT: 13.85 min Scan# 3892
 Delta R.T. 0.00 min
 Lab File: VU036696.D
 Acq: 07 Feb 2020 12:27

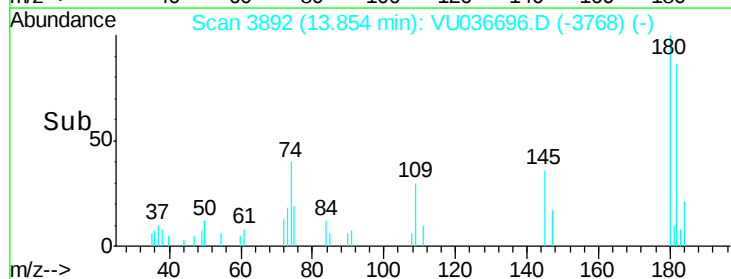
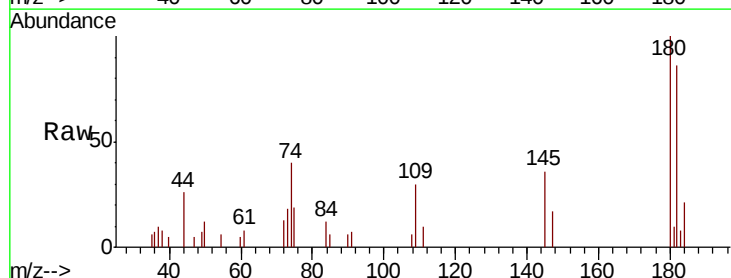
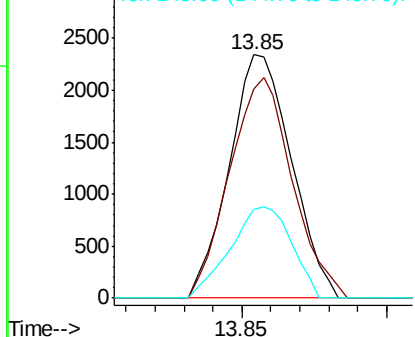
Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.4	76.1	114.1
145	36.9	25.7	38.5

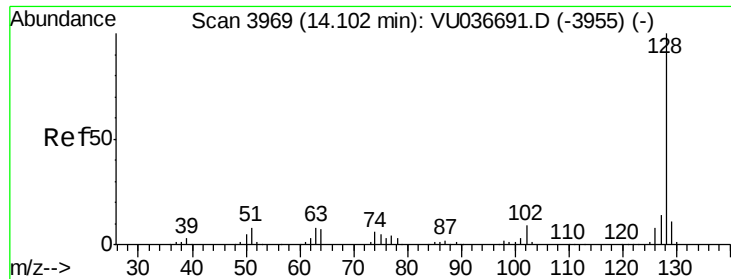
Abundance

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





#71

Naphthalene

Concen: 1.612 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Instrument :

MSVOA_U

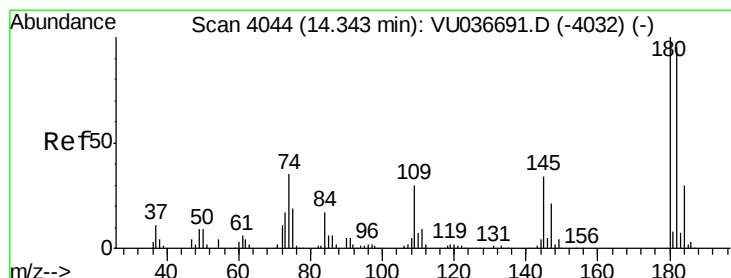
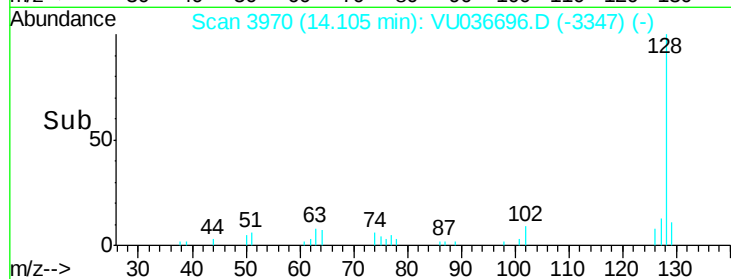
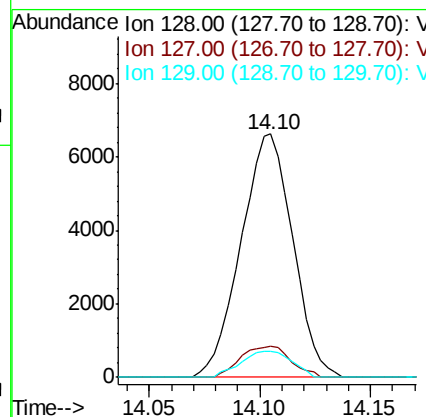
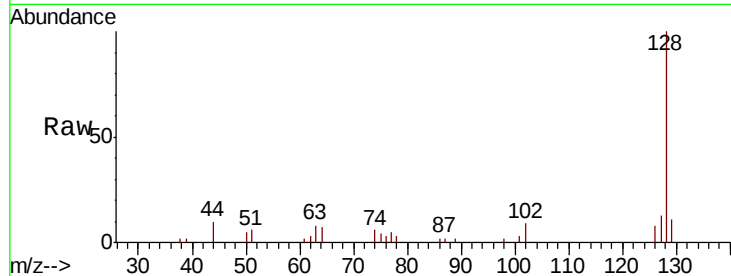
ClientSampled :

MDL03

Tot Ion:	128	Resp:	10769
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.6	16.0
129	10.5	8.5	12.7

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#72

1,2,3-Trichlorobenzene

Concen: 1.828 ug/L

RT: 14.34 min Scan# 4044

Delta R.T. 0.00 min

Lab File: VU036696.D

Acq: 07 Feb 2020 12:27

Tgt Ion:	180	Resp:	3452
Ion	Ratio	Lower	Upper
180	100		
182	100.6	76.8	115.2
145	39.7	27.5	41.3

