

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021120\
 Data File : VU036721.D
 Acq On : 11 Feb 2020 13:32
 Operator : JC/MD
 Sample : MDL07
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 2/12/2020 3:10:57 PM

Quant Time: Feb 12 02:48:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 12 02:32:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	258281	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	240984	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	101880	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	59044	34.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	68.56%
7) Chloroethane-d5	1.93	69	61608	38.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	77.14%
11) 1,1-Dichloroethene-d2	2.59	63	91363	28.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	56.18%#
21) 2-Butanone-d5	4.68	46	138874	94.50	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.50%
24) Chloroform-d	5.11	84	128872	41.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.68%
26) 1,2-Dichloroethane-d4	5.75	65	95249	44.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.34%
32) Benzene-d6	5.77	84	275897	43.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.10%
36) 1,2-Dichloropropane-d6	6.73	67	96426	45.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.70%
41) Toluene-d8	7.93	98	245539	42.32	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.64%
43) trans-1,3-Dichloropropene-	8.21	79	43301	43.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.00%
47) 2-Hexanone-d5	8.67	63	109471	91.20	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.20%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	143577	46.32	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.64%
66) 1,2-Dichlorobenzene-d4	12.21	152	85659	46.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.56%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	4085	2.289 ug/L	99
3) Chloromethane	1.54	50	5213	2.465 ug/L	98
5) Vinyl chloride	1.62	62	6210	2.727 ug/L #	55
6) Bromomethane	1.87	94	3242	2.271 ug/L	96
8) Chloroethane	1.95	64	3621	2.506 ug/L	98
9) Trichlorofluoromethane	2.16	101	6467	2.390 ug/L	93
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	5117	3.157 ug/L #	84
12) 1,1-Dichloroethene	2.61	96	4492	2.847 ug/L #	1
13) Acetone	2.66	43	7976	5.109 ug/L	99
14) Carbon disulfide	2.82	76	11888	2.521 ug/L	97
15) Methyl Acetate	2.99	43	5526	2.449 ug/L	98
16) Methylene chloride	3.08	84	5155	2.647 ug/L	94
17) trans-1,2-Dichloroethene	3.39	96	4292	2.557 ug/L	94
18) Methyl tert-butyl Ether	3.41	73	13897	2.385 ug/L	98
19) 1,1-Dichloroethane	3.92	63	8196	2.450 ug/L	97
20) cis-1,2-Dichloroethene	4.72	96	4643	2.427 ug/L	99
22) 2-Butanone	4.76	43	8614	4.649 ug/L	95

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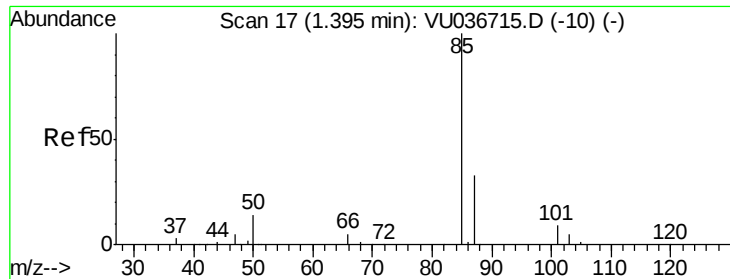
Manual Integrations
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	2189	2.442	ug/L	92
25) Chloroform	5.14	83	15486	4.761	ug/L	98
27) 1,2-Dichloroethane	5.84	62	7153	2.615	ug/L #	91
29) Cyclohexane	5.43	56	7195	2.324	ug/L	98
30) 1,1,1-Trichloroethane	5.36	97	6239	2.437	ug/L	97
31) Carbon tetrachloride	5.57	117	5042m	2.433	ug/L	
33) Benzene	5.82	78	19106	2.621	ug/L	100
34) Trichloroethene	6.58	95	4409	2.446	ug/L	97
35) Methylcyclohexane	6.80	83	7553	2.379	ug/L	98
37) 1,2-Dichloropropane	6.83	63	5158	2.624	ug/L #	92
38) Bromodichloromethane	7.14	83	5825	2.439	ug/L	97
39) cis-1,3-Dichloropropene	7.64	75	6973	2.220	ug/L	95
40) 4-Methyl-2-pentanone	7.83	43	14275	4.597	ug/L	97
42) Toluene	8.00	91	20155	2.559	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	6598	2.405	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	4454	2.484	ug/L	98
46) Tetrachloroethene	8.58	164	3486	2.756	ug/L	97
48) 2-Hexanone	8.72	43	14417	5.691	ug/L	97
49) Dibromochloromethane	8.84	129	4152	2.367	ug/L	97
50) 1,2-Dibromoethane	8.95	107	4588	2.436	ug/L #	98
51) Chlorobenzene	9.47	112	11865	2.502	ug/L	98
52) Ethylbenzene	9.60	91	20612	2.382	ug/L	98
53) m,p-Xylene	9.72	106	7504	2.350	ug/L	93
54) o-xylene	10.13	106	7260	2.296	ug/L	89
55) Styrene	10.14	104	11498	2.181	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.81	83	8137	2.518	ug/L #	97
59) Bromoform	10.32	173	2635	2.341	ug/L #	94
60) 1,2,3-Trichloropropane	10.85	75	6409	2.674	ug/L	98
61) Isopropylbenzene	10.51	105	19581	2.581	ug/L	99
62) 1,3,5-Trimethylbenzene	11.11	105	15739	2.420	ug/L	100
63) 1,2,4-Trimethylbenzene	11.49	105	15046	2.317	ug/L	99
64) 1,3-Dichlorobenzene	11.77	146	7920	2.483	ug/L	97
65) 1,4-Dichlorobenzene	11.86	146	8251	2.569	ug/L	97
67) 1,2-Dichlorobenzene	12.23	146	8558	2.649	ug/L	96
68) 1,2-Dibromo-3-chloropropan	13.01	75	1521	2.221	ug/L	87
69) 1,3,5-Trichlorobenzene	13.24	180	4985	2.253	ug/L	96
70) 1,2,4-trichlorobenzene	13.86	180	2975	1.613	ug/L	97
71) Naphthalene	14.10	128	8786	1.351	ug/L	98
72) 1,2,3-Trichlorobenzene	14.34	180	2891	1.573	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 2.289 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 85 Resp: 4085

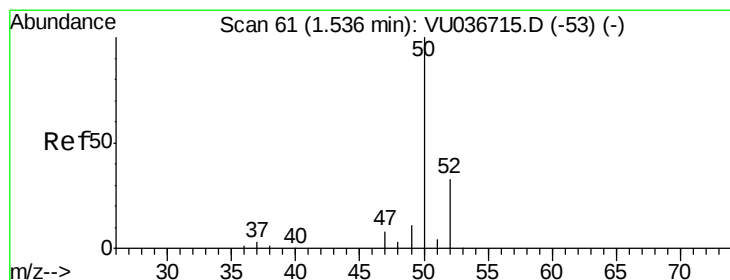
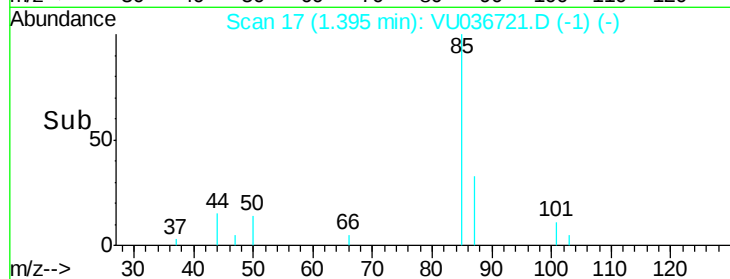
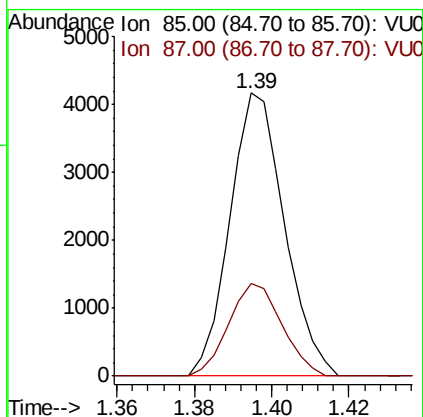
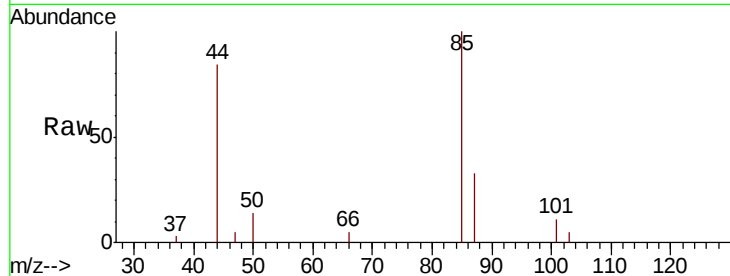
Ion Ratio Lower Upper

85 100

87 31.9 25.9 38.9

Manual Integrations
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#3

Chloromethane

Concen: 2.465 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036721.D

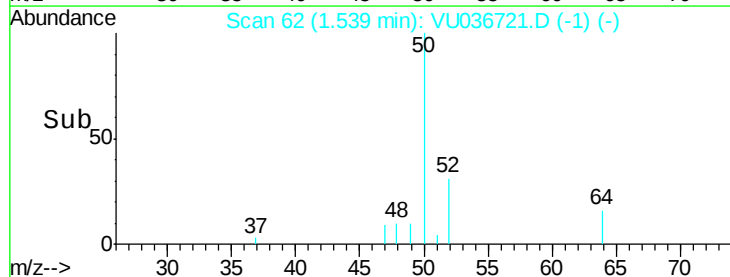
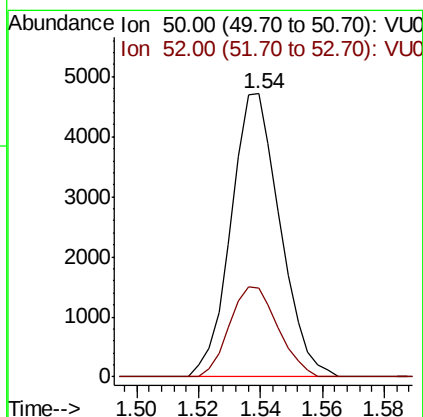
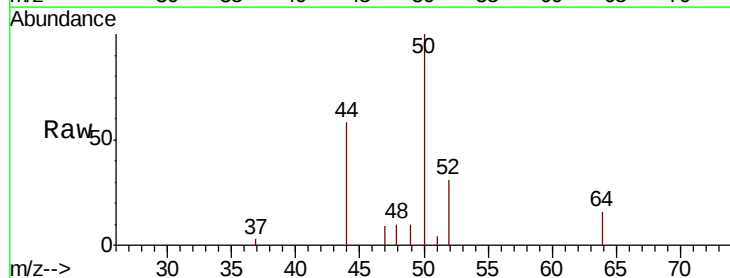
Acq: 11 Feb 2020 13:32

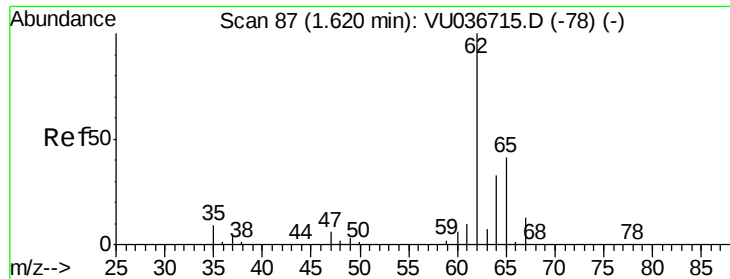
Tgt Ion: 50 Resp: 5213

Ion Ratio Lower Upper

50 100

52 31.4 22.9 42.5





#5

Vinyl chloride

Concen: 2.727 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 62 Resp: 6210

Ion Ratio Lower Upper

62 100

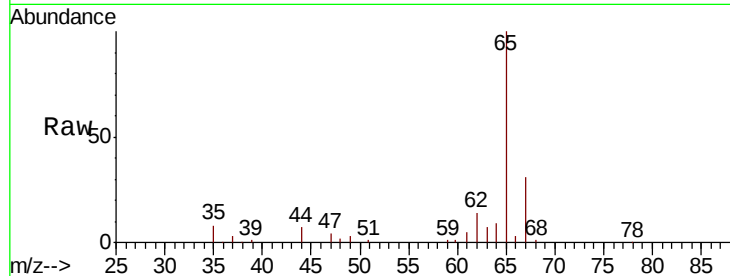
64 58.8 23.4 43.6#

Manual Integrations

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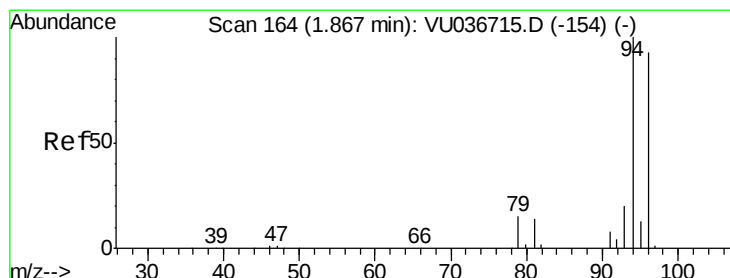
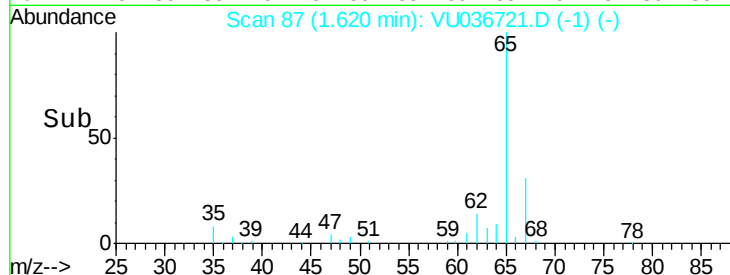
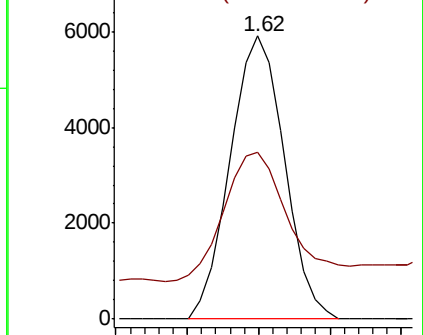
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Abundance Ion 62.00 (61.70 to 62.70): VU036721.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU036721.D (-1) (-)



#6

Bromomethane

Concen: 2.271 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU036721.D

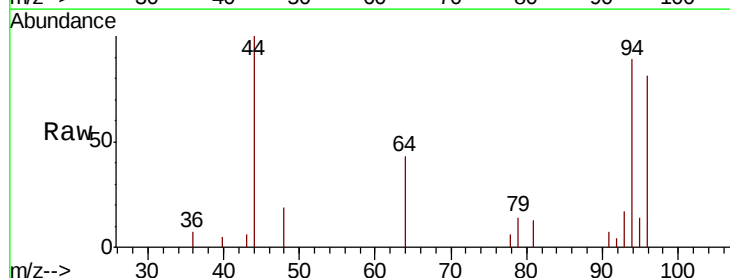
Acq: 11 Feb 2020 13:32

Tgt Ion: 94 Resp: 3242

Ion Ratio Lower Upper

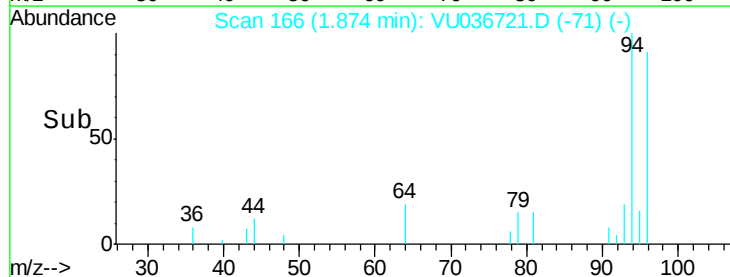
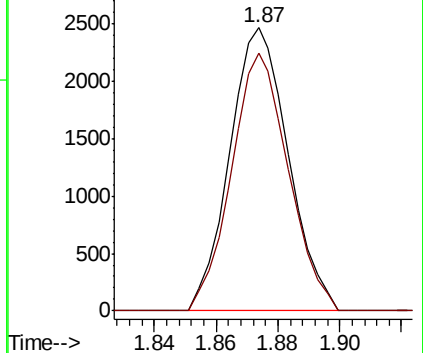
94 100

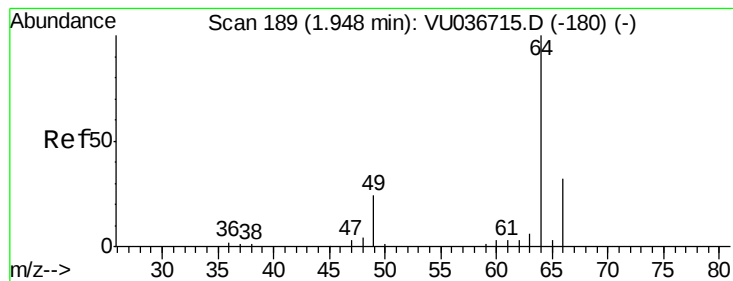
96 91.3 66.3 123.1



Abundance Ion 94.00 (93.70 to 94.70): VU036721.D (-71) (-)

Ion 96.00 (95.70 to 96.70): VU036721.D (-71) (-)





#8

Chloroethane

Concen: 2.506 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 64 Resp: 3621

Ion Ratio Lower Upper

64 100

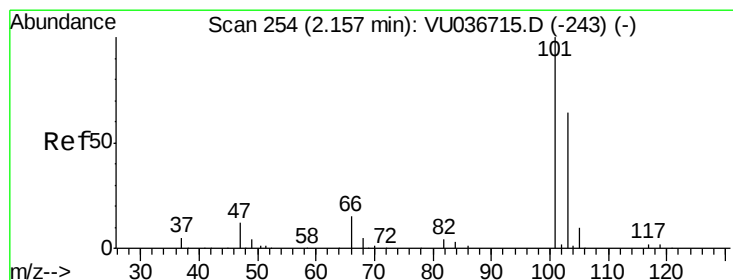
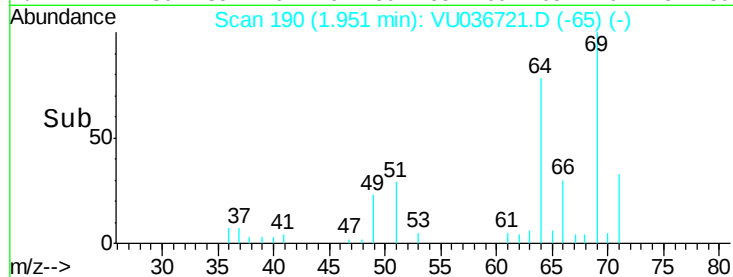
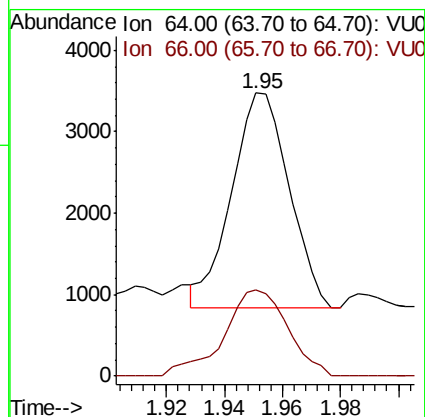
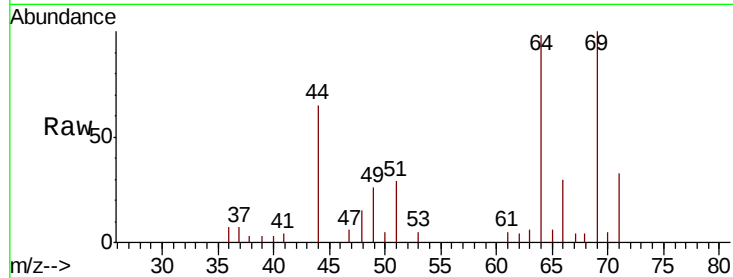
66 30.4 22.1 41.1

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.390 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU036721.D

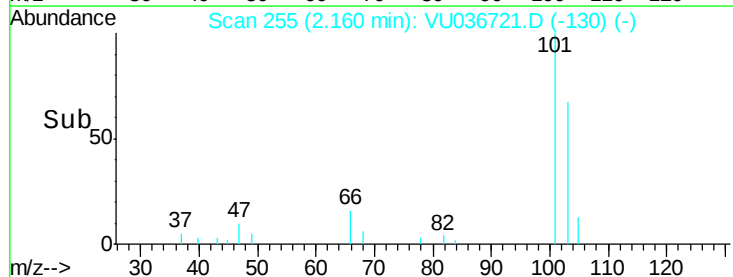
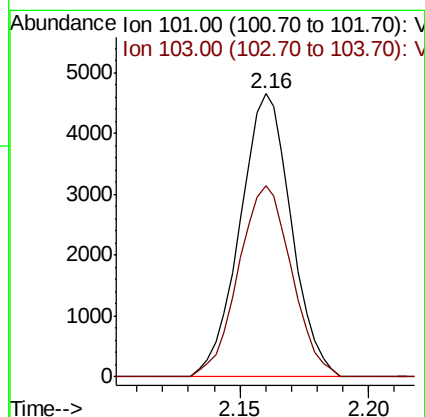
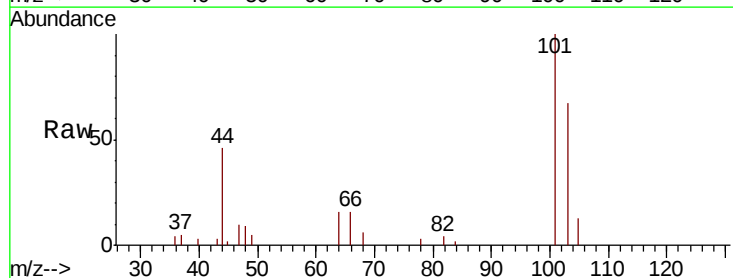
Acq: 11 Feb 2020 13:32

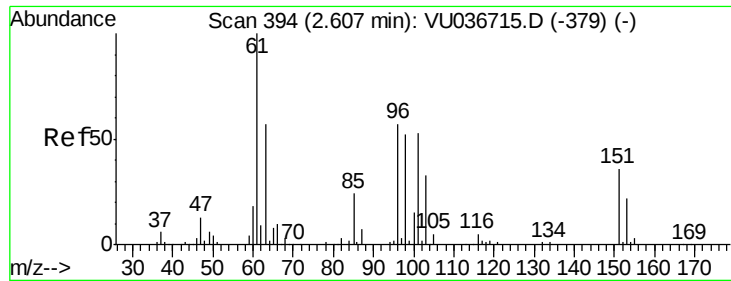
Tgt Ion: 101 Resp: 6467

Ion Ratio Lower Upper

101 100

103 69.7 51.6 77.4





#10

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

Concen: 3.157 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

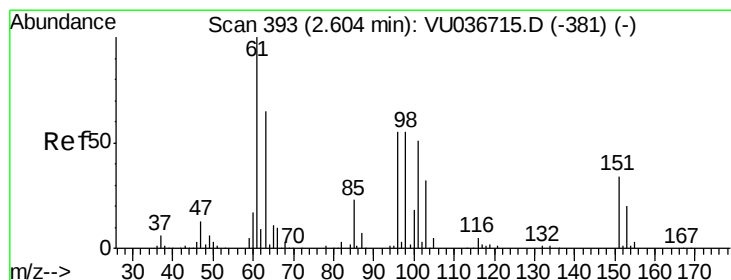
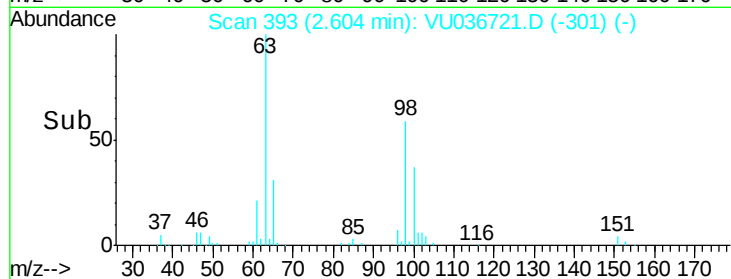
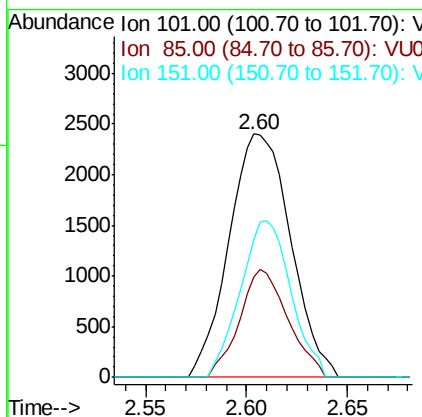
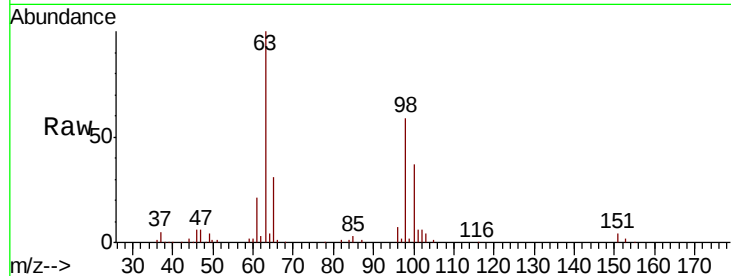
ClientSampleId :

MDL07

Tot Ion:	101	Resp:	5117
Ion Ratio	Lower	Upper	
101	100		
85	35.0	36.5	54.7#
151	52.9	52.6	78.8

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#12

1,1-Dichloroethene

Concen: 2.847 ug/L

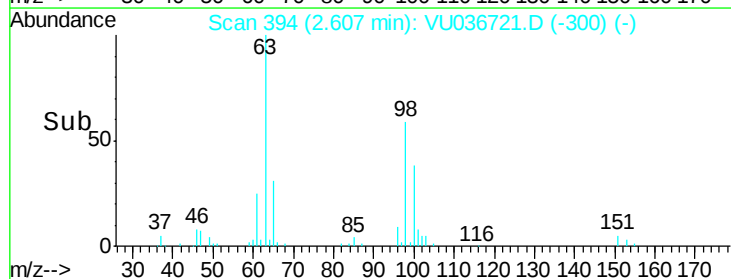
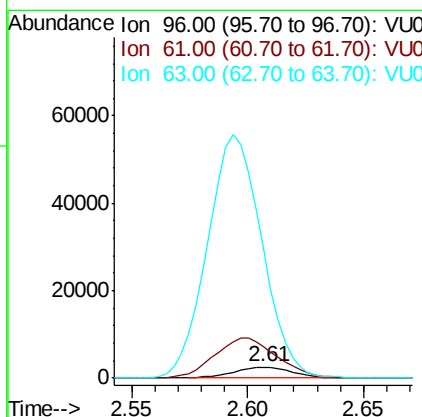
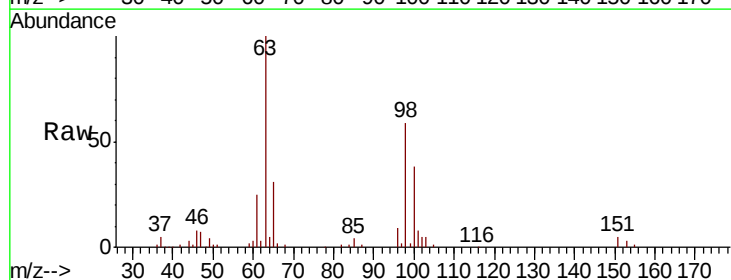
RT: 2.61 min Scan# 394

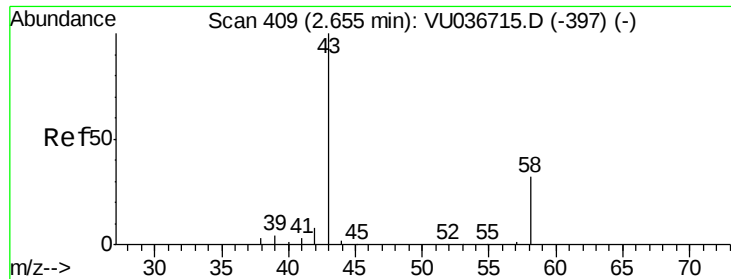
Delta R.T. 0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Tgt Ion:	96	Resp:	4492
Ion Ratio	Lower	Upper	
96	100		
61	278.0	124.4	231.0#
63	1128.6	83.4	155.0#





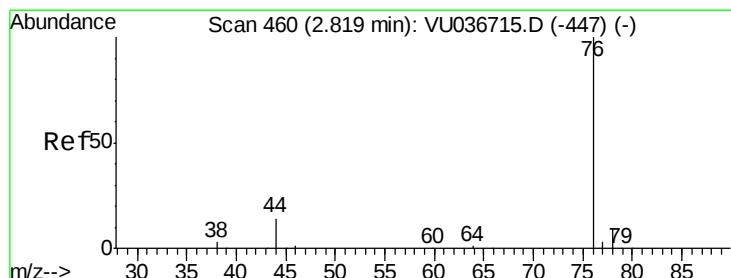
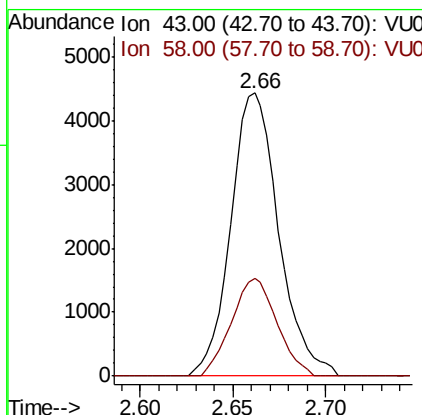
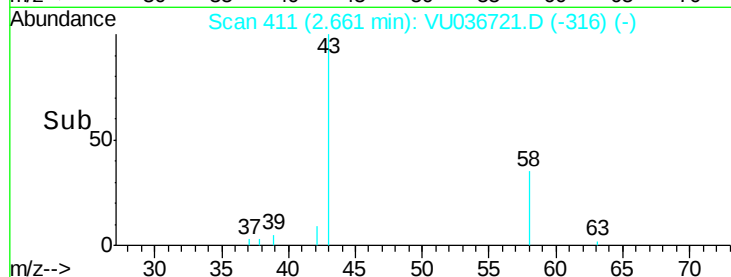
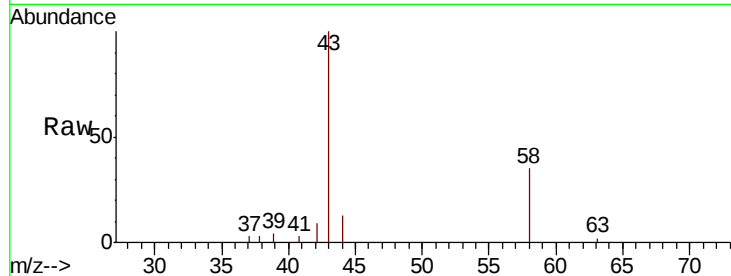
#13
Acetone
Concen: 5.109 ug/L
RT: 2.66 min Scan# 411
Delta R.T. 0.01 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Instrument :
MSVOA_U
ClientSampled :
MDL07

Tot Ion: 43 Resp: 7976
Ion Ratio Lower Upper
43 100
58 32.6 0.0 64.0

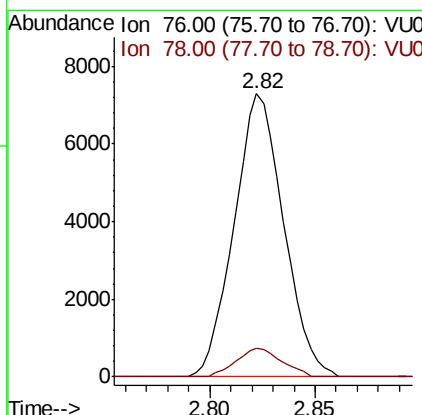
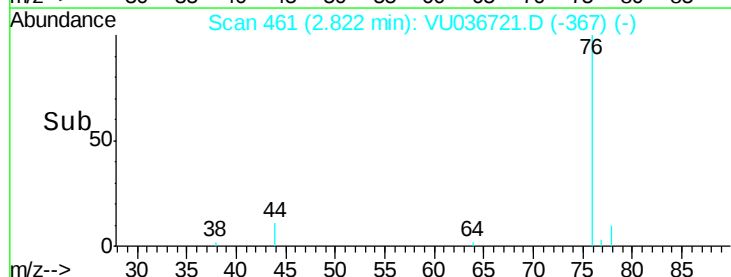
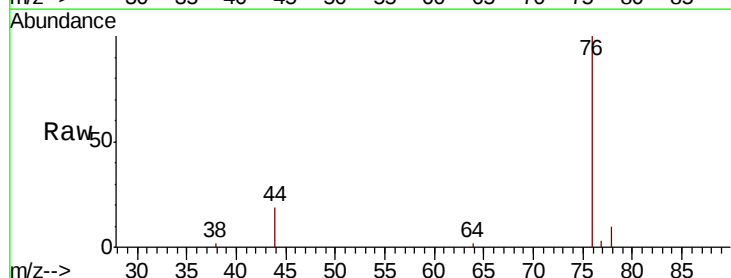
Manual Integrations
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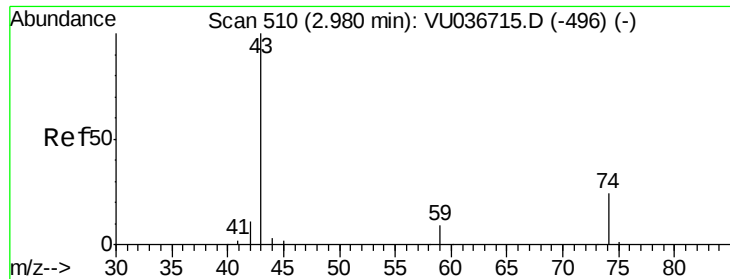
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#14
Carbon disulfide
Concen: 2.521 ug/L
RT: 2.82 min Scan# 461
Delta R.T. 0.00 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Tgt Ion: 76 Resp: 11888
Ion Ratio Lower Upper
76 100
78 10.0 7.3 10.9





#15

Methvl Acetate

Concen: 2.449 ug/L

RT: 2.99 min Scan# 513

Delta R.T. 0.01 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 43 Resp: 5526

Ion Ratio Lower Upper

43 100

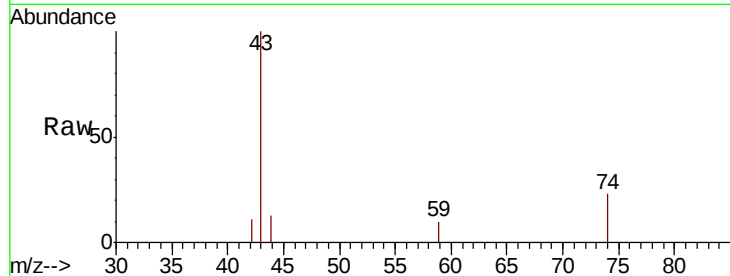
74 22.5 18.7 28.1

Manual Integrations

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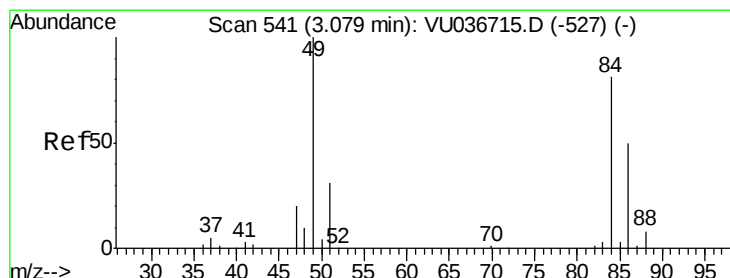
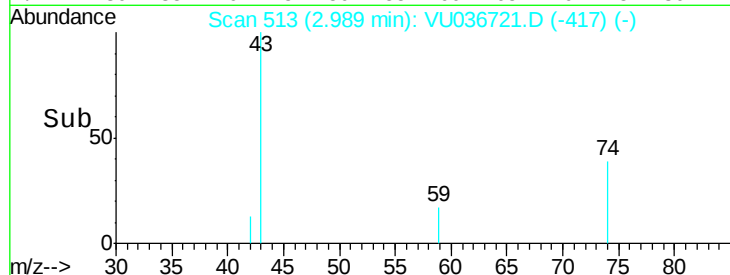
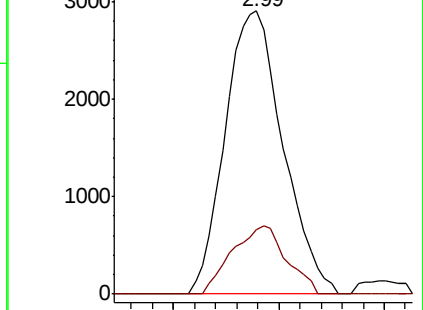
MMDadoda

2/12/2020 3:10:57 PM



Abundance Ion 43.00 (42.70 to 43.70): VU036721.D (-417) (-)

Ion 74.00 (73.70 to 74.70): VU036721.D (-417) (-)



#16

Methylene chloride

Concen: 2.647 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

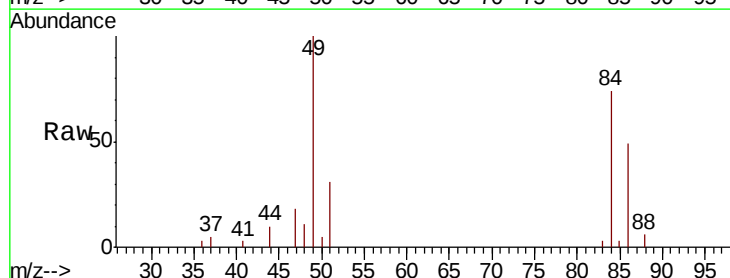
Tgt Ion: 84 Resp: 5155

Ion Ratio Lower Upper

84 100

86 66.6 44.4 82.5

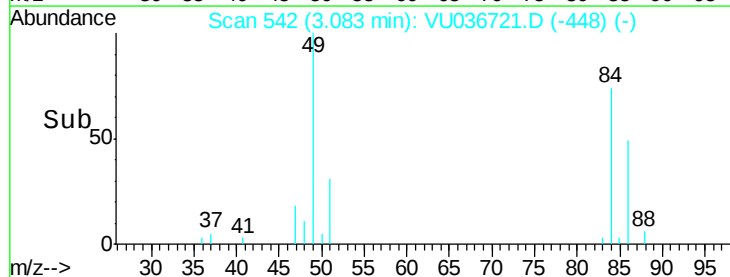
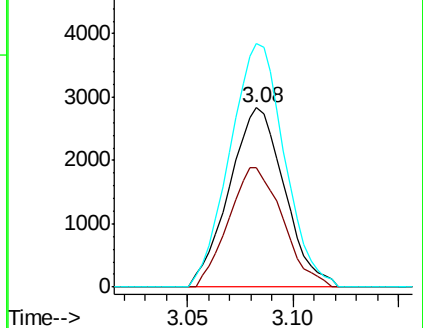
49 135.9 89.2 165.8

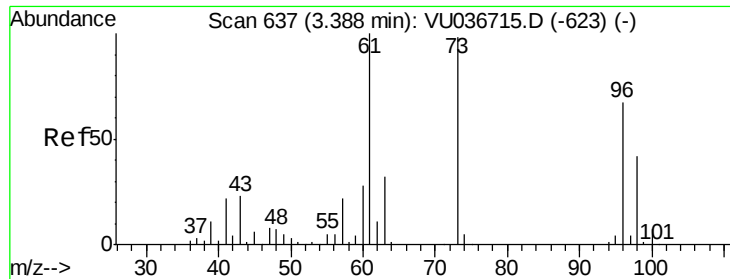


Abundance Ion 84.00 (83.70 to 84.70): VU036721.D (-448) (-)

Ion 86.00 (85.70 to 86.70): VU036721.D (-448) (-)

Ion 49.00 (48.70 to 49.70): VU036721.D (-448) (-)





#17

trans-1,2-Dichloroethene

Concen: 2.557 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.01 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 96 Resp: 4292

Ion Ratio Lower Upper

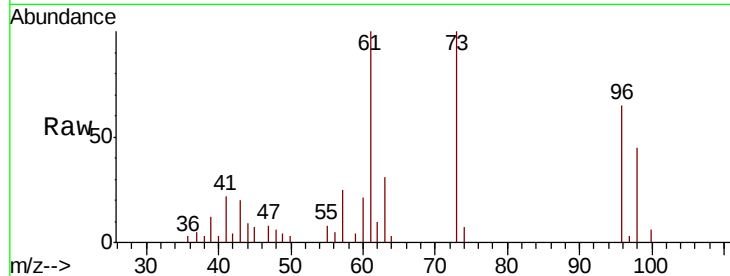
96 100

61 154.3 103.4 192.0

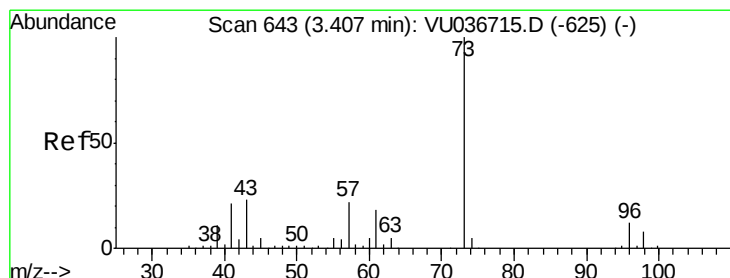
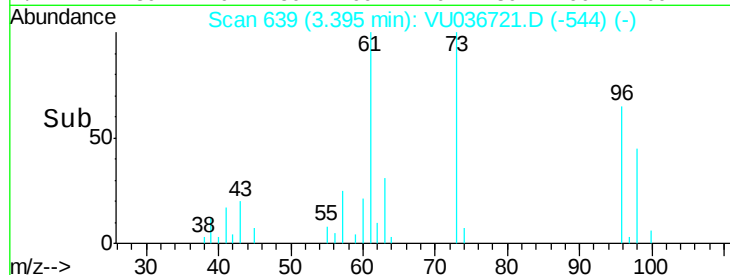
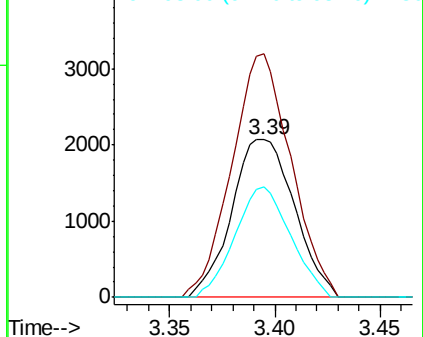
98 70.2 45.4 84.2

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



#18

Methyl tert-butyl Ether

Concen: 2.385 ug/L

RT: 3.41 min Scan# 645

Delta R.T. 0.01 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

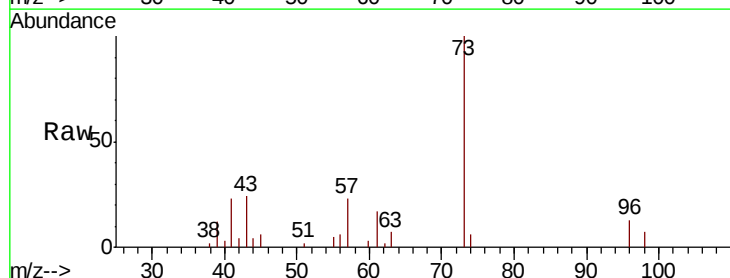
Tgt Ion: 73 Resp: 13897

Ion Ratio Lower Upper

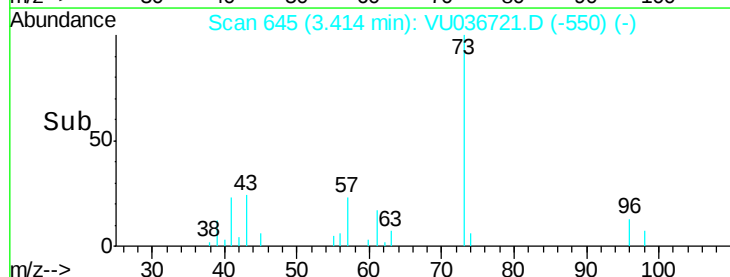
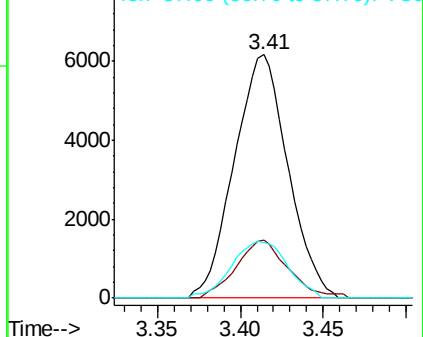
73 100

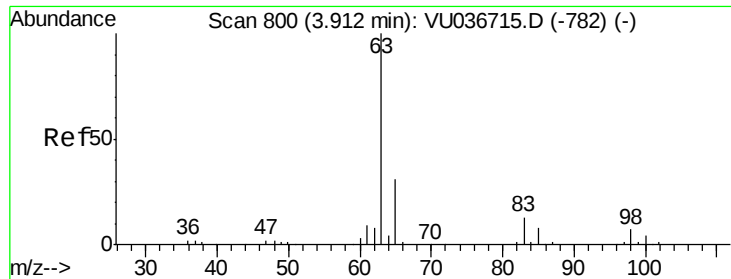
43 23.0 18.6 28.0

57 24.4 18.3 27.5



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





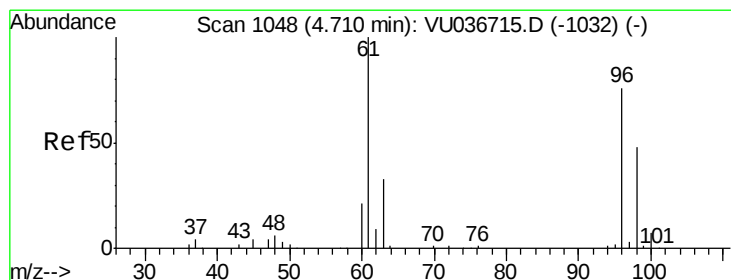
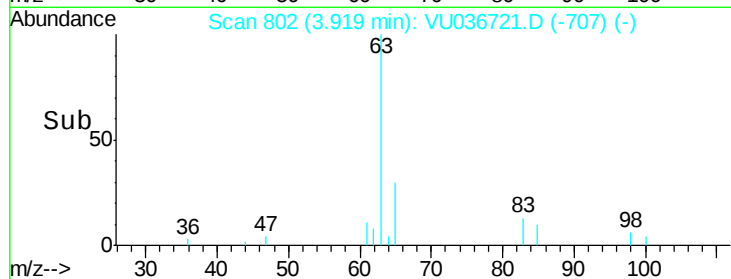
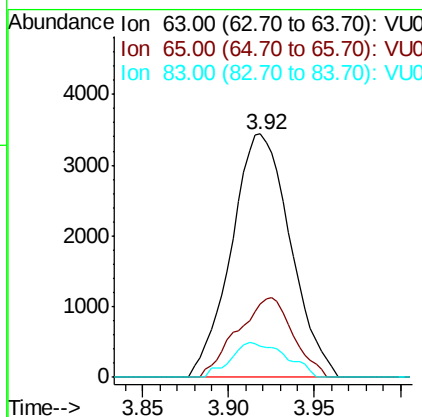
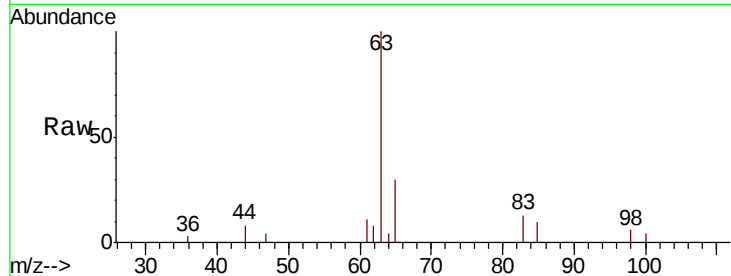
#19
 1,1-Dichloroethane
 Concen: 2.450 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.01 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.0	22.0	40.8
83	12.9	10.1	18.7

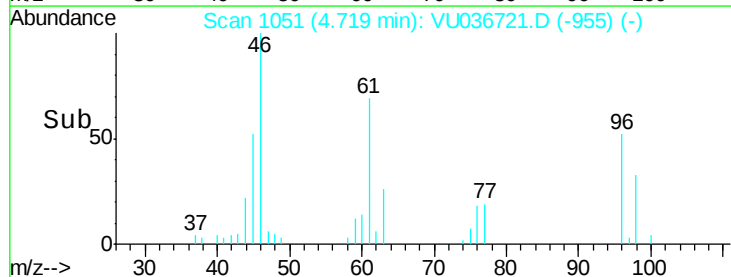
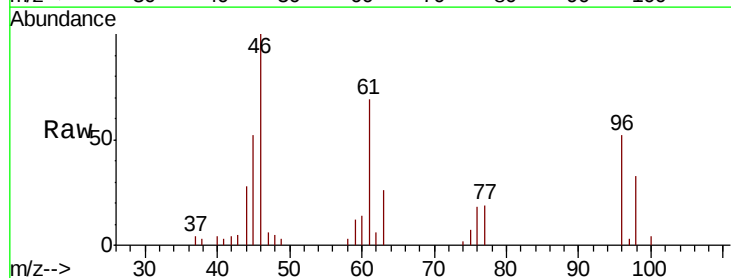
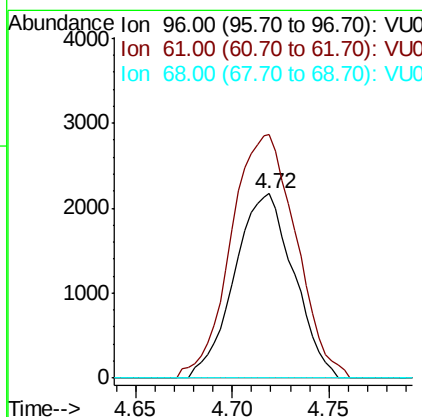
Manual Integrations
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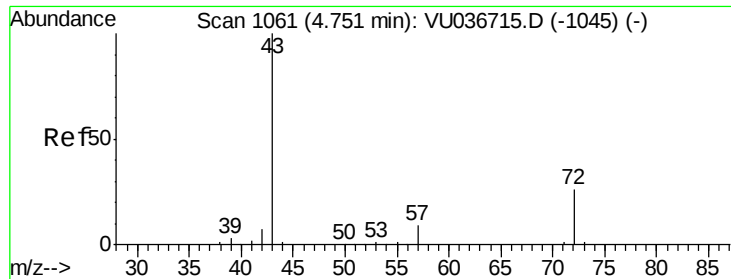
MMDadoda
 2/12/2020 3:10:57 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.427 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. 0.01 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	132.2	93.3	173.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.649 ug/L

RT: 4.76 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 43 Resp: 8614

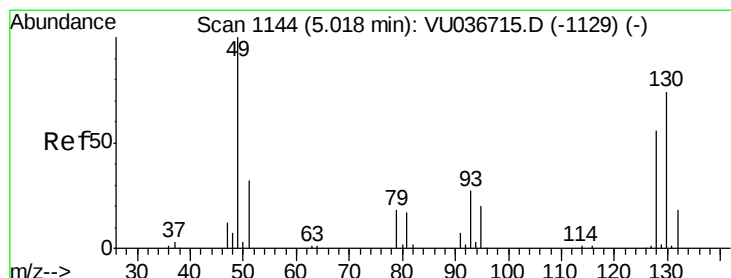
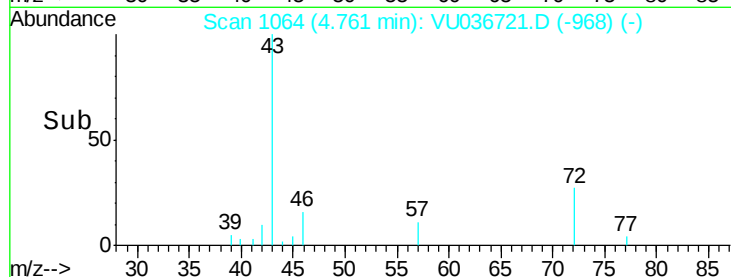
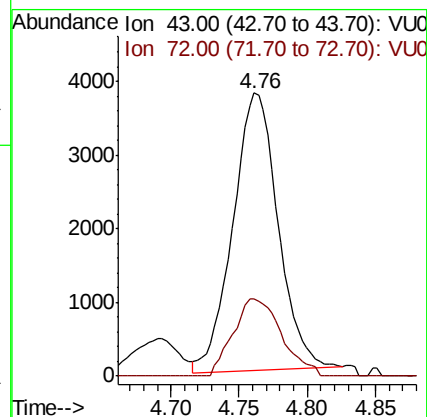
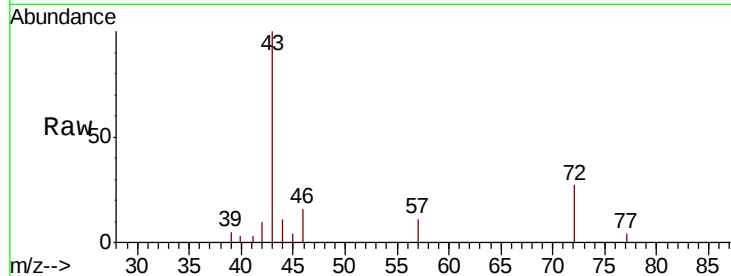
Ion Ratio Lower Upper

43 100

72 30.0 13.6 40.7

Manual Integrations
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#23

Bromochloromethane

Concen: 2.442 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Tgt Ion: 128 Resp: 2189

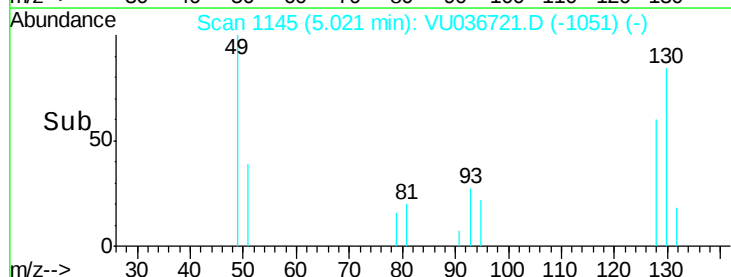
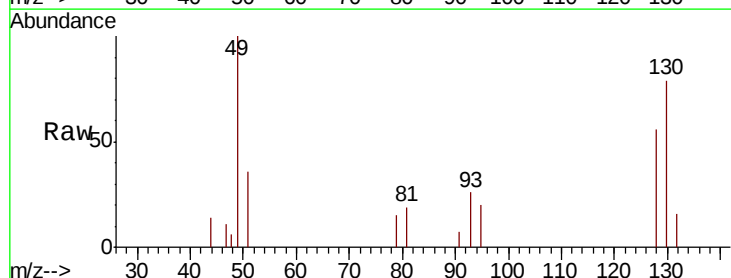
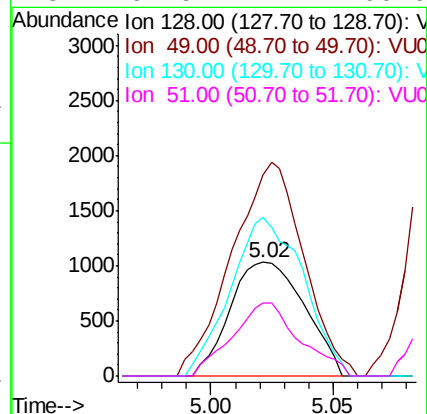
Ion Ratio Lower Upper

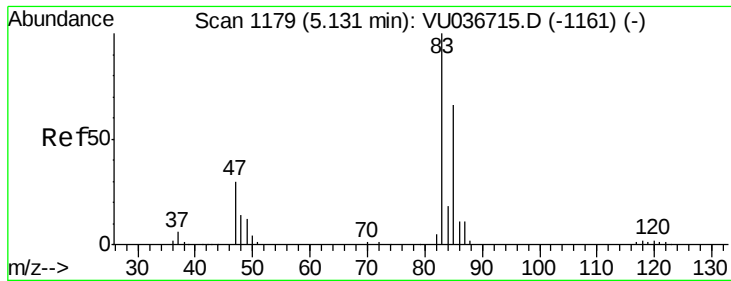
128 100

49 177.2 127.3 236.5

130 139.8 88.5 164.3

51 64.5 44.4 66.6





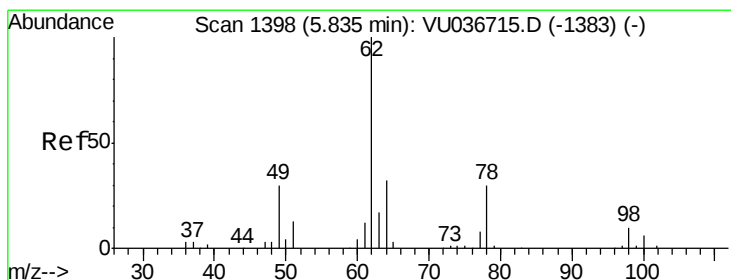
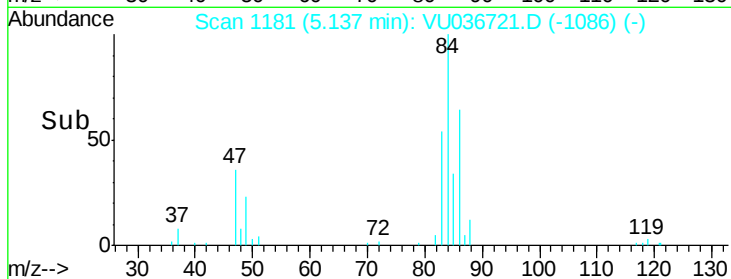
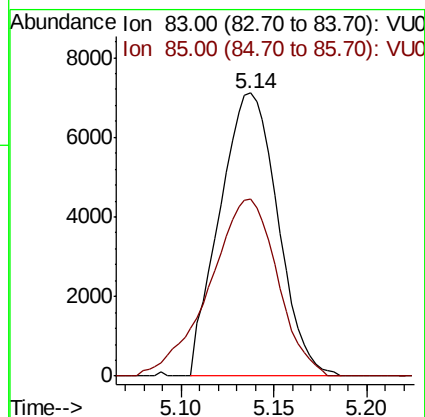
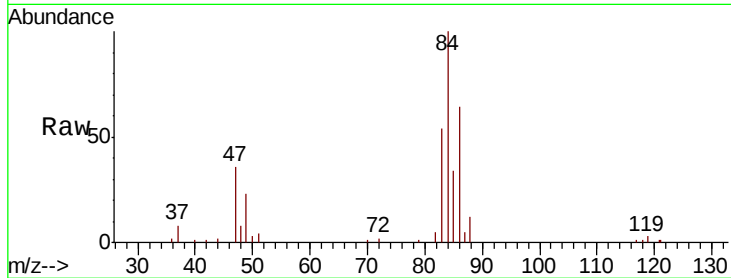
#25
Chloroform
Concen: 4.761 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	83	85	Resp	Lower	Upper
15486	100	62.4		44.6	82.8

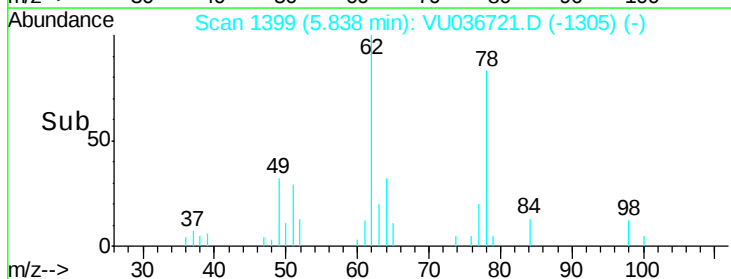
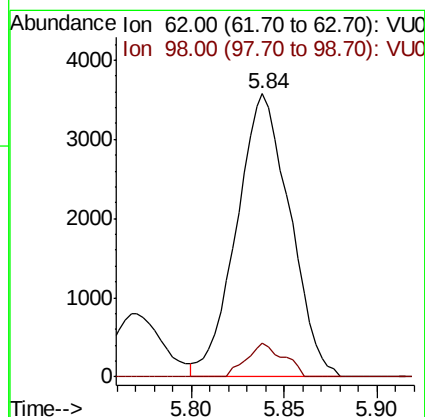
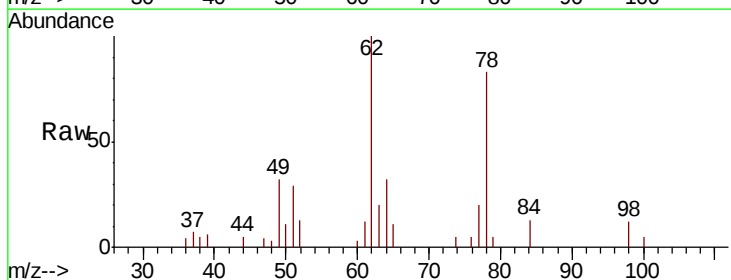
Manual Integrations
APPROVED

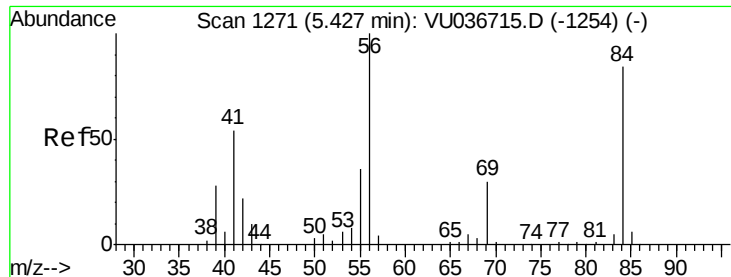
MMDadoda
2/12/2020 3:10:57 PM



#27
1,2-Dichloroethane
Concen: 2.615 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Tgt Ion	62	98	Resp	Lower	Upper
7153	100	11.8		7.0	10.4#





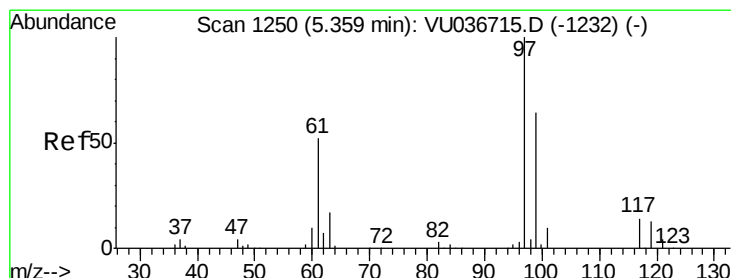
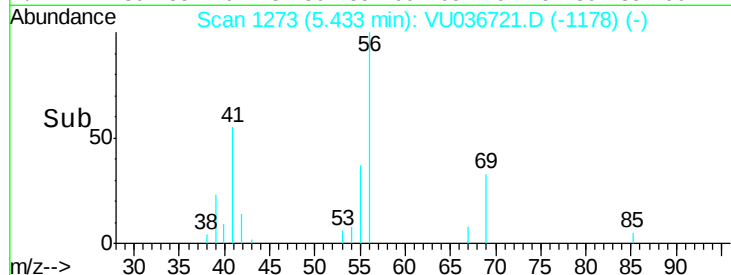
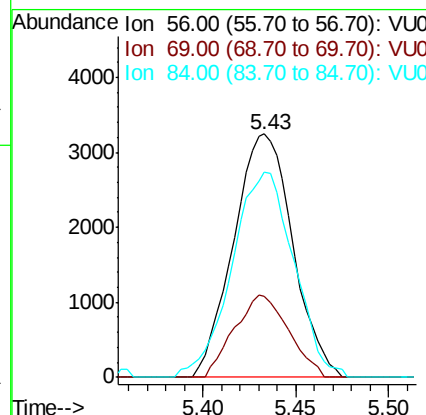
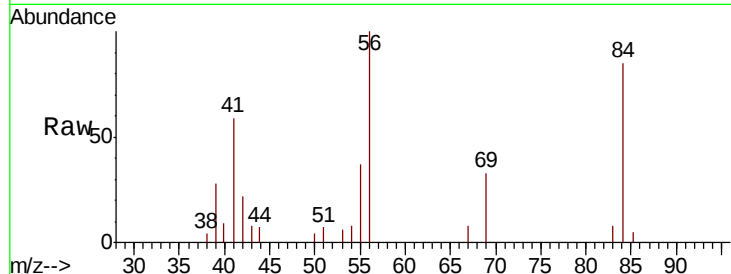
#29
Cyclohexane
Concen: 2.324 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.9	25.0	37.4
84	88.1	68.2	102.2

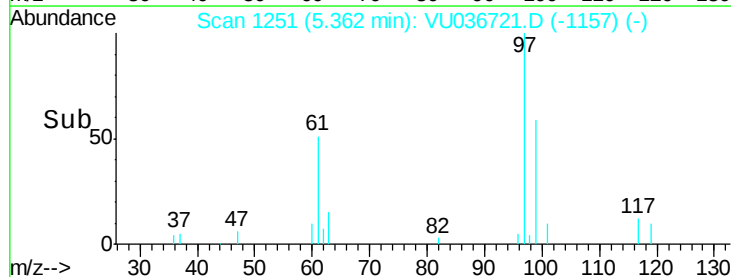
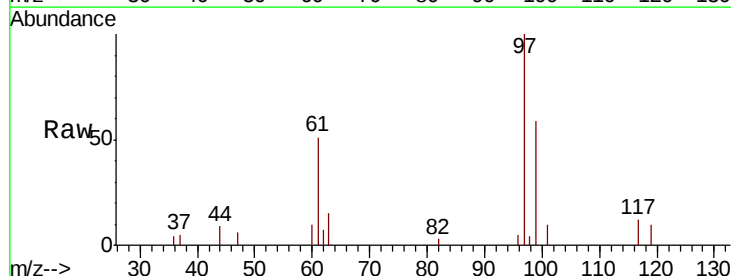
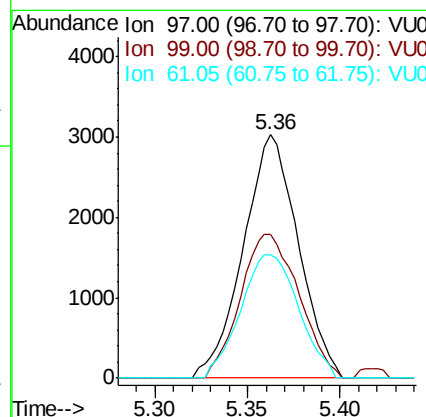
Manual Integrations
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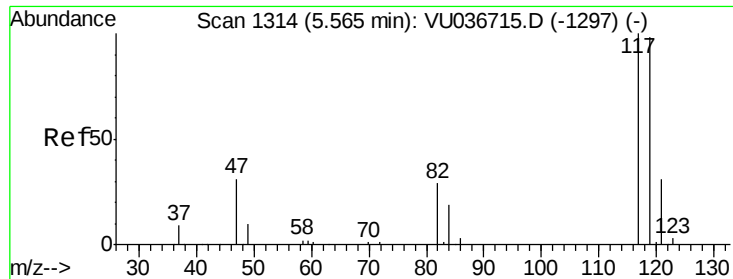
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.437 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.7	50.9	76.3
61	53.5	40.2	60.2





#31

Carbon tetrachloride

Concen: 2.433 ug/L m

RT: 5.57 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion:117 Resp: 5042

Ion Ratio Lower Upper

117 100

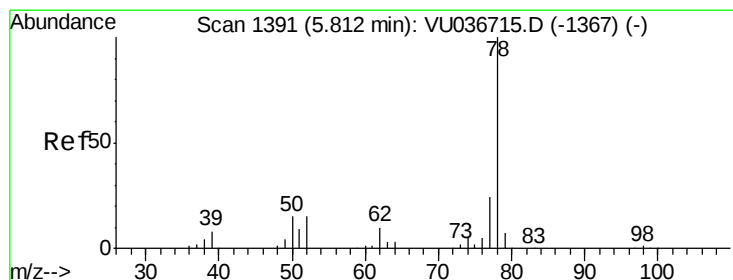
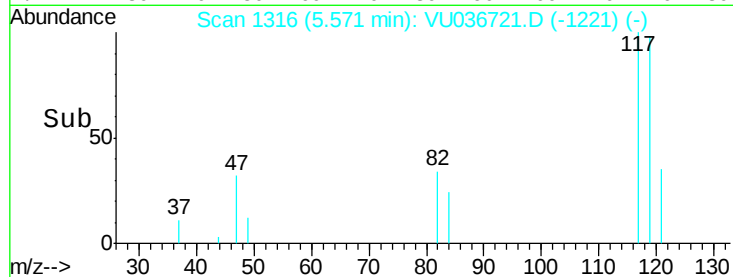
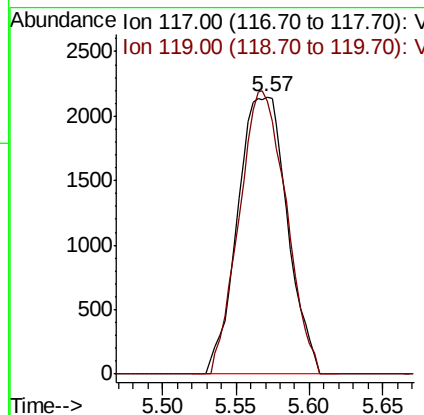
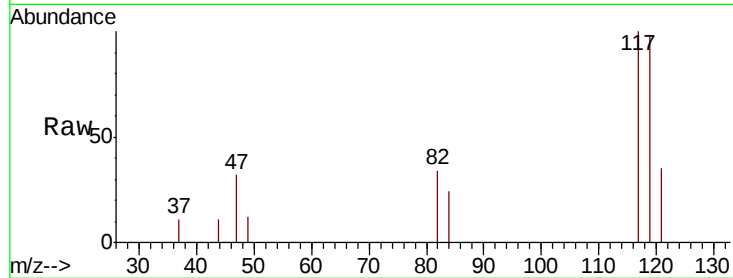
119 96.5 76.2 114.4

Manual Integrations

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#33

Benzene

Concen: 2.621 ug/L

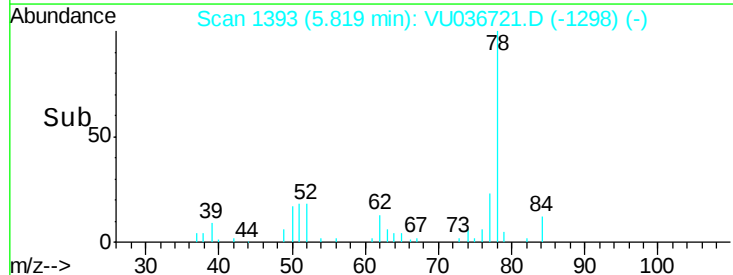
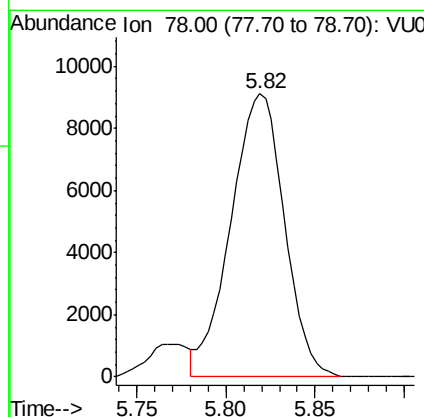
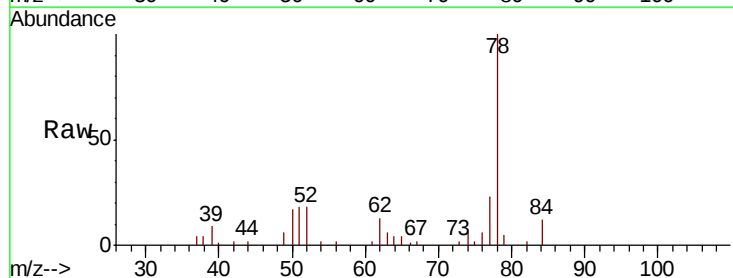
RT: 5.82 min Scan# 1393

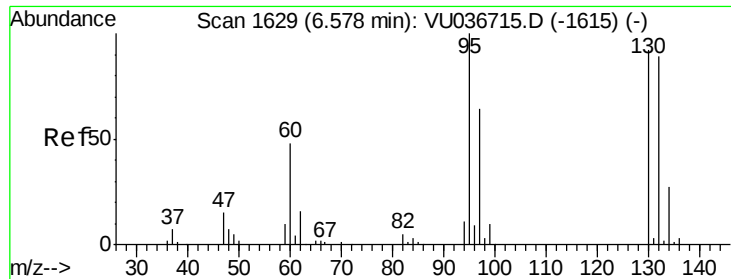
Delta R.T. 0.01 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Tgt Ion: 78 Resp: 19106





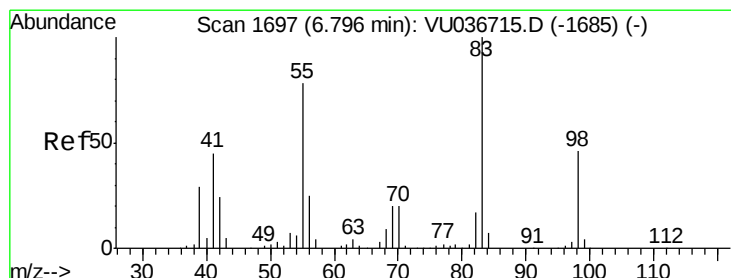
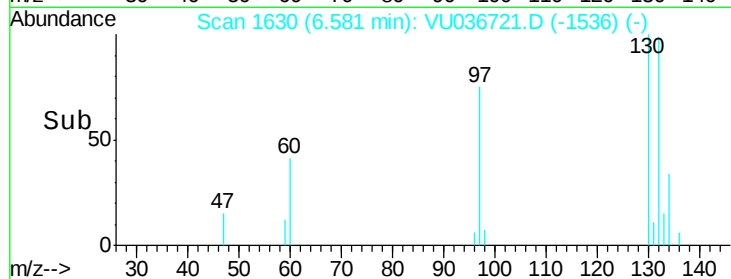
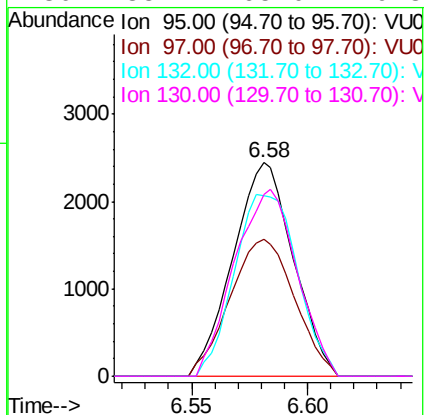
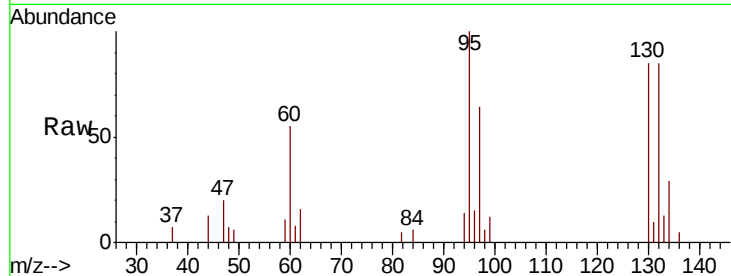
#34
 Trichloroethene
 Concen: 2.446 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion:	95	Resp:	4409
Ion	Ratio	Lower	Upper
95	100		
97	64.0	44.5	82.7
132	84.7	59.6	110.8
130	85.2	65.0	120.8

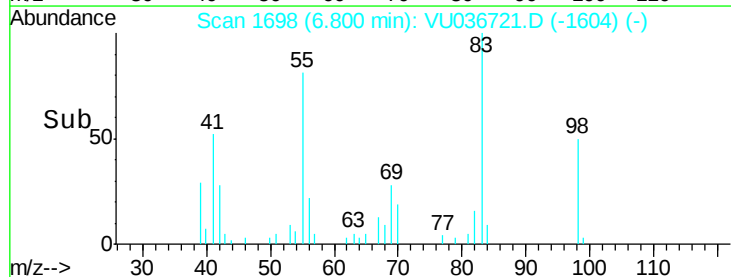
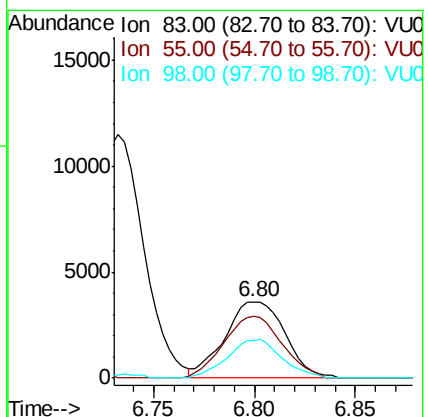
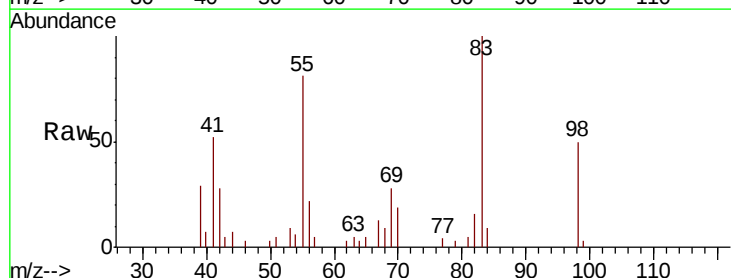
Manual Integrations
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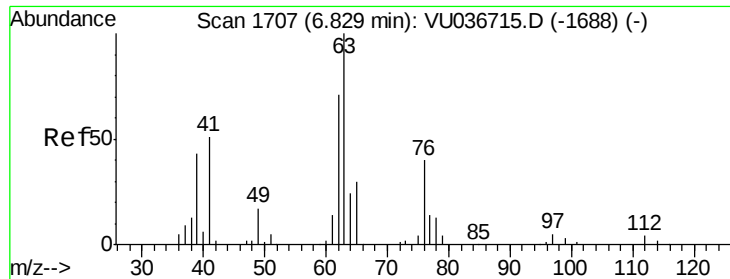
MMDadoda
 2/12/2020 3:10:57 PM



#35
 Methylcyclohexane
 Concen: 2.379 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Tgt Ion:	83	Resp:	7553
Ion	Ratio	Lower	Upper
83	100		
55	77.8	61.2	91.8
98	45.3	35.4	53.0





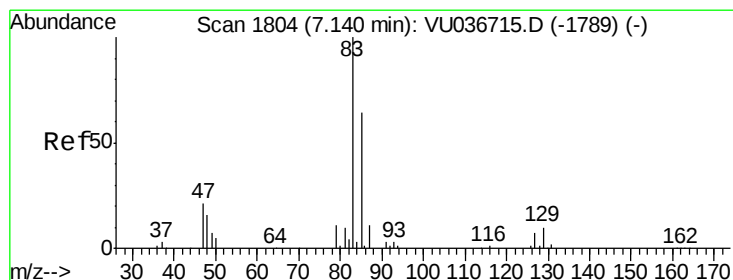
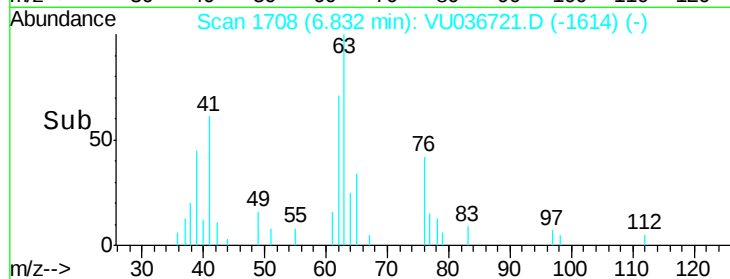
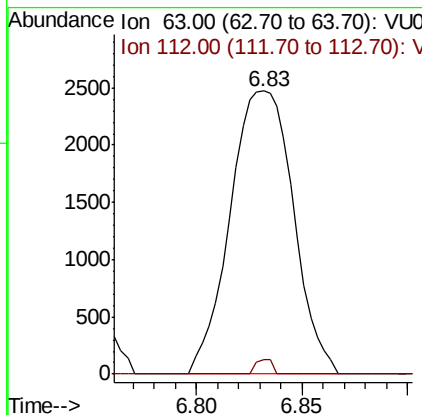
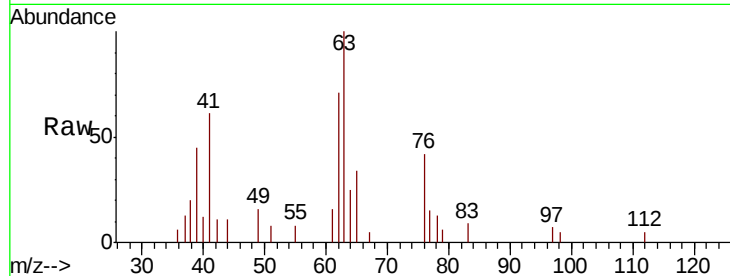
#37
 1,2-Dichloropropane
 Concen: 2.624 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.00 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

Tot Ion: 63 Resp: 5158
 Ion Ratio Lower Upper
 63 100
 112 1.3 3.1 4.7#

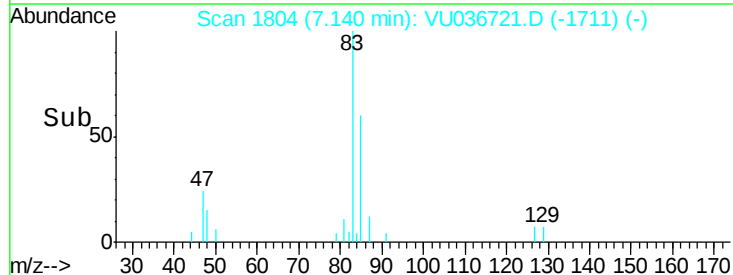
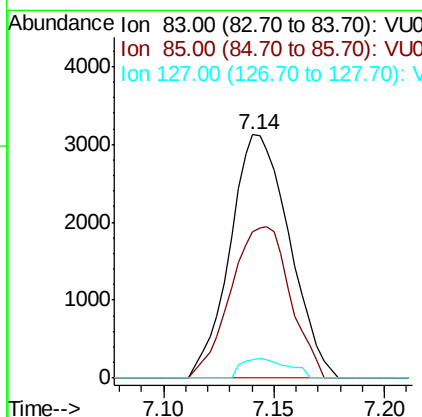
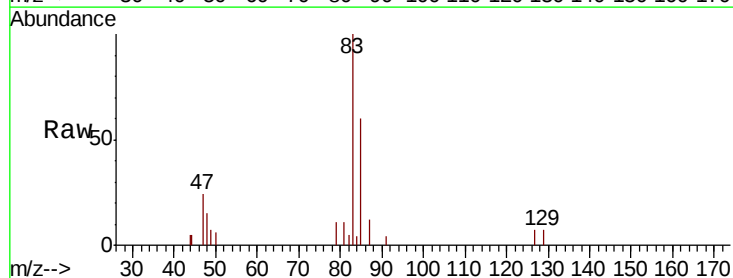
Manual Integrations
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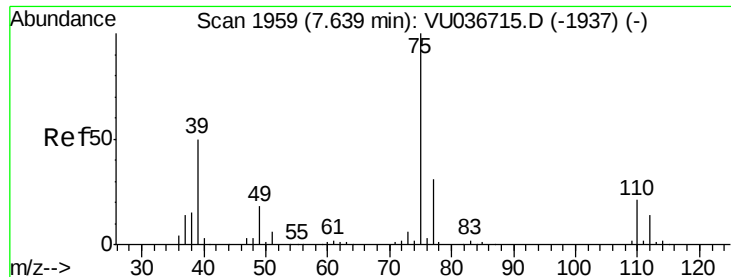
MMDadoda
 2/12/2020 3:10:57 PM



#38
 Bromodichloromethane
 Concen: 2.439 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Tgt Ion: 83 Resp: 5825
 Ion Ratio Lower Upper
 83 100
 85 59.8 43.9 81.5
 127 7.3 6.0 9.0





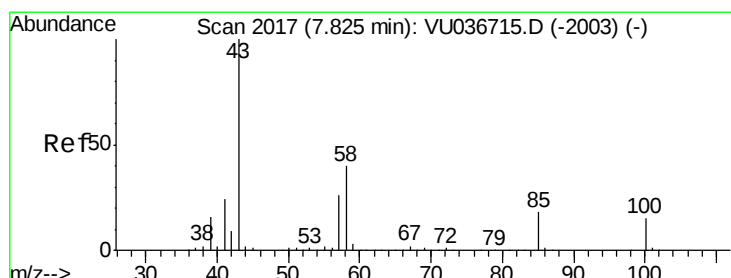
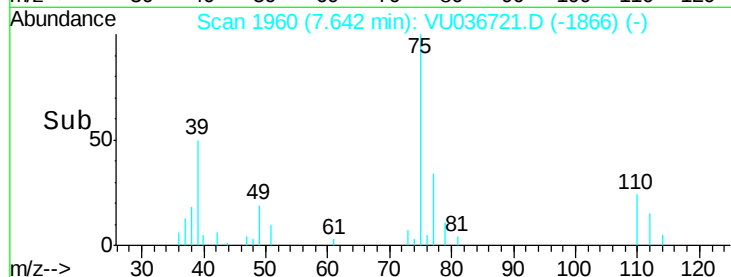
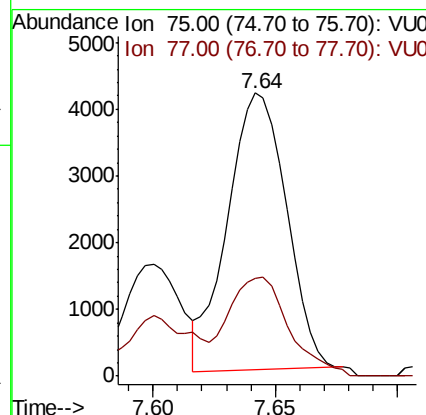
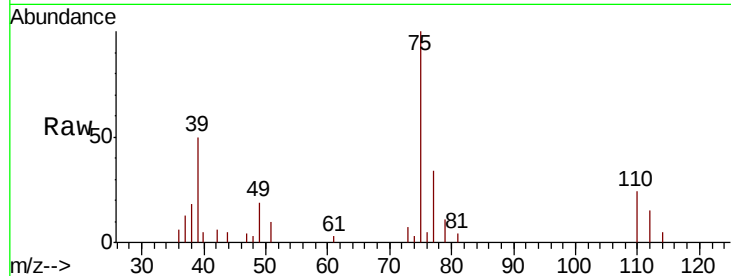
#39
 cis-1,3-Dichloropropene
 Concen: 2.220 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

Tot Ion	Ratio	Lower	Upper
75	100		
77	34.5	22.3	41.5

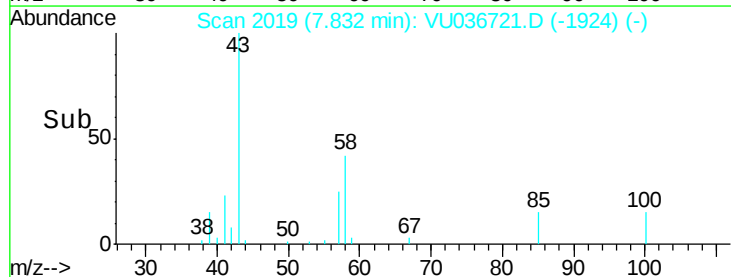
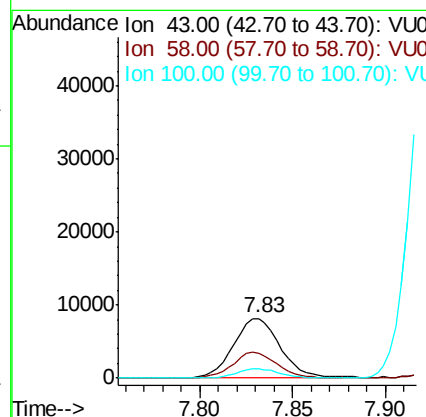
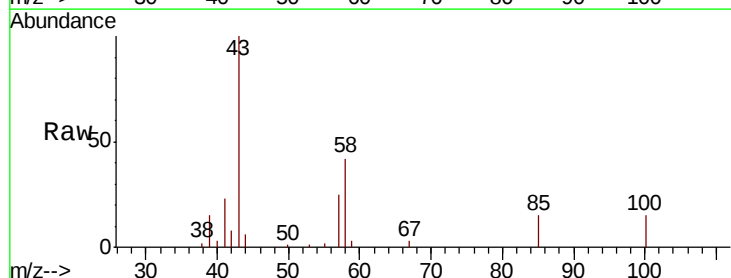
Manual Integrations
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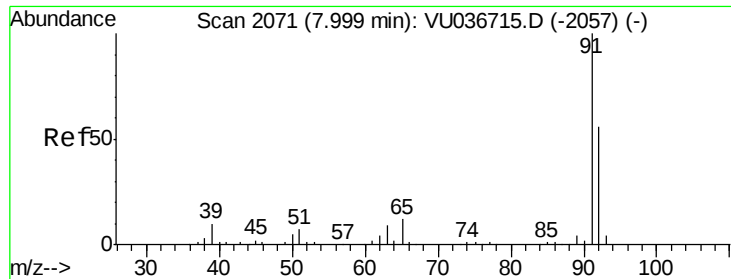
MMDadoda
 2/12/2020 3:10:57 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.597 ug/L
 RT: 7.83 min Scan# 2019
 Delta R.T. 0.01 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.2	31.0	46.6
100	14.1	11.4	17.2





#42

Toluene

Concen: 2.559 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 91 Resp: 20155

Ion Ratio Lower Upper

91 100

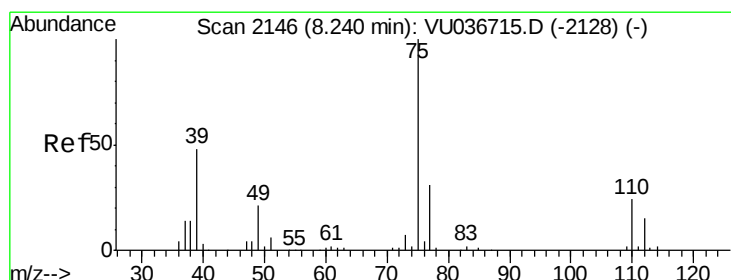
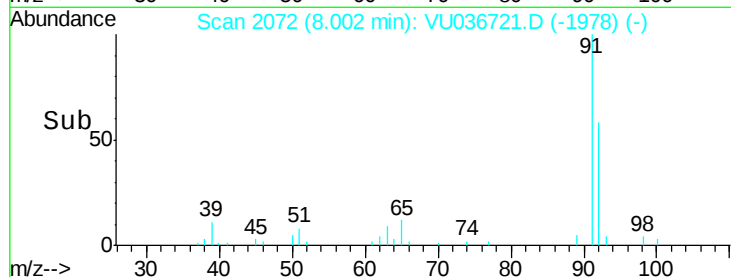
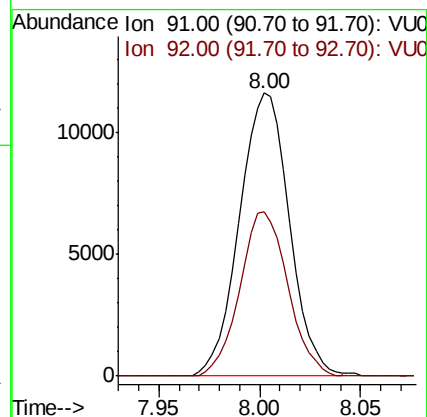
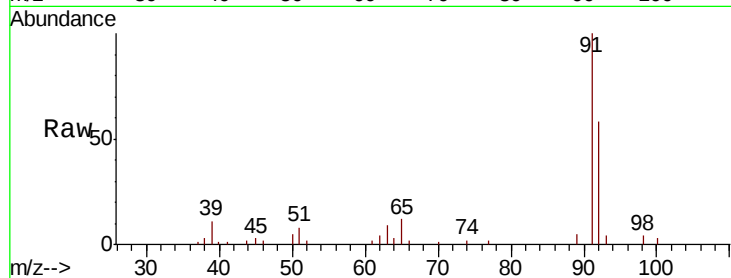
92 58.0 39.5 73.3

Manual Integrations

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MMDadoda

2/12/2020 3:10:57 PM



#44

trans-1,3-Dichloropropene

Concen: 2.405 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036721.D

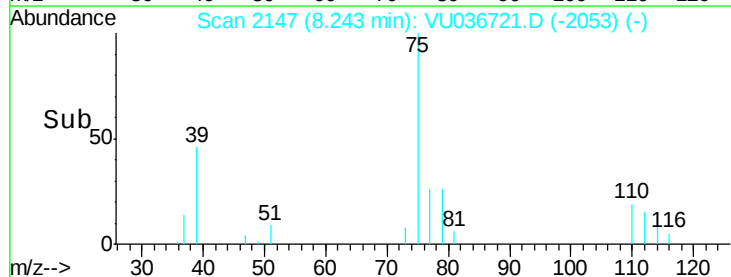
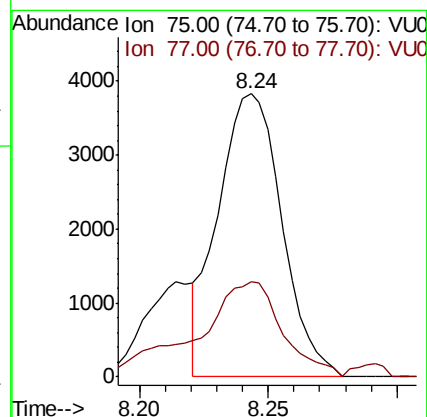
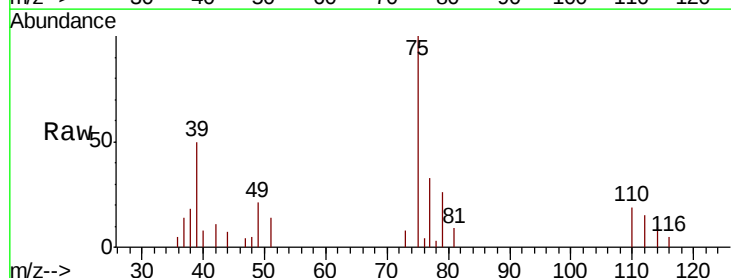
Acq: 11 Feb 2020 13:32

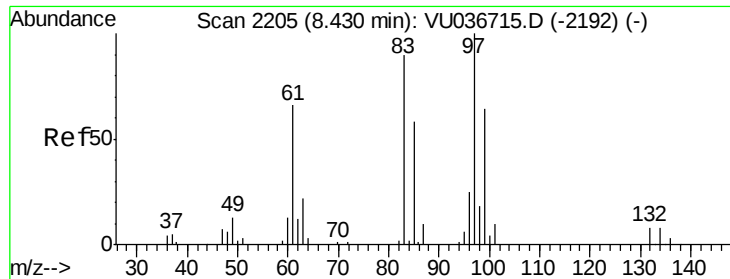
Tgt Ion: 75 Resp: 6598

Ion Ratio Lower Upper

75 100

77 33.4 22.6 42.0





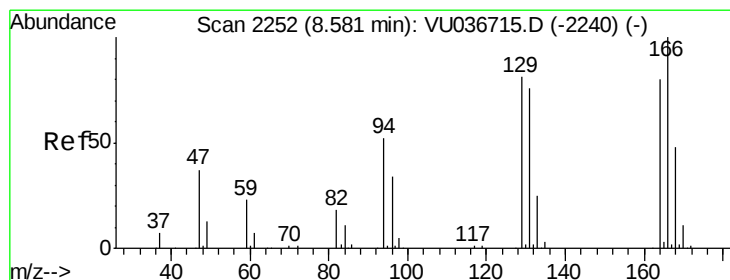
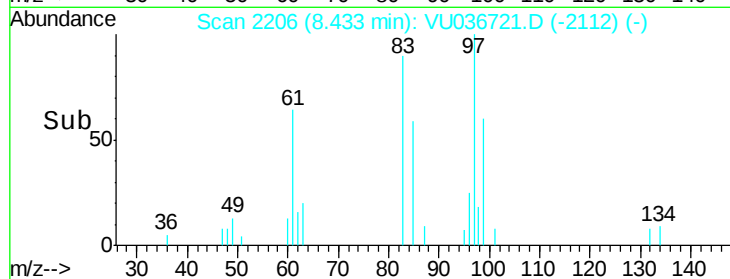
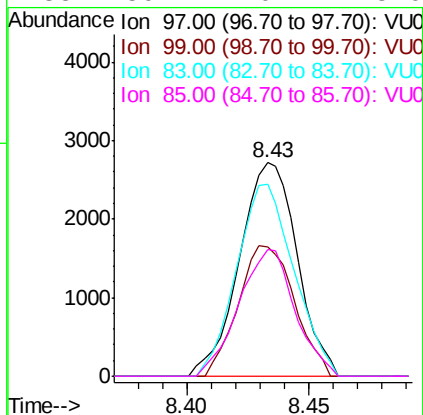
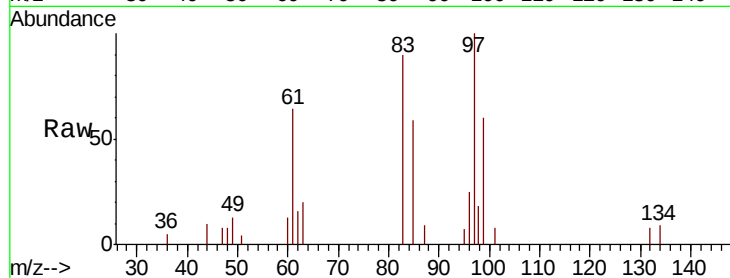
#45
1,1,2-Trichloroethane
Concen: 2.484 ug/L
RT: 8.43 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion:	97	Resp:	4454
Ion	Ratio	Lower	Upper
97	100		
99	60.3	42.6	79.0
83	90.1	61.1	113.5
85	59.2	40.4	75.0

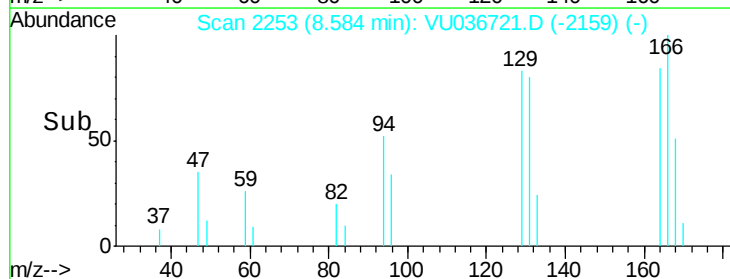
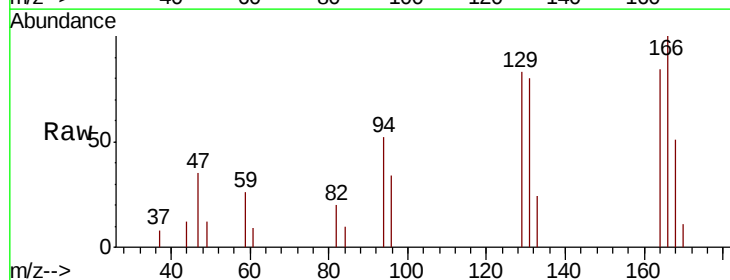
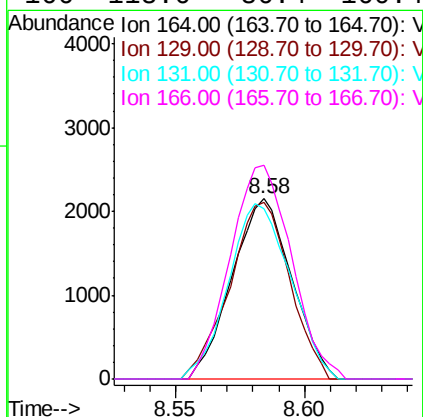
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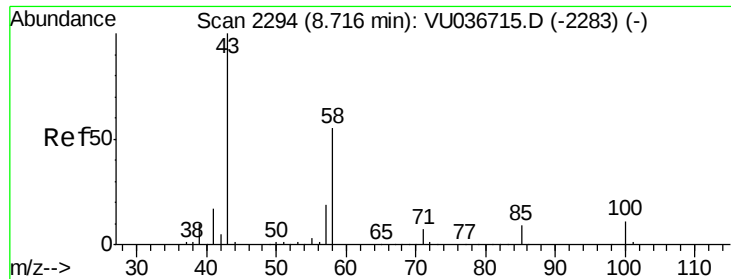
MMDadoda
2/12/2020 3:10:57 PM



#46
Tetrachloroethene
Concen: 2.756 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. 0.00 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Tgt Ion:	164	Resp:	3486
Ion	Ratio	Lower	Upper
164	100		
129	97.9	71.0	131.9
131	94.6	66.6	123.6
166	118.6	86.4	160.4





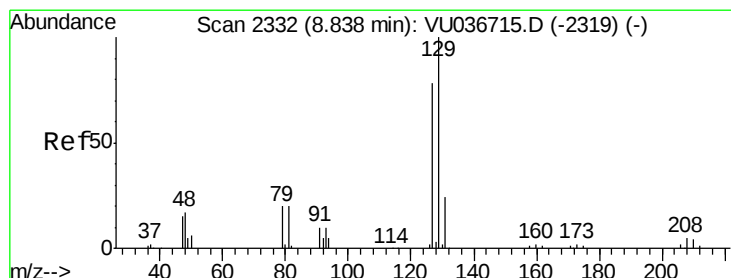
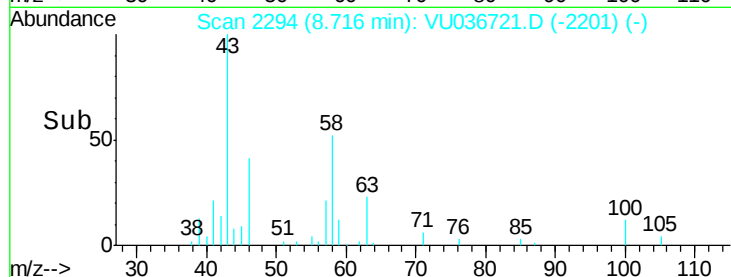
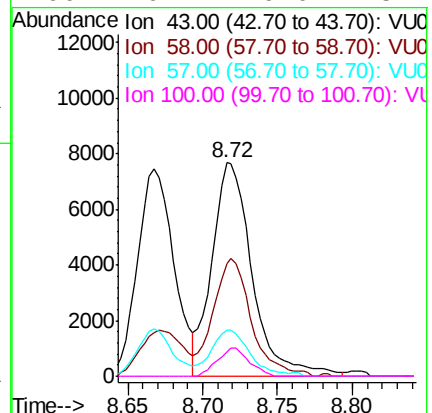
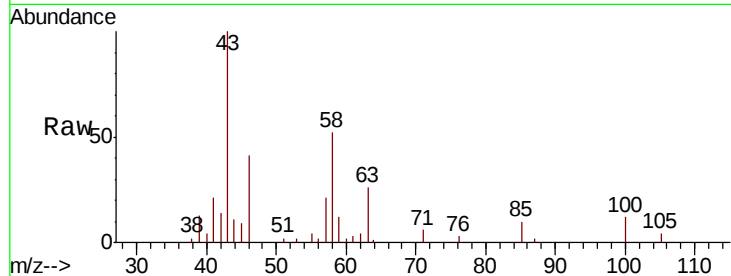
#48
2-Hexanone
Concen: 5.691 ug/L
RT: 8.72 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	52.1	43.6	65.4	
57	20.7	15.5	23.3	
100	10.4	9.0	13.4	

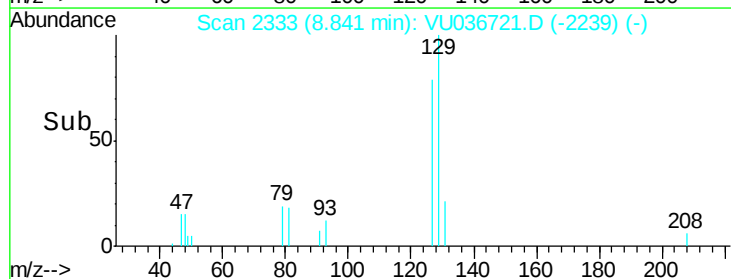
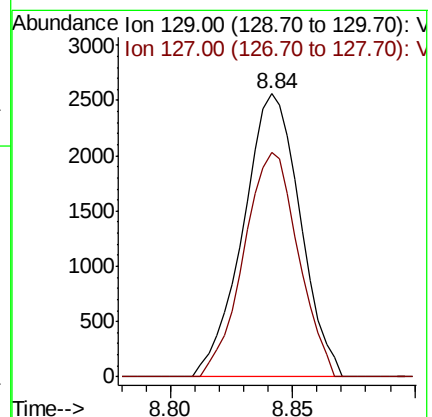
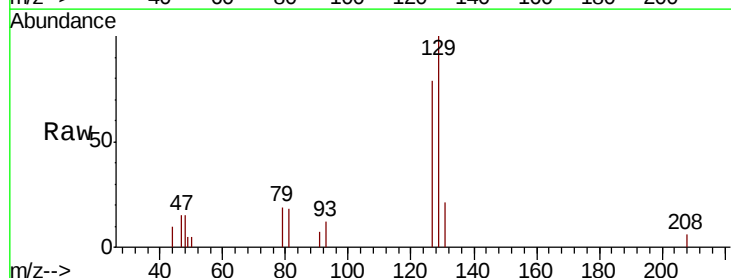
Manual Integrations
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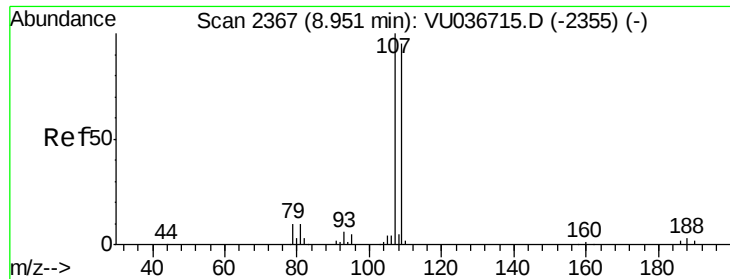
MMDadoda
2/12/2020 3:10:57 PM



#49
Dibromochloromethane
Concen: 2.367 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.3	53.6	99.6	





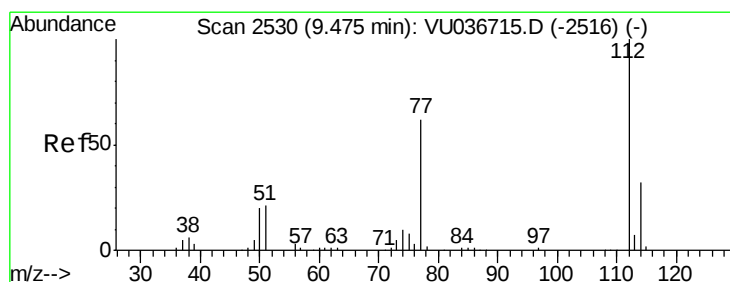
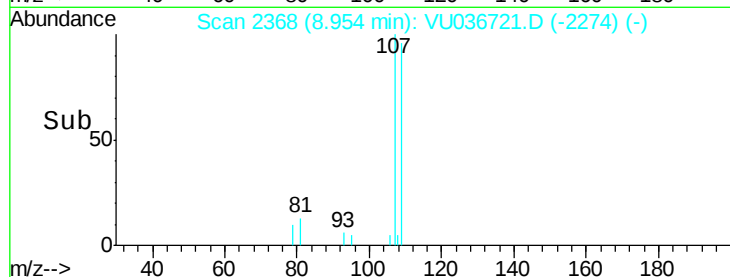
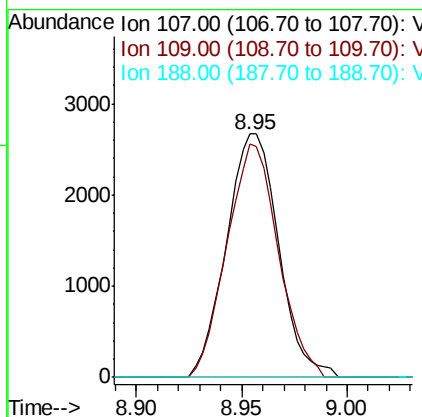
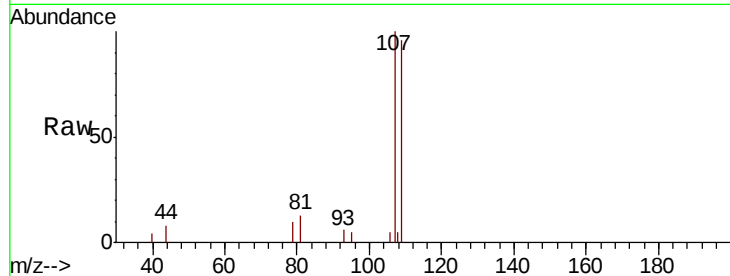
#50
1,2-Dibromoethane
Concen: 2.436 ug/L
RT: 8.95 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Instrument :
MSVOA_U
ClientSampleId :
MDL07

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

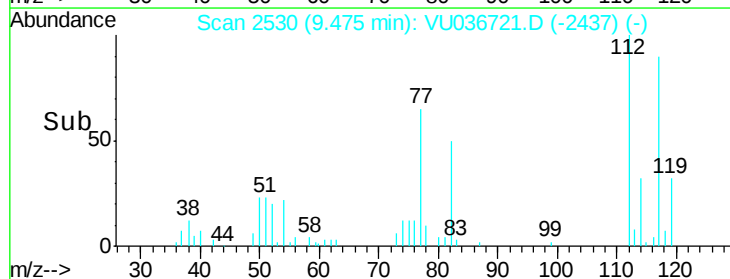
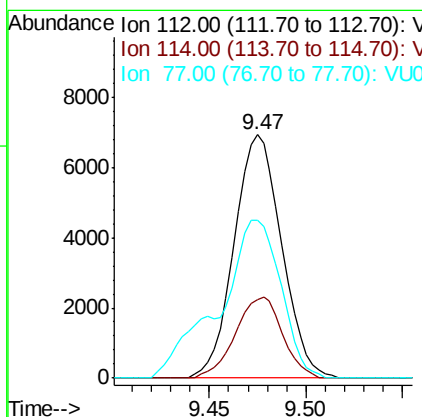
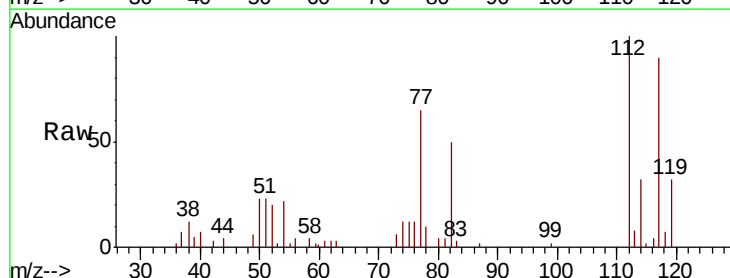
Manual Integrations
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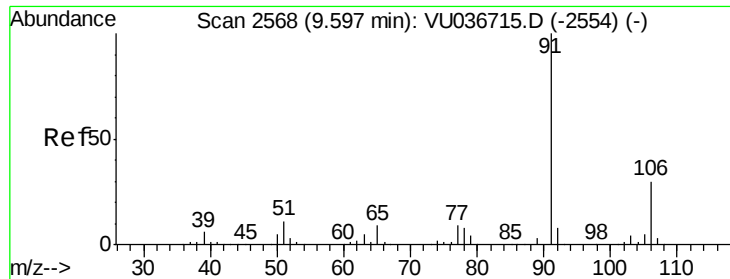
MMDadoda
2/12/2020 3:10:57 PM



#51
Chlorobenzene
Concen: 2.502 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. 0.00 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.7	42.1
77	65.0	50.6	75.8





#52

Ethylbenzene

Concen: 2.382 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 91 Resp: 20612

Ion Ratio Lower Upper

91 100

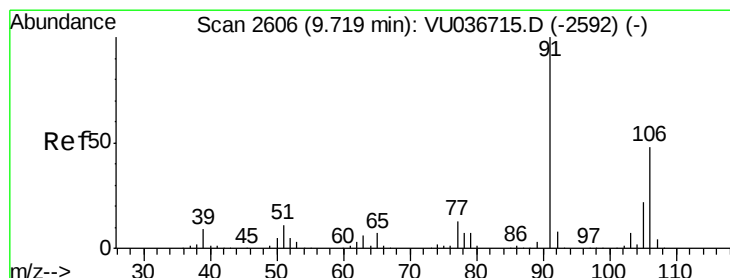
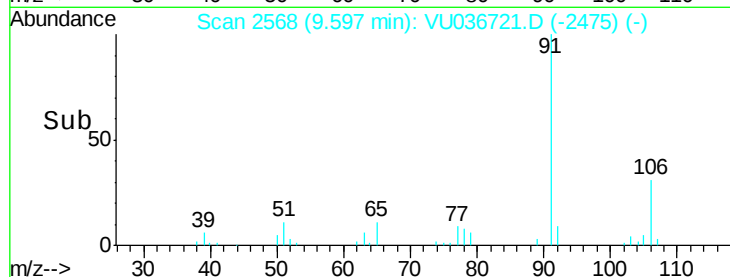
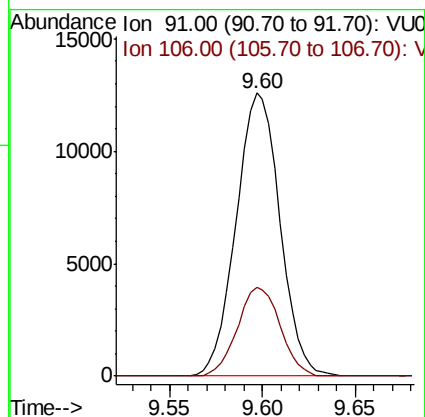
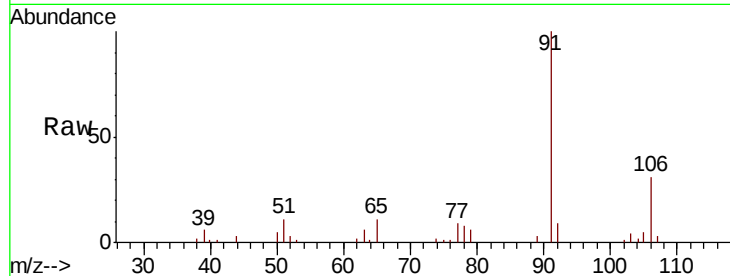
106 31.5 21.3 39.6

Manual Integrations

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2/12/2020 3:10:57 PM



#53

m,p-Xylene

Concen: 2.350 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036721.D

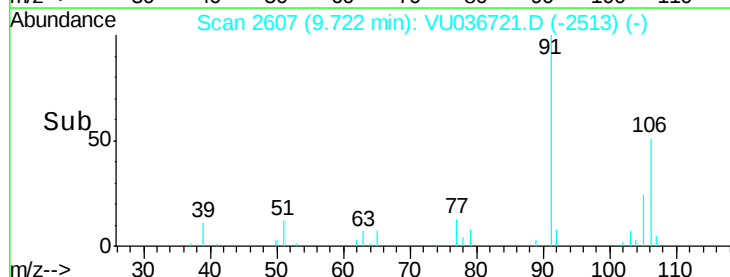
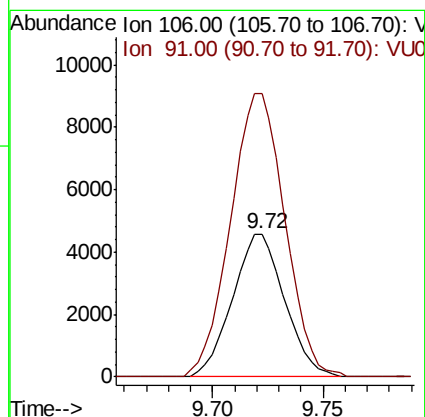
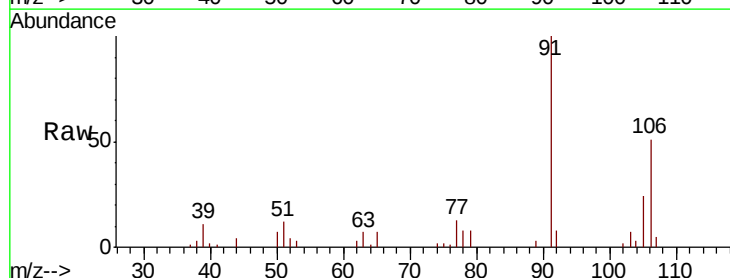
Acq: 11 Feb 2020 13:32

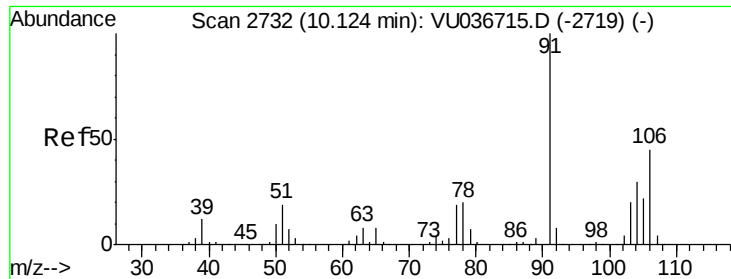
Tgt Ion: 106 Resp: 7504

Ion Ratio Lower Upper

106 100

91 197.7 145.9 270.9





#54

o-xylene

Concen: 2.296 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion:106 Resp: 7260

Ion Ratio Lower Upper

106 100

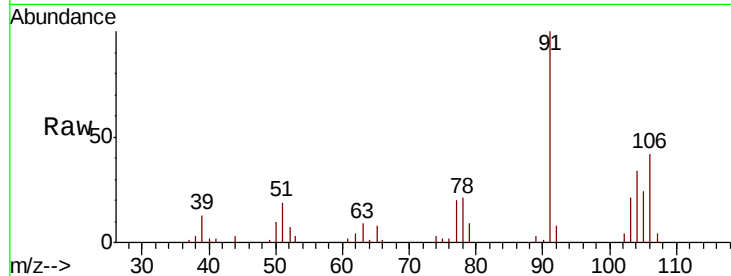
91 240.2 156.0 289.6

Manual Integrations

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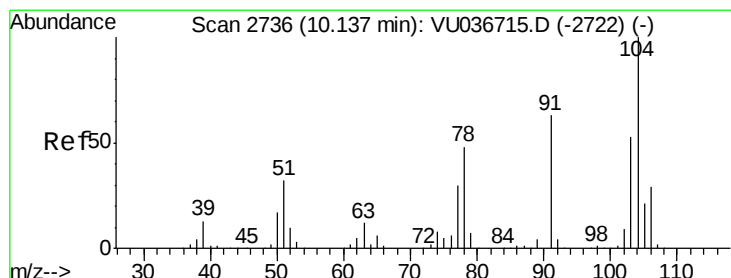
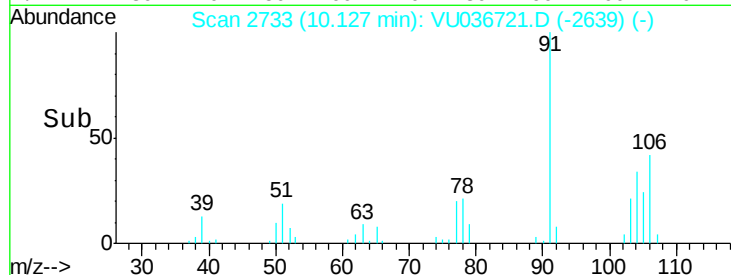
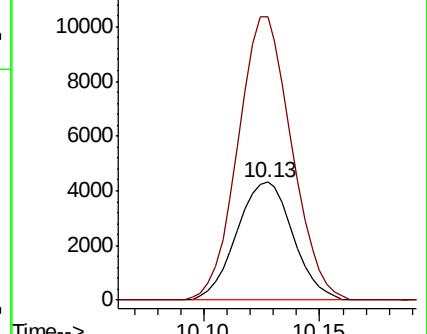
MMDadoda

2/12/2020 3:10:57 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.181 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036721.D

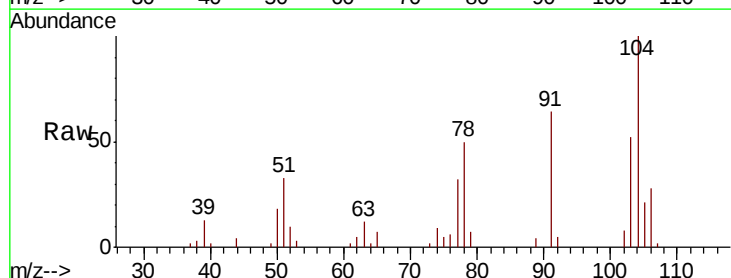
Acq: 11 Feb 2020 13:32

Tgt Ion:104 Resp: 11498

Ion Ratio Lower Upper

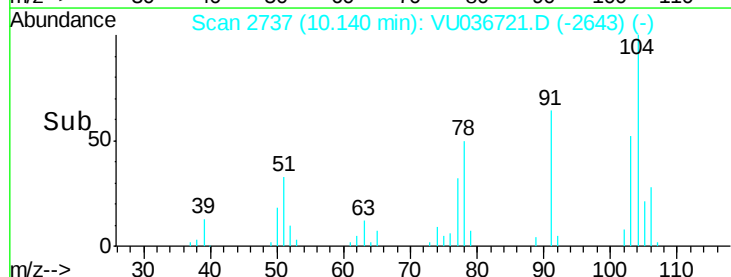
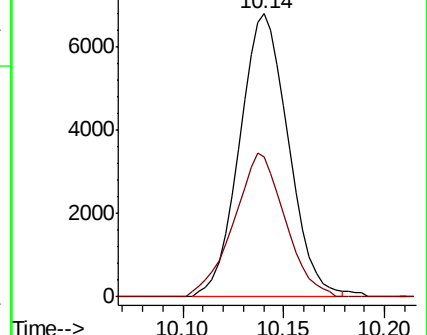
104 100

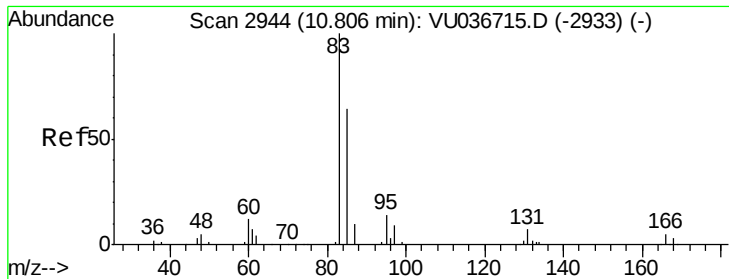
78 49.6 33.7 62.7



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: 2.518 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. 0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

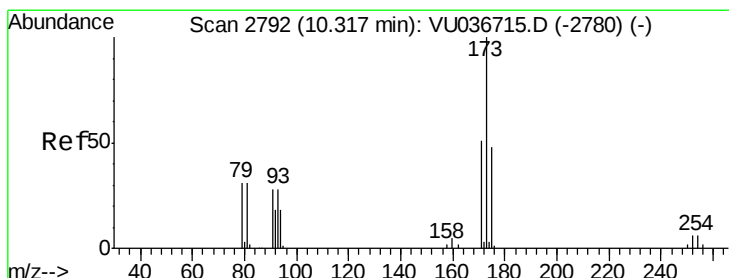
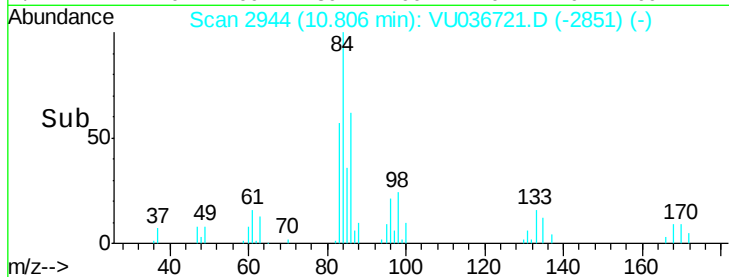
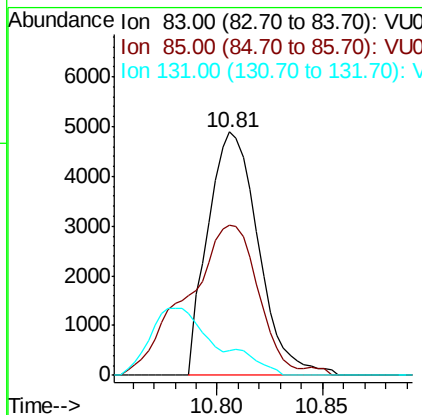
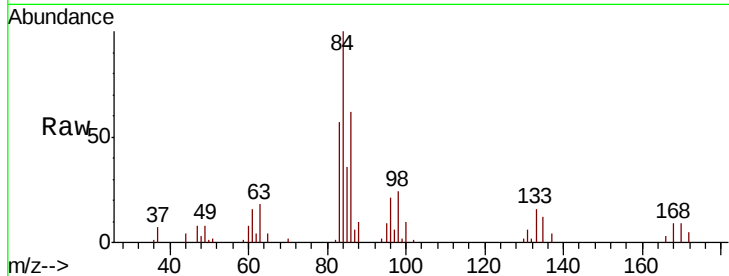
ClientSampled :

MDL07

Tot Ion:	83	Resp:	8137
Ion	Ratio	Lower	Upper
83	100		
85	61.8	44.7	82.9
131	10.2	6.8	10.2#

Manual Integrations
APPROVED

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#59

Bromoform

Concen: 2.341 ug/L

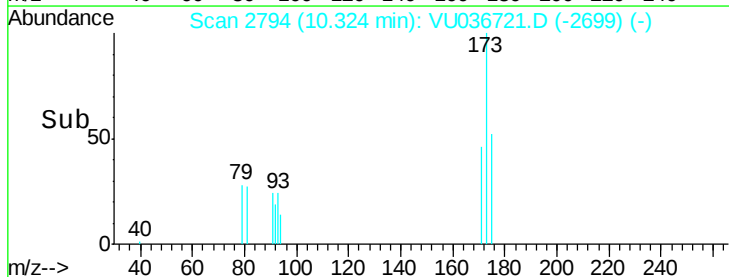
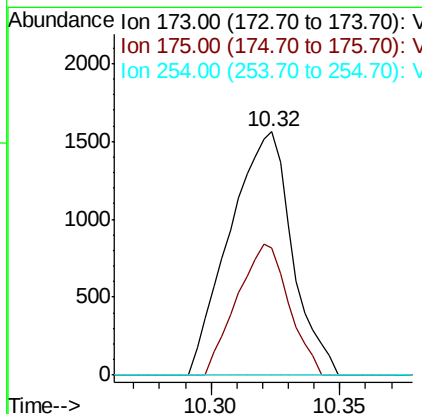
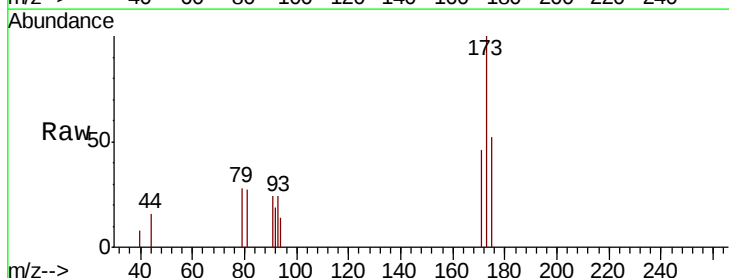
RT: 10.32 min Scan# 2794

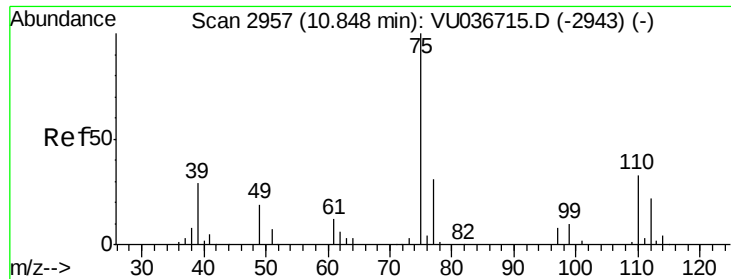
Delta R.T. 0.01 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Tgt Ion:	173	Resp:	2635
Ion	Ratio	Lower	Upper
173	100		
175	44.5	38.2	57.4
254	0.0	4.8	7.2#





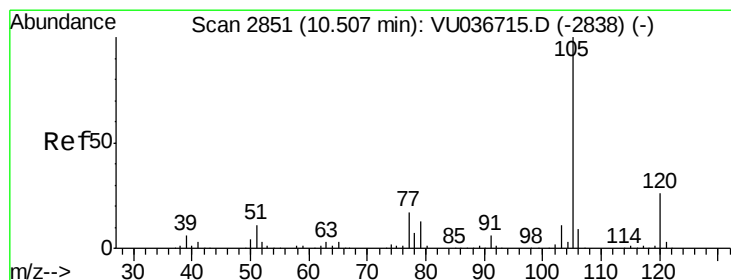
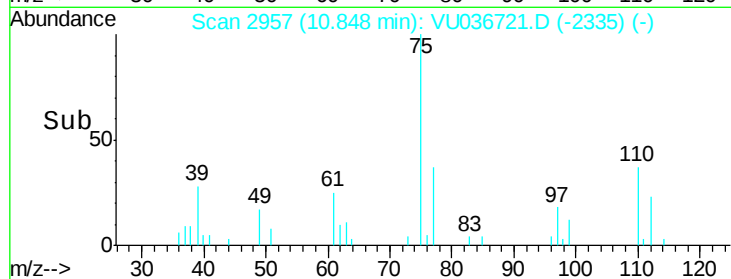
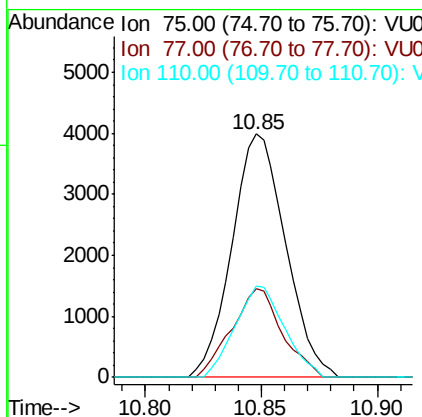
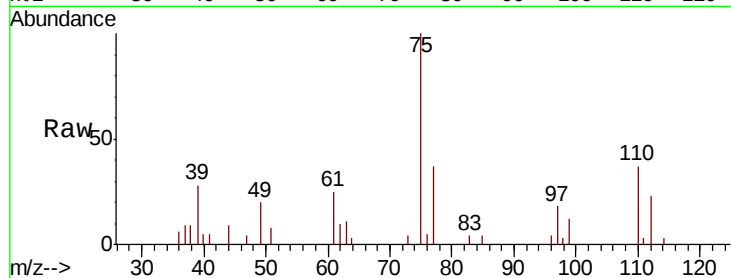
#60
1,2,3-Trichloropropane
Concen: 2.674 ug/L
RT: 10.85 min Scan# 2957
Delta R.T. 0.00 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
75	100		
77	34.4	26.1	39.1
110	34.5	26.9	40.3

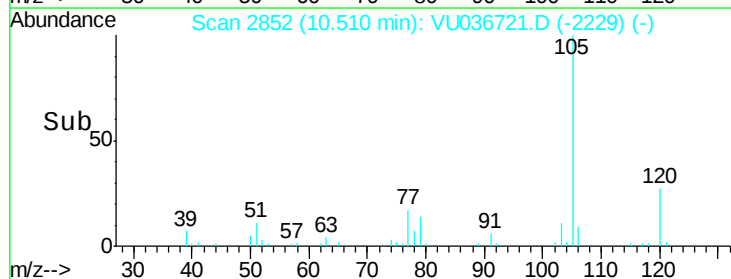
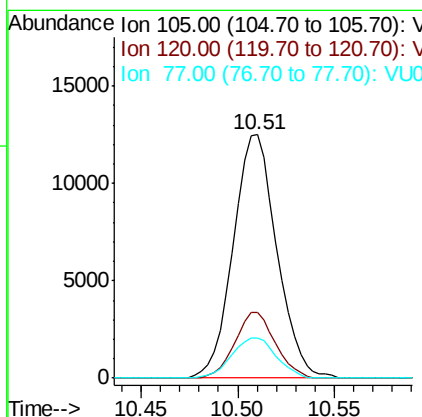
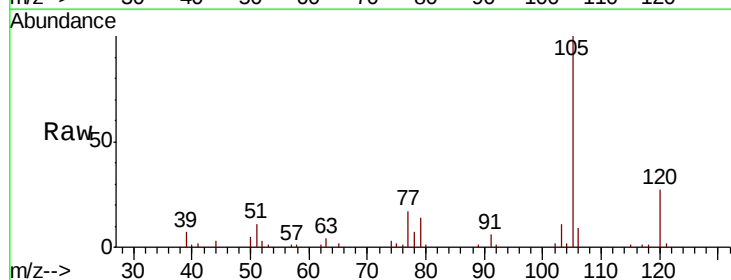
Manual Integrations
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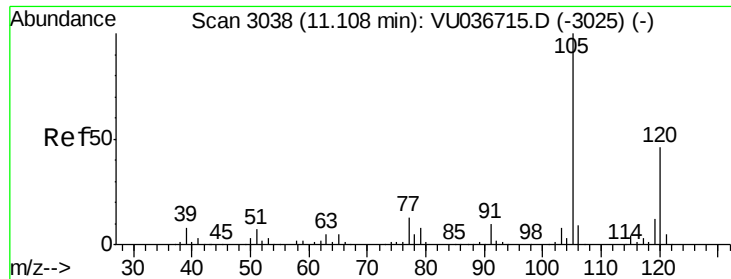
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#61
Isopropylbenzene
Concen: 2.581 ug/L
RT: 10.51 min Scan# 2852
Delta R.T. 0.00 min
Lab File: VU036721.D
Acq: 11 Feb 2020 13:32

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.1	20.2	30.4
77	17.1	13.0	19.6





#62

1,3,5-Trimethylbenzene

Concen: 2.420 ug/L

RT: 11.11 min Scan# 3039

Delta R.T. 0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion:105 Resp: 15739

Ion Ratio Lower Upper

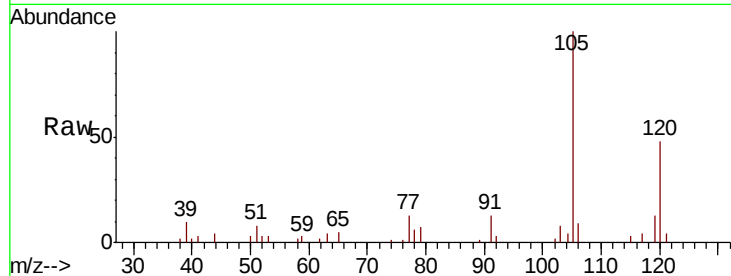
105 100

120 46.1 37.1 55.7

Manual Integrations
APPROVED

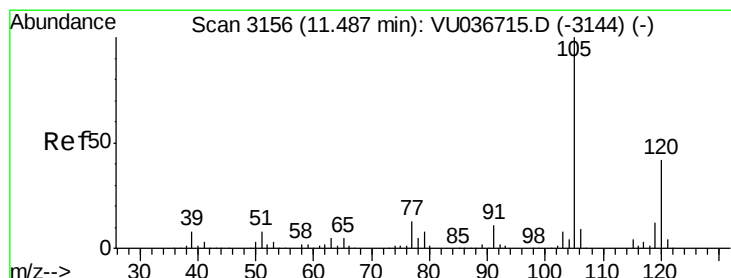
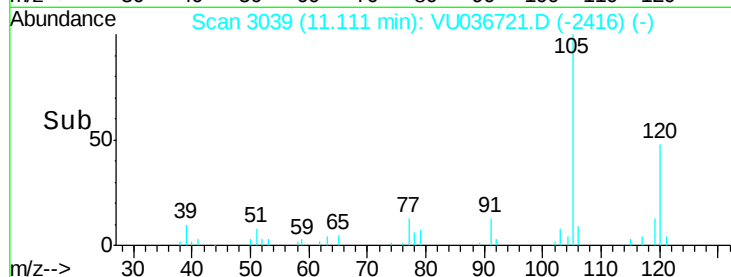
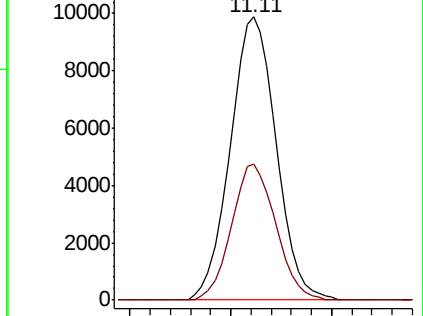
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.317 ug/L

RT: 11.49 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VU036721.D

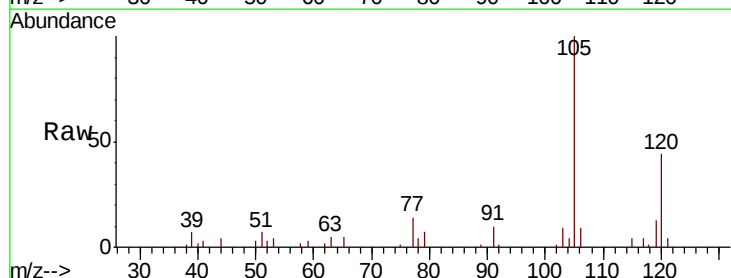
Acq: 11 Feb 2020 13:32

Tgt Ion:105 Resp: 15046

Ion Ratio Lower Upper

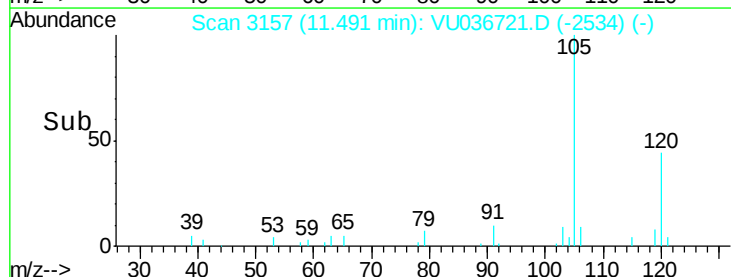
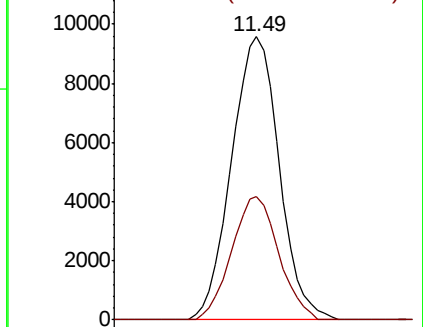
105 100

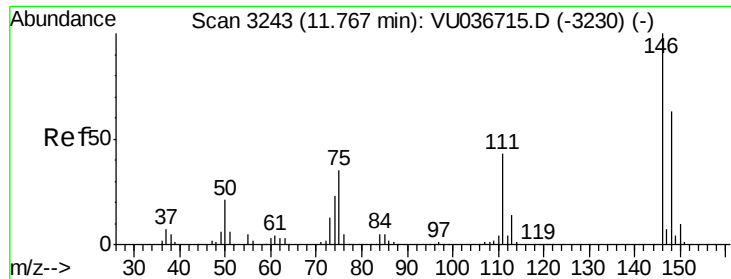
120 42.8 34.7 52.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





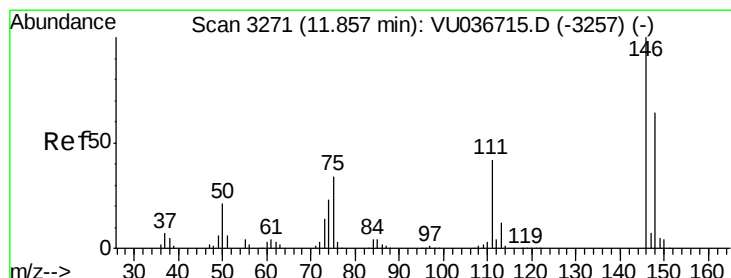
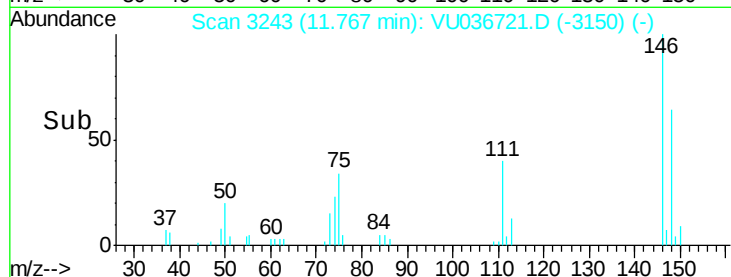
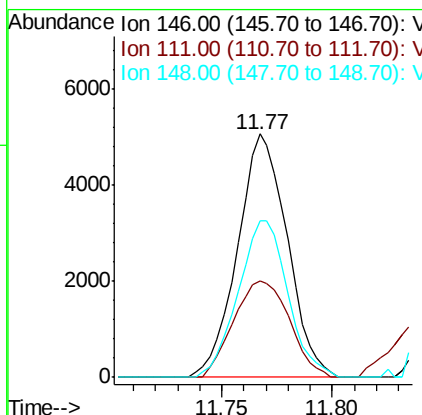
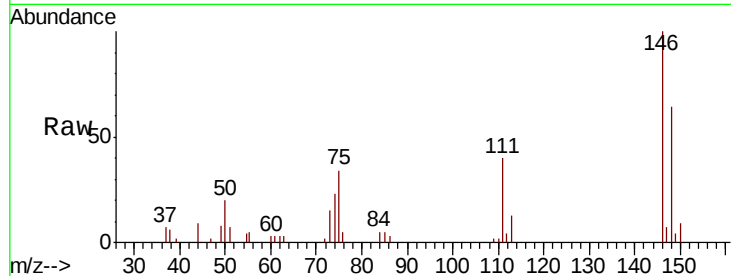
#64
 1,3-Dichlorobenzene
 Concen: 2.483 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. -0.00 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	30.4	56.4
148	64.2	44.5	82.7

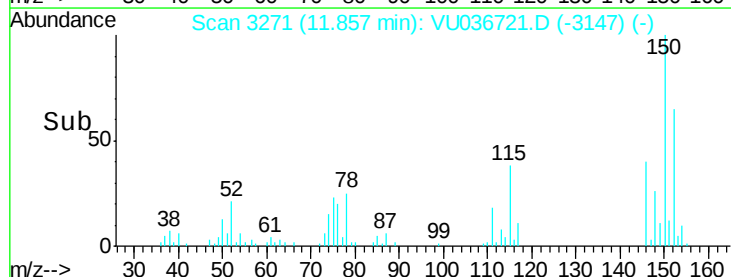
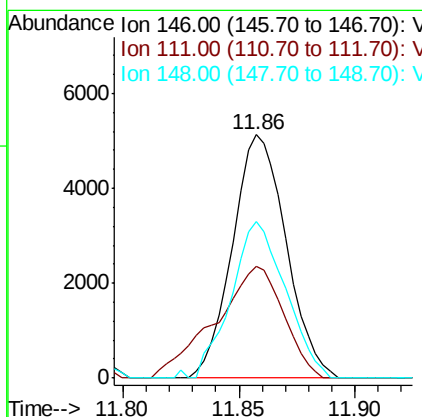
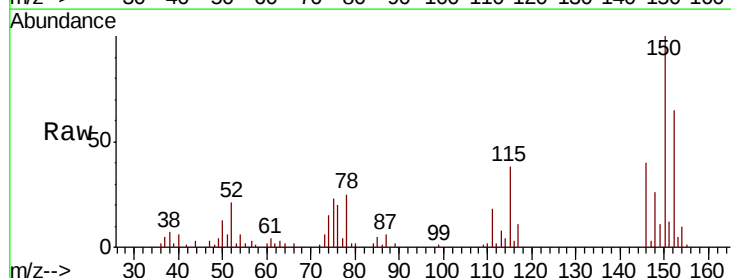
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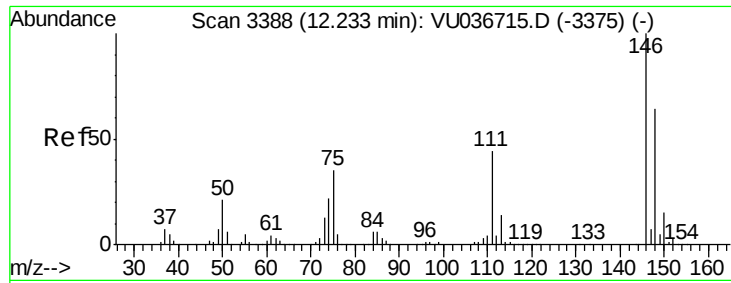
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#65
 1,4-Dichlorobenzene
 Concen: 2.569 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. 0.00 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.8	29.3	54.3
148	64.1	44.8	83.2





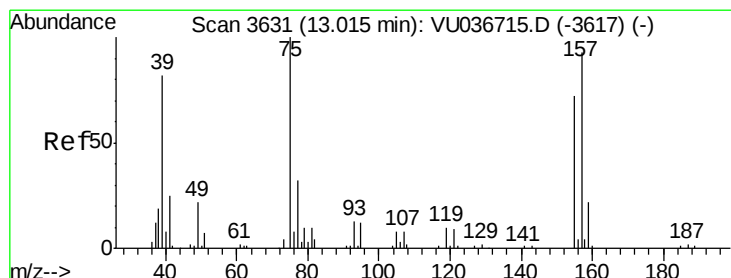
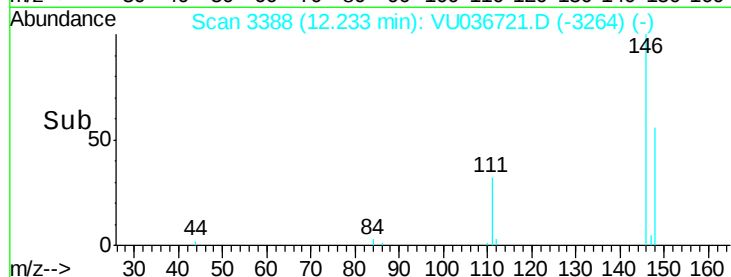
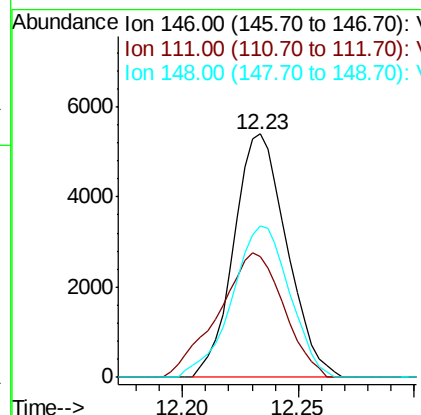
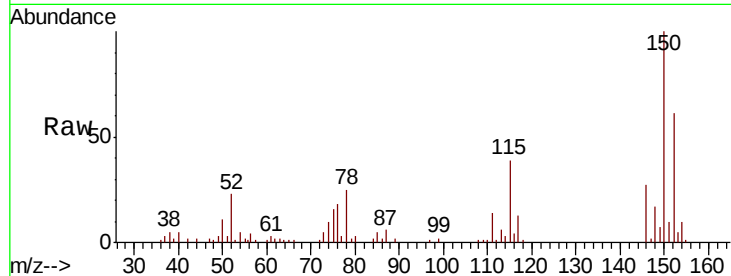
#67
 1,2-Dichlorobenzene
 Concen: 2.649 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. 0.00 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	35.4	53.0
148	62.0	50.4	75.6

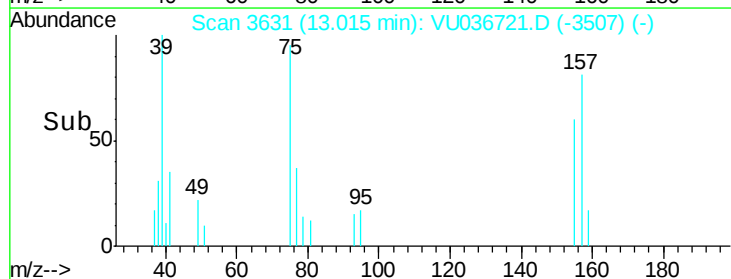
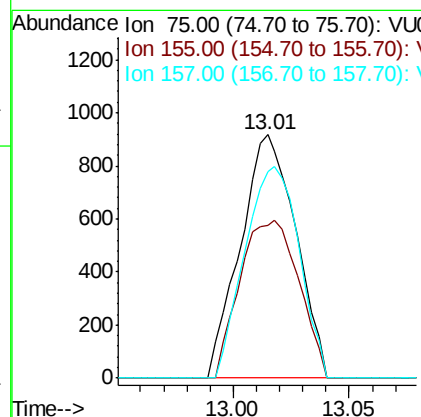
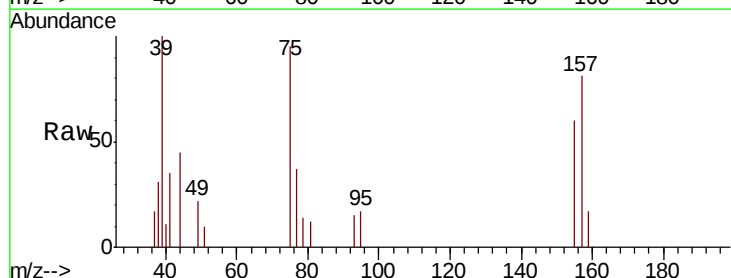
Manual Integrations
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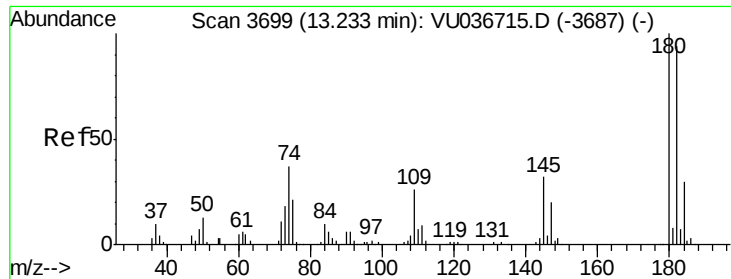
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.221 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. 0.00 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	62.7	58.7	88.1
157	84.7	77.8	116.6





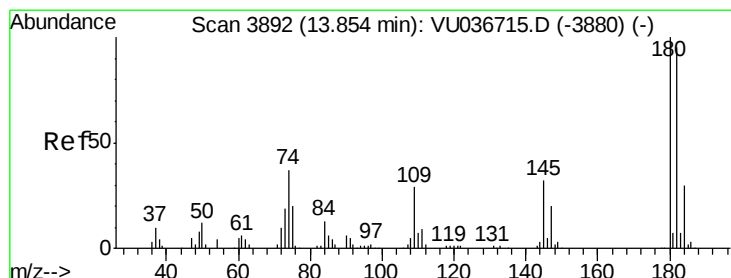
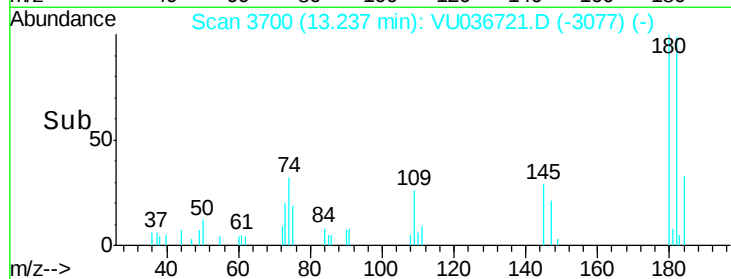
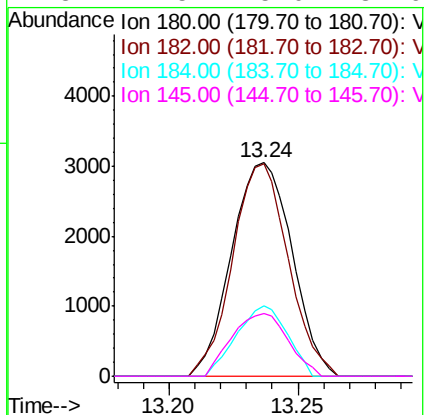
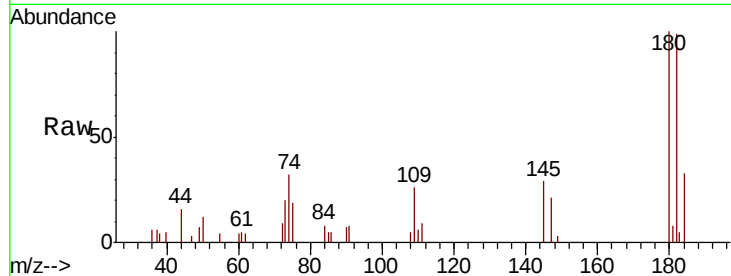
#69
 1,3,5-Trichlorobenzene
 Concen: 2.253 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion:	180	Resp:	4985
Ion	Ratio	Lower	Upper
180	100		
182	91.8	76.2	114.4
184	27.8	23.8	35.6
145	27.5	25.0	37.6

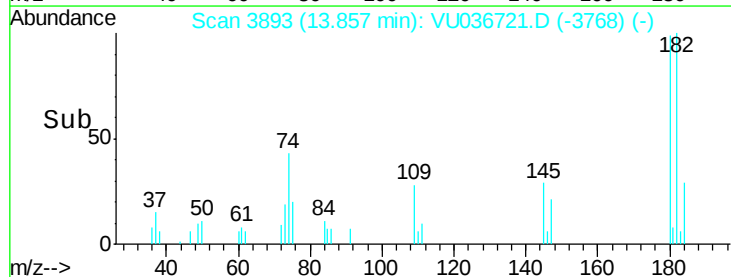
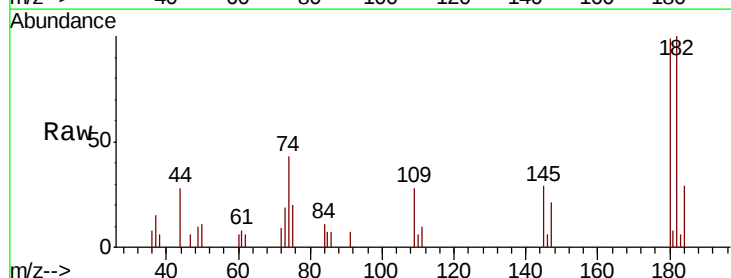
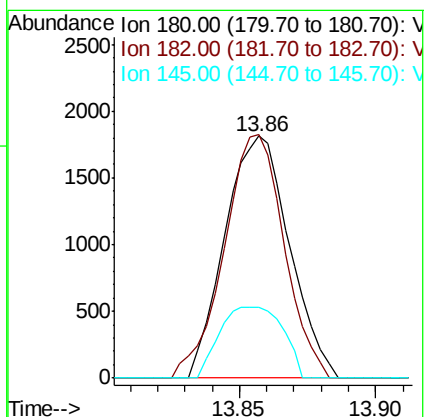
Manual Integrations
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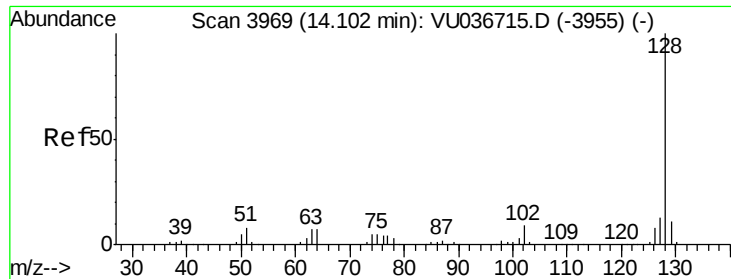
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#70
 1,2,4-trichlorobenzene
 Concen: 1.613 ug/L
 RT: 13.86 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU036721.D
 Acq: 11 Feb 2020 13:32

Tgt Ion:	180	Resp:	2975
Ion	Ratio	Lower	Upper
180	100		
182	93.3	76.1	114.1
145	28.6	25.7	38.5





#71

Naphthalene

Concen: 1.351 ug/L

RT: 14.10 min Scan# 3969

Delta R.T. 0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Instrument :

MSVOA_U

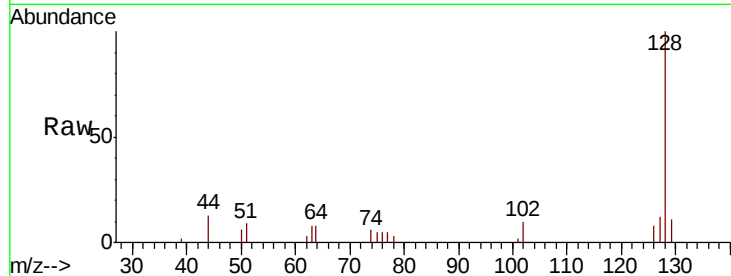
ClientSampleId :

MDL07

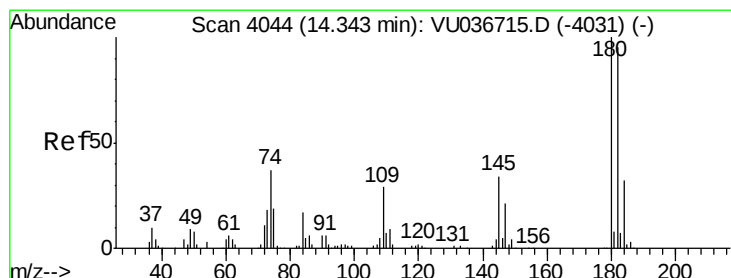
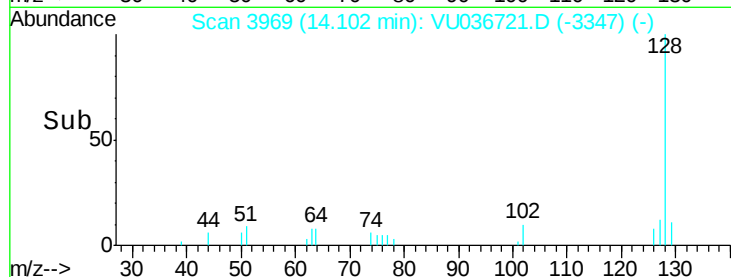
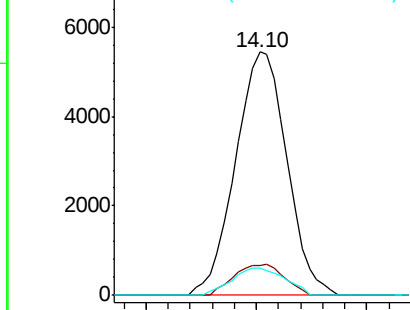
Tot Ion:	128	Resp:	8786
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.6	16.0
129	11.6	8.5	12.7

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



#72

1,2,3-Trichlorobenzene

Concen: 1.573 ug/L

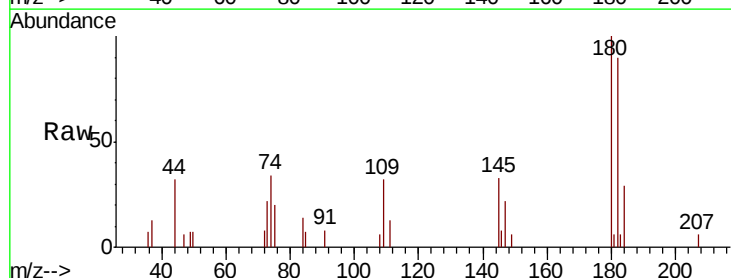
RT: 14.34 min Scan# 4044

Delta R.T. 0.00 min

Lab File: VU036721.D

Acq: 11 Feb 2020 13:32

Tgt Ion:	180	Resp:	2891
Ion	Ratio	Lower	Upper
180	100		
182	98.3	76.8	115.2
145	30.8	27.5	41.3



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

