

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020720\
 Data File : VU036698.D
 Acq On : 07 Feb 2020 13:13
 Operator : JC/MD
 Sample : MDL01
 Misc : 5.00uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 2/10/2020 11:54:14 AM

Quant Time: Feb 07 23:20:16 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	262264	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	246401	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	104578	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	76909	43.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.94%
7) Chloroethane-d5	1.93	69	74755	46.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.18%
11) 1,1-Dichloroethene-d2	2.59	63	112804	34.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.32%
21) 2-Butanone-d5	4.68	46	114693	76.86	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	76.86%
24) Chloroform-d	5.11	84	136595	43.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.30%
26) 1,2-Dichloroethane-d4	5.75	65	105848	48.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.78%
32) Benzene-d6	5.77	84	312872	48.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.60%
36) 1,2-Dichloropropane-d6	6.73	67	106237	49.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.80%
41) Toluene-d8	7.93	98	283527	47.79	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.58%
43) trans-1,3-Dichloropropene-	8.21	79	47819	46.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.88%
47) 2-Hexanone-d5	8.67	63	127238	103.67	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.67%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	152603	48.15	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.30%
66) 1,2-Dichlorobenzene-d4	12.21	152	96329	50.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	4132	2.280	ug/L	98
3) Chloromethane	1.54	50	4992	2.325	ug/L	94
5) Vinyl chloride	1.62	62	5469	2.365	ug/L #	50
6) Bromomethane	1.87	94	3435	2.369	ug/L	98
8) Chloroethane	1.95	64	3263	2.224	ug/L	84
9) Trichlorofluoromethane	2.16	101	6460	2.351	ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	4610	2.801	ug/L	88
12) 1,1-Dichloroethene	2.61	96	4222	2.635	ug/L #	1
13) Acetone	2.66	43	10172	6.417	ug/L	95
14) Carbon disulfide	2.82	76	11104	2.319	ug/L	98
15) Methyl Acetate	2.99	43	5526	2.411	ug/L	94
16) Methylene chloride	3.09	84	4893	2.475	ug/L	87
17) trans-1,2-Dichloroethene	3.39	96	4041	2.371	ug/L	91
18) Methyl tert-butyl Ether	3.41	73	14037	2.373	ug/L	97
19) 1,1-Dichloroethane	3.92	63	8076	2.378	ug/L	98
20) cis-1,2-Dichloroethene	4.72	96	4679	2.409	ug/L	89
22) 2-Butanone	4.76	43	15463	8.219	ug/L	83

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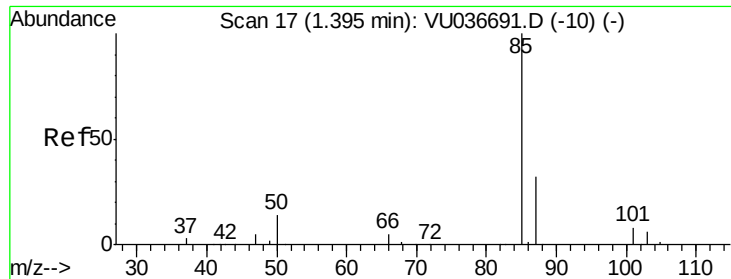
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	1909	2.097	ug/L	93
25) Chloroform	5.14	83	20350	6.161	ug/L	97
27) 1,2-Dichloroethane	5.84	62	6874	2.475	ug/L	98
29) Cyclohexane	5.43	56	6977	2.204	ug/L	96
30) 1,1,1-Trichloroethane	5.36	97	6135	2.344	ug/L	99
31) Carbon tetrachloride	5.57	117	4880	2.303	ug/L	100
33) Benzene	5.82	78	18270	2.451	ug/L	100
34) Trichloroethene	6.58	95	4264	2.314	ug/L	95
35) Methylcyclohexane	6.80	83	7869	2.425	ug/L	97
37) 1,2-Dichloropropane	6.83	63	4862	2.419	ug/L #	95
38) Bromodichloromethane	7.14	83	5486	2.246	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	7204	2.244	ug/L	94
40) 4-Methyl-2-pentanone	7.83	43	14503	4.568	ug/L	98
42) Toluene	8.00	91	19957	2.478	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	6623m	2.361	ug/L	
45) 1,1,2-Trichloroethane	8.43	97	4145	2.261	ug/L	96
46) Tetrachloroethene	8.58	164	3198	2.473	ug/L	91
48) 2-Hexanone	8.72	43	12863	4.966	ug/L	99
49) Dibromochloromethane	8.84	129	3795	2.116	ug/L	98
50) 1,2-Dibromoethane	8.95	107	4424	2.297	ug/L #	93
51) Chlorobenzene	9.47	112	11672	2.407	ug/L	96
52) Ethylbenzene	9.60	91	20329	2.297	ug/L	99
53) m,p-Xylene	9.72	106	7369	2.257	ug/L	96
54) o-xylene	10.13	106	7037	2.176	ug/L	96
55) Styrene	10.14	104	11157	2.070	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.81	83	7758	2.348	ug/L	95
59) Bromoform	10.32	173	2452	2.122	ug/L #	92
60) 1,2,3-Trichloropropane	10.85	75	6484	2.636	ug/L	96
61) Isopropylbenzene	10.51	105	18009	2.313	ug/L	96
62) 1,3,5-Trimethylbenzene	11.11	105	15020	2.250	ug/L	98
63) 1,2,4-Trimethylbenzene	11.49	105	14795	2.219	ug/L	99
64) 1,3-Dichlorobenzene	11.77	146	7720	2.357	ug/L	95
65) 1,4-Dichlorobenzene	11.86	146	7971	2.418	ug/L	93
67) 1,2-Dichlorobenzene	12.24	146	8154	2.459	ug/L	96
68) 1,2-Dibromo-3-chloropropan	13.01	75	1425	2.027	ug/L	89
69) 1,3,5-Trichlorobenzene	13.24	180	4636	2.042	ug/L	97
70) 1,2,4-trichlorobenzene	13.86	180	3410	1.801	ug/L	94
71) Naphthalene	14.10	128	10081	1.510	ug/L	98
72) 1,2,3-Trichlorobenzene	14.35	180	3336	1.768	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 2.280 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036698.D

Acq: 07 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 85 Resp: 4132

Ion Ratio Lower Upper

85 100

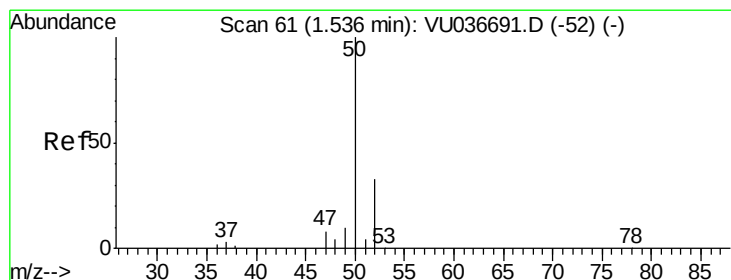
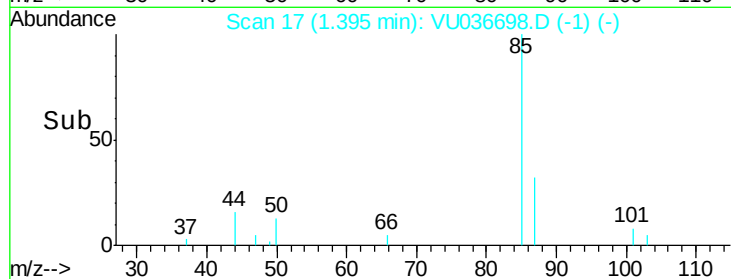
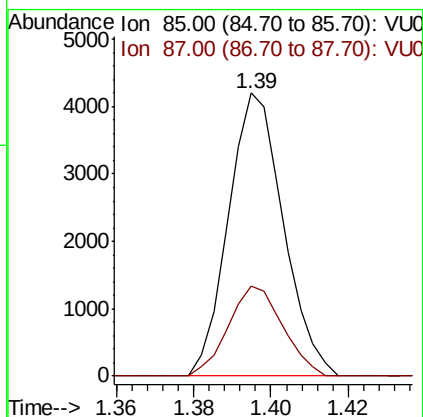
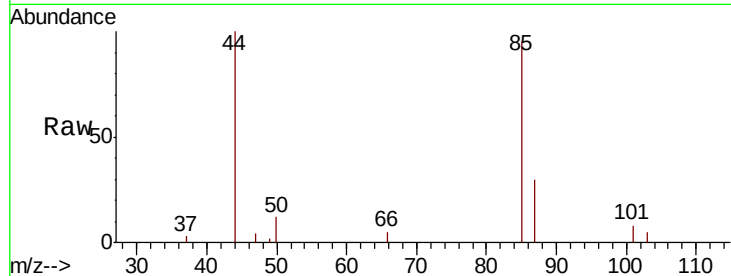
87 31.4 25.9 38.9

Manual Integrations

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#3

Chloromethane

Concen: 2.325 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036698.D

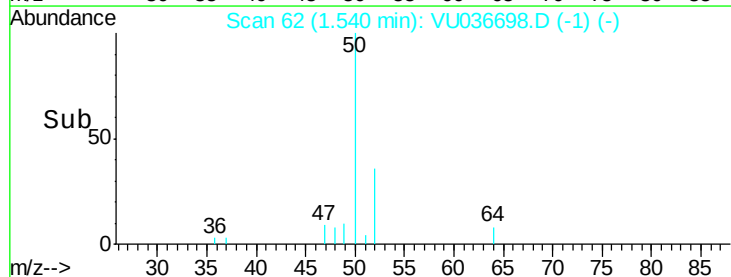
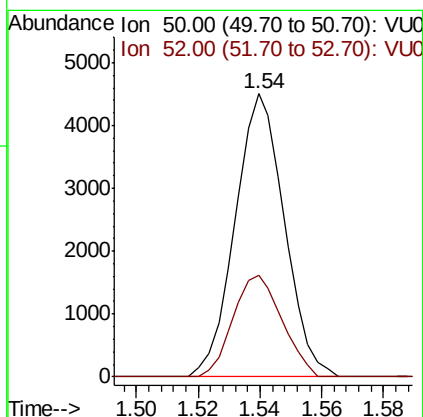
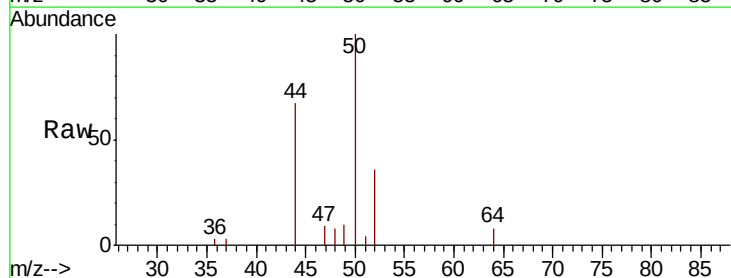
Acq: 07 Feb 2020 13:13

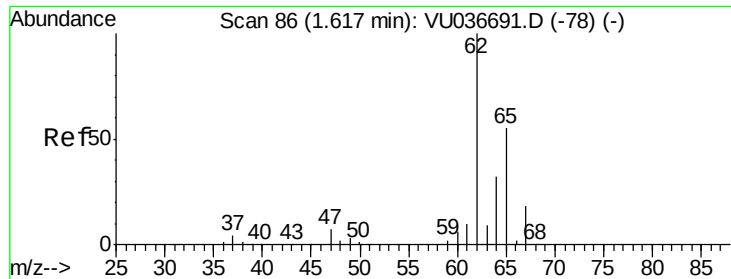
Tgt Ion: 50 Resp: 4992

Ion Ratio Lower Upper

50 100

52 35.8 22.9 42.5





#5

Vinyl chloride

Concen: 2.365 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036698.D

Acq: 07 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 62 Resp: 5469

Ion Ratio Lower Upper

62 100

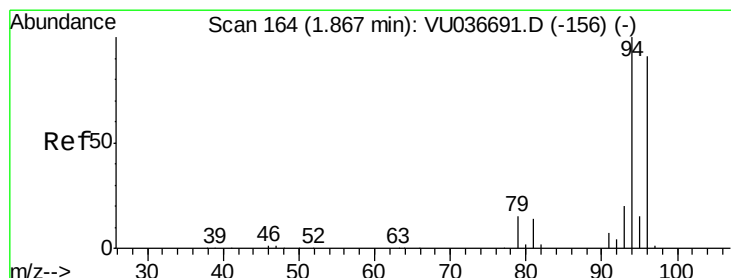
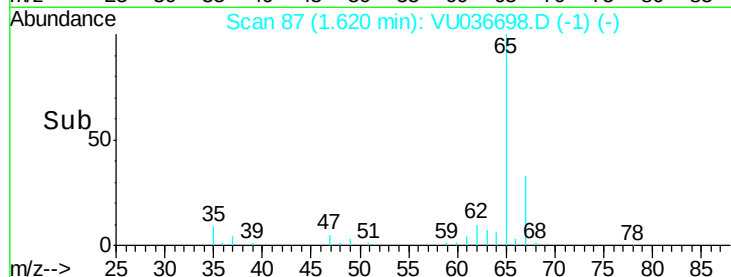
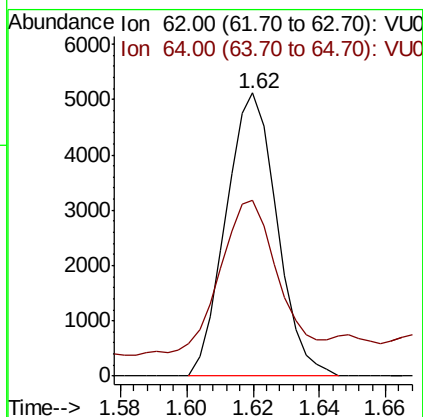
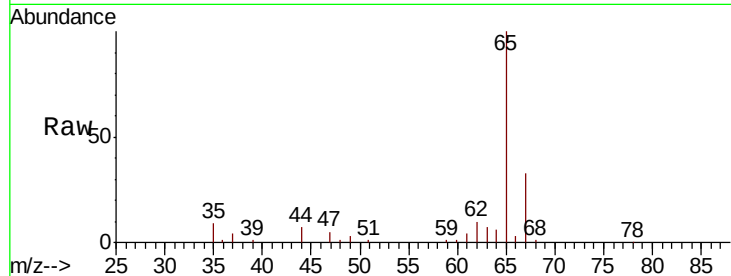
64 62.0 23.4 43.6#

Manual Integrations

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2/10/2020 11:54:14 AM



#6

Bromomethane

Concen: 2.369 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU036698.D

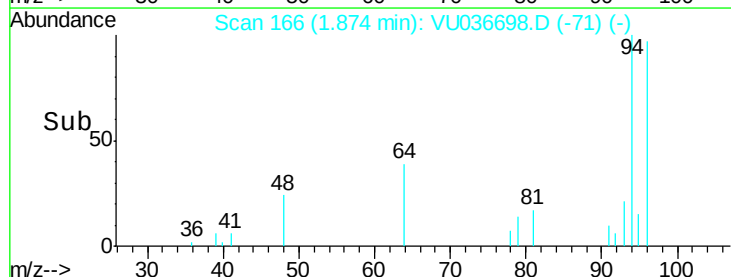
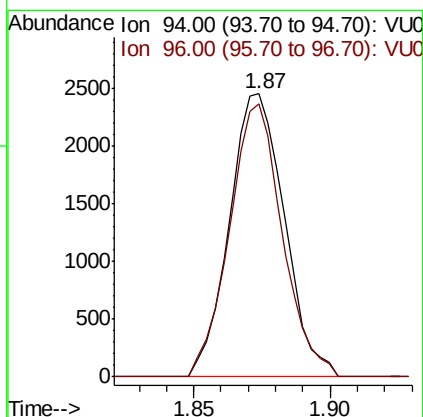
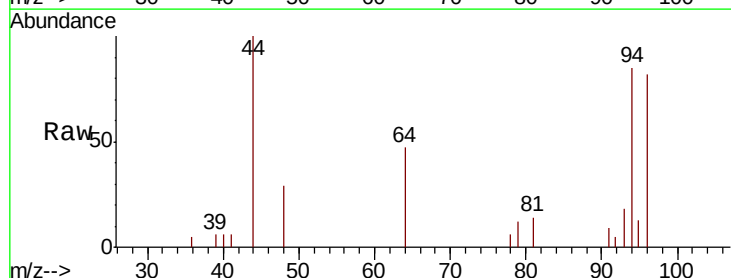
Acq: 07 Feb 2020 13:13

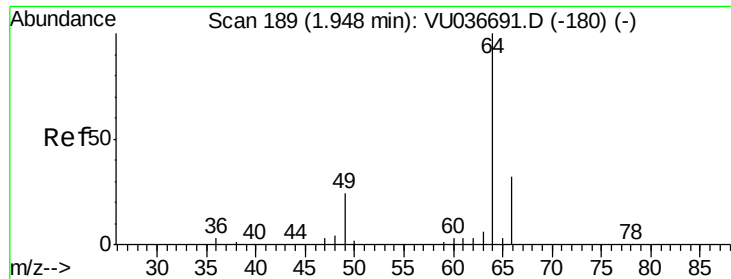
Tgt Ion: 94 Resp: 3435

Ion Ratio Lower Upper

94 100

96 96.7 66.3 123.1





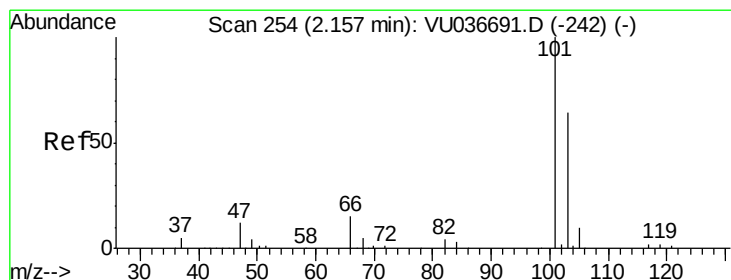
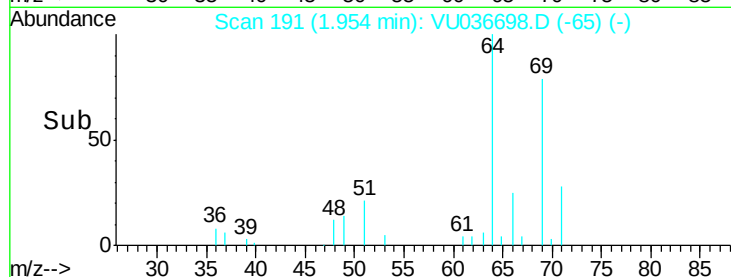
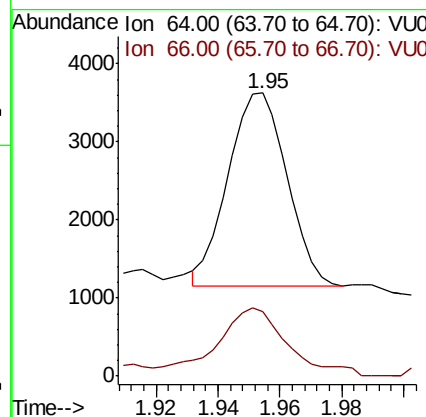
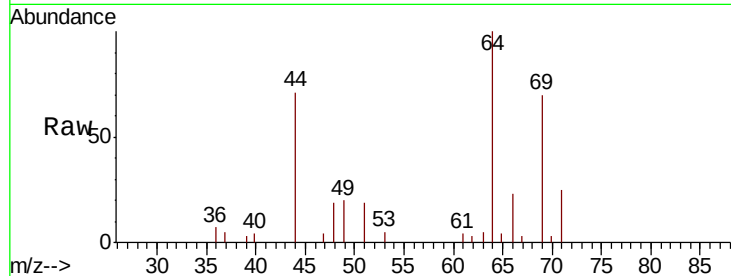
#8
Chloroethane
Concen: 2.224 ug/L
RT: 1.95 min Scan# 191
Delta R.T. 0.01 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion: 64 Resp: 3263
Ion Ratio Lower Upper
64 100
66 22.7 22.1 41.1

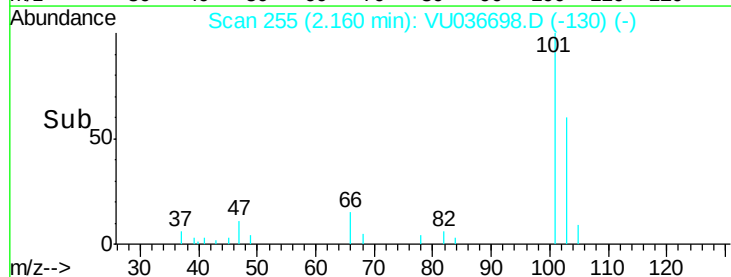
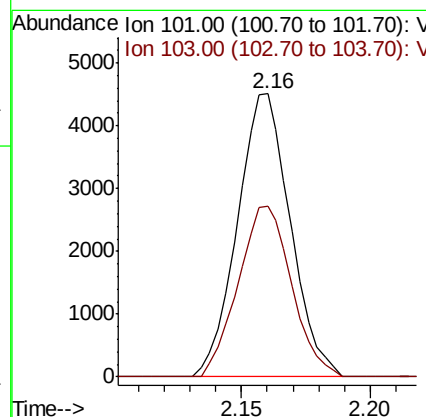
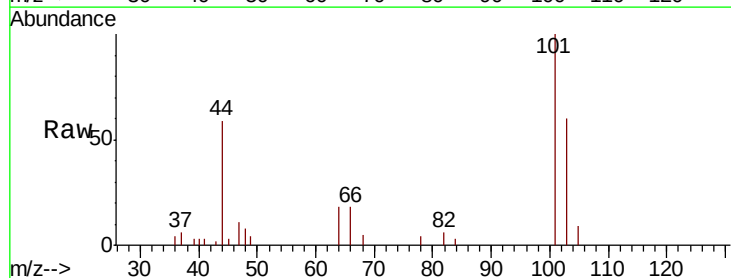
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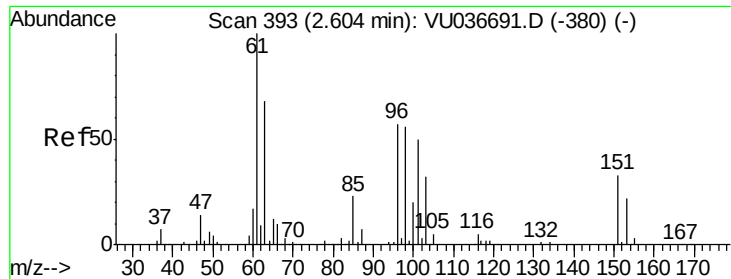
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2/10/2020 11:54:14 AM



#9
Trichlorofluoromethane
Concen: 2.351 ug/L
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Tgt Ion: 101 Resp: 6460
Ion Ratio Lower Upper
101 100
103 60.9 51.6 77.4





#10

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

Concen: 2.801 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036698.D

Acq: 07 Feb 2020 13:13

Instrument :

MSVOA_U

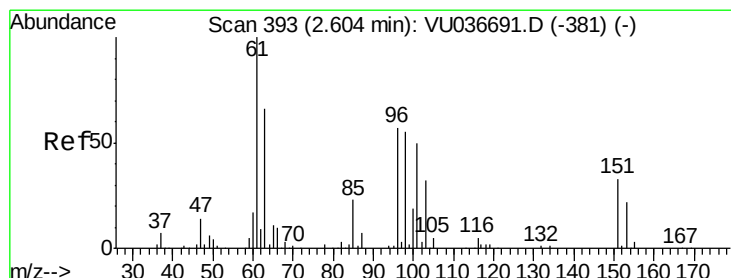
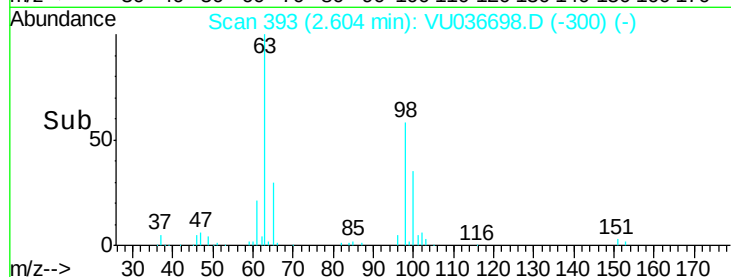
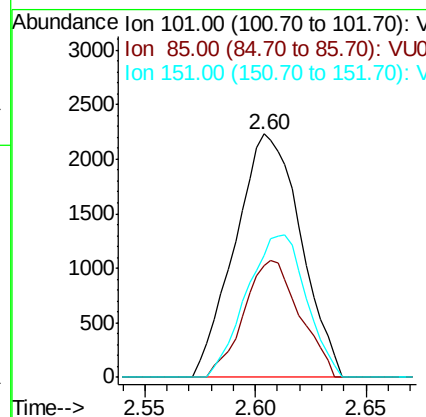
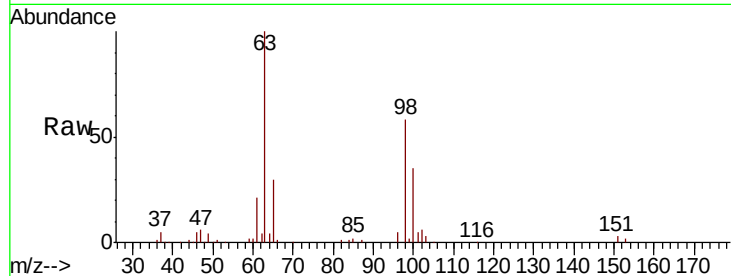
ClientSampled :

MDL01

Tot Ion:	101	Resp:	4610
Ion Ratio	Lower	Upper	
101	100		
85	40.8	36.5	54.7
151	53.2	52.6	78.8

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#12

1,1-Dichloroethene

Concen: 2.635 ug/L

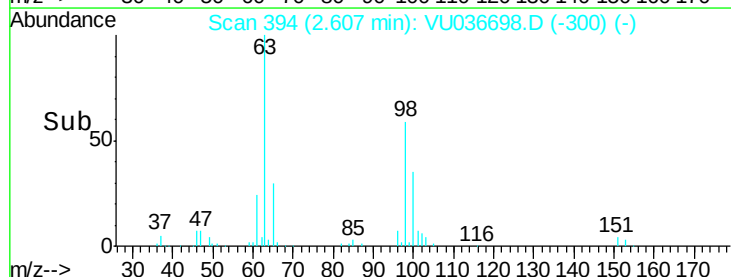
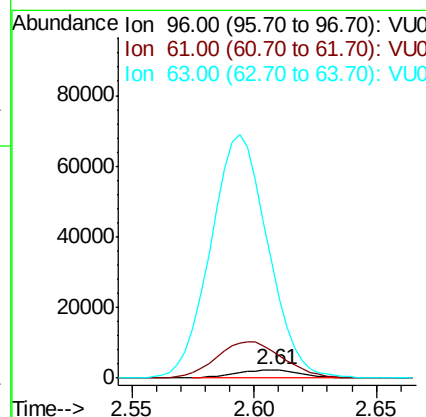
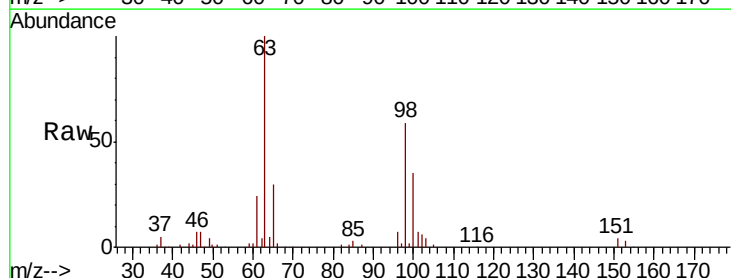
RT: 2.61 min Scan# 394

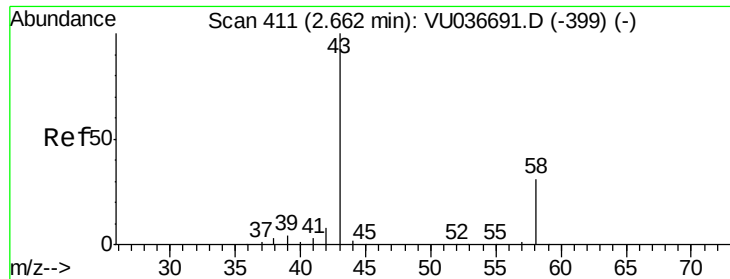
Delta R.T. 0.00 min

Lab File: VU036698.D

Acq: 07 Feb 2020 13:13

Tgt Ion:	96	Resp:	4222
Ion Ratio	Lower	Upper	
96	100		
61	337.6	124.4	231.0#
63	1407.1	83.4	155.0#





#13

Acetone

Concen: 6.417 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.00 min

Lab File: VU036698.D

Acq: 07 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 43 Resp: 10172

Ion Ratio Lower Upper

43 100

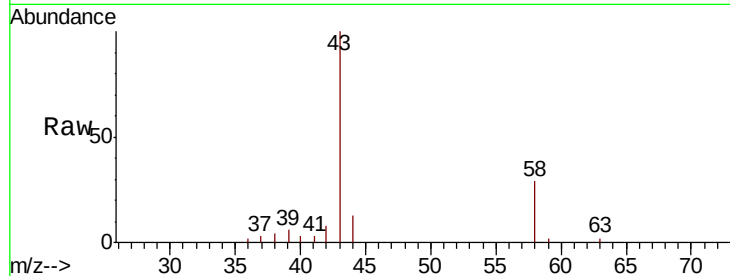
58 29.3 0.0 64.0

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU036698.D (-318) (-)

Ion 58.00 (57.70 to 58.70): VU036698.D (-318) (-)

6000

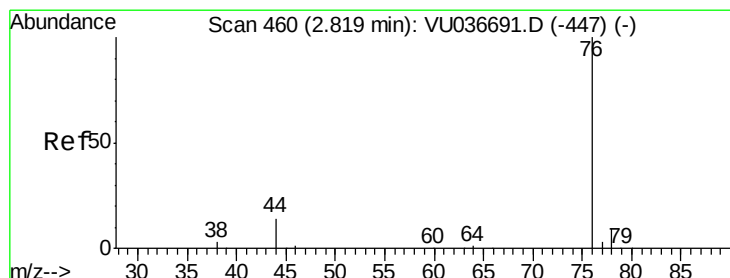
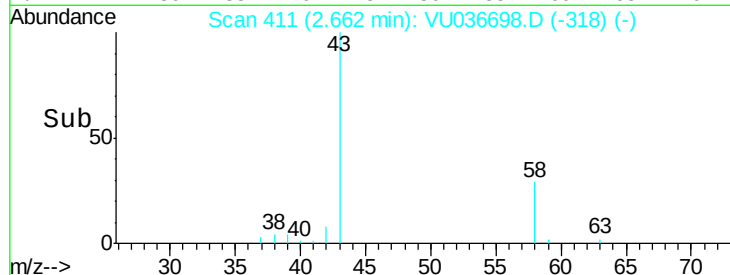
4000

2000

0

Time-->

2.60 2.65 2.70



#14

Carbon disulfide

Concen: 2.319 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036698.D

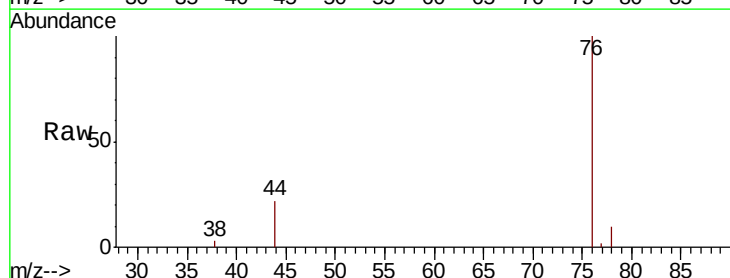
Acq: 07 Feb 2020 13:13

Tgt Ion: 76 Resp: 11104

Ion Ratio Lower Upper

76 100

78 9.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU036698.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU036698.D (-367) (-)

6000

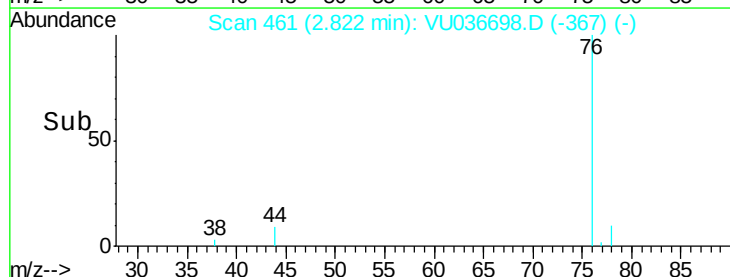
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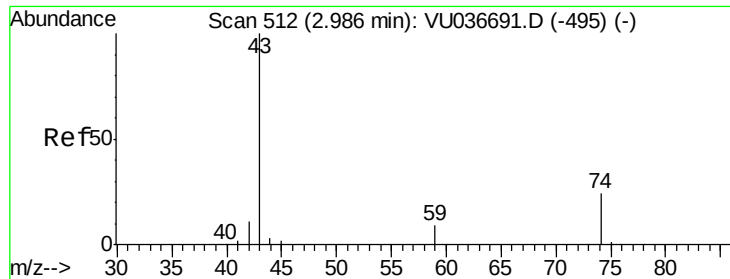
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Time-->

2.80 2.85





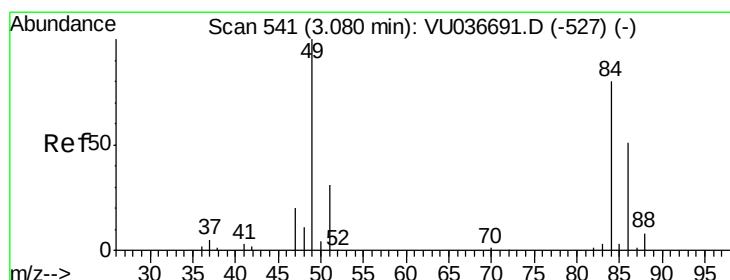
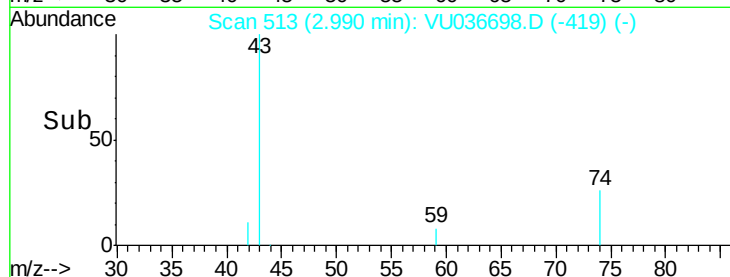
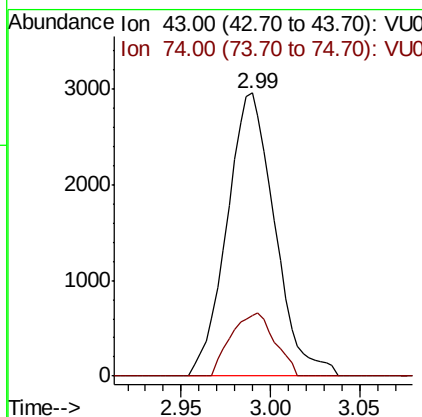
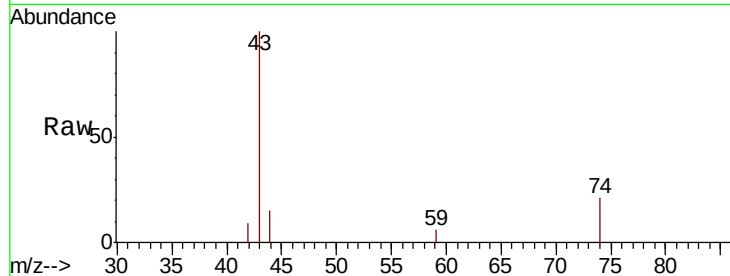
#15
Methvl Acetate
Concen: 2.411 ug/L
RT: 2.99 min Scan# 513
Delta R.T. 0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion: 43 Resp: 5526
Ion Ratio Lower Upper
43 100
74 20.3 18.7 28.1

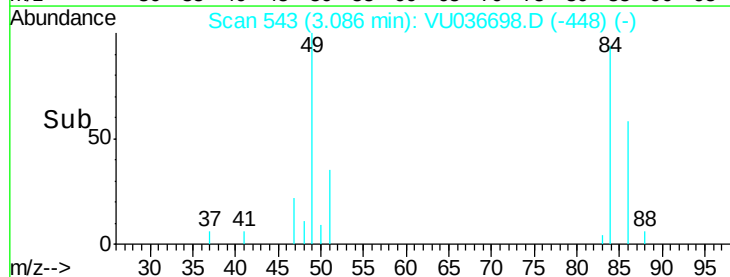
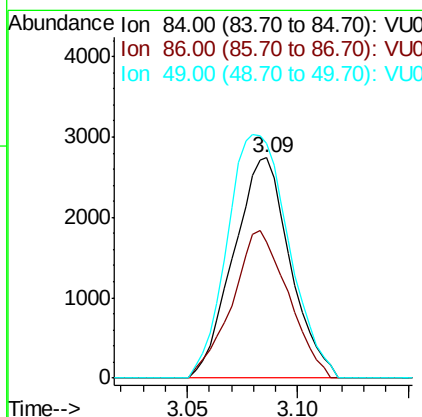
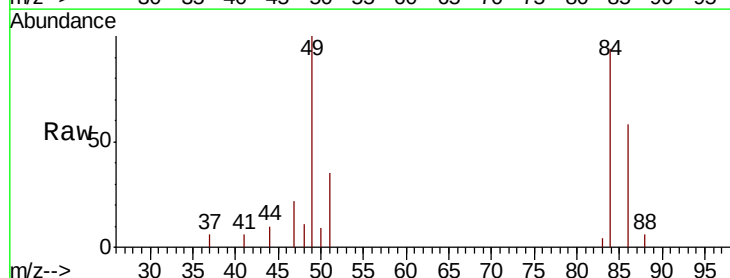
Manual Integrations
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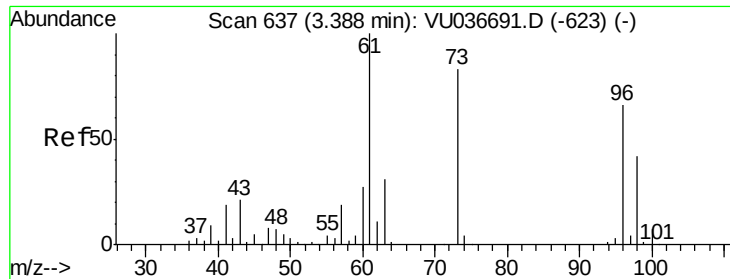
MMDadoda
2/10/2020 11:54:14 AM



#16
Methylene chloride
Concen: 2.475 ug/L
RT: 3.09 min Scan# 543
Delta R.T. 0.01 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Tgt Ion: 84 Resp: 4893
Ion Ratio Lower Upper
84 100
86 62.0 44.4 82.5
49 106.3 89.2 165.8





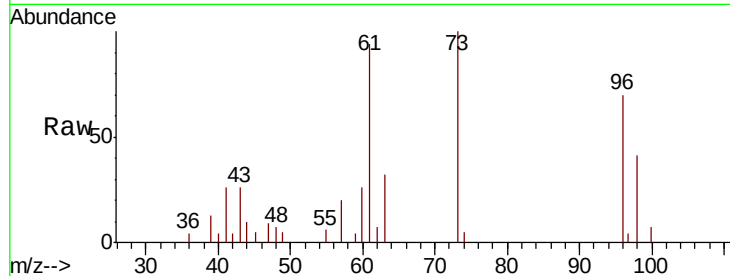
#17
trans-1,2-Dichloroethene
Concen: 2.371 ug/L
RT: 3.39 min Scan# 639
Delta R.T. 0.01 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.3	103.4	192.0
98	58.1	45.4	84.2

Manual Integrations
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MMDadoda
2/10/2020 11:54:14 AM

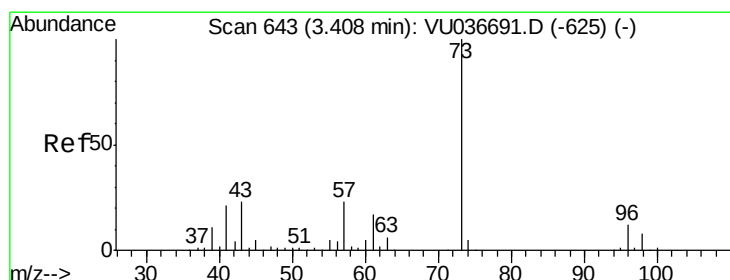
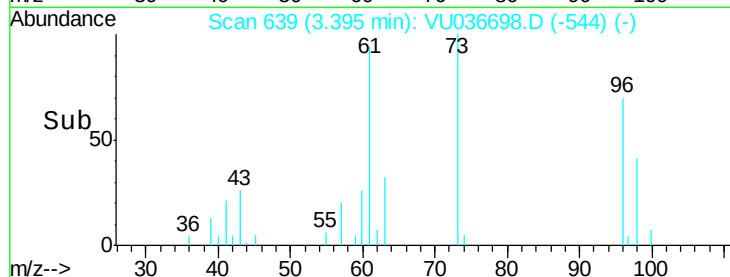
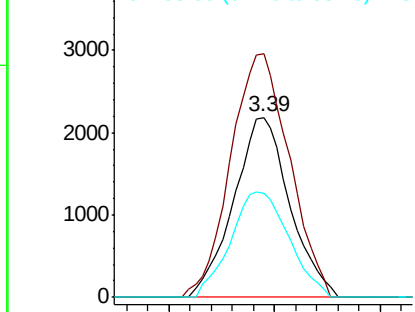


Abundance

Ion 96.00 (95.70 to 96.70): VU036698.D (-544) (-)

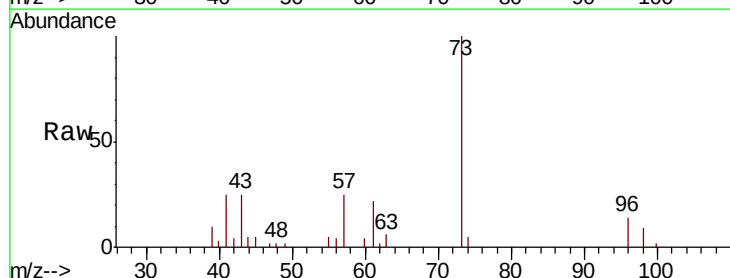
Ion 61.00 (60.70 to 61.70): VU036698.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU036698.D (-544) (-)



#18
Methyl tert-butyl Ether
Concen: 2.373 ug/L
RT: 3.41 min Scan# 644
Delta R.T. 0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
73	100		
43	24.3	18.6	28.0
57	21.3	18.3	27.5

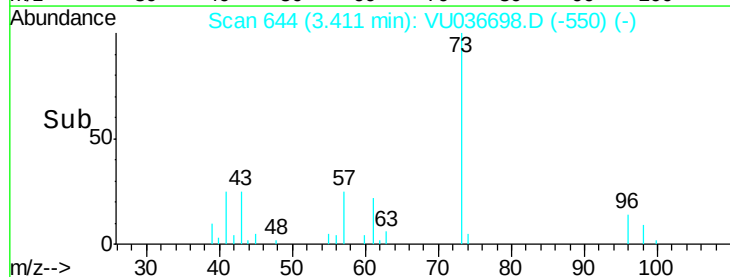
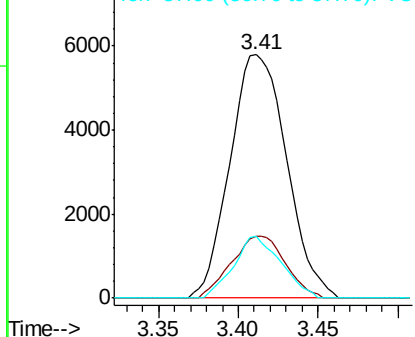


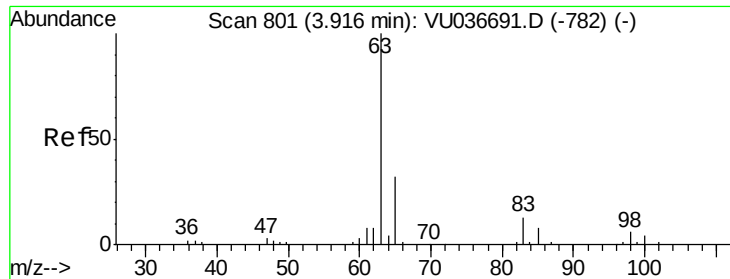
Abundance

Ion 73.00 (72.70 to 73.70): VU036698.D (-550) (-)

Ion 43.00 (42.70 to 43.70): VU036698.D (-550) (-)

Ion 57.00 (56.70 to 57.70): VU036698.D (-550) (-)





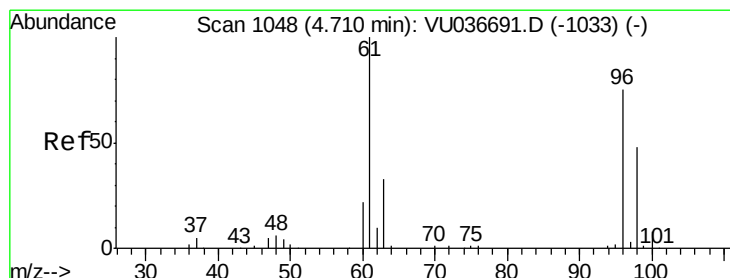
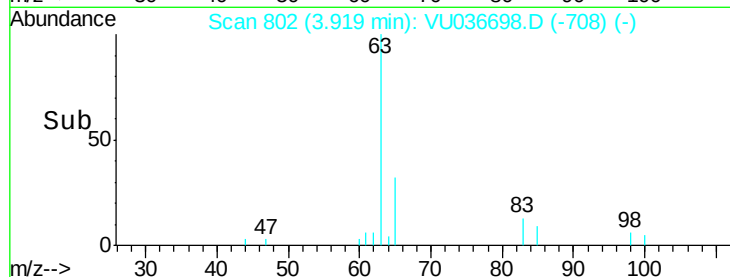
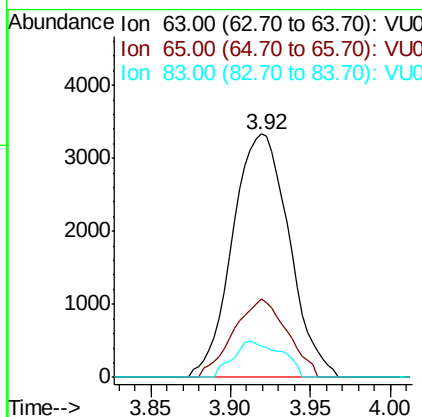
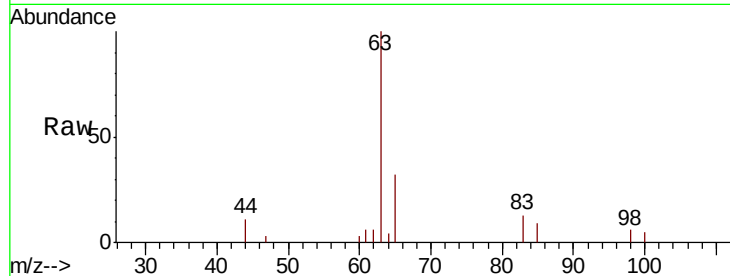
#19
 1,1-Dichloroethane
 Concen: 2.378 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion:	63	Resp:	8076
Ion	Ratio	Lower	Upper
63	100		
65	32.1	22.0	40.8
83	12.9	10.1	18.7

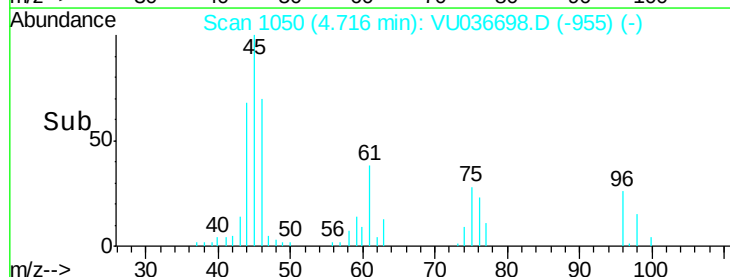
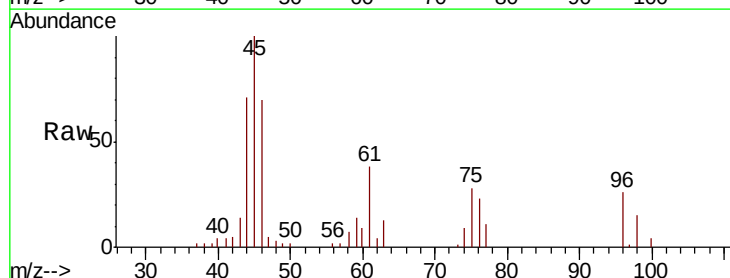
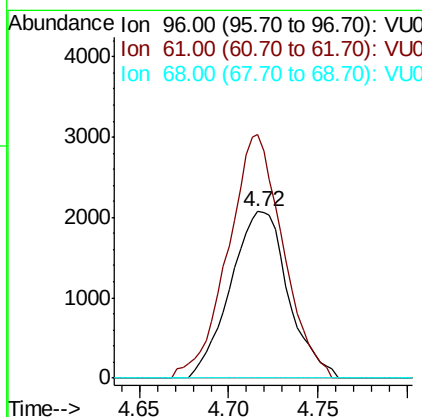
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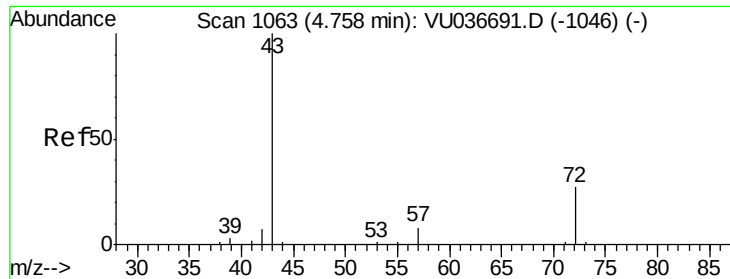
MMDadoda
 2/10/2020 11:54:14 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.409 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. 0.01 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Tgt Ion:	96	Resp:	4679
Ion	Ratio	Lower	Upper
96	100		
61	146.2	93.3	173.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 8.219 ug/L

RT: 4.76 min Scan# 1064

Delta R.T. 0.00 min

Lab File: VU036698.D

Acq: 07 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 43 Resp: 15463

Ion Ratio Lower Upper

43 100

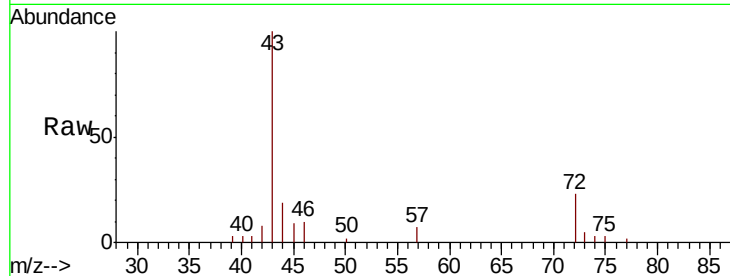
72 18.1 13.6 40.7

Manual Integrations

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MMDadoda

2/10/2020 11:54:14 AM

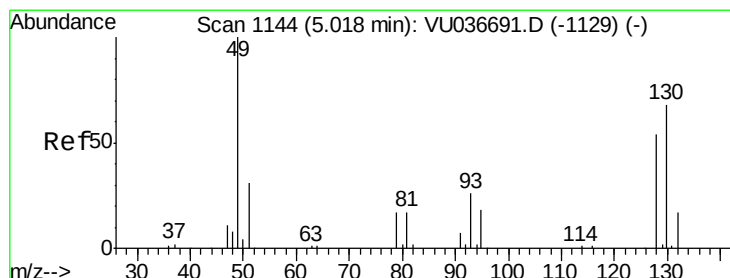
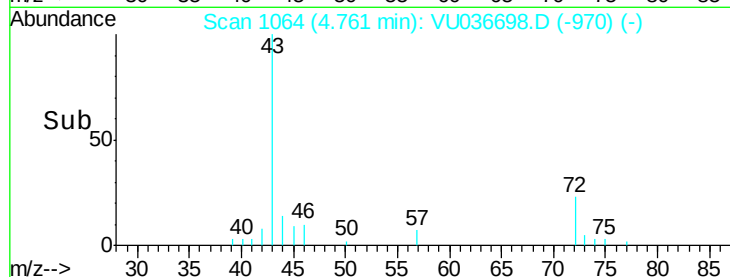


Abundance Ion 43.00 (42.70 to 43.70): VU036698.D (-970) (-)

Ion 72.00 (71.70 to 72.70): VU036698.D (-970) (-)

4.76

Time-->



#23

Bromochloromethane

Concen: 2.097 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VU036698.D

Acq: 07 Feb 2020 13:13

Tgt Ion:128 Resp: 1909

Ion Ratio Lower Upper

128 100

49 187.9 127.3 236.5

130 142.3 88.5 164.3

51 58.1 44.4 66.6

Abundance Ion 128.00 (127.70 to 128.70): VU036698.D (-1051) (-)

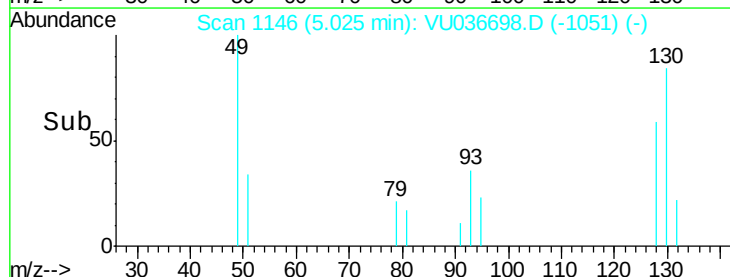
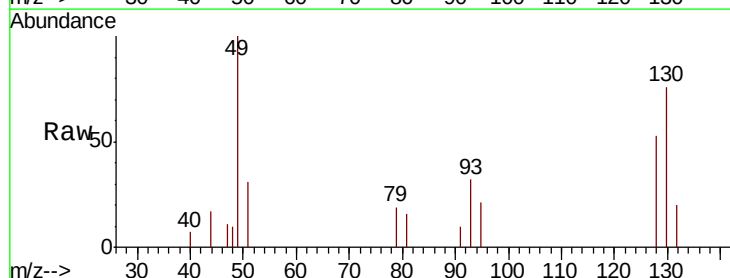
Ion 49.00 (48.70 to 49.70): VU036698.D (-1051) (-)

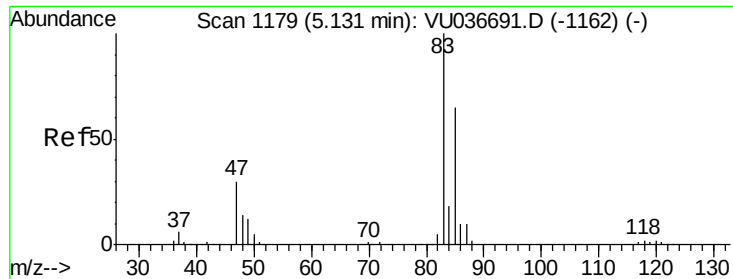
Ion 130.00 (129.70 to 130.70): VU036698.D (-1051) (-)

Ion 51.00 (50.70 to 51.70): VU036698.D (-1051) (-)

5.02

Time-->





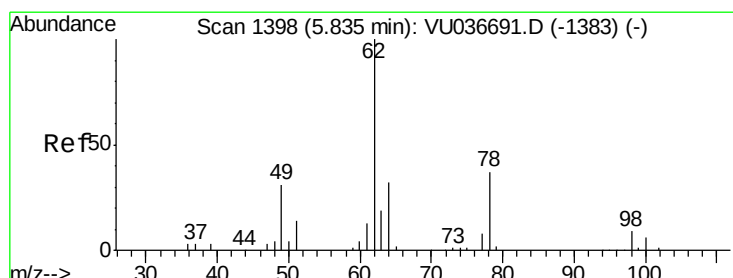
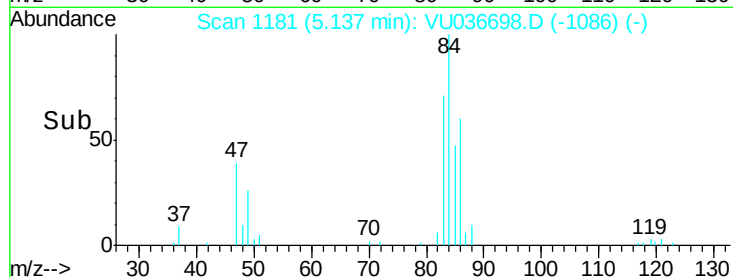
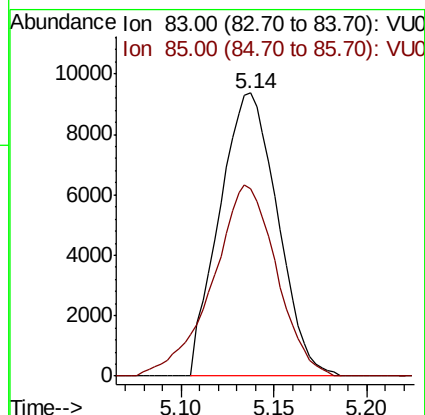
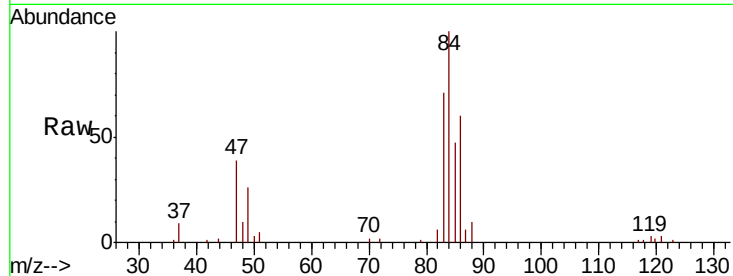
#25
Chloroform
Concen: 6.161 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	83	85	Resp	Lower	Upper
20350	100	66.4		44.6	82.8

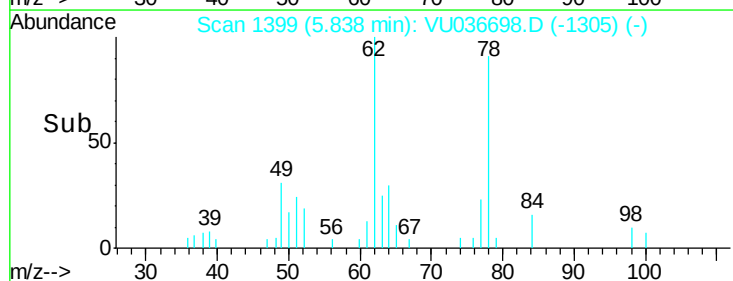
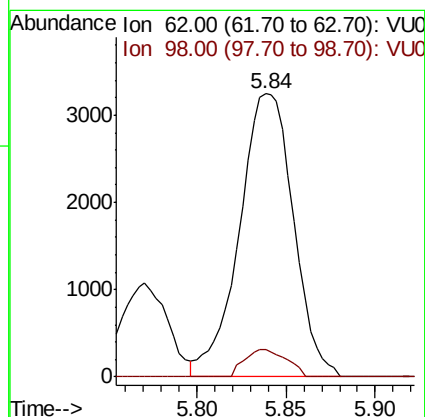
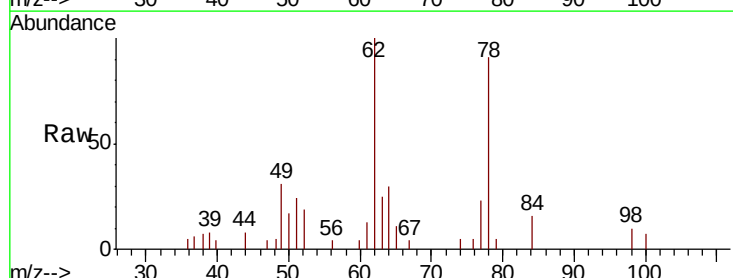
Manual Integrations
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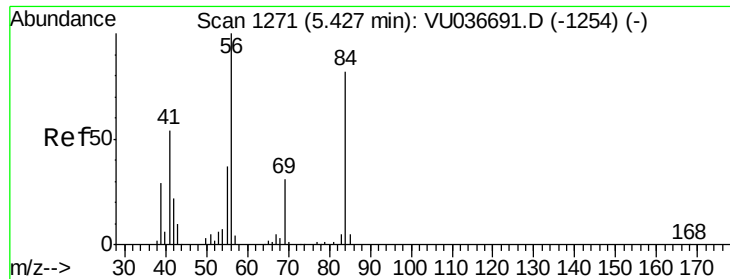
MMDadoda
2/10/2020 11:54:14 AM



#27
1,2-Dichloroethane
Concen: 2.475 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Tgt Ion	62	98	Resp	Lower	Upper
6874	100	9.6		7.0	10.4





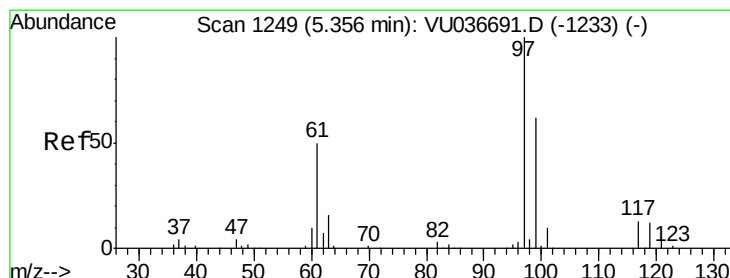
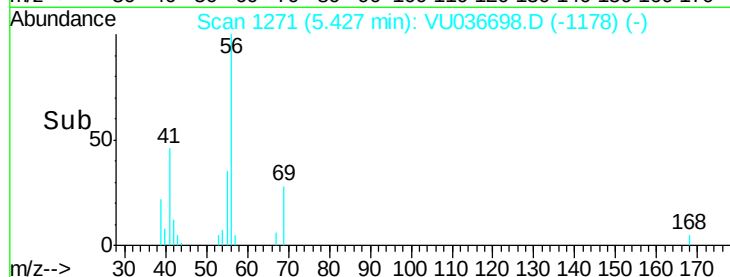
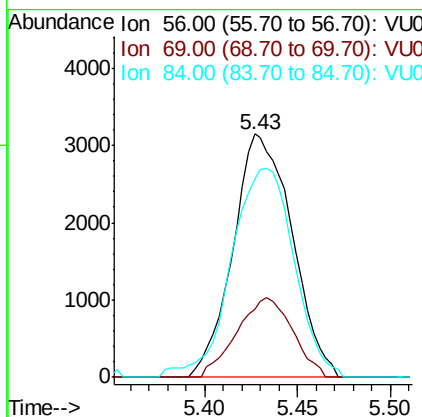
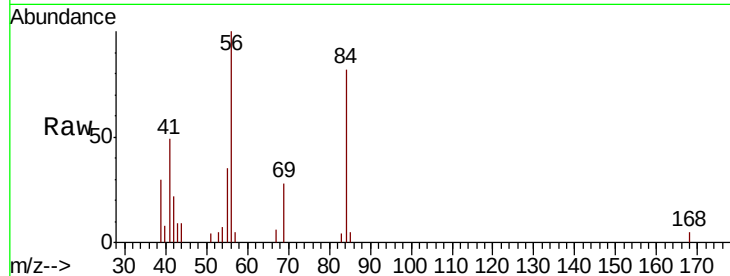
#29
Cyclohexane
Concen: 2.204 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.0	25.0	37.4
84	90.6	68.2	102.2

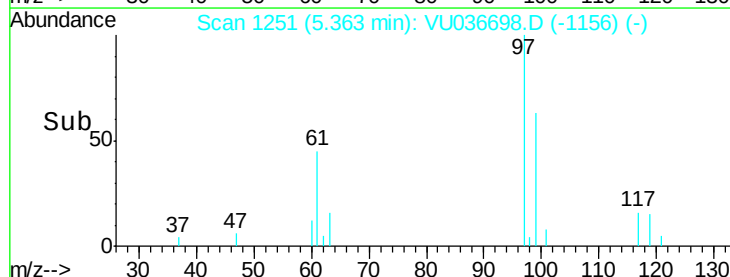
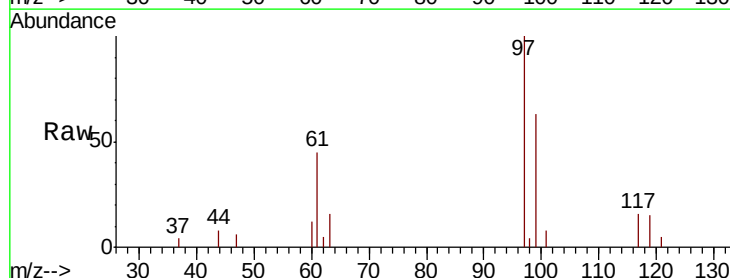
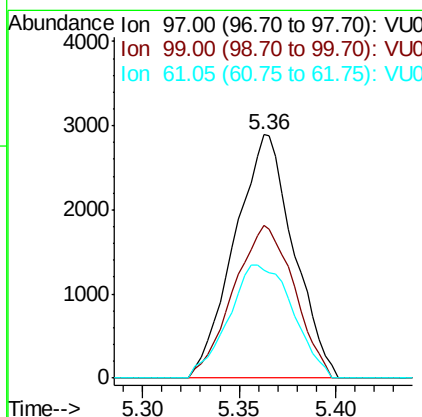
Manual Integrations
APPROVED

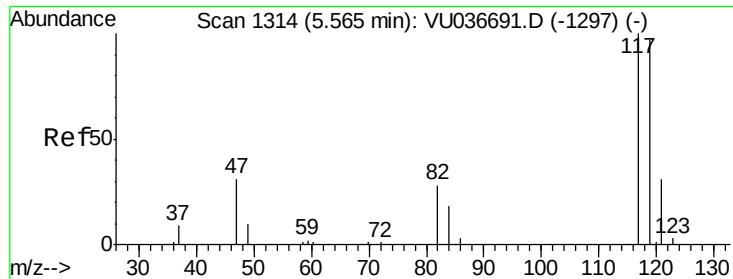
MMDadoda
2/10/2020 11:54:14 AM



#30
1,1,1-Trichloroethane
Concen: 2.344 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.01 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	50.9	76.3
61	50.5	40.2	60.2





#31

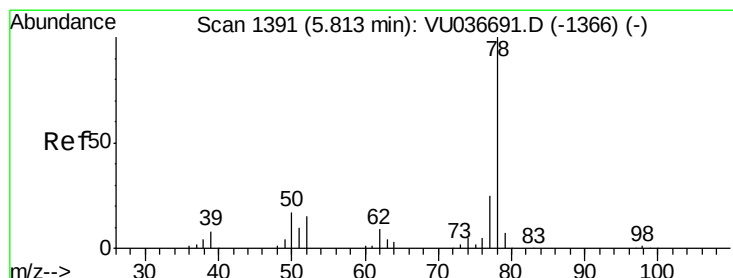
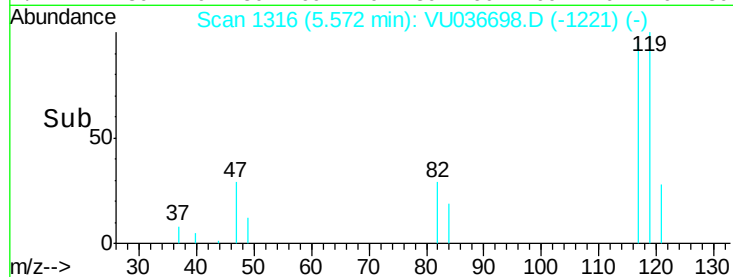
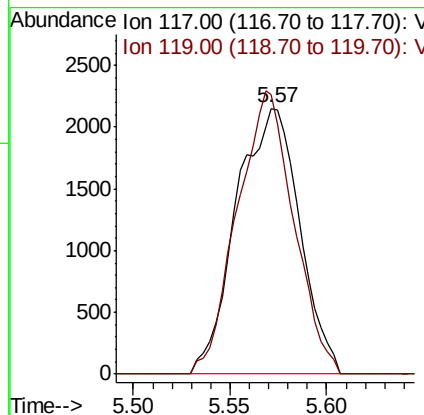
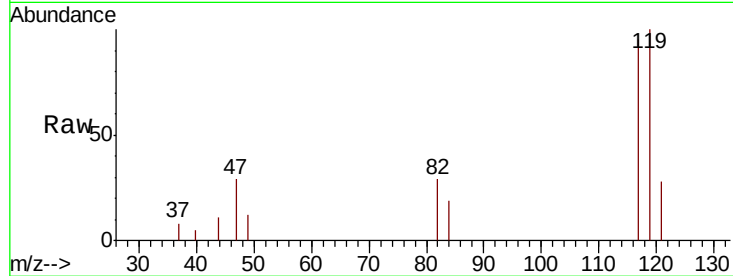
Carbon tetrachloride
Concen: 2.303 ug/L
RT: 5.57 min Scan# 1316
Delta R.T. 0.01 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion:117 Resp: 4880
Ion Ratio Lower Upper
117 100
119 95.3 76.2 114.4

Manual Integrations
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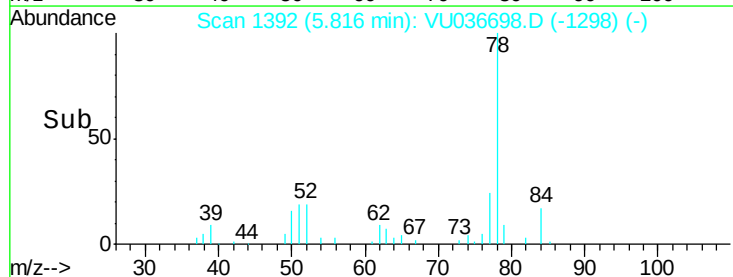
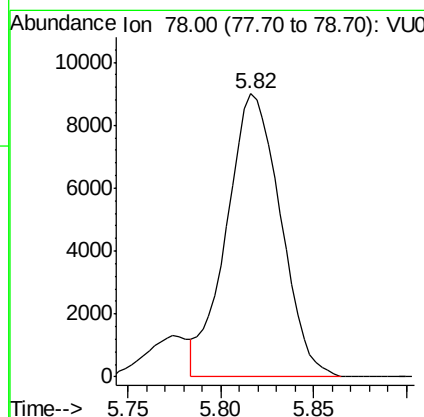
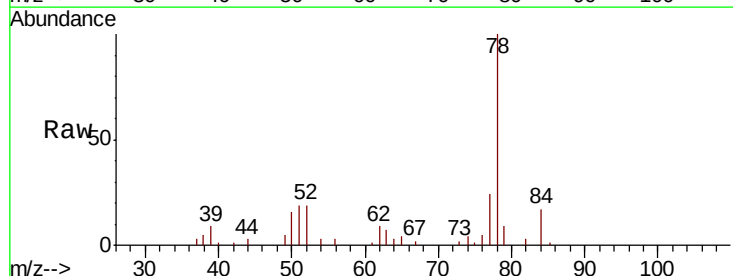
MMDadoda
2/10/2020 11:54:14 AM

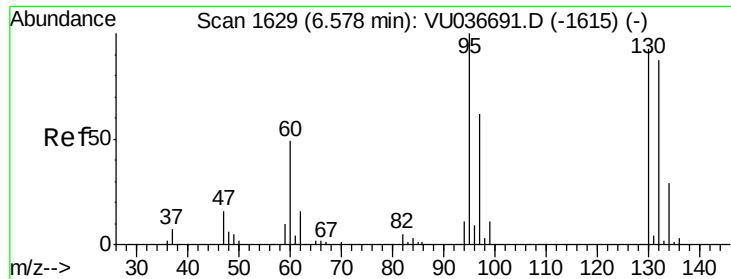


#33

Benzene
Concen: 2.451 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Tgt Ion: 78 Resp: 18270





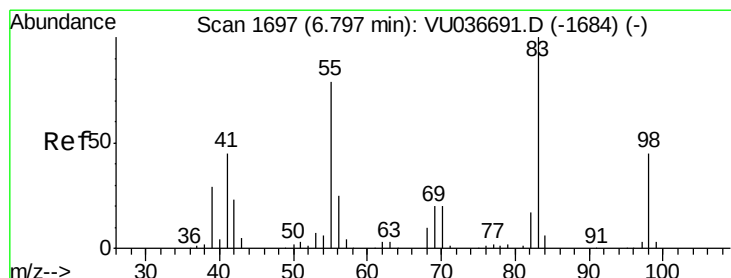
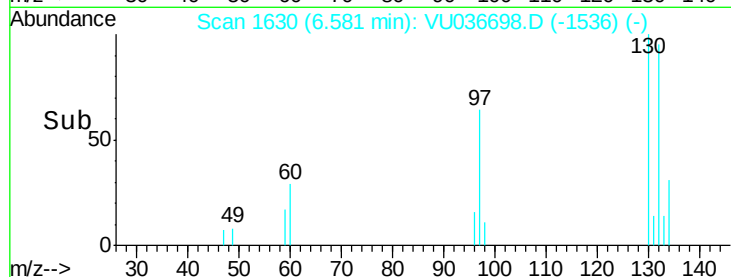
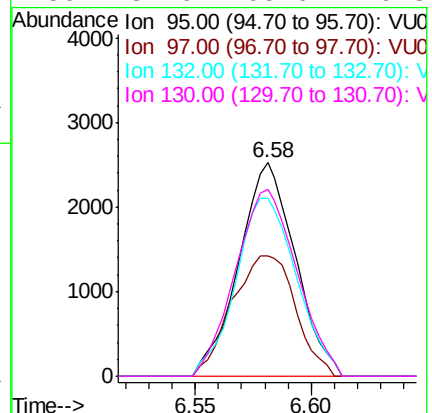
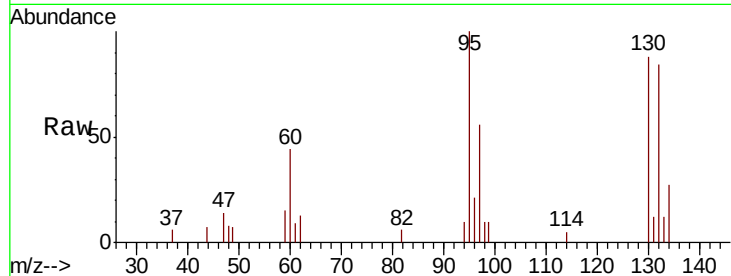
#34
 Trichloroethene
 Concen: 2.314 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
95	100		
97	56.2	44.5	82.7
132	83.5	59.6	110.8
130	87.6	65.0	120.8

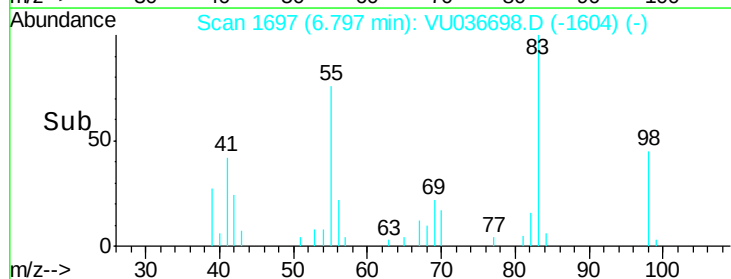
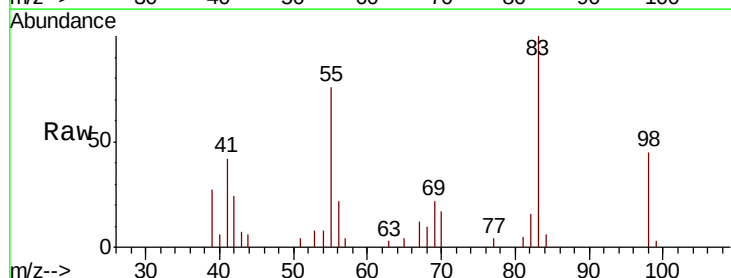
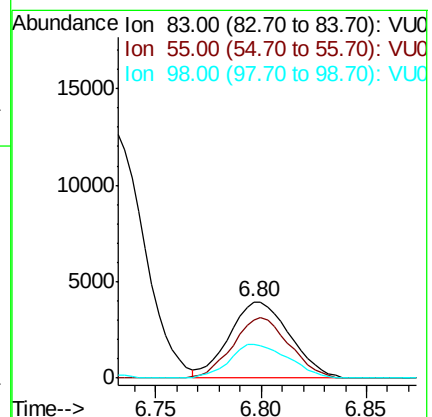
Manual Integrations
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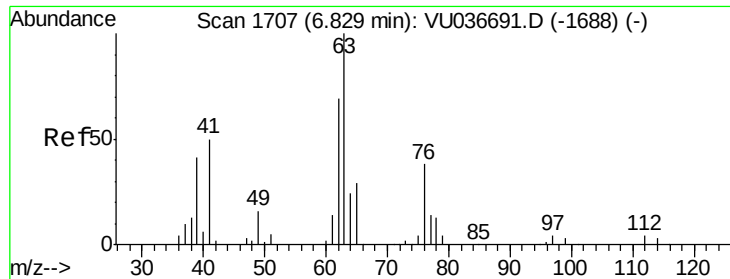
MMDadoda
 2/10/2020 11:54:14 AM



#35
 Methylcyclohexane
 Concen: 2.425 ug/L
 RT: 6.80 min Scan# 1697
 Delta R.T. -0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
83	100		
55	73.4	61.2	91.8
98	43.0	35.4	53.0





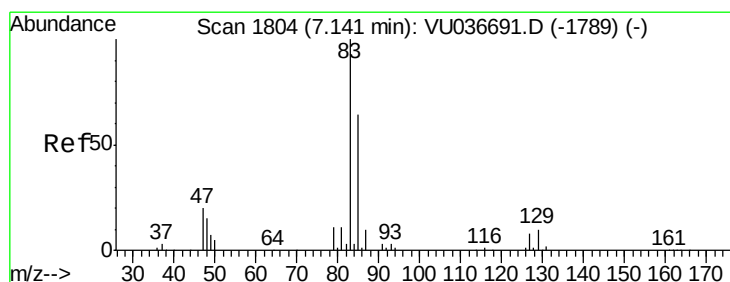
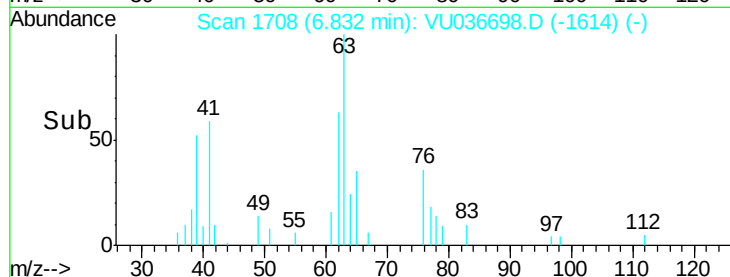
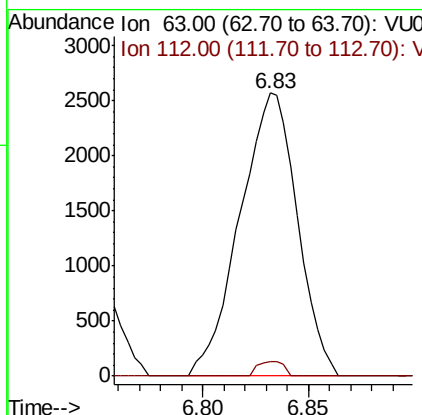
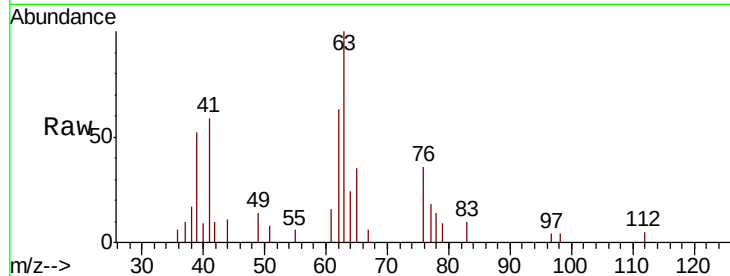
#37
 1,2-Dichloropropane
 Concen: 2.419 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion: 63 Resp: 4862
 Ion Ratio Lower Upper
 63 100
 112 2.4 3.1 4.7#

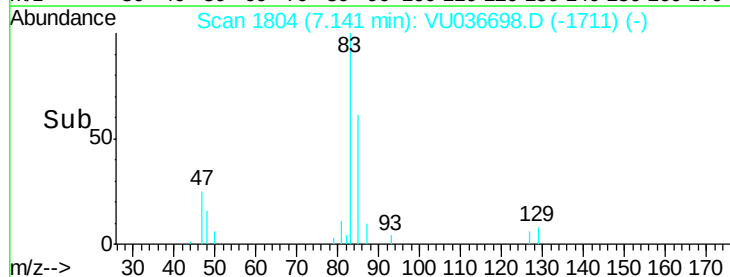
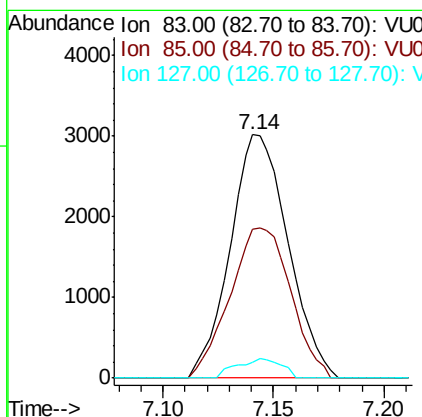
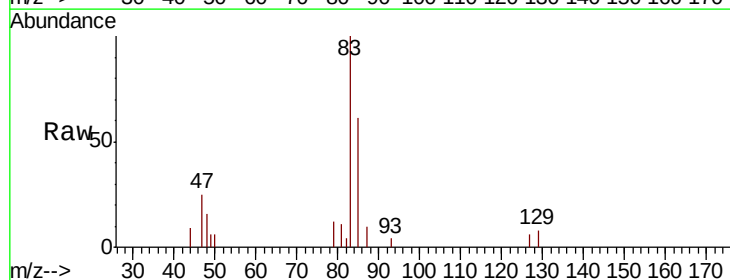
Manual Integrations
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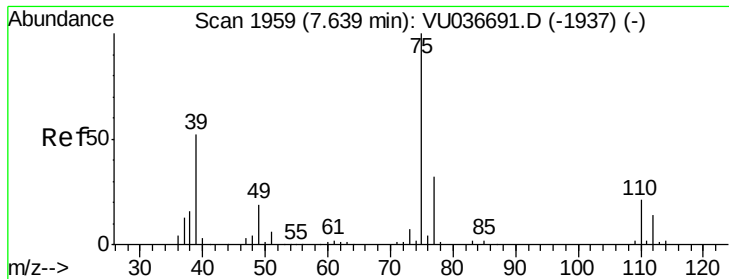
MMDadoda
 2/10/2020 11:54:14 AM



#38
 Bromodichloromethane
 Concen: 2.246 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Tgt Ion: 83 Resp: 5486
 Ion Ratio Lower Upper
 83 100
 85 60.9 43.9 81.5
 127 6.5 6.0 9.0





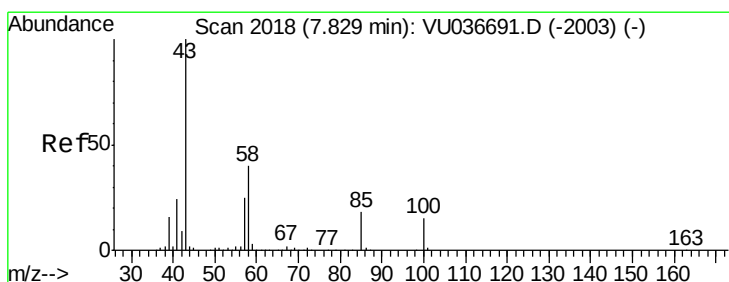
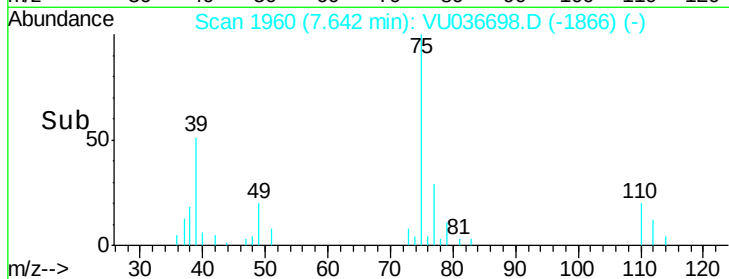
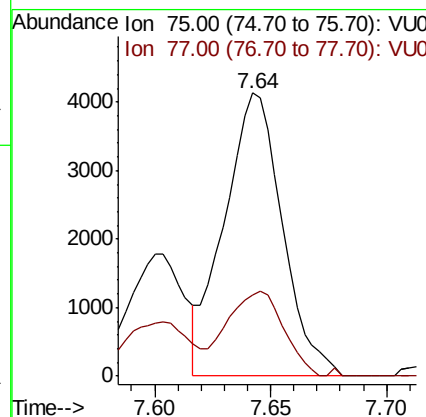
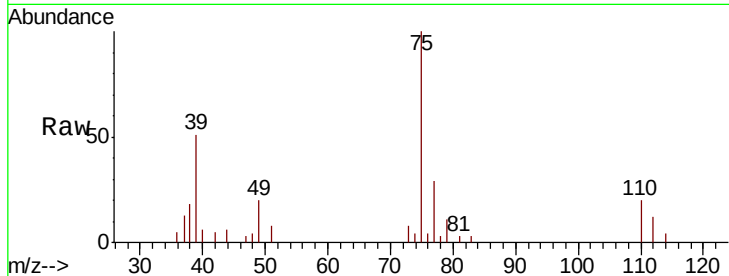
#39
 cis-1,3-Dichloropropene
 Concen: 2.244 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion: 75 Resp: 7204
 Ion Ratio Lower Upper
 75 100
 77 28.8 22.3 41.5

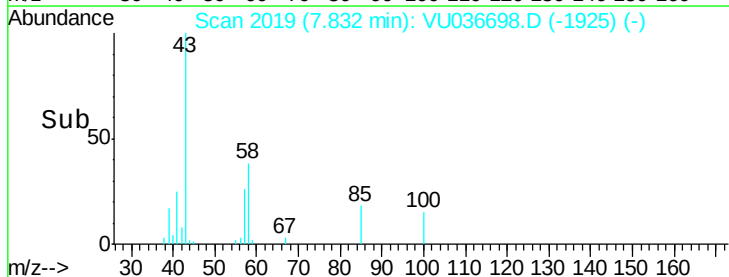
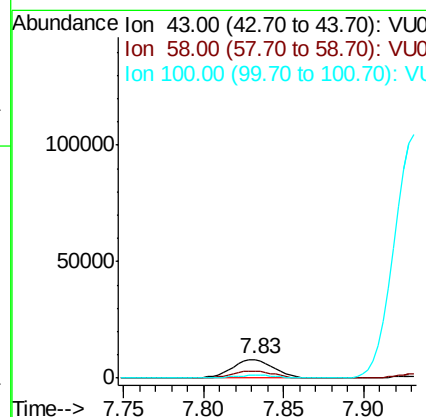
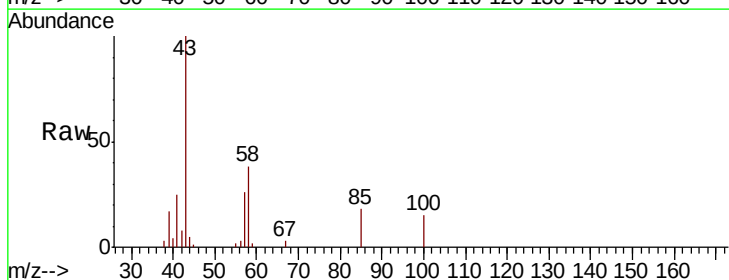
Manual Integrations
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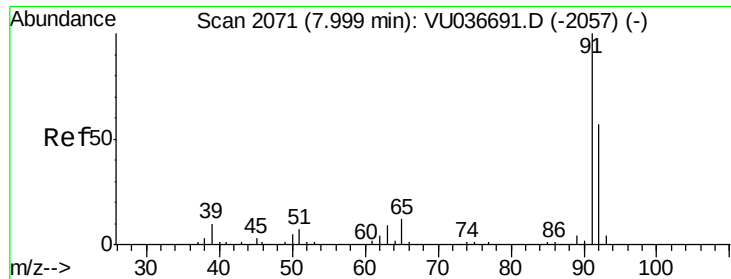
MMDadoda
 2/10/2020 11:54:14 AM



#40
 4-Methyl-2-pentanone
 Concen: 4.568 ug/L
 RT: 7.83 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Tgt Ion: 43 Resp: 14503
 Ion Ratio Lower Upper
 43 100
 58 37.4 31.0 46.6
 100 14.4 11.4 17.2





#42

Toluene

Concen: 2.478 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036698.D

Acq: 07 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 91 Resp: 19957

Ion Ratio Lower Upper

91 100

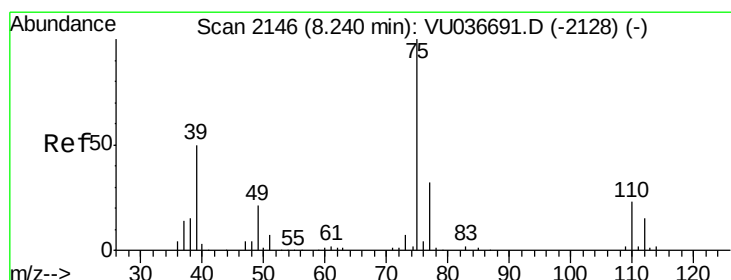
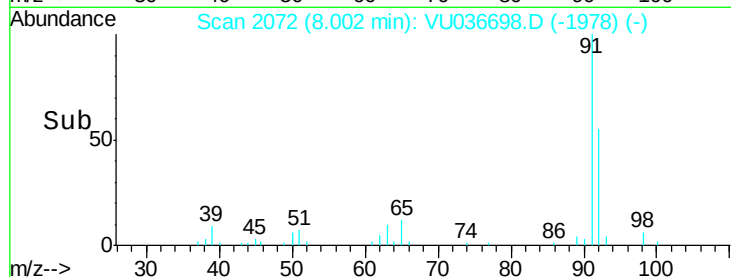
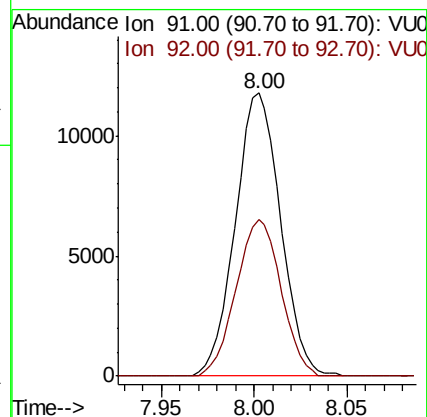
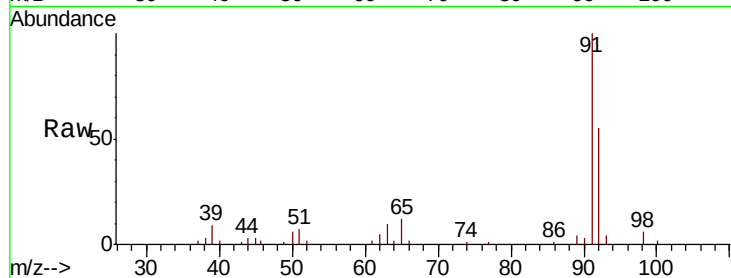
92 55.2 39.5 73.3

Manual Integrations

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MMDadoda

2/10/2020 11:54:14 AM



#44

trans-1,3-Dichloropropene

Concen: 2.361 ug/L m

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036698.D

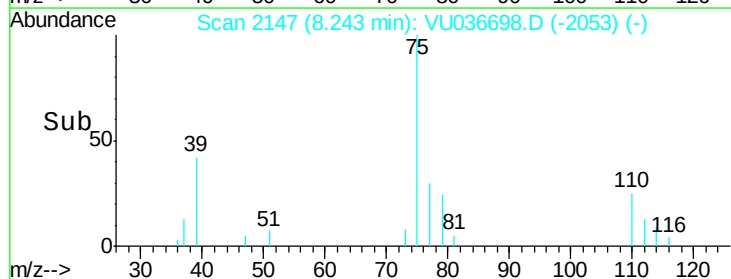
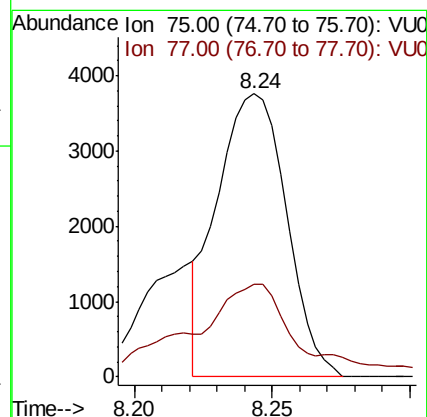
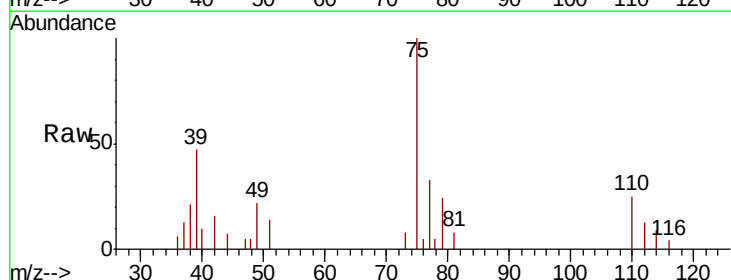
Acq: 07 Feb 2020 13:13

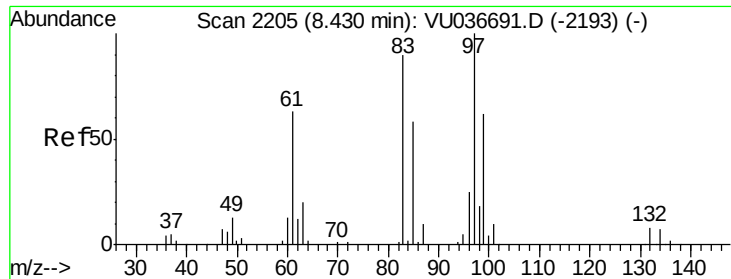
Tgt Ion: 75 Resp: 6623

Ion Ratio Lower Upper

75 100

77 32.7 22.6 42.0





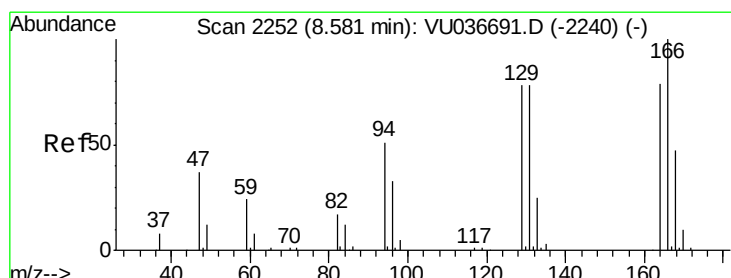
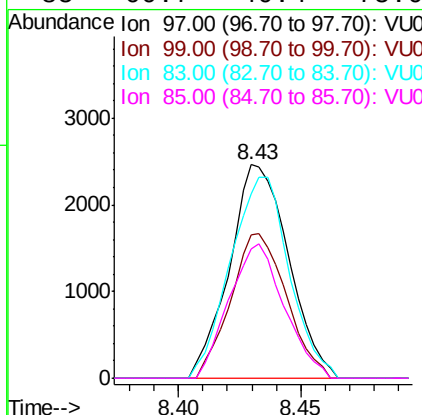
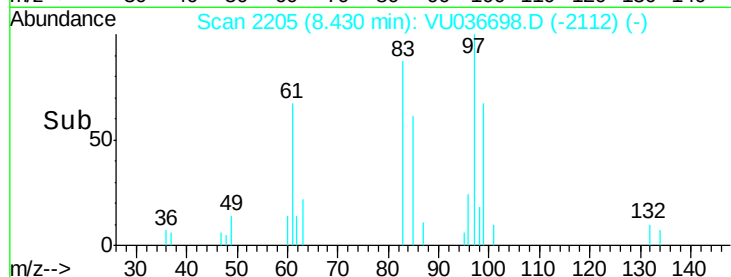
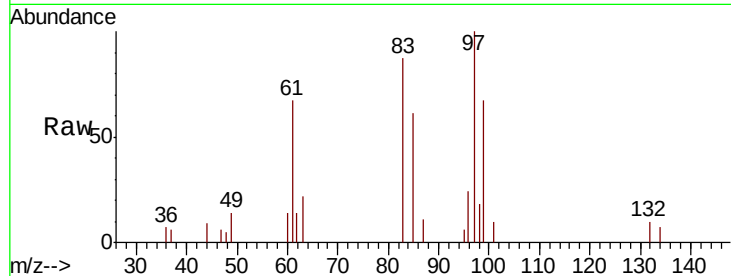
#45
 1,1,2-Trichloroethane
 Concen: 2.261 ug/L
 RT: 8.43 min Scan# 2205
 Delta R.T. -0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion:	97	Resp:	4145
Ion	Ratio	Lower	Upper
97	100		
99	67.2	42.6	79.0
83	86.6	61.1	113.5
85	60.7	40.4	75.0

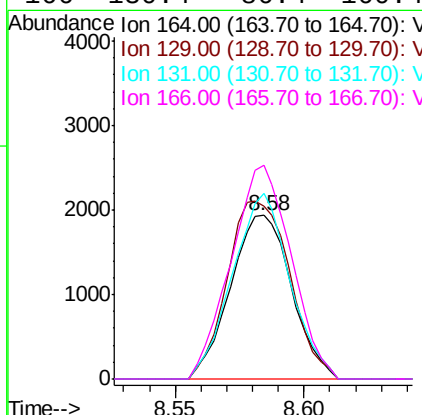
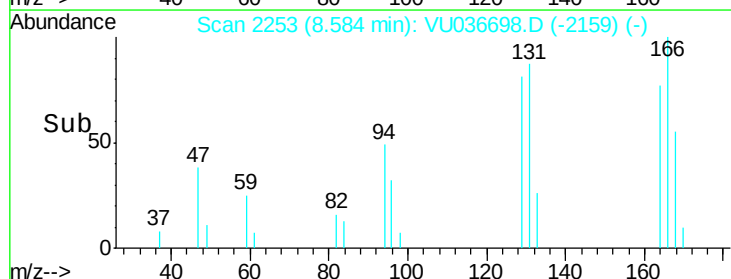
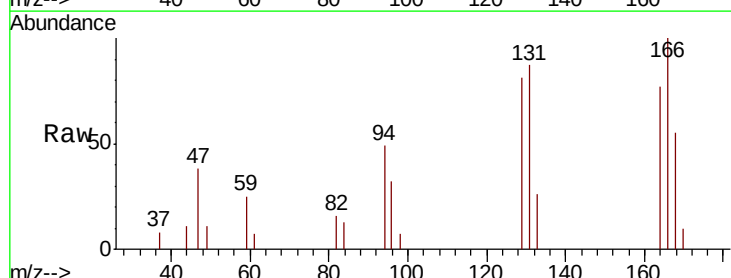
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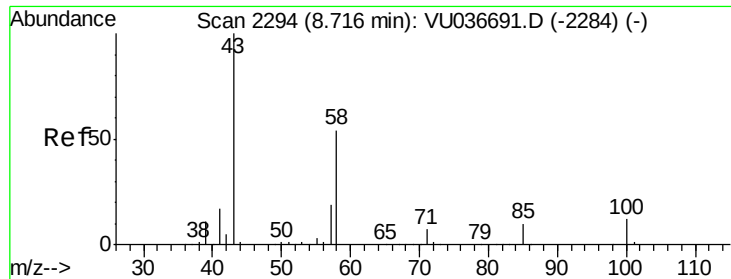
MMDadoda
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#46
 Tetrachloroethene
 Concen: 2.473 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Tgt Ion:	164	Resp:	3198
Ion	Ratio	Lower	Upper
164	100		
129	105.3	71.0	131.9
131	113.4	66.6	123.6
166	130.4	86.4	160.4





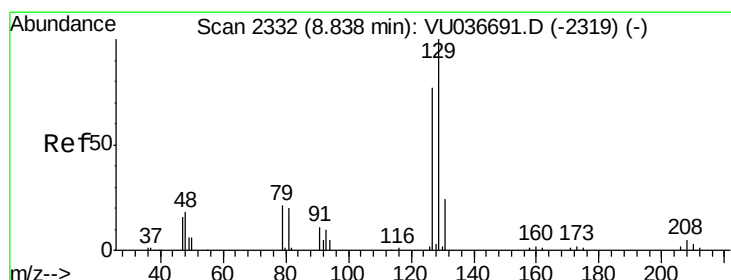
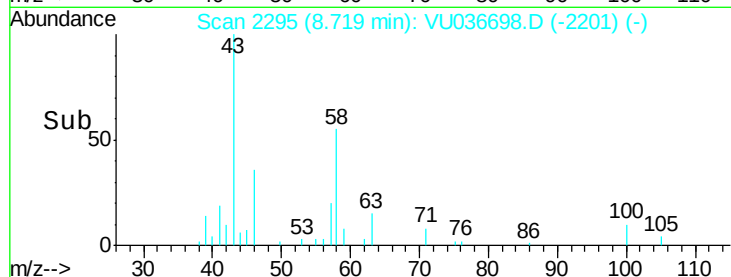
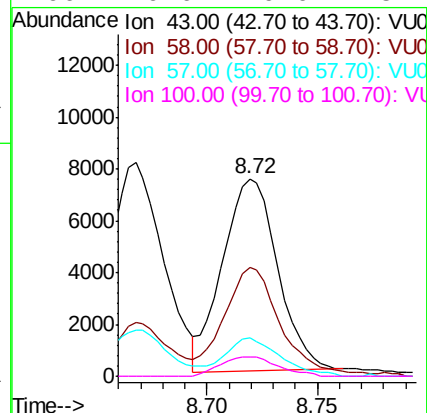
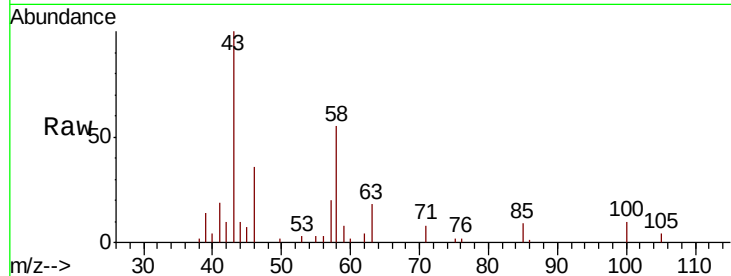
#48
2-Hexanone
Concen: 4.966 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	55.2	43.6	65.4	
57	20.2	15.5	23.3	
100	10.6	9.0	13.4	

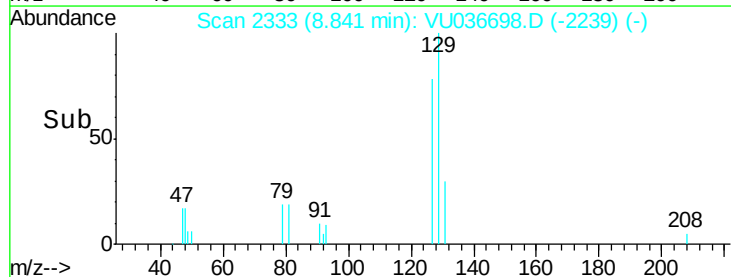
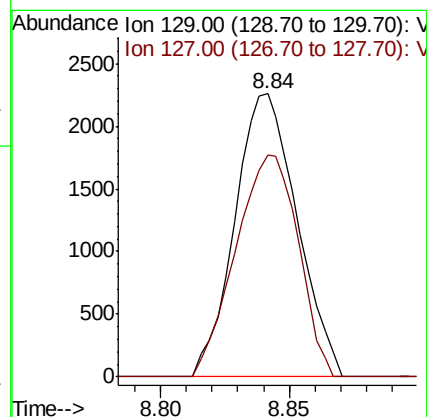
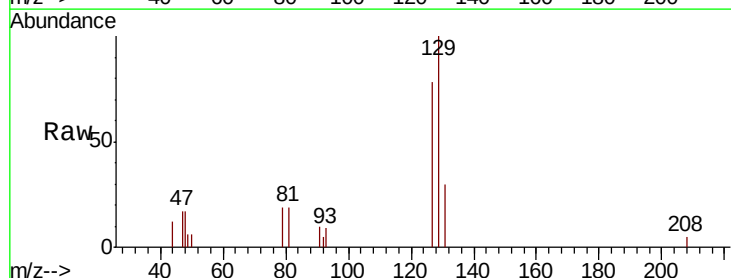
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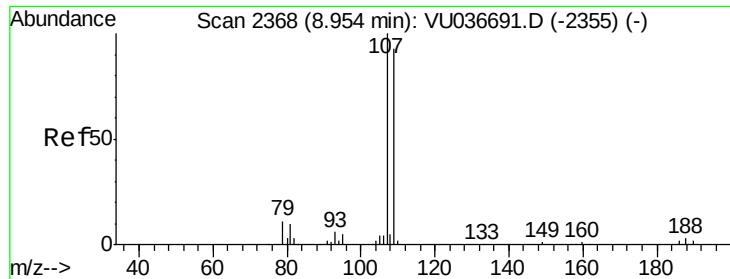
MMDadoda
2/10/2020 11:54:14 AM



#49
Dibromochloromethane
Concen: 2.116 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.3	53.6	99.6	





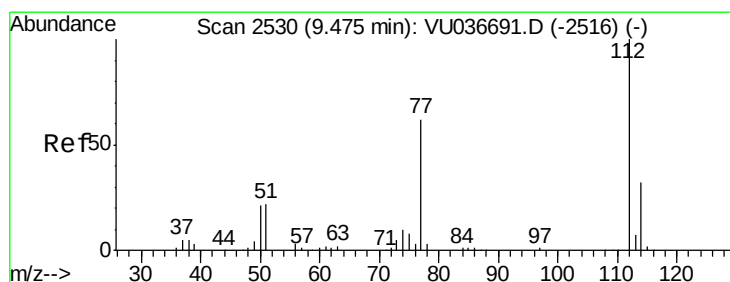
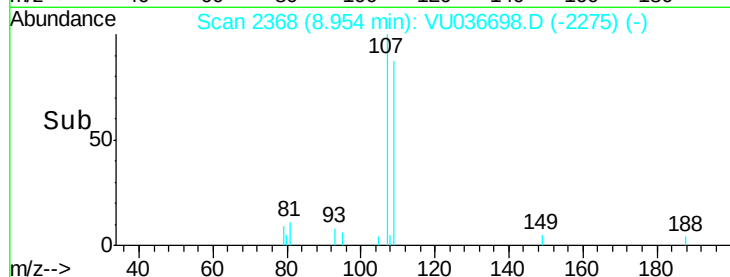
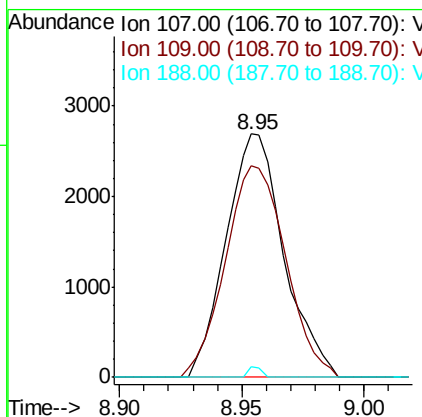
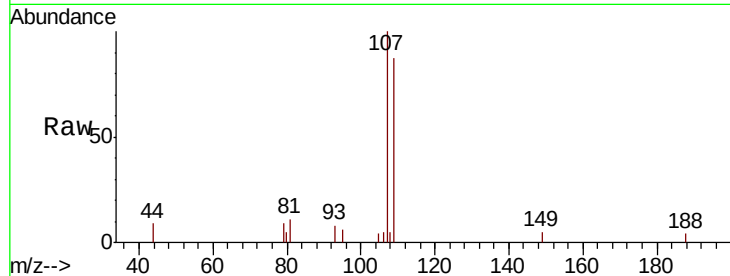
#50
1,2-Dibromoethane
Concen: 2.297 ug/L
RT: 8.95 min Scan# 2368
Delta R.T. -0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
107	100		
109	86.9	65.8	122.2
188	4.3	2.5	3.7#

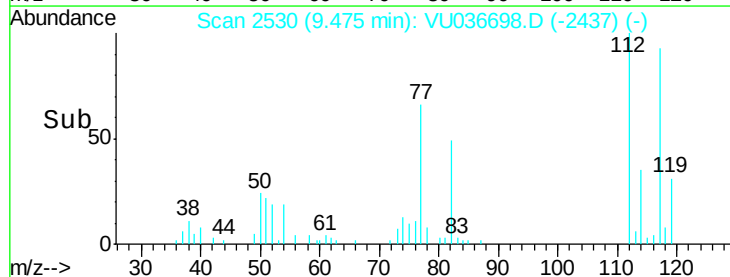
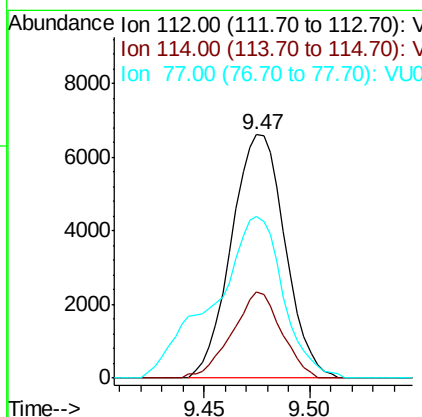
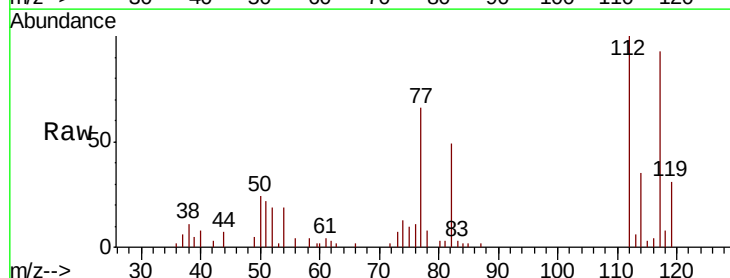
Manual Integrations
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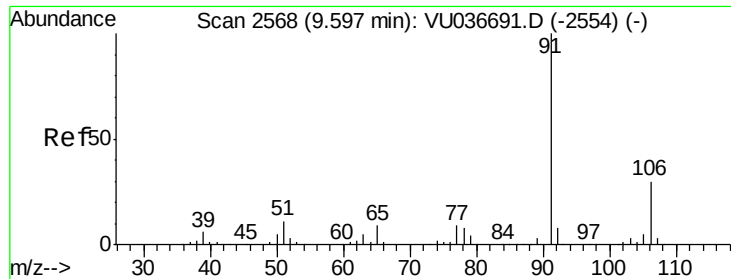
MMDadoda
2/10/2020 11:54:14 AM



#51
Chlorobenzene
Concen: 2.407 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. -0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
112	100		
114	35.3	22.7	42.1
77	66.2	50.6	75.8





#52

Ethylbenzene

Concen: 2.297 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036698.D

Acq: 07 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 20329

Ion Ratio Lower Upper

91 100

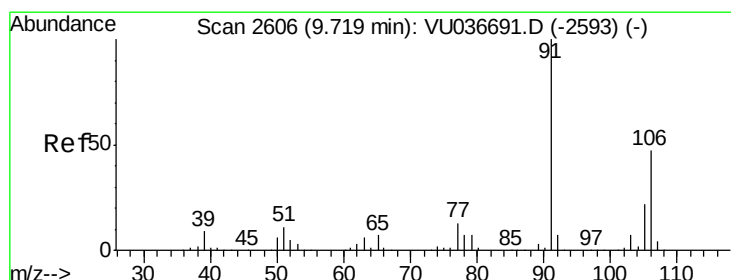
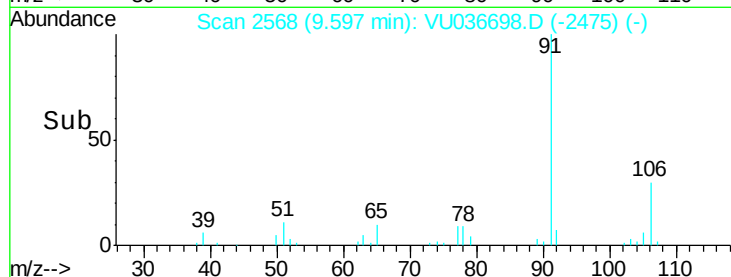
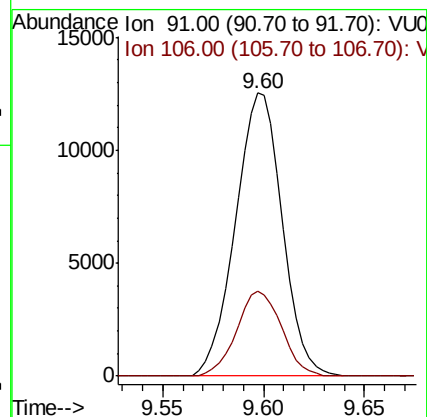
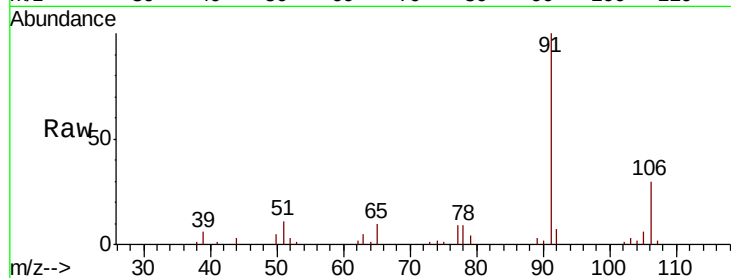
106 30.0 21.3 39.6

Manual Integrations

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#53

m,p-Xylene

Concen: 2.257 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036698.D

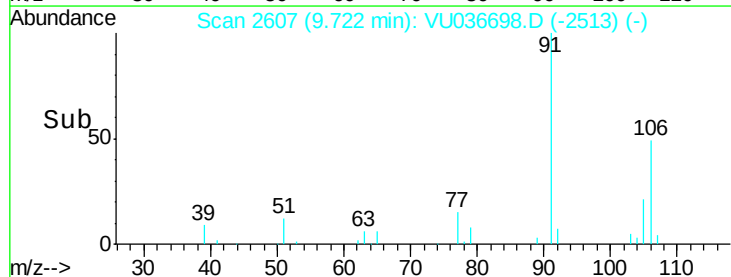
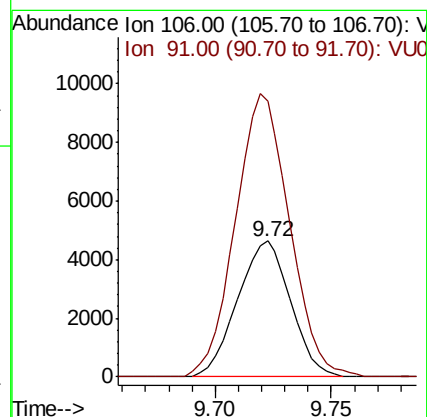
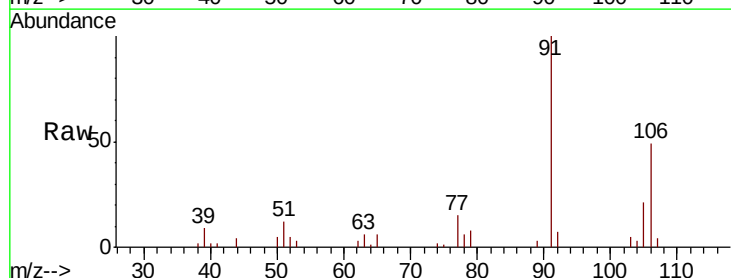
Acq: 07 Feb 2020 13:13

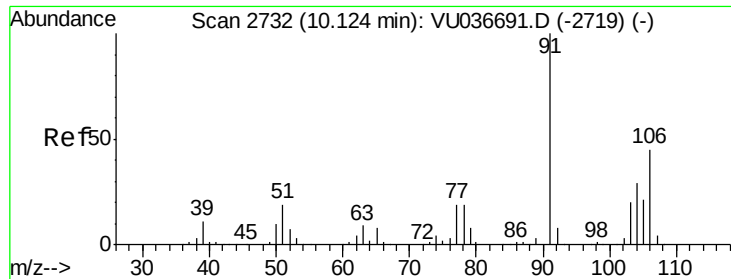
Tgt Ion: 106 Resp: 7369

Ion Ratio Lower Upper

106 100

91 202.9 145.9 270.9





#54

o-xylene

Concen: 2.176 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036698.D

Acq: 07 Feb 2020 13:13

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion:106 Resp: 7037

Ion Ratio Lower Upper

106 100

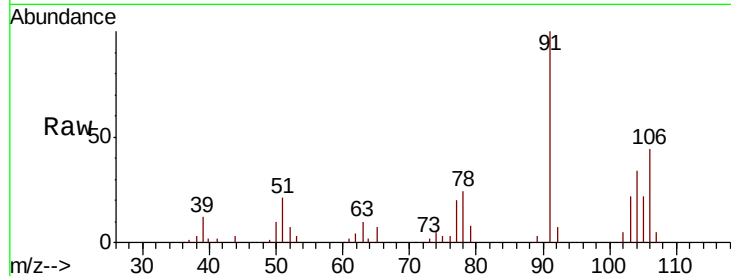
91 229.7 156.0 289.6

Manual Integrations

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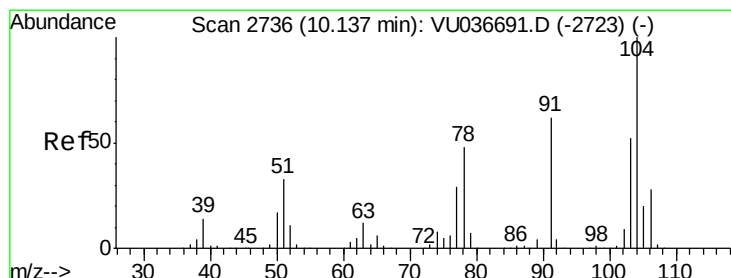
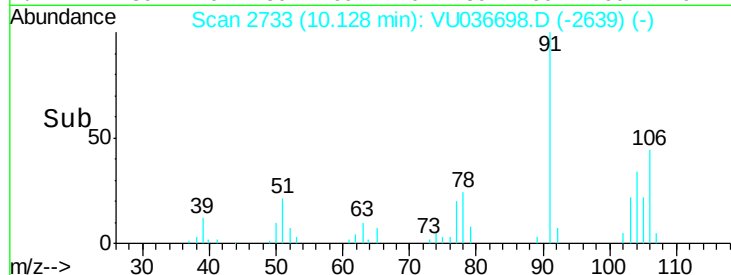
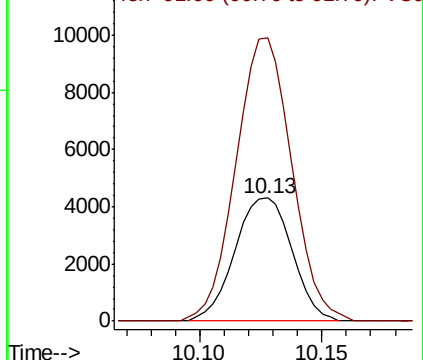
MMDadoda

2/10/2020 11:54:14 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.070 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036698.D

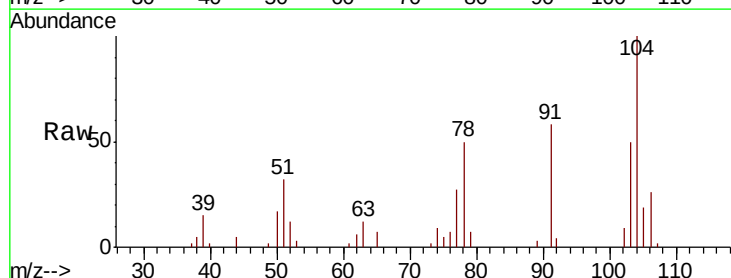
Acq: 07 Feb 2020 13:13

Tgt Ion:104 Resp: 11157

Ion Ratio Lower Upper

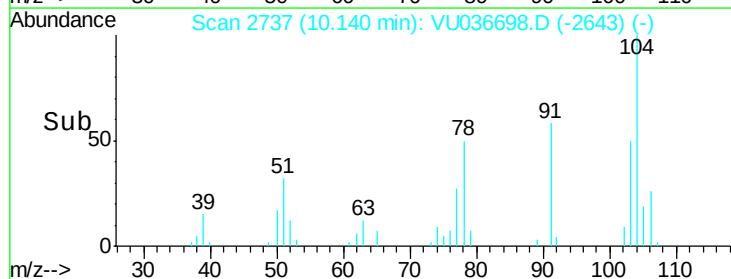
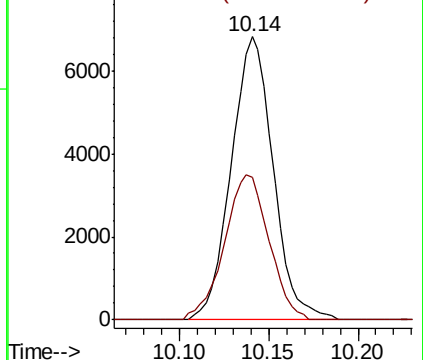
104 100

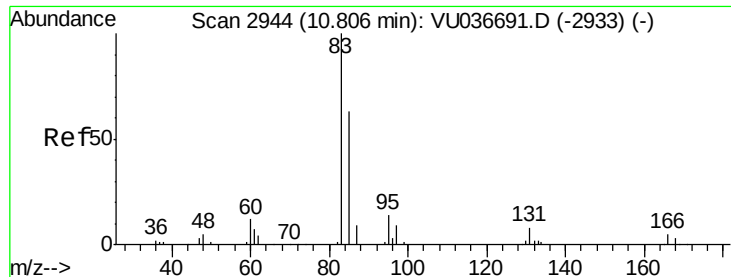
78 50.2 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





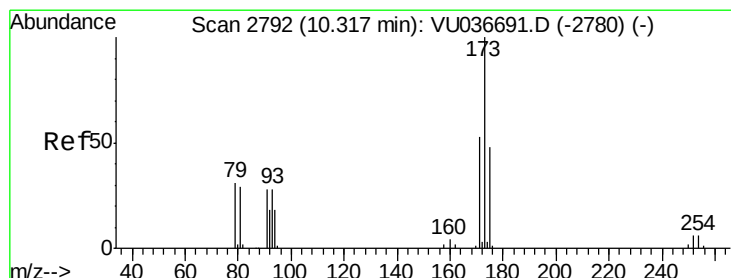
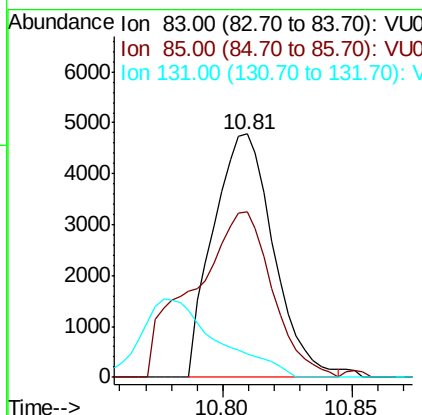
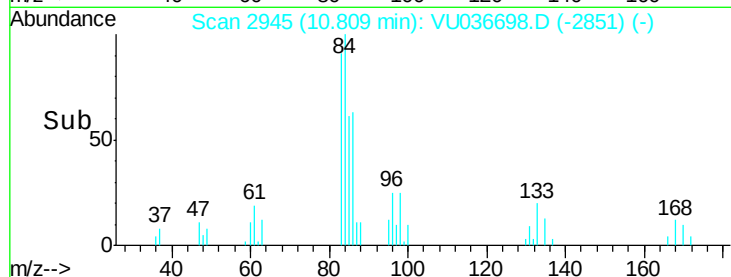
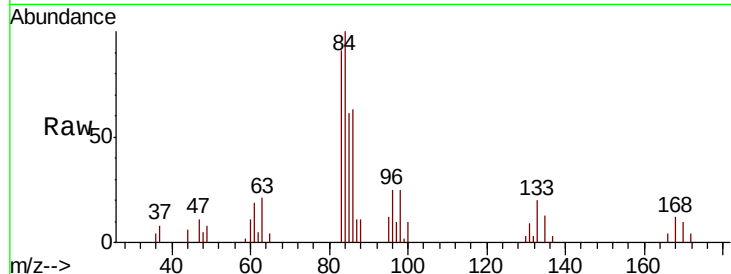
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.348 ug/L
 RT: 10.81 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
83	100		
85	67.8	44.7	82.9
131	9.8	6.8	10.2

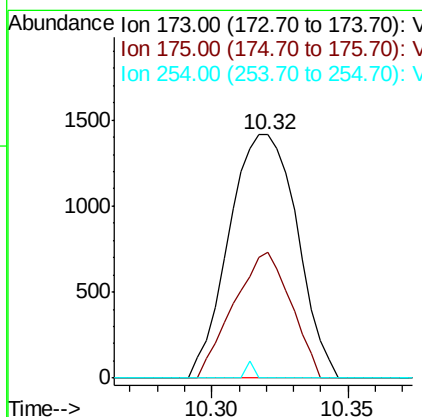
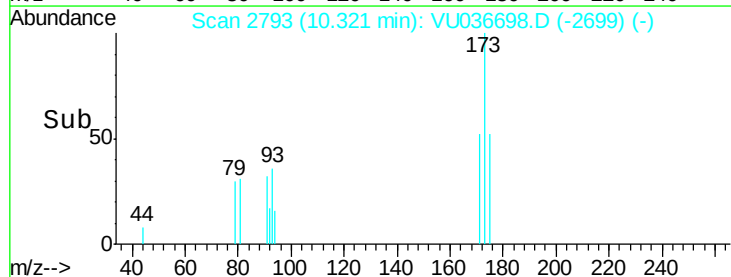
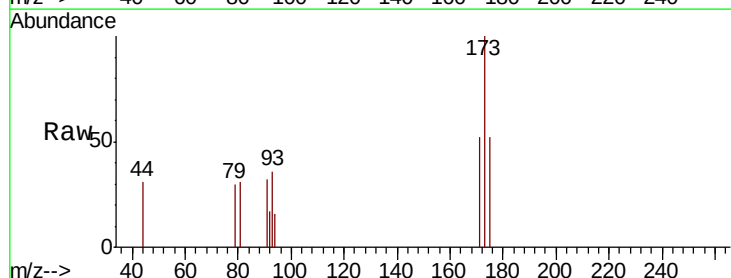
Manual Integrations
 APPROVED

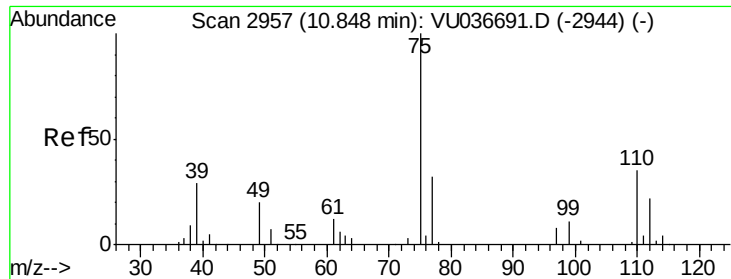
MMDadoda
 2/10/2020 11:54:14 AM



#59
 Bromoform
 Concen: 2.122 ug/L
 RT: 10.32 min Scan# 2793
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
173	100		
175	43.6	38.2	57.4
254	0.0	4.8	7.2





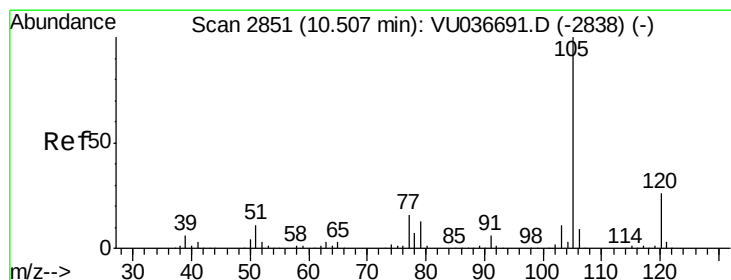
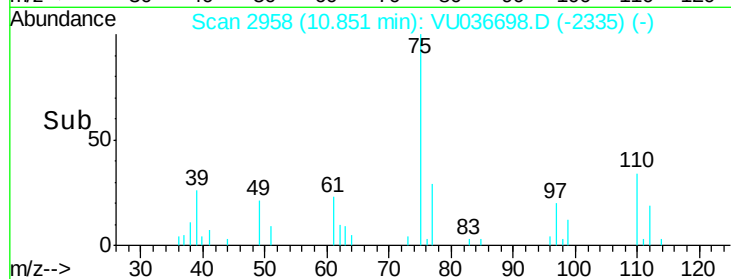
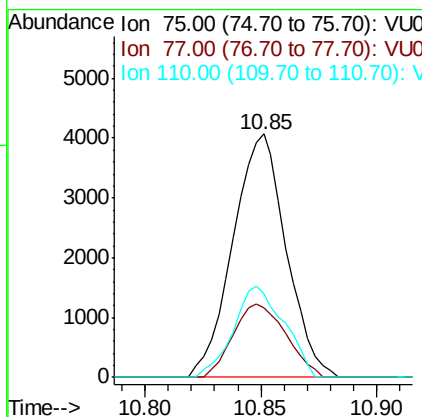
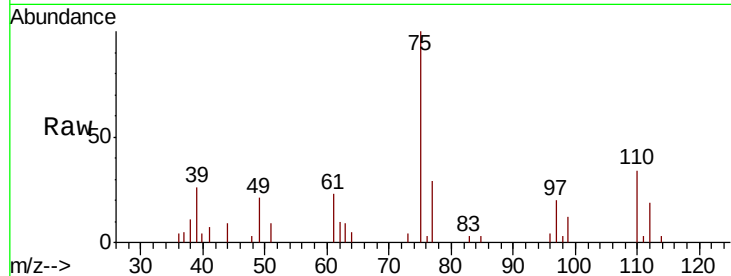
#60
1,2,3-Trichloropropane
Concen: 2.636 ug/L
RT: 10.85 min Scan# 2958
Delta R.T. 0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.1	26.1	39.1
110	35.6	26.9	40.3

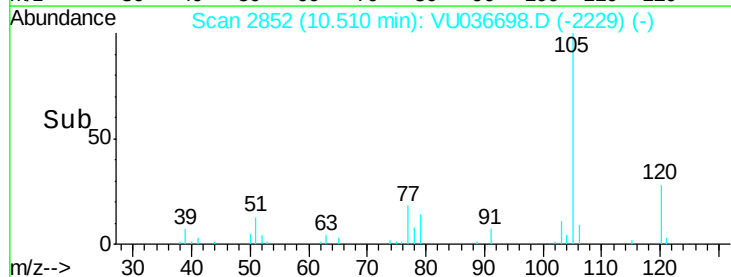
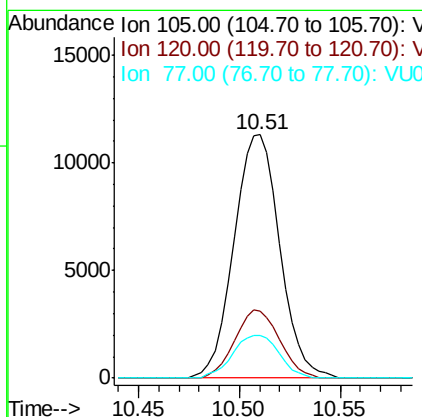
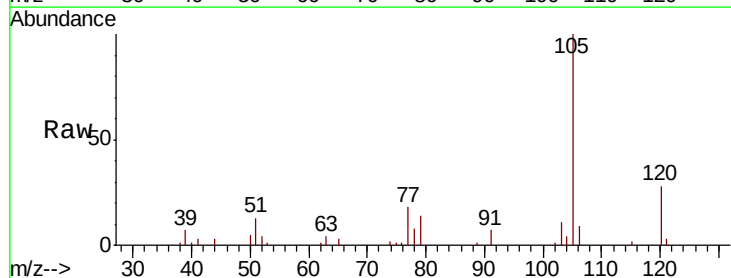
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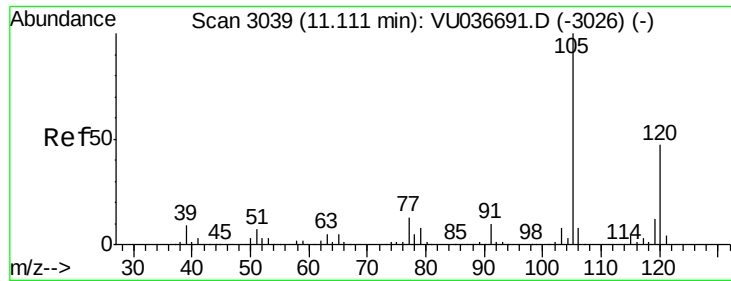
MMDadoda
2/10/2020 11:54:14 AM



#61
Isopropylbenzene
Concen: 2.313 ug/L
RT: 10.51 min Scan# 2852
Delta R.T. 0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.2	20.2	30.4
77	17.8	13.0	19.6





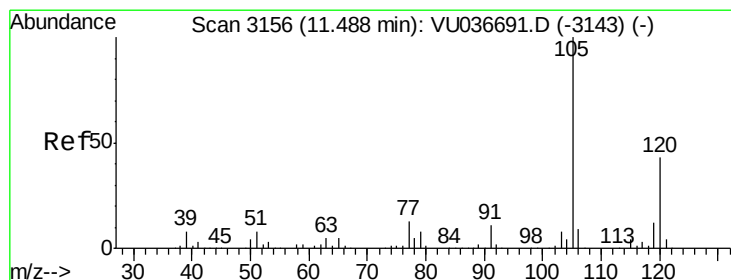
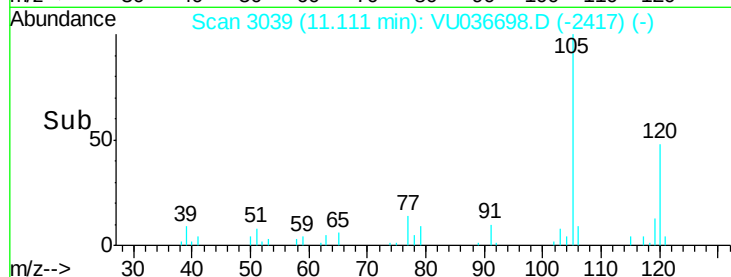
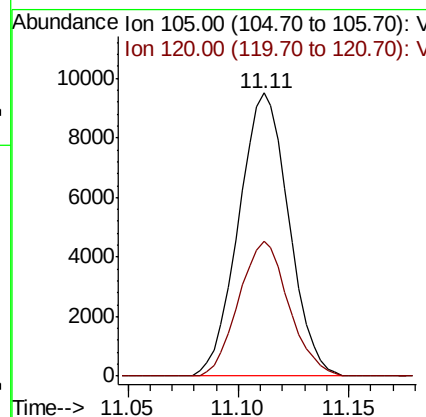
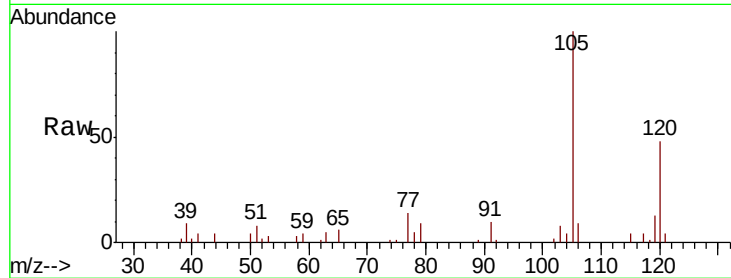
#62
 1,3,5-Trimethylbenzene
 Concen: 2.250 ug/L
 RT: 11.11 min Scan# 3039
 Delta R.T. -0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion:105 Resp: 15020
 Ion Ratio Lower Upper
 105 100
 120 47.5 37.1 55.7

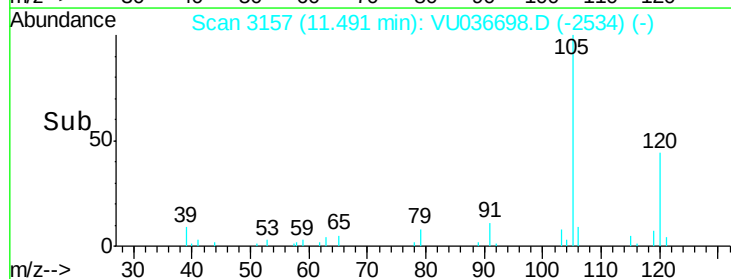
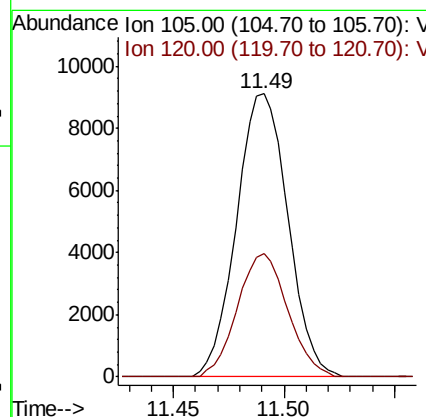
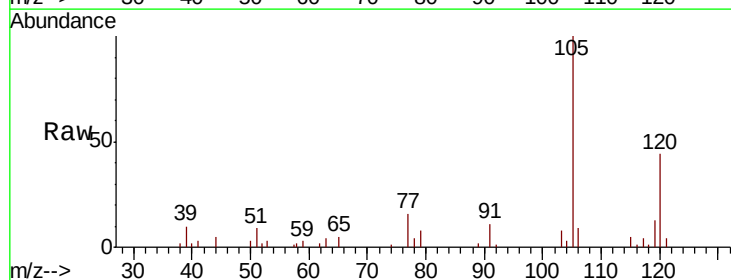
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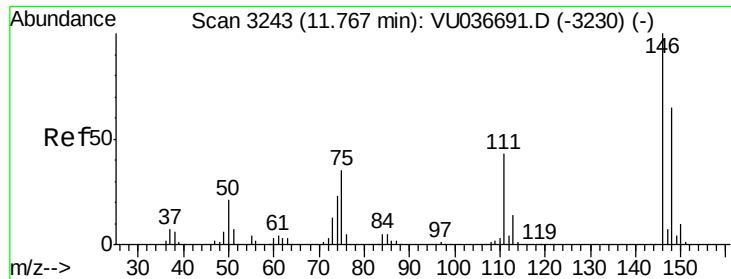
MMDadoda
 2/10/2020 11:54:14 AM



#63
 1,2,4-Trimethylbenzene
 Concen: 2.219 ug/L
 RT: 11.49 min Scan# 3157
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Tgt Ion:105 Resp: 14795
 Ion Ratio Lower Upper
 105 100
 120 42.6 34.7 52.1





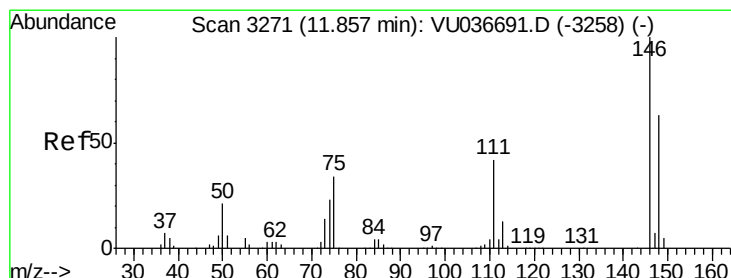
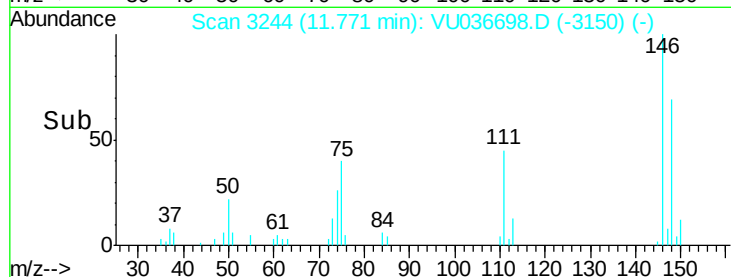
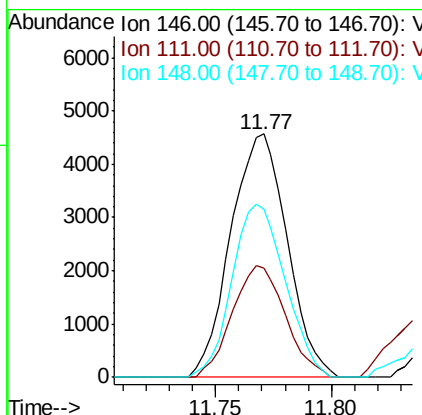
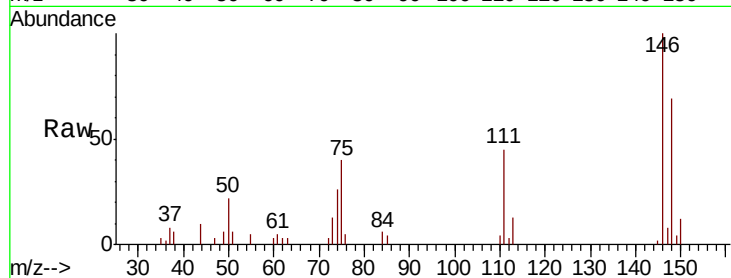
#64
 1,3-Dichlorobenzene
 Concen: 2.357 ug/L
 RT: 11.77 min Scan# 3244
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.9	30.4	56.4
148	69.1	44.5	82.7

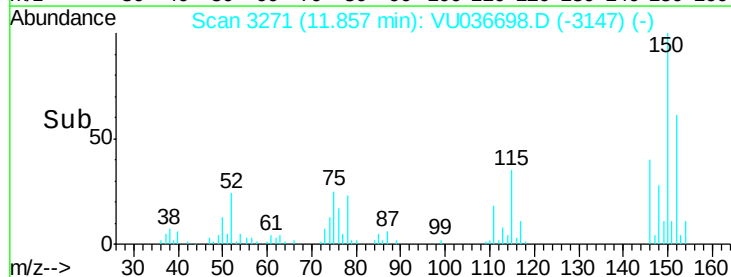
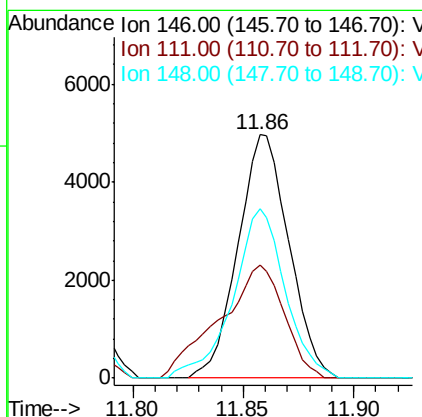
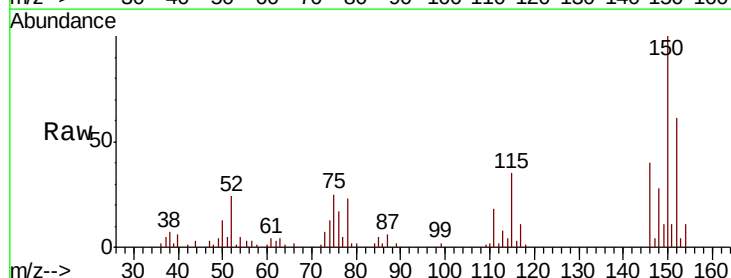
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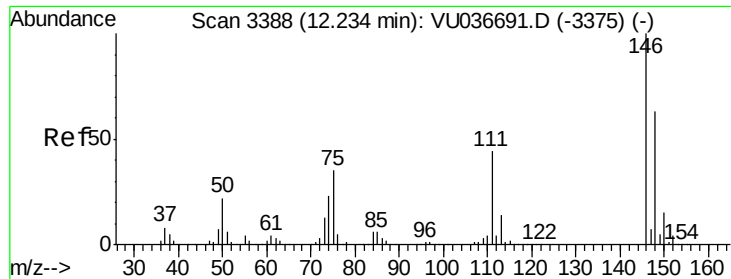
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 2/10/2020 11:54:14 AM



#65
 1,4-Dichlorobenzene
 Concen: 2.418 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. -0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.2	29.3	54.3
148	69.6	44.8	83.2





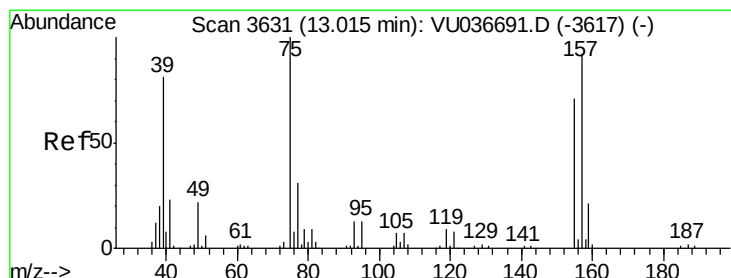
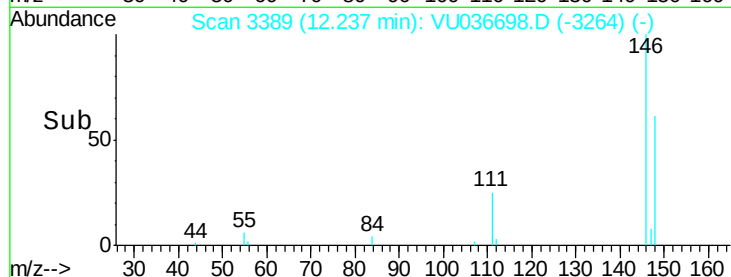
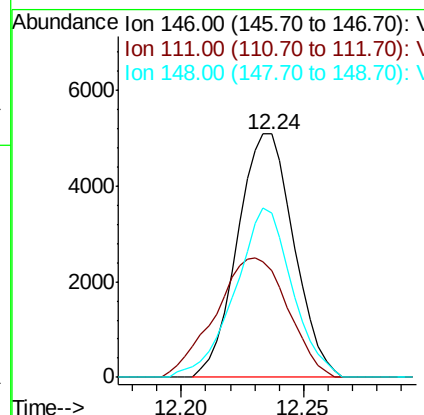
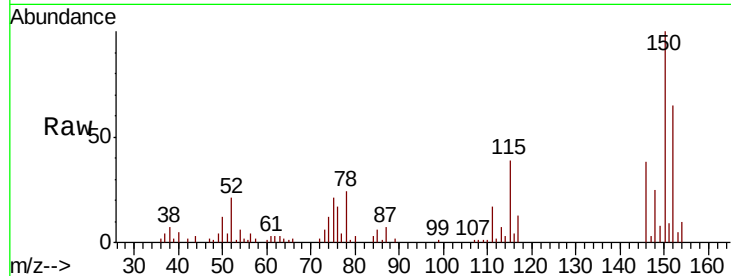
#67
 1,2-Dichlorobenzene
 Concen: 2.459 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.9	35.4	53.0
148	67.4	50.4	75.6

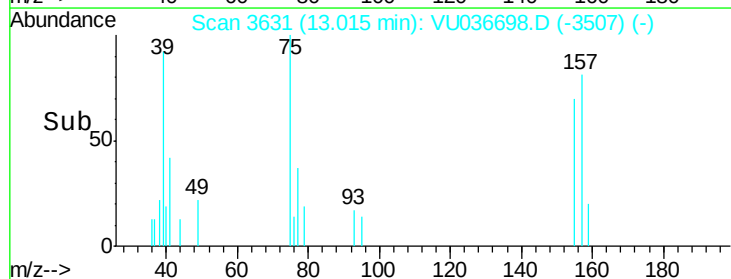
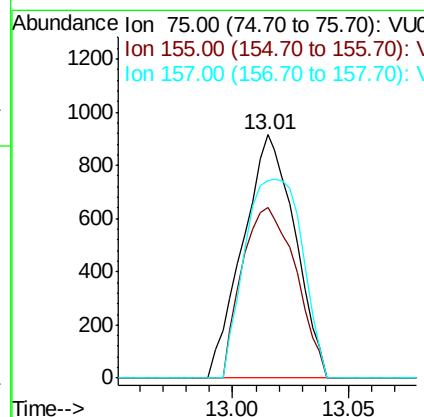
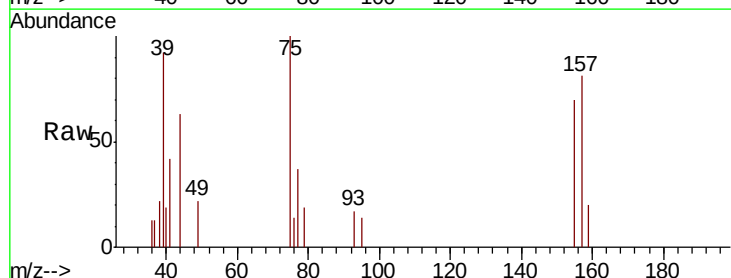
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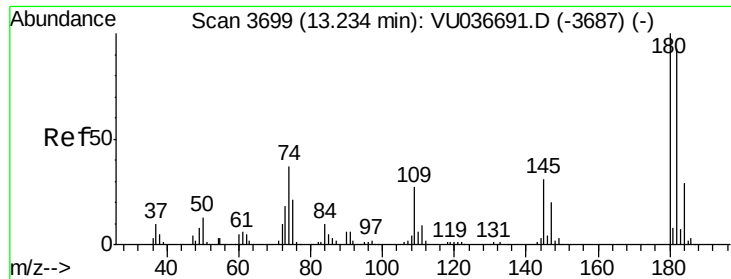
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 2/10/2020 11:54:14 AM



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.027 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. -0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	70.1	58.7	88.1
157	80.9	77.8	116.6





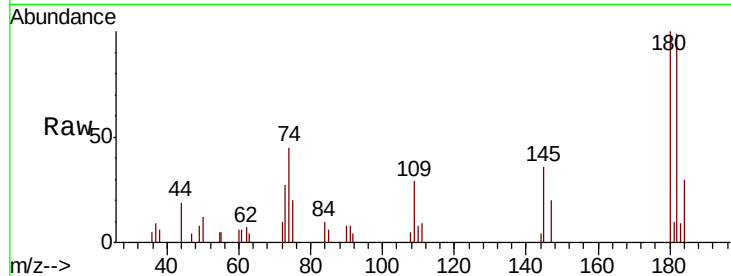
#69
 1,3,5-Trichlorobenzene
 Concen: 2.042 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.3	76.2	114.4
184	27.1	23.8	35.6
145	31.6	25.0	37.6

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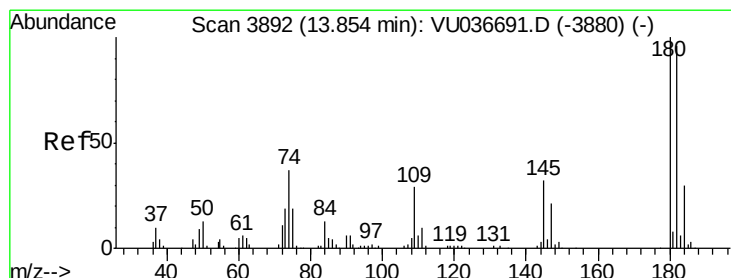
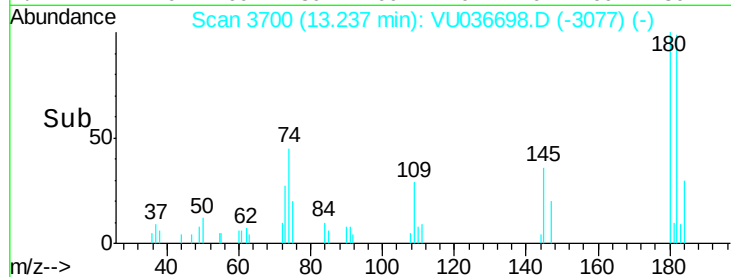
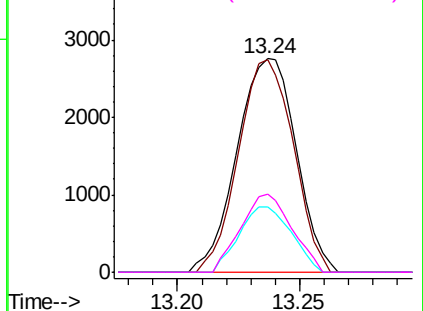
Abundance

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: 1.801 ug/L
 RT: 13.86 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU036698.D
 Acq: 07 Feb 2020 13:13

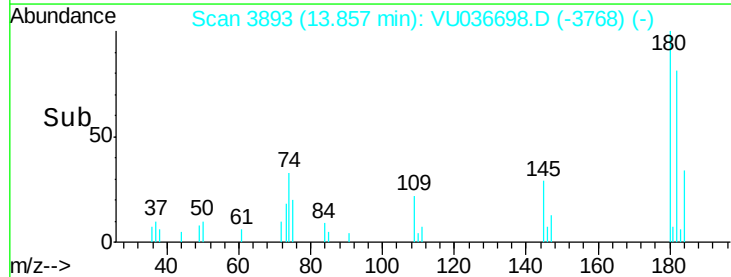
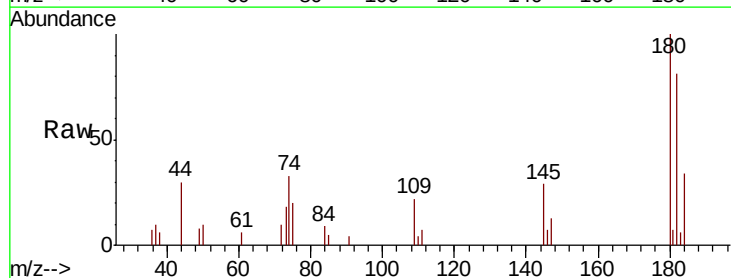
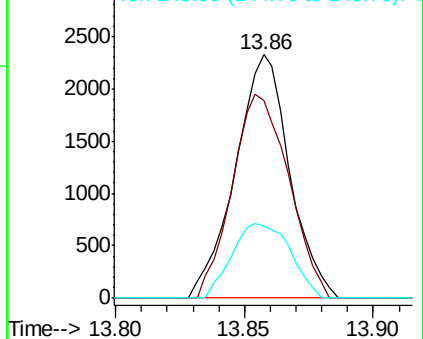
Tgt Ion	Ratio	Lower	Upper
180	100		
182	87.3	76.1	114.1
145	32.6	25.7	38.5

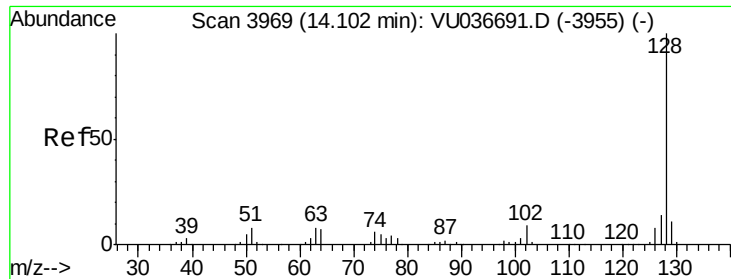
Abundance

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





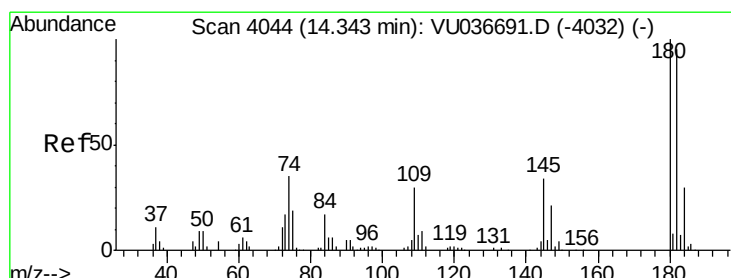
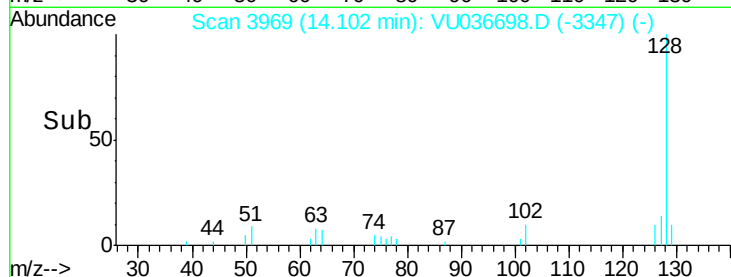
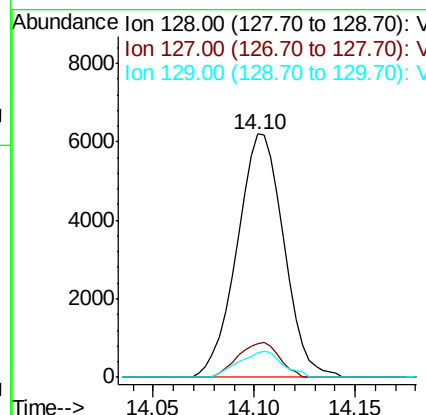
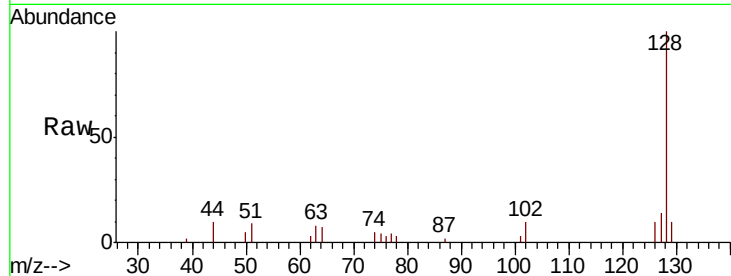
#71
Naphthalene
Concen: 1.510 ug/L
RT: 14.10 min Scan# 3969
Delta R.T. -0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.6	16.0
129	10.0	8.5	12.7

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#72
1,2,3-Trichlorobenzene
Concen: 1.768 ug/L
RT: 14.35 min Scan# 4045
Delta R.T. 0.00 min
Lab File: VU036698.D
Acq: 07 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.8	115.2
145	34.7	27.5	41.3

