

Data File : VU036559.D
Acq On : 24 Jan 2020 16:56
Operator : JC/MD
Sample : MDL03
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Manual Integrations
APPROVED

MMDadoda
2/14/2020 12:24:03 PM

Quant Time: Jan 24 23:49:06 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR012420WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Jan 24 23:19:07 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene	6.29	114	147899	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	140700	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	65117	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	39507	4.86	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.20%
7) Chloroethane-d5	1.93	69	37635	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.20%
11) 1,1-Dichloroethene-d2	2.59	65	16758	5.00	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	100.00%
20) 2-Butanone-d5	4.70	46	94402	52.68	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.36%
24) Chloroform-d	5.11	84	74344	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.60%
26) 1,2-Dichloroethane-d4	5.75	65	40717	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
32) Benzene-d6	5.77	84	166848	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
36) 1,2-Dichloropropane-d6	6.73	67	51813	4.99	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.80%
41) Toluene-d8	7.93	98	159645	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
43) trans-1,3-Dichloropropene-	8.21	79	20073	4.87	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.40%
46) 2-Hexanone-d5	8.67	63	102441	53.48	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.96%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	41432	4.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.80%
66) 1,2-Dichlorobenzene-d4	12.21	152	59417	5.25	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	2612	0.241 ug/L	97
3) Chloromethane	1.53	50	2985	0.261 ug/L	97
5) Vinyl chloride	1.62	62	3274	0.263 ug/L #	76
6) Bromomethane	1.87	94	1915	0.265 ug/L	91
8) Chloroethane	1.95	64	2396m	0.312 ug/L	
9) Trichlorofluoromethane	2.16	101	3503	0.242 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	2620	0.294 ug/L #	86
12) 1,1-Dichloroethene	2.60	96	2656	0.300 ug/L #	1
13) Acetone	2.68	43	7509m	5.622 ug/L	
14) Carbon disulfide	2.82	76	7003	0.252 ug/L	95
15) Methyl Acetate	3.00	43	925	0.271 ug/L #	46
16) Methylene chloride	3.08	84	6929	0.576 ug/L	97
17) Methyl tert-butyl Ether	3.41	73	5314	0.239 ug/L	100
18) trans-1,2-Dichloroethene	3.39	96	2423	0.255 ug/L	88
19) 1,1-Dichloroethane	3.92	63	3862	0.233 ug/L	94
21) 2-Butanone	4.78	43	6968m	3.226 ug/L	
22) cis-1,2-Dichloroethene	4.72	96	2572	0.243 ug/L	95

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
23) Bromochloromethane	5.02	128	1004	0.225	ug/L	92
25) Chloroform	5.13	83	4716	0.286	ug/L	98
27) 1,2-Dichloroethane	5.84	62	2515	0.243	ug/L	99
29) 1,1,1-Trichloroethane	5.36	97	3367	0.240	ug/L	95
30) Cyclohexane	5.43	56	3756	0.234	ug/L	94
31) Carbon tetrachloride	5.57	117	2710	0.227	ug/L	96
33) Benzene	5.82	78	10257	0.259	ug/L	100
34) Trichloroethene	6.58	95	2662	0.254	ug/L	89
35) Methylcyclohexane	6.80	83	4362	0.243	ug/L	97
37) 1,2-Dichloropropane	6.83	63	2363	0.240	ug/L #	88
38) Bromodichloromethane	7.14	83	2737	0.228	ug/L #	94
39) cis-1,3-Dichloropropene	7.64	75	3322	0.219	ug/L	98
40) 4-Methyl-2-pentanone	7.84	43	13916	2.517	ug/L #	87
42) Toluene	8.00	91	11283	0.258	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	2826m	0.242	ug/L	
45) 1,1,2-Trichloroethane	8.43	97	1627	0.224	ug/L	93
47) Tetrachloroethene	8.58	164	2170	0.254	ug/L	97
48) 2-Hexanone	8.72	43	11713	3.070	ug/L	97
49) Dibromochloromethane	8.84	129	1901	0.228	ug/L	88
50) 1,2-Dibromoethane	8.95	107	1521	0.215	ug/L #	79
51) Chlorobenzene	9.47	112	7389	0.263	ug/L	94
52) Ethylbenzene	9.60	91	12245	0.258	ug/L	97
53) m,p-Xylene	9.72	106	4707	0.255	ug/L	89
54) o-Xylene	10.12	106	4457	0.247	ug/L	98
55) Styrene	10.14	104	6906	0.233	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.81	83	2174	0.238	ug/L #	87
59) Bromoform	10.32	173	1082	0.247	ug/L #	86
60) Isopropylbenzene	10.51	105	11243	0.255	ug/L	98
61) 1,2,3-Trichloropropane	10.85	75	1571	0.259	ug/L #	90
62) 1,3,5-Trimethylbenzene	11.11	105	9352	0.248	ug/L	100
63) 1,2,4-Trimethylbenzene	11.49	105	9563	0.255	ug/L	98
64) 1,3-Dichlorobenzene	11.77	146	5329	0.260	ug/L	96
65) 1,4-Dichlorobenzene	11.86	146	5227	0.255	ug/L	95
67) 1,2-Dichlorobenzene	12.23	146	5256	0.268	ug/L	94
68) 1,2-Dibromo-3-chloropropan	13.02	75	209	0.163	ug/L	92
69) 1,3,5-Trichlorobenzene	13.24	180	3653	0.232	ug/L	97
70) 1,2,4-trichlorobenzene	13.86	180	2169	0.189	ug/L	98
71) Naphthalene	14.11	128	2442	0.149	ug/L #	94
72) 1,2,3-Trichlorobenzene	14.35	180	2214	0.214	ug/L #	93

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

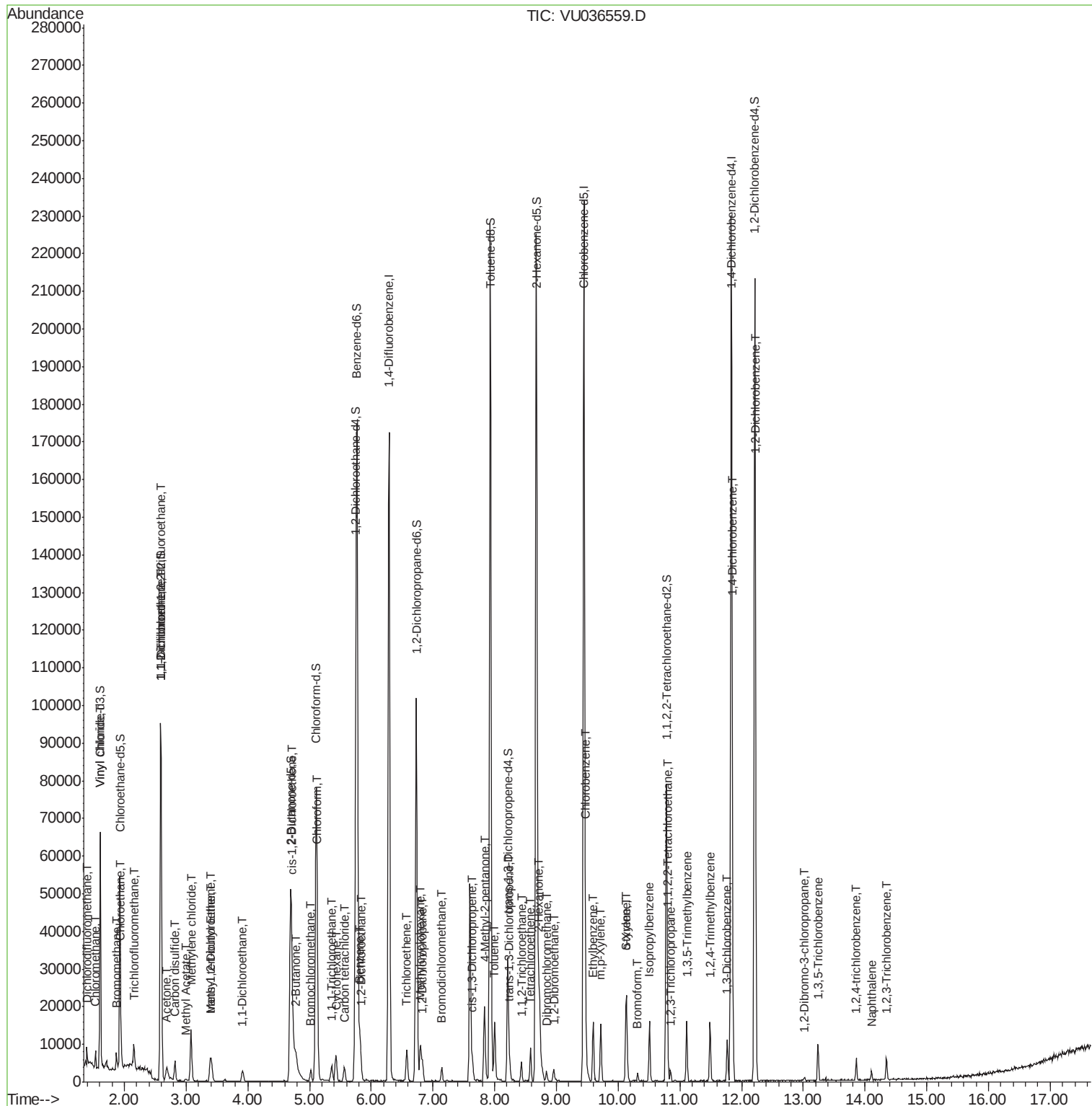
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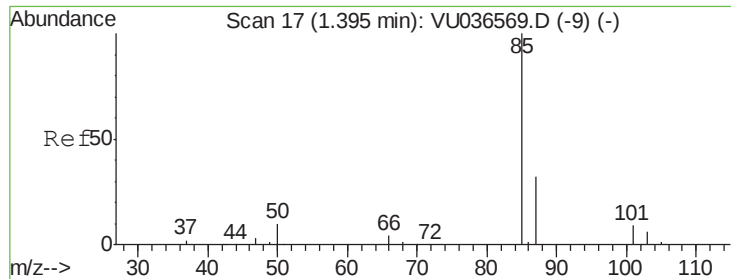
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#2

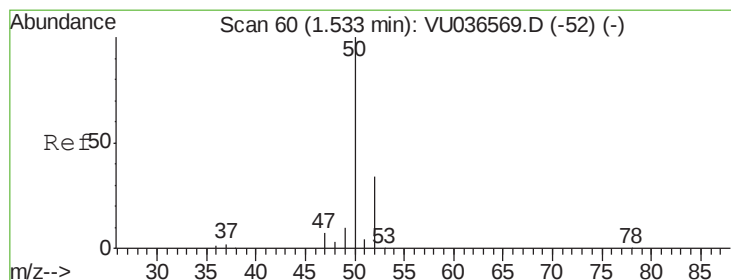
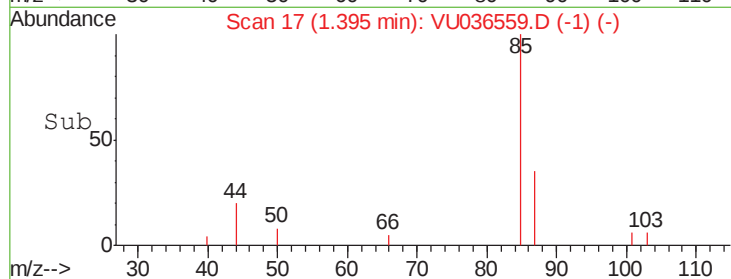
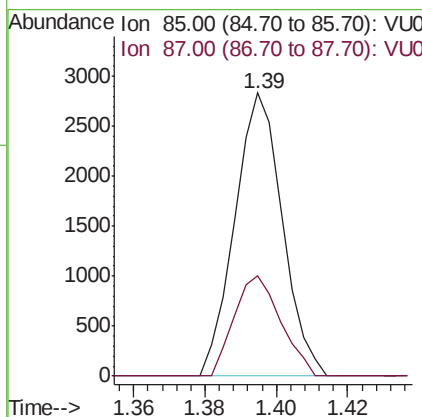
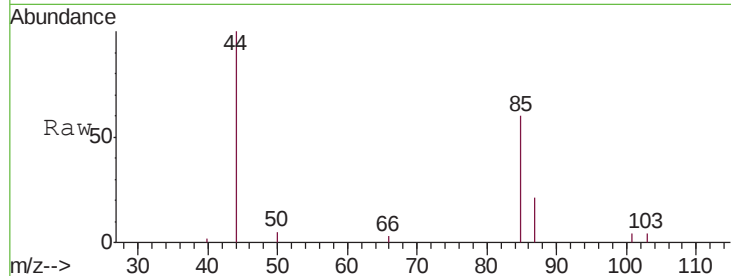
Dichlorodifluoromethane
Concen: 0.241 ug/L
RT: 1.39 min Scan# 17
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tgt Ion: 85 Resp: 2612
Ion Ratio Lower Upper
85 100
87 34.5 26.0 39.0

Manual Integrations
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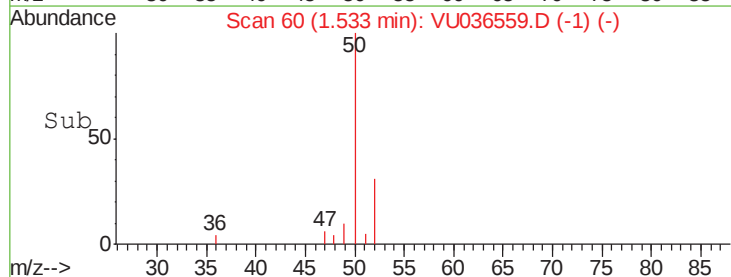
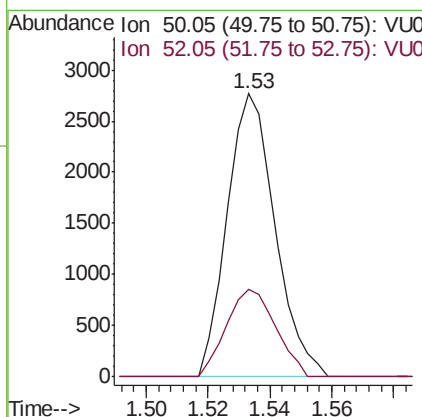
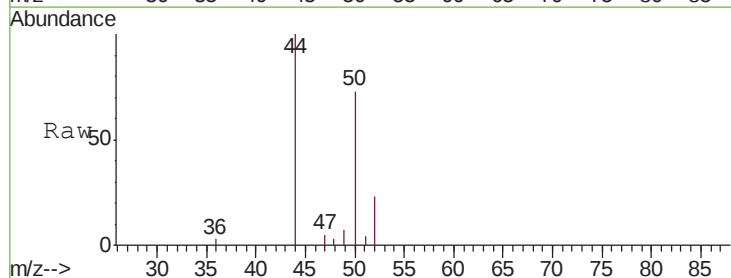
MMDadoda
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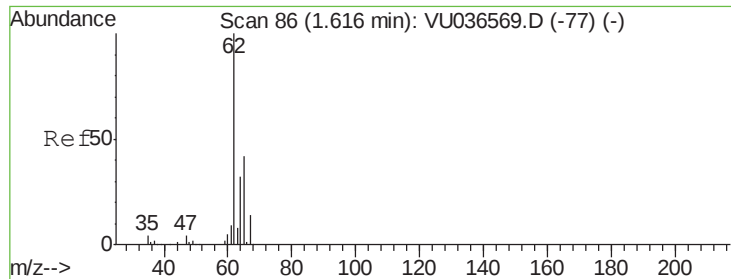


#3

Chloromethane
Concen: 0.261 ug/L
RT: 1.53 min Scan# 60
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Tgt Ion: 50 Resp: 2985
Ion Ratio Lower Upper
50 100
52 30.8 22.7 42.3





#5

Vinyl chloride

Concen: 0.263 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tgt Ion: 62 Resp: 3274

Ion Ratio Lower Upper

62 100

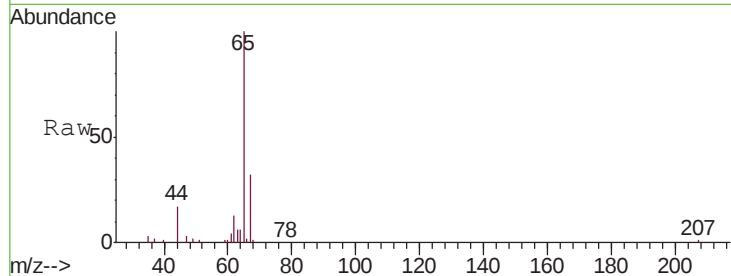
64 45.6 22.6 42.0#

Manual Integrations

APPROVED

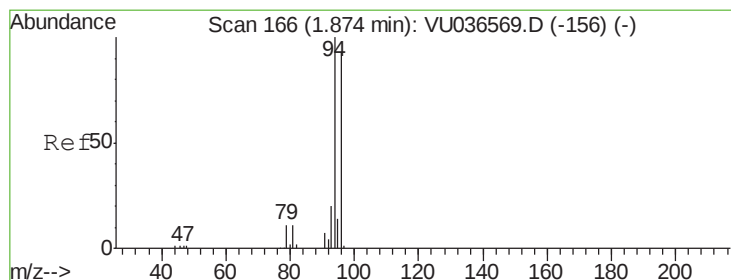
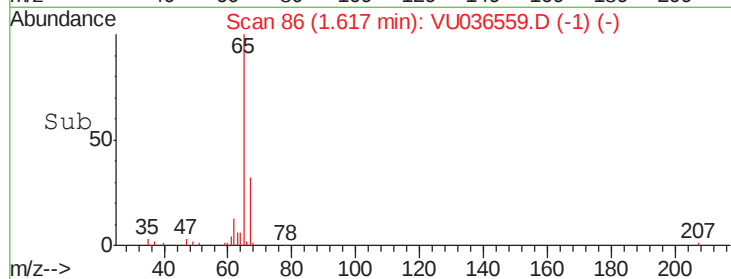
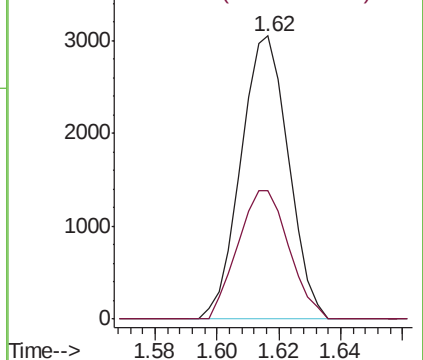
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Abundance Ion 62.00 (61.70 to 62.70): VU036559.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU036559.D (-77) (-)



#6

Bromomethane

Concen: 0.265 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036559.D

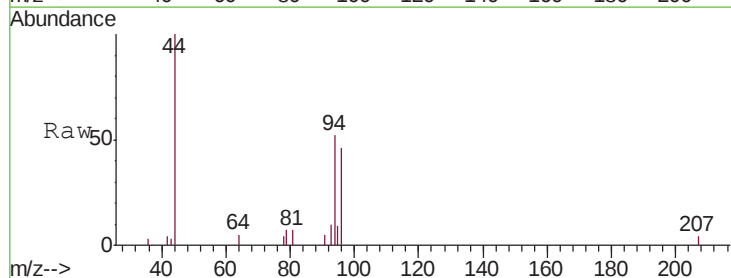
Acq: 24 Jan 2020 16:56

Tgt Ion: 94 Resp: 1915

Ion Ratio Lower Upper

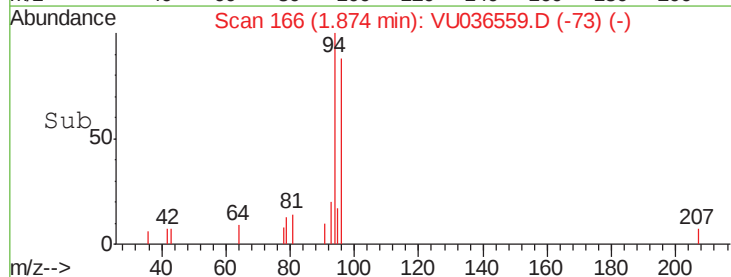
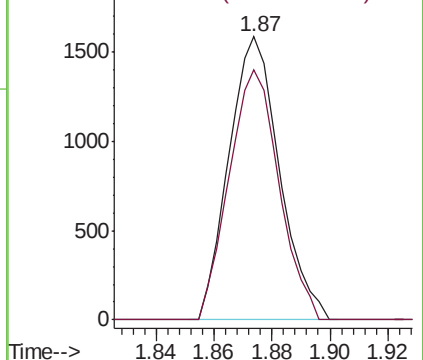
94 100

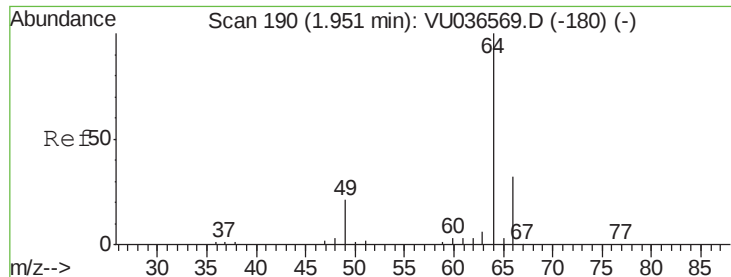
96 88.2 67.6 125.6



Abundance Ion 94.00 (93.70 to 94.70): VU036559.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU036559.D (-156) (-)





#8

Chloroethane

Concen: 0.312 ug/L m

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tgt Ion: 64 Resp: 2396

Ion Ratio Lower Upper

64 100

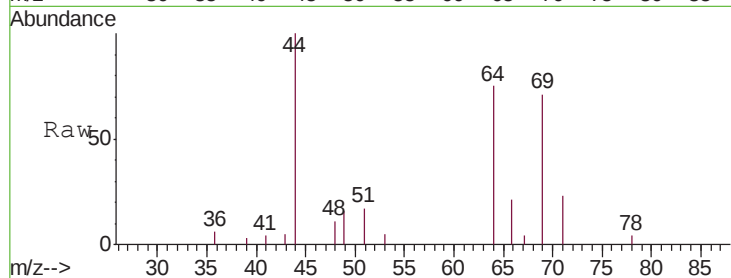
66 28.0 24.1 44.8

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VU036559.D (-180) (-)

Ion 66.05 (65.75 to 66.75): VU036559.D (-180) (-)

2500

2000

1500

1000

500

0

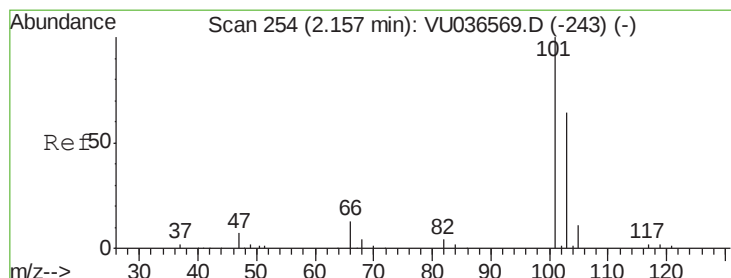
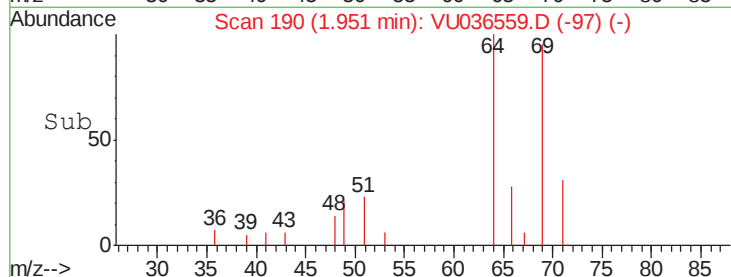
1.92

1.94

1.96

1.98

Time-->



#9

Trichlorofluoromethane

Concen: 0.242 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU036559.D

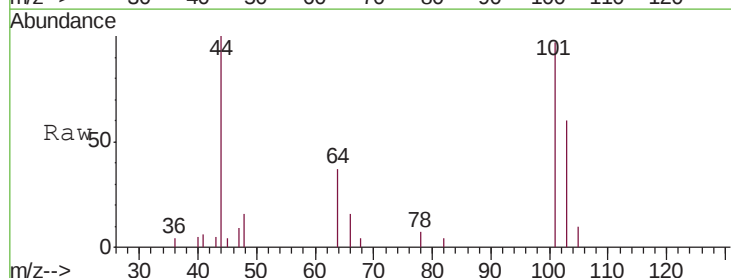
Acq: 24 Jan 2020 16:56

Tgt Ion: 101 Resp: 3503

Ion Ratio Lower Upper

101 100

103 64.8 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VU036559.D (-243) (-)

Ion 103.00 (102.70 to 103.70): VU036559.D (-243) (-)

3000

2500

2000

1500

1000

500

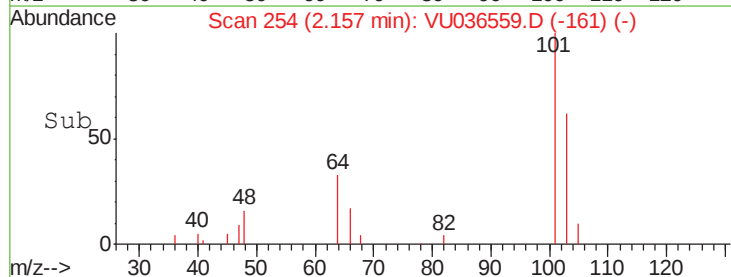
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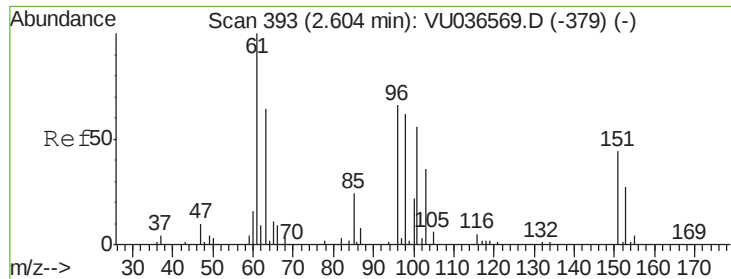
2.10

2.15

2.20

Time-->





#10

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

Concen: 0.294 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

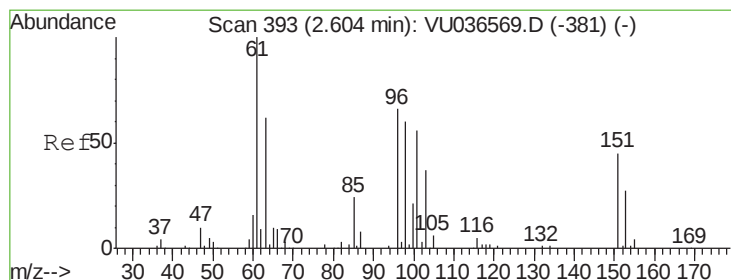
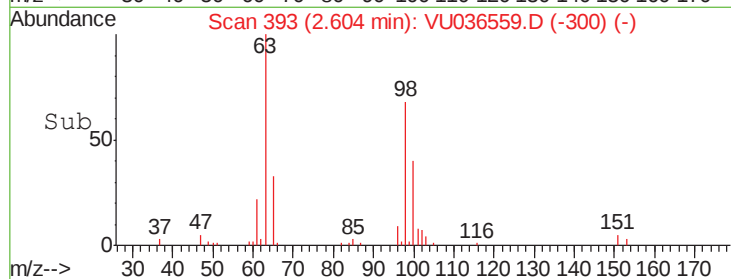
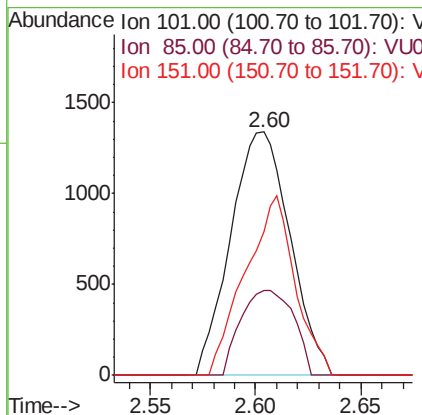
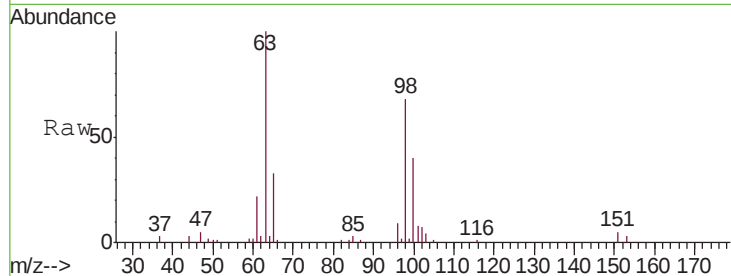
ClientSampleId :

MDL03

Tgt Ion:	101	Resp:	2620
Ion	Ratio	Lower	Upper
101	100		
85	30.9	32.2	48.4#
151	62.1	59.2	88.8

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#12

1,1-Dichloroethene

Concen: 0.300 ug/L

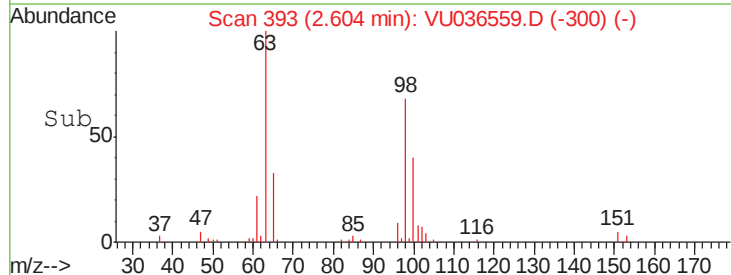
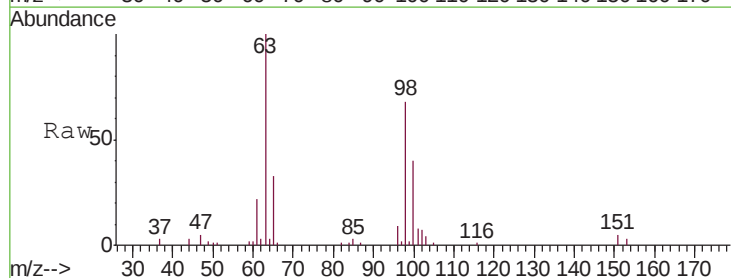
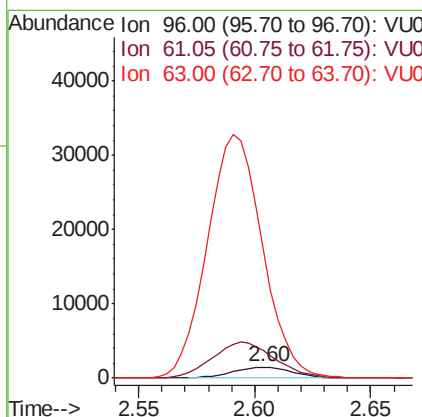
RT: 2.60 min Scan# 393

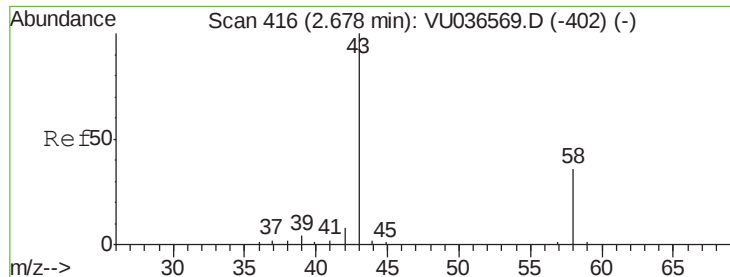
Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Tgt Ion:	96	Resp:	2656
Ion	Ratio	Lower	Upper
96	100		
61	243.0	108.2	201.0#
63	1120.2	72.0	133.8#





#13

Acetone

Concen: 5.622 ug/L m

RT: 2.68 min Scan# 418

Delta R.T. 0.00 min

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Tgt Ion: 43 Resp: 7509

Ion Ratio Lower Upper

43 100

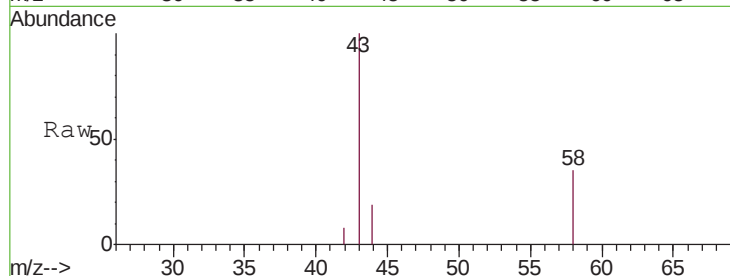
58 27.0 0.0 74.0

Manual Integrations

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Abundance Ion 43.05 (42.75 to 43.75): VU036559.D (-402) (-)

Ion 58.05 (57.75 to 58.75): VU036559.D (-402) (-)

2500

2000

1500

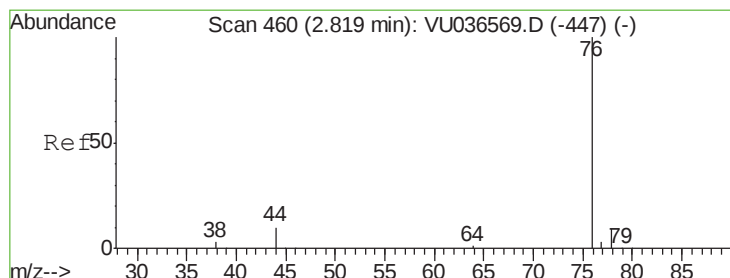
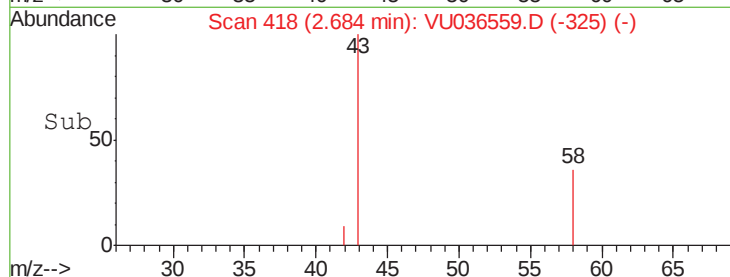
1000

500

0

2.60 2.65 2.70 2.75 2.80

Time-->



#14

Carbon disulfide

Concen: 0.252 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU036559.D

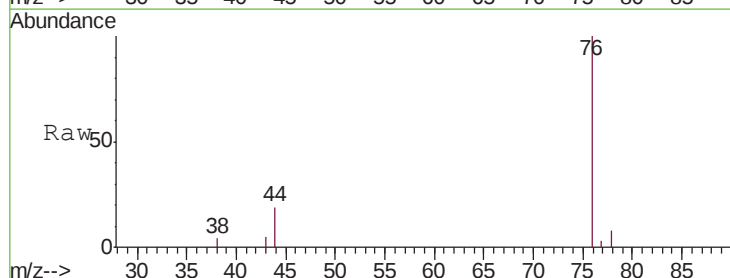
Acq: 24 Jan 2020 16:56

Tgt Ion: 76 Resp: 7003

Ion Ratio Lower Upper

76 100

78 7.6 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU036559.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU036559.D (-447) (-)

4000

3000

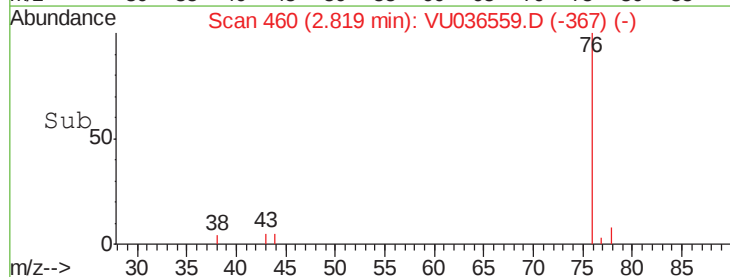
2000

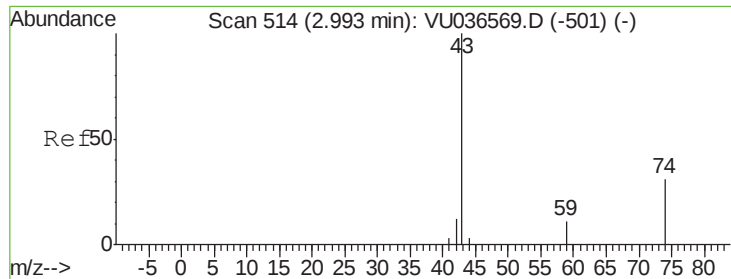
1000

0

2.75 2.80 2.85

Time-->





#15

Methyl Acetate

Concen: 0.271 ug/L

RT: 3.00 min Scan# 516

Delta R.T. 0.01 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tgt Ion: 43 Resp: 925

Ion Ratio Lower Upper

43 100

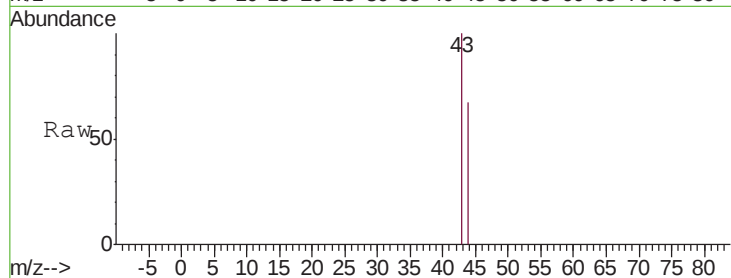
74 0.0 22.7 34.1#

Manual Integrations

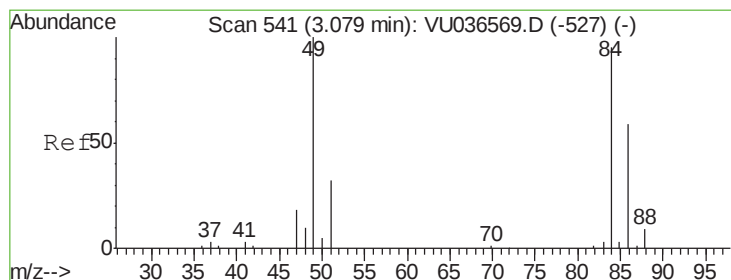
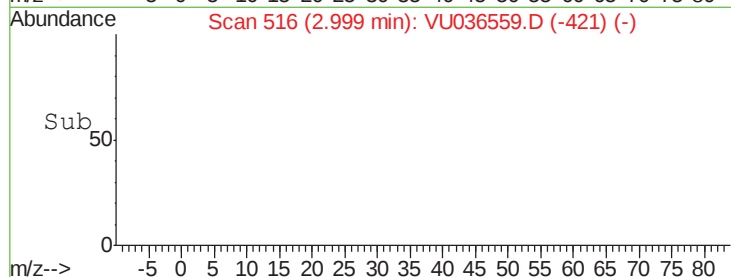
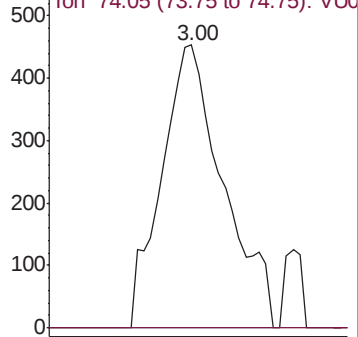
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Abundance Ion 43.05 (42.75 to 43.75): VU036559.D (-501) (-)



#16

Methylene chloride

Concen: 0.576 ug/L

RT: 3.08 min Scan# 541

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

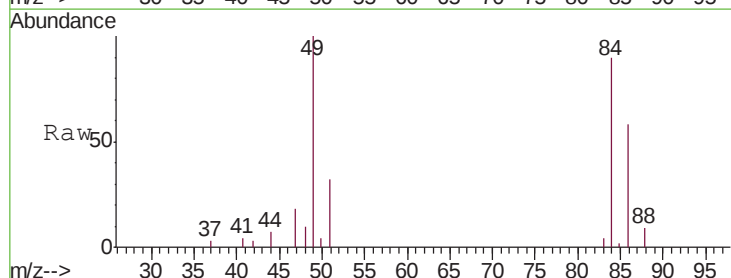
Tgt Ion: 84 Resp: 6929

Ion Ratio Lower Upper

84 100

86 64.8 44.8 83.2

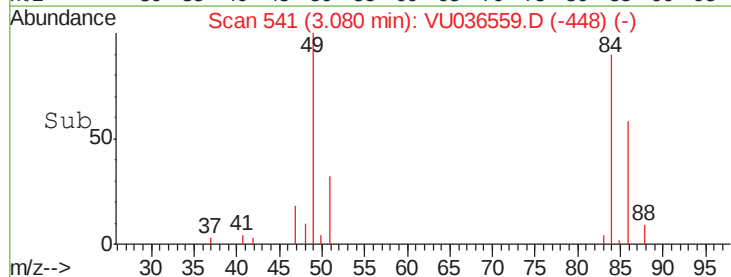
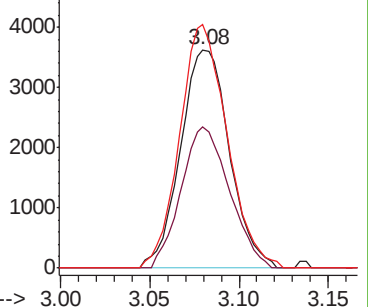
49 111.6 74.8 139.0

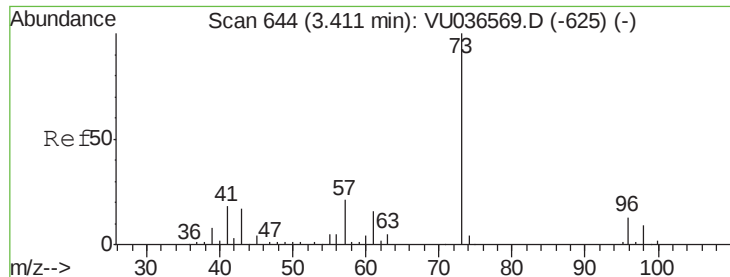


Abundance Ion 84.05 (83.75 to 84.75): VU036559.D (-527) (-)

Ion 86.00 (85.70 to 86.70): VU036559.D (-527) (-)

Ion 49.10 (48.80 to 49.80): VU036559.D (-527) (-)





#17

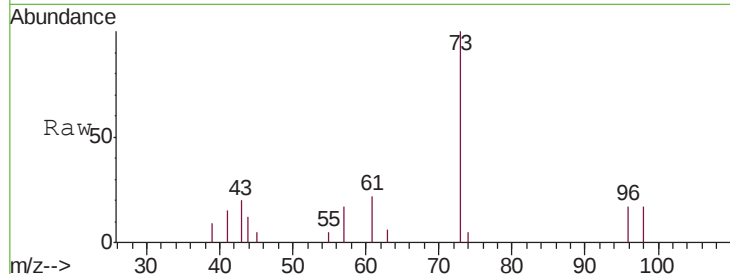
Methyl tert-butyl Ether
Concen: 0.239 ug/L
RT: 3.41 min Scan# 644
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Instrument :
MSVOA_U
ClientSampled :
MDL03

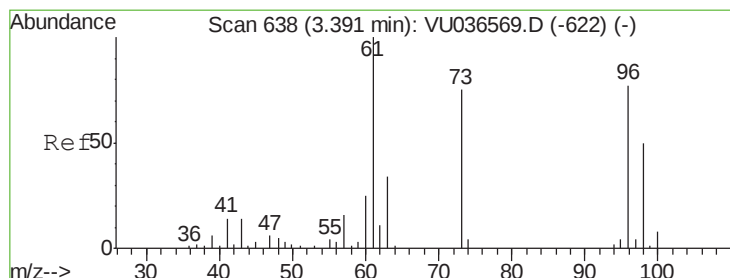
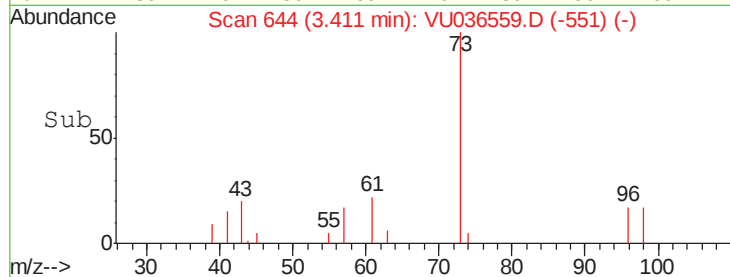
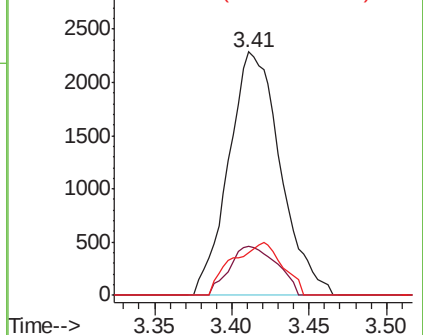
Tgt Ion: 73 Resp: 5314
Ion Ratio Lower Upper
73 100
43 18.4 14.6 21.8
57 21.1 17.0 25.6

Manual Integrations
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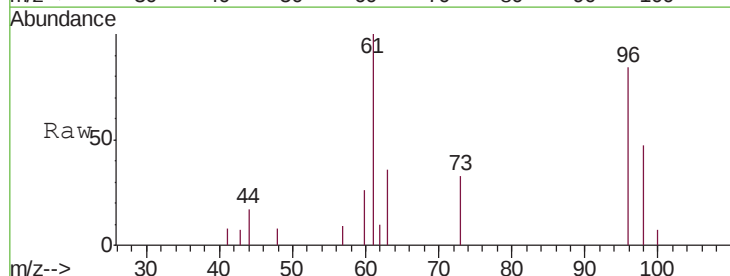
Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0



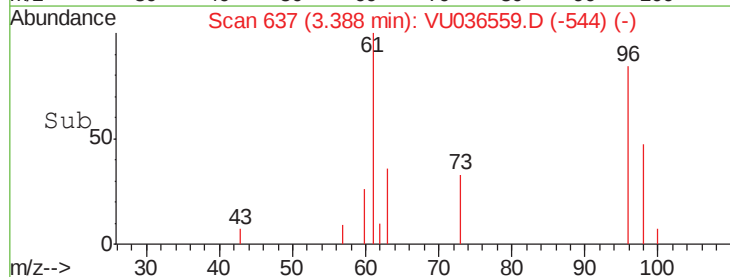
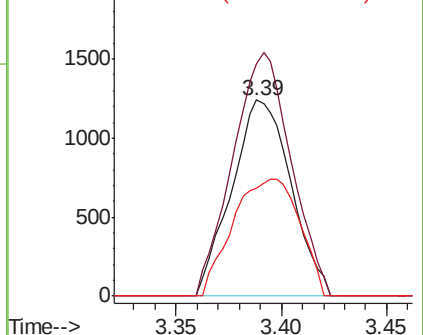
#18

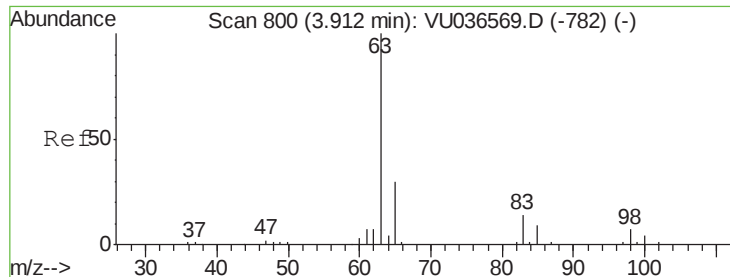
trans-1,2-Dichloroethene
Concen: 0.255 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Tgt Ion: 96 Resp: 2423
Ion Ratio Lower Upper
96 100
61 118.9 93.1 172.9
98 55.4 45.5 84.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 0.233 ug/L

RT: 3.92 min Scan# 801

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampled :

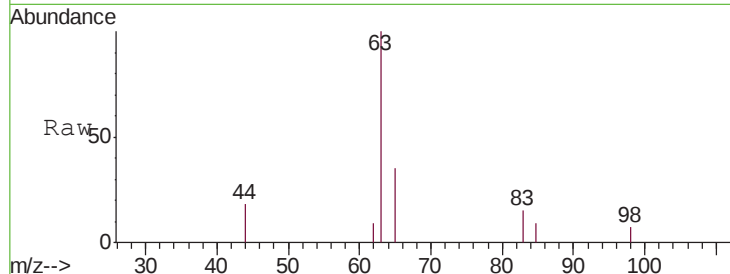
MDL03

Tgt Ion: 63 Resp: 3862

Ion	Ratio	Lower	Upper
63	100		
65	35.0	21.8	40.6
83	15.2	9.8	18.2

Manual Integrations
APPROVED

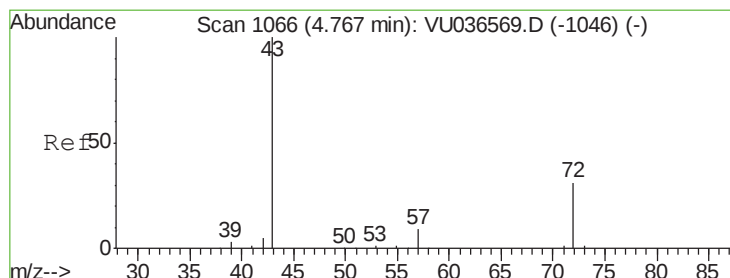
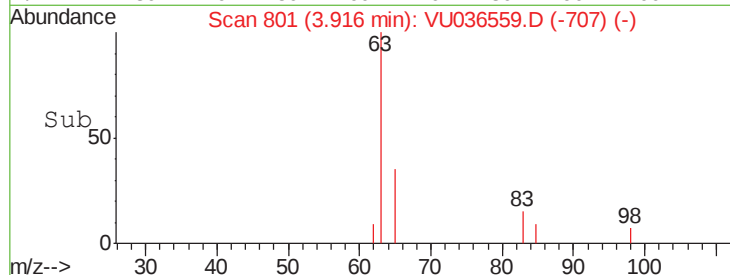
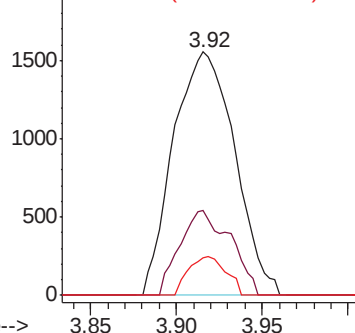
MMDadoda
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Abundance Ion 63.10 (62.80 to 63.80): VU036559.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU036559.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU036559.D (-782) (-)



#21

2-Butanone

Concen: 3.226 ug/L m

RT: 4.78 min Scan# 1070

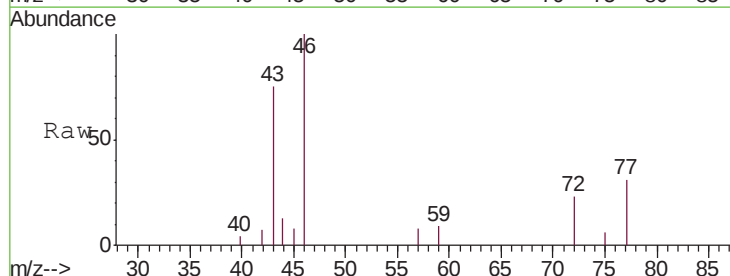
Delta R.T. 0.01 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

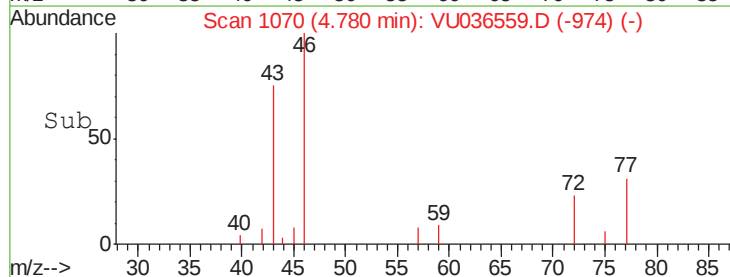
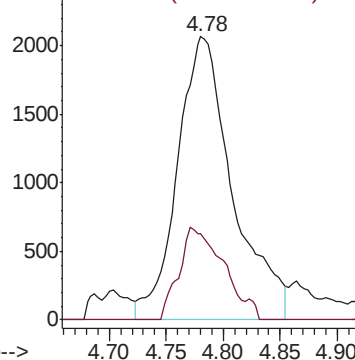
Tgt Ion: 43 Resp: 6968

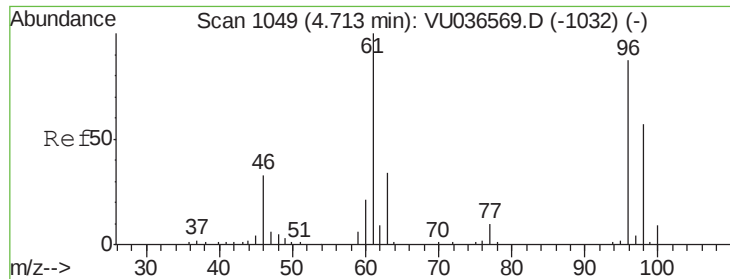
Ion	Ratio	Lower	Upper
43	100		
72	26.5	15.4	46.4



Abundance Ion 43.05 (42.75 to 43.75): VU036559.D (-1046) (-)

Ion 72.10 (71.80 to 72.80): VU036559.D (-1046) (-)





#22

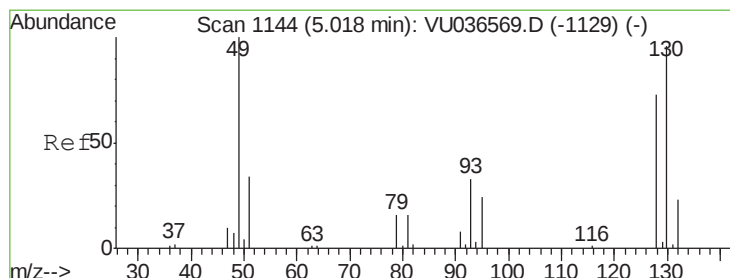
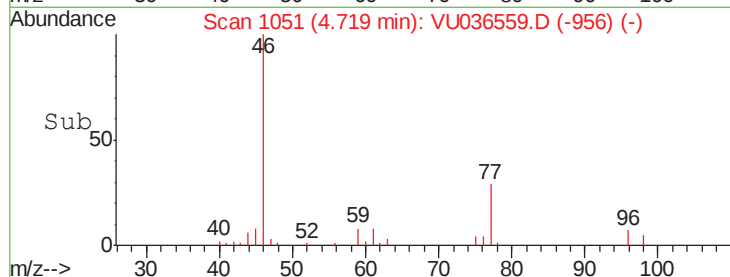
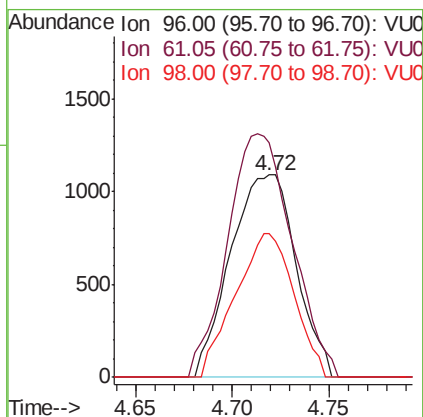
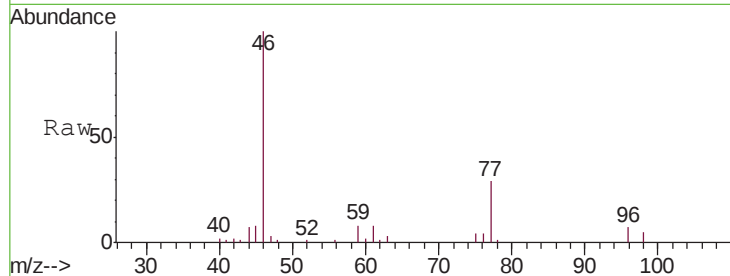
cis-1,2-Dichloroethene
Concen: 0.243 ug/L
RT: 4.72 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tgt Ion: 96 Resp: 2572
Ion Ratio Lower Upper
96 100
61 116.0 83.0 154.1
98 71.1 43.8 81.3

Manual Integrations
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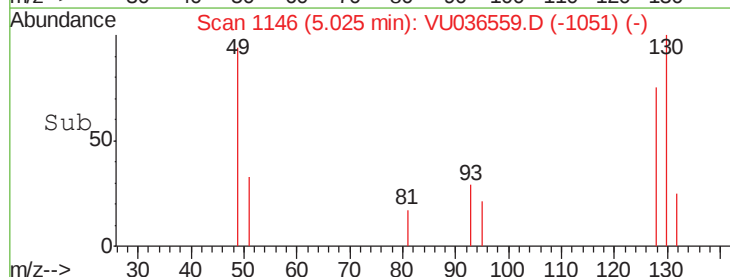
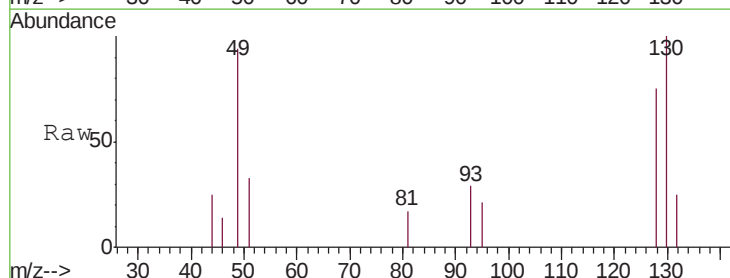
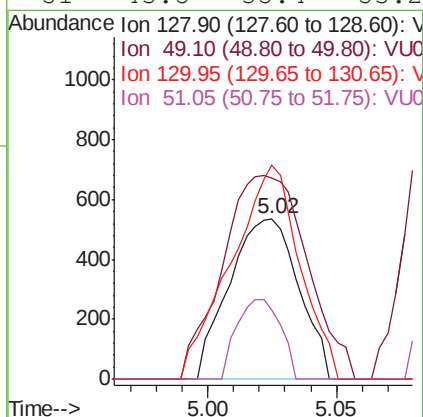
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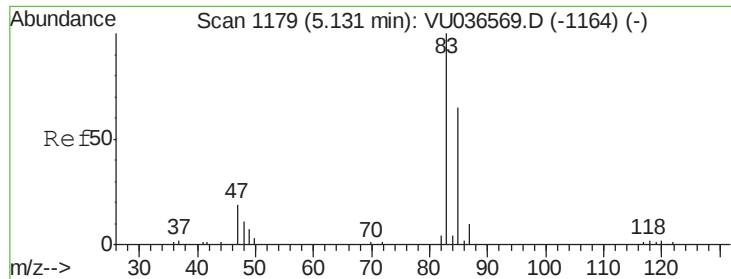


#23

Bromochloromethane
Concen: 0.225 ug/L
RT: 5.02 min Scan# 1146
Delta R.T. 0.01 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Tgt Ion: 128 Resp: 1004
Ion Ratio Lower Upper
128 100
49 125.6 98.6 183.2
130 133.2 89.1 165.5
51 43.5 35.4 53.2





#25

Chloroform

Concen: 0.286 ug/L

RT: 5.13 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampled :

MDL03

Tgt Ion: 83 Resp: 4716

Ion Ratio Lower Upper

83 100

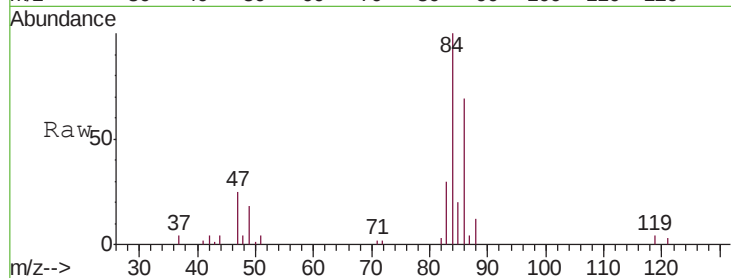
85 67.3 45.7 84.9

Manual Integrations

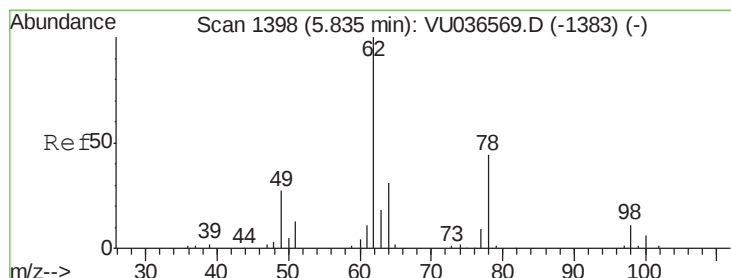
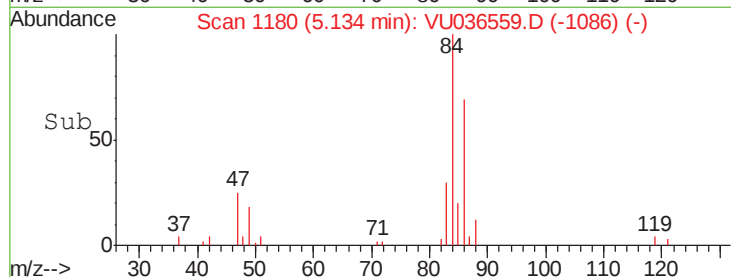
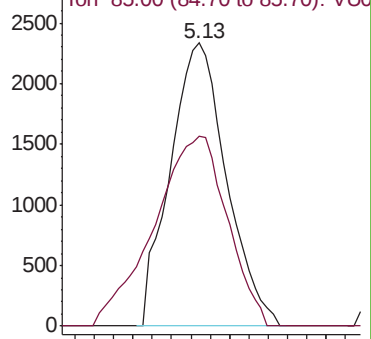
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Abundance Ion 83.05 (82.75 to 83.75): VU036569.D (-1164) (-)



#27

1,2-Dichloroethane

Concen: 0.243 ug/L

RT: 5.84 min Scan# 1400

Delta R.T. 0.01 min

Lab File: VU036559.D

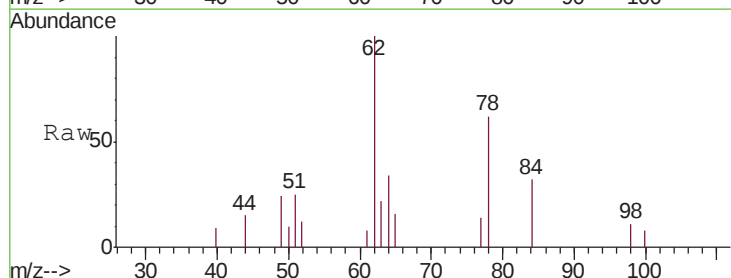
Acq: 24 Jan 2020 16:56

Tgt Ion: 62 Resp: 2515

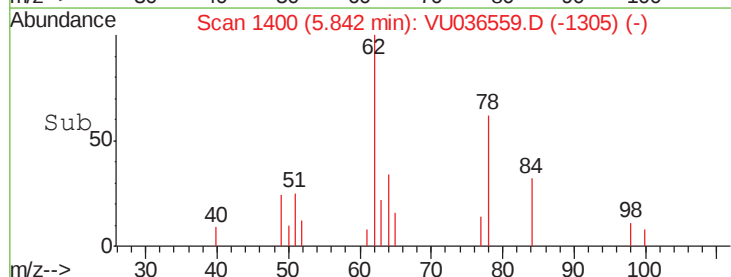
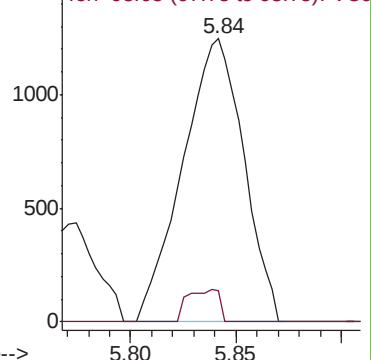
Ion Ratio Lower Upper

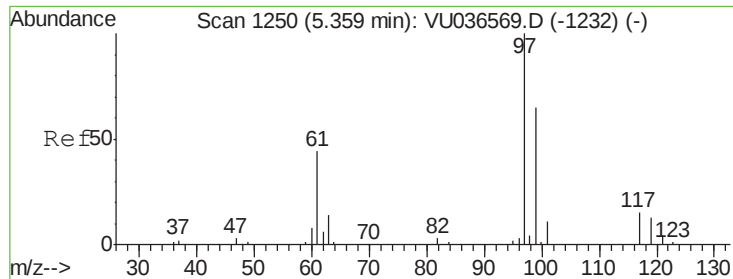
62 100

98 10.9 8.5 12.7



Abundance Ion 62.00 (61.70 to 62.70): VU036569.D (-1383) (-)





#29

1,1,1-Trichloroethane

Concen: 0.240 ug/L

RT: 5.36 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tgt Ion: 97 Resp: 3367

Ion Ratio Lower Upper

97 100

99 67.1 52.0 78.0

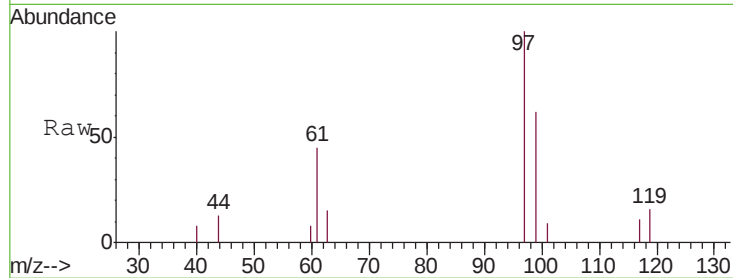
61 39.0 35.6 53.4

Manual Integrations

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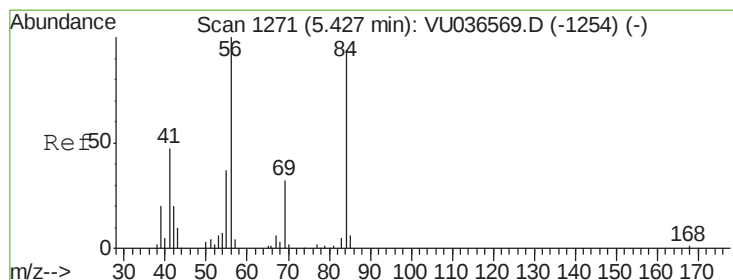
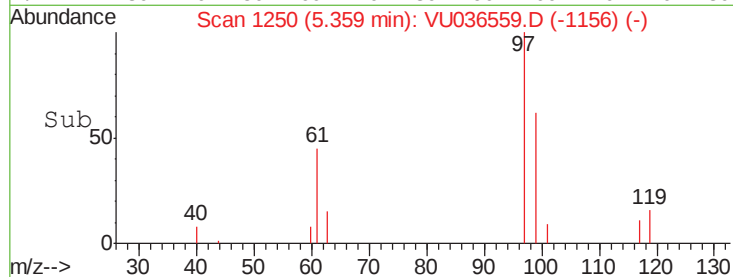
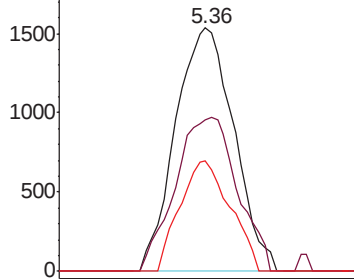
2/14/2020 12:24:03 PM



Abundance Ion 96.95 (96.65 to 97.65): VU036559.D (-1232) (-)

Ion 99.05 (98.75 to 99.75): VU036559.D (-1232) (-)

Ion 61.05 (60.75 to 61.75): VU036559.D (-1232) (-)



#30

Cyclohexane

Concen: 0.234 ug/L

RT: 5.43 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

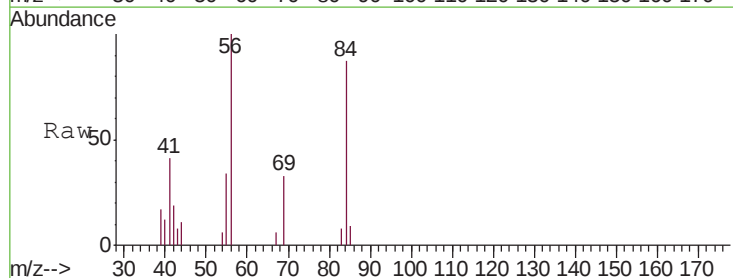
Tgt Ion: 56 Resp: 3756

Ion Ratio Lower Upper

56 100

69 31.2 25.7 38.5

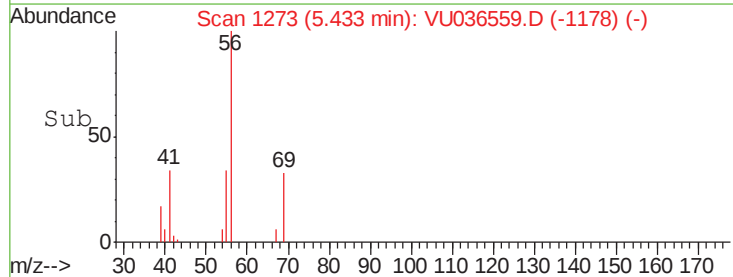
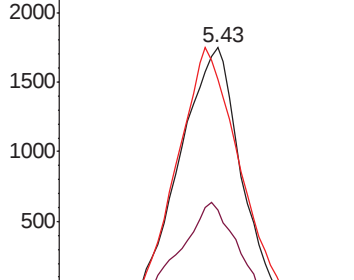
84 101.9 75.3 112.9

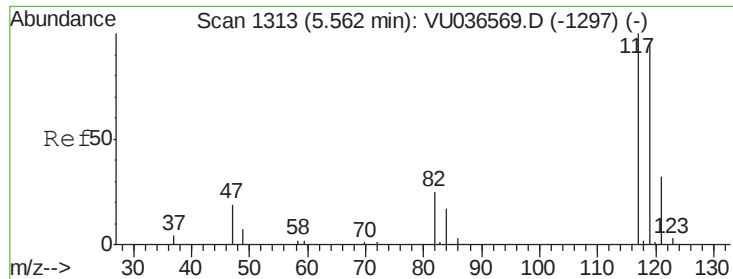


Abundance Ion 56.10 (55.80 to 56.80): VU036559.D (-1254) (-)

Ion 69.15 (68.85 to 69.85): VU036559.D (-1254) (-)

Ion 84.15 (83.85 to 84.85): VU036559.D (-1254) (-)





#31

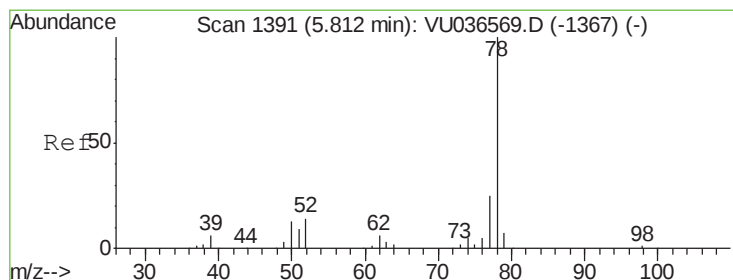
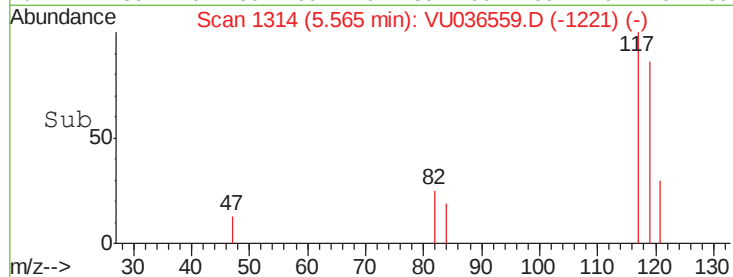
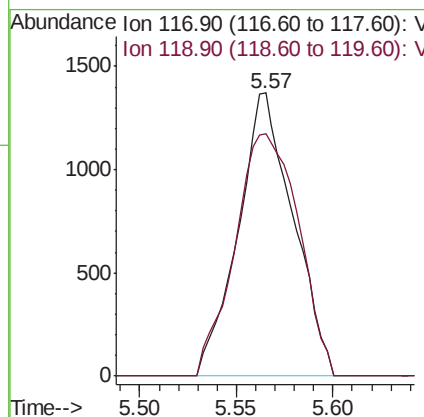
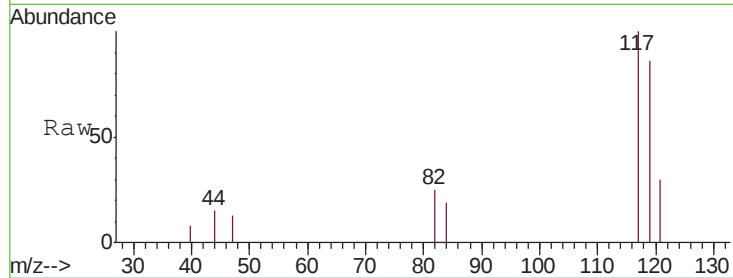
Carbon tetrachloride
Concen: 0.227 ug/L
RT: 5.57 min Scan# 1314
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tgt Ion:117 Resp: 2710
Ion Ratio Lower Upper
117 100
119 98.9 76.3 114.5

Manual Integrations
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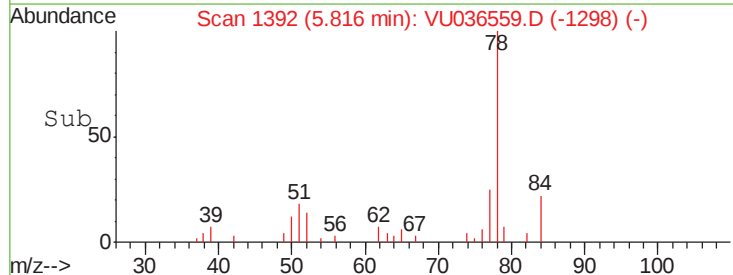
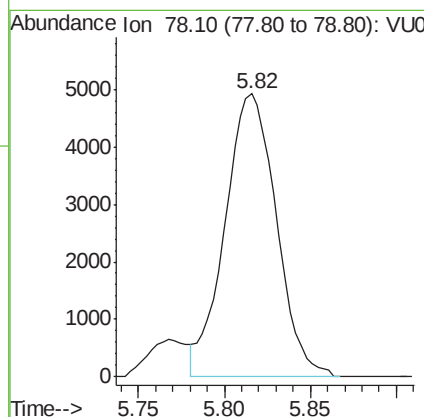
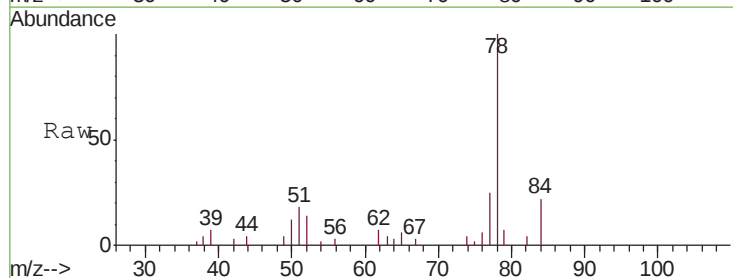
MMDadoda
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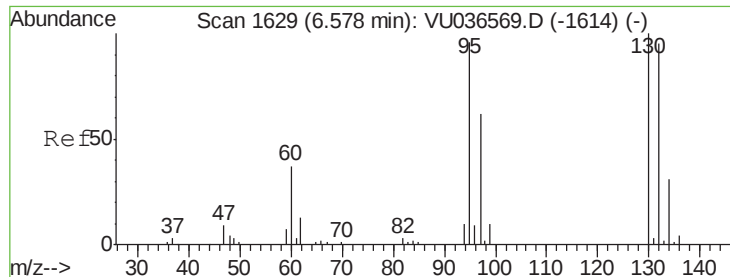


#33

Benzene
Concen: 0.259 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Tgt Ion: 78 Resp: 10257





#34

Trichloroethene

Concen: 0.254 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tgt Ion: 95 Resp: 2662

Ion Ratio Lower Upper

95 100

97 55.5 45.6 84.8

132 90.5 67.7 125.7

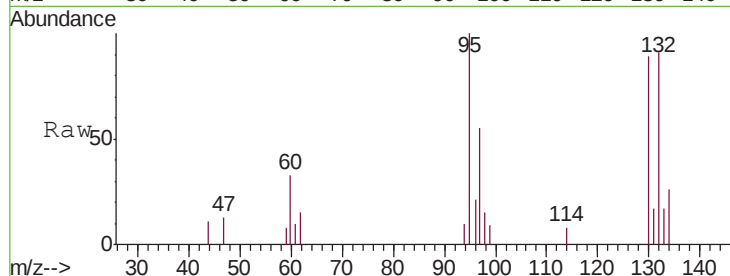
130 89.1 72.2 134.2

Manual Integrations

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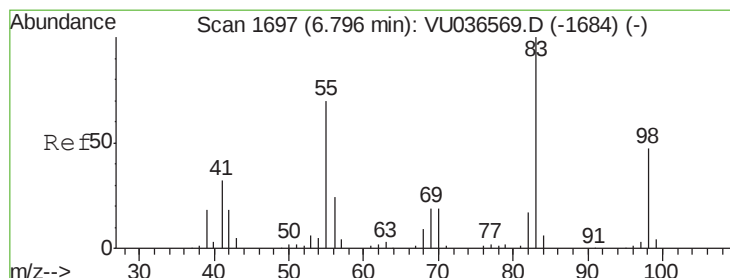
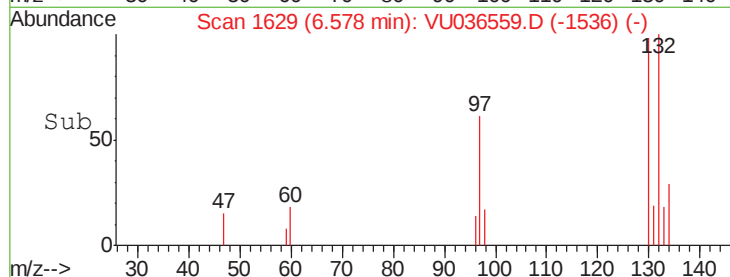
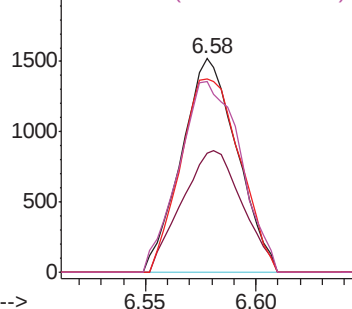


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.243 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Tgt Ion: 83 Resp: 4362

Ion Ratio Lower Upper

83 100

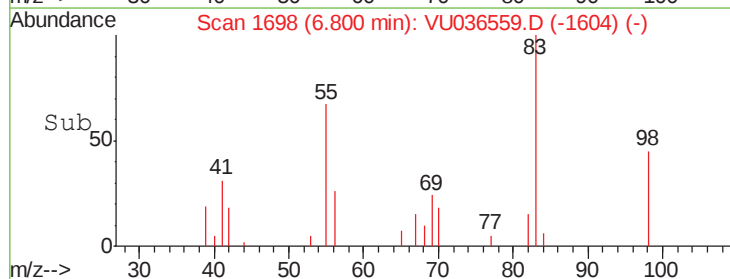
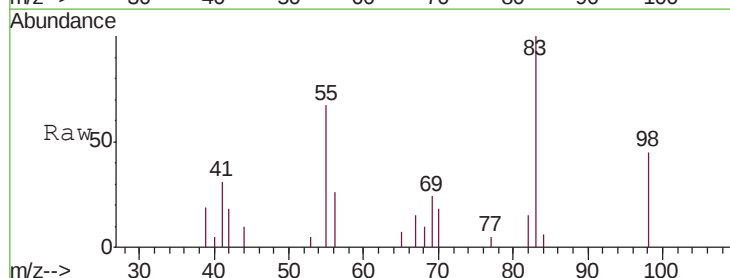
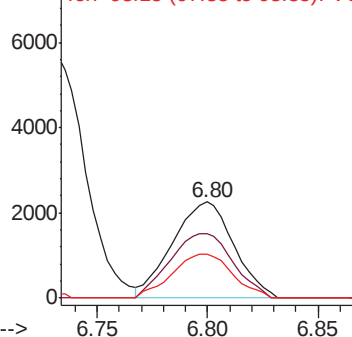
55 68.7 56.9 85.3

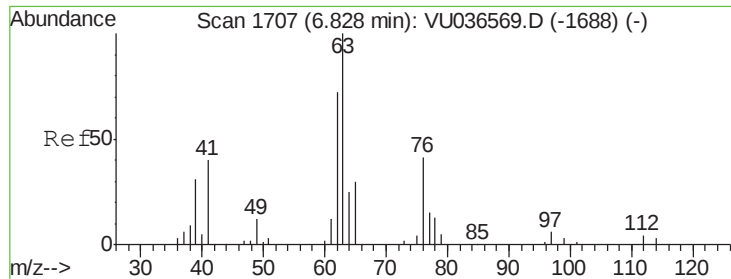
98 44.9 36.9 55.3

Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





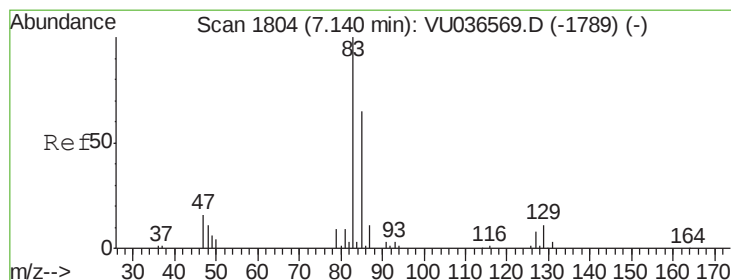
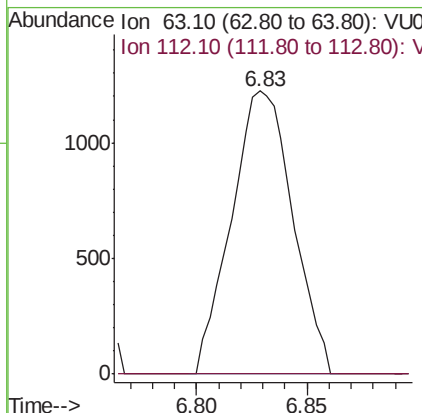
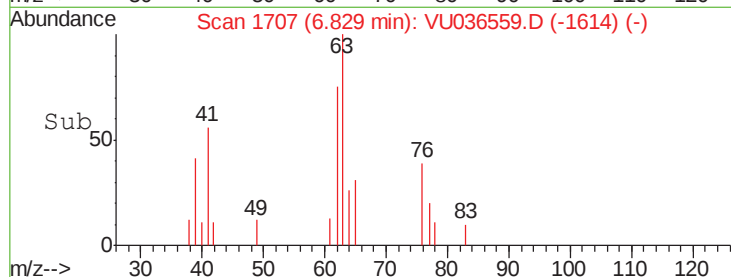
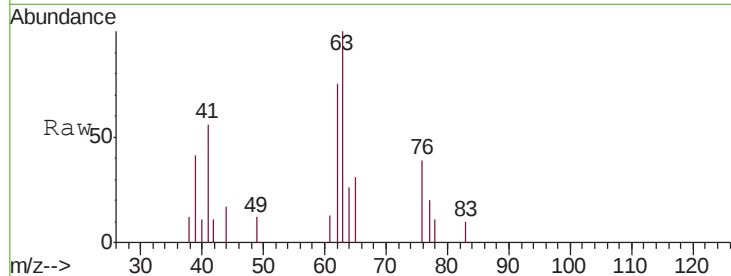
#37
 1,2-Dichloropropane
 Concen: 0.240 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. 0.00 min
 Lab File: VU036559.D
 Acq: 24 Jan 2020 16:56

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tgt Ion: 63 Resp: 2363
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.3 4.9#

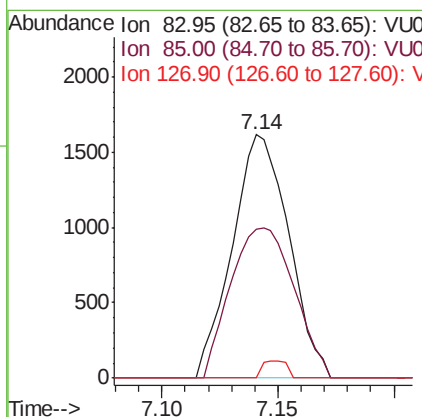
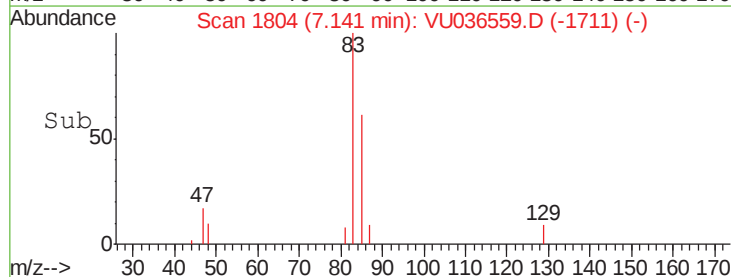
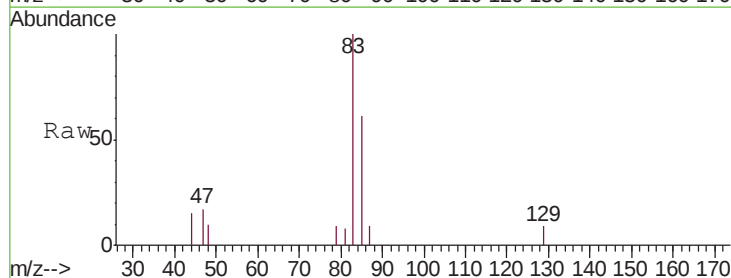
Manual Integrations
 APPROVED

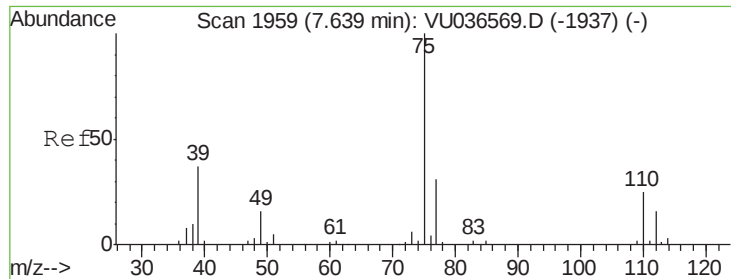
MMDadoda
 2/14/2020 12:24:03 PM



#38
 Bromodichloromethane
 Concen: 0.228 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VU036559.D
 Acq: 24 Jan 2020 16:56

Tgt Ion: 83 Resp: 2737
 Ion Ratio Lower Upper
 83 100
 85 61.3 44.7 82.9
 127 0.0 7.2 10.8#





#39

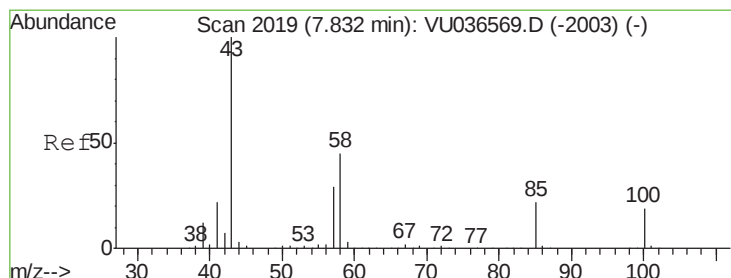
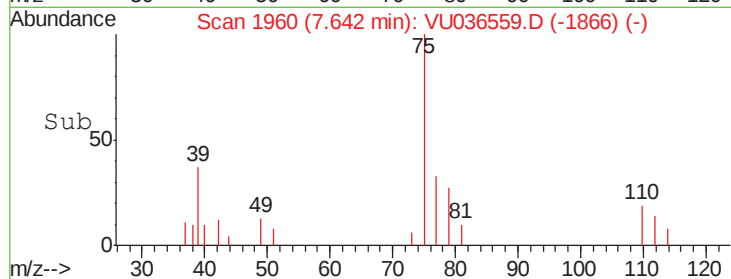
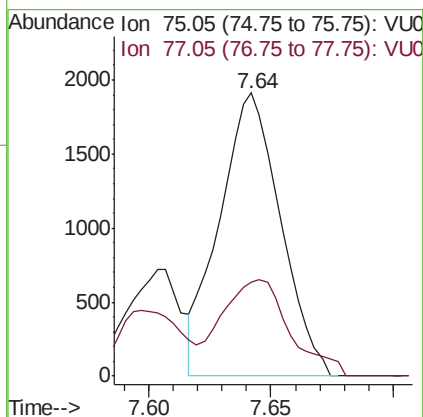
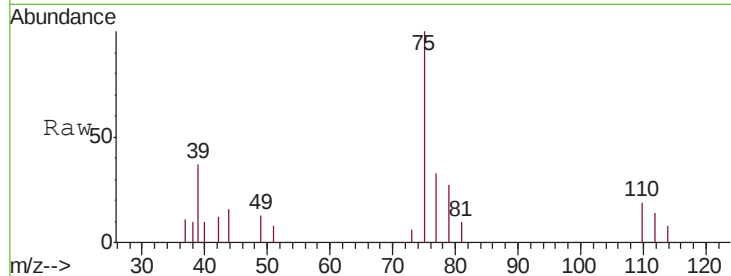
cis-1,3-Dichloropropene
Concen: 0.219 ug/L
RT: 7.64 min Scan# 1960
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tgt Ion: 75 Resp: 3322
Ion Ratio Lower Upper
75 100
77 33.1 22.3 41.5

Manual Integrations
APPROVED

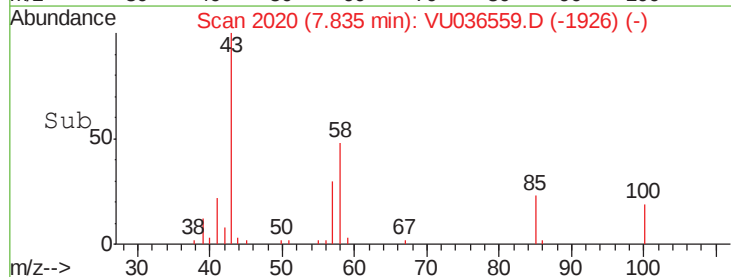
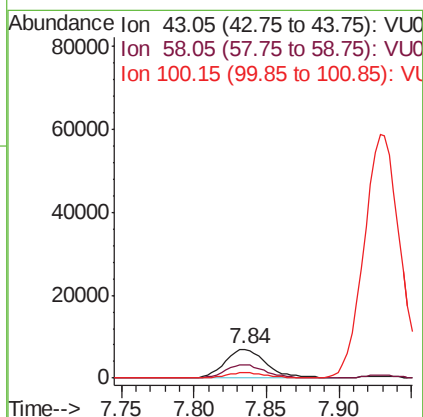
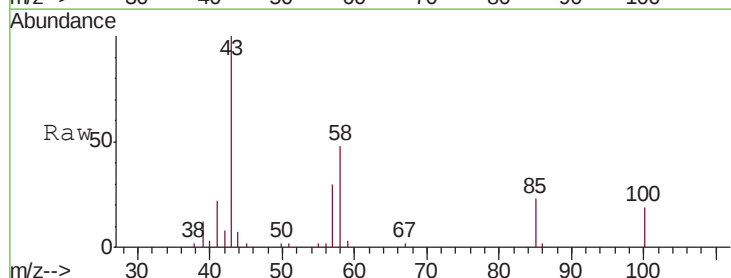
MMDadoda
2/14/2020 12:24:03 PM

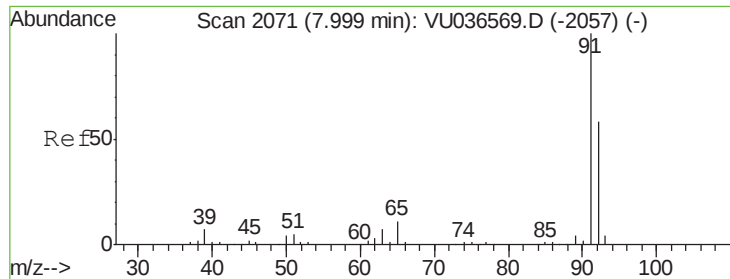


#40

4-Methyl-2-pentanone
Concen: 2.517 ug/L
RT: 7.84 min Scan# 2020
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Tgt Ion: 43 Resp: 13916
Ion Ratio Lower Upper
43 100
58 44.8 35.6 53.4
100 0.0 14.9 22.3#





#42

Toluene

Concen: 0.258 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tgt Ion: 91 Resp: 11283

Ion Ratio Lower Upper

91 100

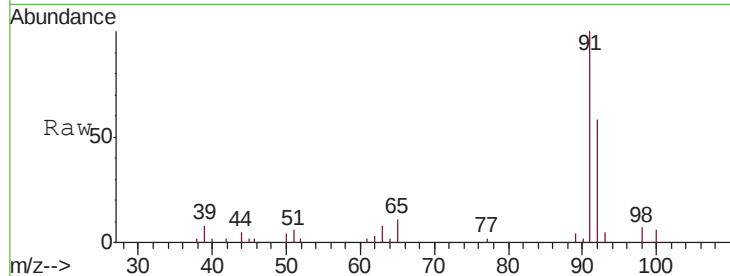
92 57.8 40.6 75.4

Manual Integrations

APPROVED

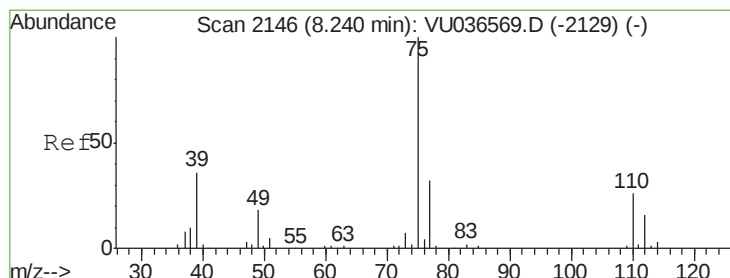
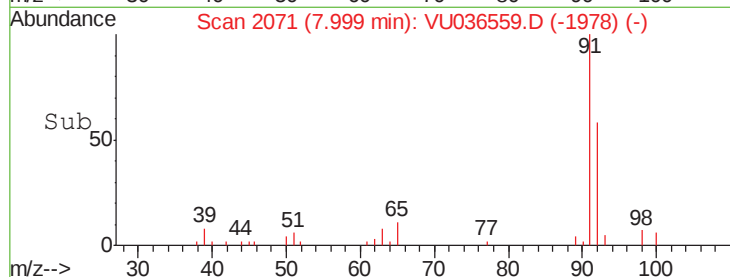
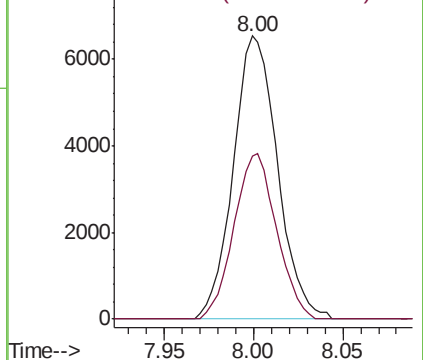
MMDadoda

2/14/2020 12:24:03 PM



Abundance Ion 91.15 (90.85 to 91.85): VU036559.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU036559.D (-2057) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.242 ug/L m

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036559.D

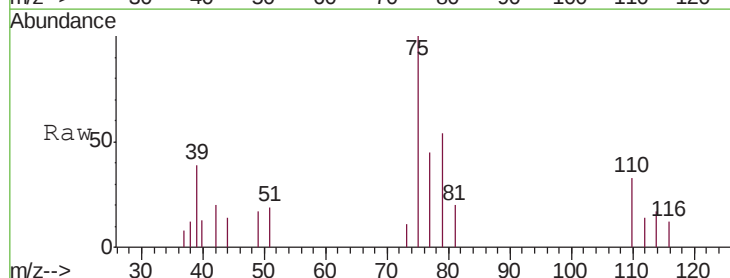
Acq: 24 Jan 2020 16:56

Tgt Ion: 75 Resp: 2826

Ion Ratio Lower Upper

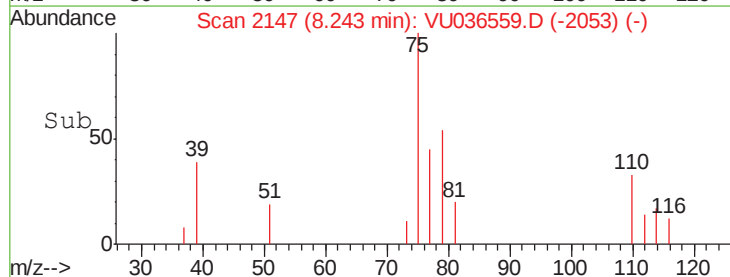
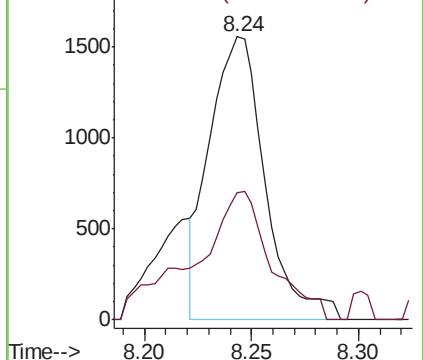
75 100

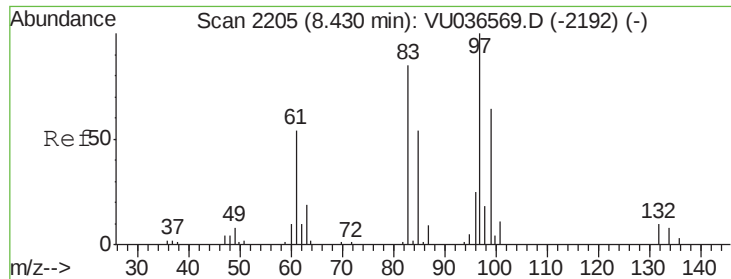
77 44.9 22.8 42.4#



Abundance Ion 75.05 (74.75 to 75.75): VU036559.D (-2129) (-)

Ion 77.05 (76.75 to 77.75): VU036559.D (-2129) (-)





#45
1,1,2-Trichloroethane
Concen: 0.224 ug/L
RT: 8.43 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

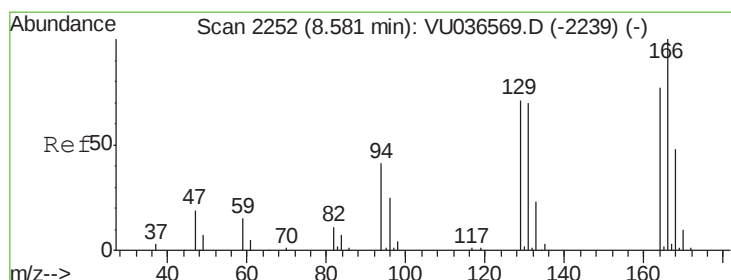
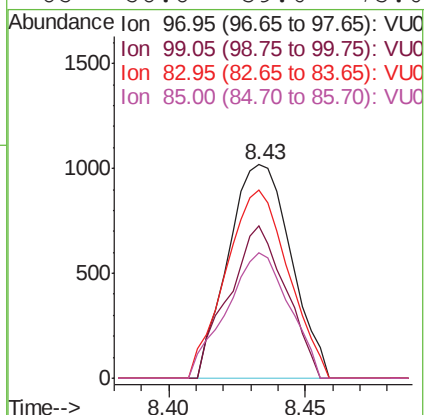
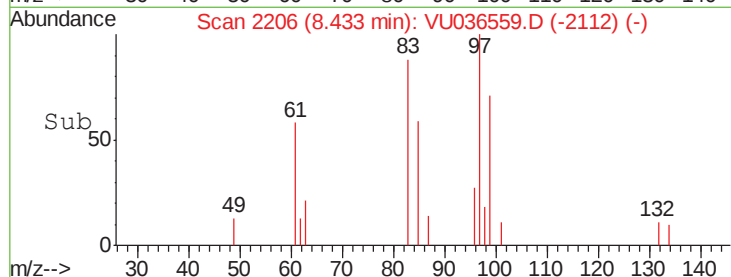
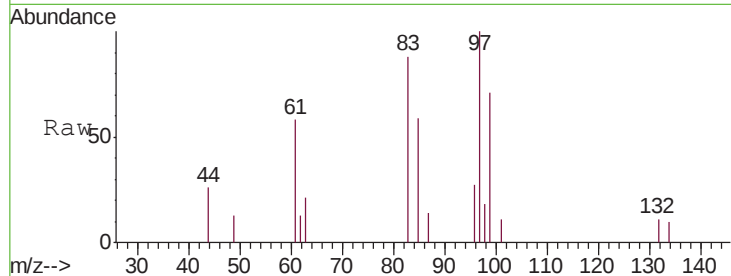
Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tgt Ion: 97 Resp: 1627

Ion	Ratio	Lower	Upper
97	100		
99	71.2	42.1	78.3
83	88.1	58.4	108.6
85	58.8	39.6	73.6

Manual Integrations
APPROVED

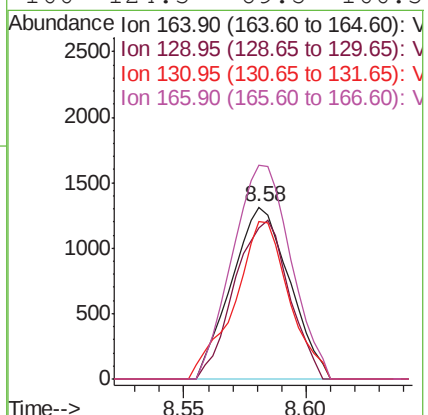
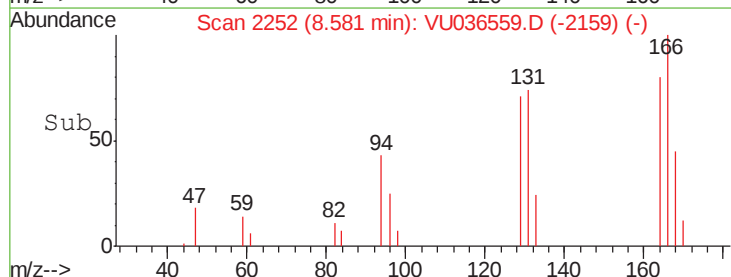
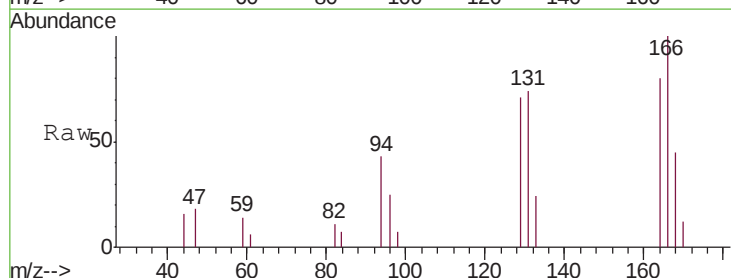
MMDadoda
2/14/2020 12:24:03 PM

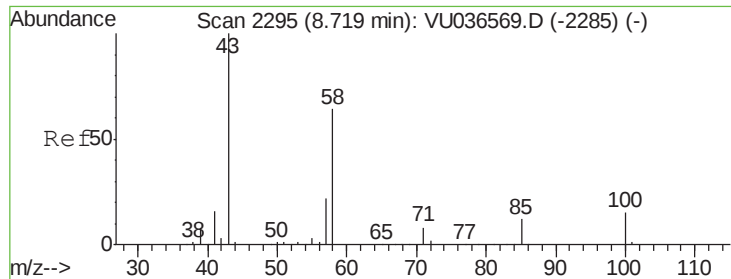


#47
Tetrachloroethene
Concen: 0.254 ug/L
RT: 8.58 min Scan# 2252
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Tgt Ion: 164 Resp: 2170

Ion	Ratio	Lower	Upper
164	100		
129	88.1	64.7	120.1
131	91.4	64.0	118.8
166	124.3	89.5	166.3





#48

2-Hexanone

Concen: 3.070 ug/L

RT: 8.72 min Scan# 2296

Delta R.T. 0.00 min

Lab File: VU036559.D

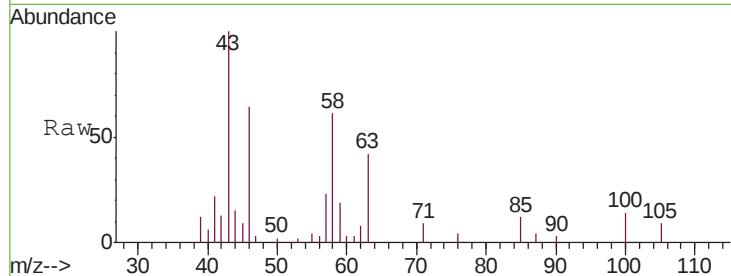
Acq: 24 Jan 2020 16:56

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tgt Ion:	43	Resp:	11713
Ion	Ratio	Lower	Upper
43	100		
58	60.2	50.2	75.2
57	22.1	17.5	26.3
100	12.2	11.5	17.3

Manual Integrations
APPROVED

MMDadoda
2/14/2020 12:24:03 PM



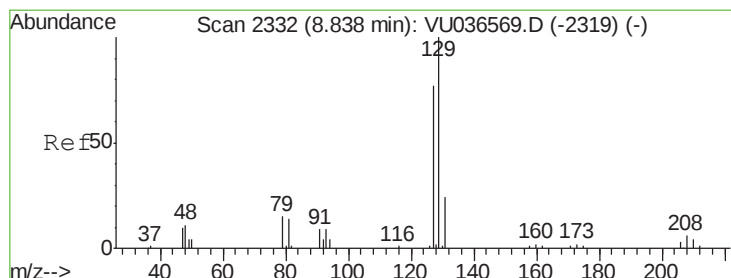
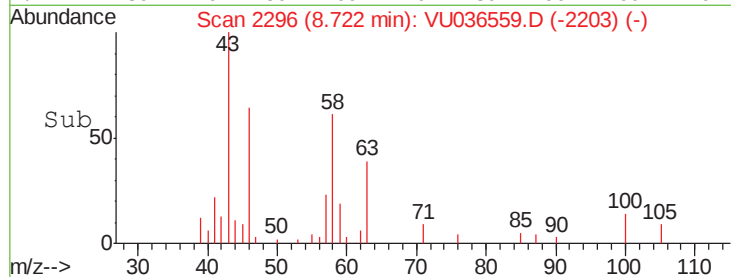
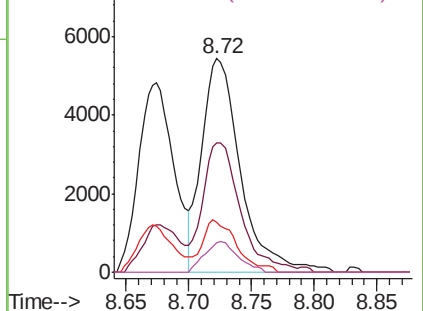
Abundance

Ion 43.05 (42.75 to 43.75): VU036559.D (-2285) (-)

Ion 58.05 (57.75 to 58.75): VU036559.D (-2285) (-)

Ion 57.20 (56.90 to 57.90): VU036559.D (-2285) (-)

Ion 100.15 (99.85 to 100.85): VU036559.D (-2285) (-)



#49

Dibromochloromethane

Concen: 0.228 ug/L

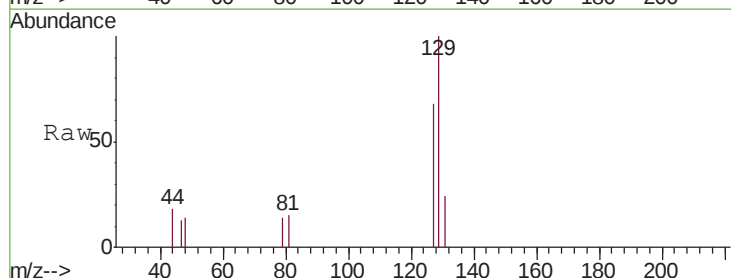
RT: 8.84 min Scan# 2333

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

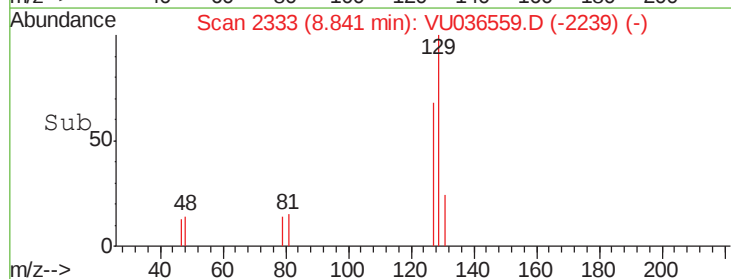
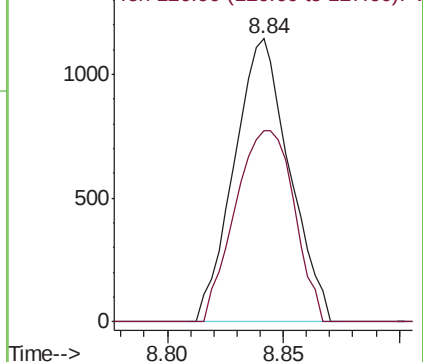
Tgt Ion:	129	Resp:	1901
Ion	Ratio	Lower	Upper
129	100		
127	67.7	54.5	101.3

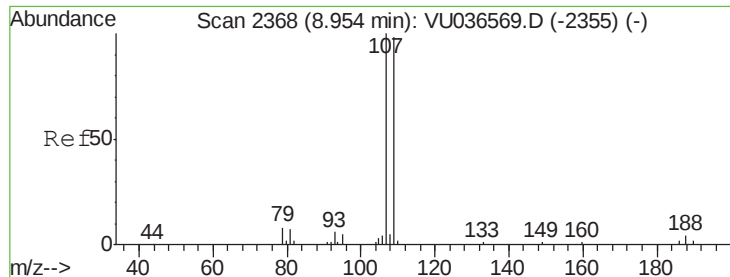


Abundance

Ion 128.95 (128.65 to 129.65): VU036559.D (-2319) (-)

Ion 126.90 (126.60 to 127.60): VU036559.D (-2319) (-)





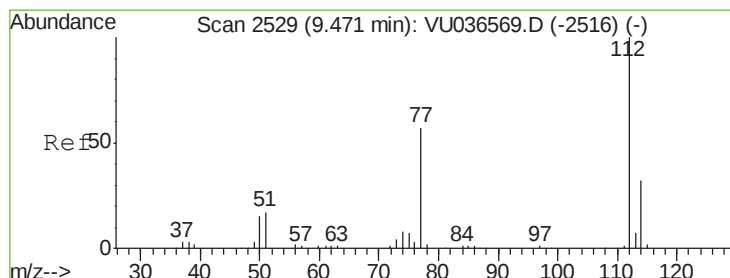
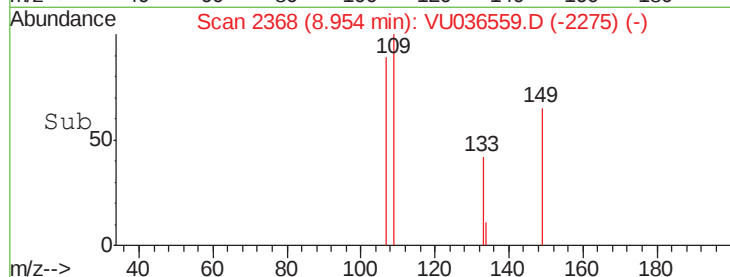
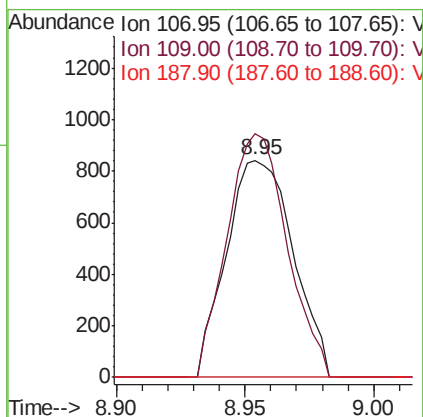
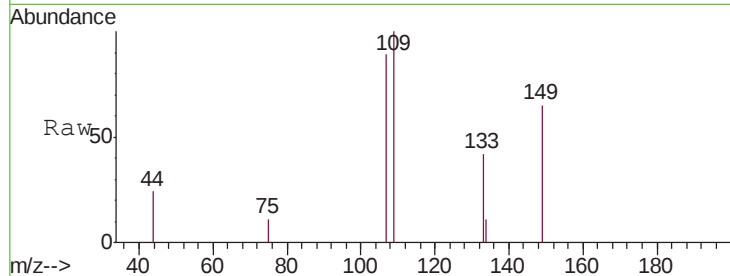
#50
1,2-Dibromoethane
Concen: 0.215 ug/L
RT: 8.95 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Instrument :
MSVOA_U
ClientSampleId :
MDL03

Tgt Ion:107 Resp: 1521
Ion Ratio Lower Upper
107 100
109 112.2 64.5 119.9
188 0.0 2.8 4.2#

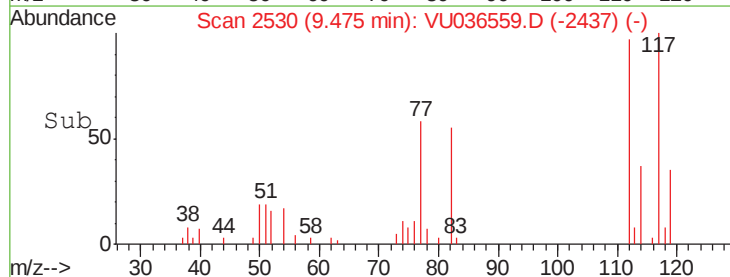
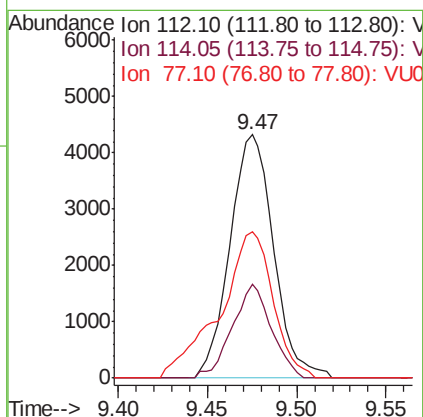
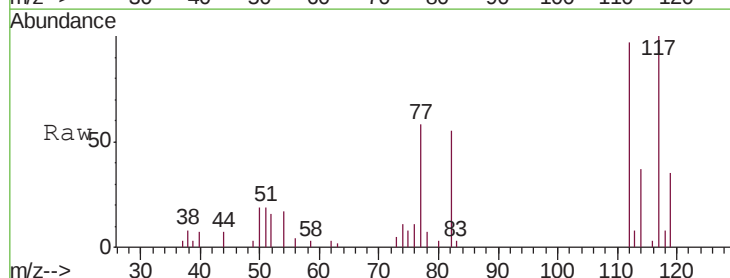
Manual Integrations
APPROVED

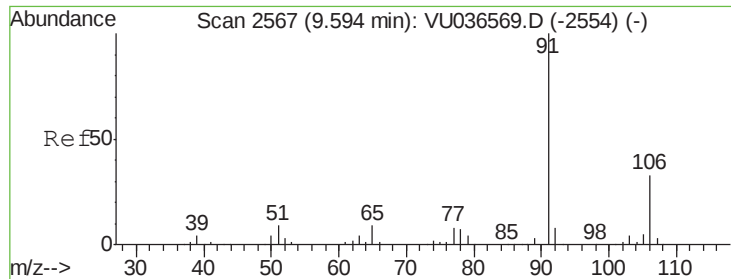
MMDadoda
2/14/2020 12:24:03 PM



#51
Chlorobenzene
Concen: 0.263 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Tgt Ion:112 Resp: 7389
Ion Ratio Lower Upper
112 100
114 38.6 23.2 43.2
77 60.2 45.9 68.9





#52

Ethylbenzene

Concen: 0.258 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tgt Ion: 91 Resp: 12245

Ion Ratio Lower Upper

91 100

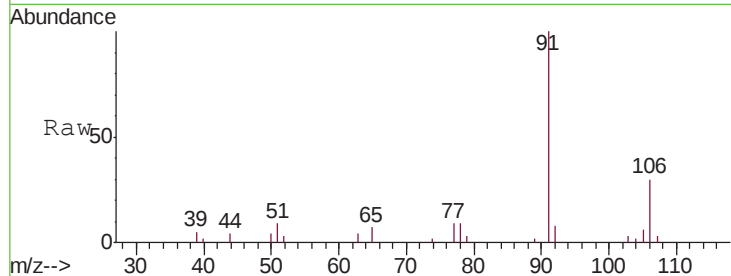
106 30.1 22.3 41.3

Manual Integrations

APPROVED

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2/14/2020 12:24:03 PM



Abundance Ion 91.15 (90.85 to 91.85): VU036569.D (-2554) (-)

Ion 106.15 (105.85 to 106.85): VU036569.D (-2554) (-)

9.60

8000

6000

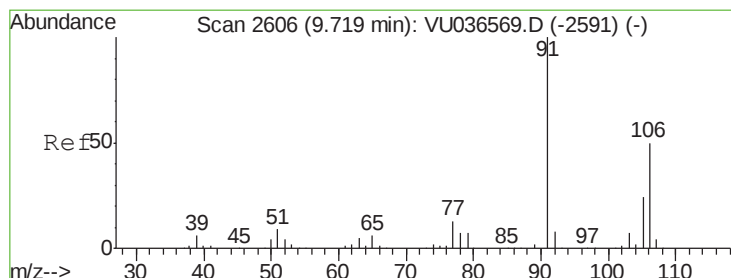
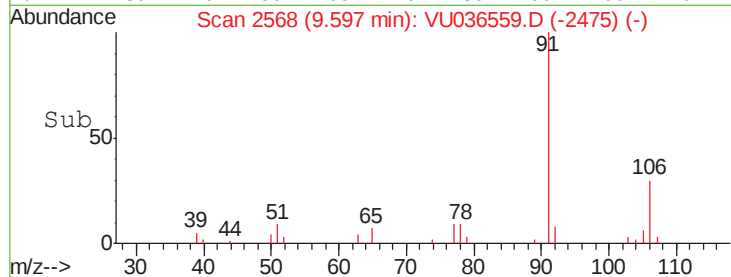
4000

2000

0

9.55 9.60 9.65

Time-->



#53

m,p-Xylene

Concen: 0.255 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VU036559.D

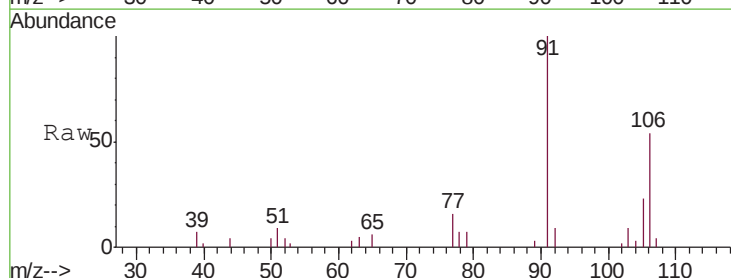
Acq: 24 Jan 2020 16:56

Tgt Ion: 106 Resp: 4707

Ion Ratio Lower Upper

106 100

91 184.6 141.4 262.6



Abundance Ion 106.15 (105.85 to 106.85): VU036569.D (-2591) (-)

Ion 91.15 (90.85 to 91.85): VU036569.D (-2591) (-)

9.72

6000

5000

4000

3000

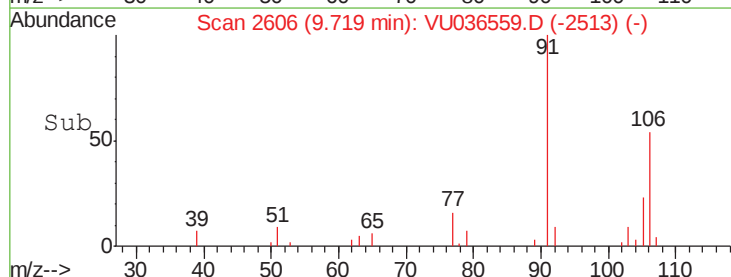
2000

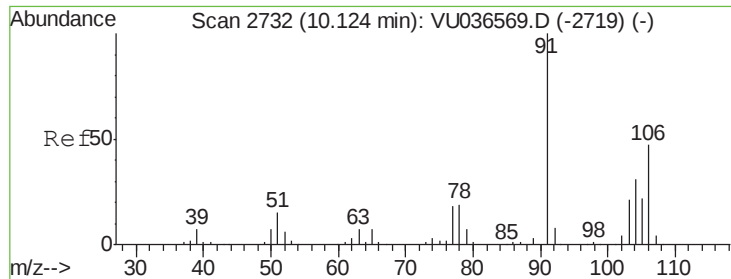
1000

0

9.70 9.75

Time-->





#54

o-Xylene

Concen: 0.247 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tgt Ion:106 Resp: 4457

Ion Ratio Lower Upper

106 100

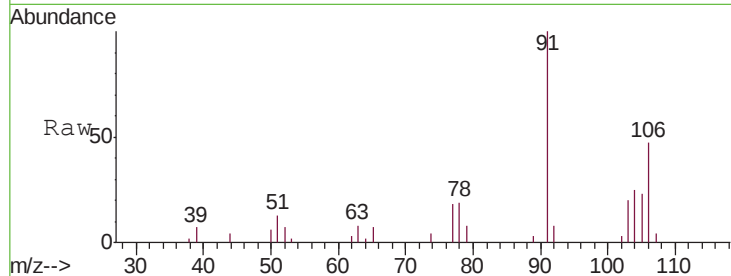
91 212.5 146.2 271.4

Manual Integrations

APPROVED

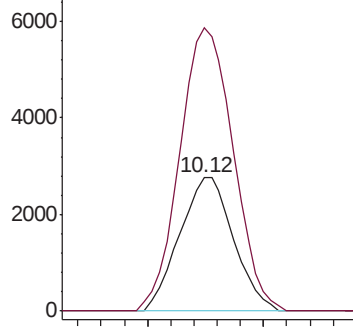
MMDadoda

2/14/2020 12:24:03 PM

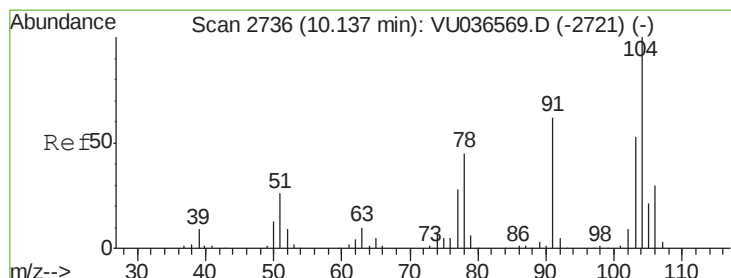
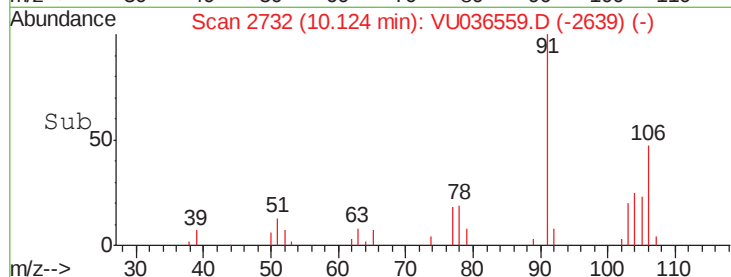


Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



Time-->



#55

Styrene

Concen: 0.233 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036559.D

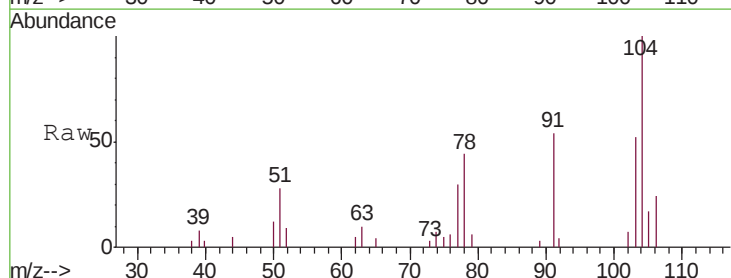
Acq: 24 Jan 2020 16:56

Tgt Ion:104 Resp: 6906

Ion Ratio Lower Upper

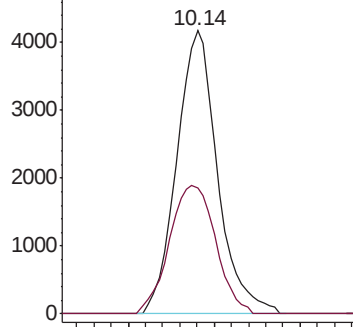
104 100

78 44.4 31.9 59.2

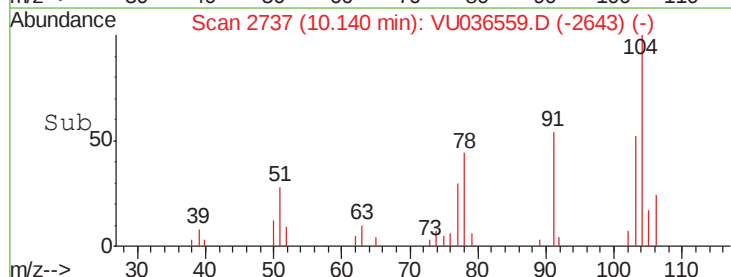


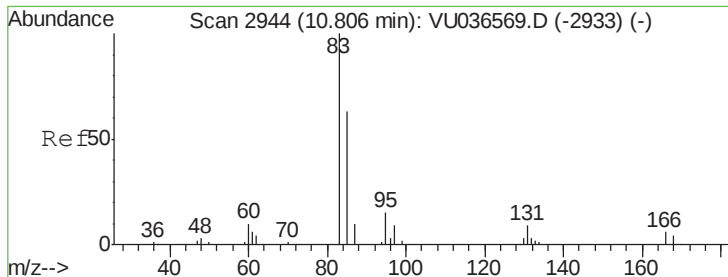
Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0



Time-->





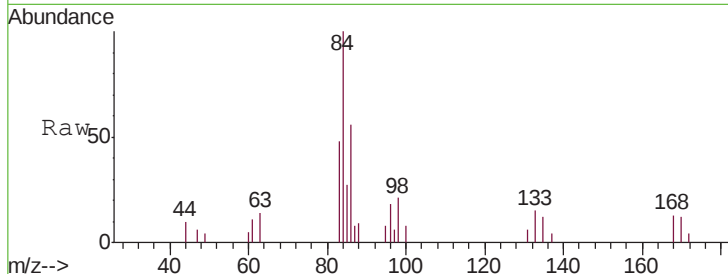
#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.238 ug/L
 RT: 10.81 min Scan# 2944
 Delta R.T. 0.00 min
 Lab File: VU036559.D
 Acq: 24 Jan 2020 16:56

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

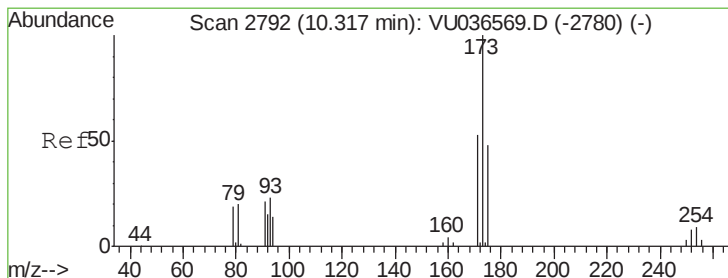
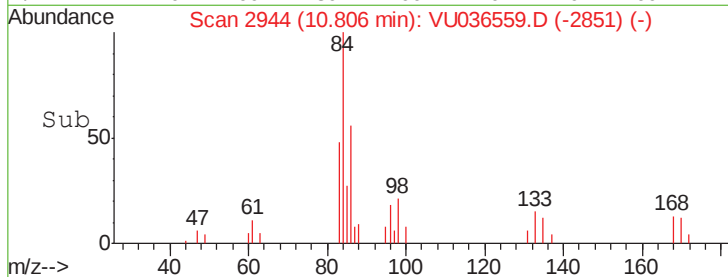
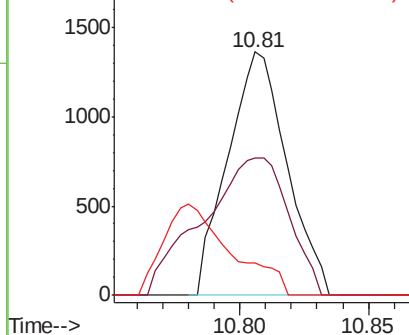
Tgt Ion: 83 Resp: 2174
 Ion Ratio Lower Upper
 83 100
 85 56.5 47.0 87.4
 131 13.4 8.1 12.1#

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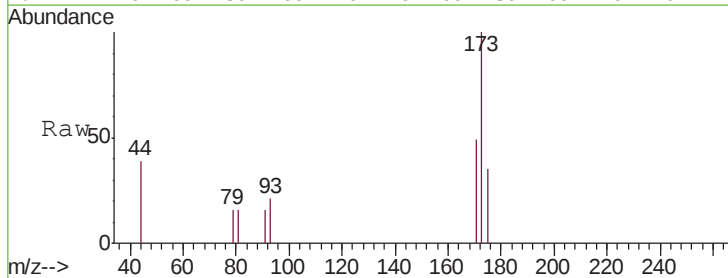


Abundance Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0
 Ion 130.95 (130.65 to 131.65): V

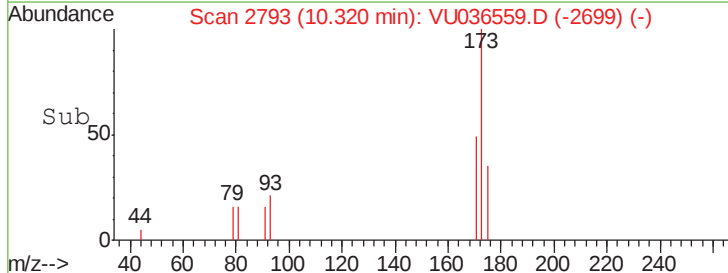
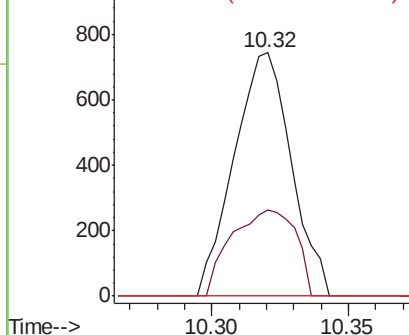


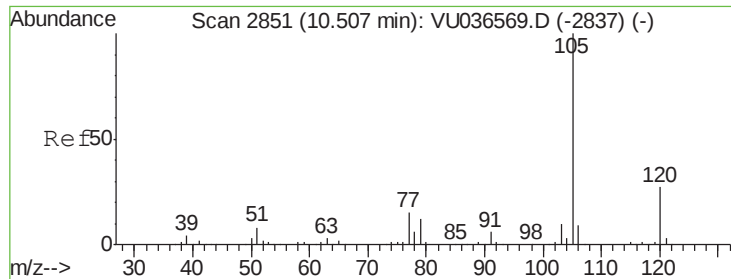
#59
 Bromoform
 Concen: 0.247 ug/L
 RT: 10.32 min Scan# 2793
 Delta R.T. 0.00 min
 Lab File: VU036559.D
 Acq: 24 Jan 2020 16:56

Tgt Ion: 173 Resp: 1082
 Ion Ratio Lower Upper
 173 100
 175 40.0 39.0 58.4
 254 0.0 6.3 9.5#



Abundance Ion 172.90 (172.60 to 173.60): V
 Ion 174.90 (174.60 to 175.60): V
 Ion 253.75 (253.45 to 254.45): V





#60

Isopropylbenzene

Concen: 0.255 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampleId :

MDL03

Tgt Ion: 105 Resp: 11243

Ion Ratio Lower Upper

105 100

120 26.2 21.5 32.3

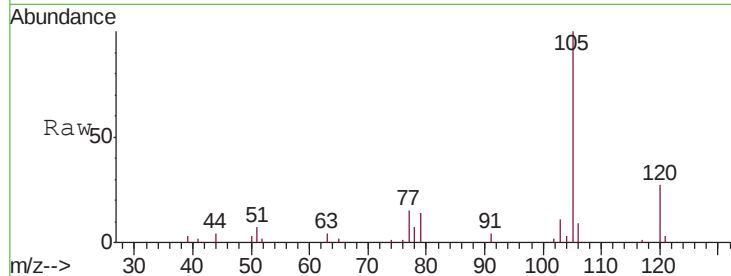
77 14.1 12.2 18.2

Manual Integrations

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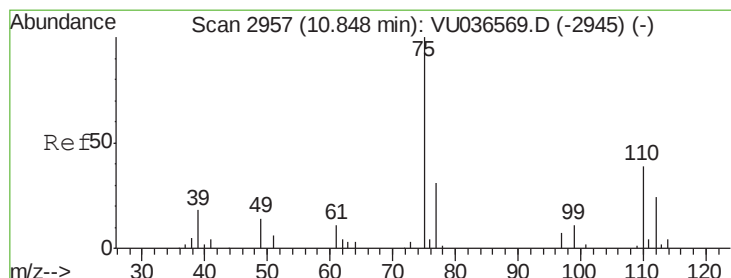
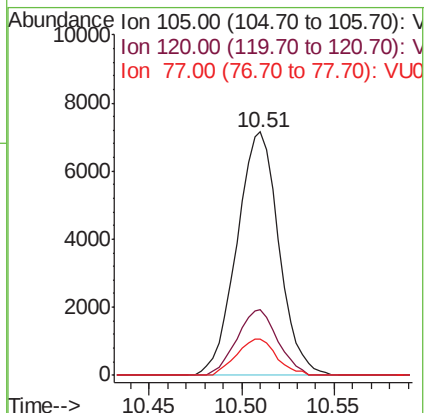
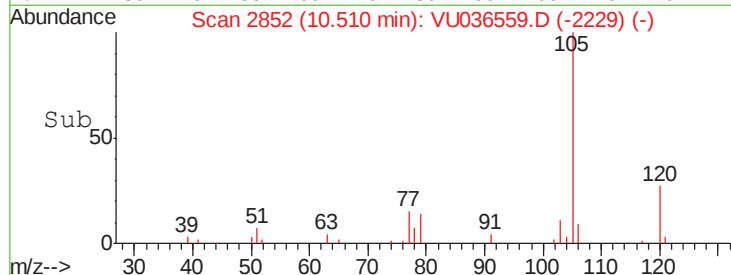
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0



#61

1,2,3-Trichloropropane

Concen: 0.259 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

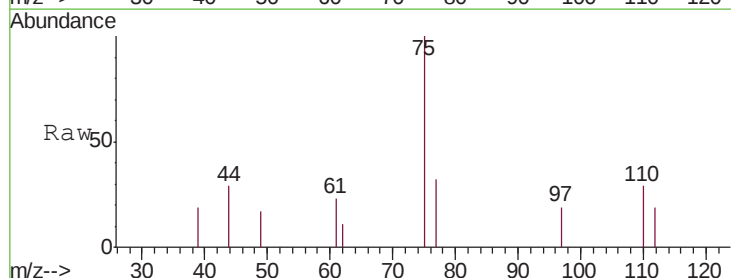
Tgt Ion: 75 Resp: 1571

Ion Ratio Lower Upper

75 100

110 31.8 29.0 43.4

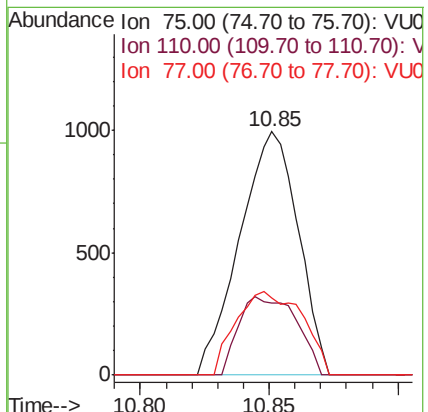
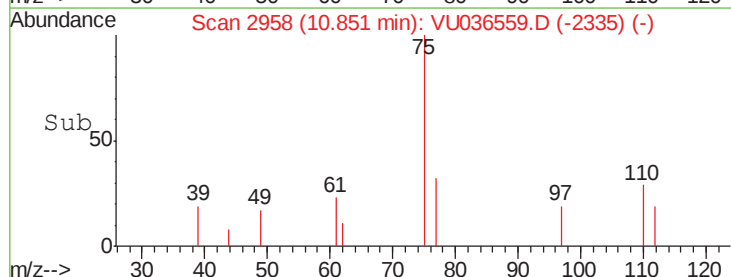
77 38.9 25.8 38.6#

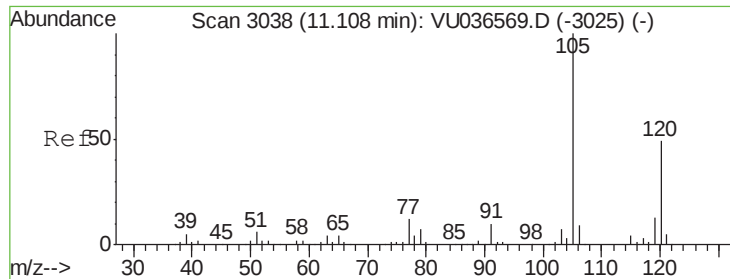


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VU0





#62

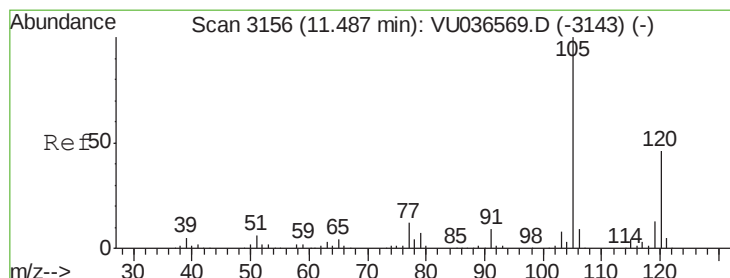
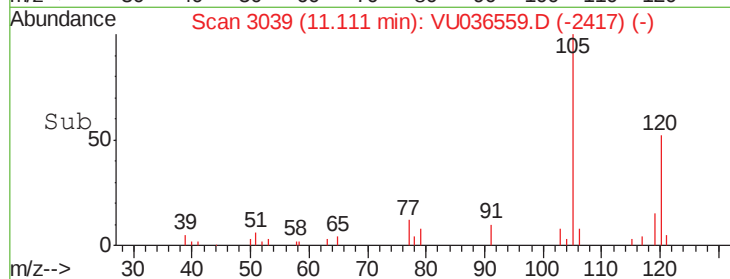
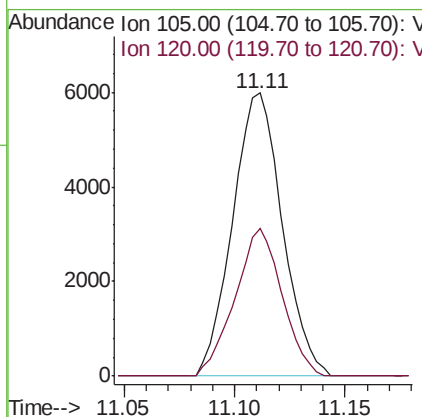
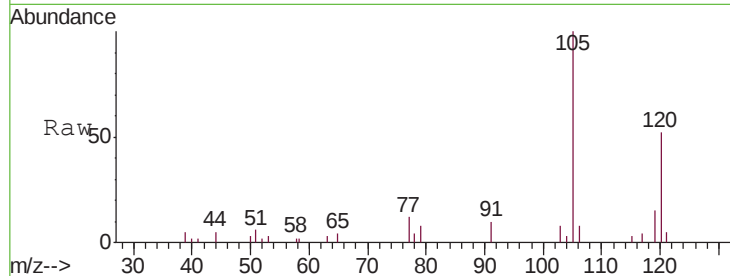
1,3,5-Trimethylbenzene
Concen: 0.248 ug/L
RT: 11.11 min Scan# 3039
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Instrument :
MSVOA_U
ClientSampled :
MDL03

Tgt Ion:105 Resp: 9352
Ion Ratio Lower Upper
105 100
120 49.4 39.7 59.5

Manual Integrations
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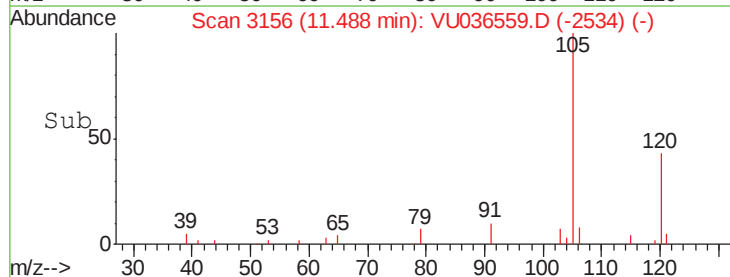
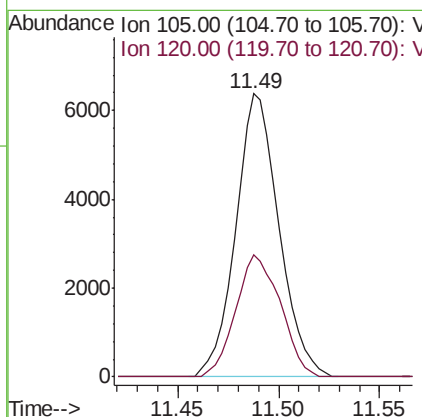
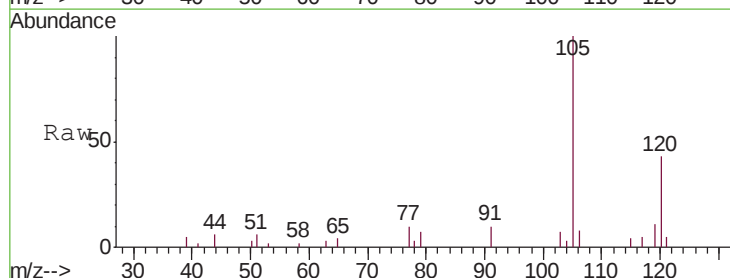
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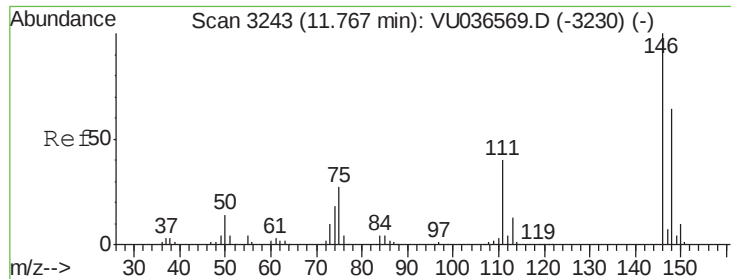


#63

1,2,4-Trimethylbenzene
Concen: 0.255 ug/L
RT: 11.49 min Scan# 3156
Delta R.T. 0.00 min
Lab File: VU036559.D
Acq: 24 Jan 2020 16:56

Tgt Ion:105 Resp: 9563
Ion Ratio Lower Upper
105 100
120 44.7 36.9 55.3





#64

1,3-Dichlorobenzene

Concen: 0.260 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampled :

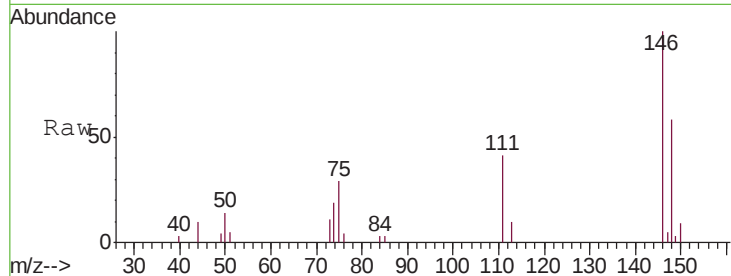
MDL03

Tgt Ion:146 Resp: 5329

Ion	Ratio	Lower	Upper
146	100		
111	41.0	28.8	53.6
148	58.4	44.2	82.2

Manual Integrations
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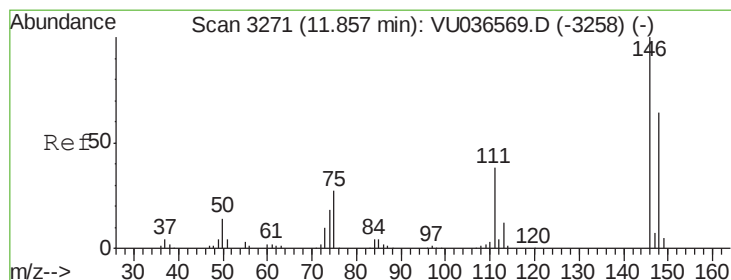
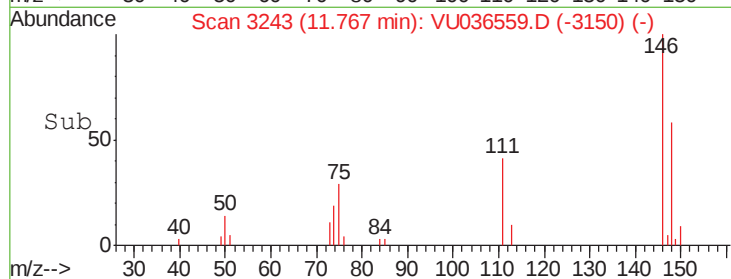
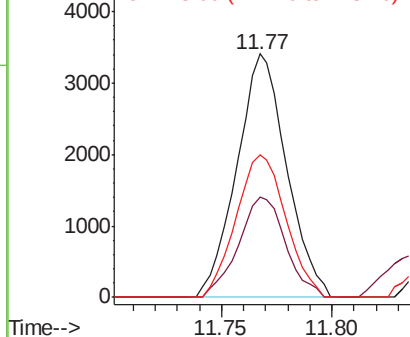
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Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 0.255 ug/L

RT: 11.86 min Scan# 3271

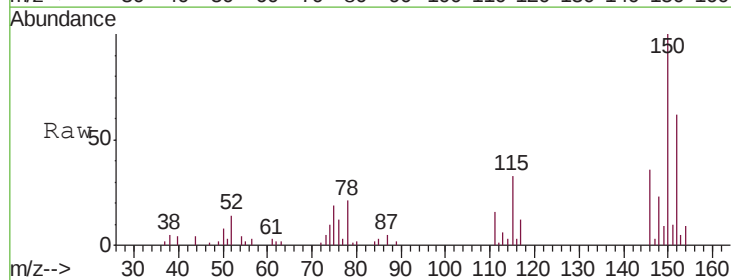
Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Tgt Ion:146 Resp: 5227

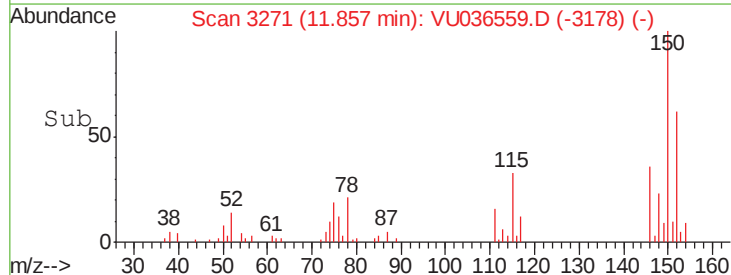
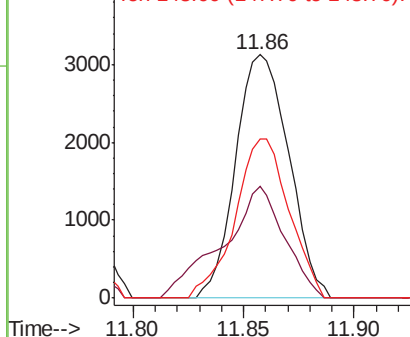
Ion	Ratio	Lower	Upper
146	100		
111	45.7	27.2	50.6
148	65.3	44.8	83.2

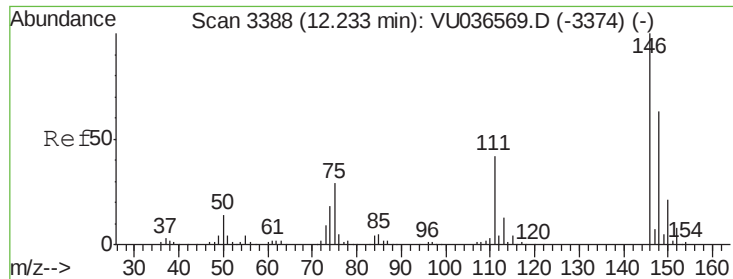


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





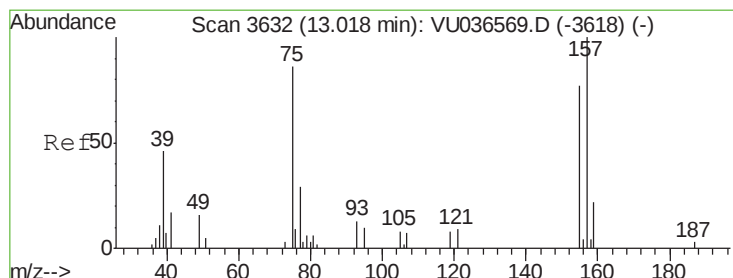
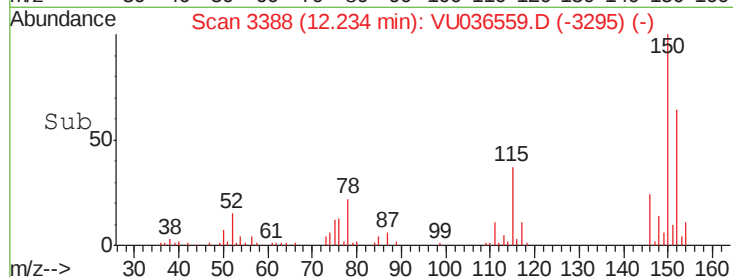
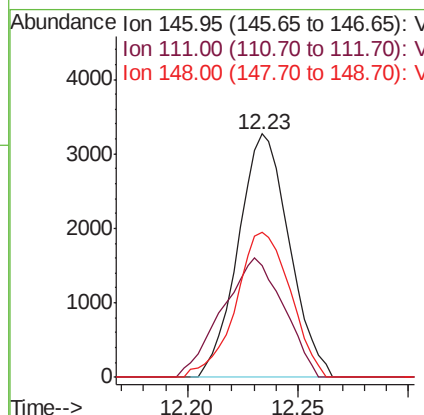
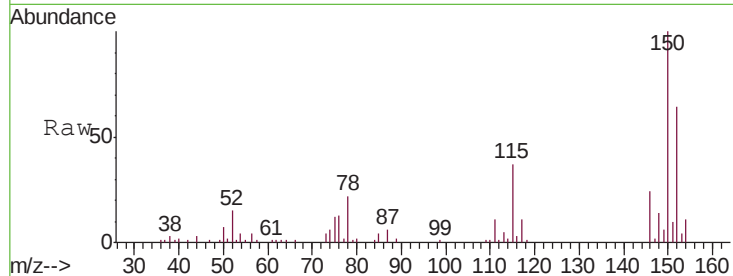
#67
 1,2-Dichlorobenzene
 Concen: 0.268 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. 0.00 min
 Lab File: VU036559.D
 Acq: 24 Jan 2020 16:56

Instrument :
 MSVOA_U
 ClientSampled :
 MDL03

Tgt Ion: 146 Resp: 5256
 Ion Ratio Lower Upper
 146 100
 111 46.1 33.4 50.0
 148 59.6 51.0 76.4

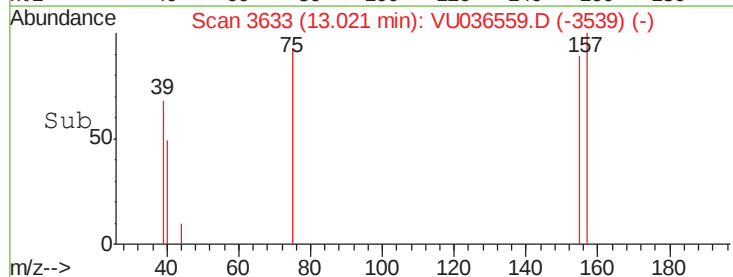
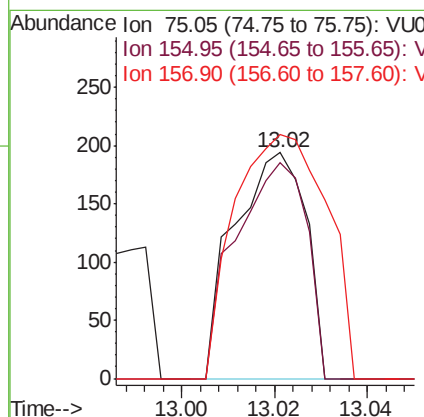
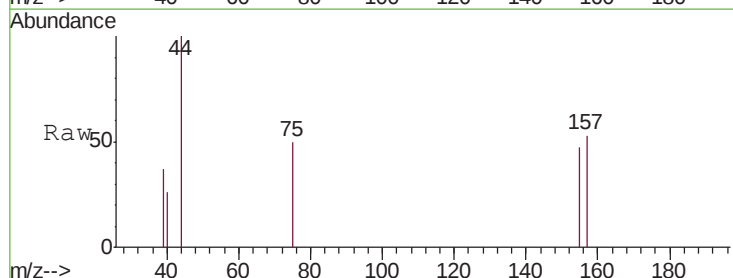
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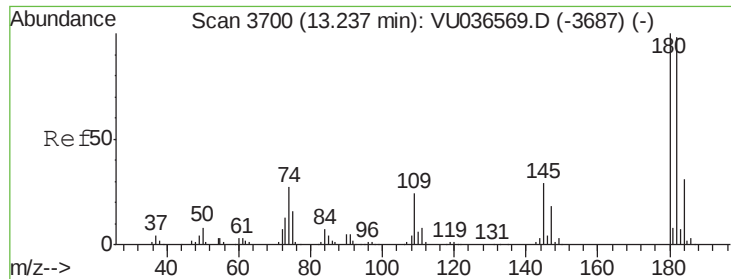
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.163 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. 0.00 min
 Lab File: VU036559.D
 Acq: 24 Jan 2020 16:56

Tgt Ion: 75 Resp: 209
 Ion Ratio Lower Upper
 75 100
 155 95.4 64.2 96.4
 157 107.7 85.1 127.7





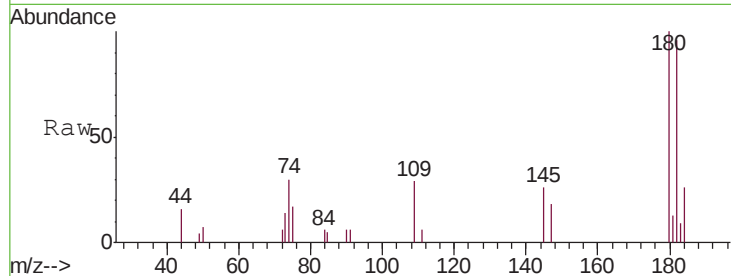
#69
 1,3,5-Trichlorobenzene
 Concen: 0.232 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036559.D
 Acq: 24 Jan 2020 16:56

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL03

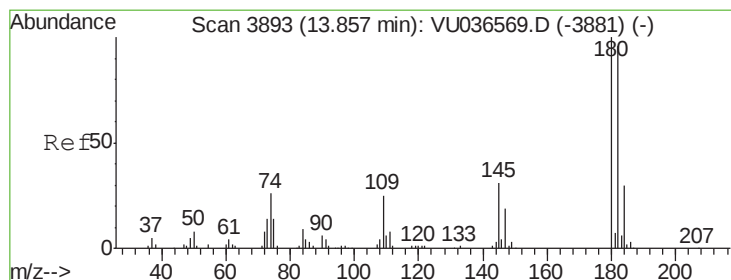
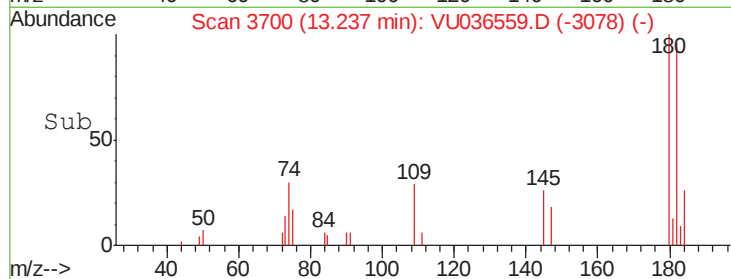
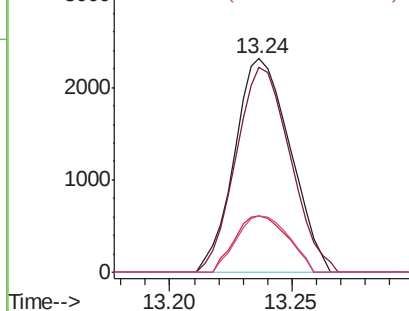
Tgt Ion:180 Resp: 3653
 Ion Ratio Lower Upper
 180 100
 182 93.5 75.2 112.8
 184 25.0 23.9 35.9
 145 25.0 22.7 34.1

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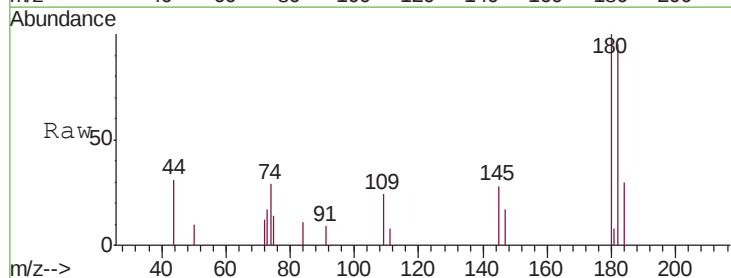


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

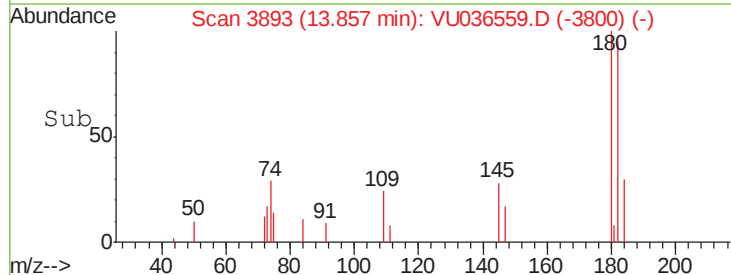
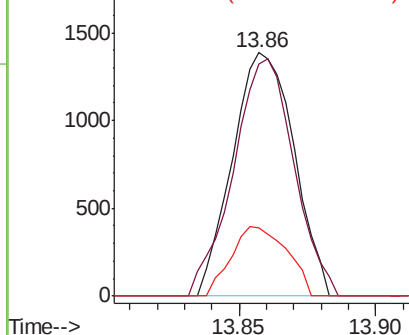


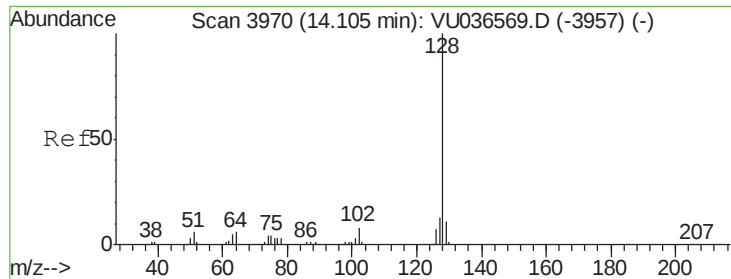
#70
 1,2,4-trichlorobenzene
 Concen: 0.189 ug/L
 RT: 13.86 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU036559.D
 Acq: 24 Jan 2020 16:56

Tgt Ion:180 Resp: 2169
 Ion Ratio Lower Upper
 180 100
 182 96.0 76.2 114.4
 145 26.0 23.9 35.9



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#71

Naphthalene

Concen: 0.149 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Instrument :

MSVOA_U

ClientSampleId :

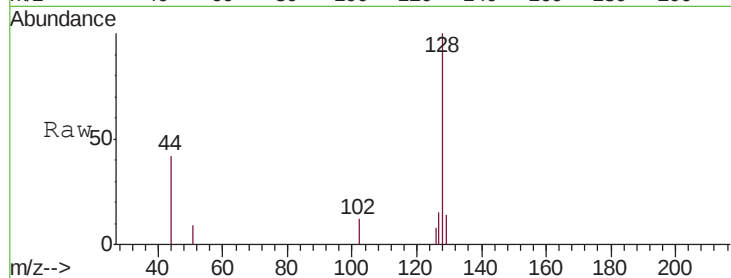
MDL03

Tgt Ion:128 Resp: 2442

Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.4	12.6
127	8.2	9.9	14.9#

Manual Integrations
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MMDadoda
2/14/2020 12:24:03 PM

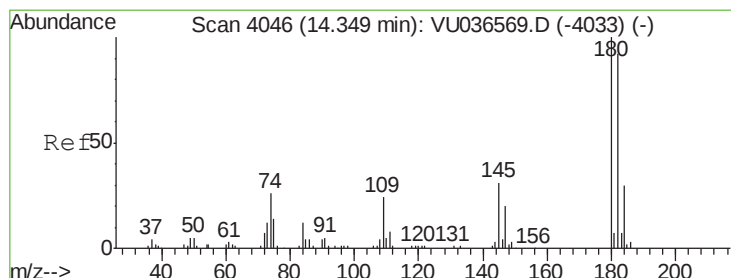
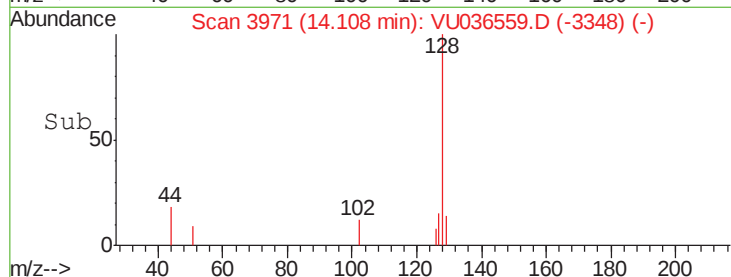
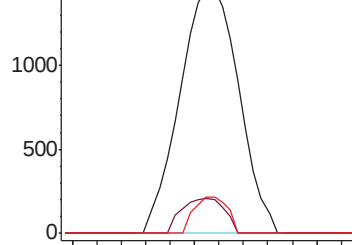


Abundance Ion 128.00 (127.70 to 128.70): V

2000 Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

14.11



#72

1,2,3-Trichlorobenzene

Concen: 0.214 ug/L

RT: 14.35 min Scan# 4046

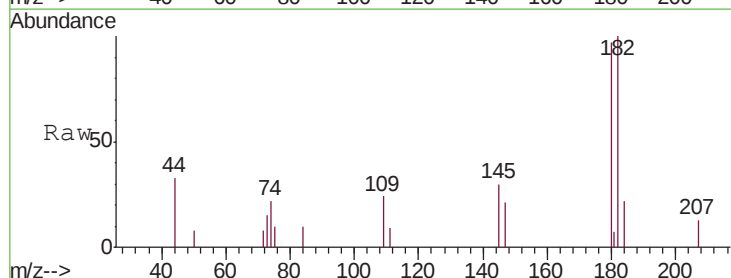
Delta R.T. 0.00 min

Lab File: VU036559.D

Acq: 24 Jan 2020 16:56

Tgt Ion:180 Resp: 2214

Ion	Ratio	Lower	Upper
180	100		
182	100.5	76.2	114.2
145	25.2	25.6	38.4#



Abundance Ion 179.90 (179.60 to 180.60): V

2000 Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

14.35

