

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100819\
 Data File : VU034986.D
 Acq On : 08 Oct 2019 12:15
 Operator : JC/SP
 Sample : MDL04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 3:47:57 PM

Quant Time: Oct 09 07:50:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 09 07:15:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	178555	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	180778	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	78562	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	46207	4.38	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.60%
7) Chloroethane-d5	1.68	69	44328	4.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.00%
11) 1,1-Dichloroethene-d2	2.26	63	73091	3.28	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.60%
20) 2-Butanone-d5	4.20	46	159445	51.30	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.60%
24) Chloroform-d	4.62	84	84640	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.80%
26) 1,2-Dichloroethane-d4	5.29	65	57855	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
32) Benzene-d6	5.32	84	194794	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	6.31	67	67755	4.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.60%
41) Toluene-d8	7.54	98	177328	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.60%
43) trans-1,3-Dichloropropene-	7.84	79	21852	4.29	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.80%
46) 2-Hexanone-d5	8.30	63	115435	47.59	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.18%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	55843	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.60%
64) 1,2-Dichlorobenzene-d4	11.84	152	66994	5.05	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	4323	0.265 ug/L	99
3) Chloromethane	1.32	50	5113	0.286 ug/L	98
5) Vinyl chloride	1.40	62	4751	0.270 ug/L	87
6) Bromomethane	1.62	94	2678	0.274 ug/L	100
8) Chloroethane	1.69	64	3167	0.300 ug/L	91
9) Trichlorofluoromethane	1.88	101	5969	0.281 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	3886	0.318 ug/L	93
12) 1,1-Dichloroethene	2.27	96	3683	0.321 ug/L #	1
13) Acetone	2.35	43	8122	3.190 ug/L	68
14) Carbon disulfide	2.47	76	10294	0.270 ug/L #	91
15) Methyl Acetate	2.61	43	2378	0.351 ug/L #	86
16) Methylene chloride	2.69	84	5922	0.417 ug/L	91
17) Methyl tert-butyl Ether	2.99	73	8422	0.269 ug/L	94
18) trans-1,2-Dichloroethene	2.96	96	3475	0.283 ug/L	95
19) 1,1-Dichloroethane	3.42	63	6660	0.273 ug/L	95
21) 2-Butanone	4.30	43	10238m	2.824 ug/L	
22) cis-1,2-Dichloroethene	4.21	96	3703	0.270 ug/L	89

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100819\
 Data File : VU034986.D
 Acq On : 08 Oct 2019 12:15
 Operator : JC/SP
 Sample : MDL04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

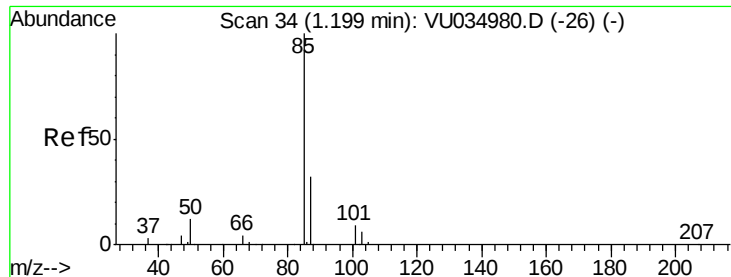
MMDadoda
 10/9/2019 3:47:57 PM

Quant Time: Oct 09 07:50:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 09 07:15:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.53	128	1535	0.267	ug/L	93
25) Chloroform	4.65	83	25685	0.937	ug/L	97
27) 1,2-Dichloroethane	5.39	62	4499	0.281	ug/L #	95
29) 1,1,1-Trichloroethane	4.89	97	5282	0.260	ug/L	94
30) Cyclohexane	4.97	56	5343	0.239	ug/L	98
31) Carbon tetrachloride	5.11	117	4527	0.257	ug/L	95
33) Benzene	5.37	78	14328	0.263	ug/L	100
34) Trichloroethene	6.17	95	4082	0.291	ug/L	91
35) Methylcyclohexane	6.39	83	5771	0.254	ug/L	98
37) 1,2-Dichloropropane	6.41	63	4227	0.288	ug/L #	88
38) Bromodichloromethane	6.74	83	4494	0.261	ug/L	90
39) cis-1,3-Dichloropropene	7.26	75	4458	0.224	ug/L	92
40) 4-Methyl-2-pentanone	7.45	43	21725	2.350	ug/L #	85
42) Toluene	7.62	91	15258	0.268	ug/L	97
44) trans-1,3-Dichloropropene	7.87	75	4013m	0.260	ug/L	
45) 1,1,2-Trichloroethane	8.05	97	2640	0.271	ug/L	93
47) Tetrachloroethene	8.21	164	2909	0.256	ug/L	86
48) 2-Hexanone	8.36	43	18492	2.917	ug/L #	92
49) Dibromochloromethane	8.46	129	2758	0.245	ug/L	90
50) 1,2-Dibromoethane	8.57	107	1988	0.213	ug/L #	77
51) Chlorobenzene	9.10	112	9369	0.254	ug/L	87
52) Ethylbenzene	9.23	91	15456	0.246	ug/L	99
53) m,p-Xylene	9.36	106	5435	0.234	ug/L	95
54) o-Xylene	9.76	106	5149	0.227	ug/L	97
55) Styrene	9.78	104	7622	0.208	ug/L	95
56) Isopropylbenzene	10.14	105	14062	0.233	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.44	83	3909	0.295	ug/L #	99
59) 1,2,3-Trichloropropane	10.47	75	2564	0.270	ug/L	95
61) Bromoform	9.94	173	1328	0.246	ug/L #	95
62) 1,3-Dichlorobenzene	11.40	146	6370	0.263	ug/L	93
63) 1,4-Dichlorobenzene	11.49	146	7062	0.289	ug/L	93
65) 1,2-Dichlorobenzene	11.86	146	7068	0.303	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	3885	0.237	ug/L #	92
69) Naphthalene	13.78	128	2349m	0.123	ug/L	
70) 1,2,3-Trichlorobenzene	14.01	180	1969m	0.165	ug/L	

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



#2

Dichlorodifluoromethane

Concen: 0.265 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 85 Resp: 4323

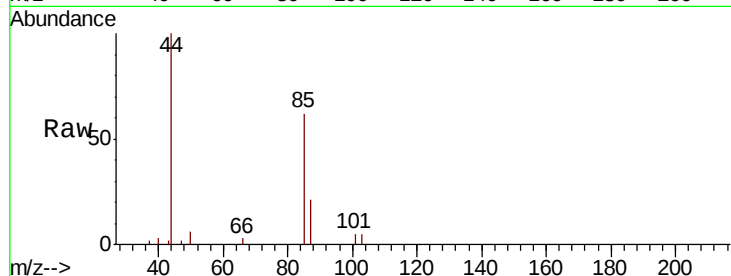
Ion Ratio Lower Upper

85 100

87 32.5 26.3 39.5

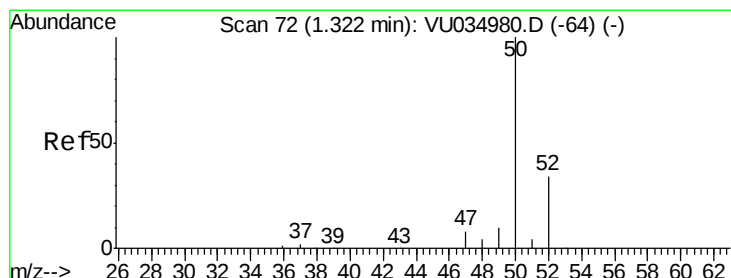
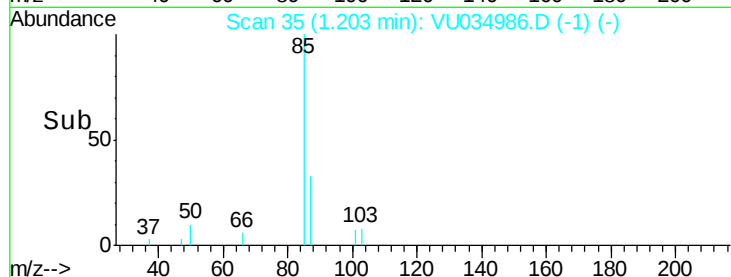
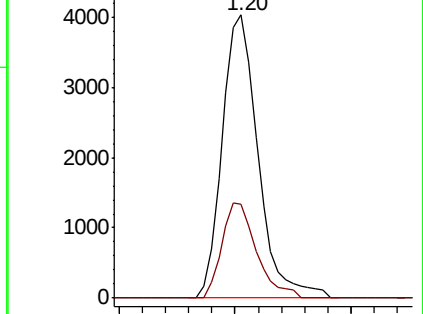
Manual Integrations
APPROVED

MMDadoda
10/9/2019 3:47:57 PM



Abundance Ion 85.00 (84.70 to 85.70): VU034980.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU034980.D (-26) (-)



#3

Chloromethane

Concen: 0.286 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034986.D

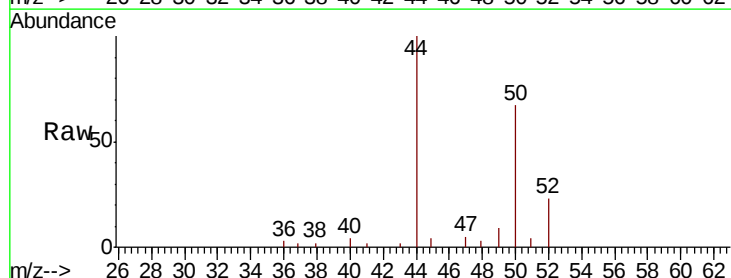
Acq: 08 Oct 2019 12:15

Tgt Ion: 50 Resp: 5113

Ion Ratio Lower Upper

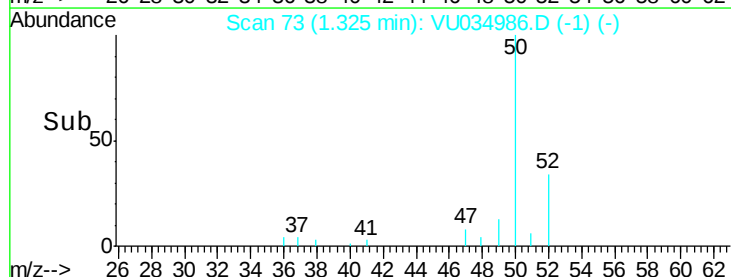
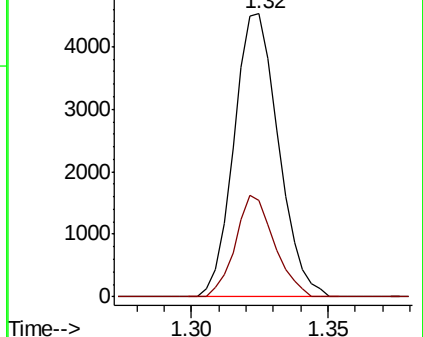
50 100

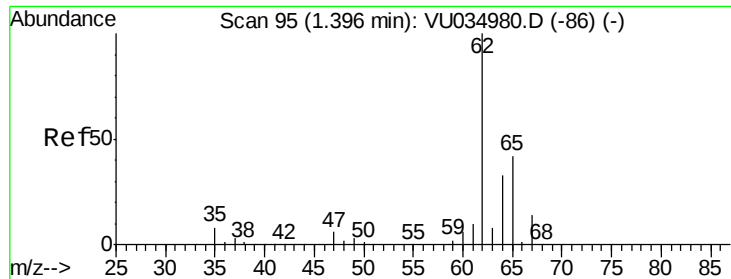
52 34.2 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU034980.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU034980.D (-64) (-)





#5

Vinyl chloride

Concen: 0.270 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 62 Resp: 4751

Ion Ratio Lower Upper

62 100

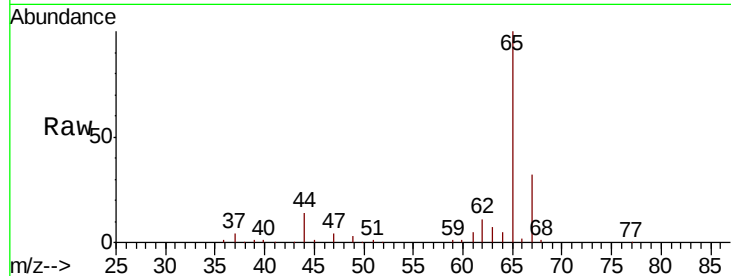
64 39.9 22.8 42.4

Manual Integrations

APPROVED

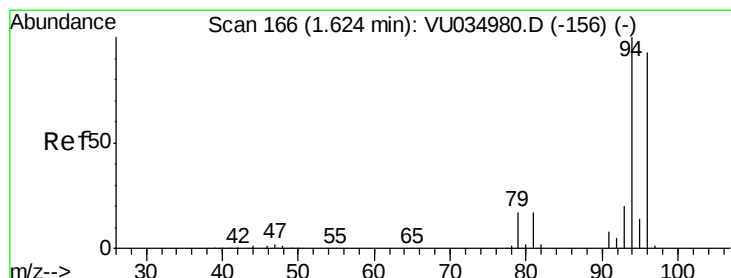
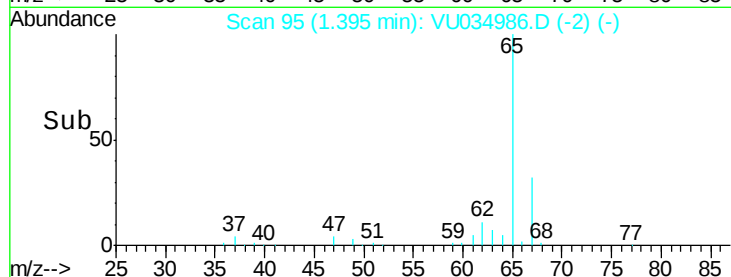
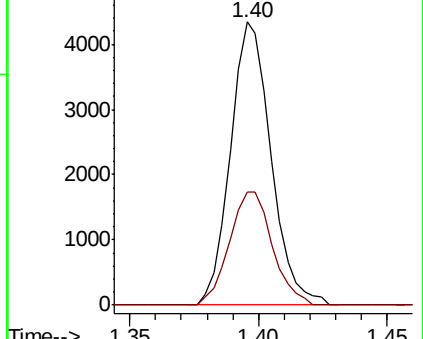
MMDadoda

10/9/2019 3:47:57 PM



Abundance Ion 62.00 (61.70 to 62.70): VU034986.D (-86) (-)

Ion 64.10 (63.80 to 64.80): VU034986.D (-86) (-)



#6

Bromomethane

Concen: 0.274 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU034986.D

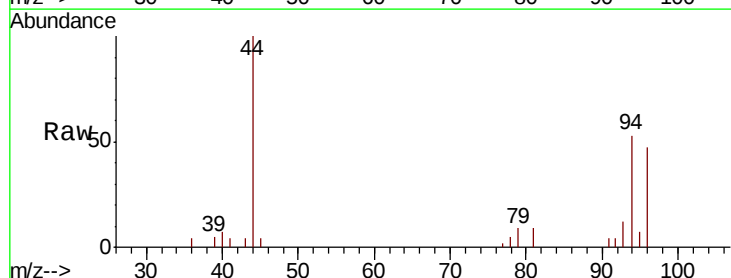
Acq: 08 Oct 2019 12:15

Tgt Ion: 94 Resp: 2678

Ion Ratio Lower Upper

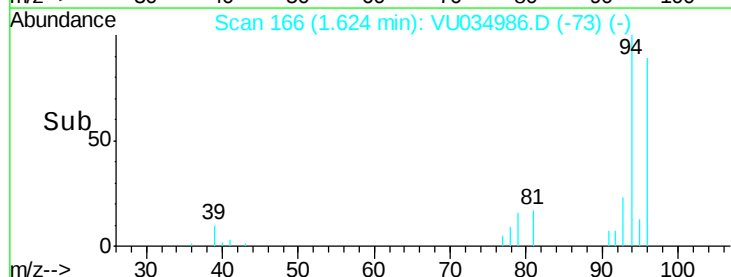
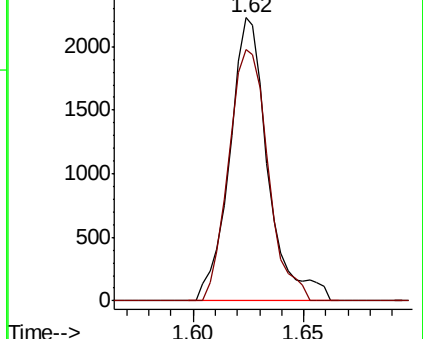
94 100

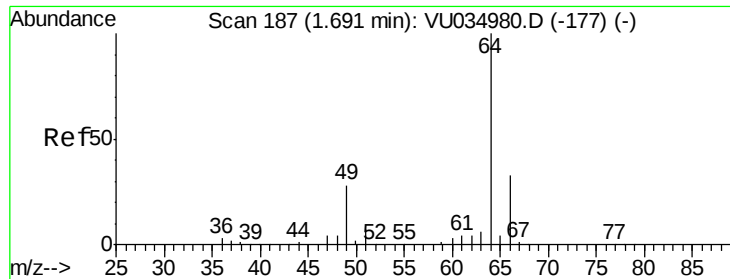
96 88.8 62.4 116.0



Abundance Ion 94.00 (93.70 to 94.70): VU034986.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU034986.D (-156) (-)





#8

Chloroethane

Concen: 0.300 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 64 Resp: 3167

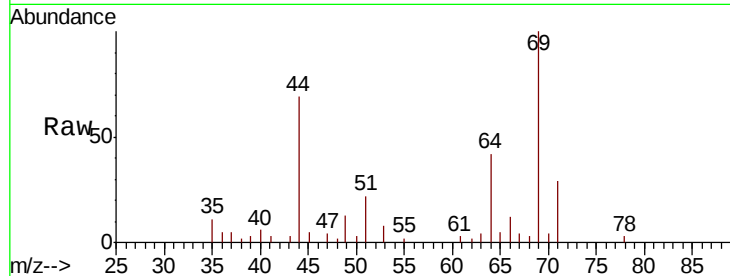
Ion Ratio Lower Upper

64 100

66 28.2 23.2 43.2

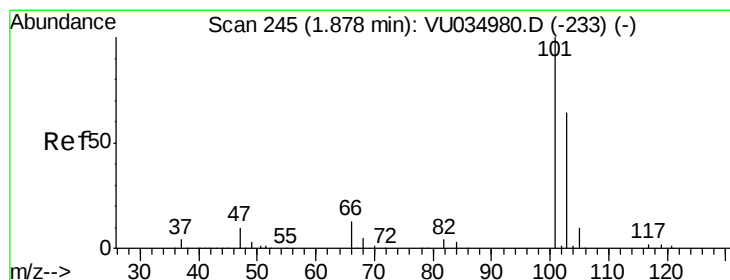
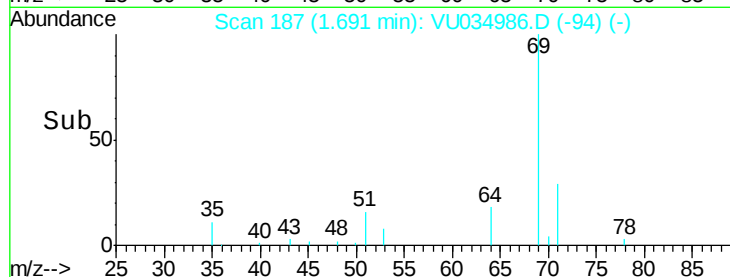
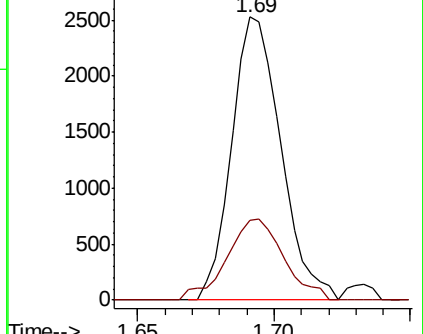
Manual Integrations
APPROVED

MMDadoda
10/9/2019 3:47:57 PM



Abundance Ion 64.10 (63.80 to 64.80): VU034986.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU034986.D (-177) (-)



#9

Trichlorofluoromethane

Concen: 0.281 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU034986.D

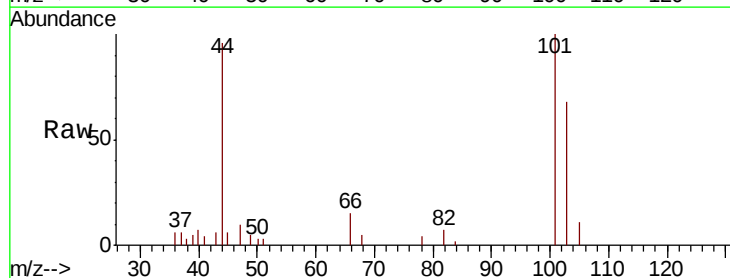
Acq: 08 Oct 2019 12:15

Tgt Ion: 101 Resp: 5969

Ion Ratio Lower Upper

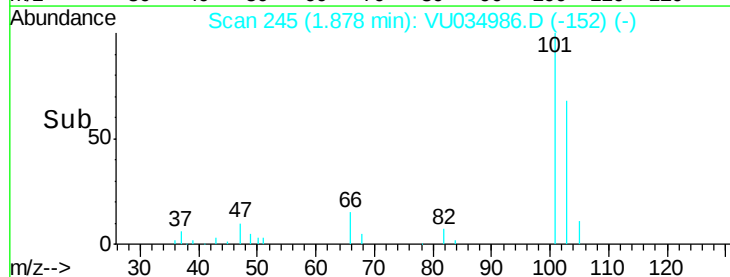
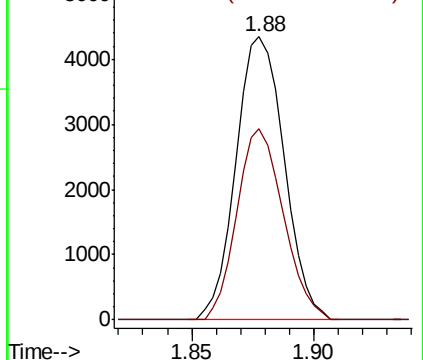
101 100

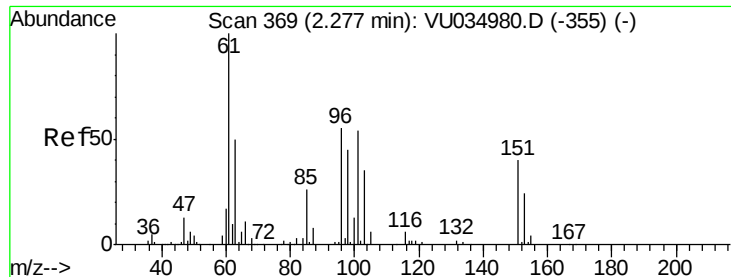
103 65.0 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU034986.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU034986.D (-233) (-)





#10

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

Concen: 0.318 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Instrument :

MSVOA_U

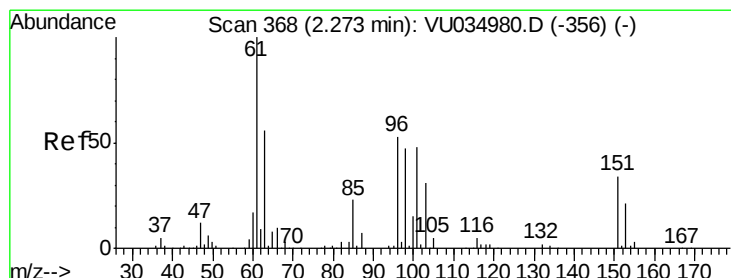
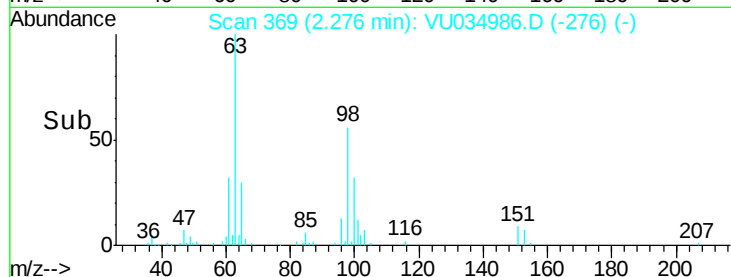
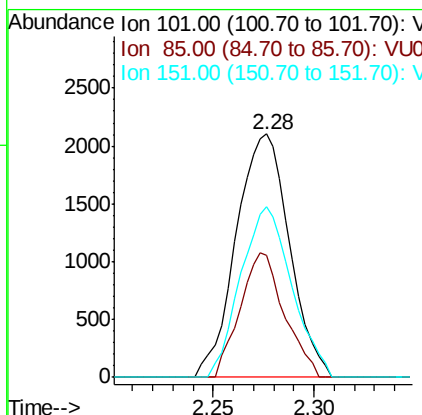
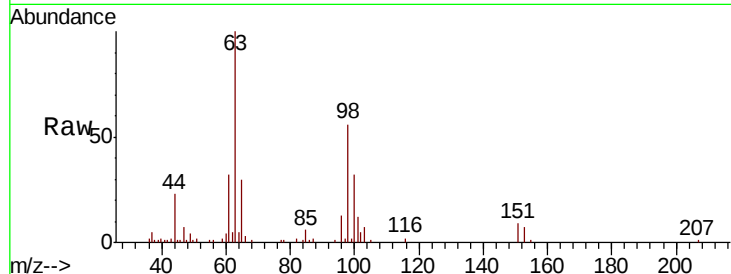
ClientSampled :

MDL04

Tot Ion:	101	Resp:	3886
Ion Ratio	Lower	Upper	
101	100		
85	42.4	37.4	56.0
151	67.1	58.6	87.8

Manual Integrations
APPROVED

MMDadoda
10/9/2019 3:47:57 PM



#12

1,1-Dichloroethene

Concen: 0.321 ug/L

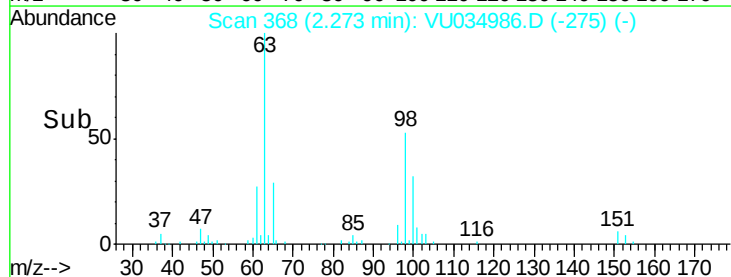
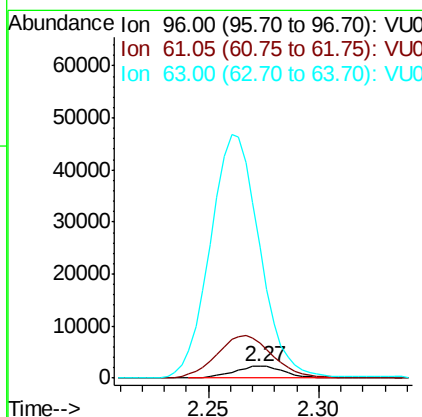
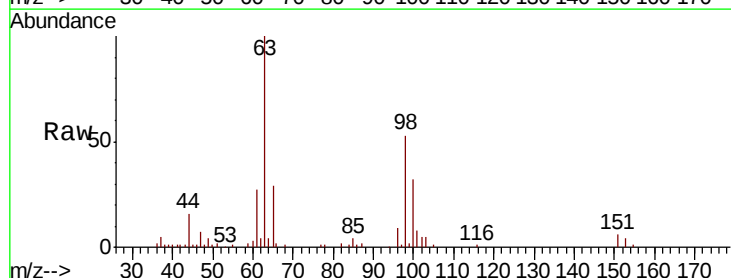
RT: 2.27 min Scan# 368

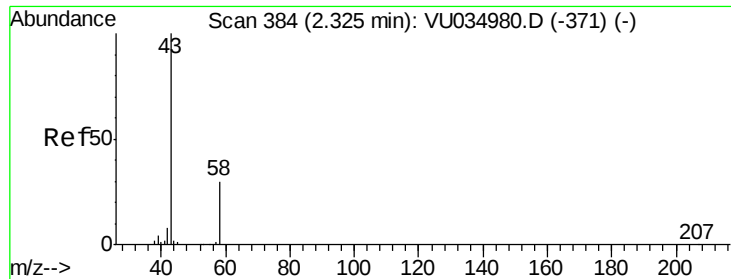
Delta R.T. -0.00 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Tgt Ion:	96	Resp:	3683
Ion Ratio	Lower	Upper	
96	100		
61	296.1	129.3	240.1#
63	1106.1	108.9	202.3#





#13

Acetone

Concen: 3.190 ug/L

RT: 2.35 min Scan# 391

Delta R.T. 0.02 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 43 Resp: 8122

Ion Ratio Lower Upper

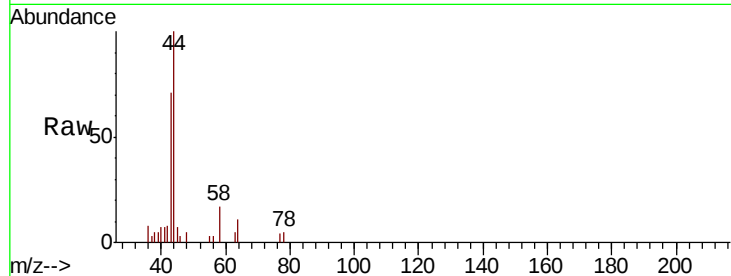
43 100

58 15.2 0.0 66.6

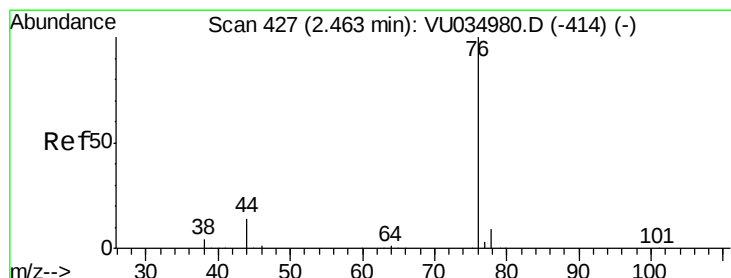
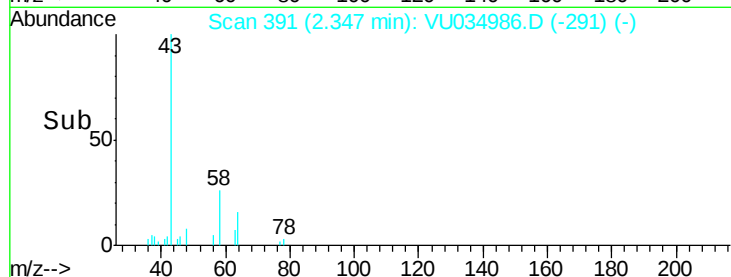
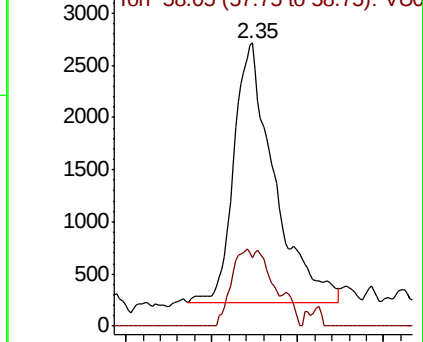
Manual Integrations
APPROVED

MMDadoda

10/9/2019 3:47:57 PM



Abundance Ion 43.05 (42.75 to 43.75): VU034986.D (-391) (-)



#14

Carbon disulfide

Concen: 0.270 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VU034986.D

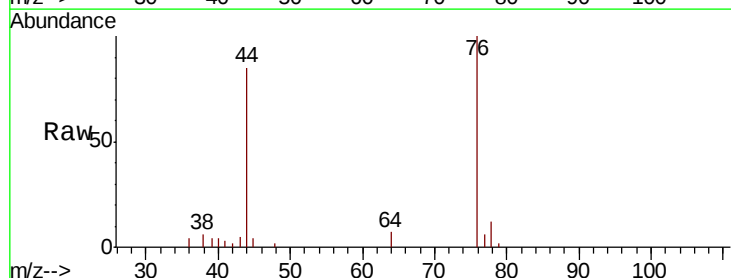
Acq: 08 Oct 2019 12:15

Tgt Ion: 76 Resp: 10294

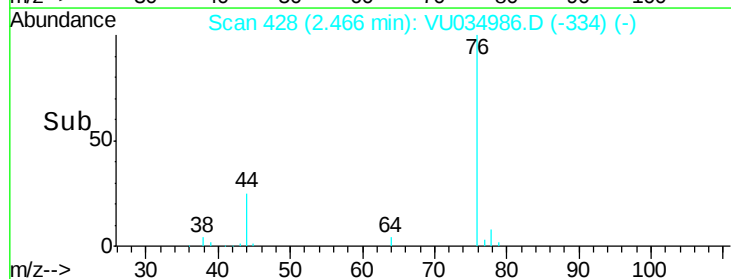
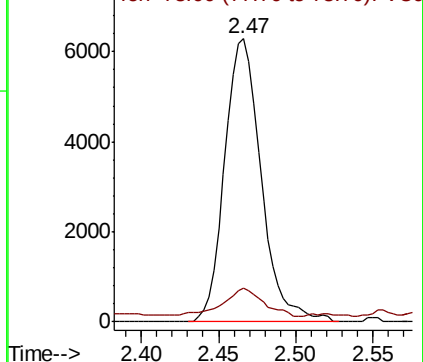
Ion Ratio Lower Upper

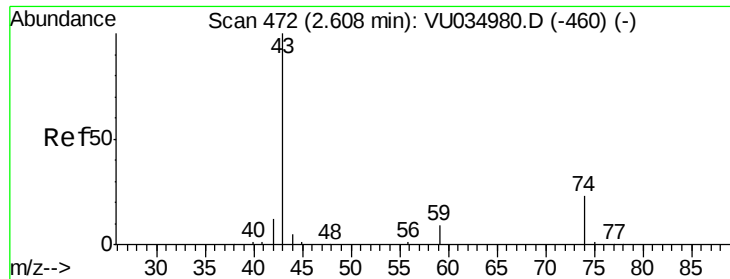
76 100

78 12.0 7.1 10.7#



Abundance Ion 76.05 (75.75 to 76.75): VU034986.D (-428) (-)





#15

Methyl Acetate

Concen: 0.351 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.01 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 43 Resp: 2378

Ion Ratio Lower Upper

43 100

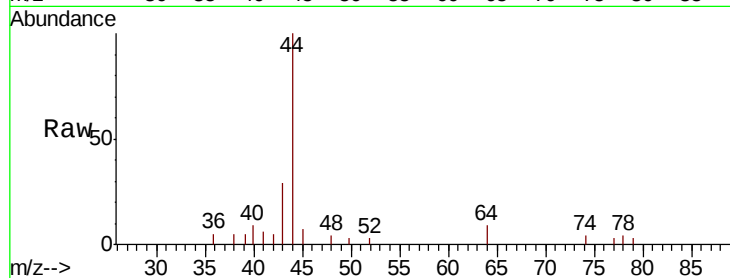
74 15.6 17.8 26.8#

Manual Integrations

APPROVED

MMDadoda

10/9/2019 3:47:57 PM



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.61

1200

1000

800

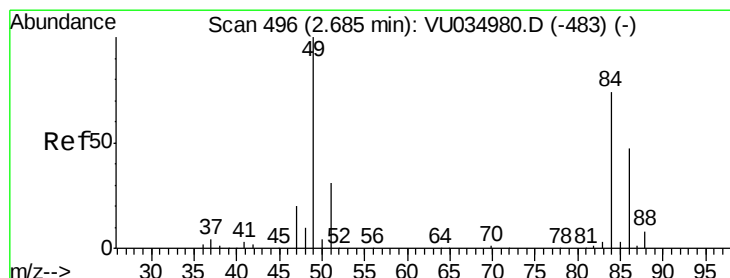
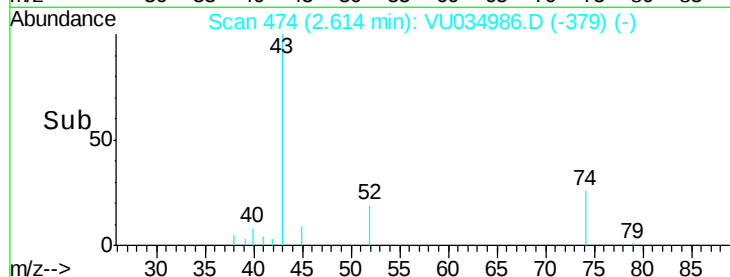
600

400

200

0

Time-->



#16

Methylene chloride

Concen: 0.417 ug/L

RT: 2.69 min Scan# 497

Delta R.T. 0.00 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

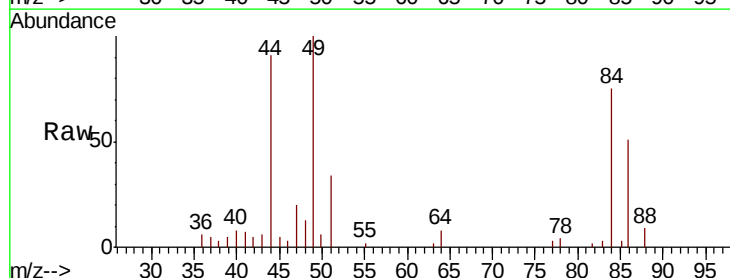
Tgt Ion: 84 Resp: 5922

Ion Ratio Lower Upper

84 100

86 67.9 42.5 78.9

49 134.0 86.9 161.3



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

6000

5000

4000

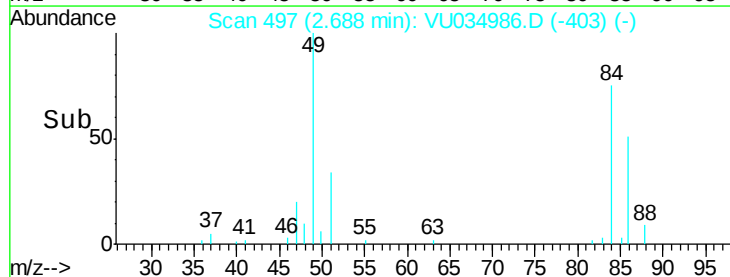
3000

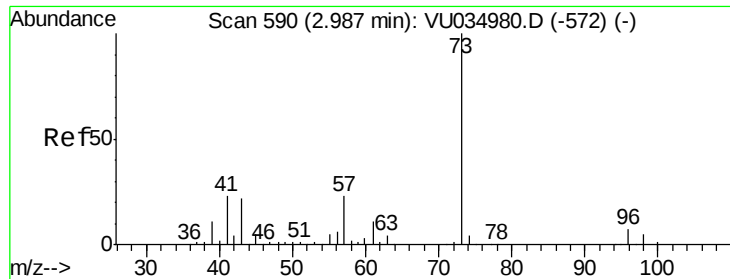
2000

1000

0

Time-->





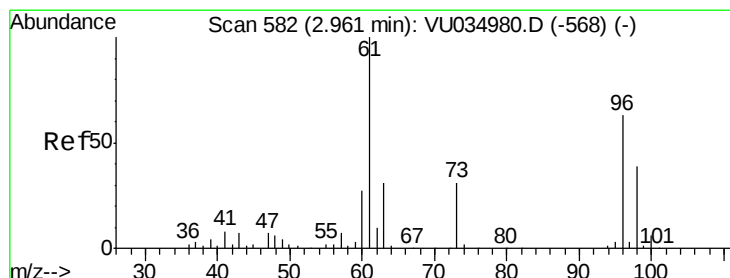
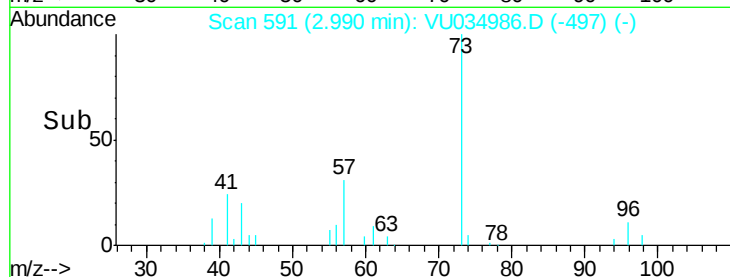
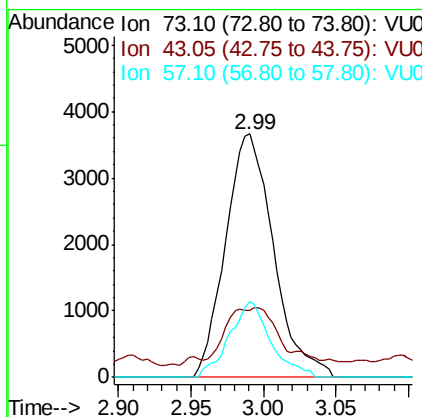
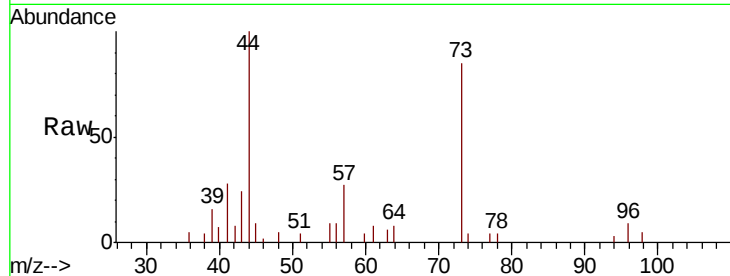
#17
Methvl tert-butvl Ether
Concen: 0.269 ug/L
RT: 2.99 min Scan# 591
Delta R.T. 0.00 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
73	100		
43	22.7	16.3	24.5
57	26.9	18.6	28.0

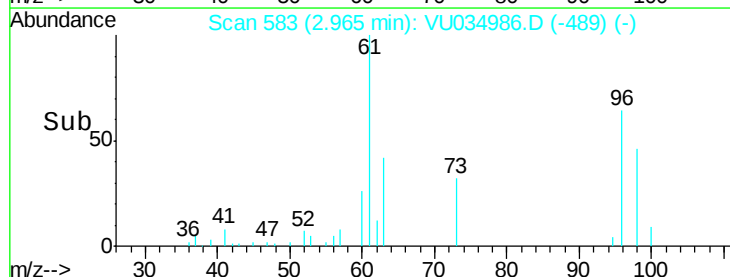
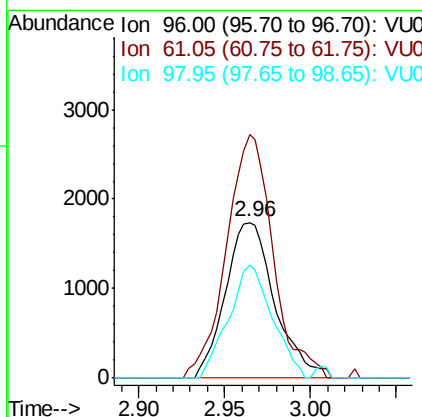
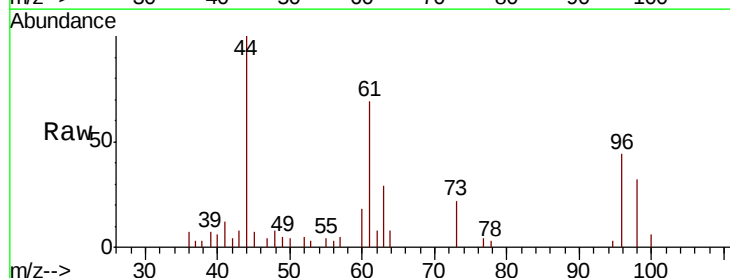
Manual Integrations
APPROVED

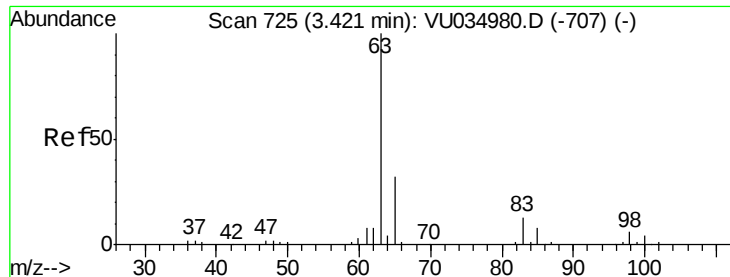
MMDadoda
10/9/2019 3:47:57 PM



#18
trans-1,2-Dichloroethene
Concen: 0.283 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.4	107.1	198.9
98	72.6	45.4	84.4





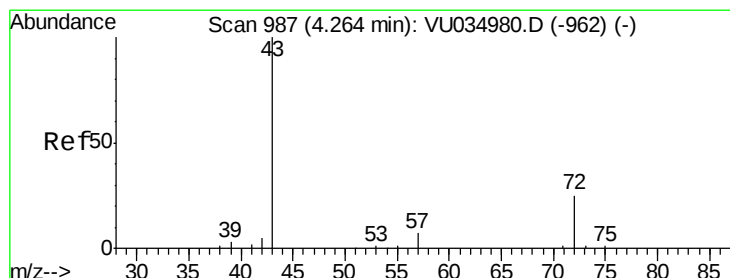
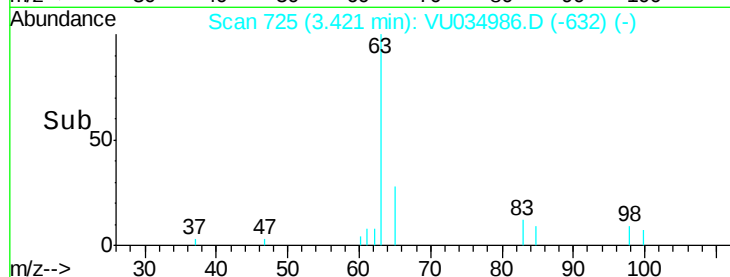
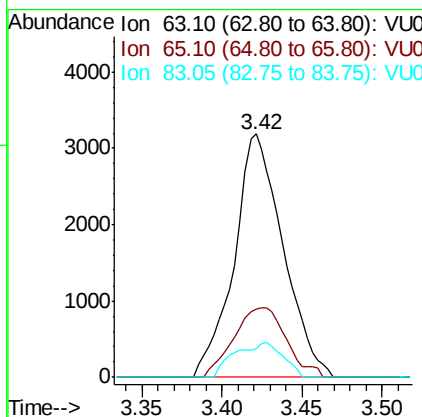
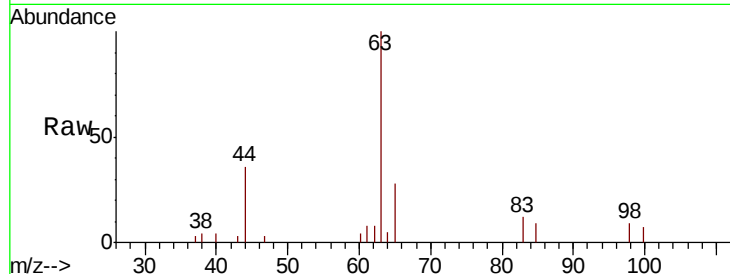
#19
1,1-Dichloroethane
Concen: 0.273 ug/L
RT: 3.42 min Scan# 725
Delta R.T. -0.00 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
63	100		
65	27.8	21.7	40.3
83	12.0	9.0	16.8

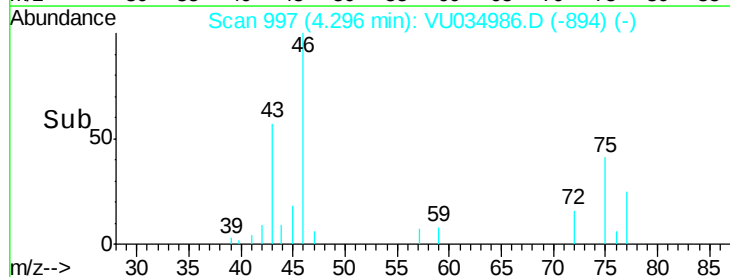
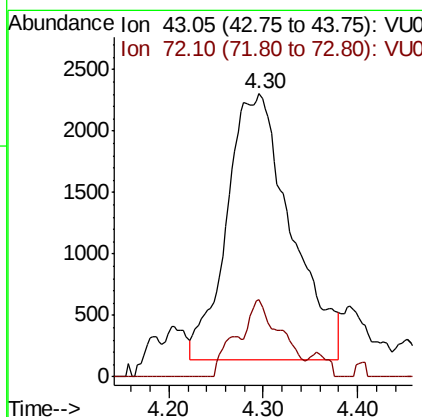
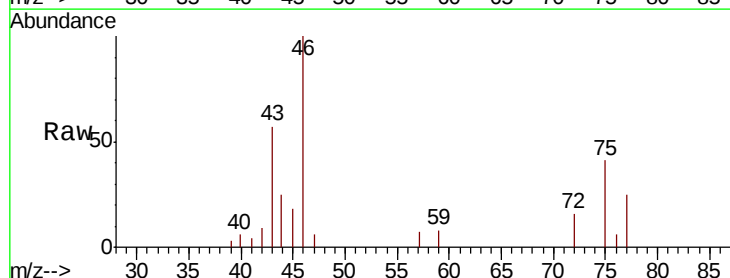
Manual Integrations
APPROVED

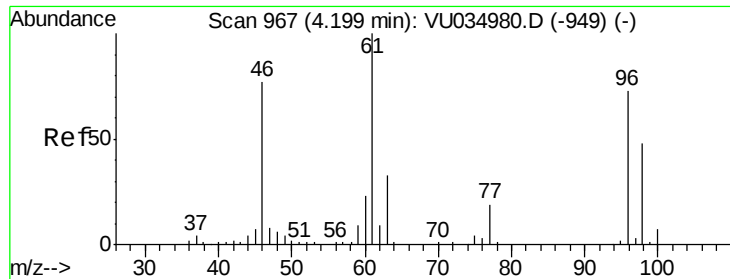
MMDadoda
10/9/2019 3:47:57 PM



#21
2-Butanone
Concen: 2.824 ug/L m
RT: 4.30 min Scan# 997
Delta R.T. 0.03 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.8	13.5	40.4#





#22

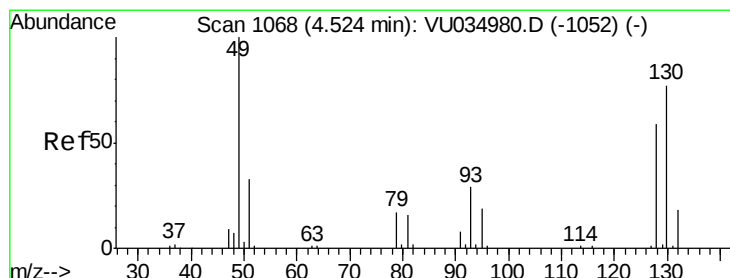
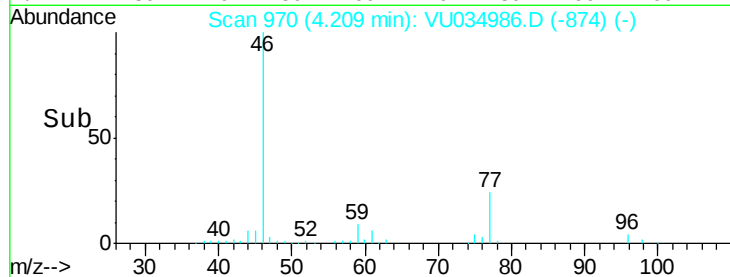
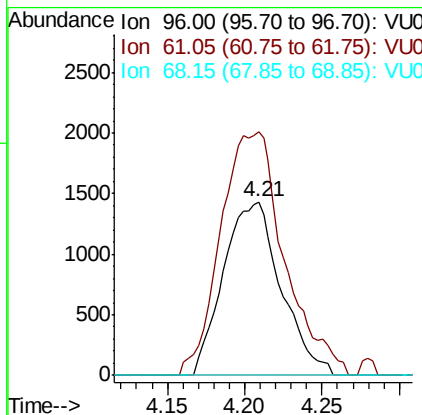
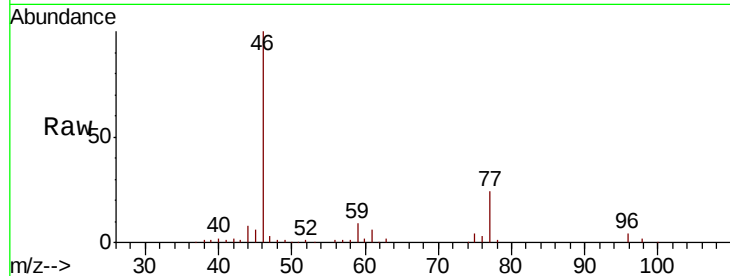
cis-1,2-Dichloroethene
Concen: 0.270 ug/L
RT: 4.21 min Scan# 970
Delta R.T. 0.01 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Instrument :
MSVOA_U
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.5	89.2	165.6
68	0.0	0.0	0.0

Manual Integrations
APPROVED

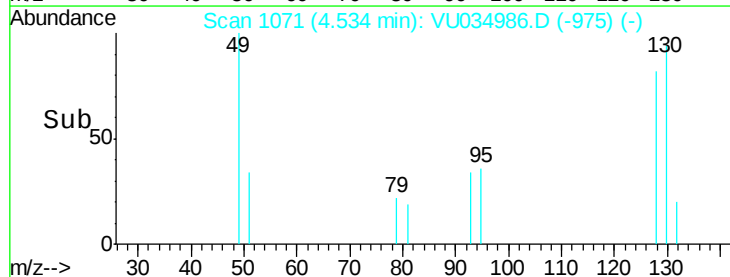
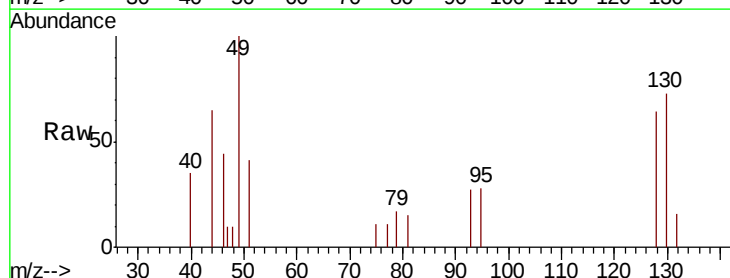
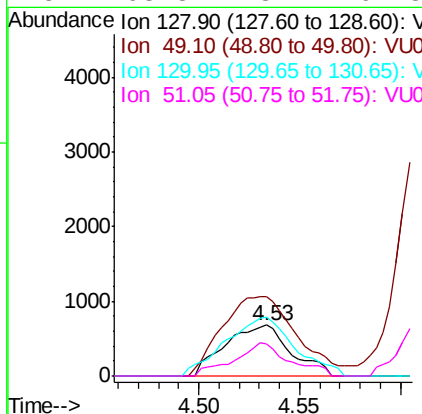
MMDadoda
10/9/2019 3:47:57 PM

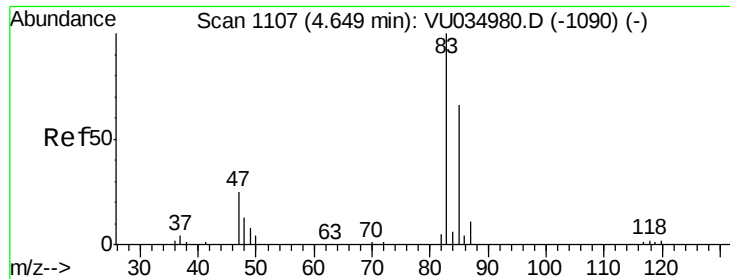


#23

Bromochloromethane
Concen: 0.267 ug/L
RT: 4.53 min Scan# 1071
Delta R.T. 0.01 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Tgt Ion	Ratio	Lower	Upper
128	100		
49	156.1	110.5	205.3
130	114.6	88.6	164.6
51	63.8	43.2	64.8





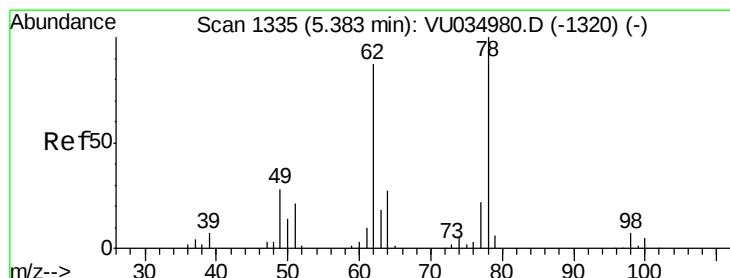
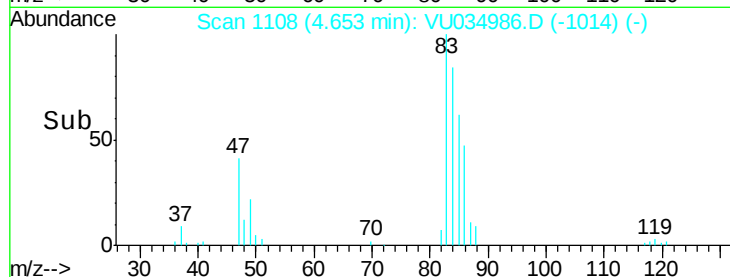
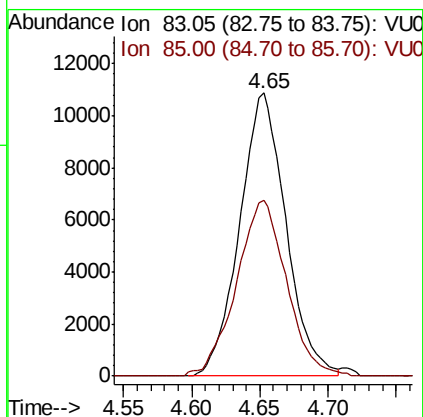
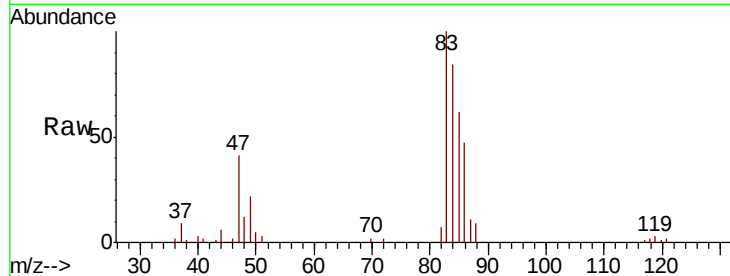
#25
Chloroform
Concen: 0.937 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion: 83 Resp: 25685
Ion Ratio Lower Upper
83 100
85 62.2 45.4 84.4

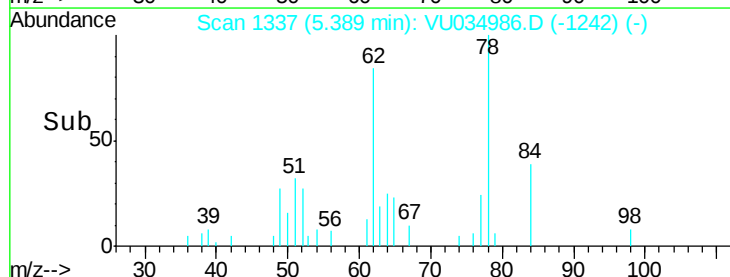
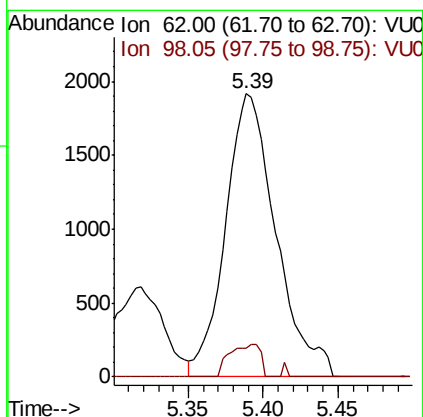
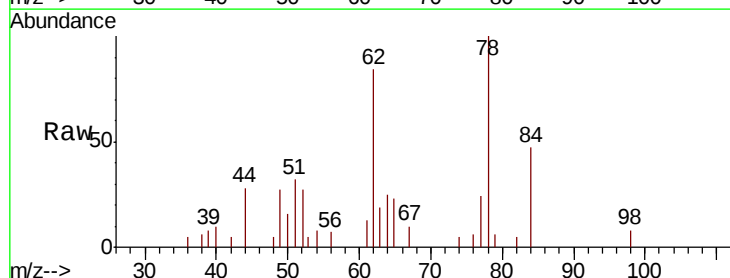
Manual Integrations
APPROVED

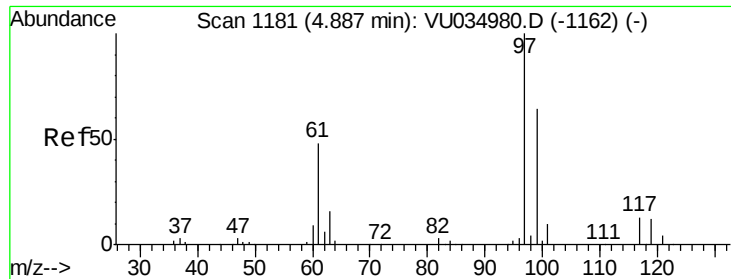
MMDadoda
10/9/2019 3:47:57 PM



#27
1,2-Dichloroethane
Concen: 0.281 ug/L
RT: 5.39 min Scan# 1337
Delta R.T. 0.01 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Tgt Ion: 62 Resp: 4499
Ion Ratio Lower Upper
62 100
98 10.0 6.6 10.0#





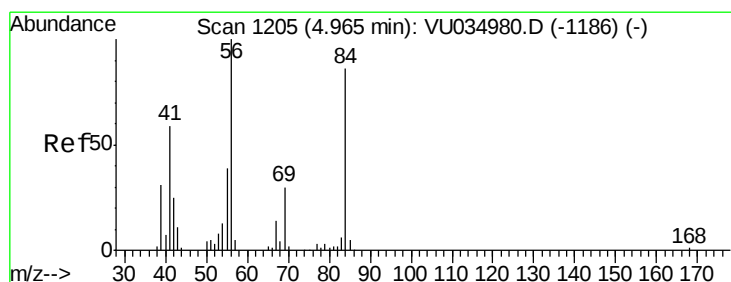
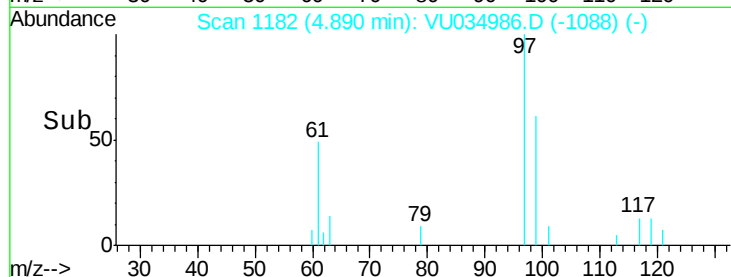
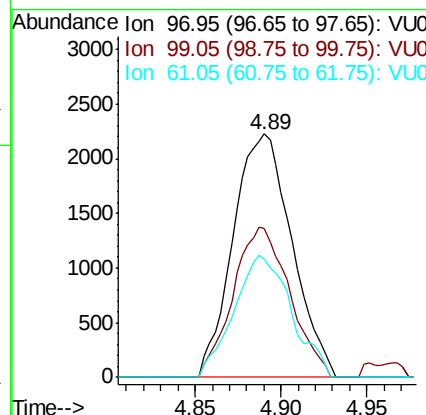
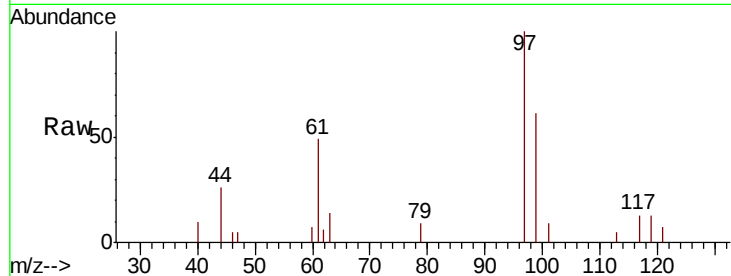
#29
 1,1,1-Trichloroethane
 Concen: 0.260 ug/L
 RT: 4.89 min Scan# 1182
 Delta R.T. 0.00 min
 Lab File: VU034986.D
 Acq: 08 Oct 2019 12:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
97	100		
99	59.5	51.6	77.4
61	48.9	36.2	54.4

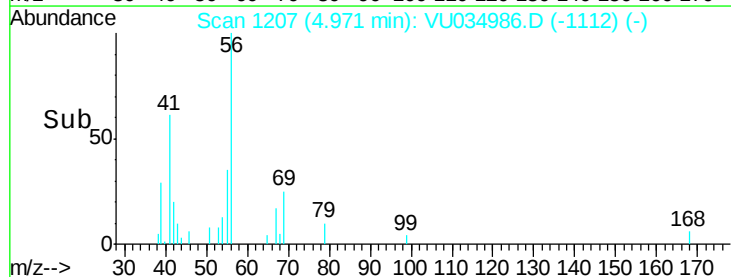
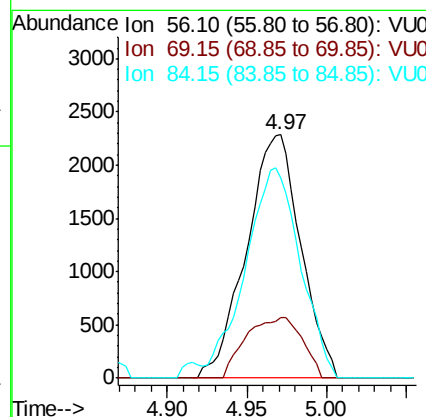
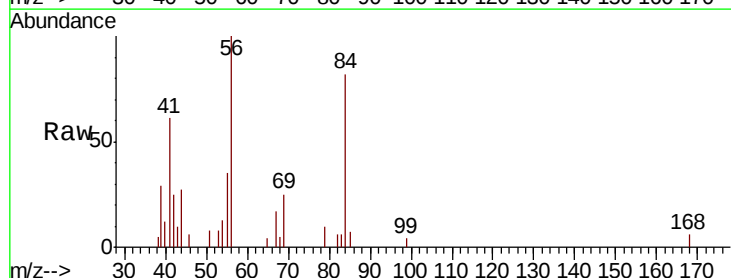
Manual Integrations
 APPROVED

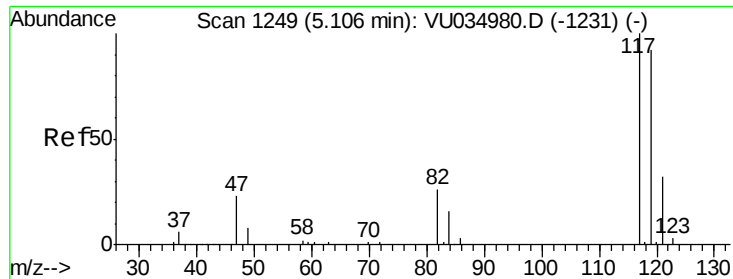
MMDadoda
 10/9/2019 3:47:57 PM



#30
 Cyclohexane
 Concen: 0.239 ug/L
 RT: 4.97 min Scan# 1207
 Delta R.T. 0.01 min
 Lab File: VU034986.D
 Acq: 08 Oct 2019 12:15

Tgt Ion	Ratio	Lower	Upper
56	100		
69	25.7	23.9	35.9
84	86.9	69.5	104.3





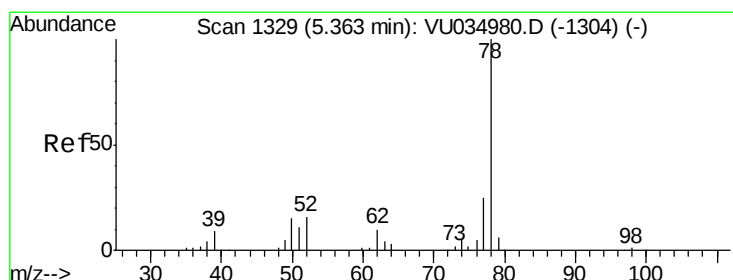
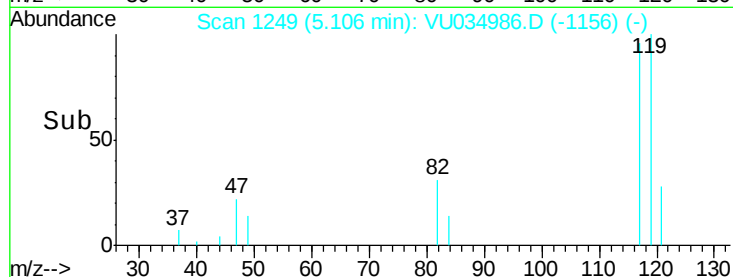
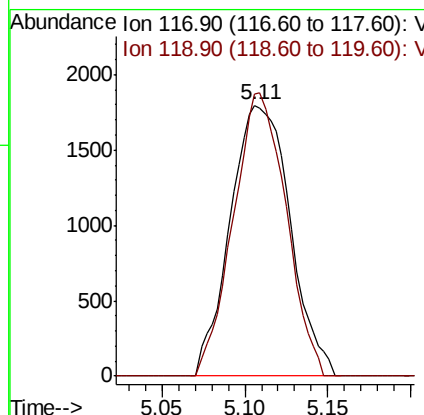
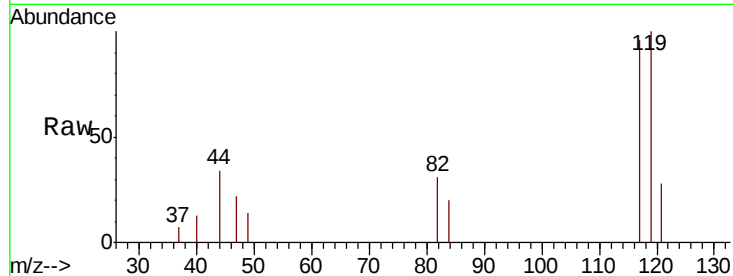
#31
Carbon tetrachloride
Concen: 0.257 ug/L
RT: 5.11 min Scan# 1249
Delta R.T. -0.00 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion:117 Resp: 4527
Ion Ratio Lower Upper
117 100
119 92.2 77.5 116.3

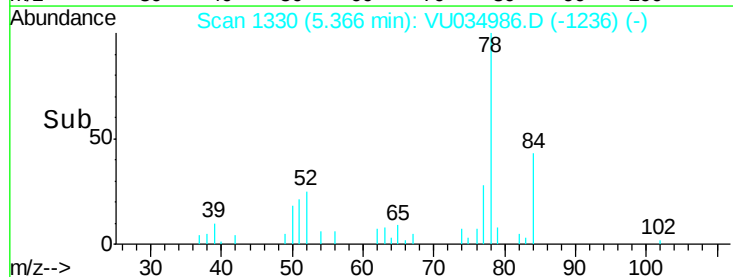
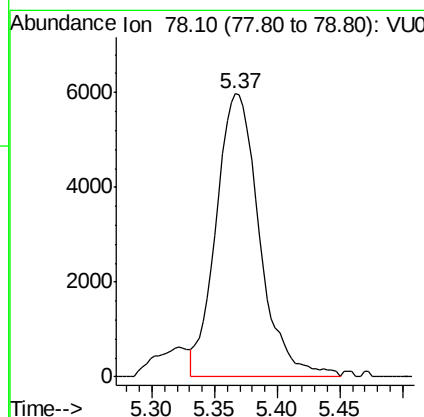
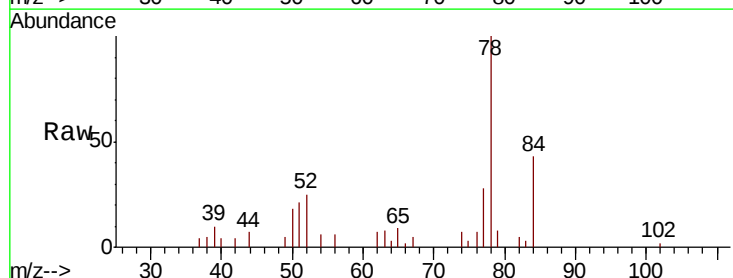
Manual Integrations
APPROVED

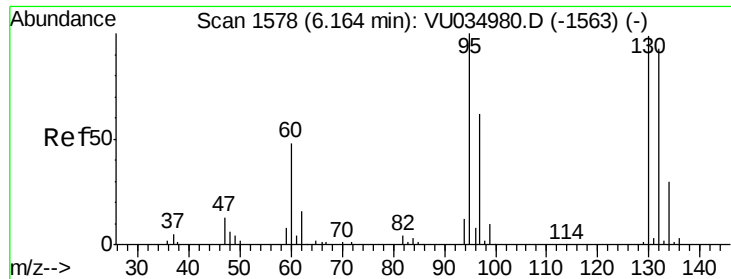
MMDadoda
10/9/2019 3:47:57 PM



#33
Benzene
Concen: 0.263 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Tgt Ion: 78 Resp: 14328





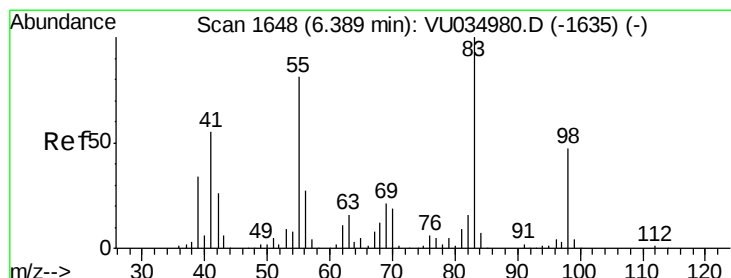
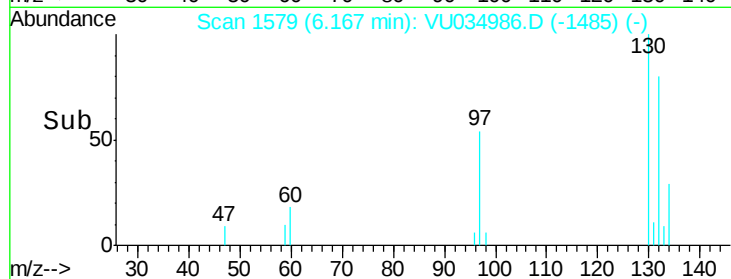
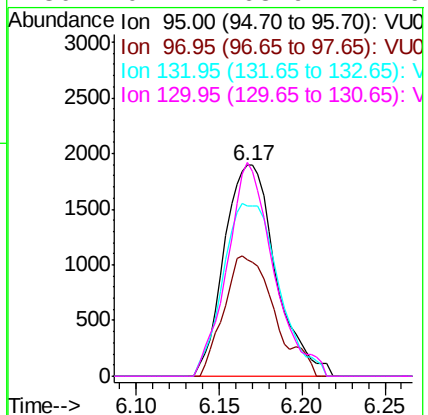
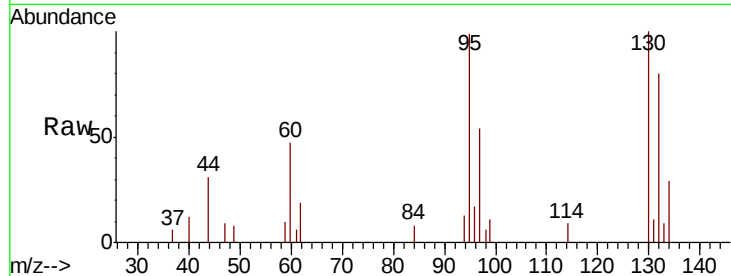
#34
 Trichloroethene
 Concen: 0.291 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU034986.D
 Acq: 08 Oct 2019 12:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion:	95	Resp:	4082
Ion	Ratio	Lower	Upper
95	100		
97	55.0	44.5	82.7
132	80.9	66.6	123.8
130	101.2	68.9	127.9

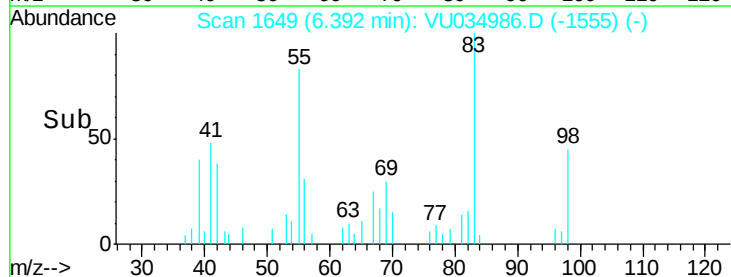
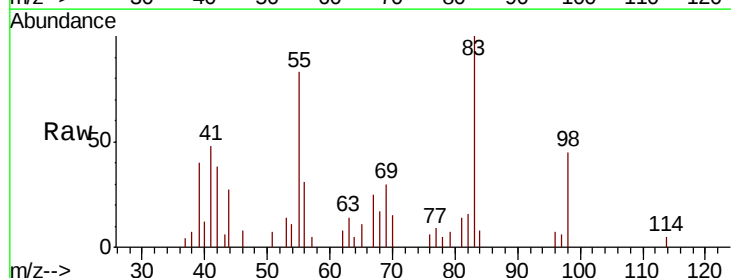
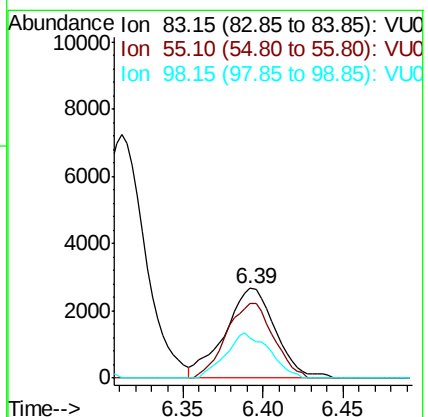
Manual Integrations
 APPROVED

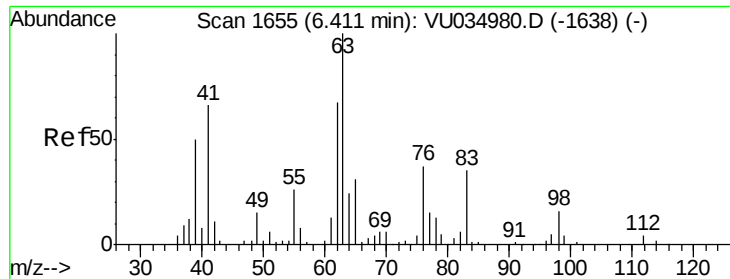
MMDadoda
 10/9/2019 3:47:57 PM



#35
 Methylcyclohexane
 Concen: 0.254 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU034986.D
 Acq: 08 Oct 2019 12:15

Tgt Ion:	83	Resp:	5771
Ion	Ratio	Lower	Upper
83	100		
55	77.2	62.6	94.0
98	43.6	36.2	54.2





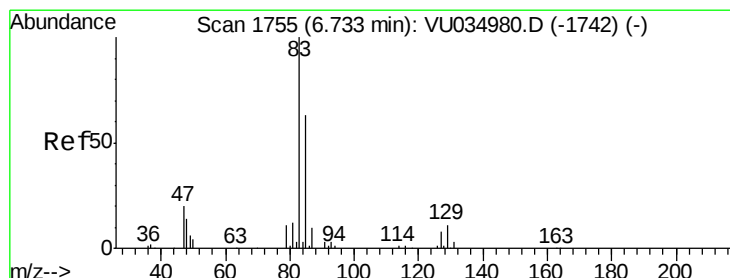
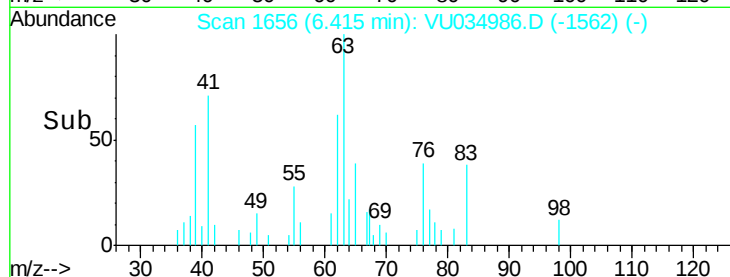
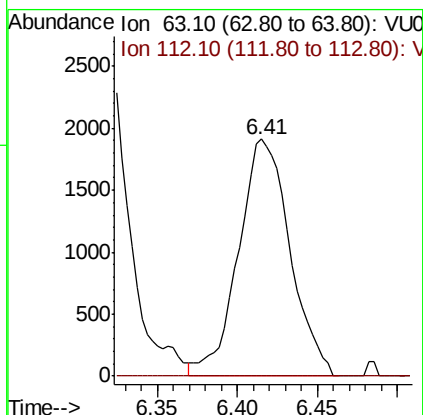
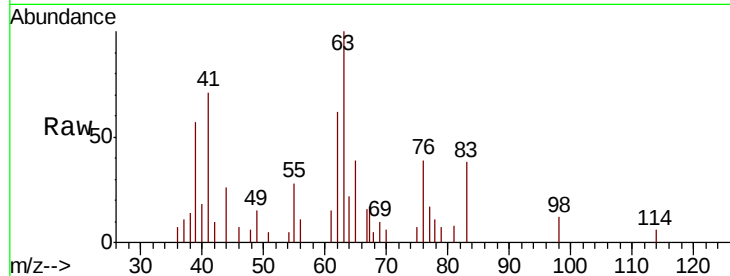
#37
 1,2-Dichloropropane
 Concen: 0.288 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU034986.D
 Acq: 08 Oct 2019 12:15

Instrument :
 MSVOA_U
 ClientSampled :
 MDL04

Tot Ion: 63 Resp: 4227
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#

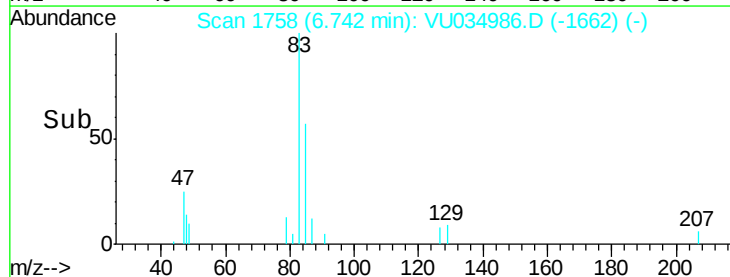
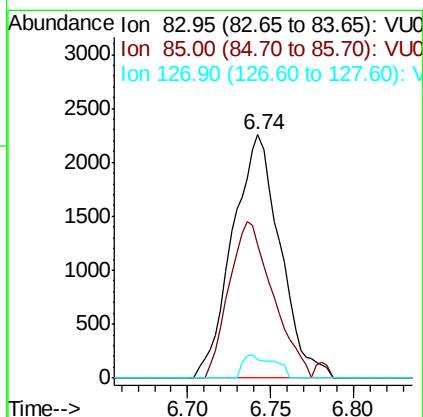
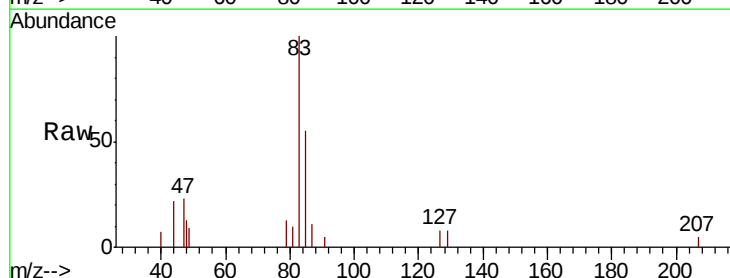
Manual Integrations
 APPROVED

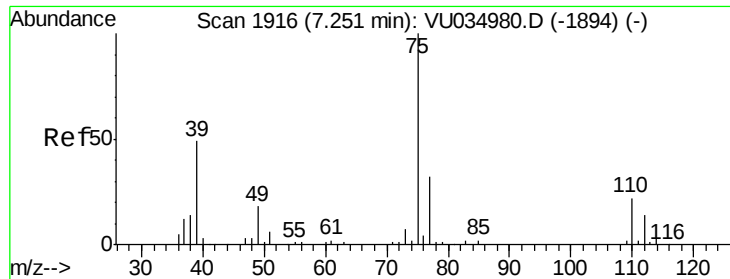
MMDadoda
 10/9/2019 3:47:57 PM



#38
 Bromodichloromethane
 Concen: 0.261 ug/L
 RT: 6.74 min Scan# 1758
 Delta R.T. 0.01 min
 Lab File: VU034986.D
 Acq: 08 Oct 2019 12:15

Tgt Ion: 83 Resp: 4494
 Ion Ratio Lower Upper
 83 100
 85 54.7 44.0 81.8
 127 7.7 7.0 10.4





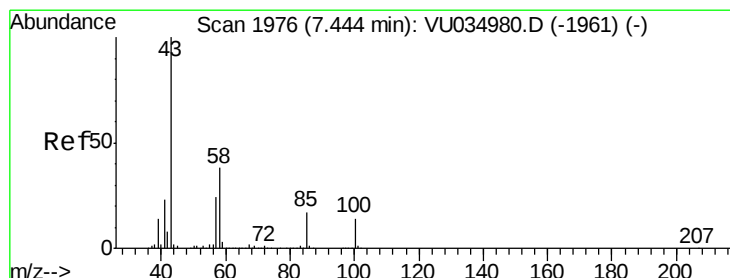
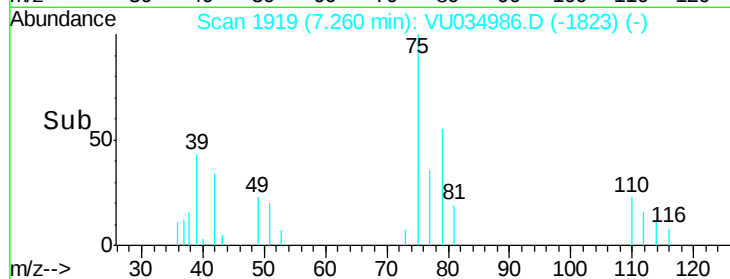
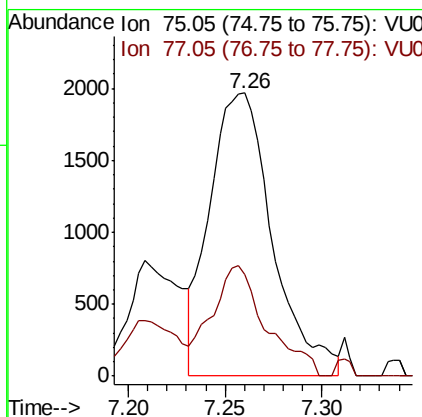
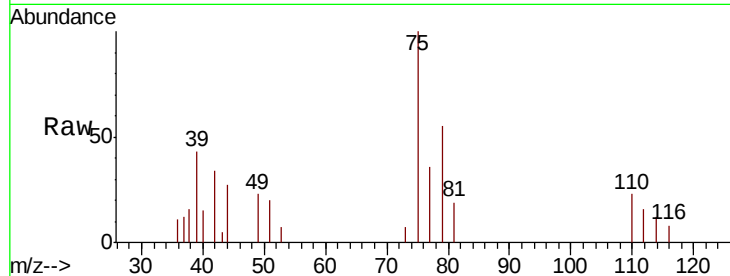
#39
 cis-1,3-Dichloropropene
 Concen: 0.224 ug/L
 RT: 7.26 min Scan# 1919
 Delta R.T. 0.01 min
 Lab File: VU034986.D
 Acq: 08 Oct 2019 12:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
77	36.1	22.1	41.1

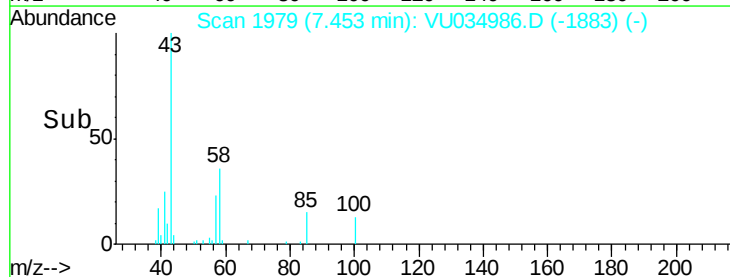
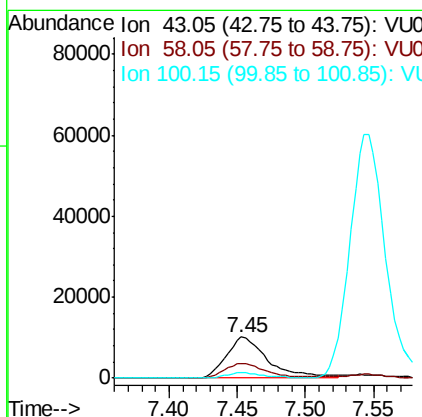
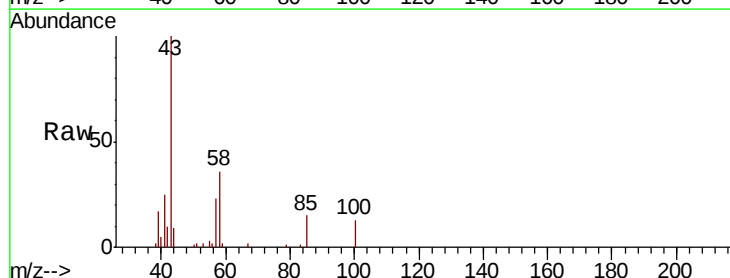
Manual Integrations
 APPROVED

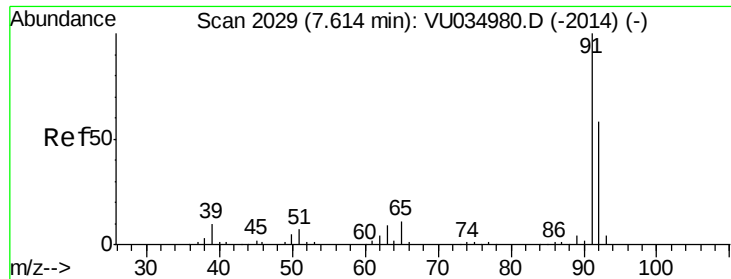
MMDadoda
 10/9/2019 3:47:57 PM



#40
 4-Methyl-2-pentanone
 Concen: 2.350 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.01 min
 Lab File: VU034986.D
 Acq: 08 Oct 2019 12:15

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.1	32.4	48.6
100	0.0	11.9	17.9#





#42

Toluene

Concen: 0.268 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.01 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Instrument :

MSVOA_U

ClientSampled :

MDL04

Tot Ion: 91 Resp: 15258

Ion Ratio Lower Upper

91 100

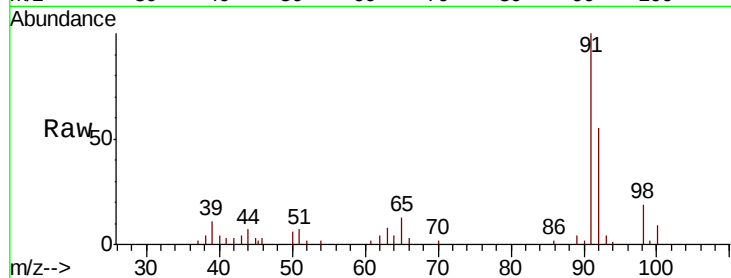
92 55.1 40.0 74.2

Manual Integrations

APPROVED

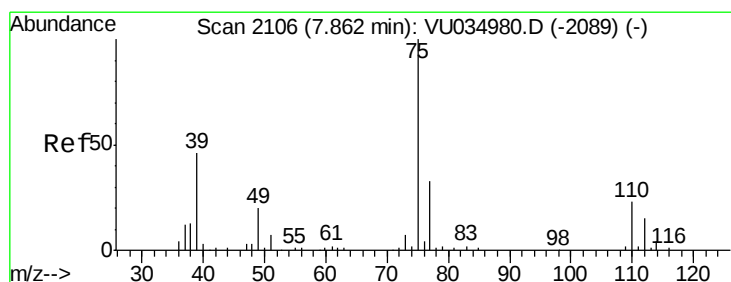
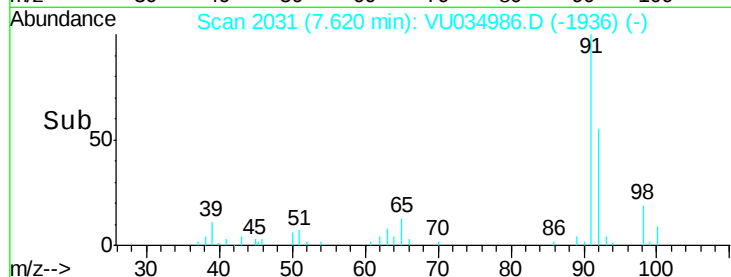
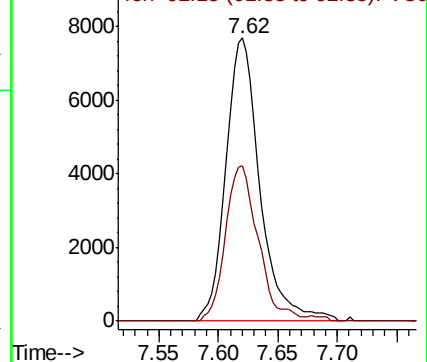
MMDadoda

10/9/2019 3:47:57 PM



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.260 ug/L m

RT: 7.87 min Scan# 2109

Delta R.T. 0.01 min

Lab File: VU034986.D

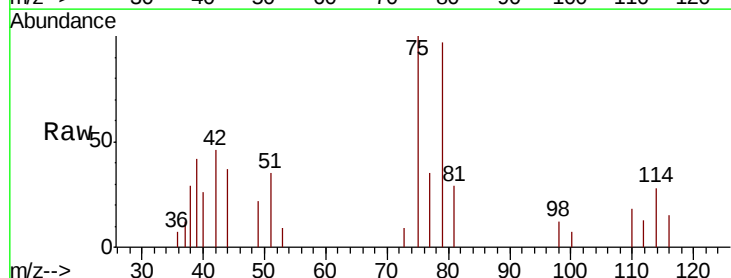
Acq: 08 Oct 2019 12:15

Tgt Ion: 75 Resp: 4013

Ion Ratio Lower Upper

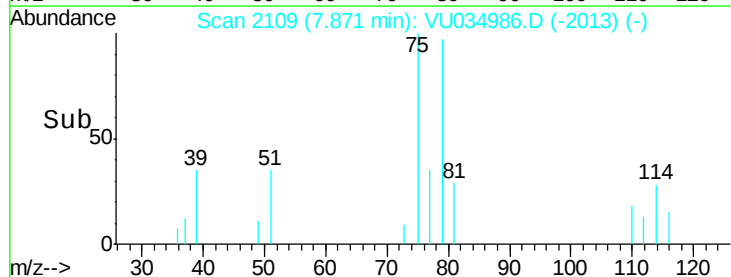
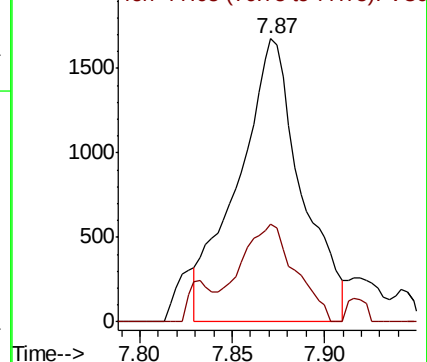
75 100

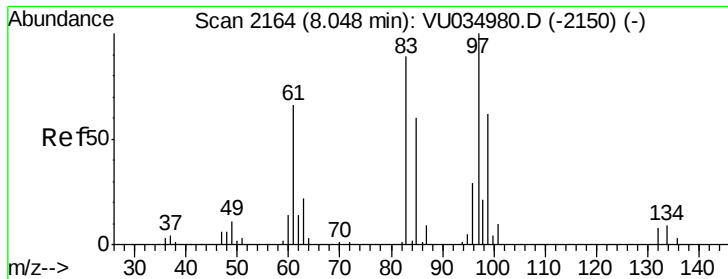
77 34.5 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





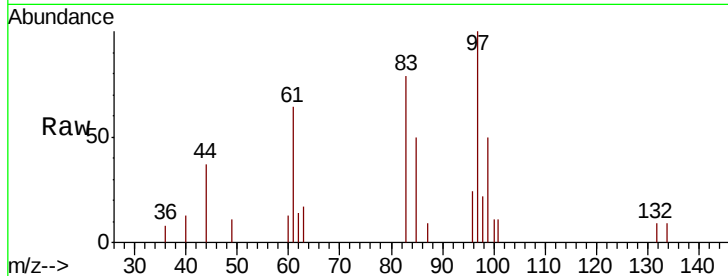
#45
1,1,2-Trichloroethane
Concen: 0.271 ug/L
RT: 8.05 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion:	97	Resp:	2640
Ion	Ratio	Lower	Upper
97	100		
99	50.5	42.3	78.5
83	79.3	58.0	107.6
85	49.8	37.8	70.2

Manual Integrations
APPROVED

MMDadoda
10/9/2019 3:47:57 PM



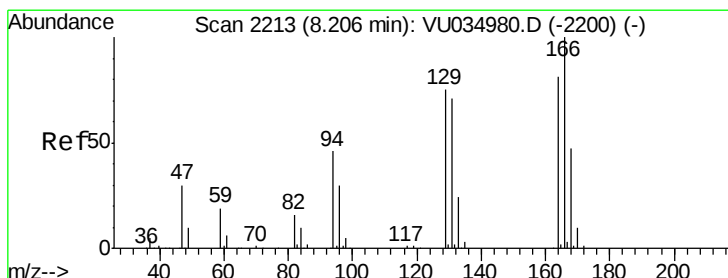
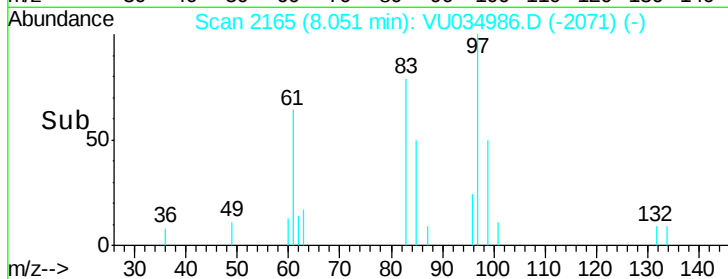
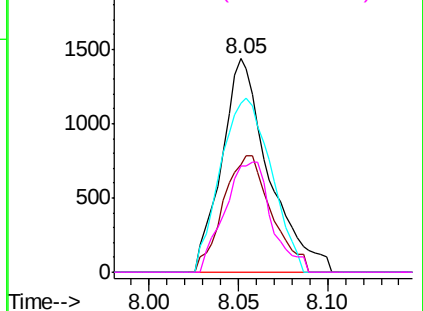
Abundance

Ion 96.95 (96.65 to 97.65): VU034986.D (-2160) (-)

Ion 99.05 (98.75 to 99.75): VU034986.D (-2160) (-)

Ion 82.95 (82.65 to 83.65): VU034986.D (-2160) (-)

Ion 85.00 (84.70 to 85.70): VU034986.D (-2160) (-)



#47
Tetrachloroethene
Concen: 0.256 ug/L
RT: 8.21 min Scan# 2215
Delta R.T. 0.01 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Tgt Ion:	164	Resp:	2909
Ion	Ratio	Lower	Upper
164	100		
129	75.8	68.5	127.1
131	86.5	67.3	124.9
166	119.3	93.1	172.9

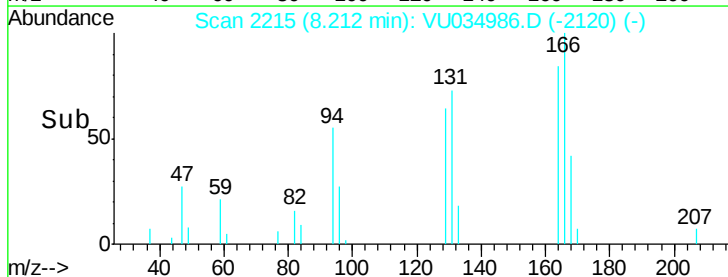
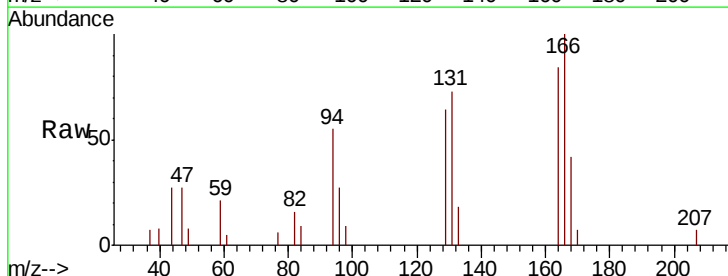
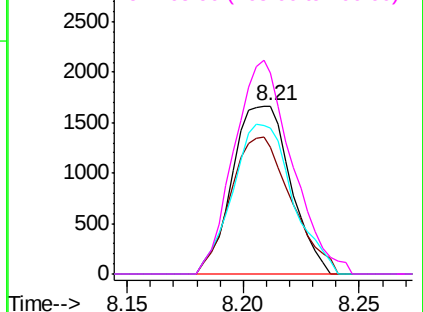
Abundance

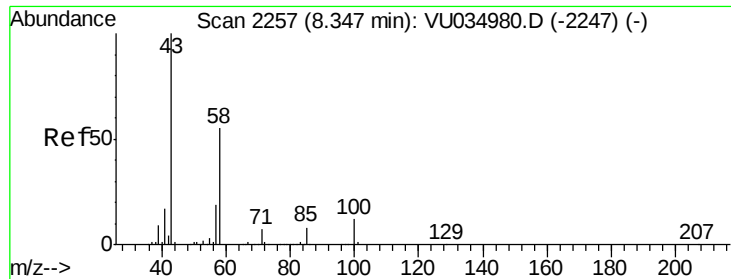
Ion 163.90 (163.60 to 164.60): VU034986.D (-2210) (-)

Ion 128.95 (128.65 to 129.65): VU034986.D (-2210) (-)

Ion 130.95 (130.65 to 131.65): VU034986.D (-2210) (-)

Ion 165.90 (165.60 to 166.60): VU034986.D (-2210) (-)





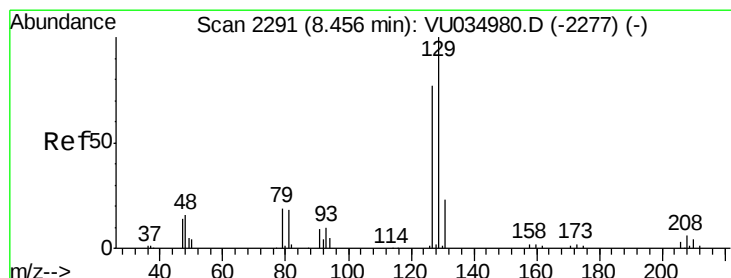
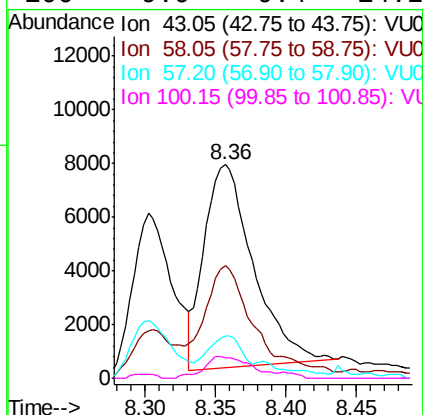
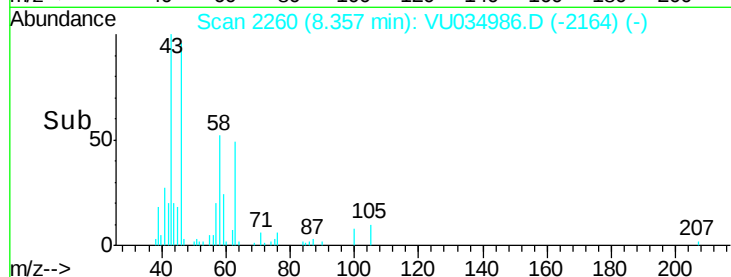
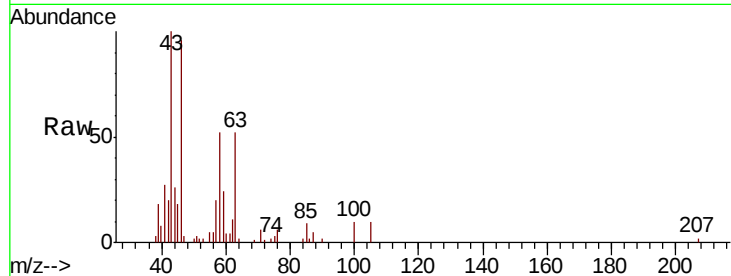
#48
2-Hexanone
Concen: 2.917 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.01 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion:	43	Resp:	18492
Ion Ratio	Lower	Upper	
43	100		
58	53.2	44.1	66.1
57	9.2	15.8	23.8
100	9.9	9.4	14.2

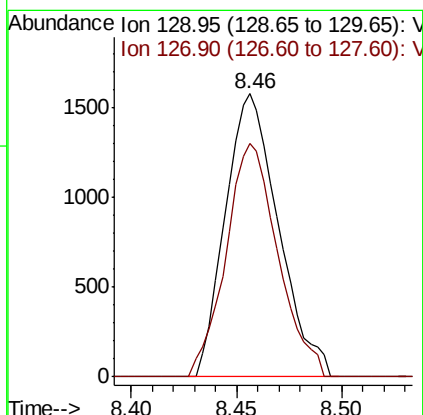
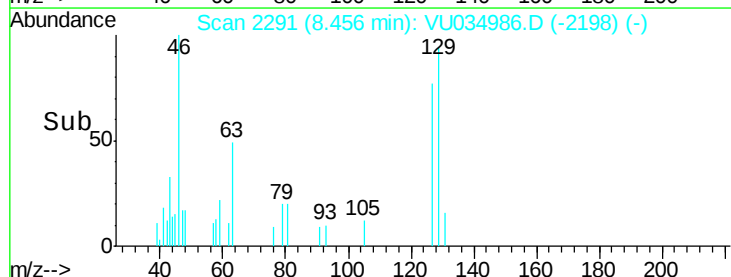
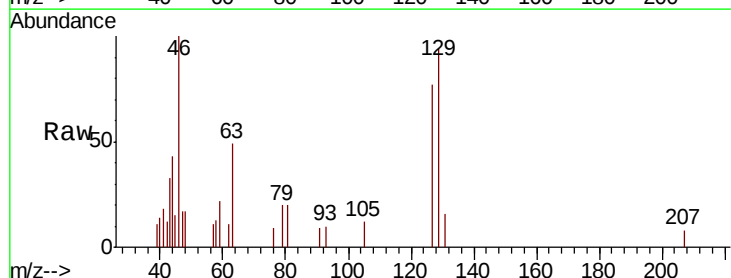
Manual Integrations
APPROVED

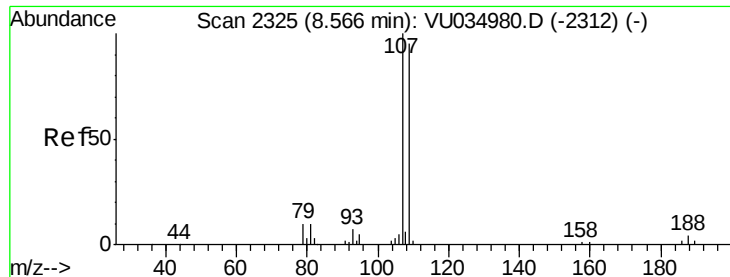
MMDadoda
10/9/2019 3:47:57 PM



#49
Dibromochloromethane
Concen: 0.245 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Tgt Ion:	129	Resp:	2758
Ion Ratio	Lower	Upper	
129	100		
127	82.4	51.9	96.5





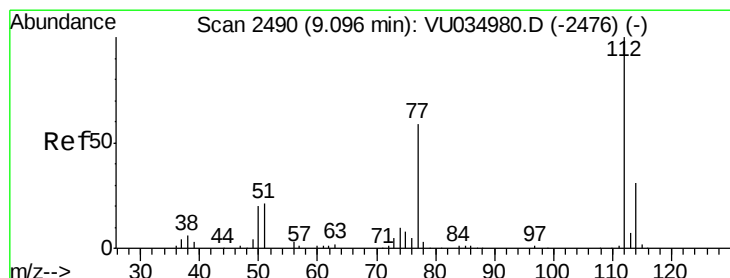
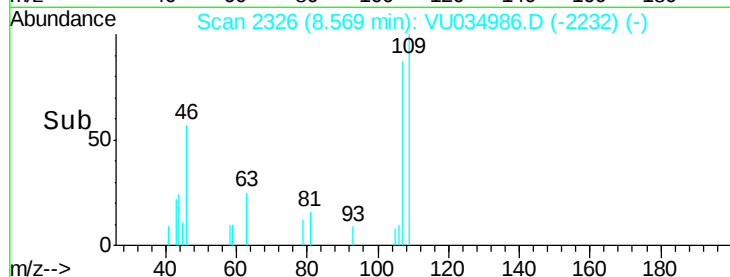
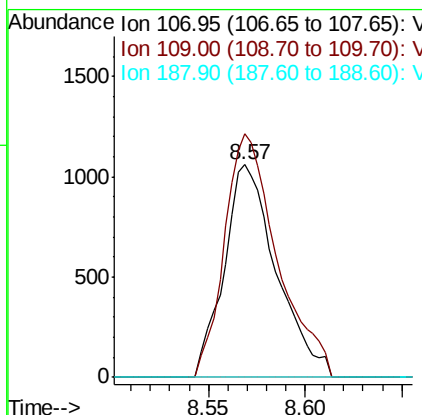
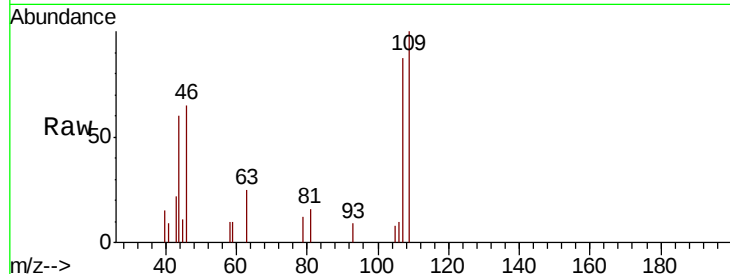
#50
1,2-Dibromoethane
Concen: 0.213 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Instrument :
MSVOA_U
ClientSampleId :
MDL04

Tot Ion	Ratio	Resp	Lower	Upper
107	100	1988		
109	114.6	64.8	120.4	
188	0.0	3.0	4.6#	

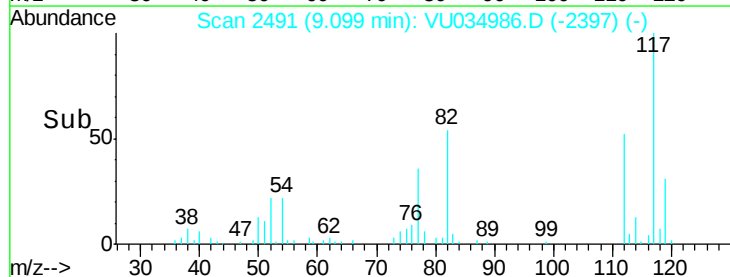
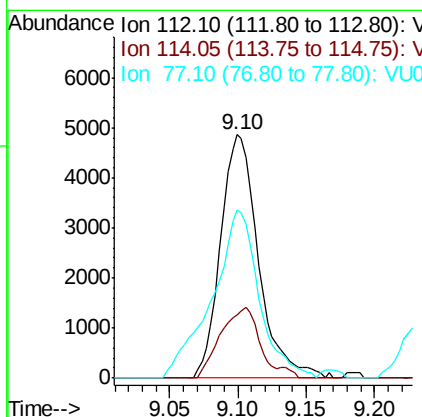
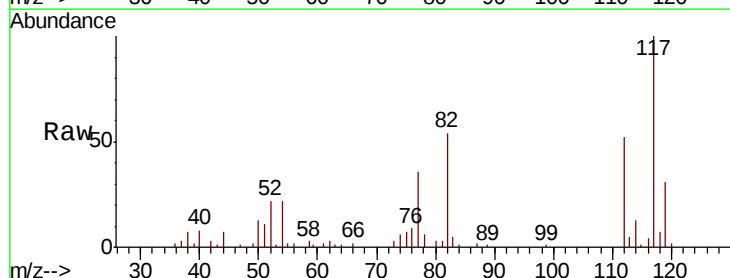
Manual Integrations
APPROVED

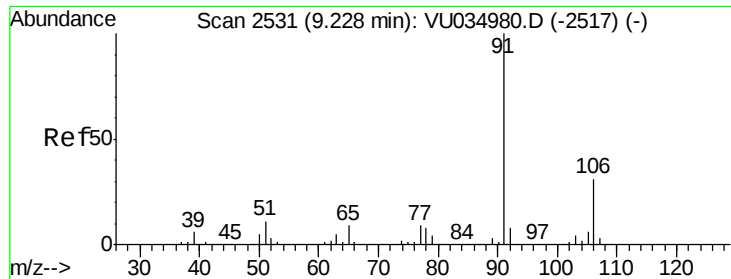
MMDadoda
10/9/2019 3:47:57 PM



#51
Chlorobenzene
Concen: 0.254 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	9369		
114	25.9	22.1	41.1	
77	69.2	46.9	70.3	





#52

Ethylbenzene

Concen: 0.246 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.01 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

MDL04

Tot Ion: 91 Resp: 15456

Ion Ratio Lower Upper

91 100

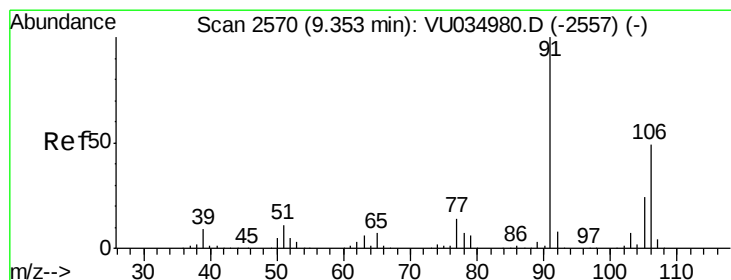
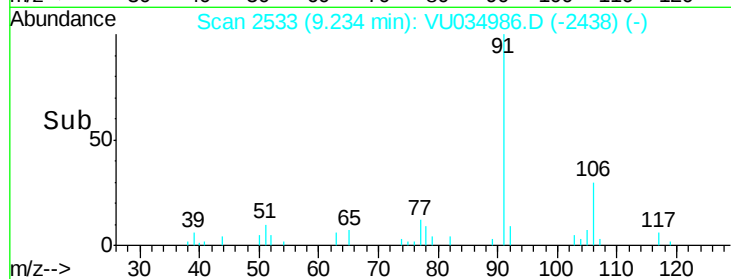
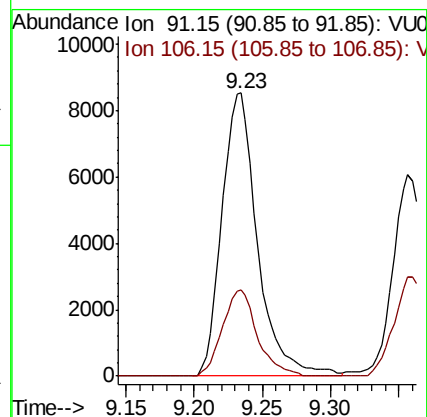
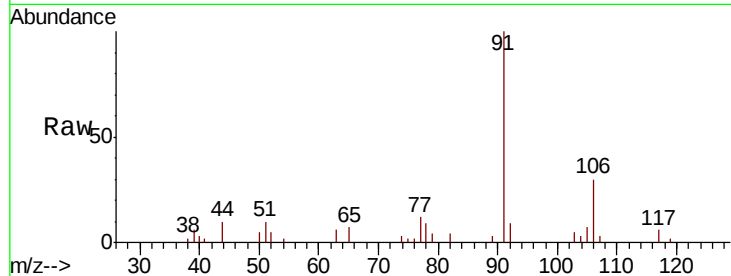
106 30.4 21.6 40.2

Manual Integrations

APPROVED

MMDadoda

10/9/2019 3:47:57 PM



#53

m,p-Xylene

Concen: 0.234 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU034986.D

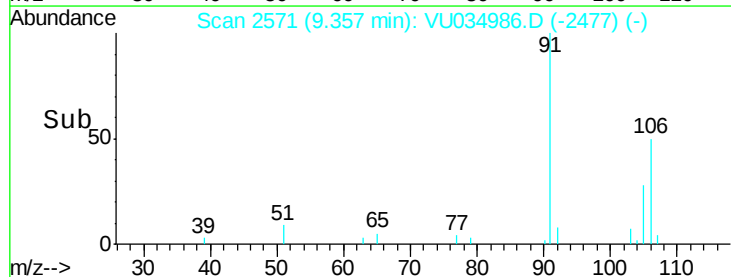
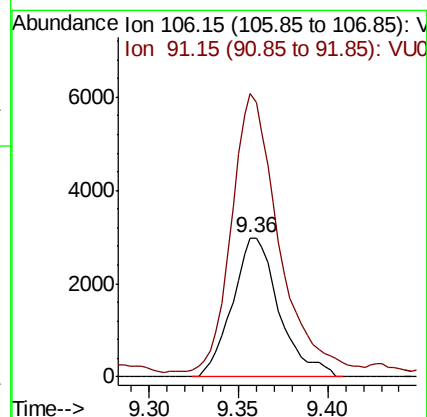
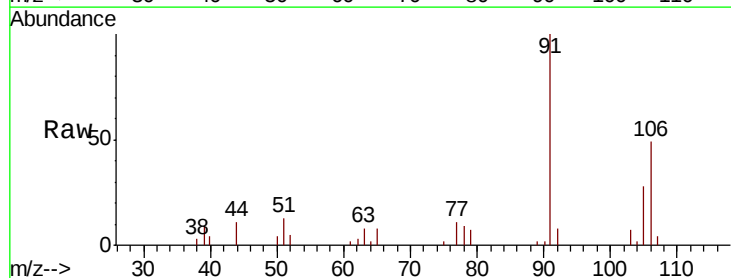
Acq: 08 Oct 2019 12:15

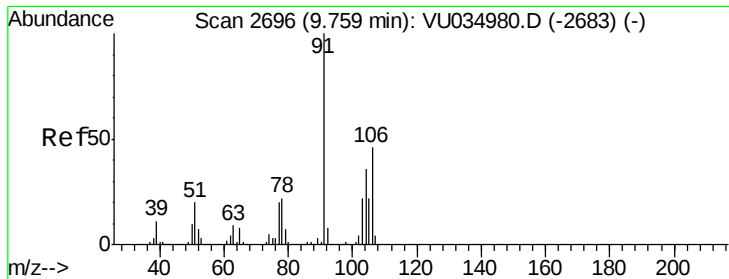
Tgt Ion: 106 Resp: 5435

Ion Ratio Lower Upper

106 100

91 203.5 147.6 274.0





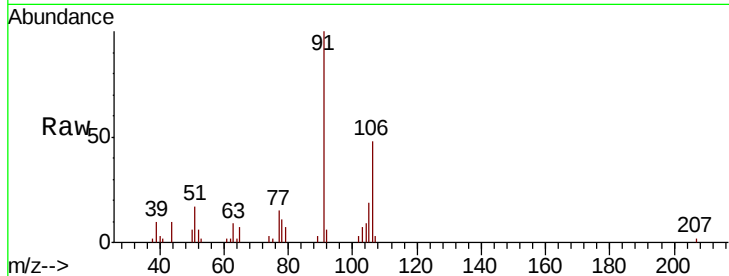
#54
o-Xylene
Concen: 0.227 ug/L
RT: 9.76 min Scan# 2696
Delta R.T. -0.00 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Instrument :
MSVOA_U
ClientSampleId :
MDL04

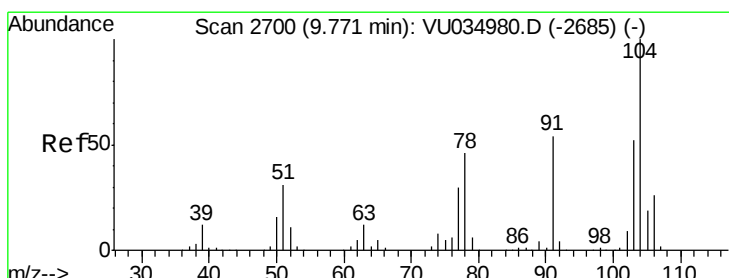
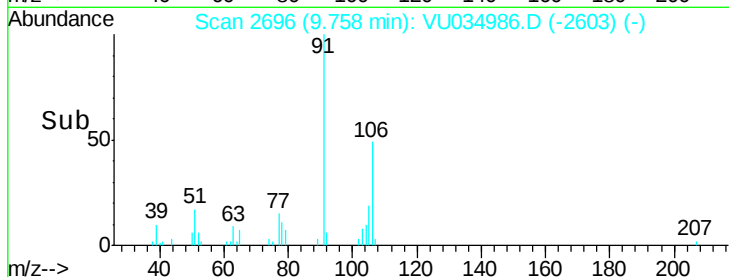
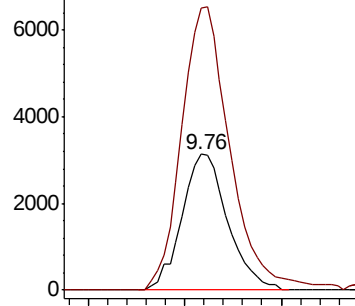
Tot Ion:106 Resp: 5149
Ion Ratio Lower Upper
106 100
91 207.6 148.5 275.7

Manual Integrations
APPROVED

MMDadoda
10/9/2019 3:47:57 PM

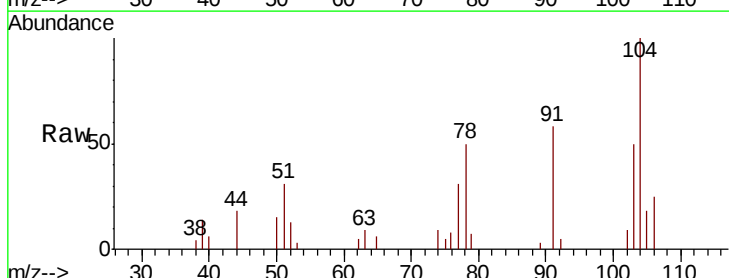


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

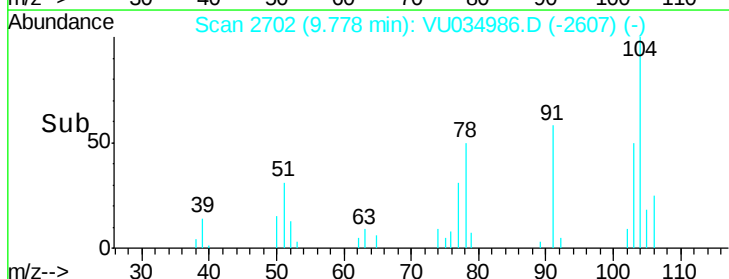
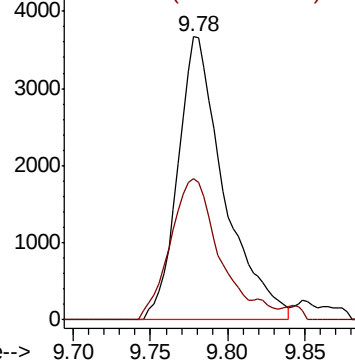


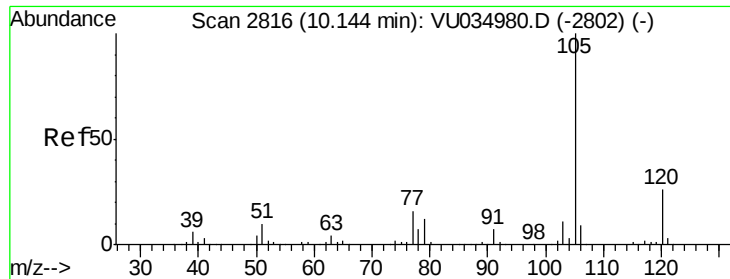
#55
Styrene
Concen: 0.208 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.01 min
Lab File: VU034986.D
Acq: 08 Oct 2019 12:15

Tgt Ion:104 Resp: 7622
Ion Ratio Lower Upper
104 100
78 50.0 32.8 60.8



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.233 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Instrument :

MSVOA_U

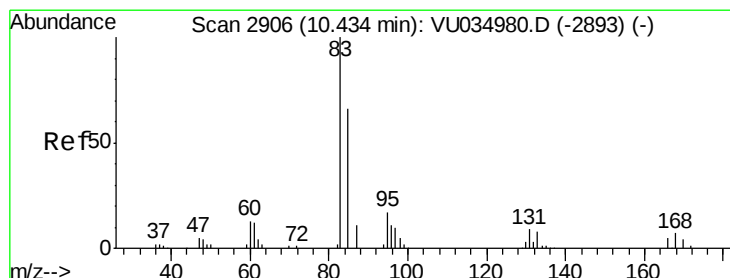
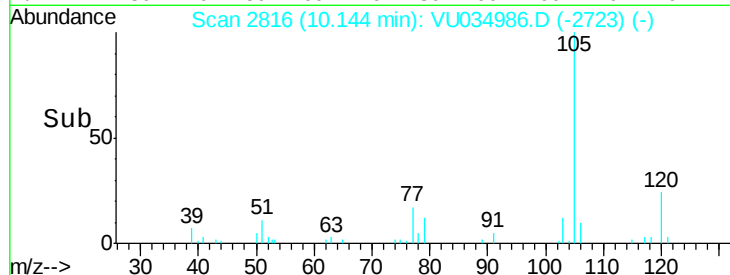
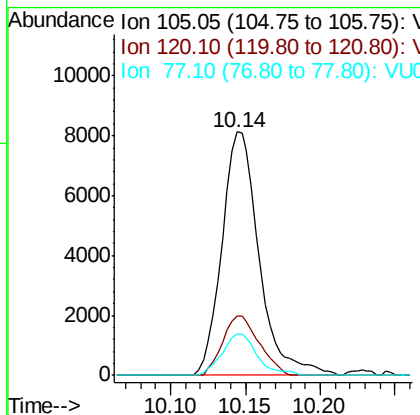
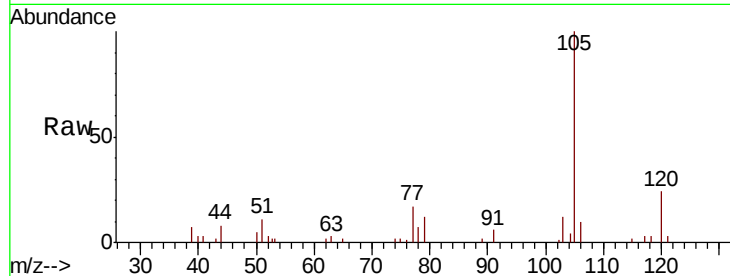
ClientSampled :

MDL04

Tot Ion:	105	Resp:	14062
Ion Ratio	Lower	Upper	
105	100		
120	23.8	21.3	31.9
77	16.2	13.0	19.4

Manual Integrations
APPROVED

MMDadoda
10/9/2019 3:47:57 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 0.295 ug/L

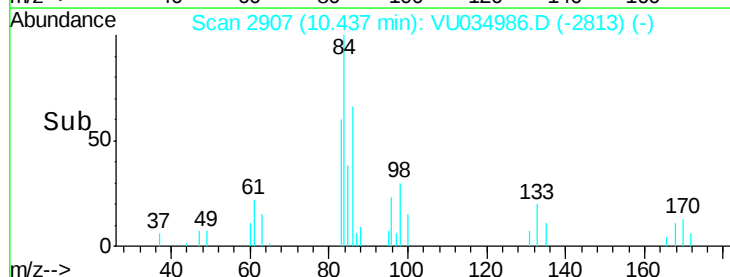
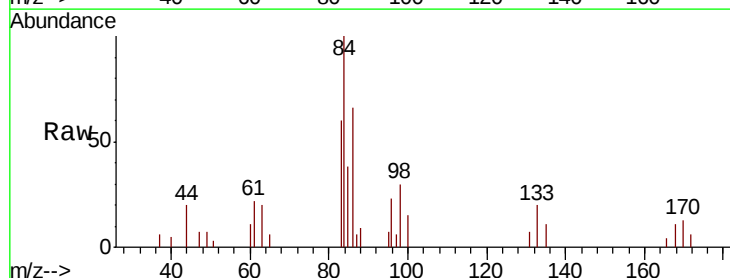
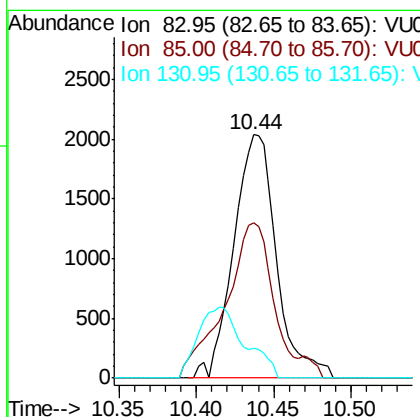
RT: 10.44 min Scan# 2907

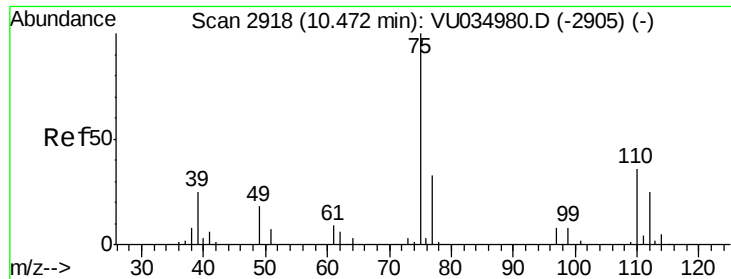
Delta R.T. 0.00 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Tgt Ion:	83	Resp:	3909
Ion Ratio	Lower	Upper	
83	100		
85	63.6	44.6	82.8
131	12.1	7.4	11.2#





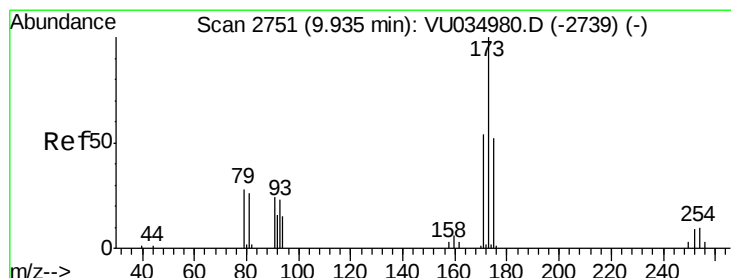
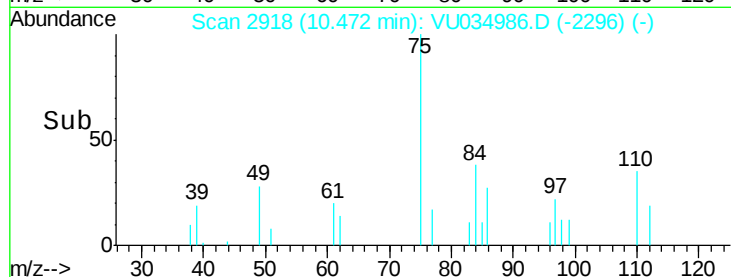
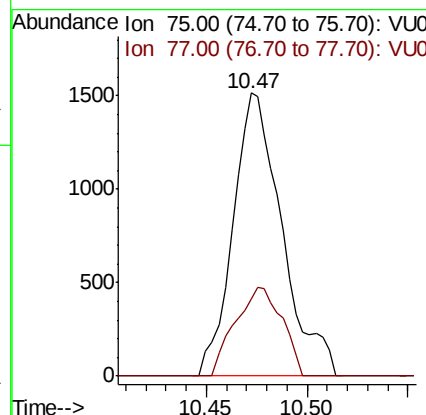
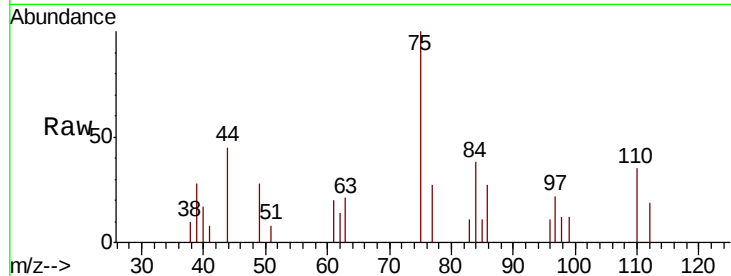
#59
 1,2,3-Trichloropropane
 Concen: 0.270 ug/L
 RT: 10.47 min Scan# 2918
 Delta R.T. -0.00 min
 Lab File: VU034986.D
 Acq: 08 Oct 2019 12:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL04

Tot Ion: 75 Resp: 2564
 Ion Ratio Lower Upper
 75 100
 77 30.1 26.5 39.7

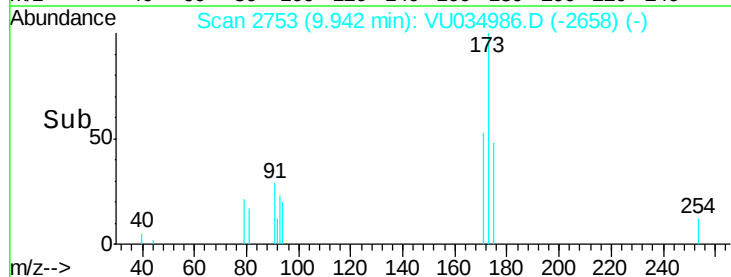
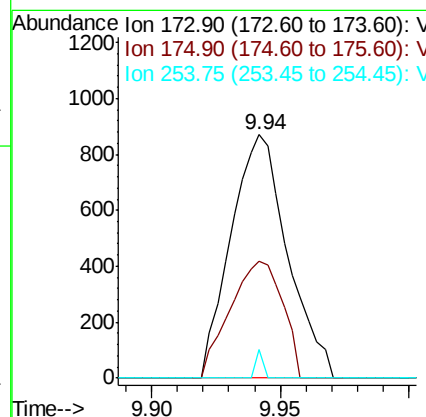
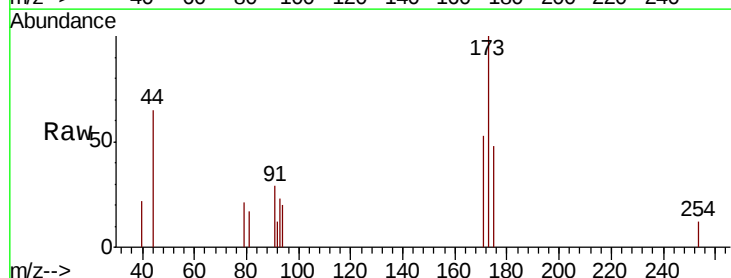
Manual Integrations
 APPROVED

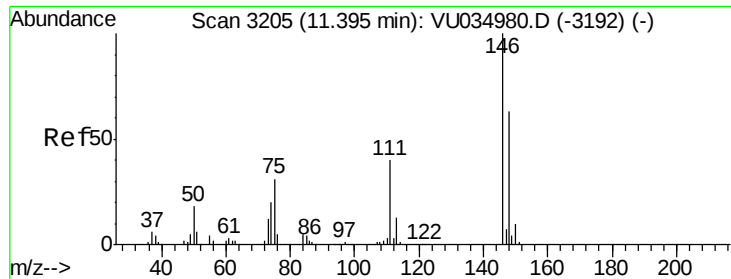
MMDadoda
 10/9/2019 3:47:57 PM



#61
 Bromoform
 Concen: 0.246 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.01 min
 Lab File: VU034986.D
 Acq: 08 Oct 2019 12:15

Tgt Ion: 173 Resp: 1328
 Ion Ratio Lower Upper
 173 100
 175 44.6 37.2 55.8
 254 1.5 6.6 9.8#





#62

1,3-Dichlorobenzene

Concen: 0.263 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Instrument :

MSVOA_U

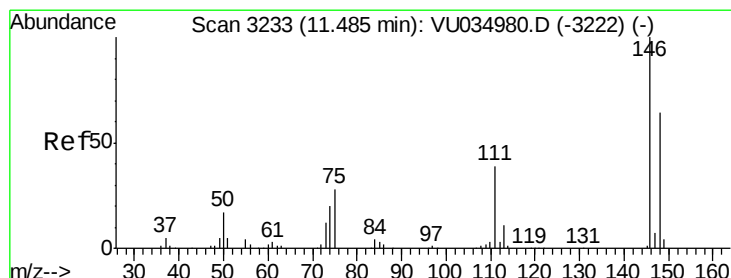
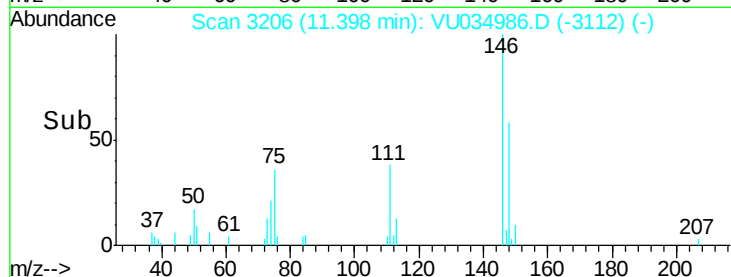
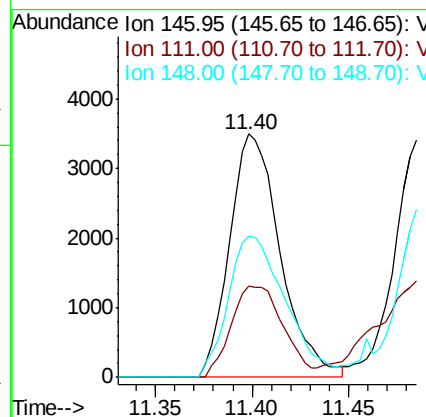
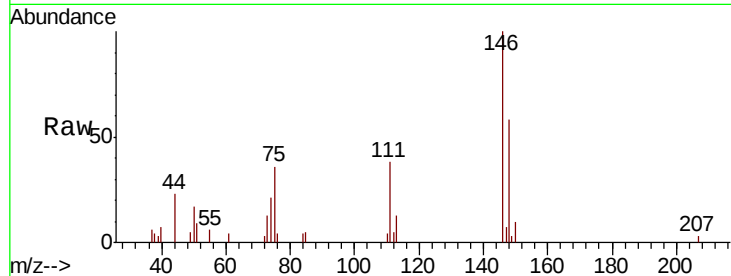
ClientSampleId :

MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	28.6	53.2
148	58.0	45.0	83.6

Manual Integrations
APPROVED

MMDadoda
10/9/2019 3:47:57 PM



#63

1,4-Dichlorobenzene

Concen: 0.289 ug/L

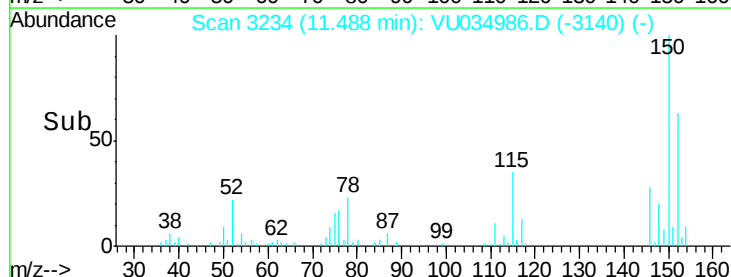
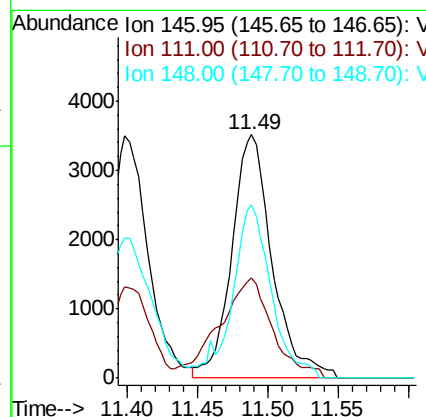
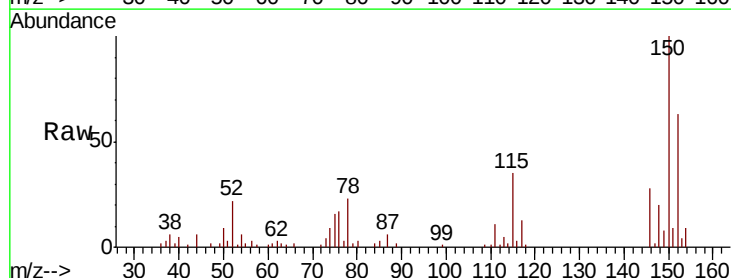
RT: 11.49 min Scan# 3234

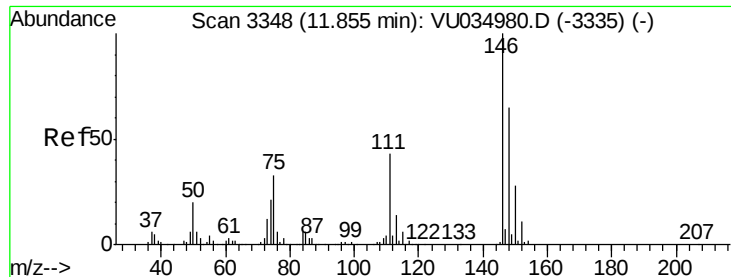
Delta R.T. 0.00 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.9	27.9	51.7
148	71.1	44.1	81.9





#65

1,2-Dichlorobenzene

Concen: 0.303 ug/L

RT: 11.86 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Instrument :

MSVOA_U

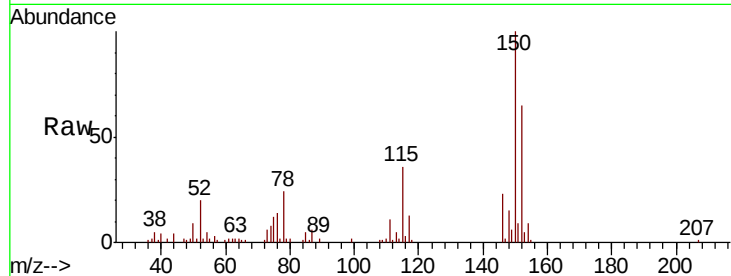
ClientSampled :

MDL04

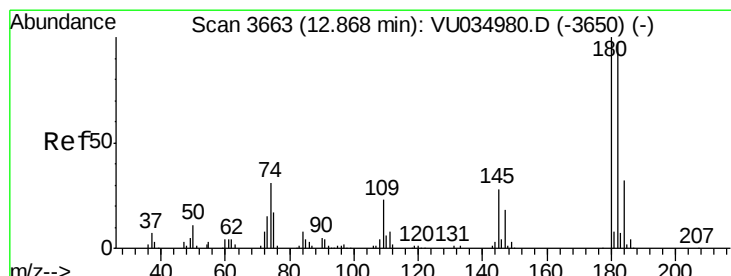
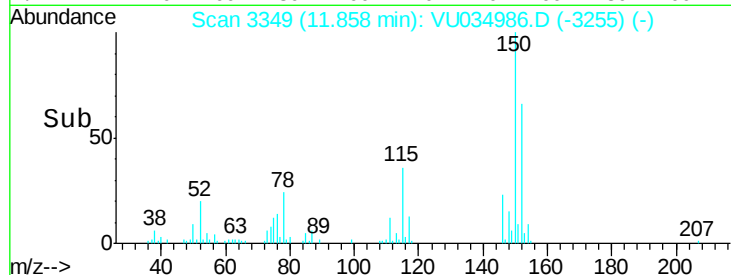
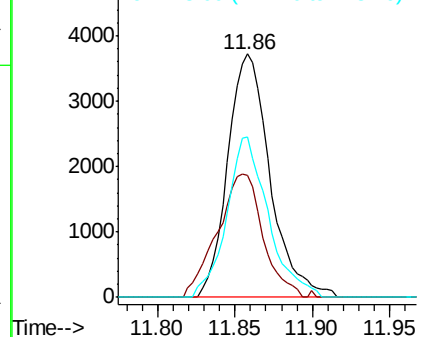
Tot Ion:	146	Resp:	7068
Ion Ratio	Lower	Upper	
146	100		
111	50.2	34.2	51.4
148	65.9	52.0	78.0

Manual Integrations
APPROVED

MMDadoda
10/9/2019 3:47:57 PM



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

1,3,5-Trichlorobenzene

Concen: 0.237 ug/L

RT: 12.88 min Scan# 3666

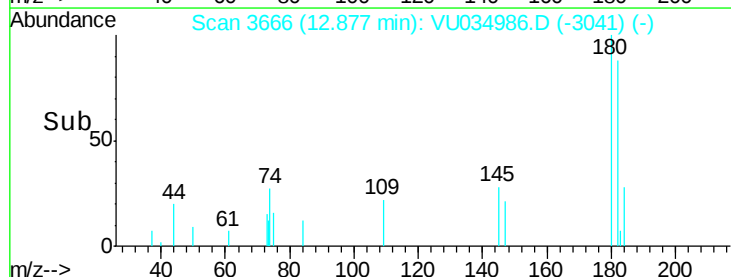
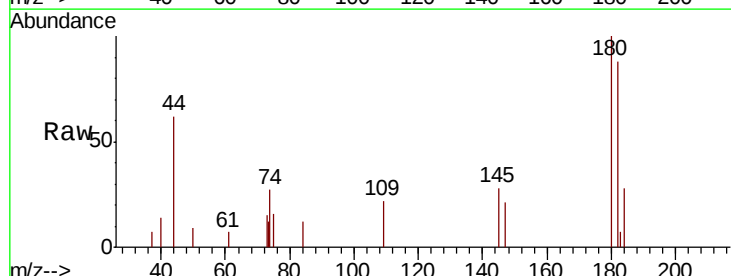
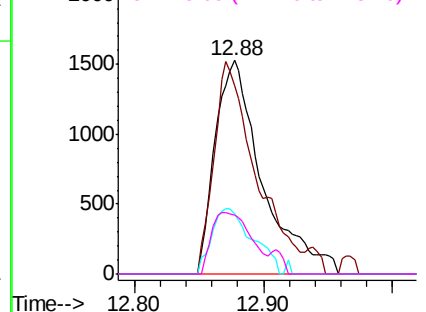
Delta R.T. 0.01 min

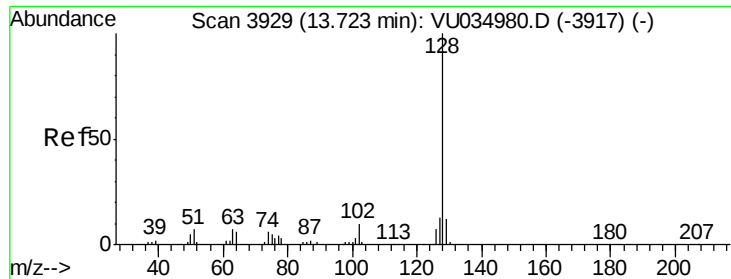
Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Tgt Ion:	180	Resp:	3885
Ion Ratio	Lower	Upper	
180	100		
182	88.5	76.0	114.0
184	26.5	24.2	36.2
145	24.2	24.6	37.0#

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





#69

Naphthalene

Concen: 0.123 ug/L m

RT: 13.78 min Scan# 3947

Delta R.T. 0.06 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Instrument :

MSVOA_U

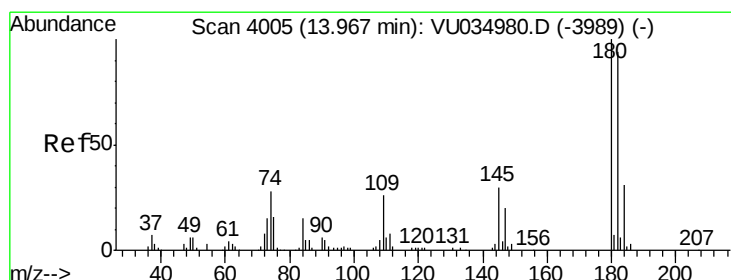
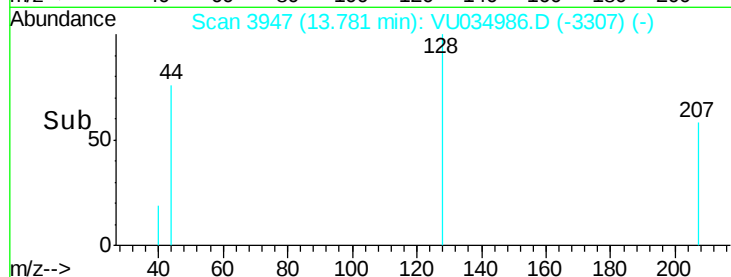
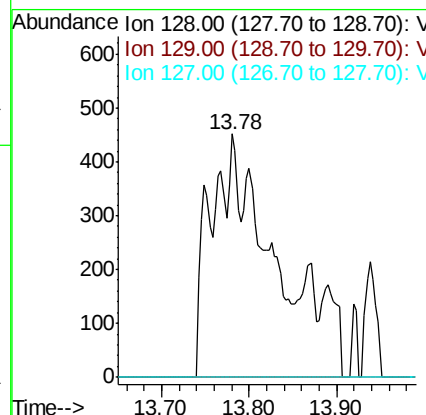
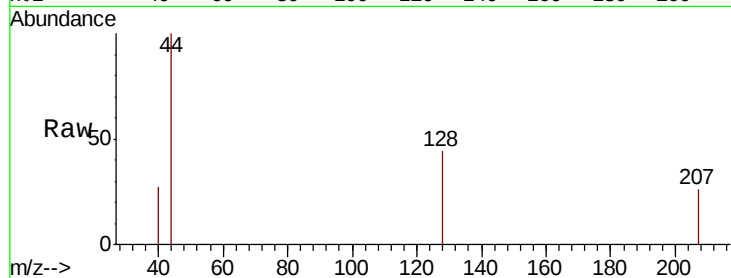
ClientSampleId :

MDL04

Tot Ion:	128	Resp:	2349
Ion Ratio	Lower	Upper	
128	100		
129	0.0	8.7	13.1#
127	0.0	10.6	15.8#

Manual Integrations
APPROVED

MMDadoda
10/9/2019 3:47:57 PM



#70

1,2,3-Trichlorobenzene

Concen: 0.165 ug/L m

RT: 14.01 min Scan# 4019

Delta R.T. 0.04 min

Lab File: VU034986.D

Acq: 08 Oct 2019 12:15

Tgt Ion:	180	Resp:	1969
Ion Ratio	Lower	Upper	
180	100		
182	69.8	77.0	115.4#
145	21.1	25.9	38.9#

