

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021020\
 Data File : VU036712.D
 Acq On : 10 Feb 2020 16:18
 Operator : JC/MD
 Sample : MDL07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 2/12/2020 3:10:14 PM

Quant Time: Feb 11 04:03:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 03:31:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	261630	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	247282	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	103750	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	68240	39.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.22%
7) Chloroethane-d5	1.93	69	70274	43.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.88%
11) 1,1-Dichloroethene-d2	2.59	63	103598	31.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	62.90%
21) 2-Butanone-d5	4.68	46	147286	98.94	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.94%
24) Chloroform-d	5.11	84	142542	45.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.28%
26) 1,2-Dichloroethane-d4	5.75	65	102925	47.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.30%
32) Benzene-d6	5.77	84	300536	46.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.46%
36) 1,2-Dichloropropane-d6	6.73	67	104233	48.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.60%
41) Toluene-d8	7.93	98	270617	45.46	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.92%
43) trans-1,3-Dichloropropene-	8.21	79	46300	44.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.62%
47) 2-Hexanone-d5	8.67	63	120560	97.88	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.88%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	151628	47.68	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.36%
66) 1,2-Dichlorobenzene-d4	12.21	152	92174	48.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	4214	2.331	ug/L	94
3) Chloromethane	1.54	50	5375	2.509	ug/L	98
5) Vinyl chloride	1.62	62	6358	2.757	ug/L #	61
6) Bromomethane	1.87	94	3332	2.304	ug/L	97
8) Chloroethane	1.95	64	4200	2.869	ug/L	84
9) Trichlorofluoromethane	2.16	101	6930	2.529	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	4713	2.871	ug/L	92
12) 1,1-Dichloroethene	2.61	96	4832	3.023	ug/L #	1
13) Acetone	2.66	43	10506	6.644	ug/L	94
14) Carbon disulfide	2.82	76	12003	2.513	ug/L	96
15) Methyl Acetate	2.99	43	5521	2.415	ug/L	95
16) Methylene chloride	3.08	84	6036	3.060	ug/L	99
17) trans-1,2-Dichloroethene	3.39	96	4588	2.698	ug/L	92
18) Methyl tert-butyl Ether	3.41	73	15203	2.576	ug/L	98
19) 1,1-Dichloroethane	3.92	63	8923	2.634	ug/L	93
20) cis-1,2-Dichloroethene	4.72	96	5230	2.699	ug/L	93
22) 2-Butanone	4.76	43	10683	5.692	ug/L	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021020\
 Data File : VU036712.D
 Acq On : 10 Feb 2020 16:18
 Operator : JC/MD
 Sample : MDL07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 2/12/2020 3:10:14 PM

Quant Time: Feb 11 04:03:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 03:31:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	2341	2.578	ug/L	92
25) Chloroform	5.13	83	14650	4.446	ug/L	99
27) 1,2-Dichloroethane	5.84	62	7582	2.736	ug/L #	93
29) Cyclohexane	5.43	56	7669	2.414	ug/L	95
30) 1,1,1-Trichloroethane	5.36	97	6820	2.596	ug/L	98
31) Carbon tetrachloride	5.57	117	5264m	2.475	ug/L	
33) Benzene	5.82	78	19878	2.658	ug/L	100
34) Trichloroethene	6.58	95	4762	2.575	ug/L	95
35) Methylcyclohexane	6.80	83	8107	2.489	ug/L	97
37) 1,2-Dichloropropane	6.83	63	5288	2.622	ug/L #	92
38) Bromodichloromethane	7.14	83	5867	2.394	ug/L #	96
39) cis-1,3-Dichloropropene	7.64	75	8021	2.489	ug/L	98
40) 4-Methyl-2-pentanone	7.83	43	16236	5.095	ug/L	99
42) Toluene	8.00	91	22425	2.775	ug/L	97
44) trans-1,3-Dichloropropene	8.24	75	7466	2.652	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	4773	2.594	ug/L	98
46) Tetrachloroethene	8.58	164	3444	2.654	ug/L	91
48) 2-Hexanone	8.72	43	16122	6.202	ug/L	93
49) Dibromochloromethane	8.84	129	4545	2.526	ug/L	94
50) 1,2-Dibromoethane	8.95	107	4925	2.548	ug/L #	94
51) Chlorobenzene	9.47	112	12851	2.641	ug/L	99
52) Ethylbenzene	9.60	91	22161	2.495	ug/L	96
53) m,p-Xylene	9.72	106	8352	2.549	ug/L	90
54) o-xylene	10.13	106	8037	2.476	ug/L	92
55) Styrene	10.14	104	11958	2.211	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.81	83	9171	2.766	ug/L #	95
59) Bromoform	10.32	173	2679	2.337	ug/L #	93
60) 1,2,3-Trichloropropane	10.85	75	7339	3.007	ug/L	98
61) Isopropylbenzene	10.51	105	20211	2.616	ug/L	98
62) 1,3,5-Trimethylbenzene	11.11	105	16581	2.503	ug/L	100
63) 1,2,4-Trimethylbenzene	11.49	105	16468	2.490	ug/L	98
64) 1,3-Dichlorobenzene	11.77	146	8389	2.582	ug/L	95
65) 1,4-Dichlorobenzene	11.86	146	8903	2.722	ug/L	95
67) 1,2-Dichlorobenzene	12.24	146	9273	2.819	ug/L	94
68) 1,2-Dibromo-3-chloropropan	13.01	75	1618	2.320	ug/L	96
69) 1,3,5-Trichlorobenzene	13.24	180	4934	2.190	ug/L	95
70) 1,2,4-trichlorobenzene	13.86	180	3196	1.701	ug/L	95
71) Naphthalene	14.10	128	10027	1.514	ug/L	99
72) 1,2,3-Trichlorobenzene	14.35	180	3305	1.766	ug/L	98

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

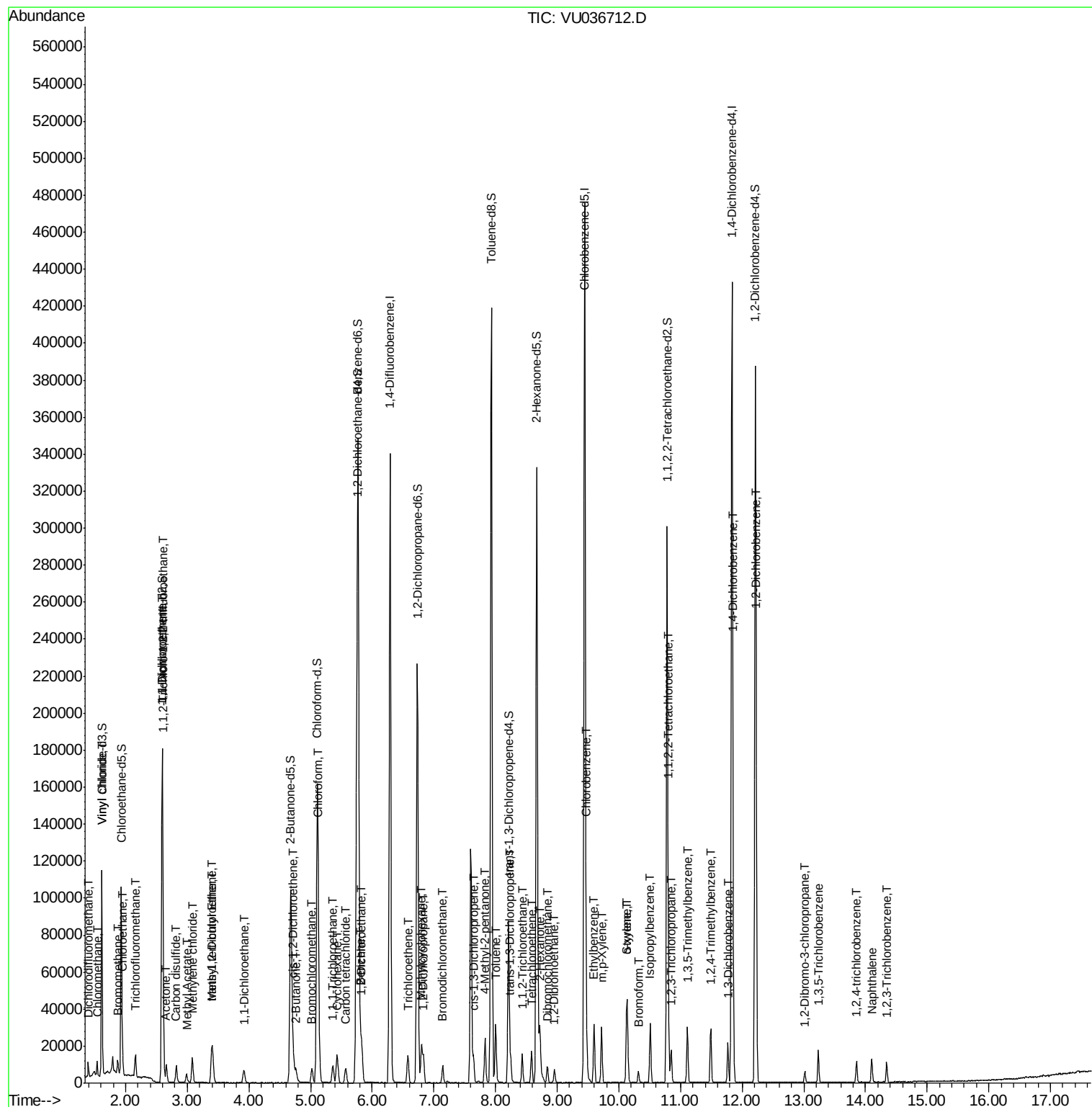
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU021020\
Data File : VU036712.D
Acq On : 10 Feb 2020 16:18
Operator : JC/MD
Sample : MDL07
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 15 Sample Multiplier: 1

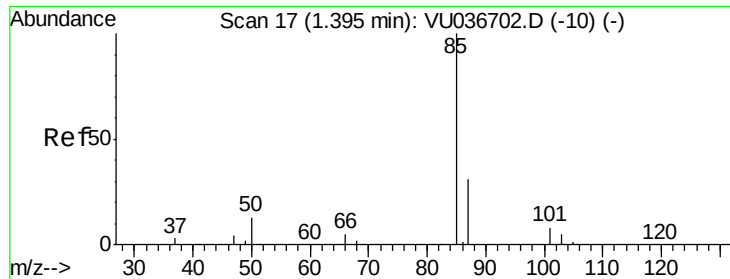
Instrument :
MSVOA_U
ClientSampleId :
MDL07

Manual Integrations
APPROVED

MMDadoda
2/12/2020 3:10:14 PM

Quant Time: Feb 11 04:03:48 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
Quant Title : VOC Analysis
QLast Update : Tue Feb 11 03:31:43 2020
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.331 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 85 Resp: 4214

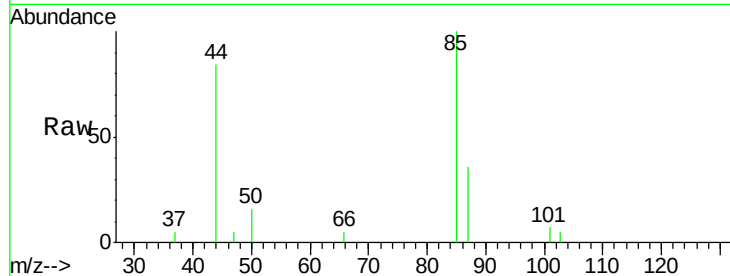
Ion Ratio Lower Upper

85 100

87 35.7 25.9 38.9

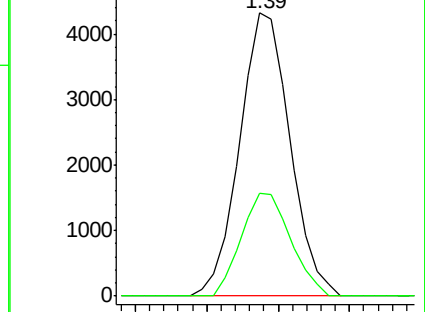
Manual Integrations
APPROVED

MMDadoda
2/12/2020 3:10:14 PM

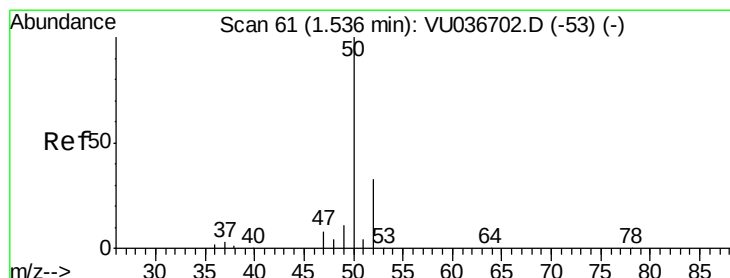
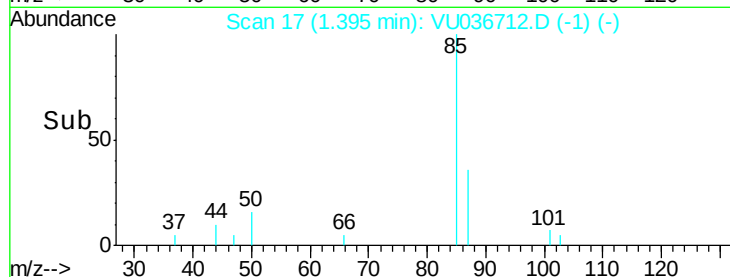


Abundance Ion 85.00 (84.70 to 85.70): VU036712.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU036712.D (-10) (-)



Time-->



#3

Chloromethane

Concen: 2.509 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036712.D

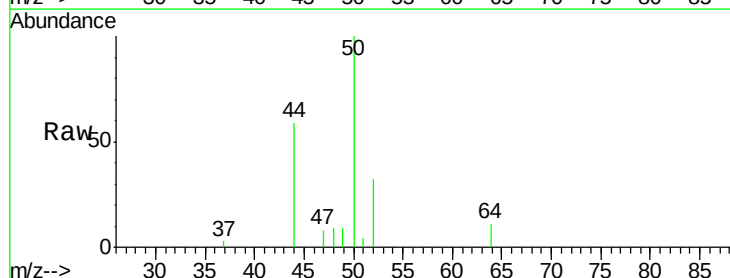
Acq: 10 Feb 2020 16:18

Tgt Ion: 50 Resp: 5375

Ion Ratio Lower Upper

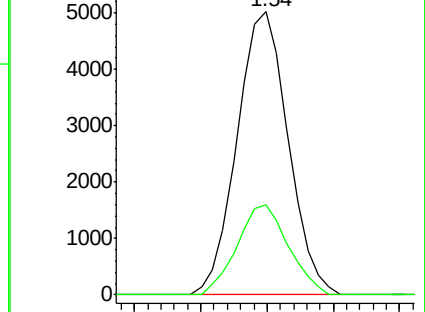
50 100

52 31.8 22.9 42.5

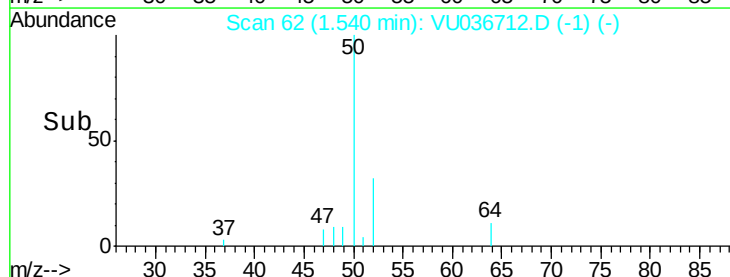


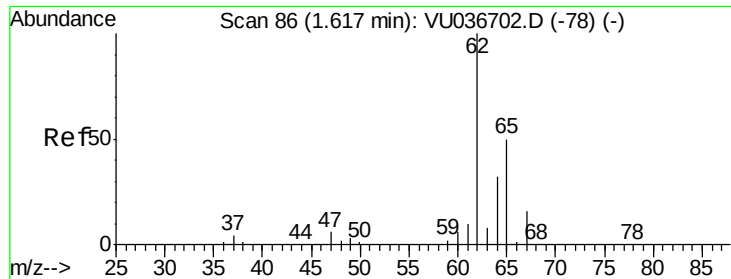
Abundance Ion 50.00 (49.70 to 50.70): VU036712.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU036712.D (-53) (-)



Time-->





#5

Vinyl chloride

Concen: 2.757 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 62 Resp: 6358

Ion Ratio Lower Upper

62 100

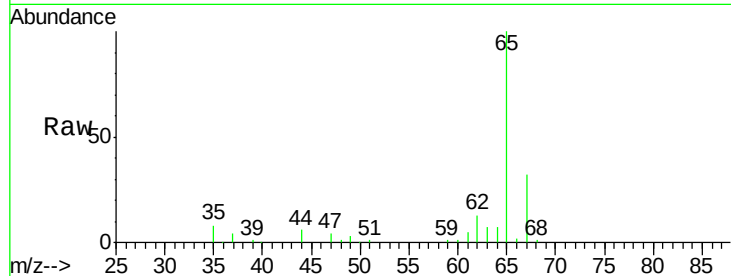
64 55.8 23.4 43.6#

Manual Integrations

APPROVED

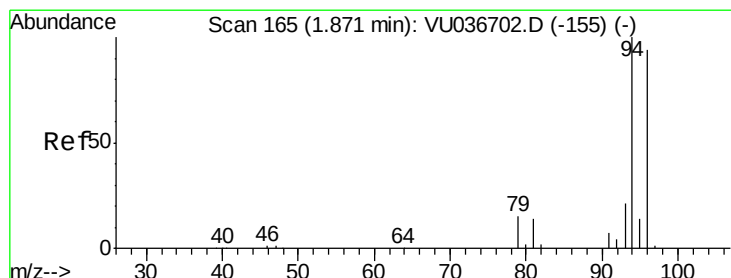
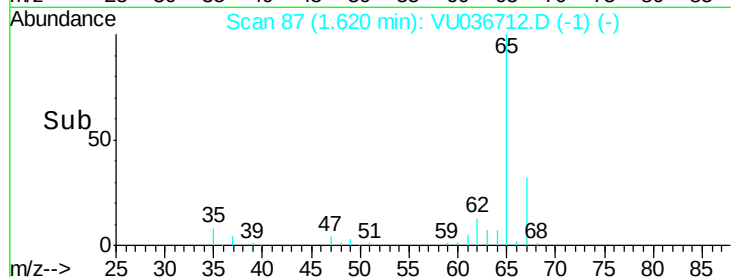
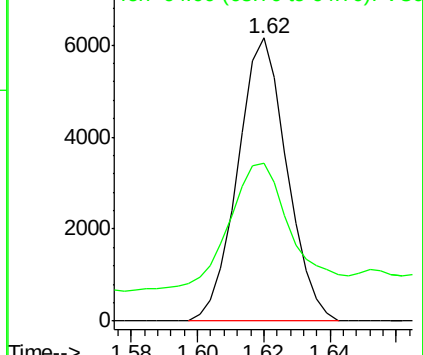
MMDadoda

2/12/2020 3:10:14 PM



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.304 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036712.D

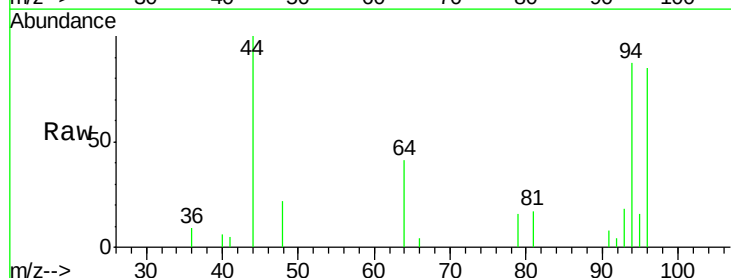
Acq: 10 Feb 2020 16:18

Tgt Ion: 94 Resp: 3332

Ion Ratio Lower Upper

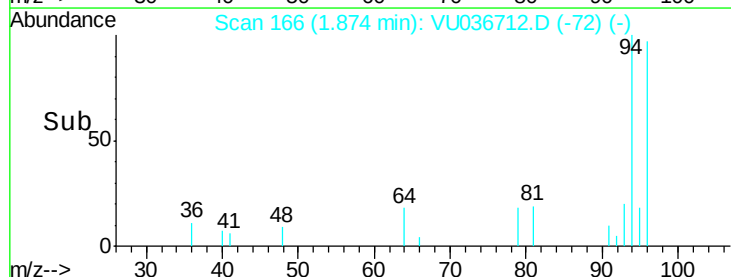
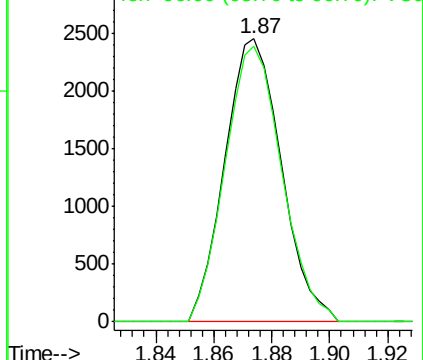
94 100

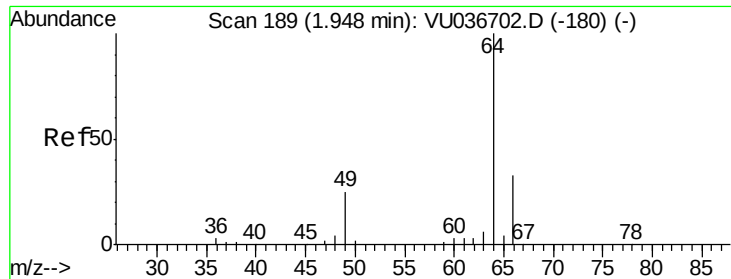
96 97.3 66.3 123.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 2.869 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.01 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 64 Resp: 4200

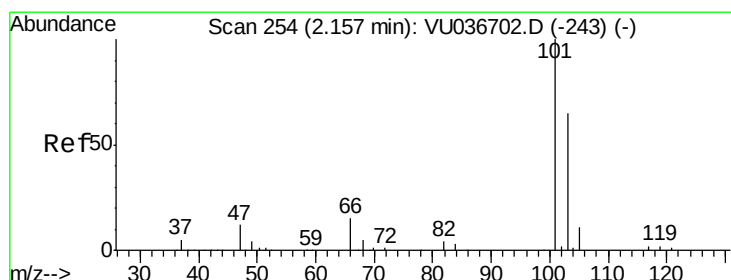
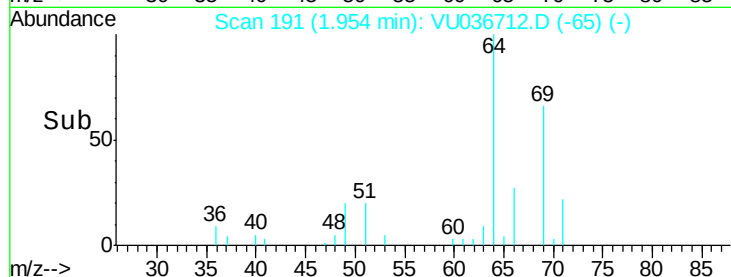
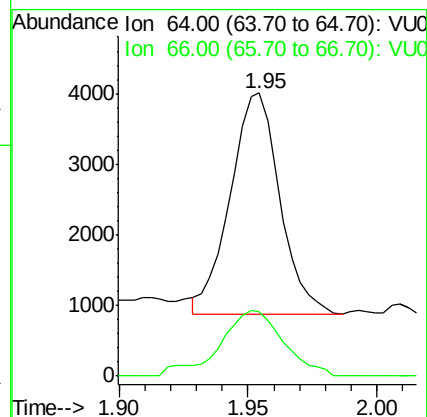
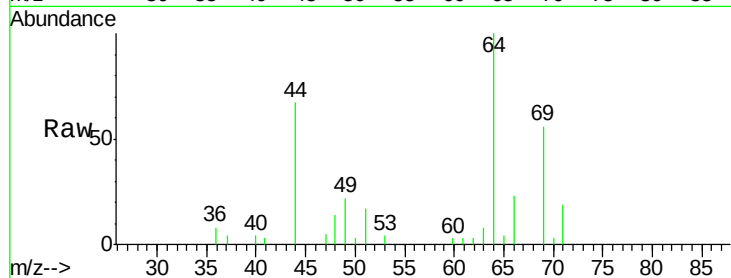
Ion Ratio Lower Upper

64 100

66 22.6 22.1 41.1

Manual Integrations
APPROVED

MMDadoda
2/12/2020 3:10:14 PM



#9

Trichlorofluoromethane

Concen: 2.529 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU036712.D

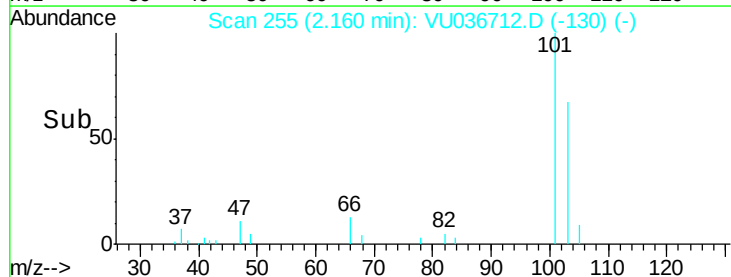
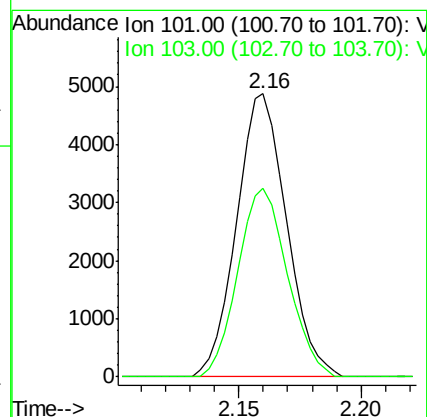
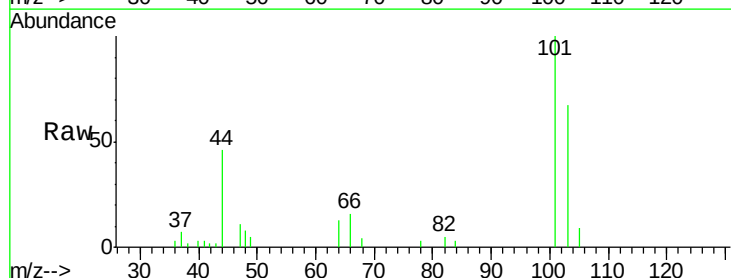
Acq: 10 Feb 2020 16:18

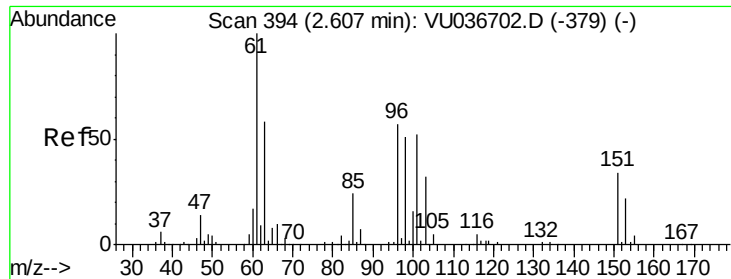
Tgt Ion: 101 Resp: 6930

Ion Ratio Lower Upper

101 100

103 66.2 51.6 77.4





#10

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

Concen: 2.871 ug/L

RT: 2.61 min Scan# 395

Delta R.T. 0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

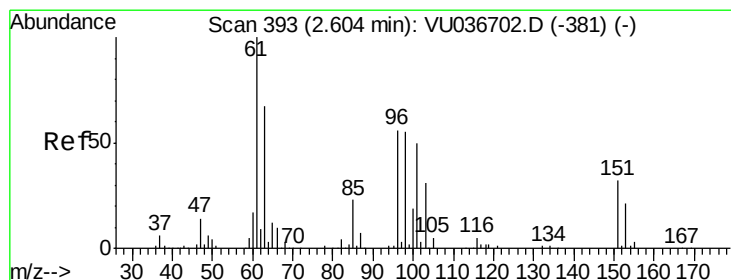
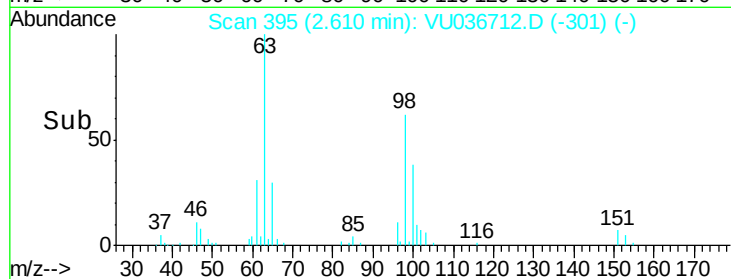
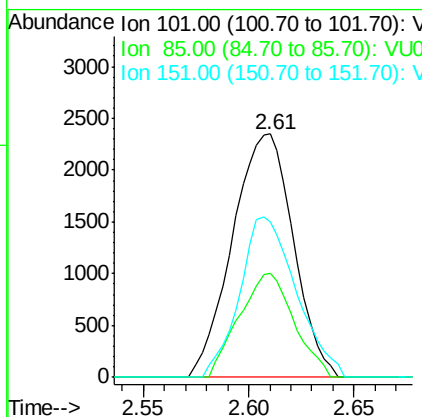
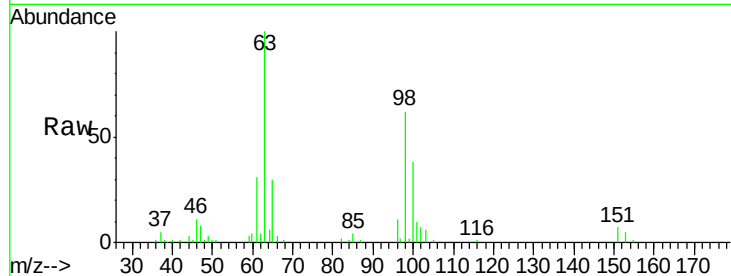
ClientSampleId :

MDL07

Tot Ion:	101	Resp:	4713
Ion Ratio	Lower	Upper	
101	100		
85	38.4	36.5	54.7
151	61.2	52.6	78.8

Manual Integrations
APPROVED

MMDadoda
2/12/2020 3:10:14 PM



#12

1,1-Dichloroethene

Concen: 3.023 ug/L

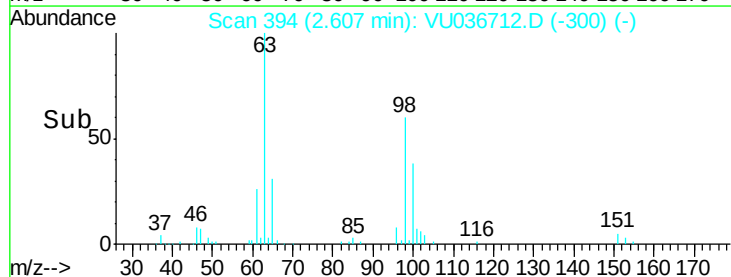
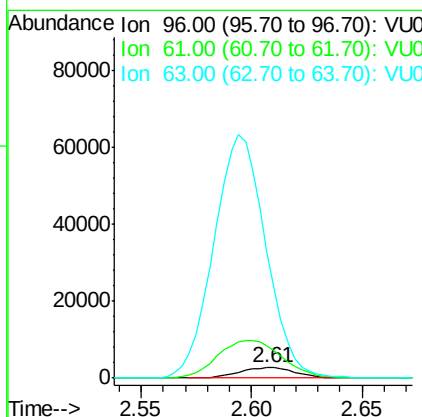
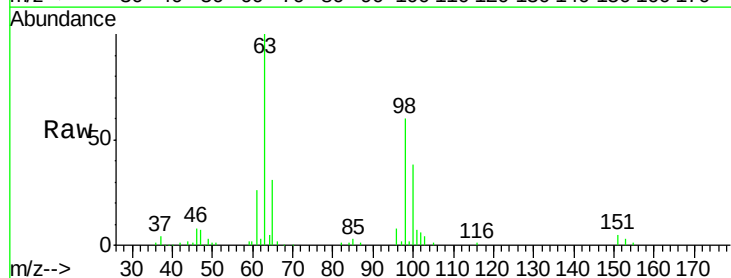
RT: 2.61 min Scan# 394

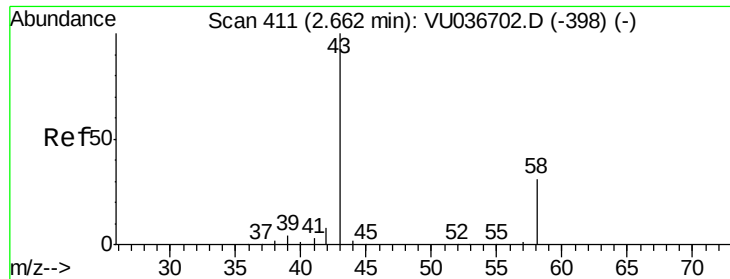
Delta R.T. 0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Tgt Ion:	96	Resp:	4832
Ion Ratio	Lower	Upper	
96	100		
61	309.1	124.4	231.0#
63	1206.6	83.4	155.0#





#13

Acetone

Concen: 6.644 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 43 Resp: 10506

Ion Ratio Lower Upper

43 100

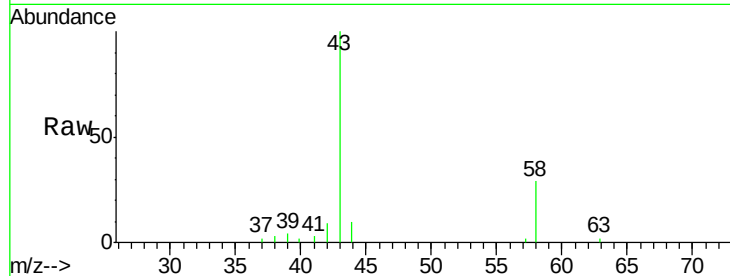
58 28.8 0.0 64.0

Manual Integrations

APPROVED

MMDadoda

2/12/2020 3:10:14 PM



Abundance Ion 43.00 (42.70 to 43.70): VU036712.D (-398) (-)

Ion 58.00 (57.70 to 58.70): VU036712.D (-398) (-)

2.66

6000

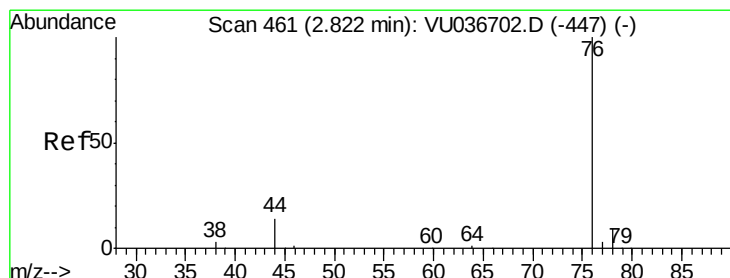
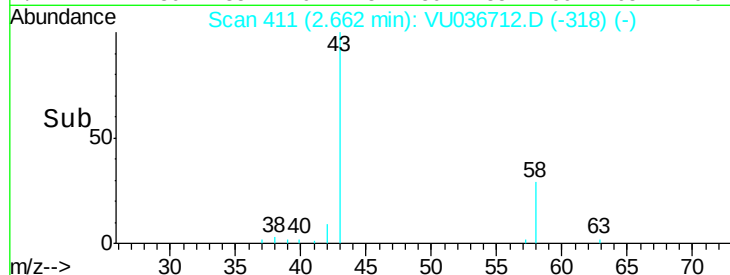
4000

2000

0

Time-->

2.60 2.65 2.70



#14

Carbon disulfide

Concen: 2.513 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU036712.D

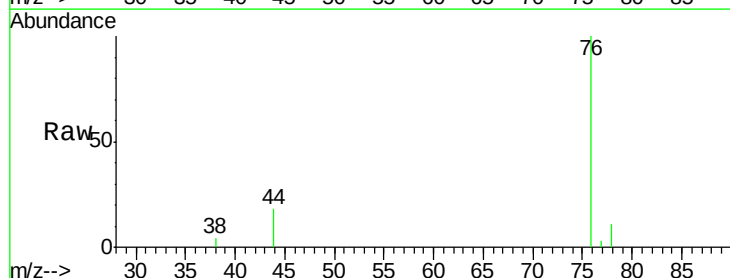
Acq: 10 Feb 2020 16:18

Tgt Ion: 76 Resp: 12003

Ion Ratio Lower Upper

76 100

78 10.5 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU036712.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU036712.D (-447) (-)

2.82

8000

6000

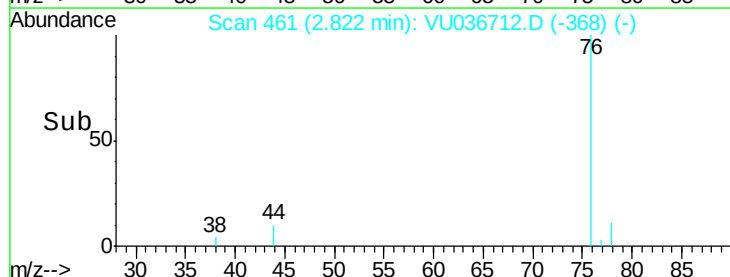
4000

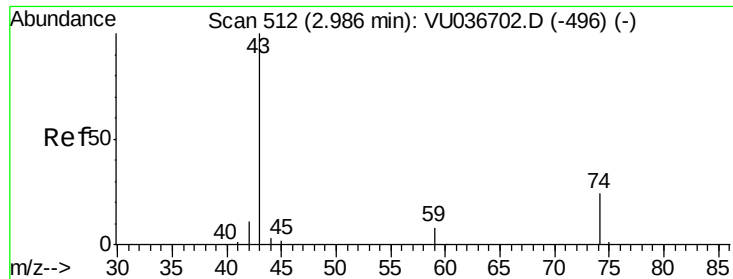
2000

0

Time-->

2.80 2.85





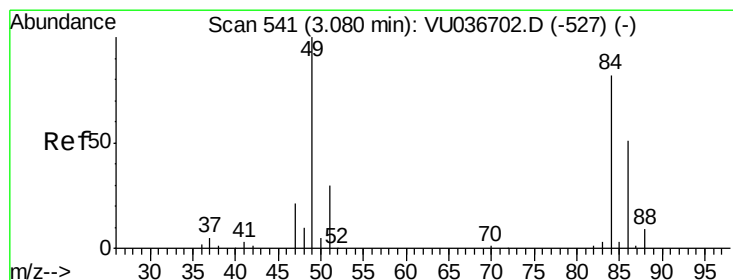
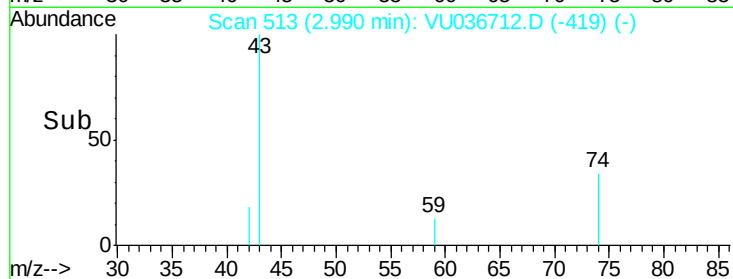
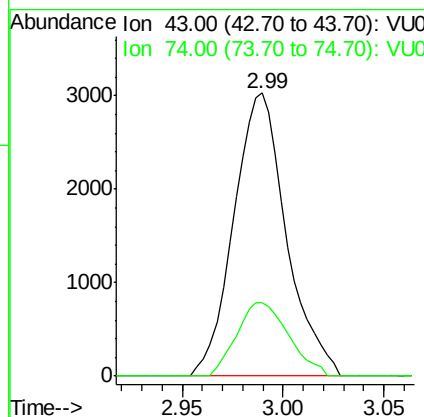
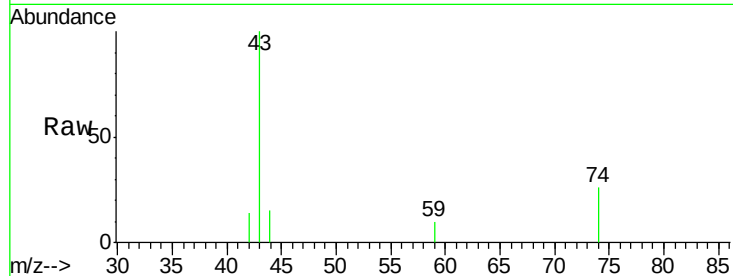
#15
Methvl Acetate
Concen: 2.415 ug/L
RT: 2.99 min Scan# 513
Delta R.T. 0.00 min
Lab File: VU036712.D
Acq: 10 Feb 2020 16:18

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion: 43 Resp: 5521
Ion Ratio Lower Upper
43 100
74 25.7 18.7 28.1

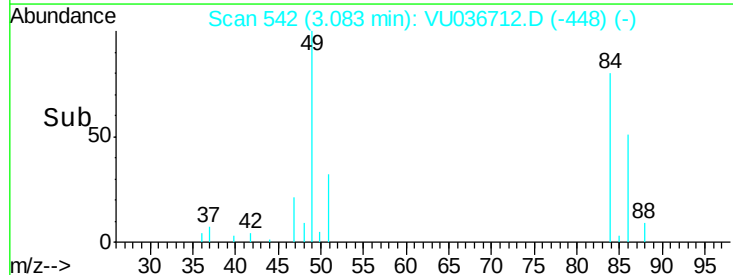
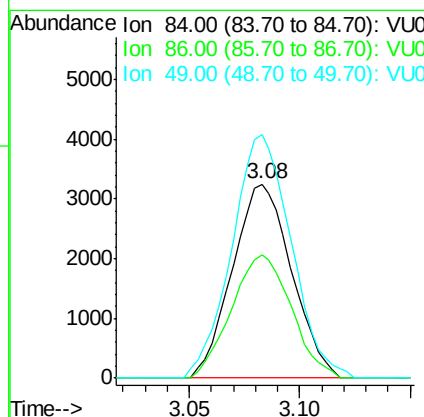
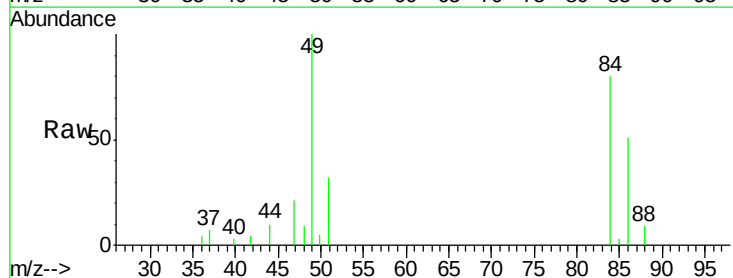
Manual Integrations
APPROVED

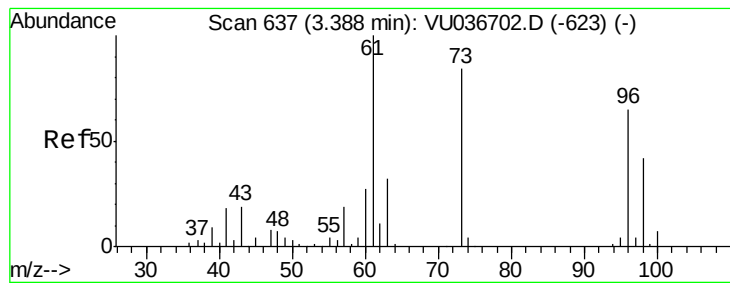
MMDadoda
2/12/2020 3:10:14 PM



#16
Methylene chloride
Concen: 3.060 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036712.D
Acq: 10 Feb 2020 16:18

Tgt Ion: 84 Resp: 6036
Ion Ratio Lower Upper
84 100
86 63.7 44.4 82.5
49 125.4 89.2 165.8





#17

trans-1,2-Dichloroethene

Concen: 2.698 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 96 Resp: 4588

Ion Ratio Lower Upper

96 100

61 139.6 103.4 192.0

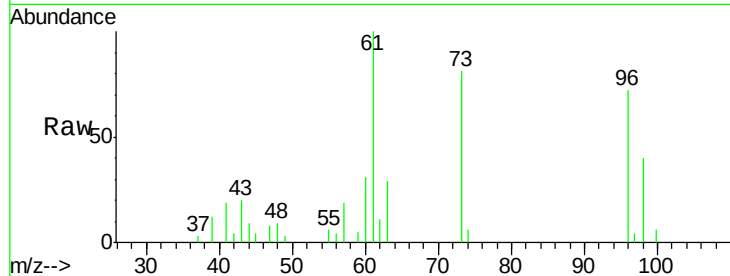
98 55.8 45.4 84.2

Manual Integrations

APPROVED

MMDadoda

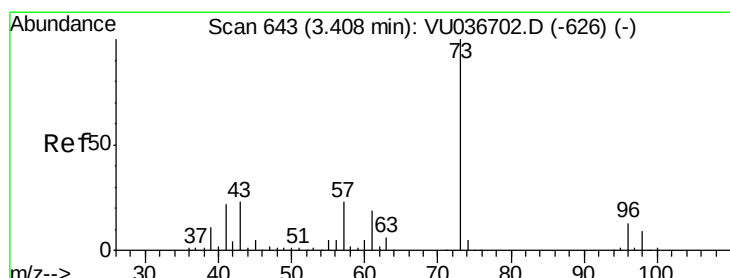
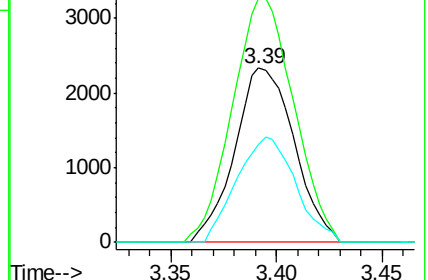
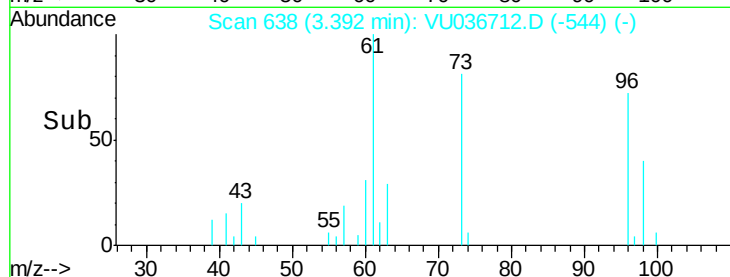
2/12/2020 3:10:14 PM



Abundance Ion 96.00 (95.70 to 96.70): VU036712.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU036712.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU036712.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 2.576 ug/L

RT: 3.41 min Scan# 645

Delta R.T. 0.01 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

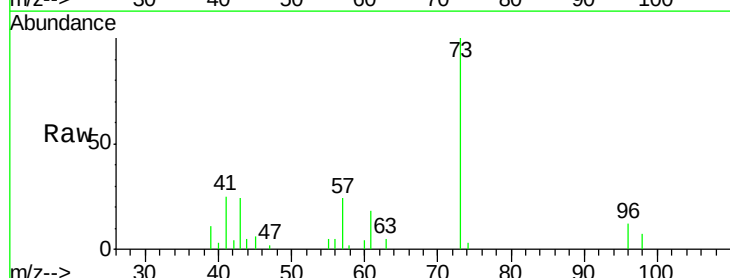
Tgt Ion: 73 Resp: 15203

Ion Ratio Lower Upper

73 100

43 24.9 18.6 28.0

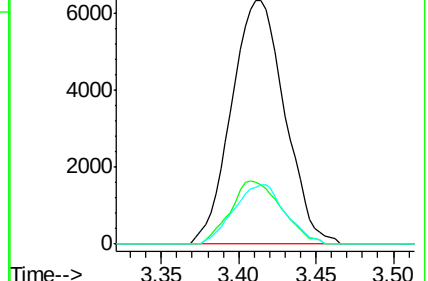
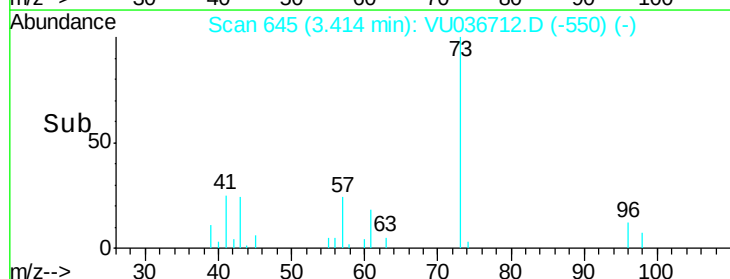
57 23.7 18.3 27.5

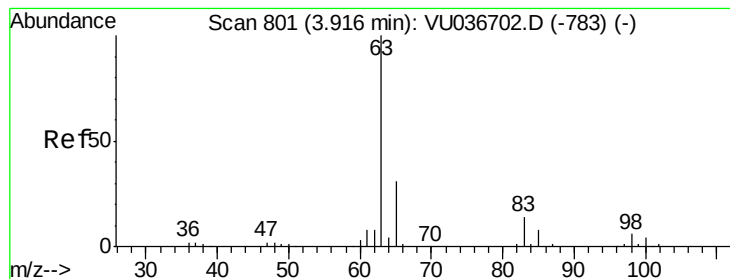


Abundance Ion 73.00 (72.70 to 73.70): VU036712.D (-550) (-)

Ion 43.00 (42.70 to 43.70): VU036712.D (-550) (-)

Ion 57.00 (56.70 to 57.70): VU036712.D (-550) (-)





#19

1,1-Dichloroethane

Concen: 2.634 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

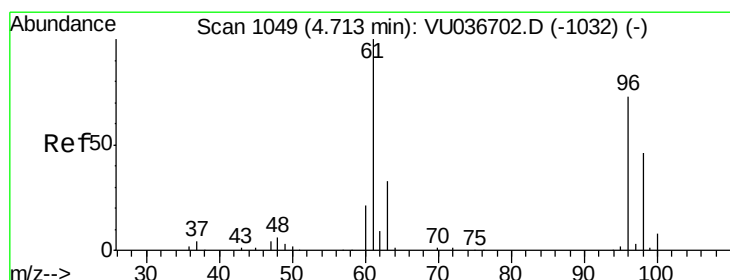
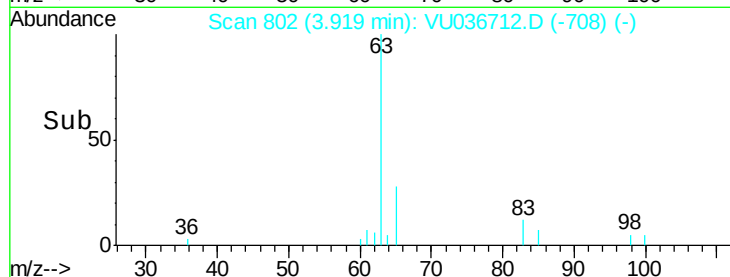
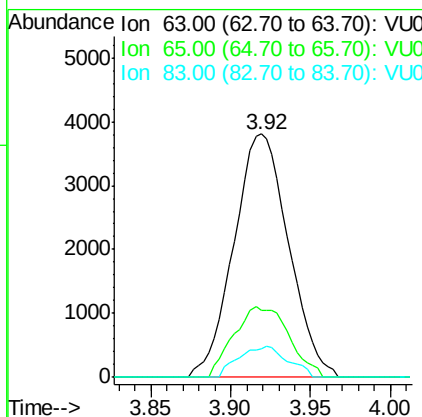
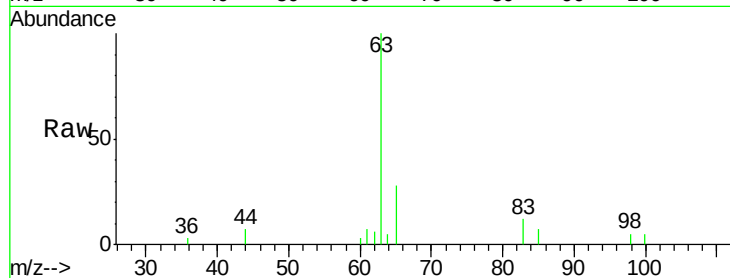
ClientSampleId :

MDL07

Tot Ion:	63	Resp:	8923
Ion	Ratio	Lower	Upper
63	100		
65	27.6	22.0	40.8
83	12.0	10.1	18.7

Manual Integrations
APPROVED

MMDadoda
2/12/2020 3:10:14 PM



#20

cis-1,2-Dichloroethene

Concen: 2.699 ug/L

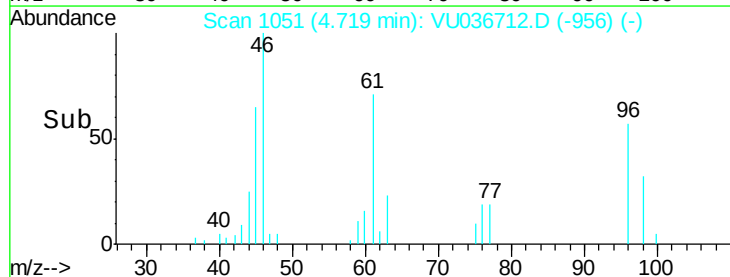
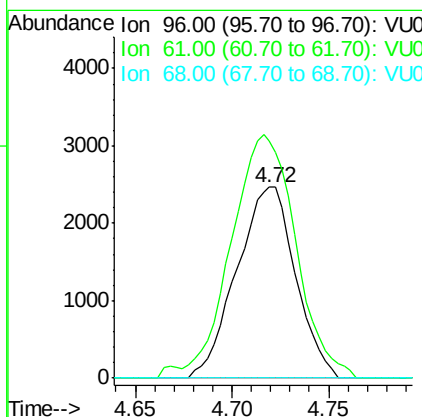
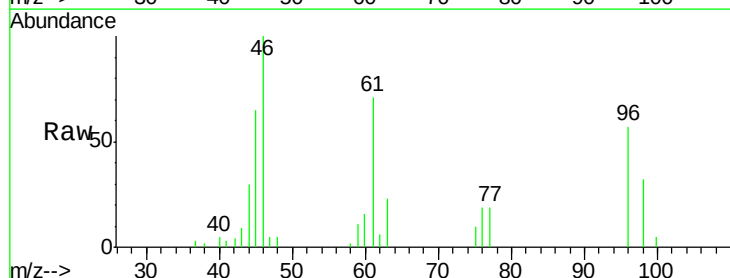
RT: 4.72 min Scan# 1051

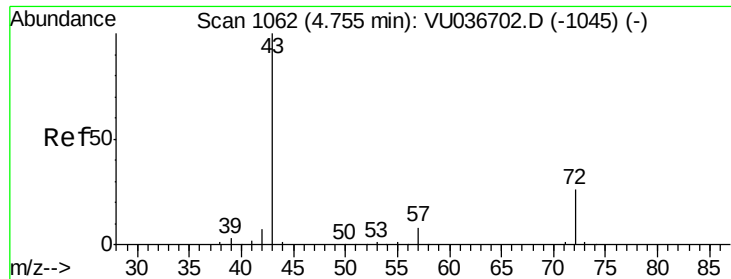
Delta R.T. 0.01 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Tgt Ion:	96	Resp:	5230
Ion	Ratio	Lower	Upper
96	100		
61	124.7	93.3	173.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.692 ug/L

RT: 4.76 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 43 Resp: 10683

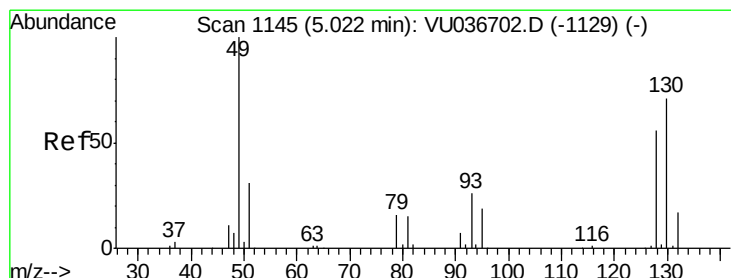
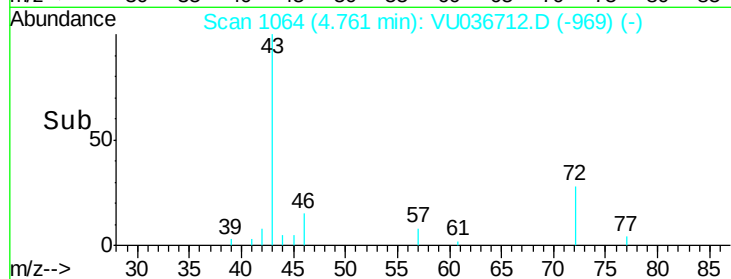
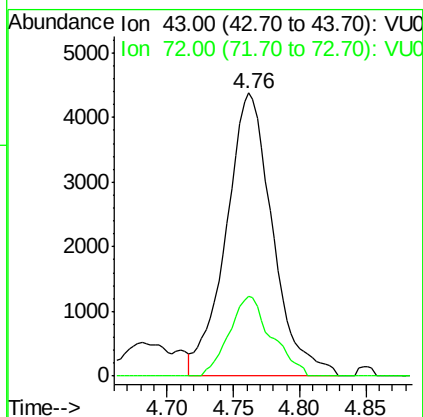
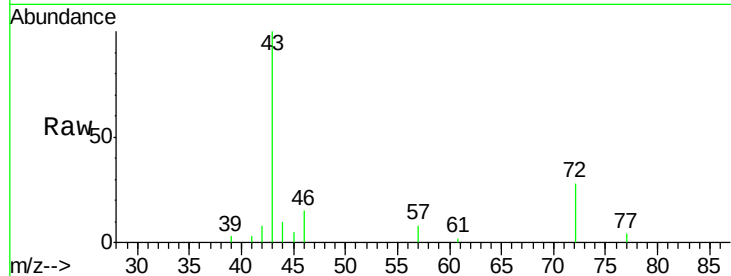
Ion Ratio Lower Upper

43 100

72 25.6 13.6 40.7

Manual Integrations
APPROVED

MMDadoda
2/12/2020 3:10:14 PM



#23

Bromochloromethane

Concen: 2.578 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Tgt Ion: 128 Resp: 2341

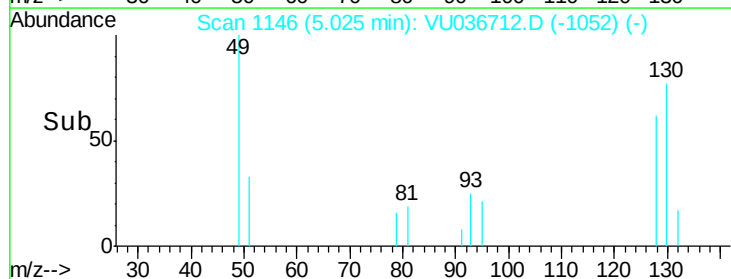
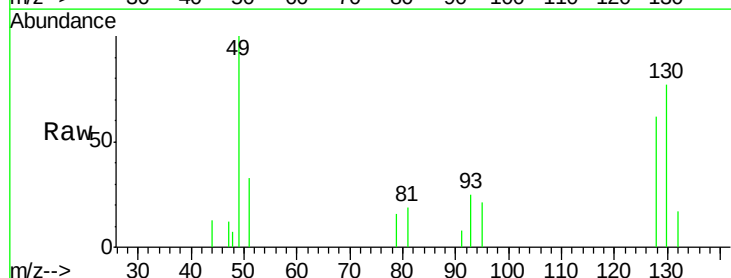
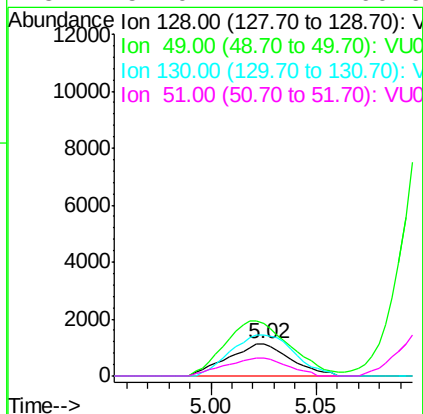
Ion Ratio Lower Upper

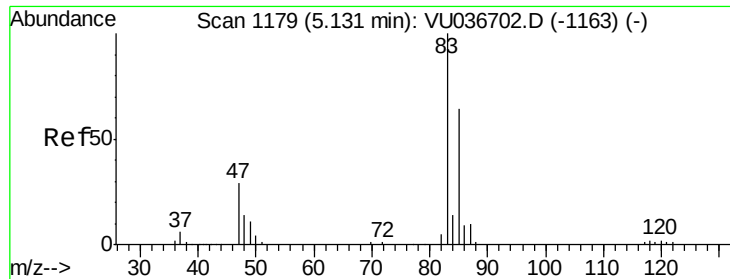
128 100

49 162.3 127.3 236.5

130 124.4 88.5 164.3

51 54.0 44.4 66.6





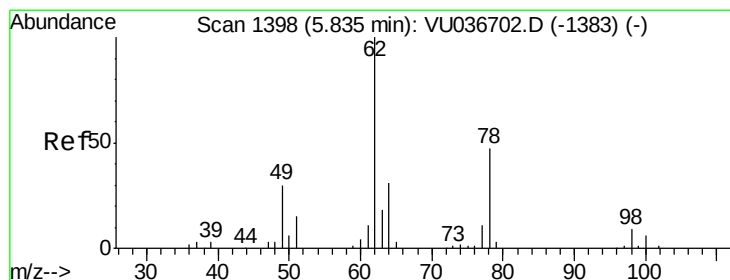
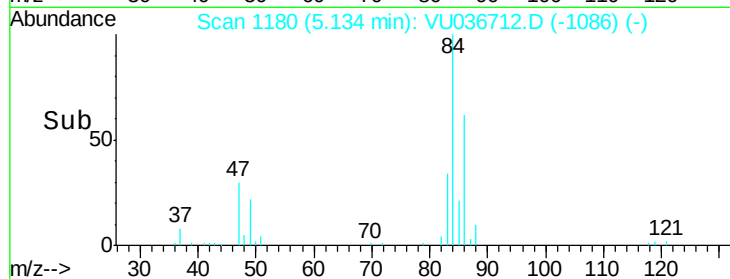
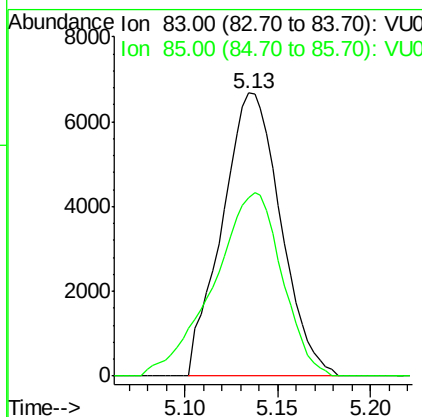
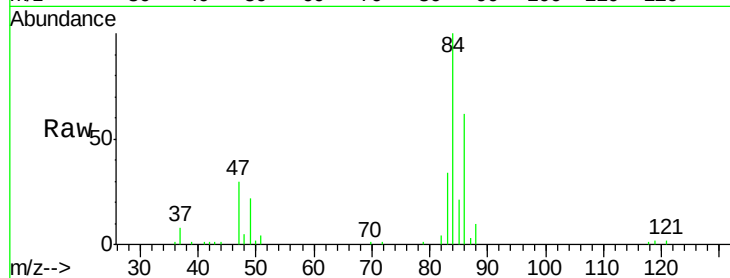
#25
Chloroform
Concen: 4.446 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU036712.D
Acq: 10 Feb 2020 16:18

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	83	Resp	14650
Ion Ratio	100	Lower	Upper
85	62.9	44.6	82.8

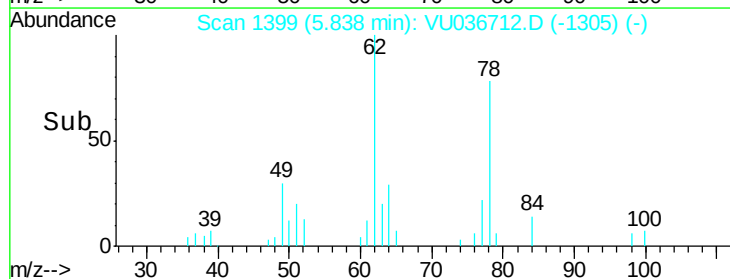
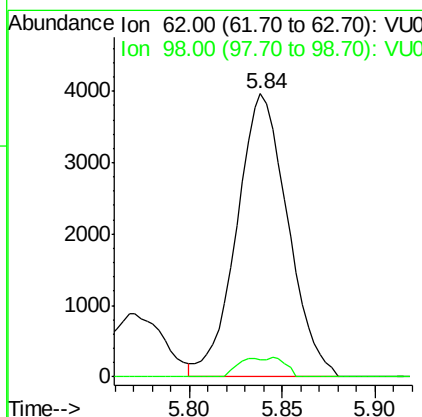
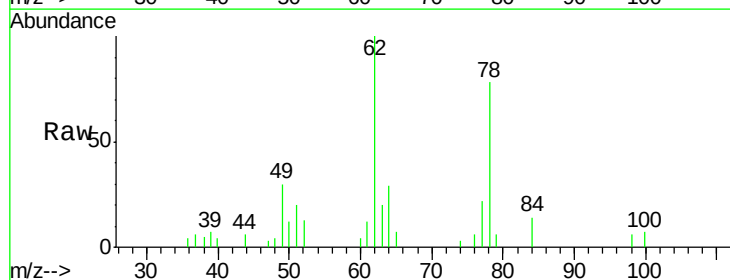
Manual Integrations
APPROVED

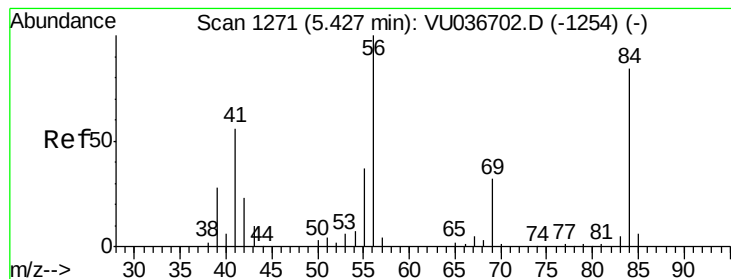
MMDadoda
2/12/2020 3:10:14 PM



#27
1,2-Dichloroethane
Concen: 2.736 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036712.D
Acq: 10 Feb 2020 16:18

Tgt Ion	62	Resp	7582
Ion Ratio	100	Lower	Upper
98	6.2	7.0	10.4#





#29

Cyclohexane

Concen: 2.414 ug/L

RT: 5.43 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

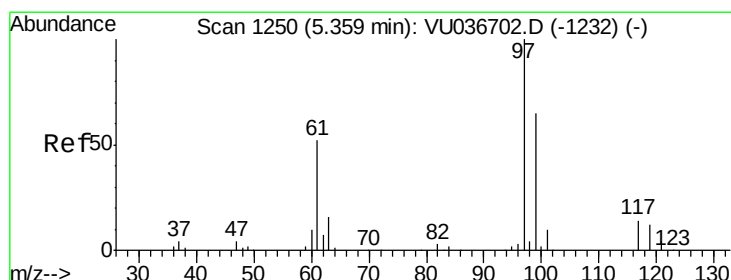
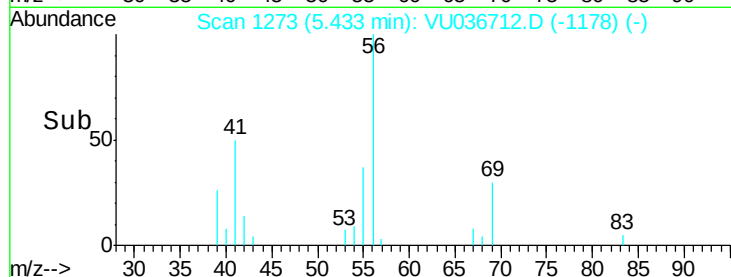
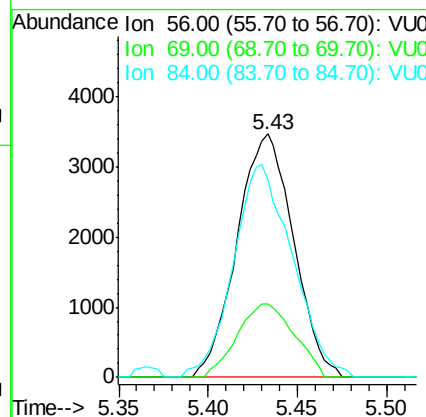
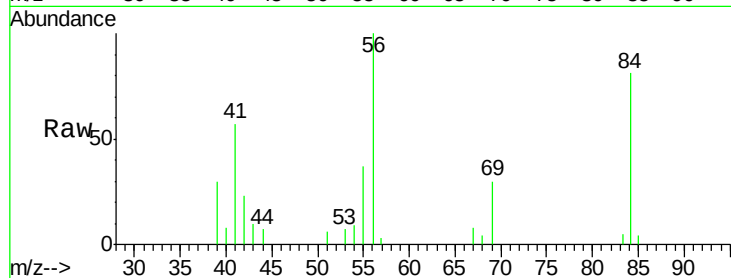
ClientSampleId :

MDL07

Tot Ion:	56	Resp:	7669
Ion	Ratio	Lower	Upper
56	100		
69	30.4	25.0	37.4
84	91.4	68.2	102.2

Manual Integrations
APPROVED

MMDadoda
2/12/2020 3:10:14 PM



#30

1,1,1-Trichloroethane

Concen: 2.596 ug/L

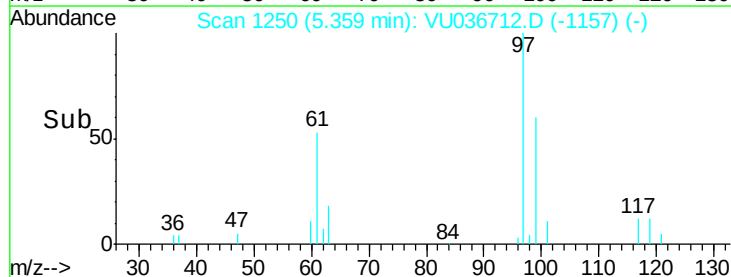
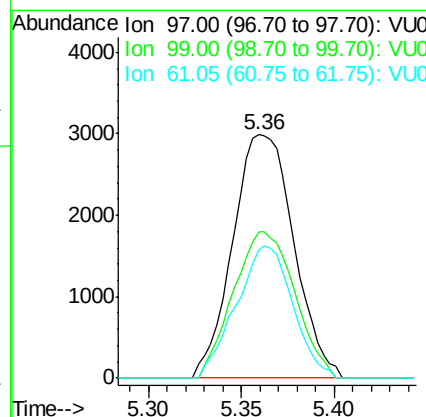
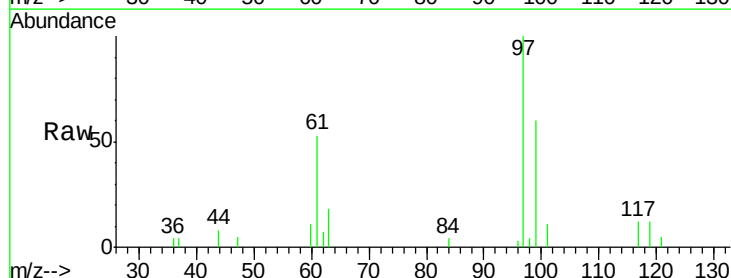
RT: 5.36 min Scan# 1250

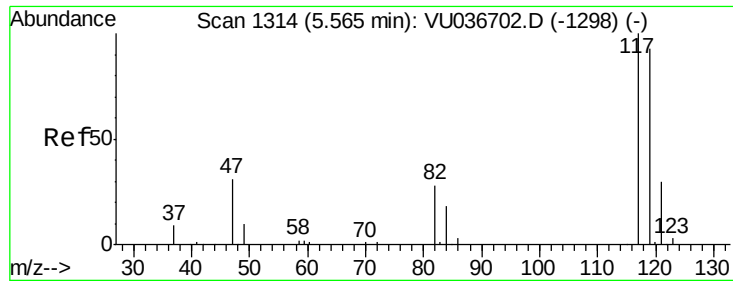
Delta R.T. -0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Tgt Ion:	97	Resp:	6820
Ion	Ratio	Lower	Upper
97	100		
99	60.5	50.9	76.3
61	50.2	40.2	60.2





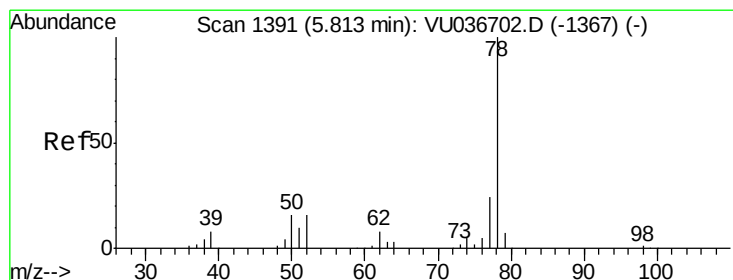
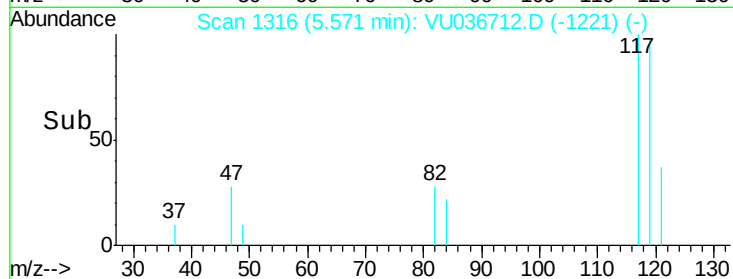
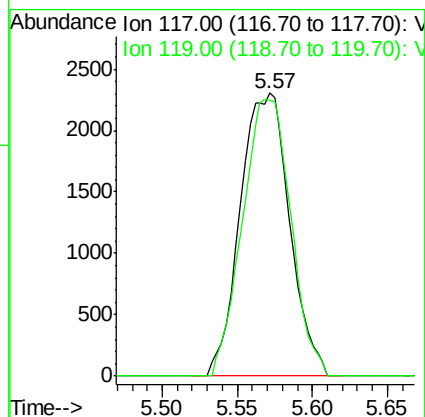
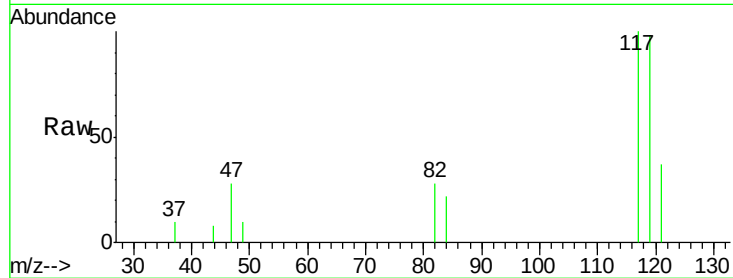
#31
Carbon tetrachloride
Concen: 2.475 ug/L m
RT: 5.57 min Scan# 1316
Delta R.T. 0.01 min
Lab File: VU036712.D
Acq: 10 Feb 2020 16:18

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion:117 Resp: 5264
Ion Ratio Lower Upper
117 100
119 56.7 76.2 114.4#

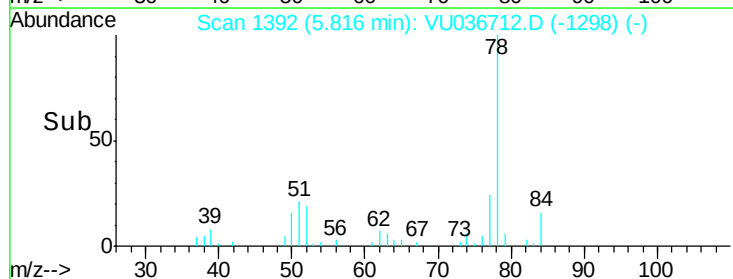
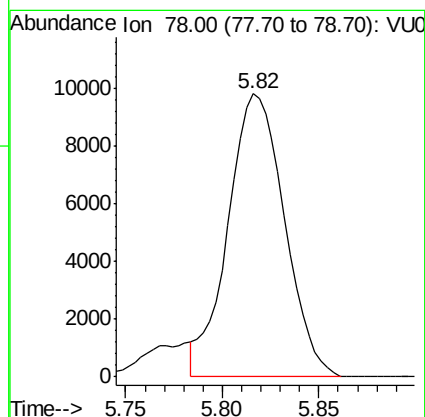
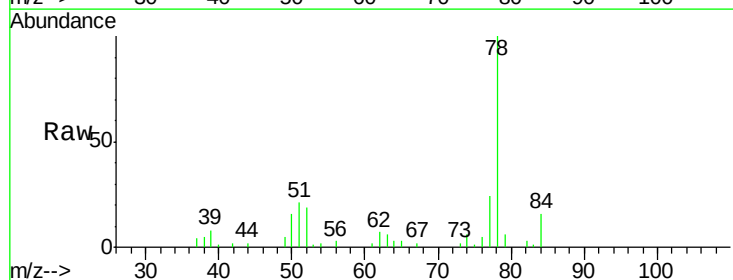
Manual Integrations
APPROVED

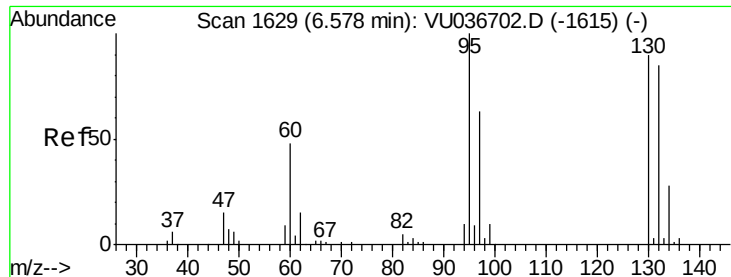
MMDadoda
2/12/2020 3:10:14 PM



#33
Benzene
Concen: 2.658 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VU036712.D
Acq: 10 Feb 2020 16:18

Tgt Ion: 78 Resp: 19878





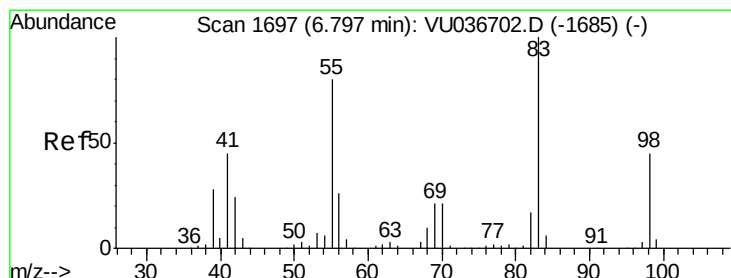
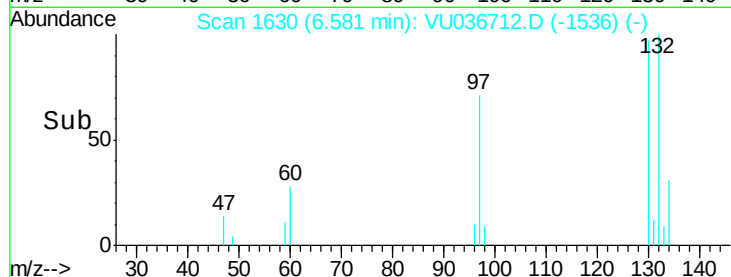
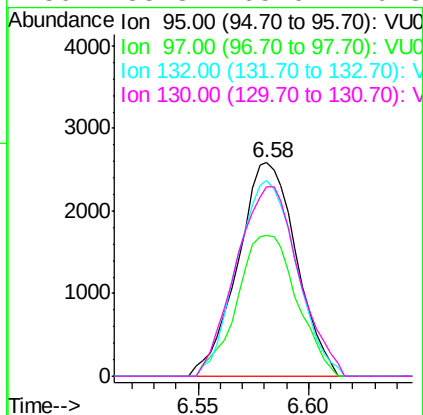
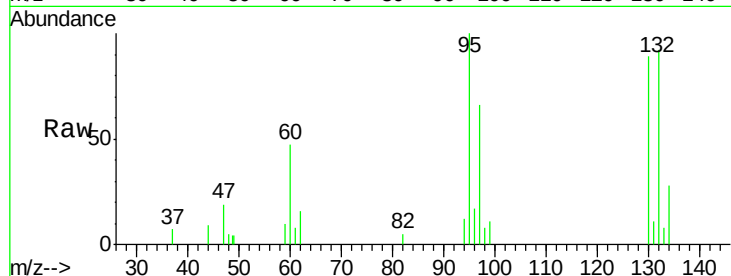
#34
 Trichloroethene
 Concen: 2.575 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion:	95	Resp:	4762
Ion	Ratio	Lower	Upper
95	100		
97	65.7	44.5	82.7
132	91.9	59.6	110.8
130	88.8	65.0	120.8

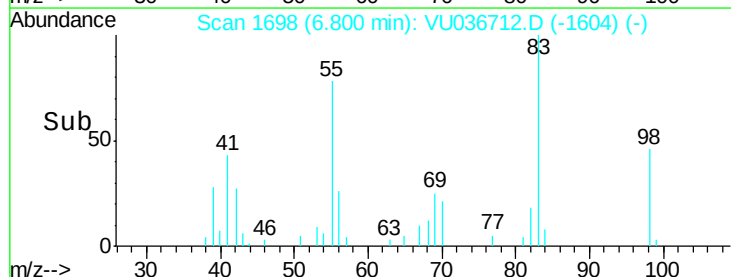
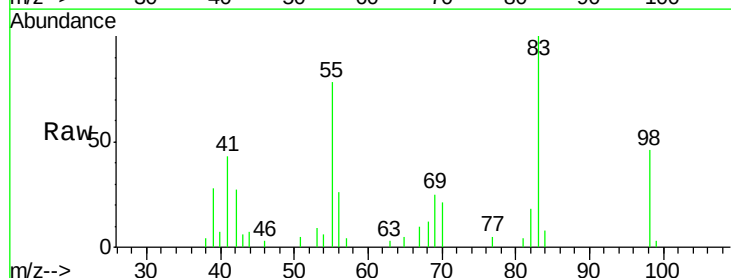
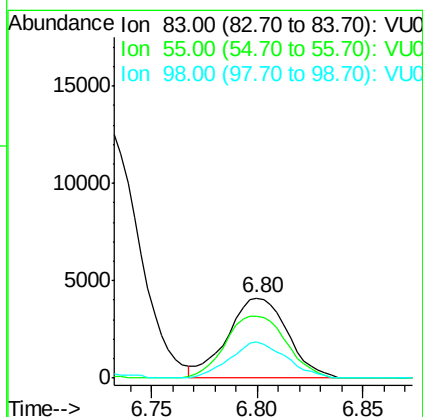
Manual Integrations
 APPROVED

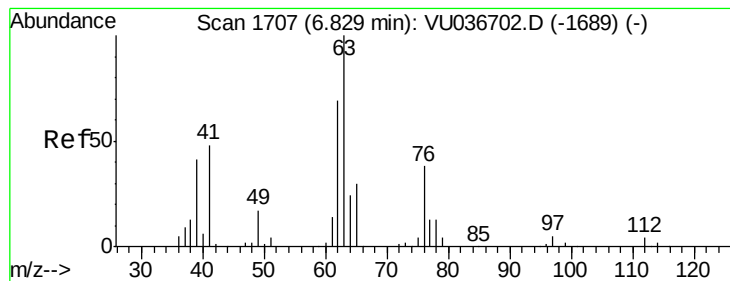
MMDadoda
 2/12/2020 3:10:14 PM



#35
 Methylcyclohexane
 Concen: 2.489 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Tgt Ion:	83	Resp:	8107
Ion	Ratio	Lower	Upper
83	100		
55	78.8	61.2	91.8
98	42.5	35.4	53.0





#37

1,2-Dichloropropane

Concen: 2.622 ug/L

RT: 6.83 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 63 Resp: 5288

Ion Ratio Lower Upper

63 100

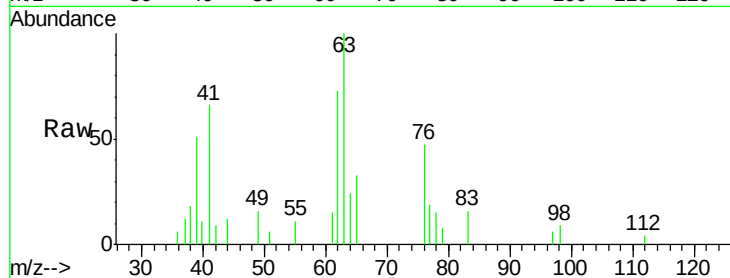
112 1.2 3.1 4.7#

Manual Integrations

APPROVED

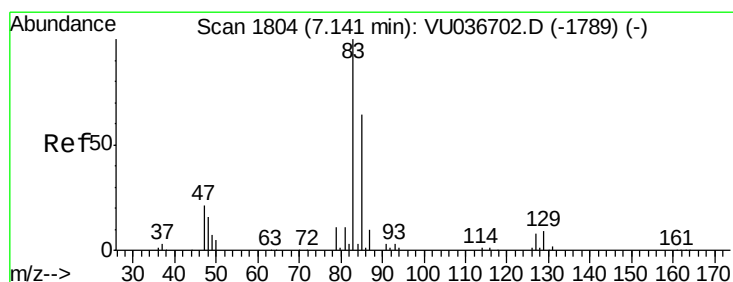
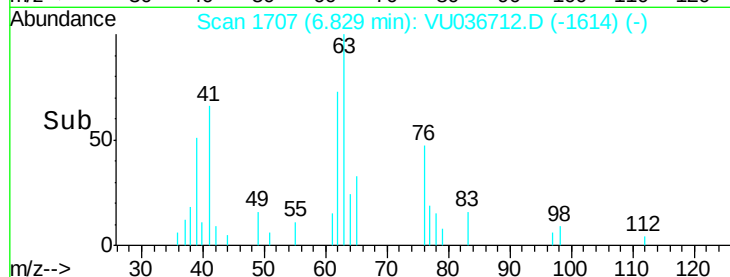
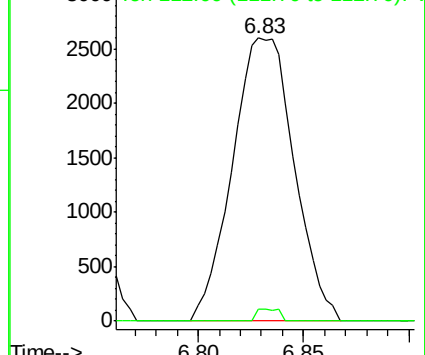
MMDadoda

2/12/2020 3:10:14 PM



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 2.394 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

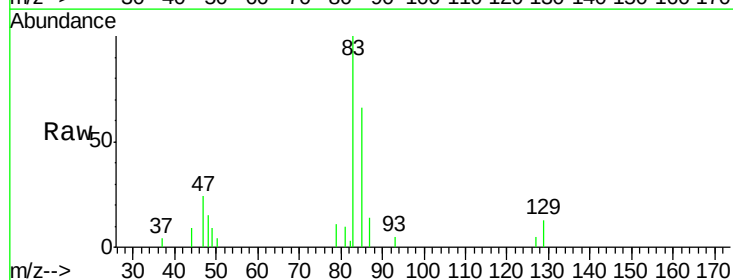
Tgt Ion: 83 Resp: 5867

Ion Ratio Lower Upper

83 100

85 65.6 43.9 81.5

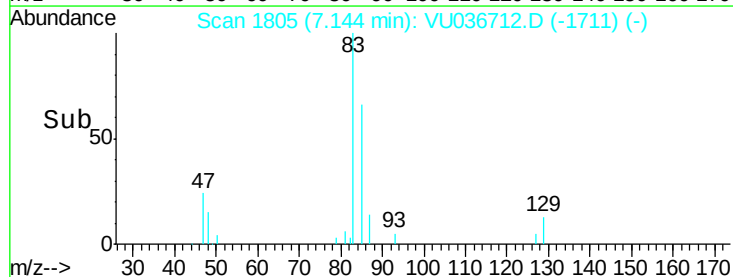
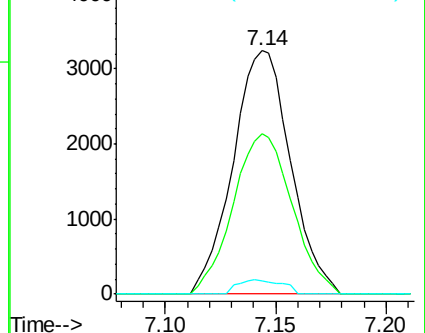
127 5.4 6.0 9.0#

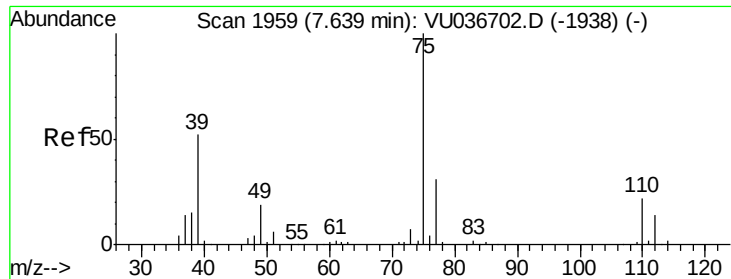


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V





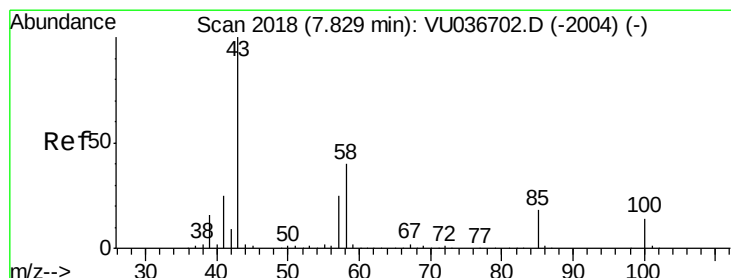
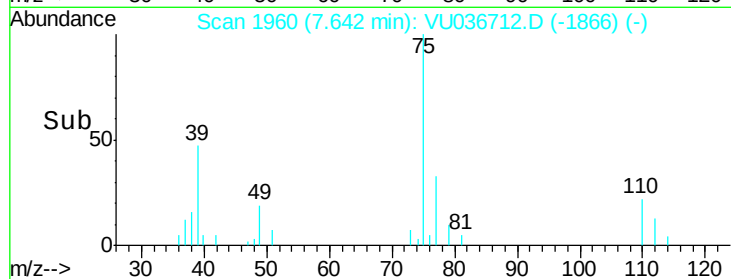
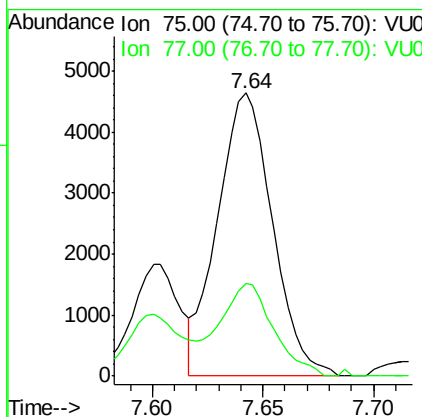
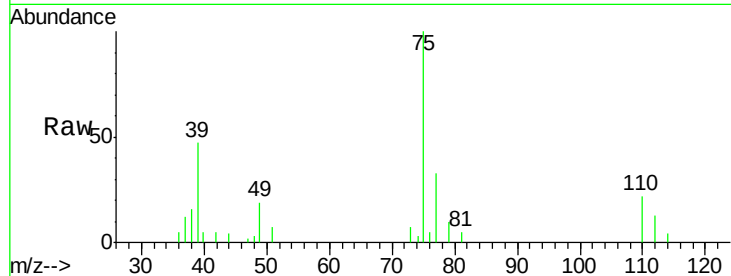
#39
 cis-1,3-Dichloropropene
 Concen: 2.489 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Instrument :
 MSVOA_U
 ClientSampled :
 MDL07

Tot Ion: 75 Resp: 8021
 Ion Ratio Lower Upper
 75 100
 77 32.9 22.3 41.5

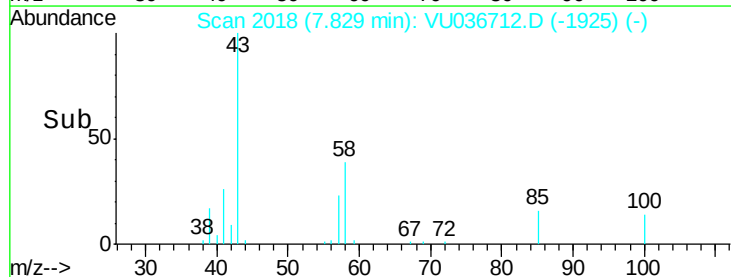
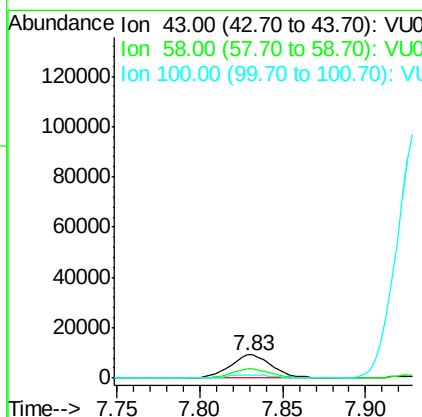
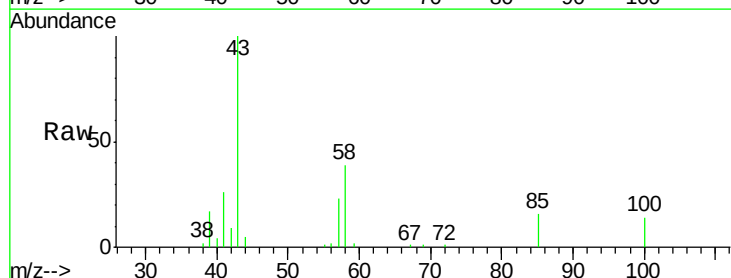
Manual Integrations
 APPROVED

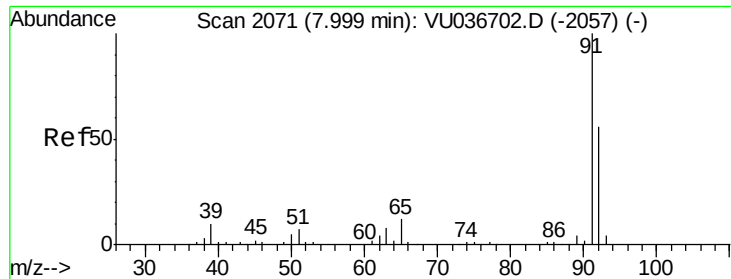
MMDadoda
 2/12/2020 3:10:14 PM



#40
 4-Methyl-2-pentanone
 Concen: 5.095 ug/L
 RT: 7.83 min Scan# 2018
 Delta R.T. -0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Tgt Ion: 43 Resp: 16236
 Ion Ratio Lower Upper
 43 100
 58 38.3 31.0 46.6
 100 14.8 11.4 17.2





#42

Toluene

Concen: 2.775 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 91 Resp: 22425

Ion Ratio Lower Upper

91 100

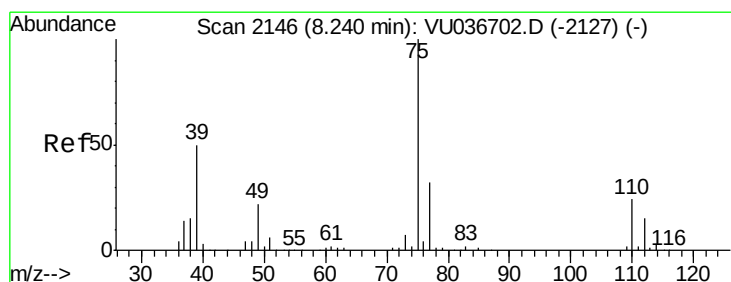
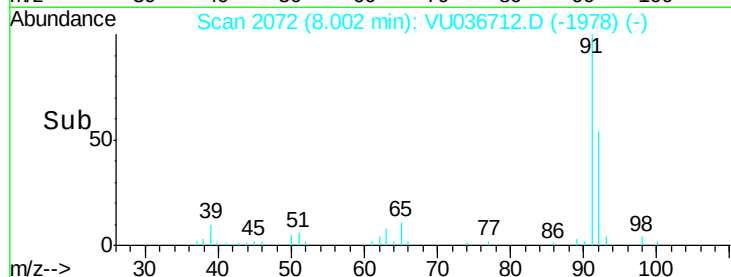
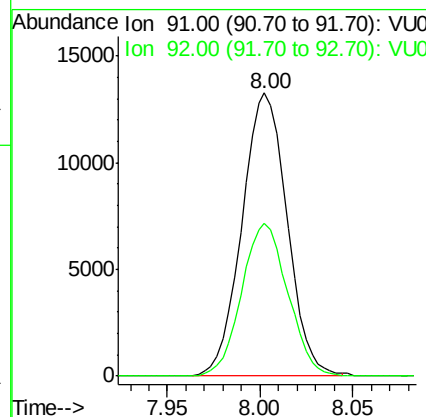
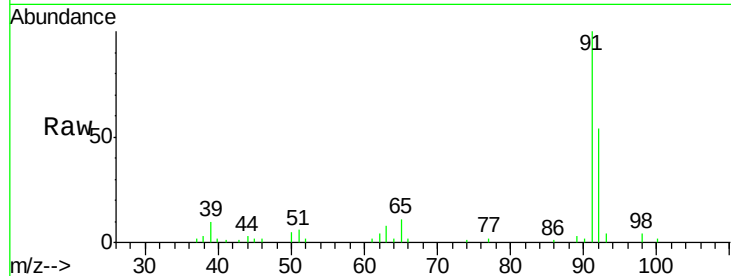
92 53.9 39.5 73.3

Manual Integrations

APPROVED

MMDadoda

2/12/2020 3:10:14 PM



#44

trans-1,3-Dichloropropene

Concen: 2.652 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036712.D

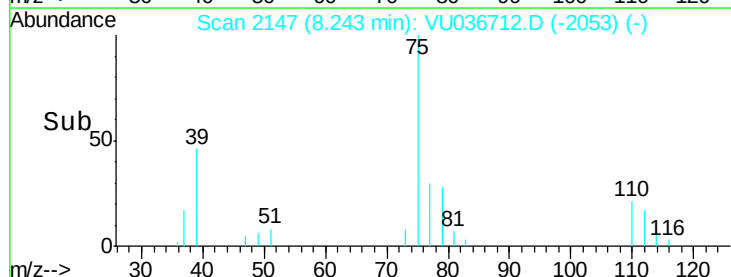
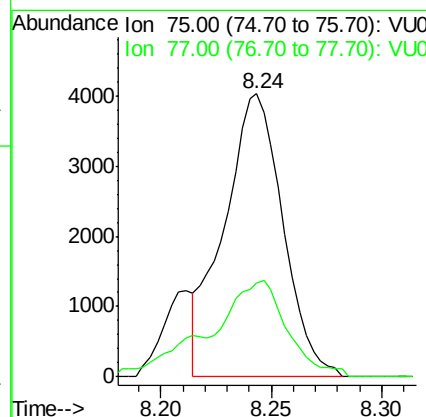
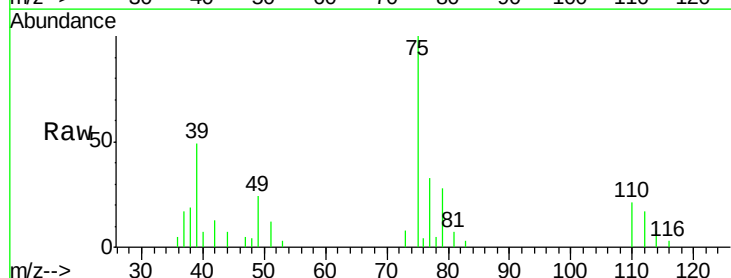
Acq: 10 Feb 2020 16:18

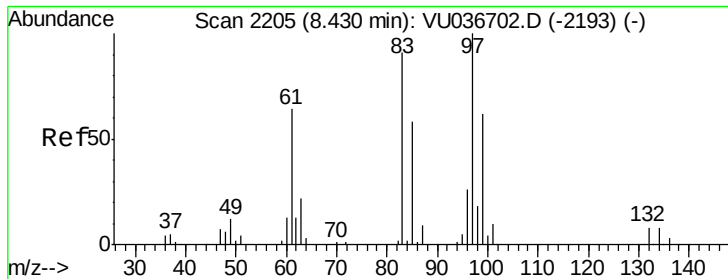
Tgt Ion: 75 Resp: 7466

Ion Ratio Lower Upper

75 100

77 33.1 22.6 42.0





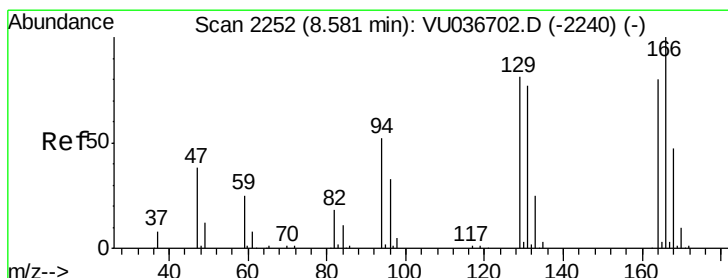
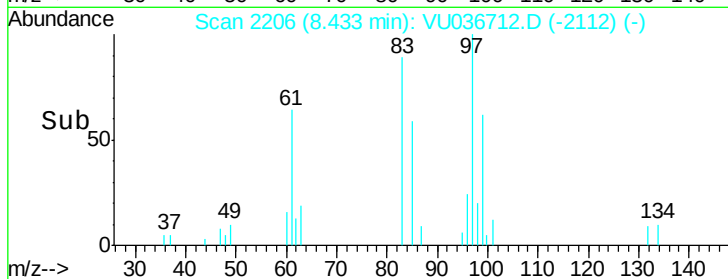
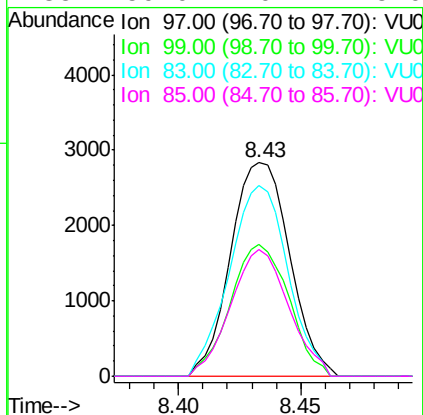
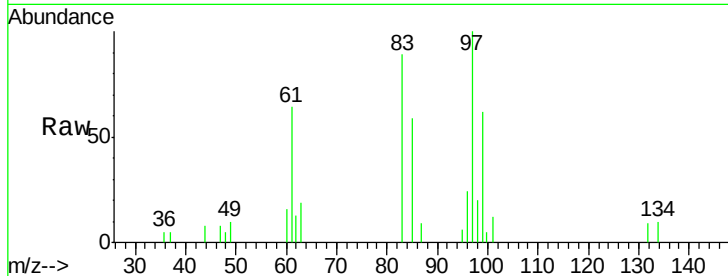
#45
 1,1,2-Trichloroethane
 Concen: 2.594 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion:	97	Resp:	4773
Ion	Ratio	Lower	Upper
97	100		
99	61.9	42.6	79.0
83	89.2	61.1	113.5
85	59.0	40.4	75.0

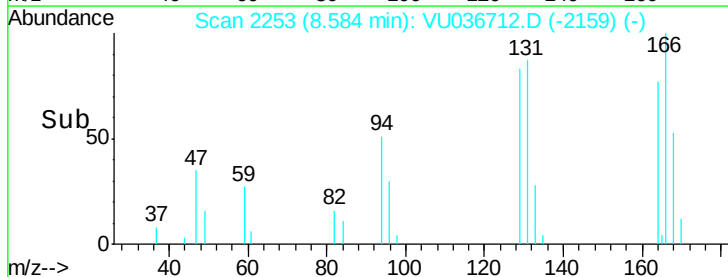
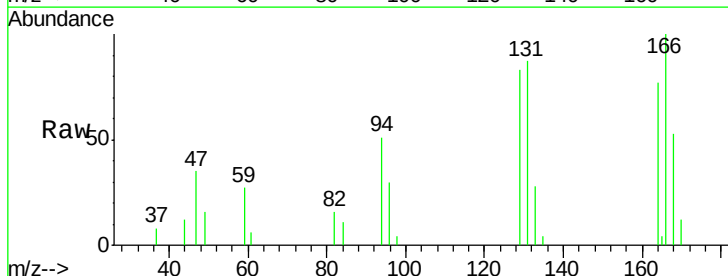
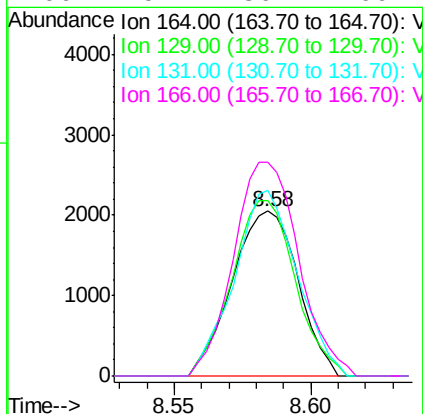
Manual Integrations
 APPROVED

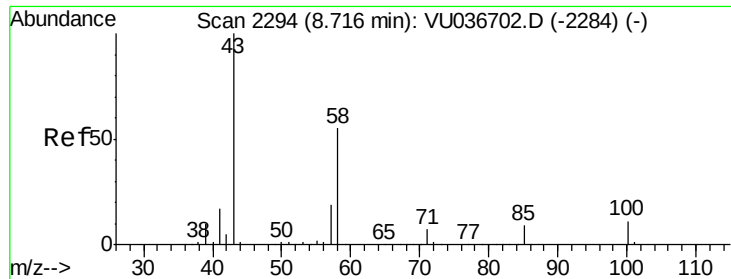
MMDadoda
 2/12/2020 3:10:14 PM



#46
 Tetrachloroethene
 Concen: 2.654 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Tgt Ion:	164	Resp:	3444
Ion	Ratio	Lower	Upper
164	100		
129	106.7	71.0	131.9
131	112.4	66.6	123.6
166	129.2	86.4	160.4





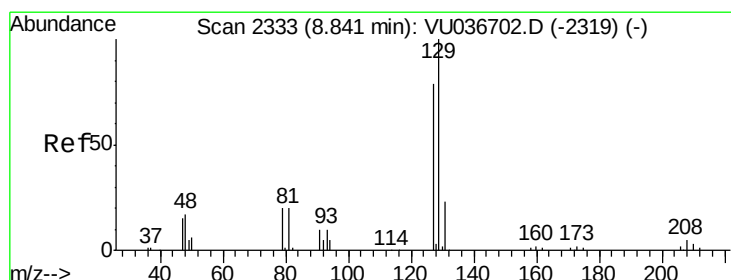
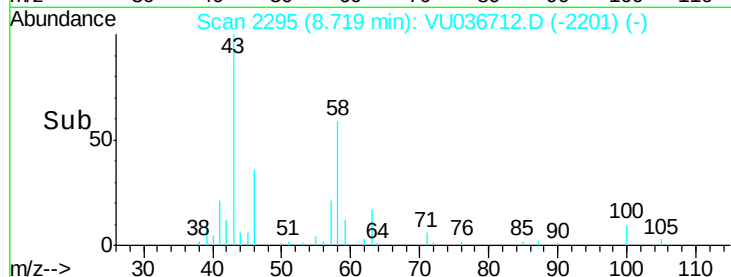
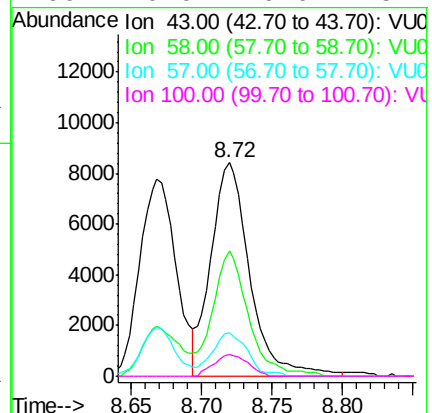
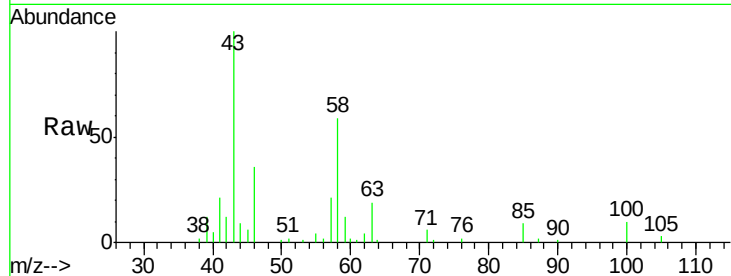
#48
2-Hexanone
Concen: 6.202 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036712.D
Acq: 10 Feb 2020 16:18

Instrument :
MSVOA_U
ClientSampled :
MDL07

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.0	43.6	65.4
57	15.8	15.5	23.3
100	9.0	9.0	13.4

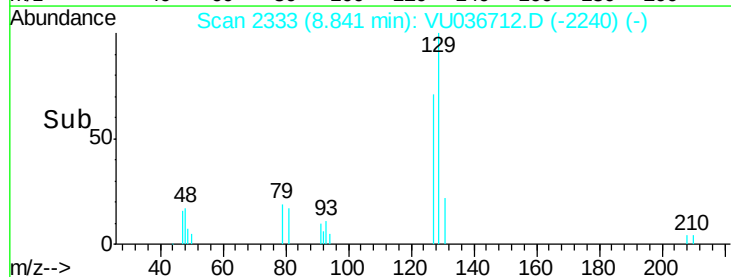
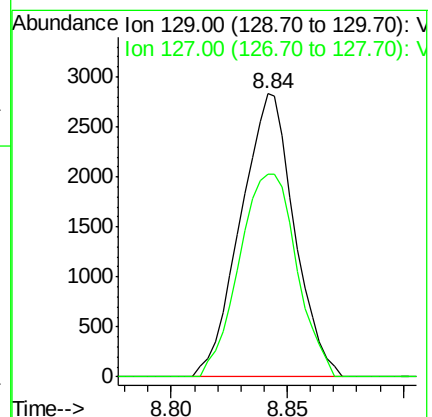
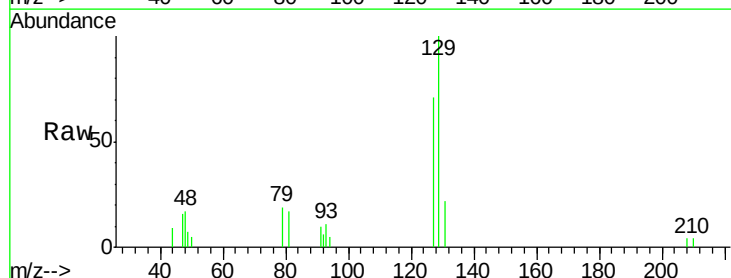
Manual Integrations
APPROVED

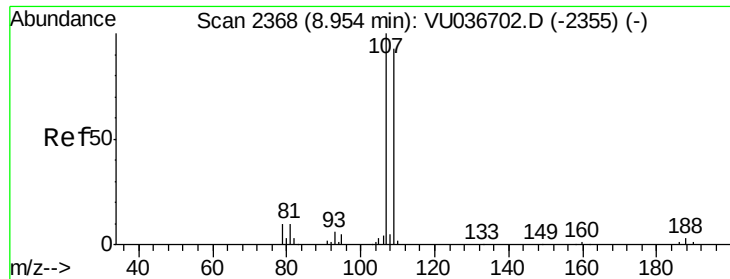
MMDadoda
2/12/2020 3:10:14 PM



#49
Dibromochloromethane
Concen: 2.526 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU036712.D
Acq: 10 Feb 2020 16:18

Tgt Ion	Ratio	Lower	Upper
129	100		
127	71.5	53.6	99.6





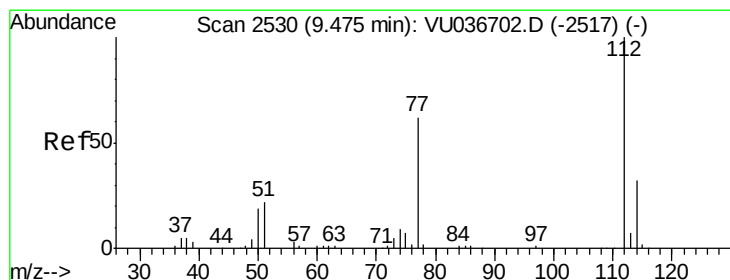
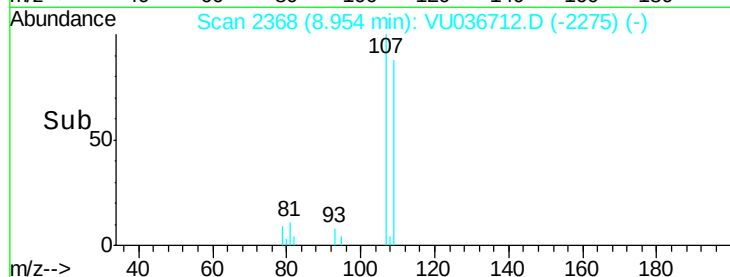
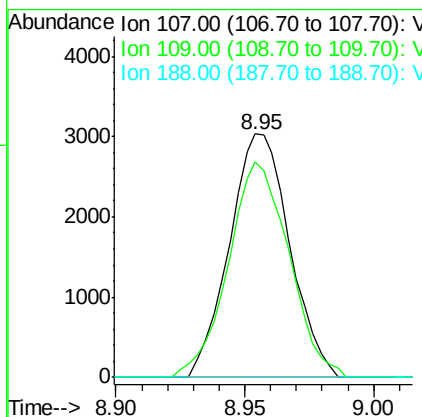
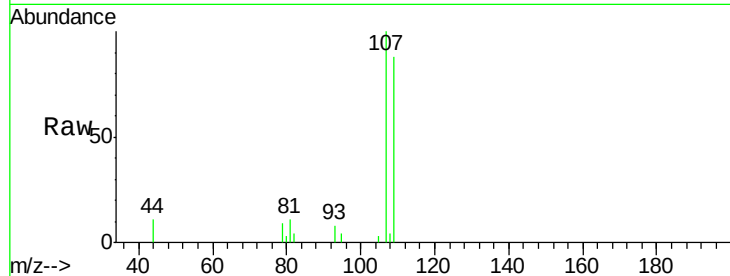
#50
 1,2-Dibromoethane
 Concen: 2.548 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. -0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
107	100		
109	88.5	65.8	122.2
188	0.0	2.5	3.7#

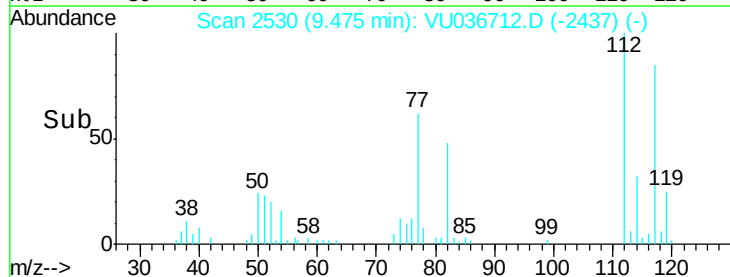
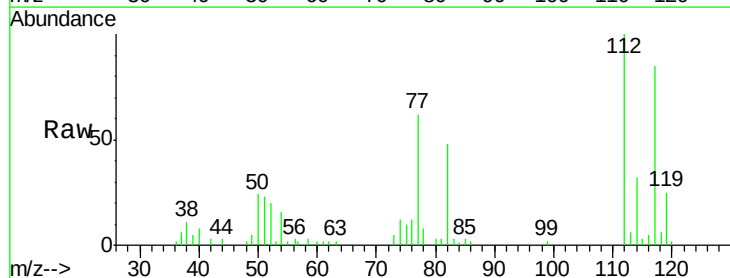
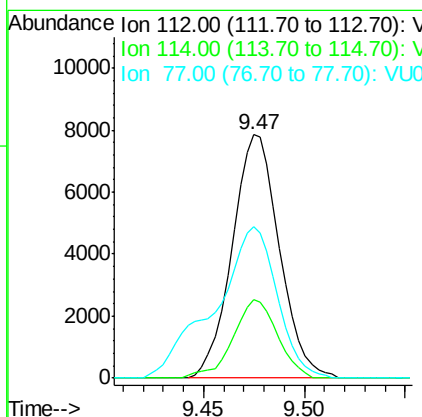
Manual Integrations
 APPROVED

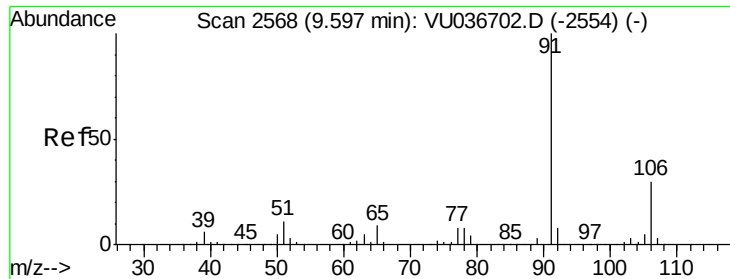
MMDadoda
 2/12/2020 3:10:14 PM



#51
 Chlorobenzene
 Concen: 2.641 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. -0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.7	42.1
77	62.0	50.6	75.8





#52

Ethylbenzene

Concen: 2.495 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Tot Ion: 91 Resp: 22161

Ion Ratio Lower Upper

91 100

106 32.6 21.3 39.6

Instrument :

MSVOA_U

ClientSampleId :

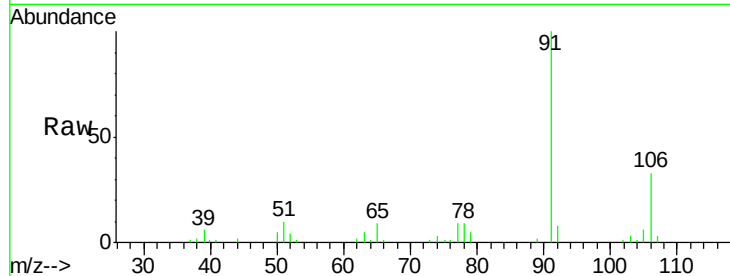
MDL07

Manual Integrations

APPROVED

MMDadoda

2/12/2020 3:10:14 PM



Abundance Ion 91.00 (90.70 to 91.70): VU036712.D (-2554) (-)

Ion 106.00 (105.70 to 106.70): VU036712.D (-2554) (-)

9.60

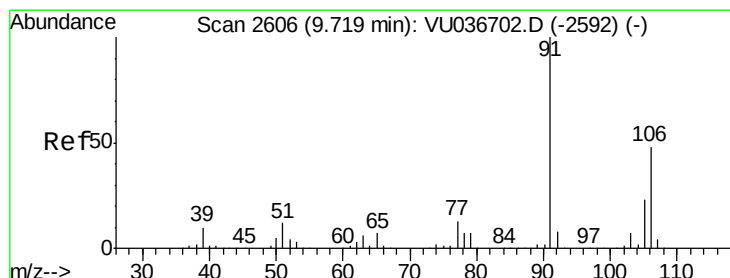
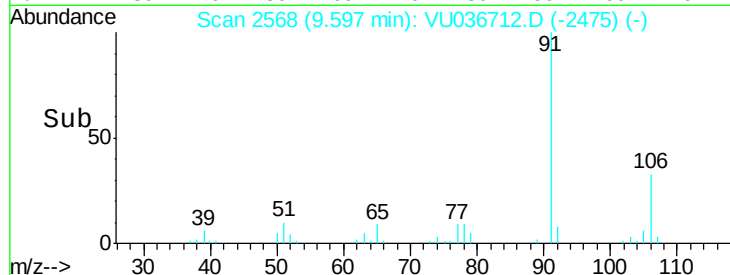
15000

10000

5000

0

Time-->



#53

m,p-Xylene

Concen: 2.549 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036712.D

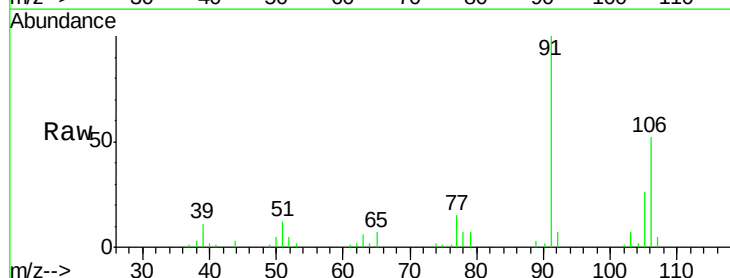
Acq: 10 Feb 2020 16:18

Tgt Ion: 106 Resp: 8352

Ion Ratio Lower Upper

106 100

91 192.2 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): VU036712.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VU036712.D (-2592) (-)

9.72

12000

10000

8000

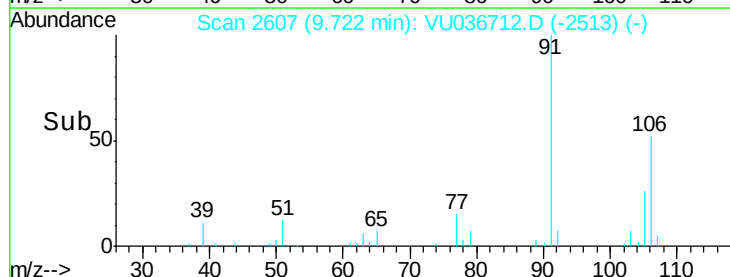
6000

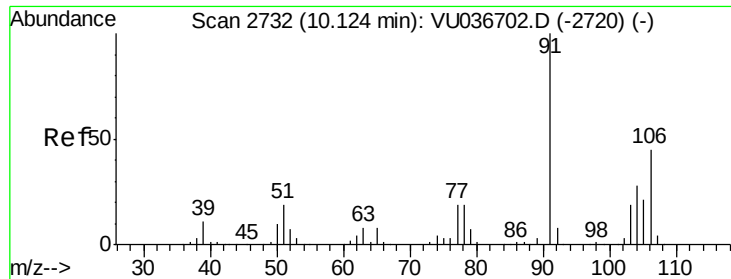
4000

2000

0

Time-->





#54

o-xylene

Concen: 2.476 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion:106 Resp: 8037

Ion Ratio Lower Upper

106 100

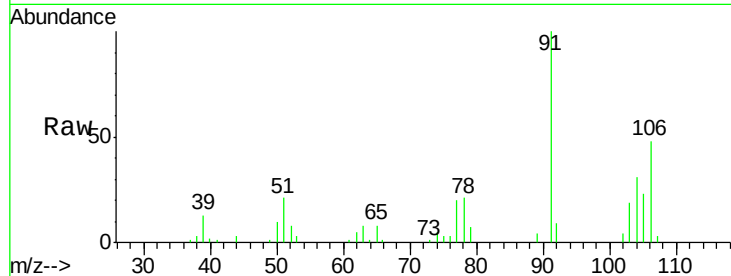
91 209.5 156.0 289.6

Manual Integrations

APPROVED

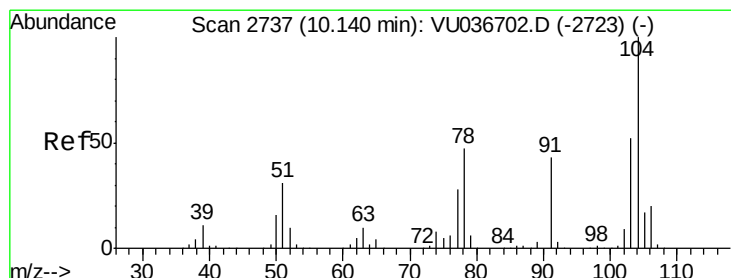
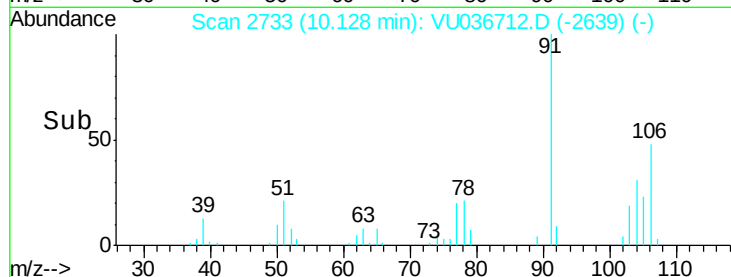
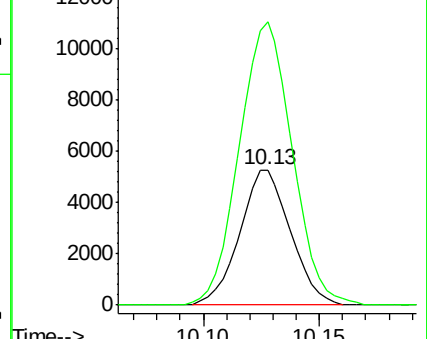
MMDadoda

2/12/2020 3:10:14 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.211 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. -0.00 min

Lab File: VU036712.D

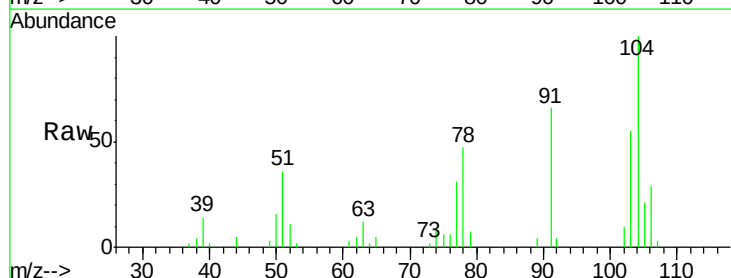
Acq: 10 Feb 2020 16:18

Tgt Ion:104 Resp: 11958

Ion Ratio Lower Upper

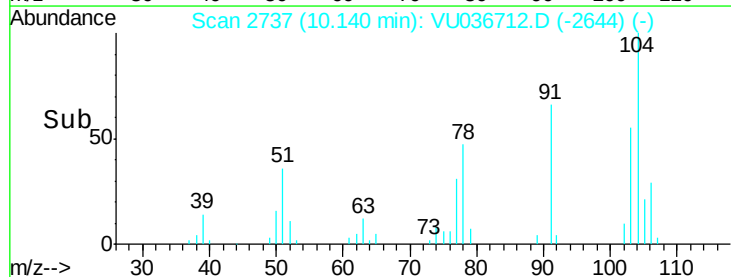
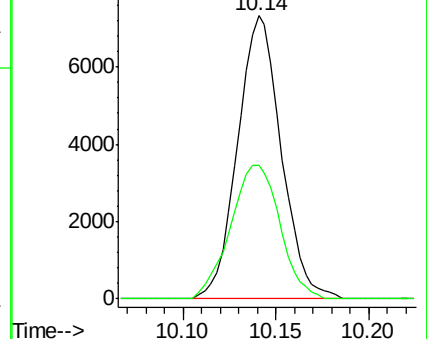
104 100

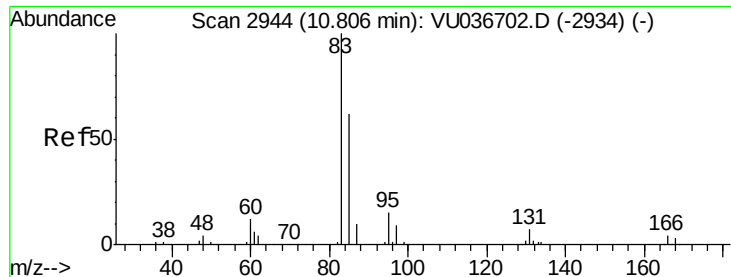
78 47.2 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.766 ug/L

RT: 10.81 min Scan# 2944

Delta R.T. -0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

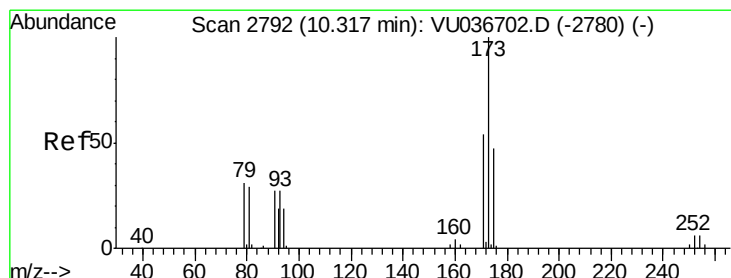
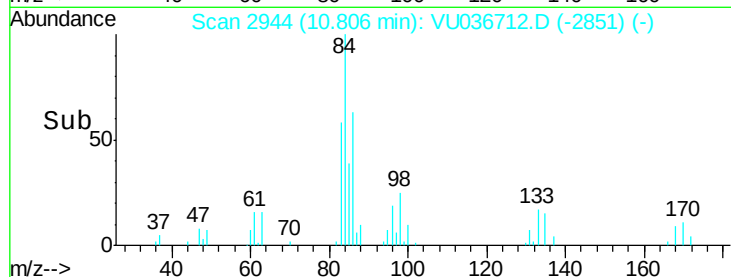
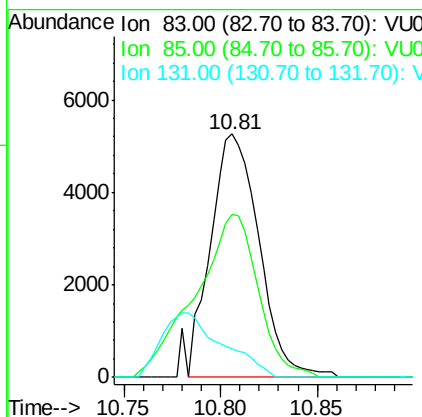
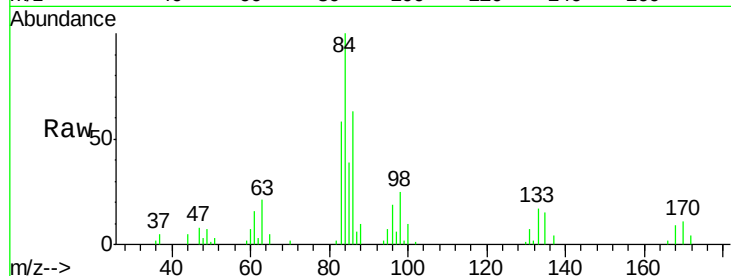
ClientSampleId :

MDL07

Tot Ion:	83	Resp:	9171
Ion	Ratio	Lower	Upper
83	100		
85	67.0	44.7	82.9
131	11.6	6.8	10.2#

Manual Integrations
APPROVED

MMDadoda
2/12/2020 3:10:14 PM



#59

Bromoform

Concen: 2.337 ug/L

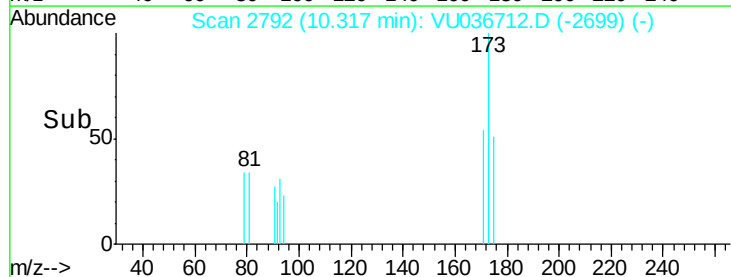
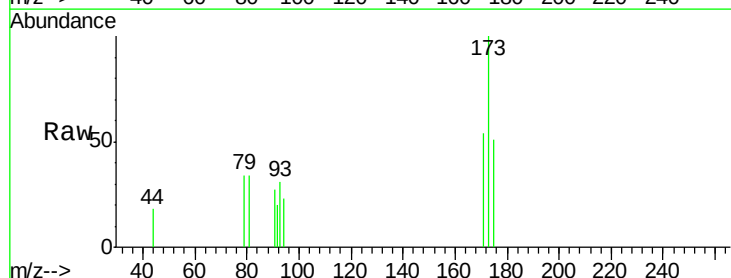
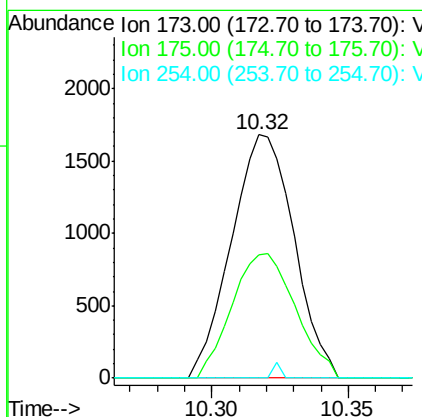
RT: 10.32 min Scan# 2792

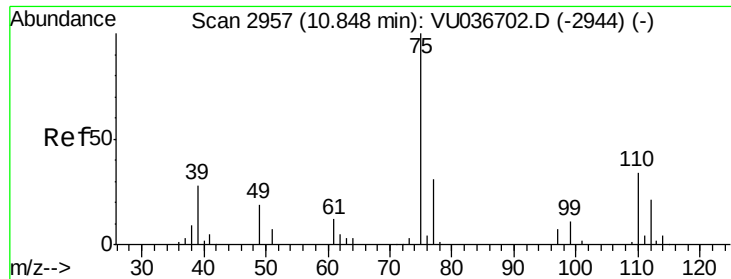
Delta R.T. -0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Tgt Ion:	173	Resp:	2679
Ion	Ratio	Lower	Upper
173	100		
175	51.9	38.2	57.4
254	0.0	4.8	7.2#





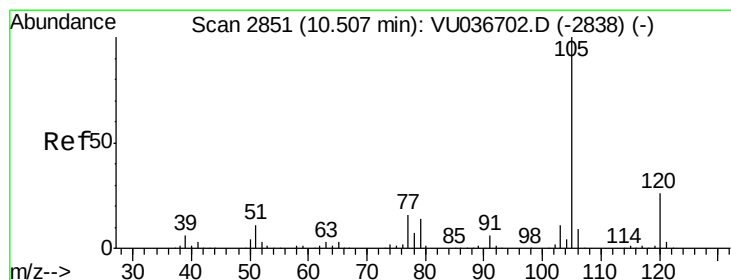
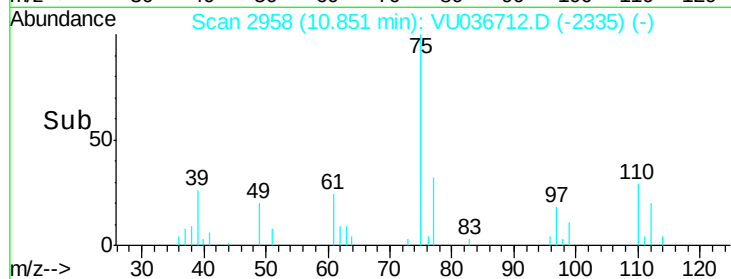
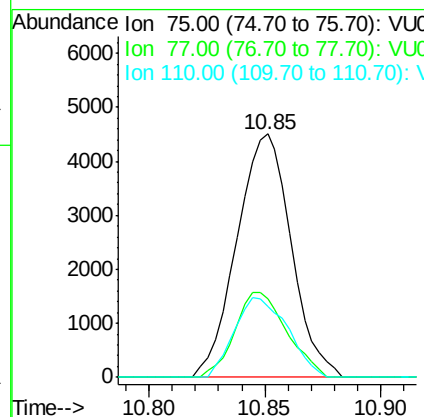
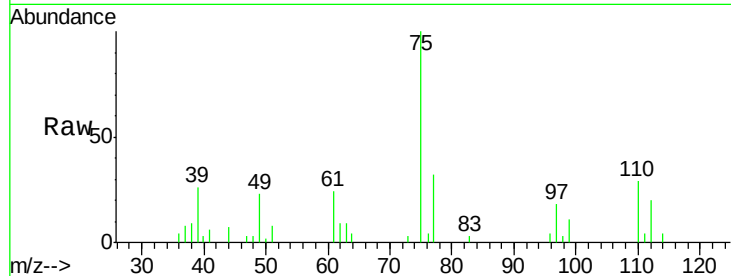
#60
1,2,3-Trichloropropane
Concen: 3.007 ug/L
RT: 10.85 min Scan# 2958
Delta R.T. 0.00 min
Lab File: VU036712.D
Acq: 10 Feb 2020 16:18

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.5	26.1	39.1
110	32.1	26.9	40.3

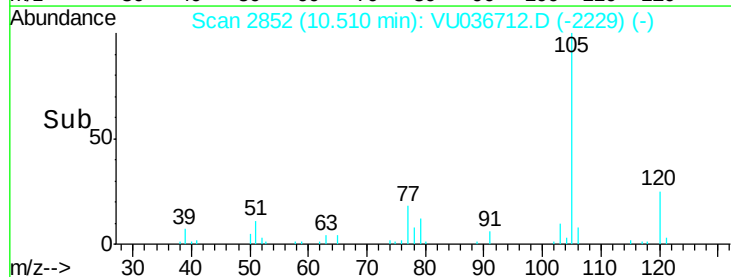
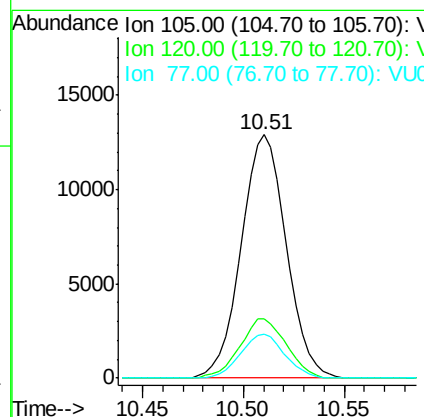
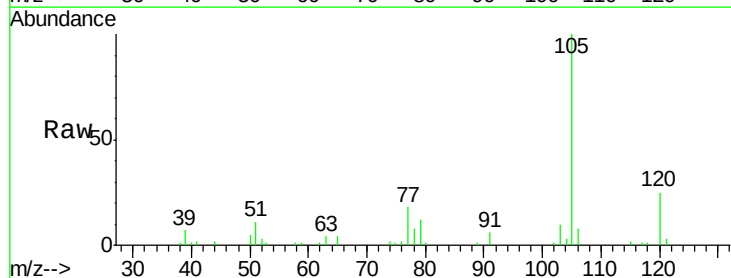
Manual Integrations
APPROVED

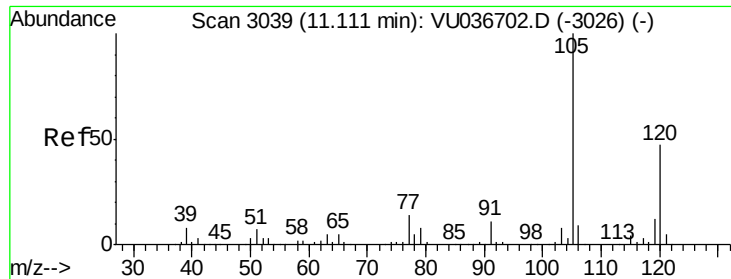
MMDadoda
2/12/2020 3:10:14 PM



#61
Isopropylbenzene
Concen: 2.616 ug/L
RT: 10.51 min Scan# 2852
Delta R.T. 0.00 min
Lab File: VU036712.D
Acq: 10 Feb 2020 16:18

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.1	20.2	30.4
77	17.7	13.0	19.6





#62

1,3,5-Trimethylbenzene

Concen: 2.503 ug/L

RT: 11.11 min Scan# 3039

Delta R.T. -0.00 min

Lab File: VU036712.D

Acq: 10 Feb 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion:105 Resp: 16581

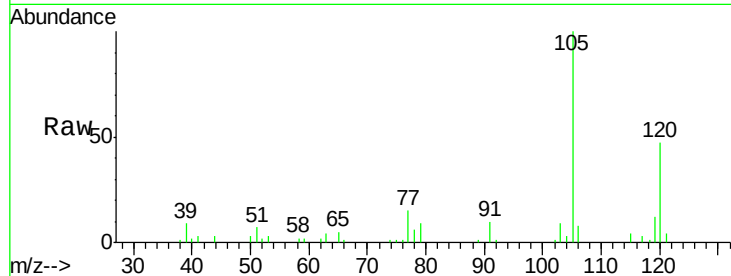
Ion Ratio Lower Upper

105 100

120 46.6 37.1 55.7

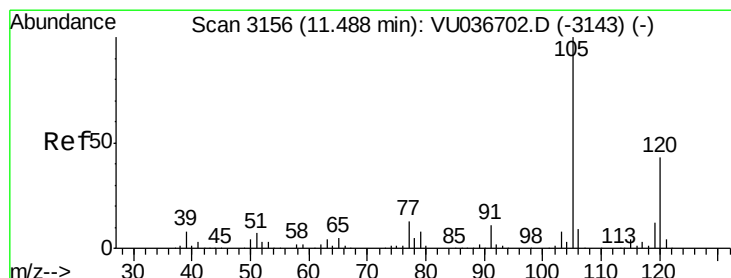
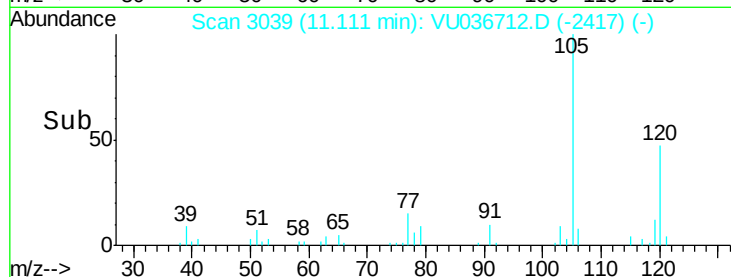
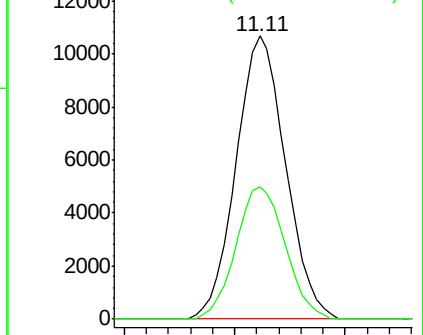
Manual Integrations
APPROVED

MMDadoda
2/12/2020 3:10:14 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.490 ug/L

RT: 11.49 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VU036712.D

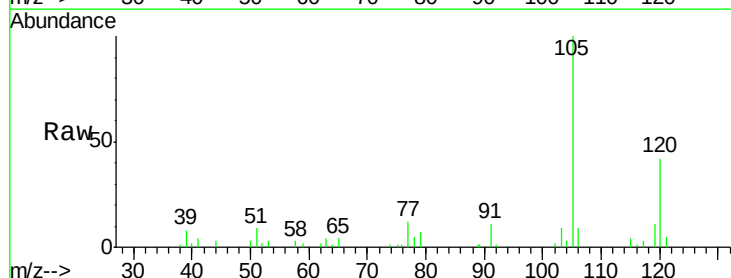
Acq: 10 Feb 2020 16:18

Tgt Ion:105 Resp: 16468

Ion Ratio Lower Upper

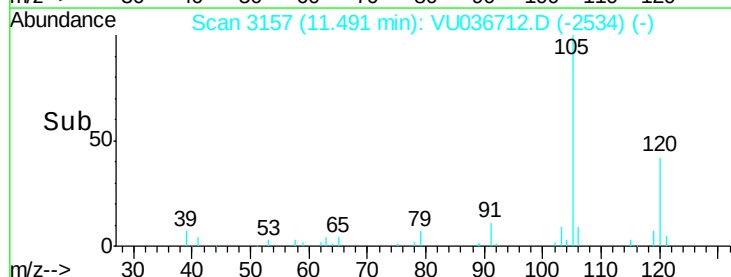
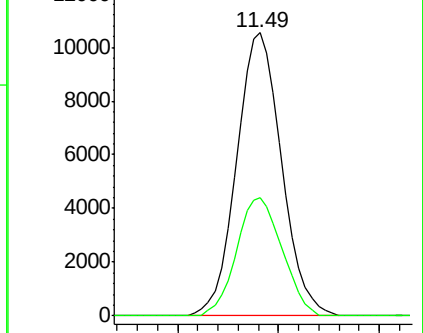
105 100

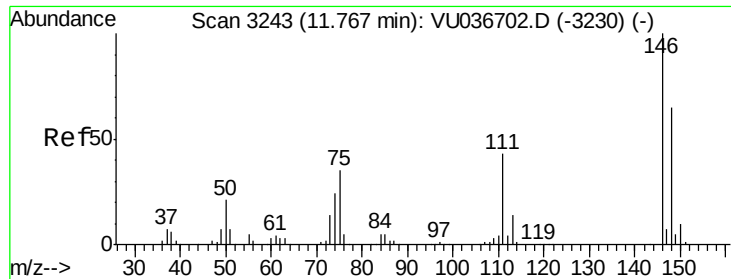
120 42.1 34.7 52.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





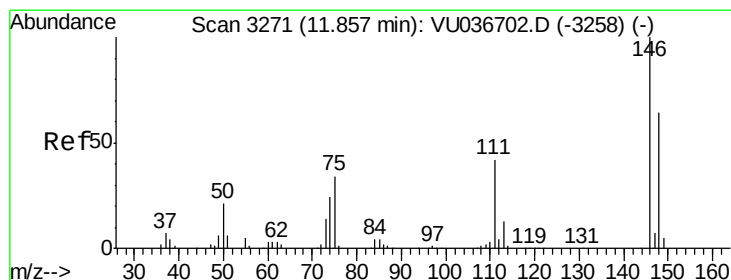
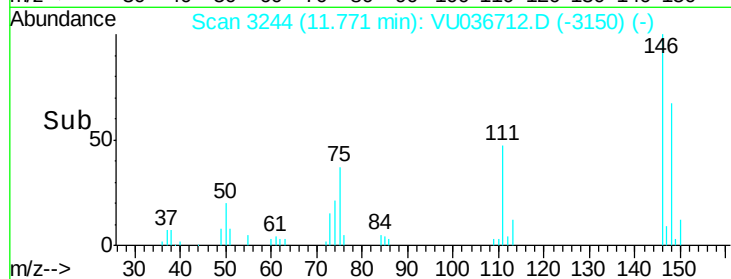
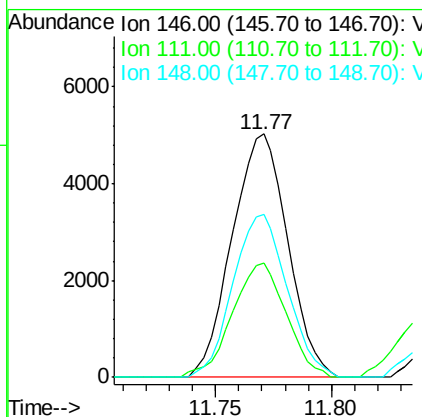
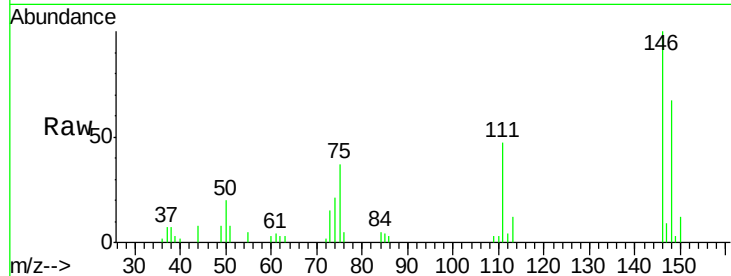
#64
 1,3-Dichlorobenzene
 Concen: 2.582 ug/L
 RT: 11.77 min Scan# 3244
 Delta R.T. 0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.9	30.4	56.4
148	67.0	44.5	82.7

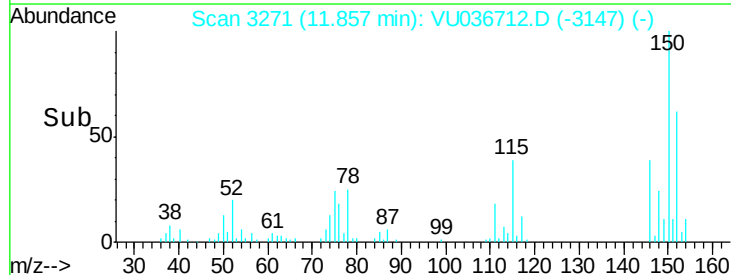
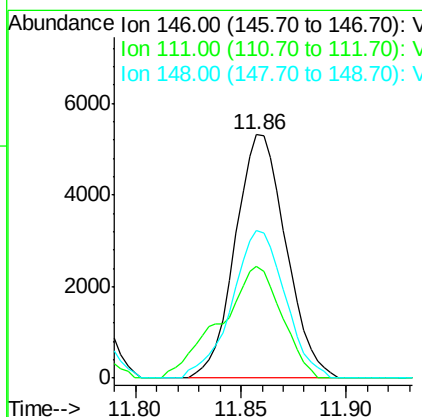
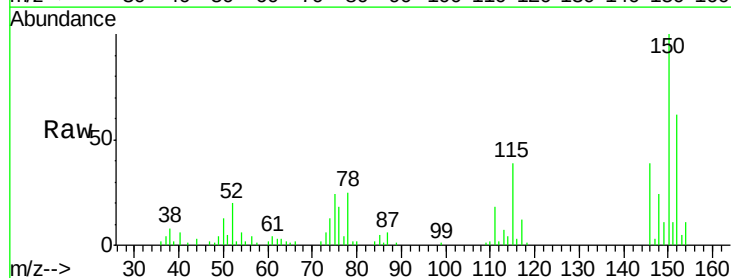
Manual Integrations
 APPROVED

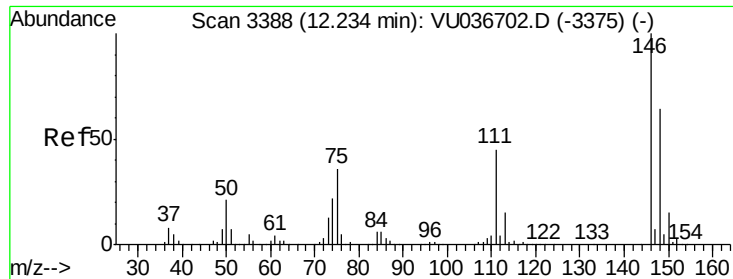
MMDadoda
 2/12/2020 3:10:14 PM



#65
 1,4-Dichlorobenzene
 Concen: 2.722 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. -0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.0	29.3	54.3
148	60.4	44.8	83.2





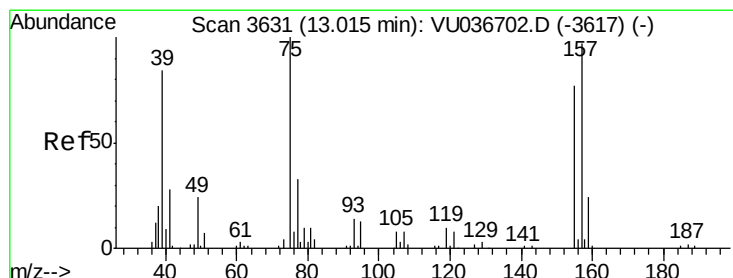
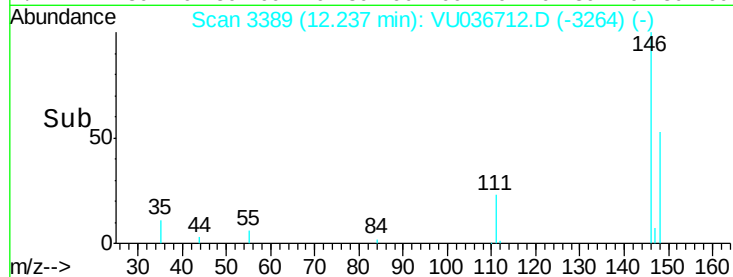
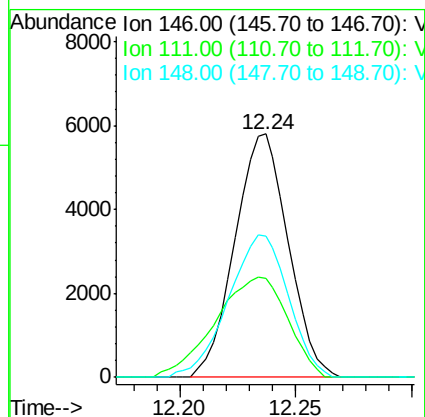
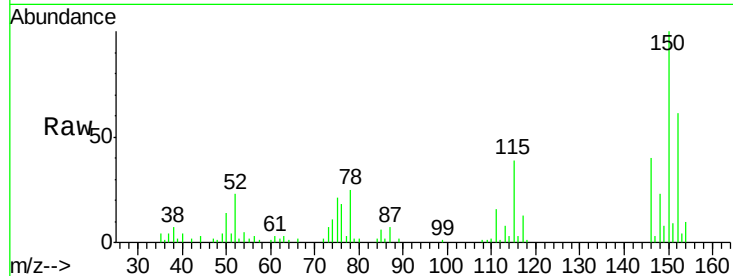
#67
 1,2-Dichlorobenzene
 Concen: 2.819 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.6	35.4	53.0
148	58.2	50.4	75.6

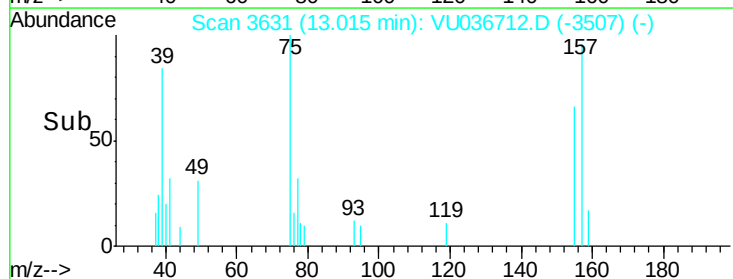
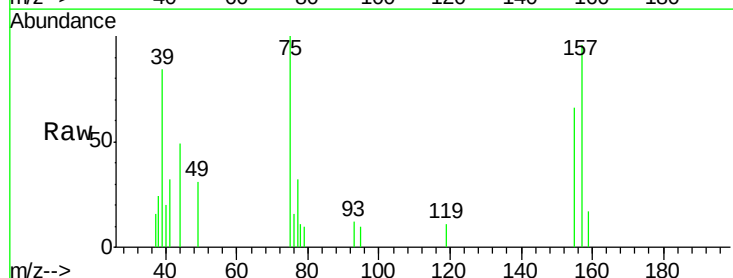
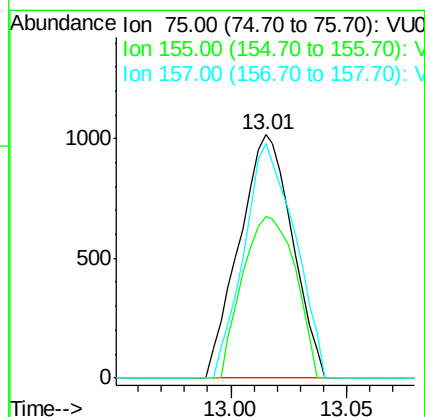
Manual Integrations
 APPROVED

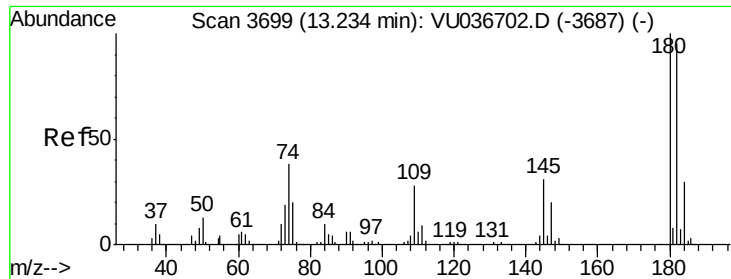
MMDadoda
 2/12/2020 3:10:14 PM



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.320 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. -0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Tgt Ion	Ratio	Lower	Upper
75	100		
155	66.2	58.7	88.1
157	96.2	77.8	116.6





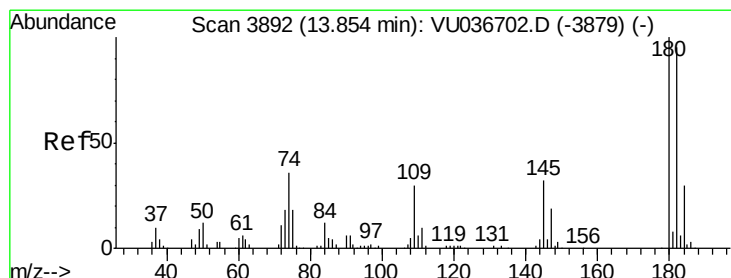
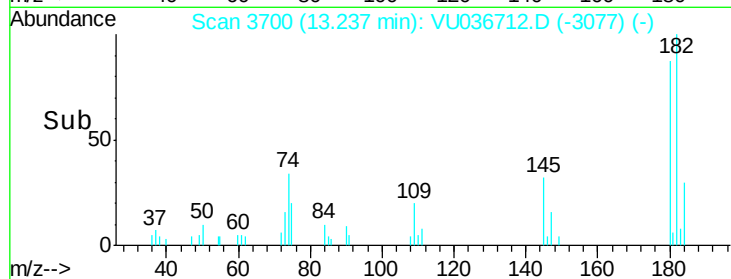
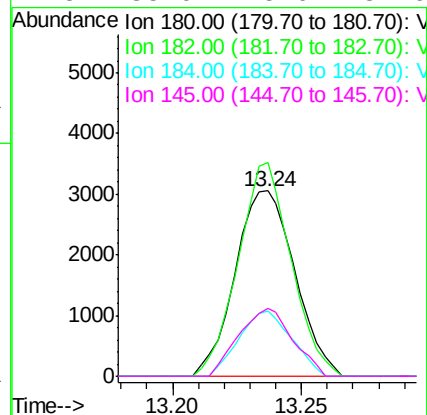
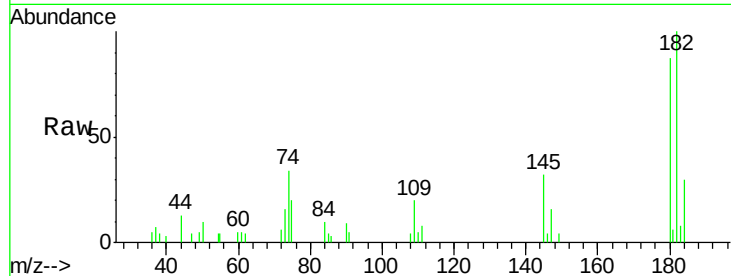
#69
 1,3,5-Trichlorobenzene
 Concen: 2.190 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.1	76.2	114.4
184	31.0	23.8	35.6
145	33.0	25.0	37.6

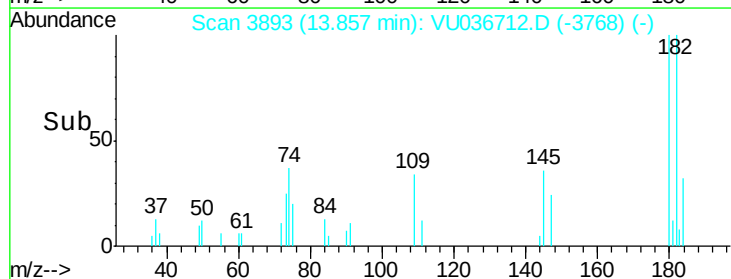
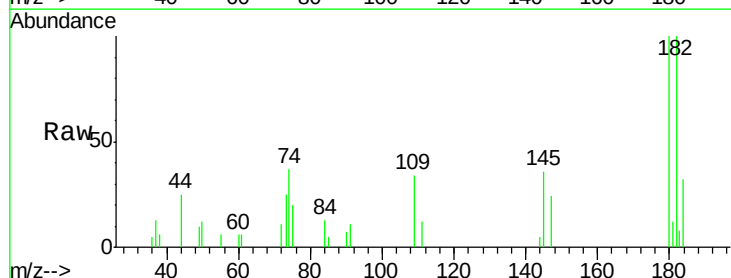
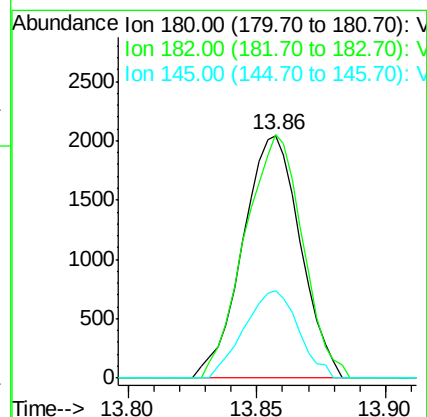
Manual Integrations
 APPROVED

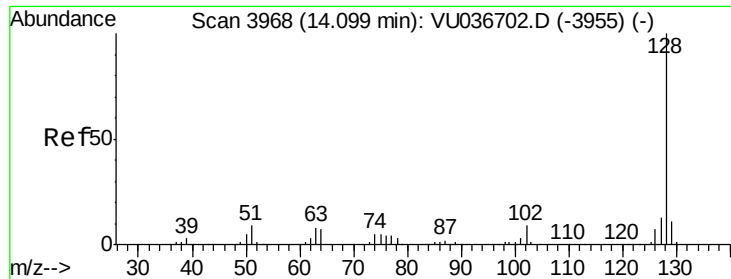
MMDadoda
 2/12/2020 3:10:14 PM



#70
 1,2,4-trichlorobenzene
 Concen: 1.701 ug/L
 RT: 13.86 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU036712.D
 Acq: 10 Feb 2020 16:18

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.3	76.1	114.1
145	33.7	25.7	38.5





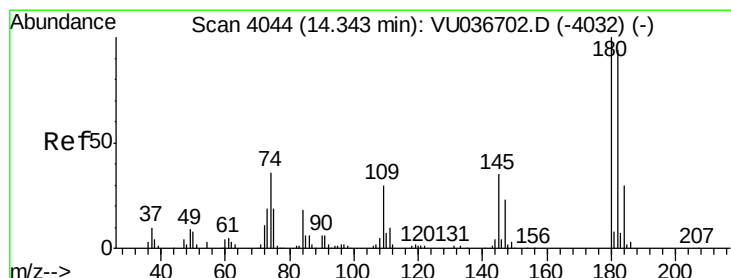
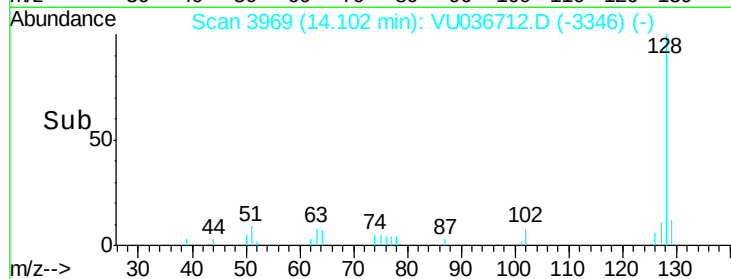
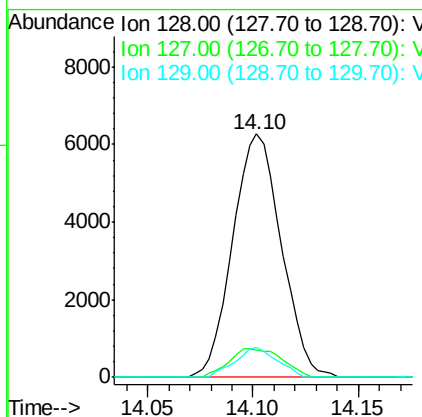
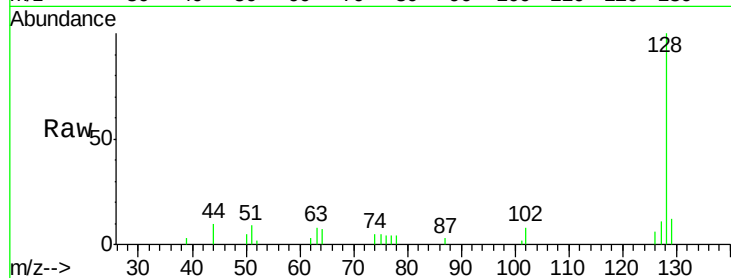
#71
Naphthalene
Concen: 1.514 ug/L
RT: 14.10 min Scan# 3969
Delta R.T. 0.00 min
Lab File: VU036712.D
Acq: 10 Feb 2020 16:18

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.8	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
2/12/2020 3:10:14 PM



#72
1,2,3-Trichlorobenzene
Concen: 1.766 ug/L
RT: 14.35 min Scan# 4045
Delta R.T. 0.00 min
Lab File: VU036712.D
Acq: 10 Feb 2020 16:18

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.8	115.2
145	32.8	27.5	41.3

