

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026164.D
 Acq On : 15 Aug 2018 22:49
 Operator : MD/SY
 Sample : MDL02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:26 PM

Quant Time: Aug 16 05:02:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 16 04:40:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	277808	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	262981	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	112535	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	67647	41.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.94%
7) Chloroethane-d5	1.67	69	59165	44.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.24%
11) 1,1-Dichloroethene-d2	2.27	63	107637	33.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.20%
21) 2-Butanone-d5	4.18	46	130284	104.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.09%
24) Chloroform-d	4.65	84	164227	44.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.90%
26) 1,2-Dichloroethane-d4	5.31	65	113021	47.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.52%
32) Benzene-d6	5.34	84	316454	46.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.34%
36) 1,2-Dichloropropane-d6	6.33	67	106522	47.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.58%
41) Toluene-d8	7.57	98	288291	44.42	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.84%
43) trans-1,3-Dichloropropene-	7.85	79	48299	45.76	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.52%
47) 2-Hexanone-d5	8.31	63	90461	99.05	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.05%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	143668	45.79	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.58%
64) 1,2-Dichlorobenzene-d4	11.86	152	113026	48.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.52%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	4668	2.12	ug/L	97
3) Chloromethane	1.33	50	5084	2.54	ug/L	97
5) Vinyl chloride	1.40	62	4751	2.38	ug/L #	66
6) Bromomethane	1.62	94	2508	2.43	ug/L	89
8) Chloroethane	1.69	64	2873	2.40	ug/L	91
9) Trichlorofluoromethane	1.88	101	6188	2.10	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	4693	2.93	ug/L #	78
12) 1,1-Dichloroethene	2.28	96	4159	2.83	ug/L #	1
13) Acetone	2.32	43	4973	4.34	ug/L	97
14) Carbon disulfide	2.48	76	11380	2.24	ug/L	98
15) Methyl Acetate	2.62	43	5206	2.62	ug/L	95
16) Methylene chloride	2.70	84	4888	2.49	ug/L	96
17) trans-1,2-Dichloroethene	2.98	96	4001m	2.30	ug/L	
18) Methyl tert-butyl Ether	3.00	73	11769	2.13	ug/L #	91
19) 1,1-Dichloroethane	3.45	63	8116	2.42	ug/L	96
20) cis-1,2-Dichloroethene	4.23	96	4371	2.24	ug/L	95
22) 2-Butanone	4.27	43	6666m	4.67	ug/L	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026164.D
 Acq On : 15 Aug 2018 22:49
 Operator : MD/SY
 Sample : MDL02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:26 PM

Quant Time: Aug 16 05:02:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 16 04:40:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	2262	2.14	ug/L	89
25) Chloroform	4.68	83	9959	2.83	ug/L	97
27) 1,2-Dichloroethane	5.41	62	7070	2.48	ug/L	100
29) Cyclohexane	5.00	56	5496m	2.09	ug/L	
30) 1,1,1-Trichloroethane	4.92	97	7396	2.35	ug/L	96
31) Carbon tetrachloride	5.14	117	6508	2.29	ug/L	98
33) Benzene	5.39	78	16807	2.36	ug/L	100
34) Trichloroethene	6.19	95	4085	2.20	ug/L	98
35) Methylcyclohexane	6.42	83	5736	2.06	ug/L	95
37) 1,2-Dichloropropane	6.44	63	4243	2.13	ug/L	99
38) Bromodichloromethane	6.76	83	6304	2.39	ug/L #	92
39) cis-1,3-Dichloropropene	7.27	75	6136	2.08	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	10630	4.31	ug/L	95
42) Toluene	7.64	91	17186	2.27	ug/L	97
44) trans-1,3-Dichloropropene	7.88	75	6468	2.27	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	4026	2.14	ug/L	86
46) Tetrachloroethene	8.23	164	3606	2.25	ug/L	90
48) 2-Hexanone	8.37	43	10281	5.32	ug/L #	93
49) Dibromochloromethane	8.48	129	5138	2.26	ug/L	98
50) 1,2-Dibromoethane	8.59	107	4507	2.30	ug/L #	94
51) Chlorobenzene	9.12	112	11339	2.19	ug/L	97
52) Ethylbenzene	9.25	91	16545	2.01	ug/L	94
53) m,p-Xylene	9.38	106	5950	1.87	ug/L	96
54) o-xylene	9.78	106	6326	2.00	ug/L	90
55) Styrene	9.80	104	9067	1.72	ug/L	94
56) Isopropylbenzene	10.17	105	13631	1.68	ug/L	97
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	7400	2.35	ug/L	96
59) 1,2,3-Trichloropropane	10.49	75	5578	2.28	ug/L	97
61) Bromoform	9.96	173	3760	2.56	ug/L #	97
62) 1,3-Dichlorobenzene	11.42	146	7020	2.08	ug/L	87
63) 1,4-Dichlorobenzene	11.51	146	7871	2.26	ug/L	97
65) 1,2-Dichlorobenzene	11.88	146	8847	2.45	ug/L	93
66) 1,2-Dibromo-3-chloropropan	12.66	75	1308	2.29	ug/L	91
67) 1,3,5-Trichlorobenzene	12.89	180	5094	2.05	ug/L	98
68) 1,2,4-trichlorobenzene	13.51	180	2951	1.56	ug/L #	97
69) Naphthalene	13.75	128	7810m	1.45	ug/L	
70) 1,2,3-Trichlorobenzene	13.99	180	3069m	1.52	ug/L	

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

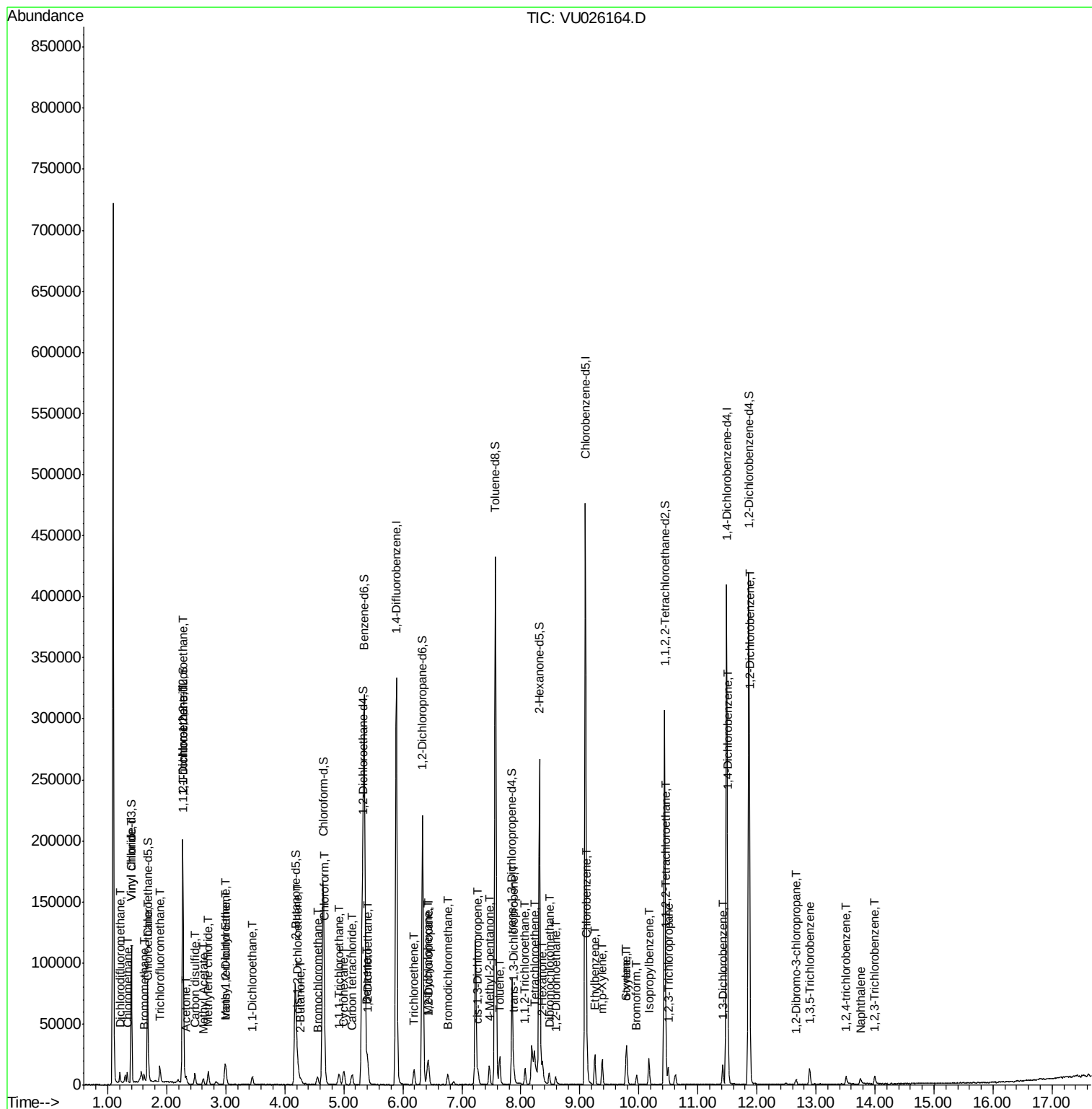
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU081518\
Data File : VU026164.D
Acq On : 15 Aug 2018 22:49
Operator : MD/SY
Sample : MDL02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 37 Sample Multiplier: 1

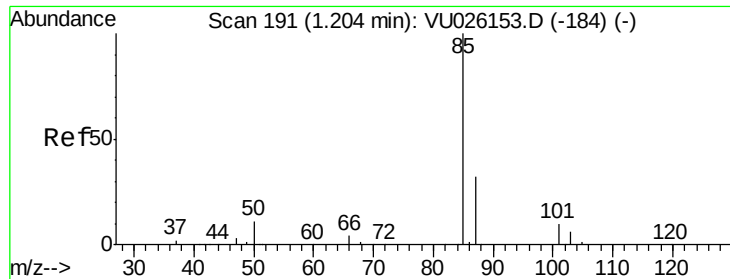
Instrument :
MSVOA_U
ClientSampleId :
MDL02

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:26 PM

Quant Time: Aug 16 05:02:24 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081518WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 16 04:40:24 2018
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.12 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Tot Ion: 85 Resp: 4668

Ion Ratio Lower Upper

85 100

87 34.5 26.1 39.1

Instrument :

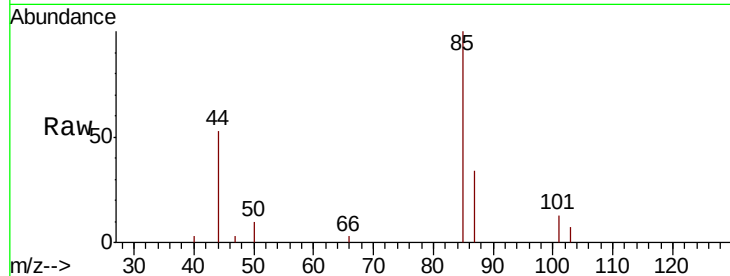
MSVOA_U

ClientSampled :

MDL02

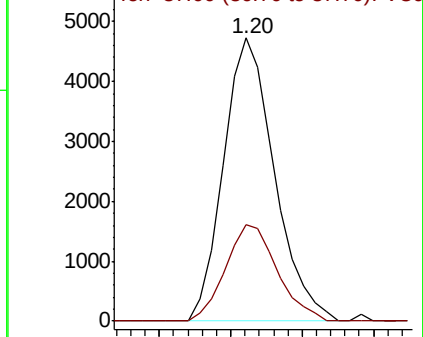
Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:26 PM

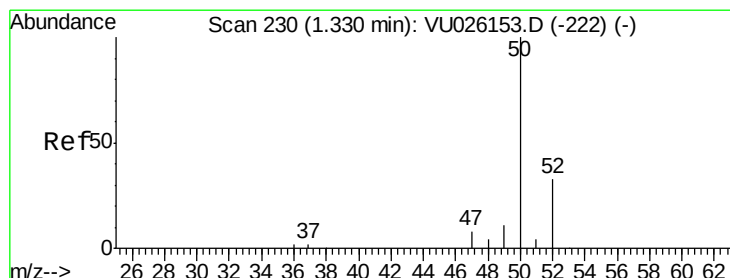
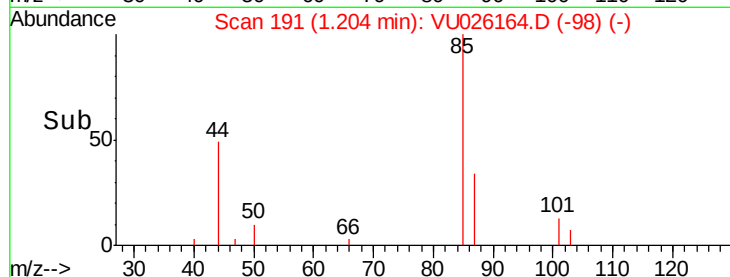


Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



Time-->



#3

Chloromethane

Concen: 2.54 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU026164.D

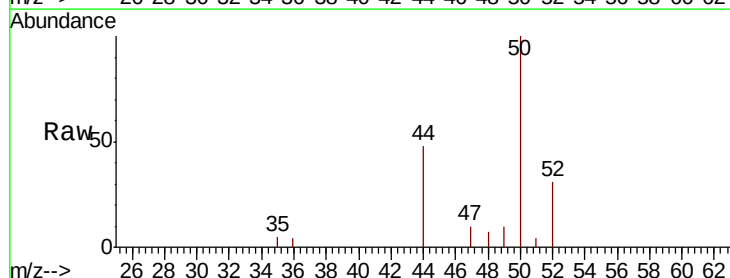
Acq: 15 Aug 2018 22:49

Tgt Ion: 50 Resp: 5084

Ion Ratio Lower Upper

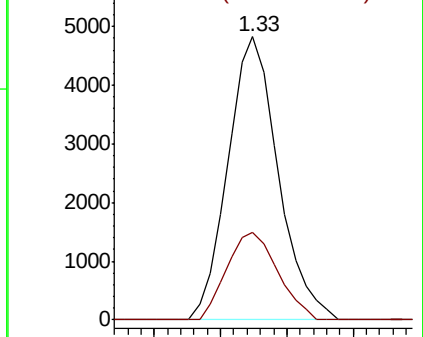
50 100

52 31.1 23.0 42.8

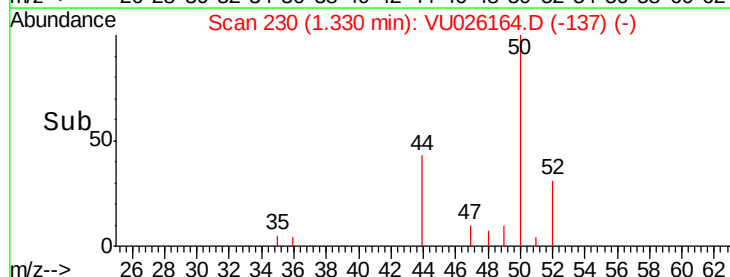


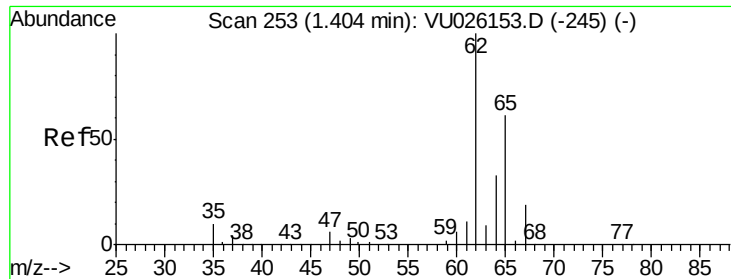
Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



Time-->





#5

Vinyl chloride

Concen: 2.38 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 62 Resp: 4751

Ion Ratio Lower Upper

62 100

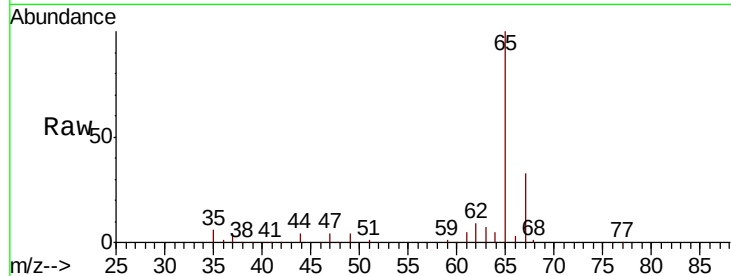
64 52.1 23.0 42.8#

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:26 PM



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

4000

3000

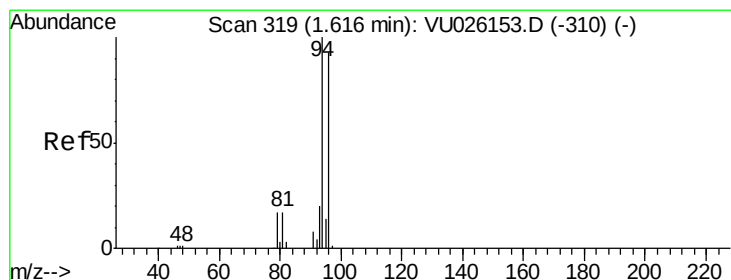
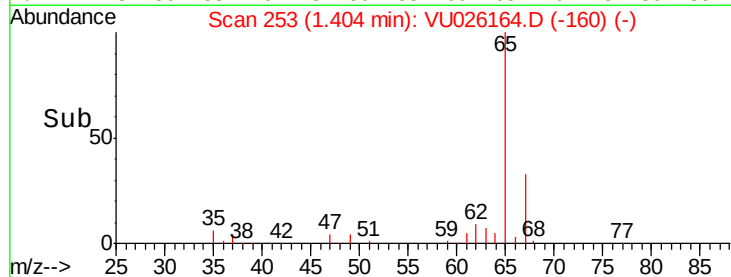
2000

1000

0

Time-->

1.36 1.38 1.40 1.42 1.44



#6

Bromomethane

Concen: 2.43 ug/L

RT: 1.62 min Scan# 320

Delta R.T. 0.00 min

Lab File: VU026164.D

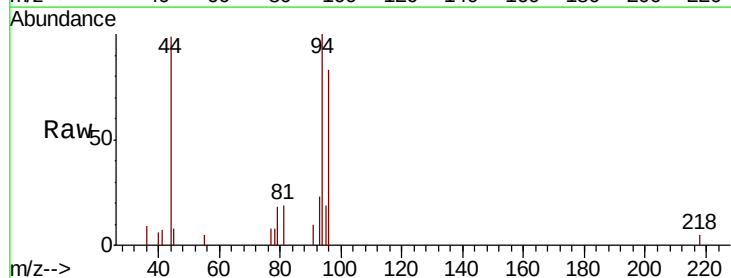
Acq: 15 Aug 2018 22:49

Tgt Ion: 94 Resp: 2508

Ion Ratio Lower Upper

94 100

96 83.4 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.62

2000

1500

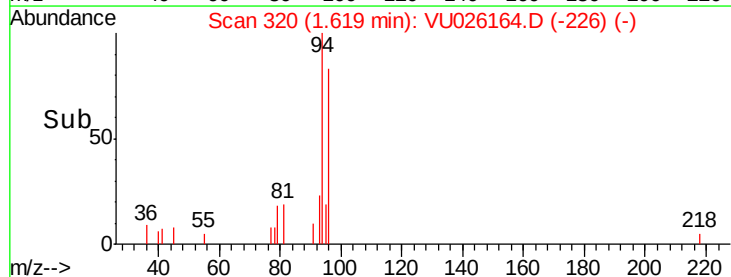
1000

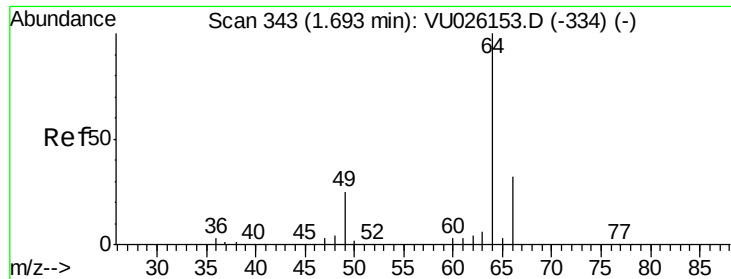
500

0

Time-->

1.58 1.60 1.62 1.64 1.66





#8

Chloroethane

Concen: 2.40 ug/L

RT: 1.69 min Scan# 343

Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 64 Resp: 2873

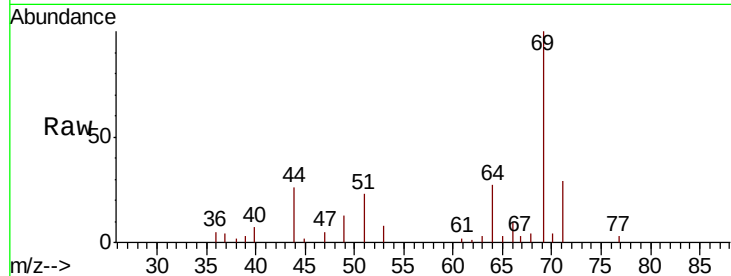
Ion Ratio Lower Upper

64 100

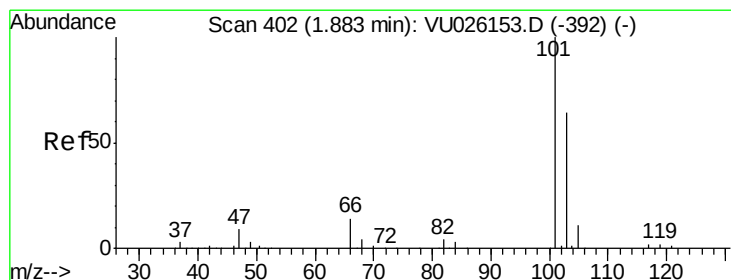
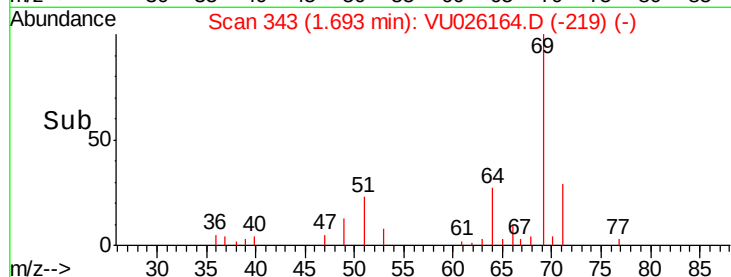
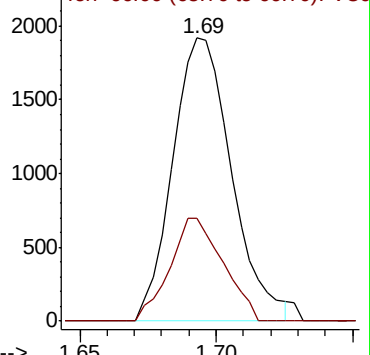
66 36.5 22.2 41.2

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:26 PM



Abundance Ion 64.00 (63.70 to 64.70): VU026164.D (-219) (-)



#9

Trichlorofluoromethane

Concen: 2.10 ug/L

RT: 1.88 min Scan# 402

Delta R.T. 0.00 min

Lab File: VU026164.D

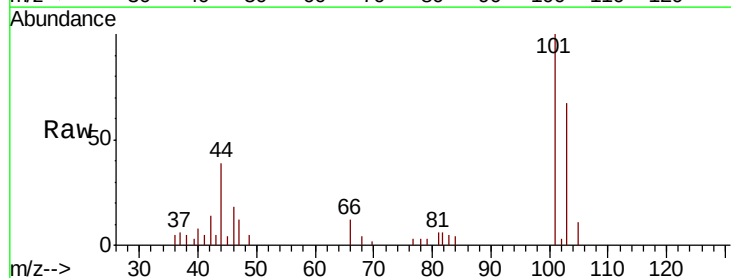
Acq: 15 Aug 2018 22:49

Tgt Ion:101 Resp: 6188

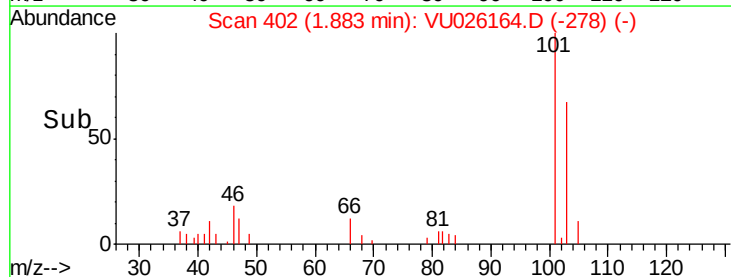
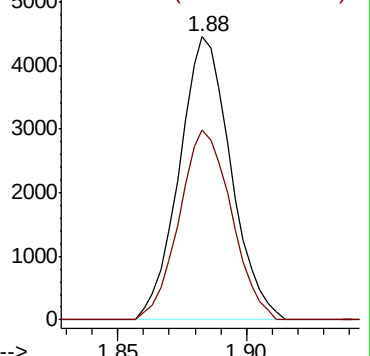
Ion Ratio Lower Upper

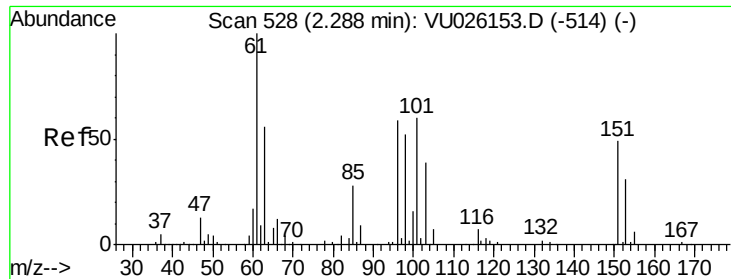
101 100

103 67.6 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU026164.D (-278) (-)





#10

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

Concen: 2.93 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Instrument :

MSVOA_U

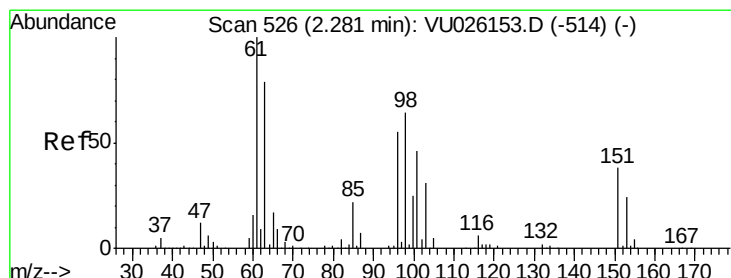
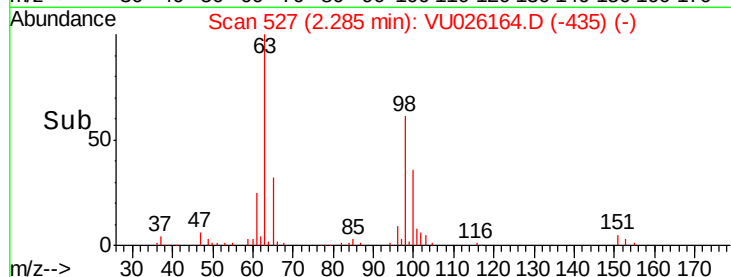
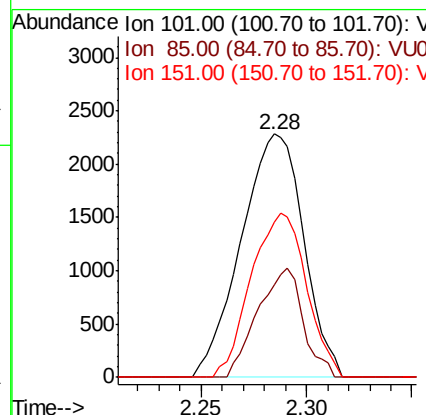
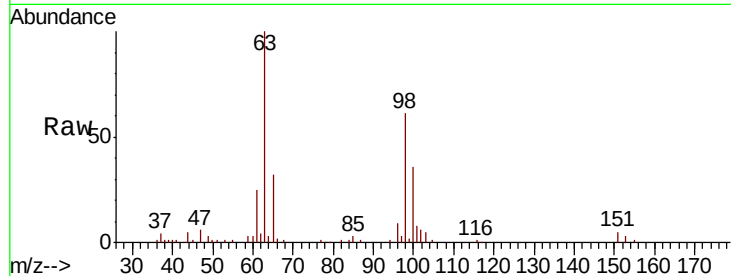
ClientSampleId :

MDL02

Tot Ion:	101	Resp:	4693
Ion Ratio	Lower	Upper	
101	100		
85	32.6	36.6	55.0#
151	59.9	63.8	95.8#

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:26 PM



#12

1,1-Dichloroethene

Concen: 2.83 ug/L

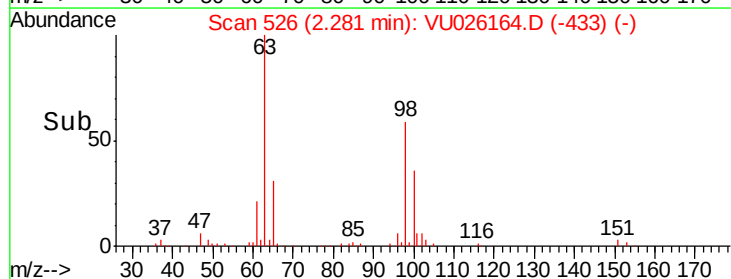
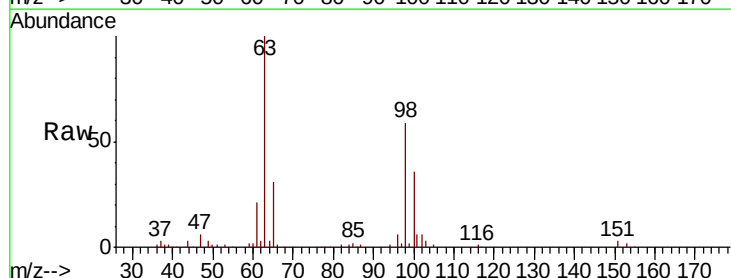
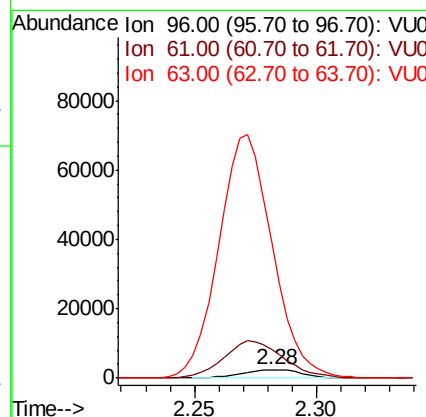
RT: 2.28 min Scan# 526

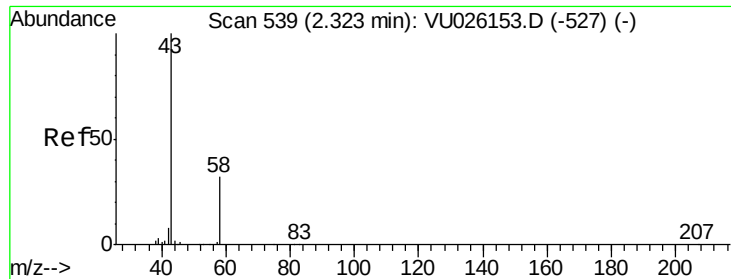
Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Tgt Ion:	96	Resp:	4159
Ion Ratio	Lower	Upper	
96	100		
61	338.0	126.8	235.4#
63	1595.4	97.0	180.2#





#13

Acetone

Concen: 4.34 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 4973

Ion Ratio Lower Upper

43 100

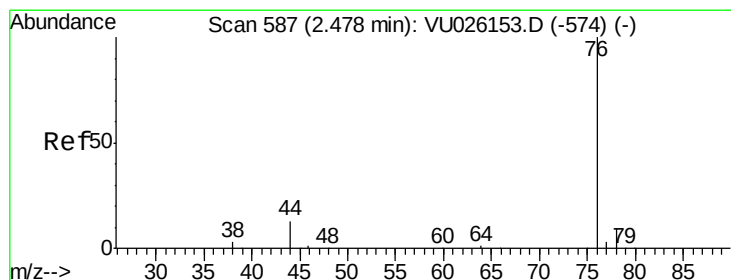
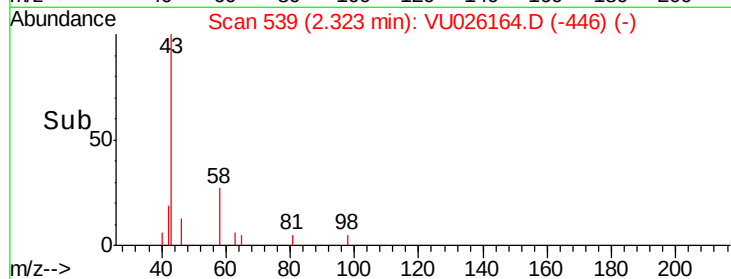
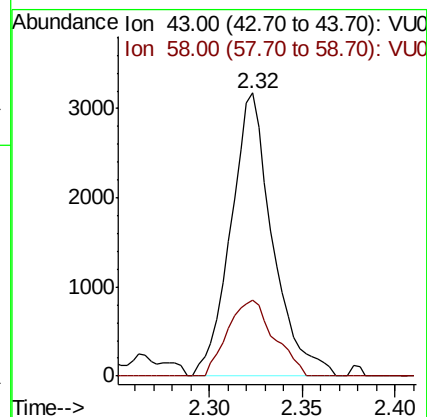
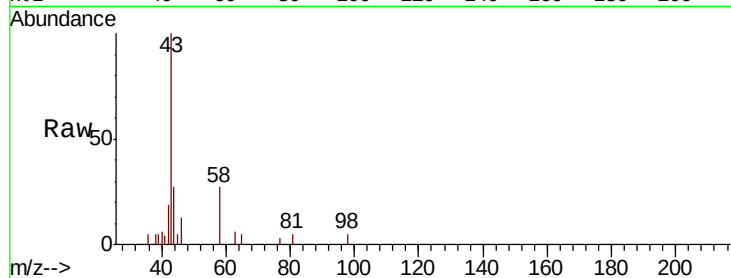
58 29.8 0.0 62.6

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:26 PM



#14

Carbon disulfide

Concen: 2.24 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU026164.D

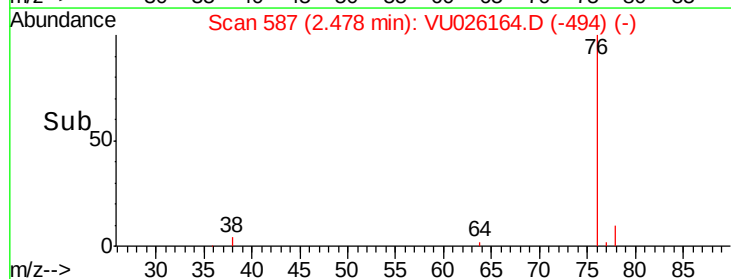
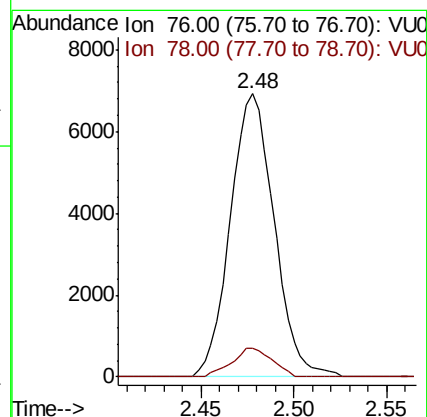
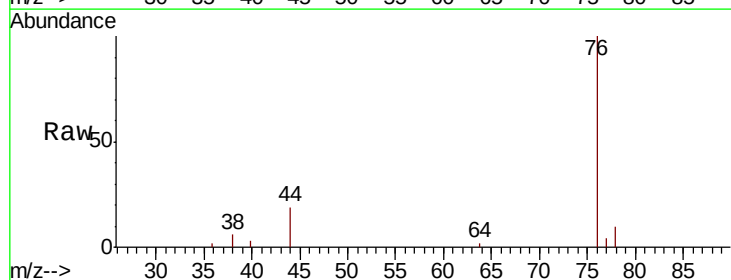
Acq: 15 Aug 2018 22:49

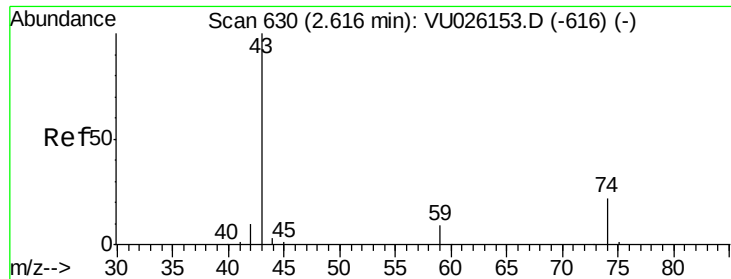
Tgt Ion: 76 Resp: 11380

Ion Ratio Lower Upper

76 100

78 10.2 7.4 11.2





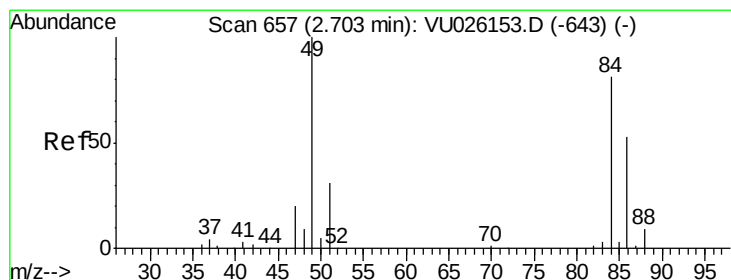
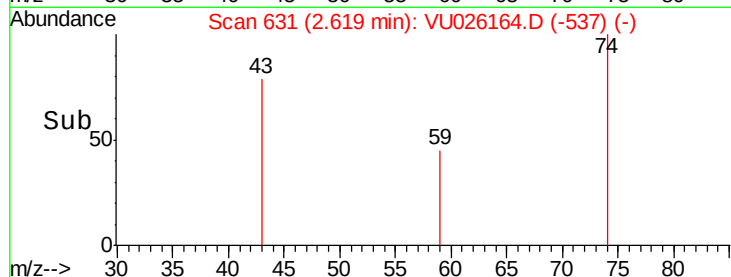
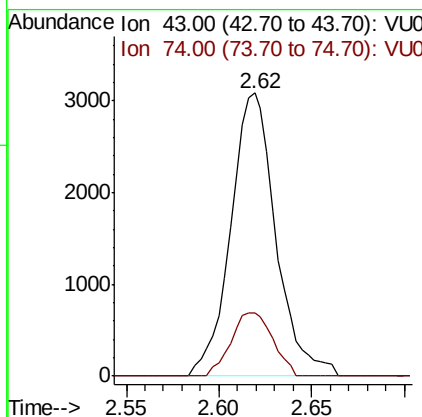
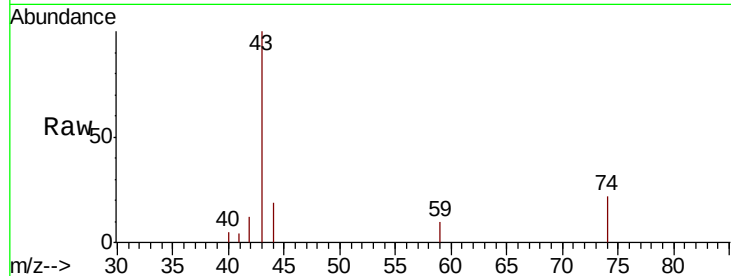
#15
Methyl Acetate
Concen: 2.62 ug/L
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU026164.D
Acq: 15 Aug 2018 22:49

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion: 43 Resp: 5206
Ion Ratio Lower Upper
43 100
74 20.7 18.6 28.0

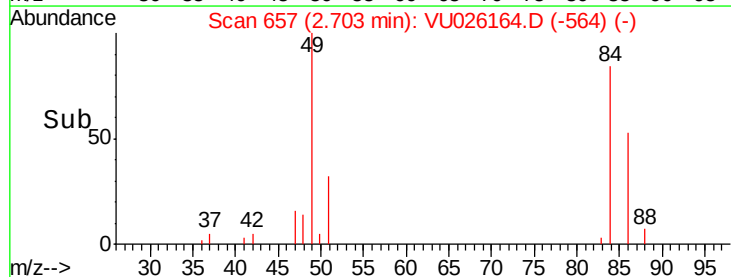
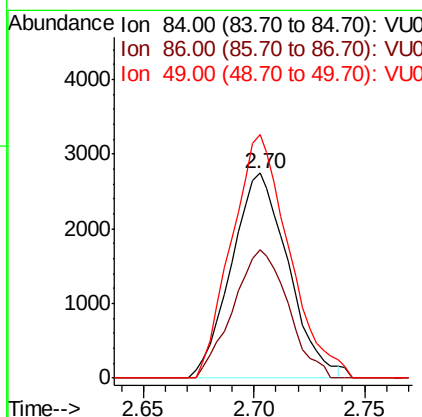
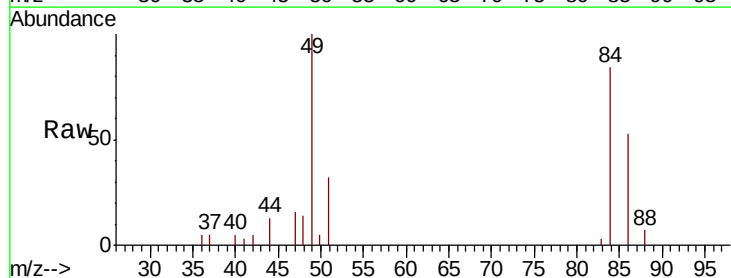
Manual Integrations
APPROVED

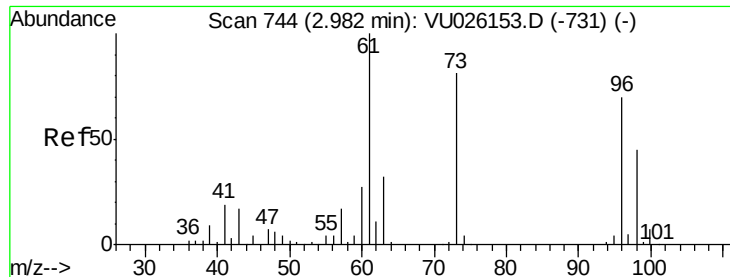
MMDadoda
8/16/2018 4:20:26 PM



#16
Methylene chloride
Concen: 2.49 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU026164.D
Acq: 15 Aug 2018 22:49

Tgt Ion: 84 Resp: 4888
Ion Ratio Lower Upper
84 100
86 62.8 44.0 81.6
49 118.7 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 2.30 ug/L m

RT: 2.98 min Scan# 743

Delta R.T. -0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Instrument :

MSVOA_U

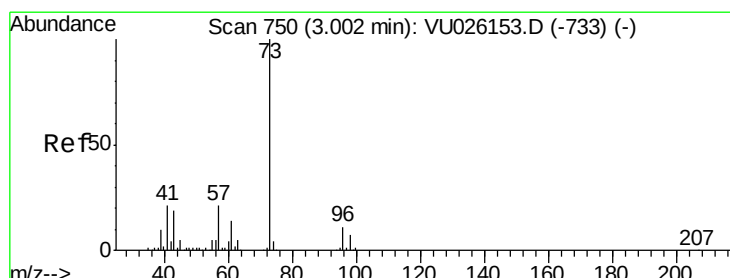
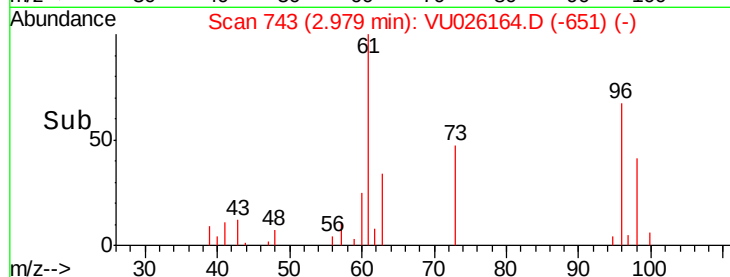
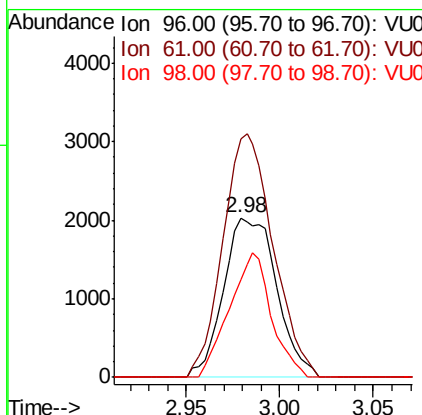
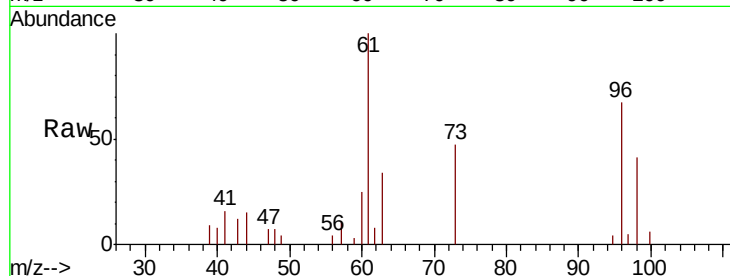
ClientSampled :

MDL02

Tot Ion:	96	Resp:	4001
Ion	Ratio	Lower	Upper
96	100		
61	149.6	96.7	179.5
98	61.6	43.6	81.0

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:26 PM



#18

Methyl tert-butyl Ether

Concen: 2.13 ug/L

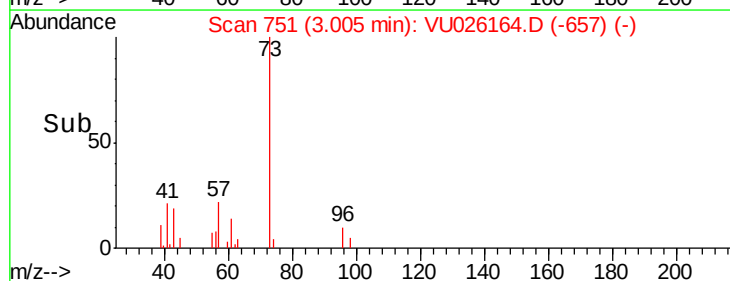
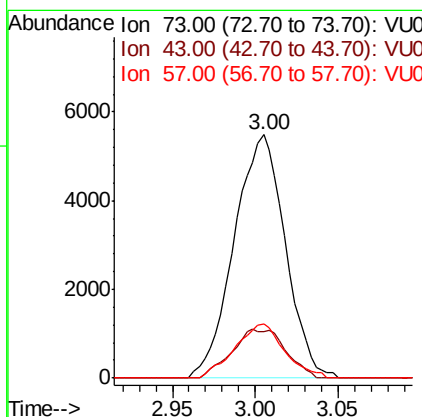
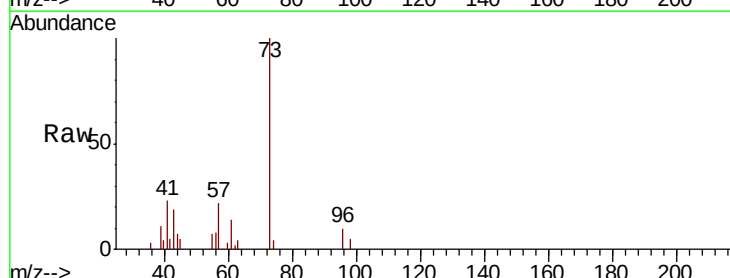
RT: 3.00 min Scan# 751

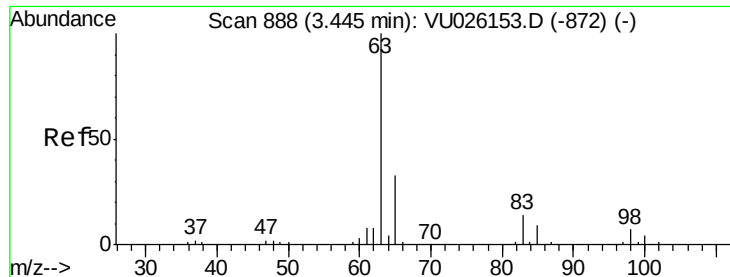
Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Tgt Ion:	73	Resp:	11769
Ion	Ratio	Lower	Upper
73	100		
43	12.9	16.2	24.4#
57	21.6	18.2	27.2





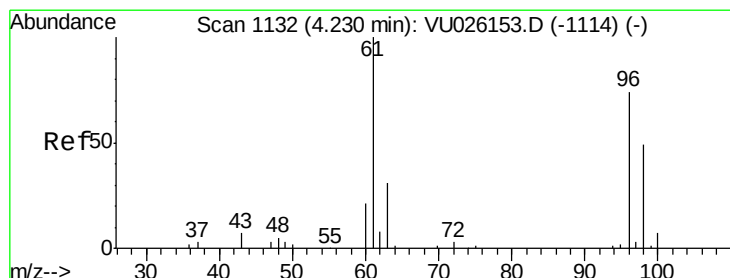
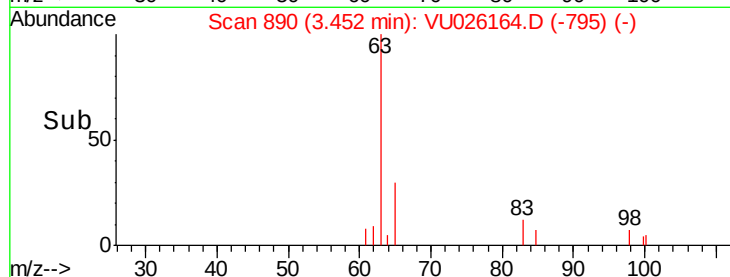
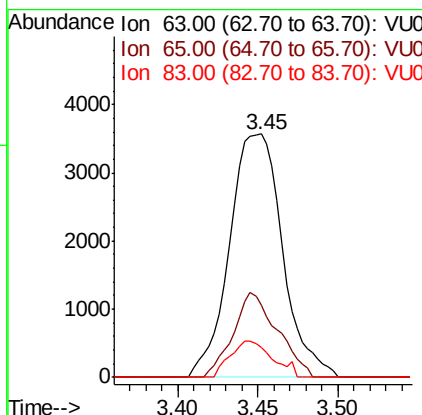
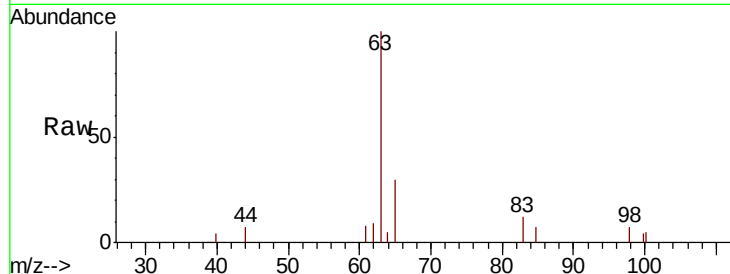
#19
 1,1-Dichloroethane
 Concen: 2.42 ug/L
 RT: 3.45 min Scan# 890
 Delta R.T. 0.01 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion:	63	Resp:	8116
Ion	Ratio	Lower	Upper
63	100		
65	29.5	22.1	41.1
83	12.2	9.4	17.4

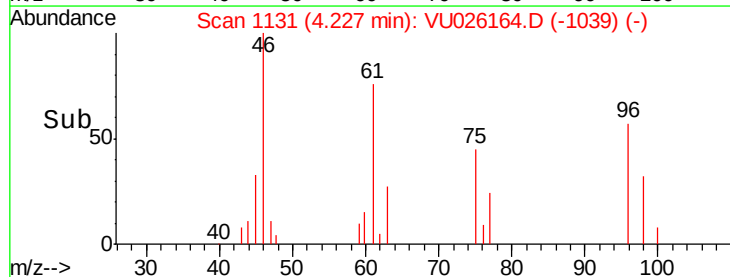
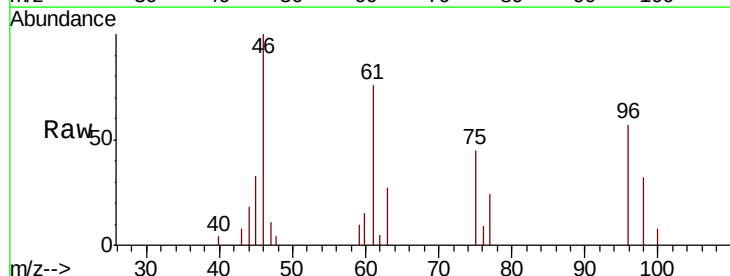
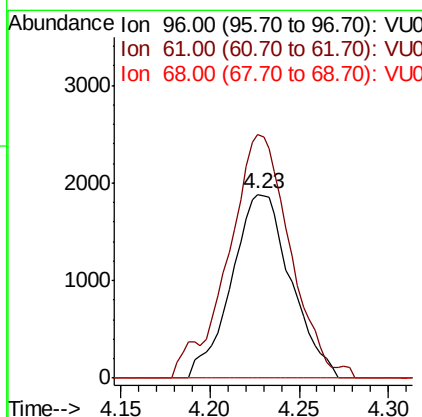
Manual Integrations
 APPROVED

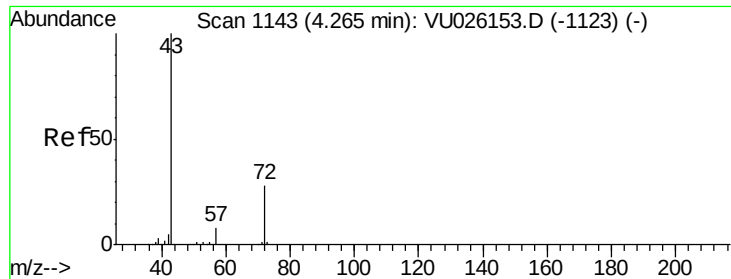
MMDadoda
 8/16/2018 4:20:26 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.24 ug/L
 RT: 4.23 min Scan# 1131
 Delta R.T. -0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Tgt Ion:	96	Resp:	4371
Ion	Ratio	Lower	Upper
96	100		
61	132.5	88.6	164.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.67 ug/L m

RT: 4.27 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 43 Resp: 6666

Ion Ratio Lower Upper

43 100

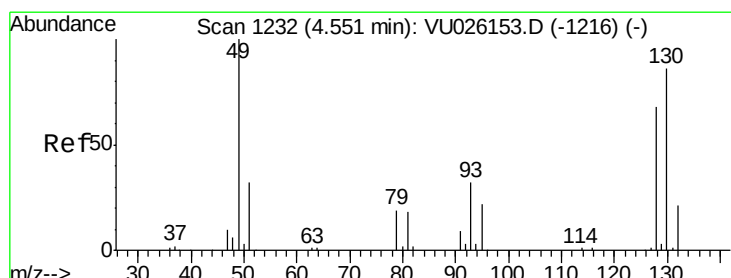
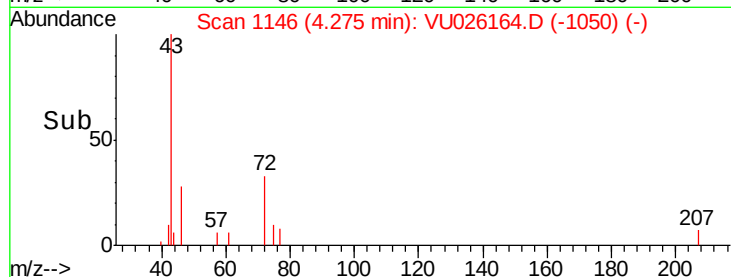
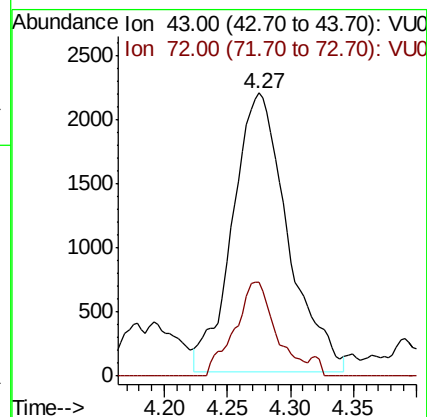
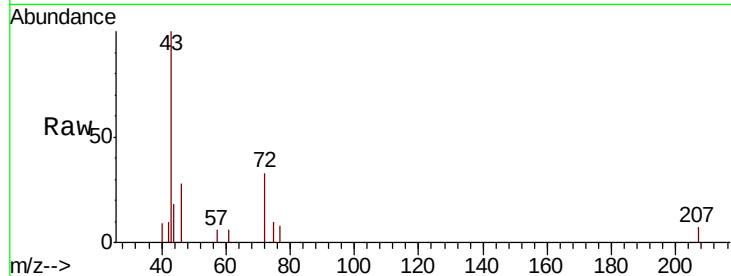
72 22.6 13.4 40.1

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:26 PM



#23

Bromochloromethane

Concen: 2.14 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Tgt Ion: 128 Resp: 2262

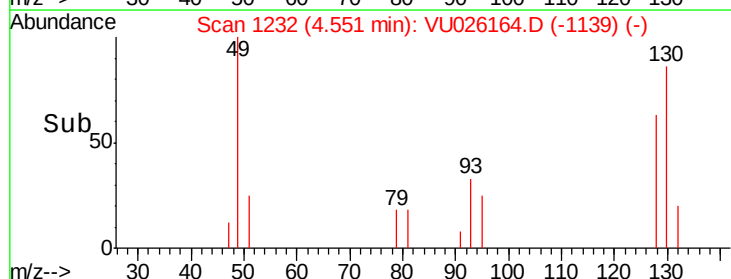
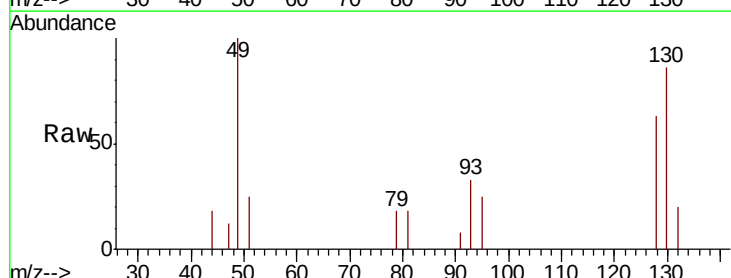
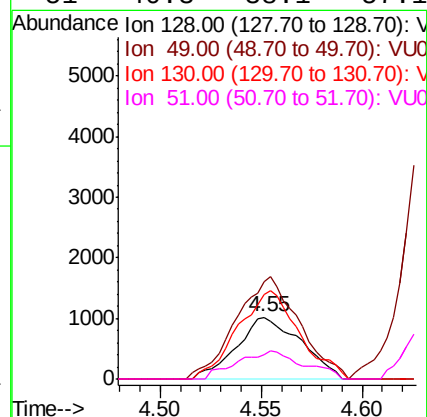
Ion Ratio Lower Upper

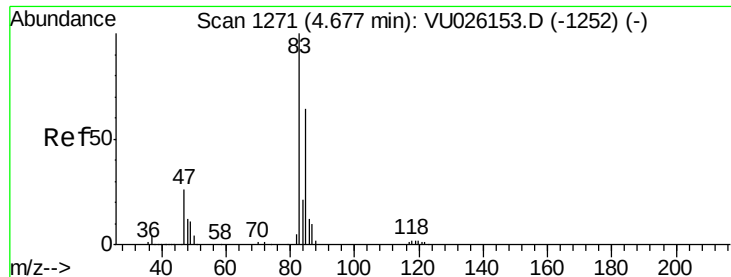
128 100

49 158.3 101.3 188.1

130 136.3 86.4 160.4

51 40.3 38.1 57.1





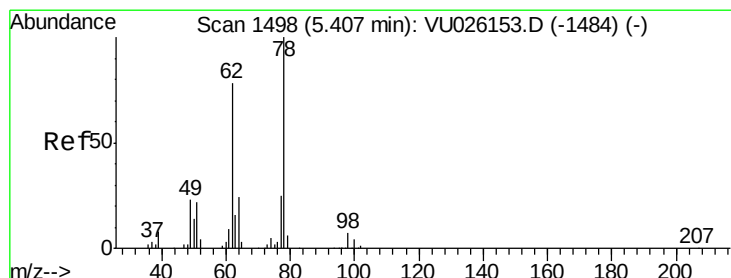
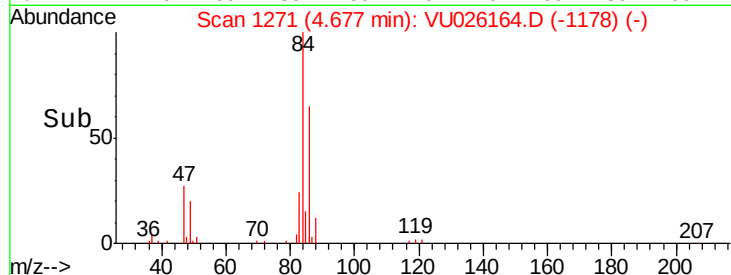
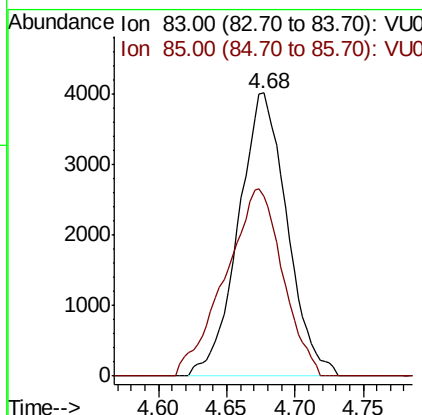
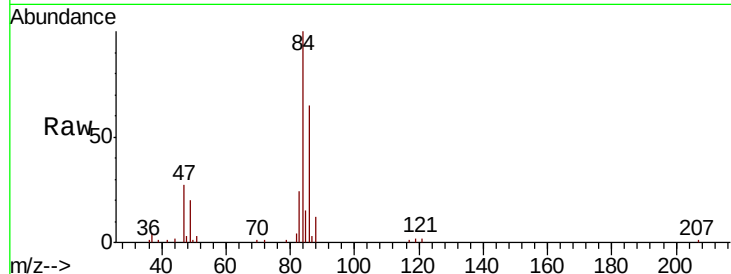
#25
Chloroform
Concen: 2.83 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU026164.D
Acq: 15 Aug 2018 22:49

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion: 83 Resp: 9959
Ion Ratio Lower Upper
83 100
85 63.5 46.3 86.1

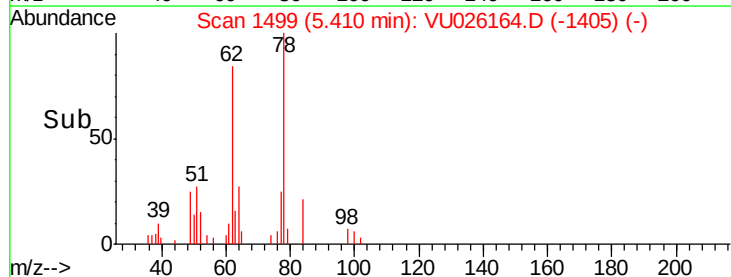
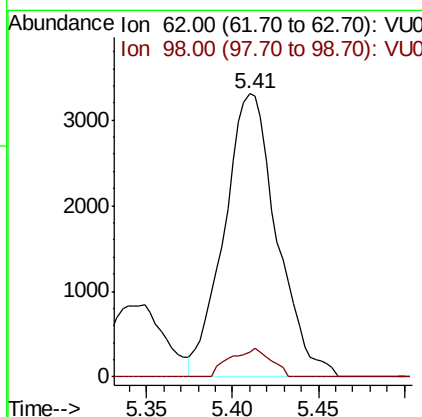
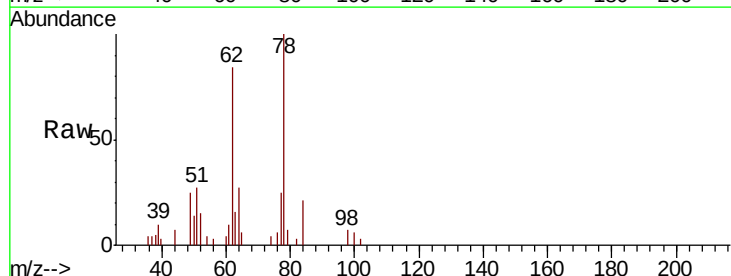
Manual Integrations
APPROVED

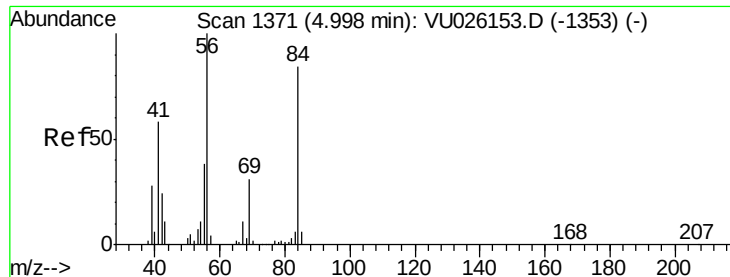
MMDadoda
8/16/2018 4:20:26 PM



#27
1,2-Dichloroethane
Concen: 2.48 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU026164.D
Acq: 15 Aug 2018 22:49

Tgt Ion: 62 Resp: 7070
Ion Ratio Lower Upper
62 100
98 8.7 7.0 10.4





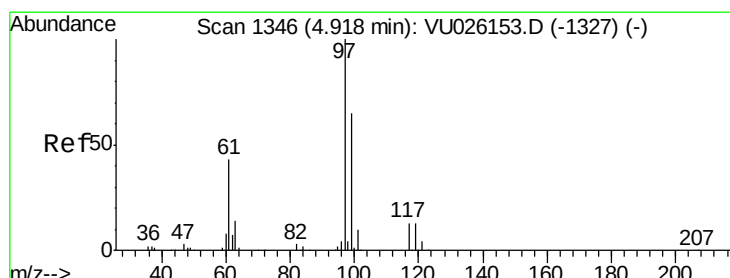
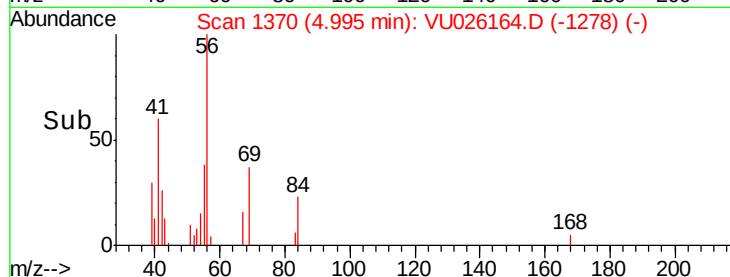
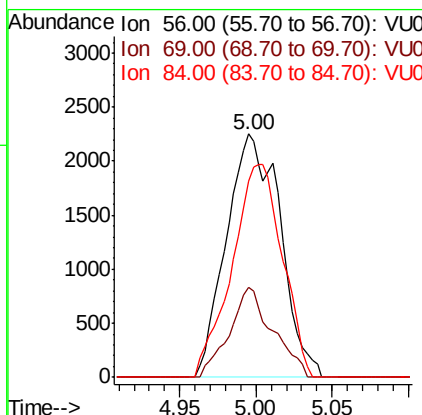
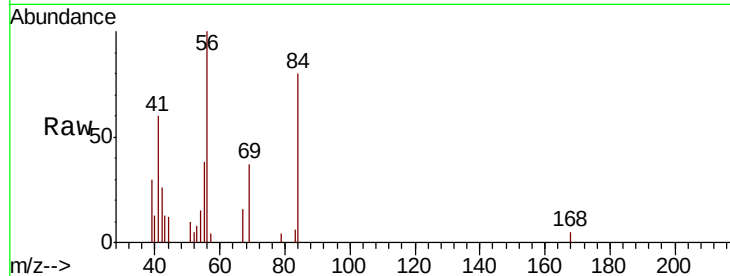
#29
Cyclohexane
Concen: 2.09 ug/L m
RT: 5.00 min Scan# 1370
Delta R.T. -0.00 min
Lab File: VU026164.D
Acq: 15 Aug 2018 22:49

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.6	24.1	36.1
84	82.4	68.6	102.8

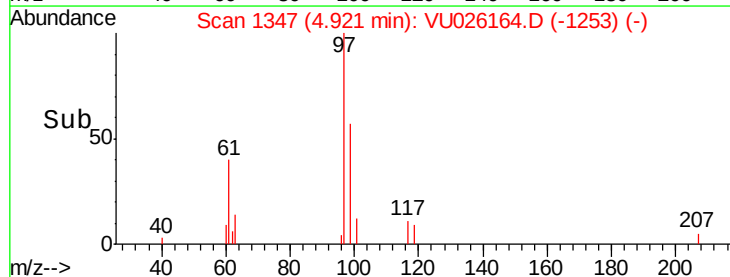
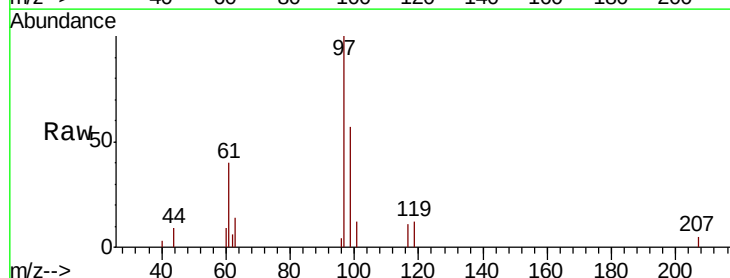
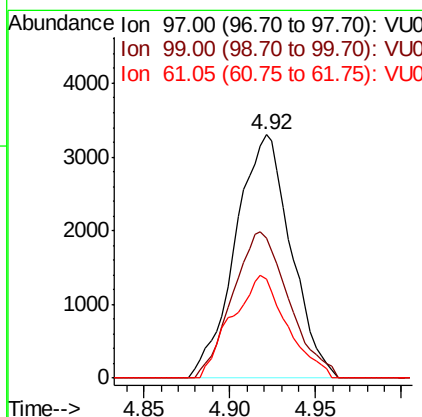
Manual Integrations
APPROVED

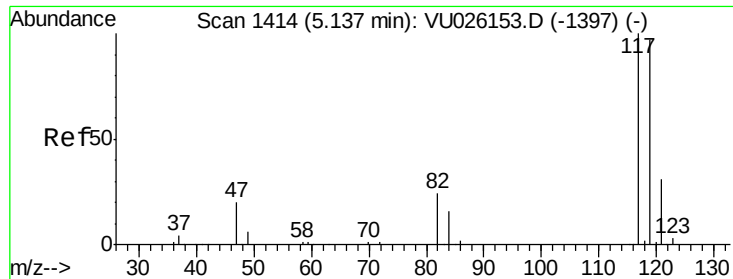
MMDadoda
8/16/2018 4:20:26 PM



#30
1,1,1-Trichloroethane
Concen: 2.35 ug/L
RT: 4.92 min Scan# 1347
Delta R.T. 0.00 min
Lab File: VU026164.D
Acq: 15 Aug 2018 22:49

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.2	52.2	78.2
61	41.9	35.4	53.0





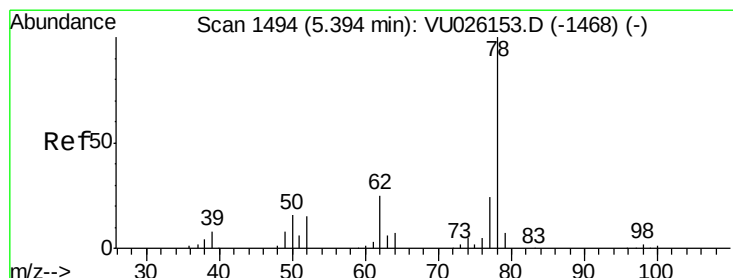
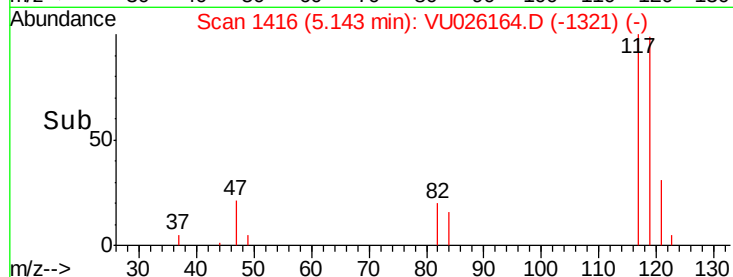
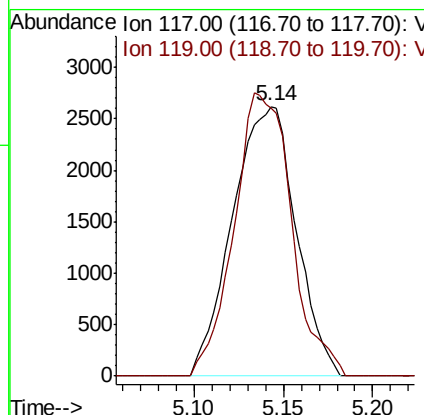
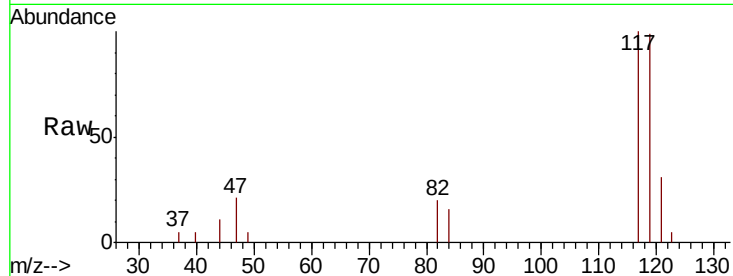
#31
 Carbon tetrachloride
 Concen: 2.29 ug/L
 RT: 5.14 min Scan# 1416
 Delta R.T. 0.01 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion: 117 Resp: 6508
 Ion Ratio Lower Upper
 117 100
 119 94.9 77.4 116.2

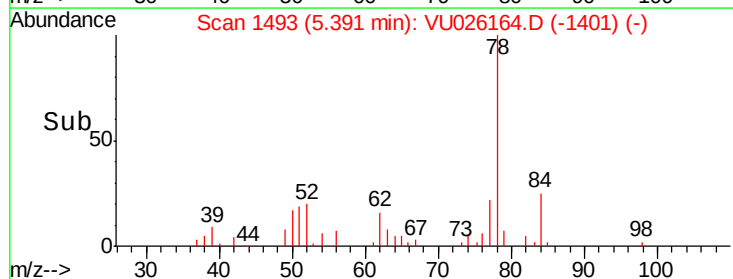
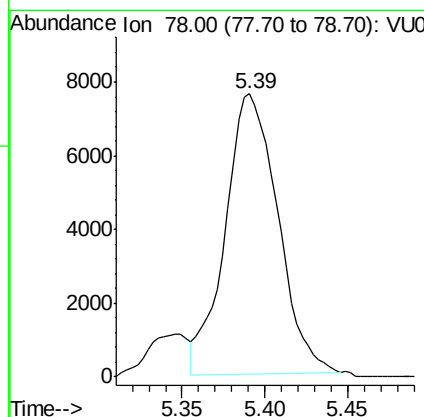
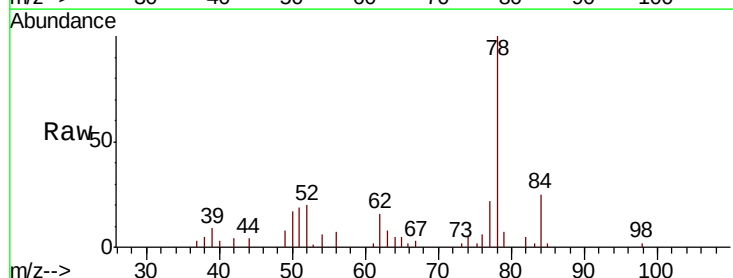
Manual Integrations
 APPROVED

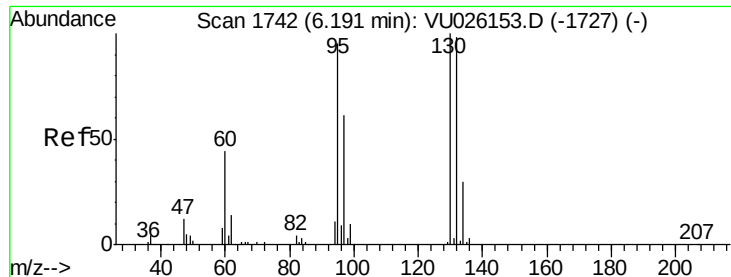
MMDadoda
 8/16/2018 4:20:26 PM



#33
 Benzene
 Concen: 2.36 ug/L
 RT: 5.39 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Tgt Ion: 78 Resp: 16807





#34

Trichloroethene

Concen: 2.20 ug/L

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Instrument :

MSVOA_U

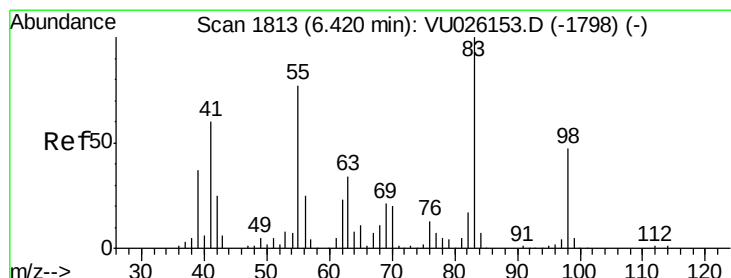
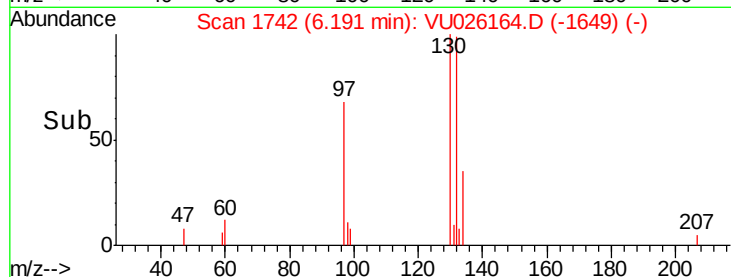
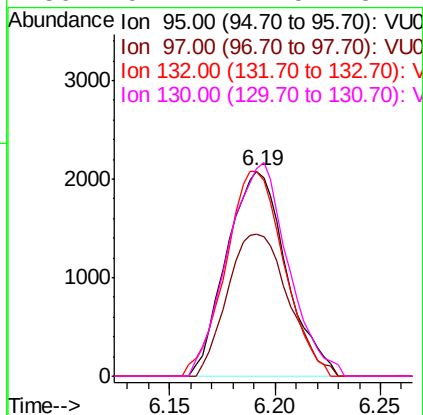
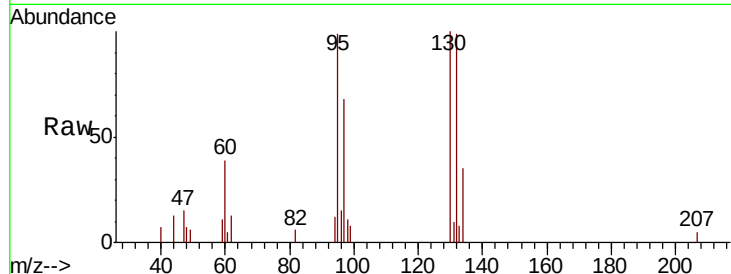
ClientSampleId :

MDL02

Tot Ion:	95	Resp:	4085
Ion	Ratio	Lower	Upper
95	100		
97	69.1	45.7	84.9
132	100.0	68.8	127.8
130	101.2	71.5	132.7

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:26 PM



#35

Methylcyclohexane

Concen: 2.06 ug/L

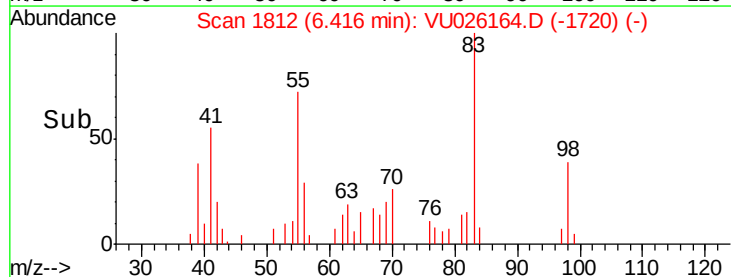
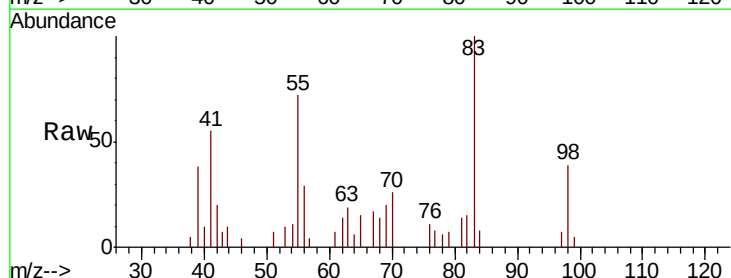
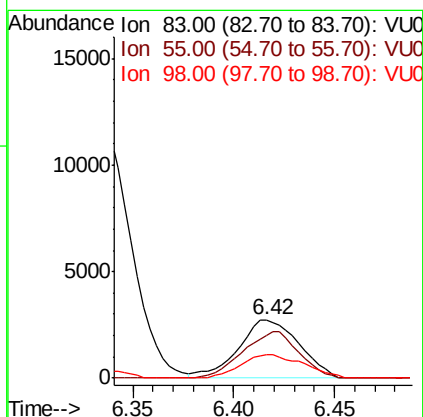
RT: 6.42 min Scan# 1812

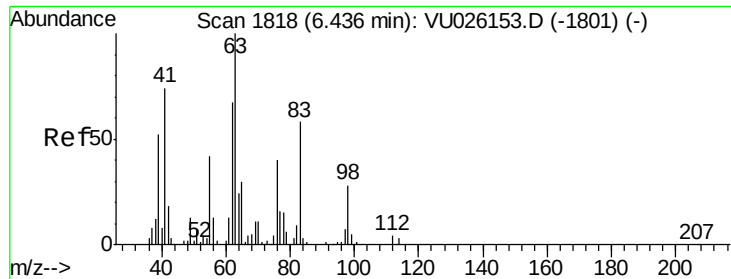
Delta R.T. -0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Tgt Ion:	83	Resp:	5736
Ion	Ratio	Lower	Upper
83	100		
55	73.5	61.0	91.6
98	41.0	37.6	56.4





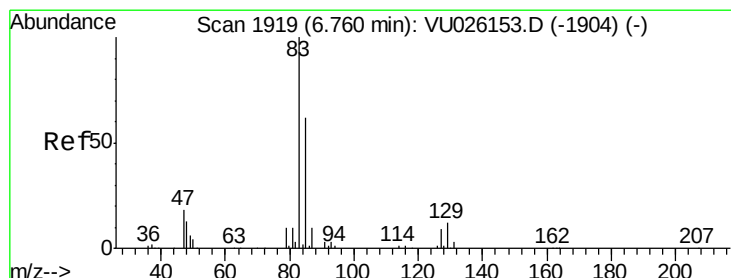
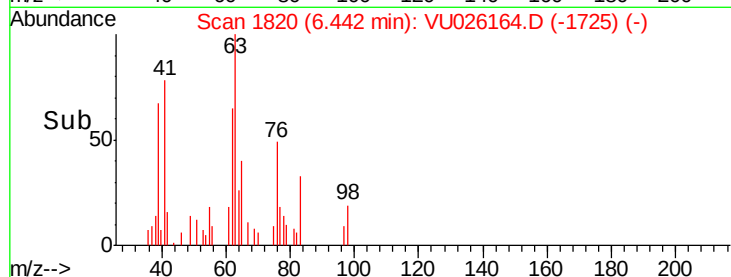
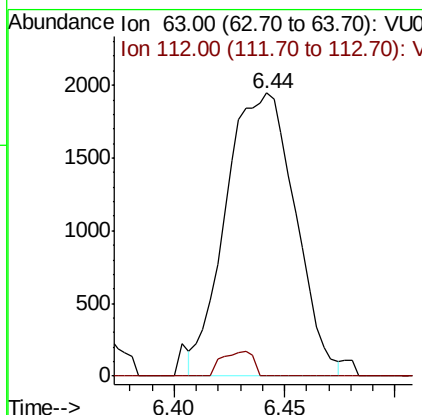
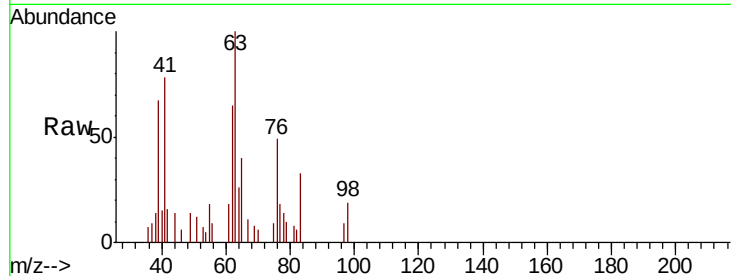
#37
 1,2-Dichloropropane
 Concen: 2.13 ug/L
 RT: 6.44 min Scan# 1820
 Delta R.T. 0.01 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion: 63 Resp: 4243
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.5 5.3

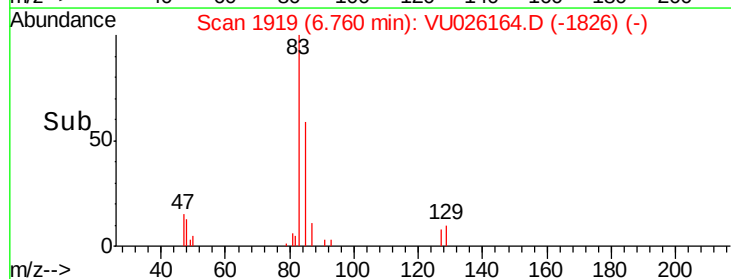
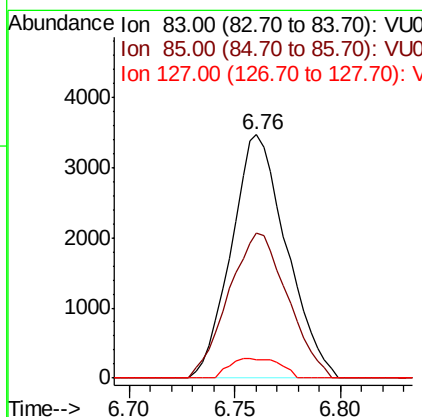
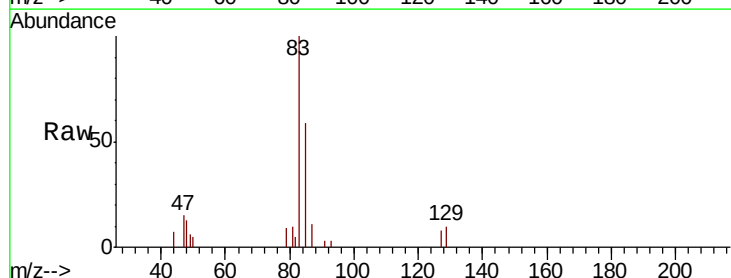
Manual Integrations
 APPROVED

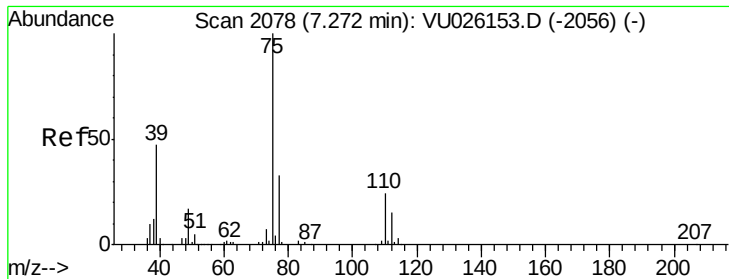
MMDadoda
 8/16/2018 4:20:26 PM



#38
 Bromodichloromethane
 Concen: 2.39 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Tgt Ion: 83 Resp: 6304
 Ion Ratio Lower Upper
 83 100
 85 59.5 46.0 85.4
 127 7.5 7.5 11.3#





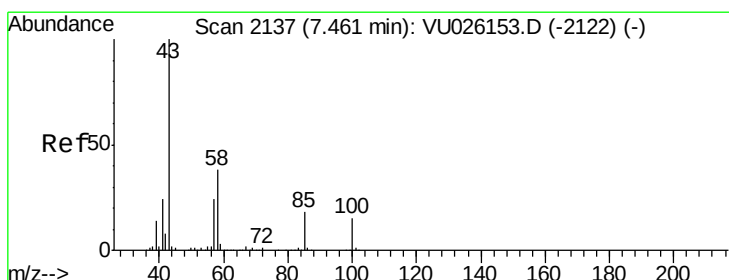
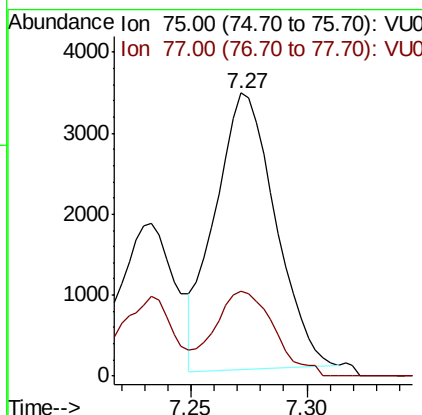
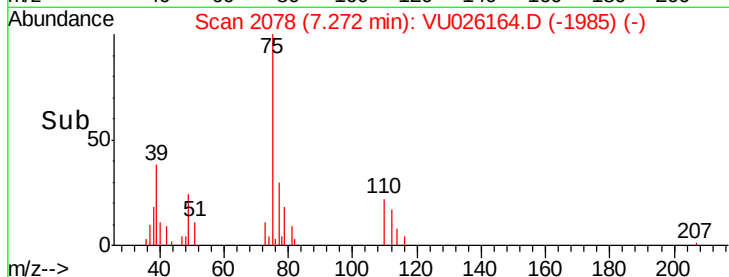
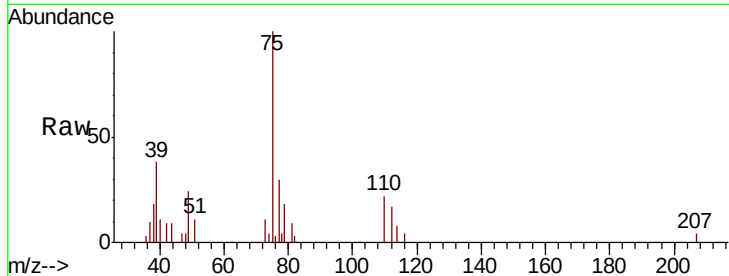
#39
 cis-1,3-Dichloropropene
 Concen: 2.08 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion: 75 Resp: 6136
 Ion Ratio Lower Upper
 75 100
 77 30.0 22.2 41.2

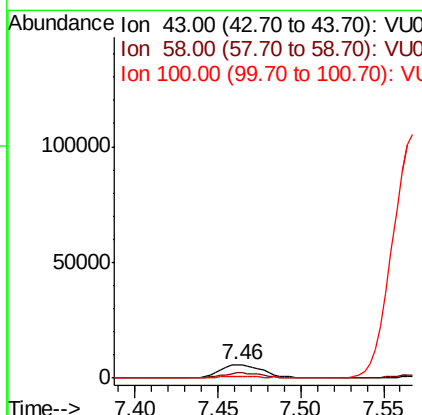
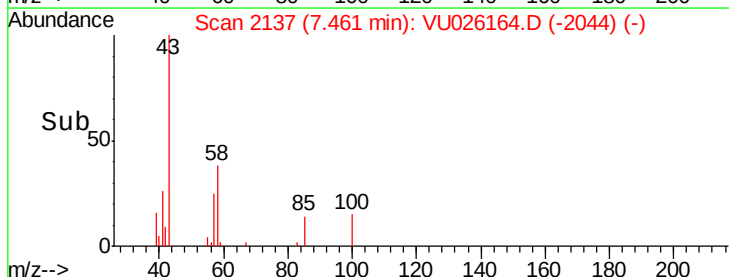
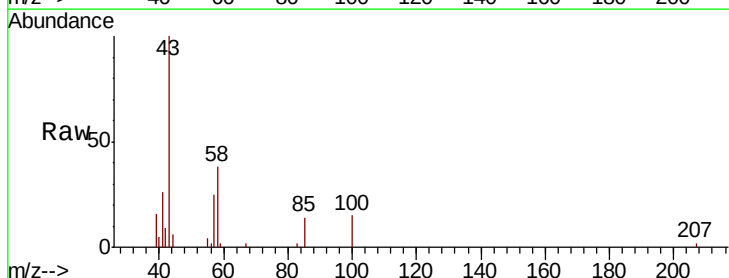
Manual Integrations
 APPROVED

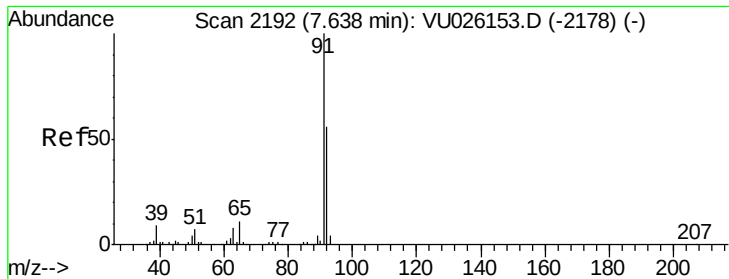
MMDadoda
 8/16/2018 4:20:26 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.31 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Tgt Ion: 43 Resp: 10630
 Ion Ratio Lower Upper
 43 100
 58 36.2 31.8 47.8
 100 13.6 12.2 18.2





#42

Toluene

Concen: 2.27 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 91 Resp: 17186

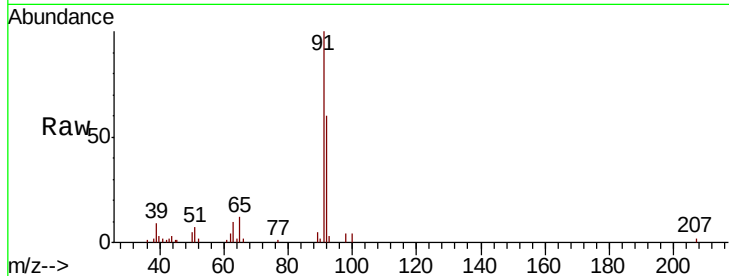
Ion Ratio Lower Upper

91 100

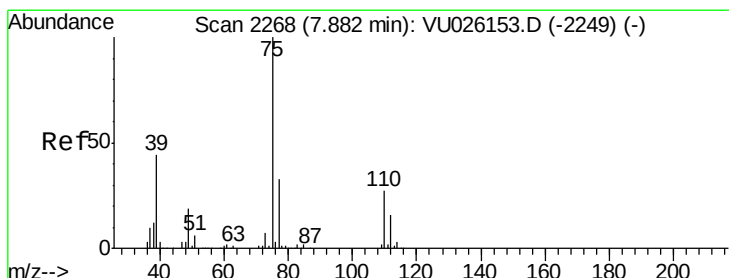
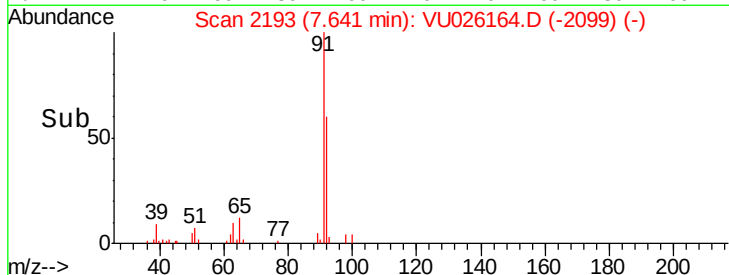
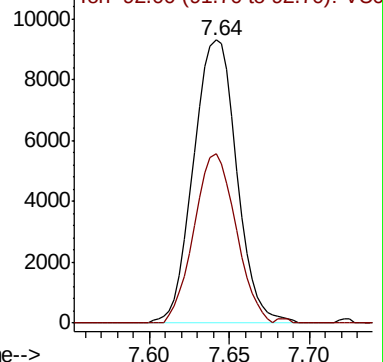
92 59.8 40.0 74.4

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:26 PM



Abundance Ion 91.00 (90.70 to 91.70): VU026153.D (-2178) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.27 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU026164.D

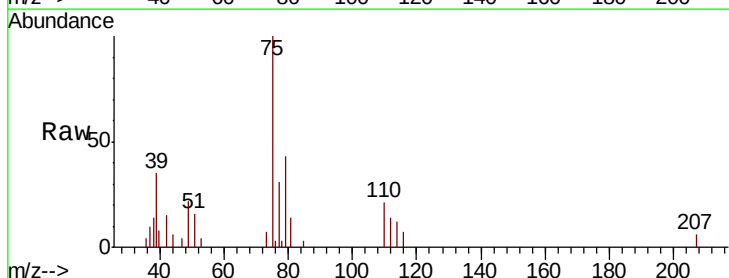
Acq: 15 Aug 2018 22:49

Tgt Ion: 75 Resp: 6468

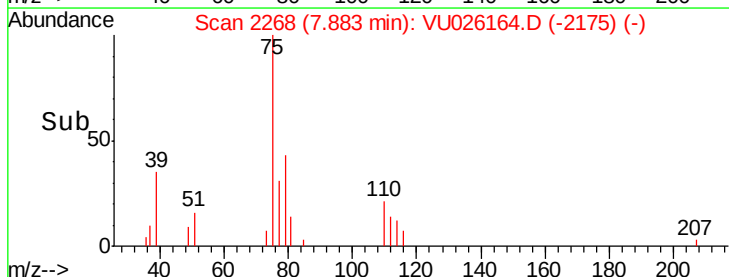
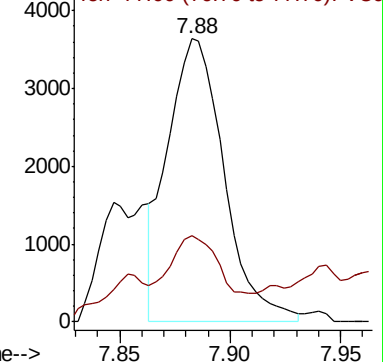
Ion Ratio Lower Upper

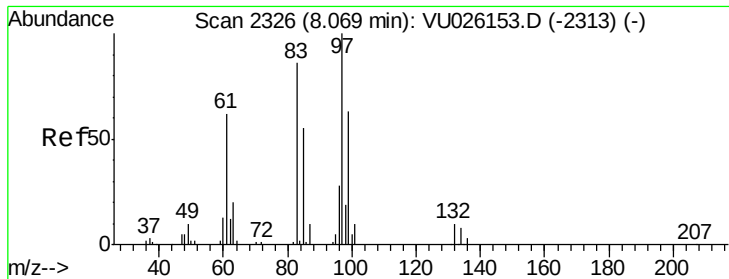
75 100

77 30.5 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VU026153.D (-2249) (-)





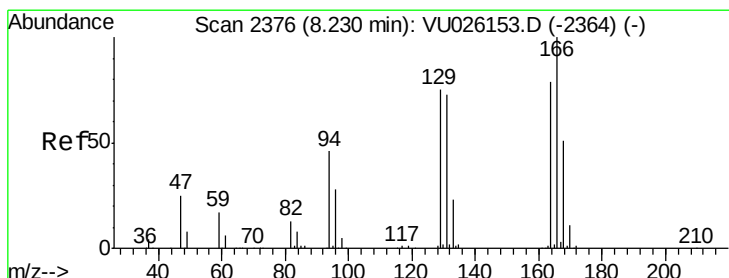
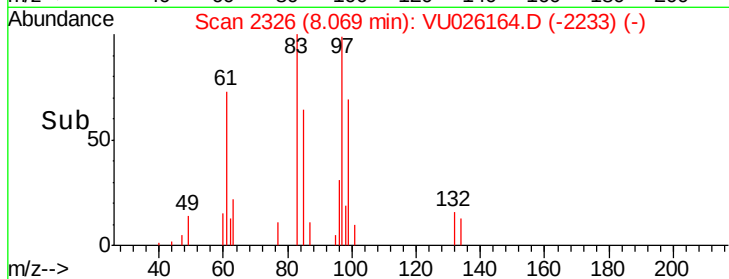
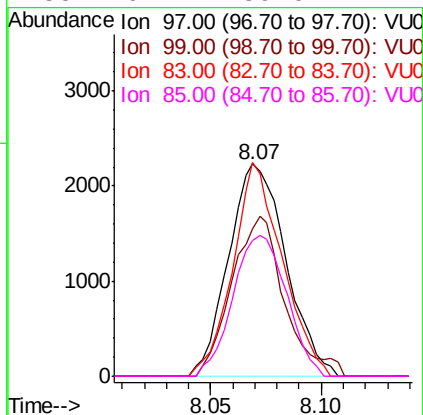
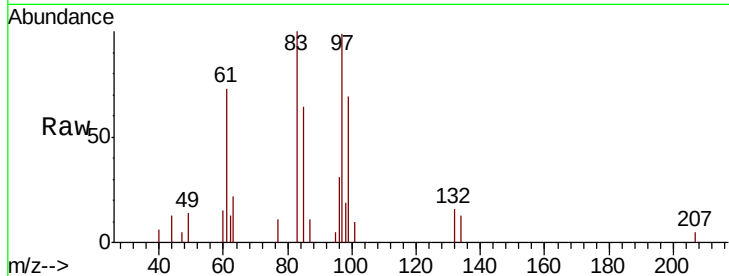
#45
 1,1,2-Trichloroethane
 Concen: 2.14 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. 0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion:	97	Resp:	4026
Ion	Ratio	Lower	Upper
97	100		
99	69.3	43.3	80.5
83	100.8	58.4	108.6
85	64.1	39.0	72.4

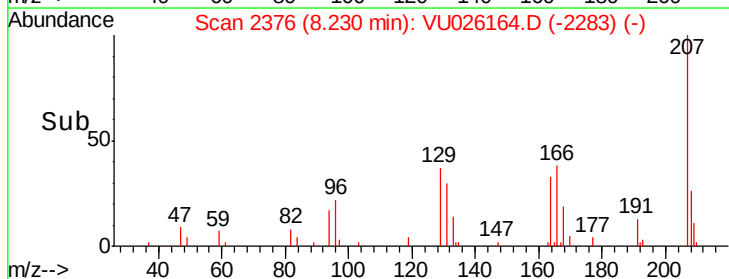
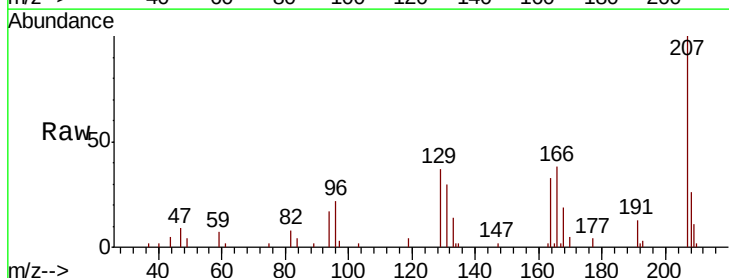
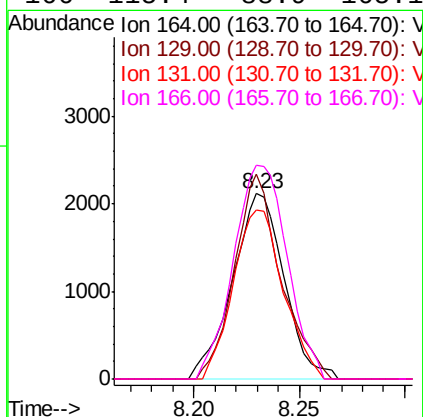
Manual Integrations
 APPROVED

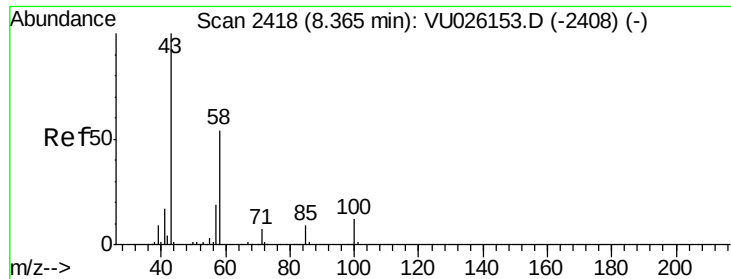
MMDadoda
 8/16/2018 4:20:26 PM



#46
 Tetrachloroethene
 Concen: 2.25 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. 0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Tgt Ion:	164	Resp:	3606
Ion	Ratio	Lower	Upper
164	100		
129	110.7	65.7	121.9
131	91.4	62.0	115.2
166	115.4	88.9	165.1





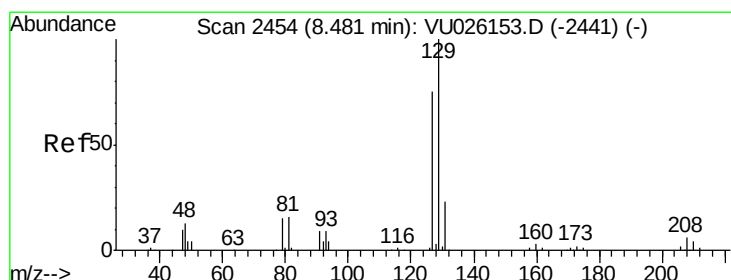
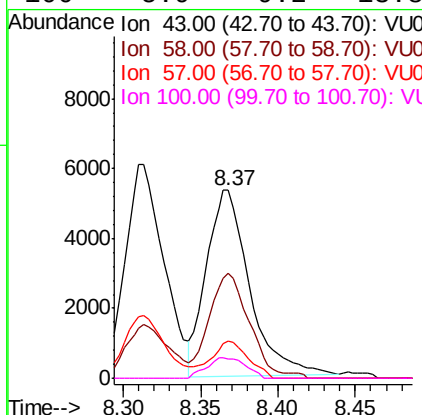
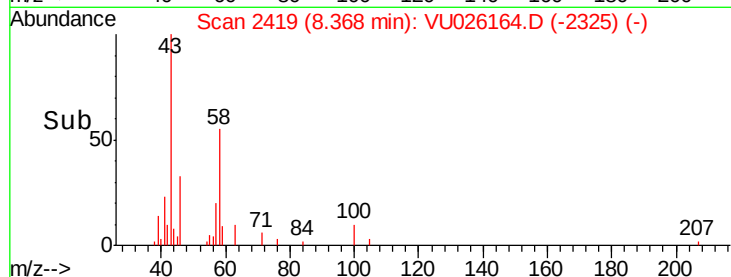
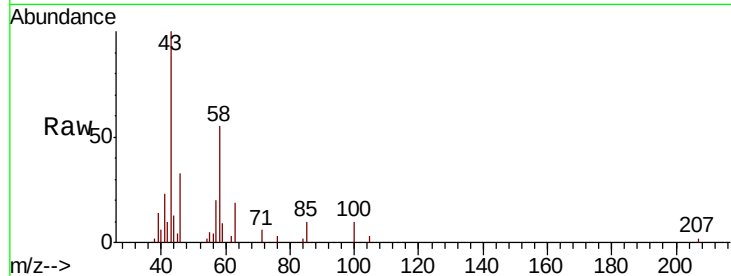
#48
2-Hexanone
Concen: 5.32 ug/L
RT: 8.37 min Scan# 2419
Delta R.T. 0.00 min
Lab File: VU026164.D
Acq: 15 Aug 2018 22:49

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.6	42.9	64.3
57	17.0	15.1	22.7
100	5.9	9.2	13.8

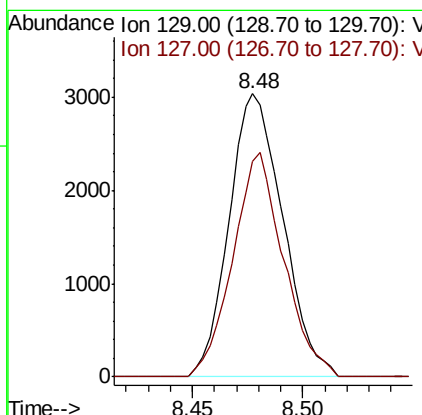
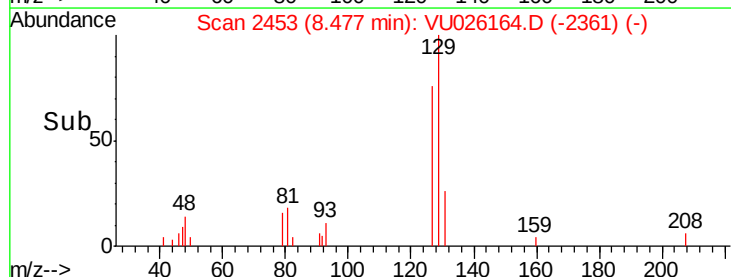
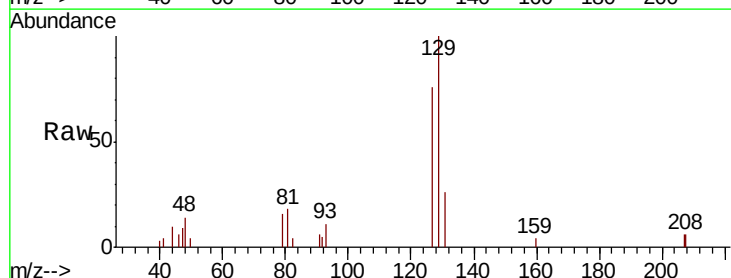
Manual Integrations
APPROVED

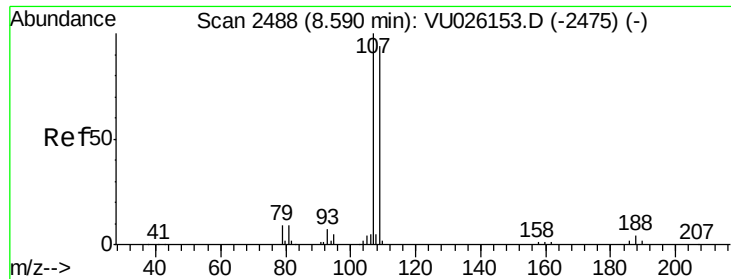
MMDadoda
8/16/2018 4:20:26 PM



#49
Dibromochloromethane
Concen: 2.26 ug/L
RT: 8.48 min Scan# 2453
Delta R.T. -0.00 min
Lab File: VU026164.D
Acq: 15 Aug 2018 22:49

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.1	54.6	101.4





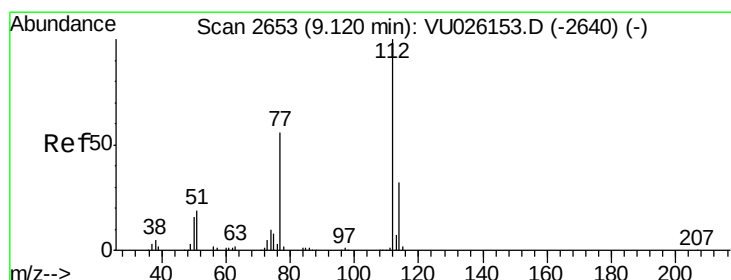
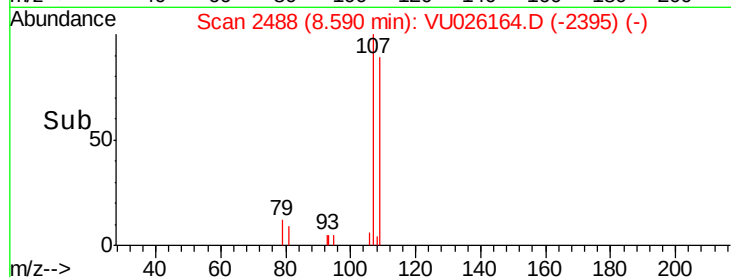
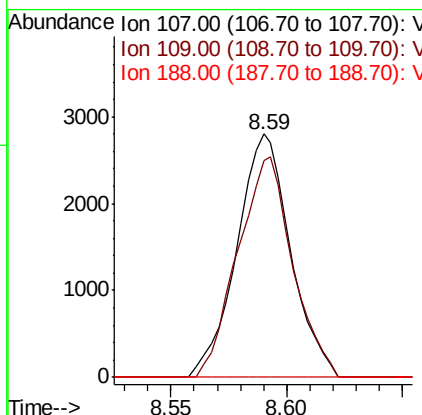
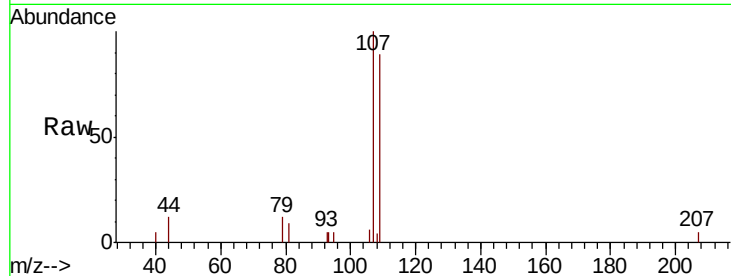
#50
 1,2-Dibromoethane
 Concen: 2.30 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. 0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
107	100		
109	89.1	66.1	122.7
188	0.0	3.2	4.8#

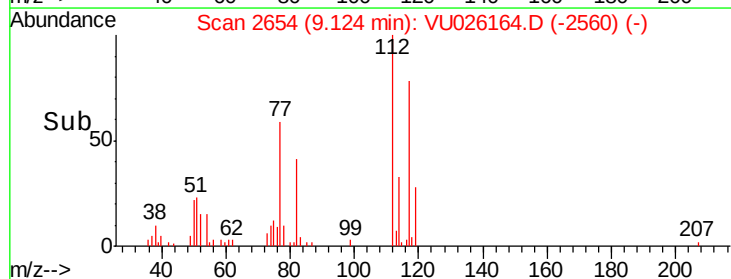
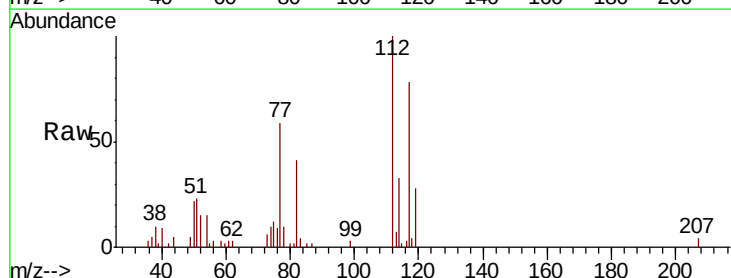
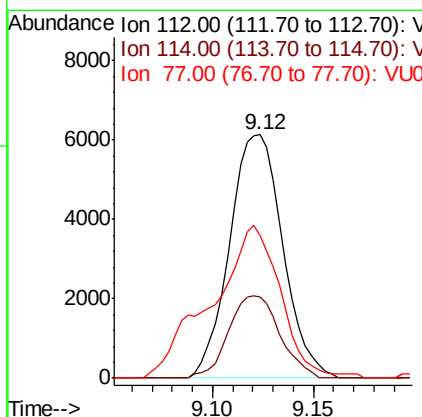
Manual Integrations
 APPROVED

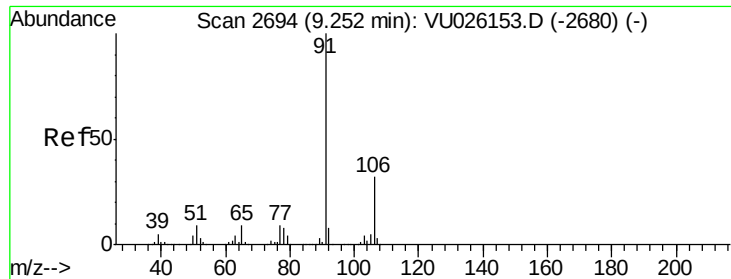
MMDadoda
 8/16/2018 4:20:26 PM



#51
 Chlorobenzene
 Concen: 2.19 ug/L
 RT: 9.12 min Scan# 2654
 Delta R.T. 0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.1	22.5	41.9
77	58.8	45.0	67.4





#52

Ethylbenzene

Concen: 2.01 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Instrument :

MSVOA_U

ClientSampled :

MDL02

Tot Ion: 91 Resp: 16545

Ion Ratio Lower Upper

91 100

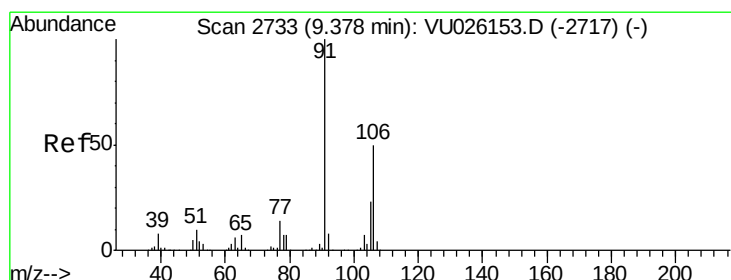
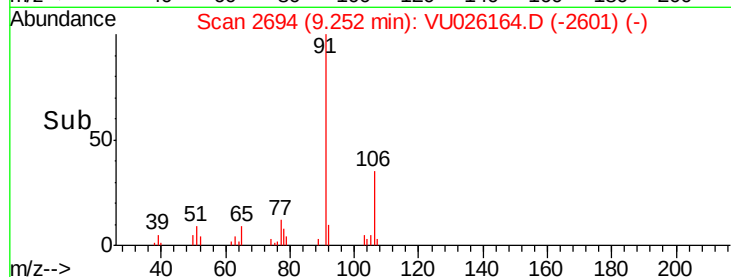
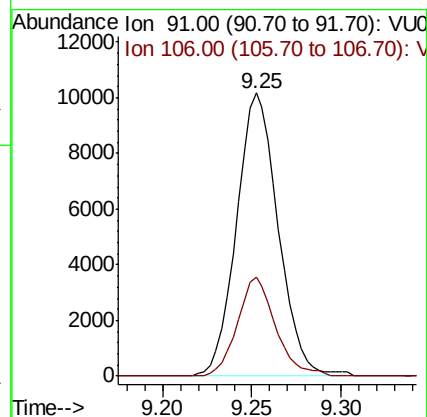
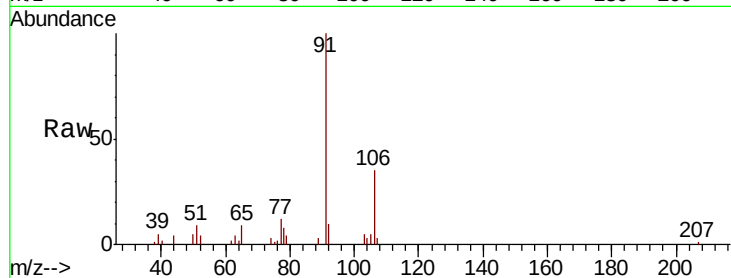
106 35.0 22.3 41.5

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:26 PM



#53

m,p-Xylene

Concen: 1.87 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU026164.D

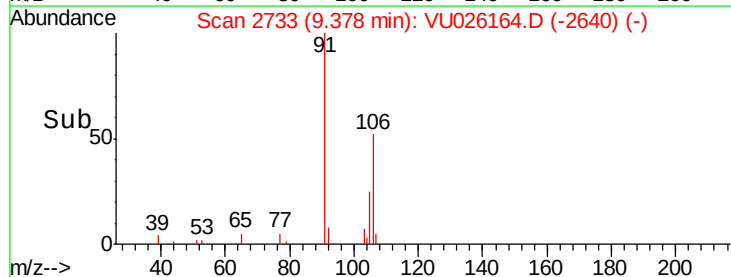
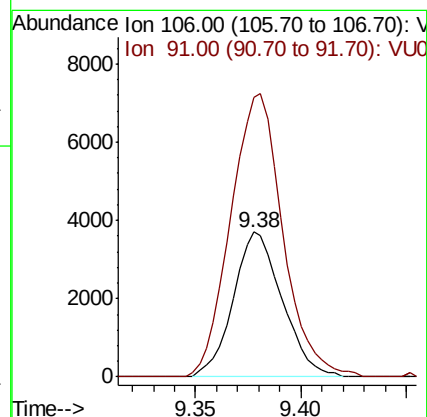
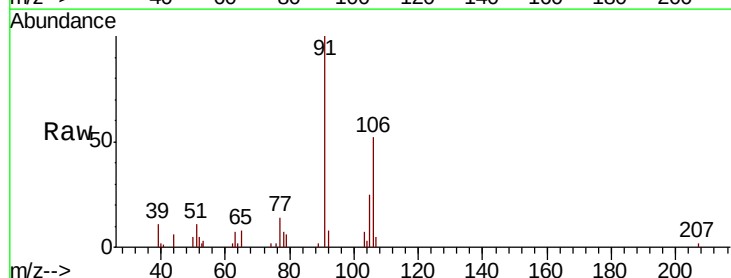
Acq: 15 Aug 2018 22:49

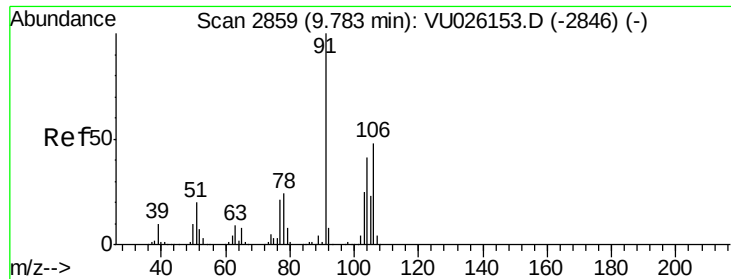
Tgt Ion: 106 Resp: 5950

Ion Ratio Lower Upper

106 100

91 192.5 139.2 258.4





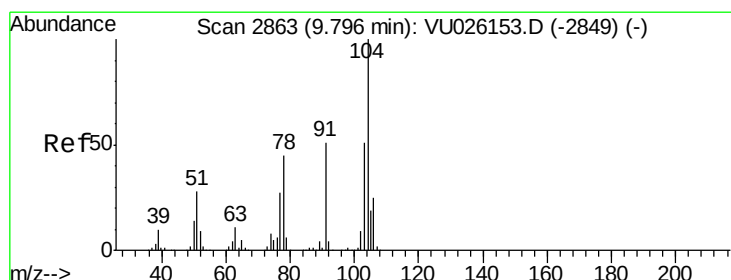
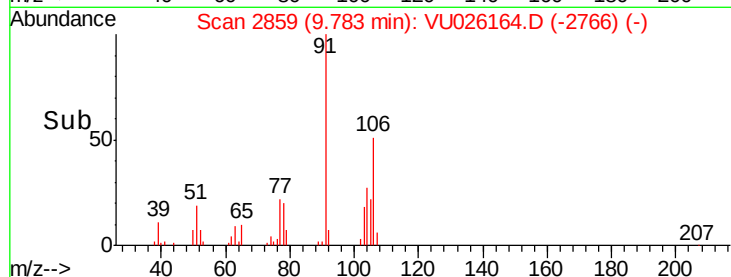
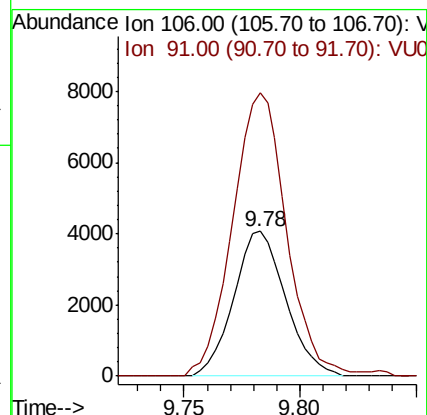
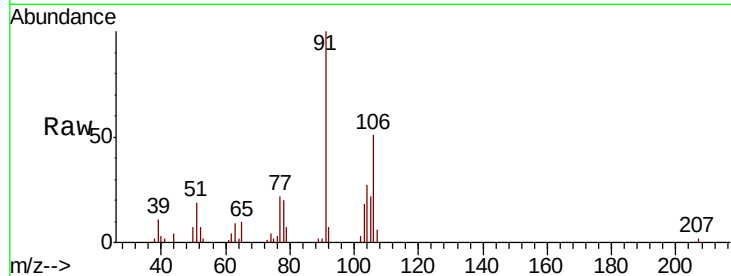
#54
o-xylene
Concen: 2.00 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU026164.D
Acq: 15 Aug 2018 22:49

Instrument :
MSVOA_U
ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
106	100		
91	195.5	148.0	274.8

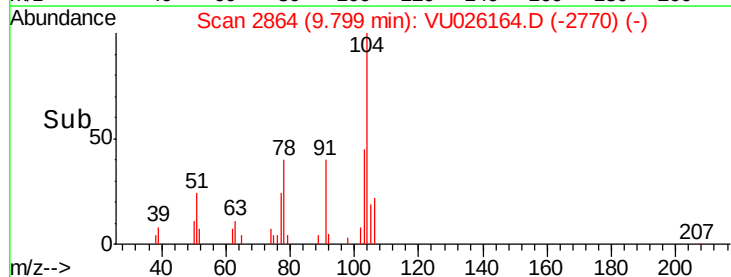
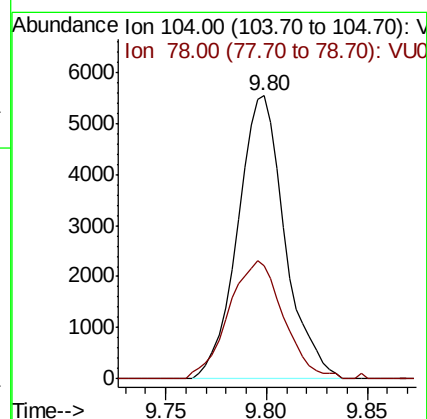
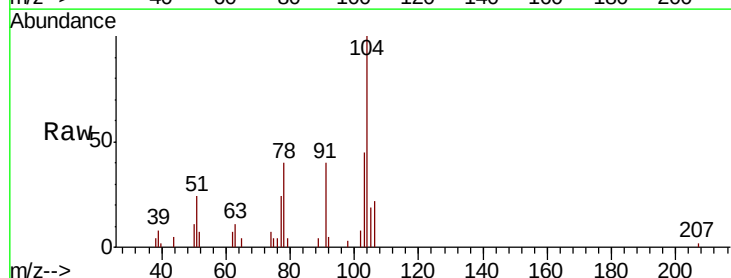
Manual Integrations
APPROVED

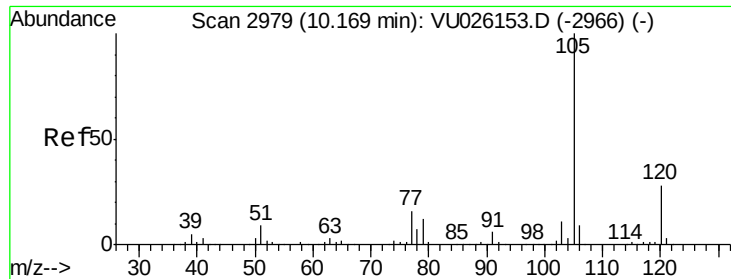
MMDadoda
8/16/2018 4:20:26 PM



#55
Styrene
Concen: 1.72 ug/L
RT: 9.80 min Scan# 2864
Delta R.T. 0.00 min
Lab File: VU026164.D
Acq: 15 Aug 2018 22:49

Tgt Ion	Ratio	Lower	Upper
104	100		
78	40.2	30.9	57.5





#56

Isopropylbenzene

Concen: 1.68 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Instrument :

MSVOA_U

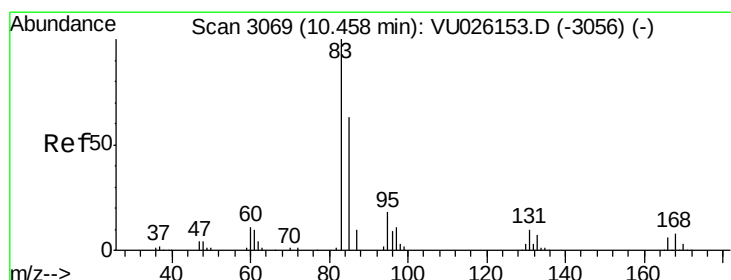
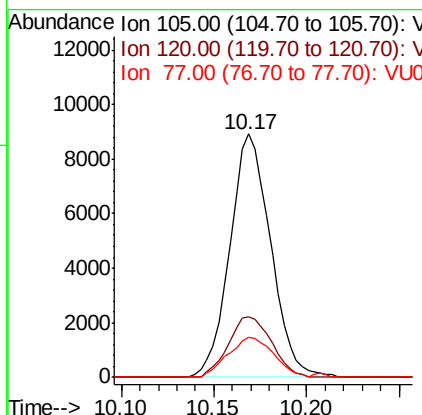
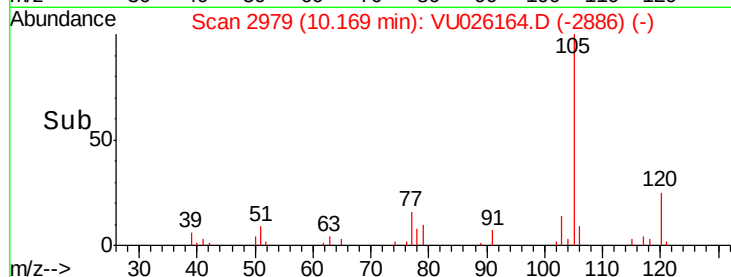
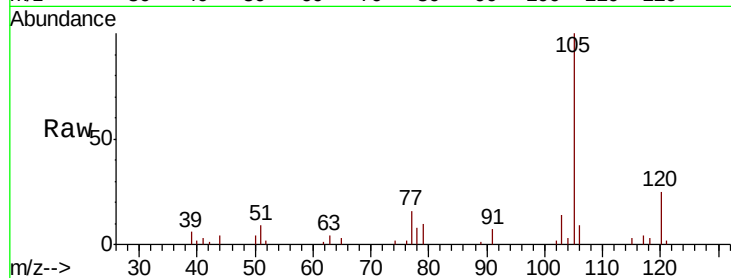
ClientSampled :

MDL02

Tot Ion:	105	Resp:	13631
Ion Ratio	Lower	Upper	
105	100		
120	26.2	21.5	32.3
77	18.1	12.3	18.5

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:26 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 2.35 ug/L

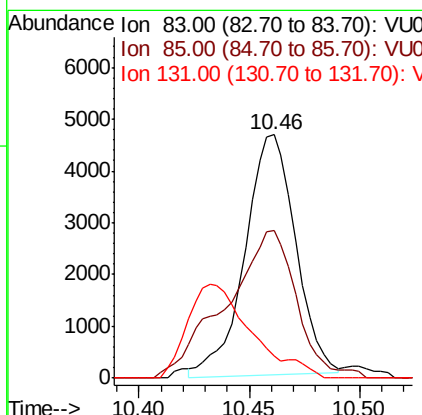
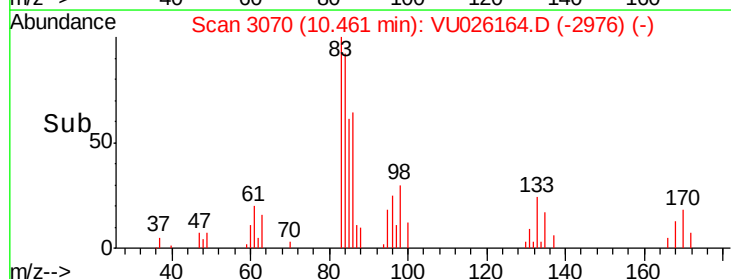
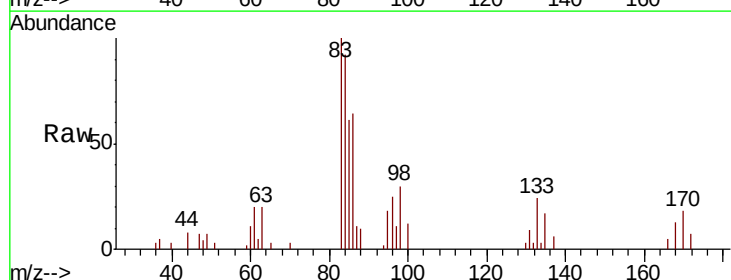
RT: 10.46 min Scan# 3070

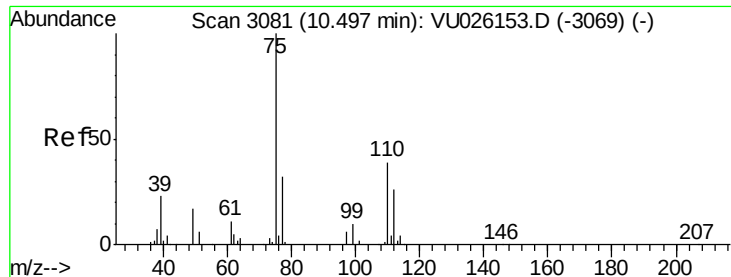
Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Tgt Ion:	83	Resp:	7400
Ion Ratio	Lower	Upper	
83	100		
85	60.7	45.0	83.6
131	9.1	8.4	12.6





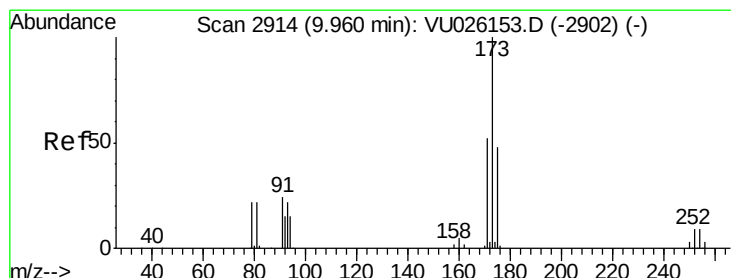
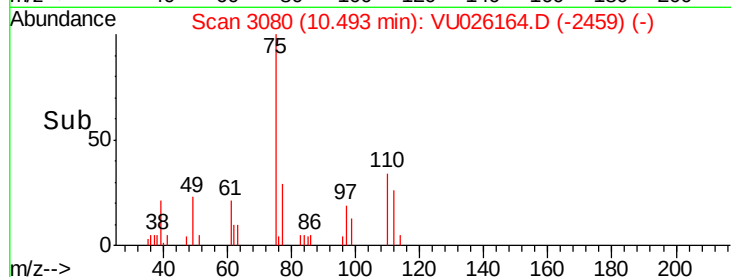
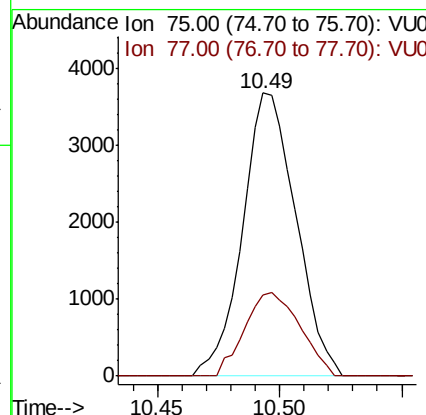
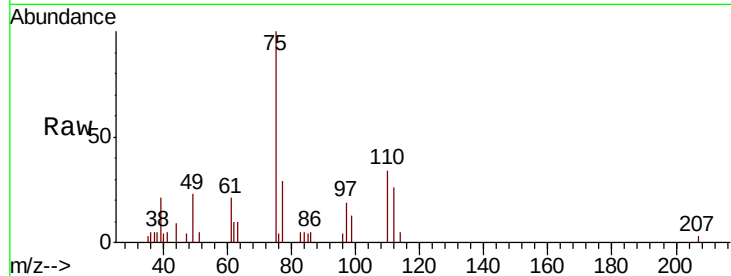
#59
 1,2,3-Trichloropropane
 Concen: 2.28 ug/L
 RT: 10.49 min Scan# 3080
 Delta R.T. -0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion: 75 Resp: 5578
 Ion Ratio Lower Upper
 75 100
 77 30.7 26.1 39.1

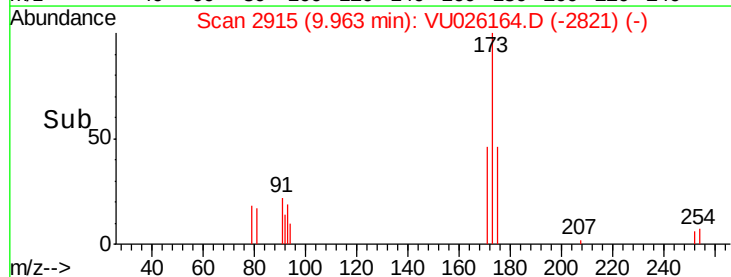
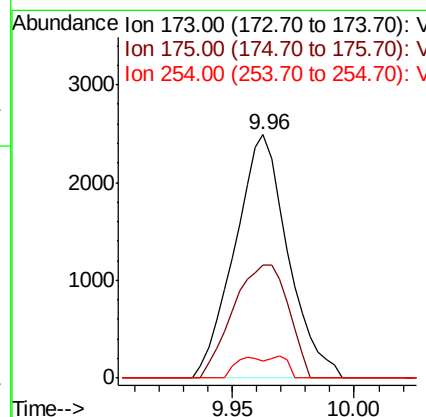
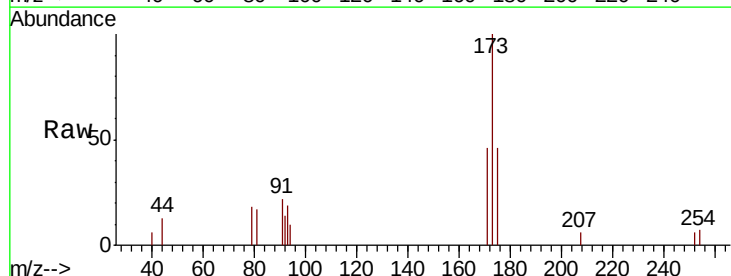
Manual Integrations
 APPROVED

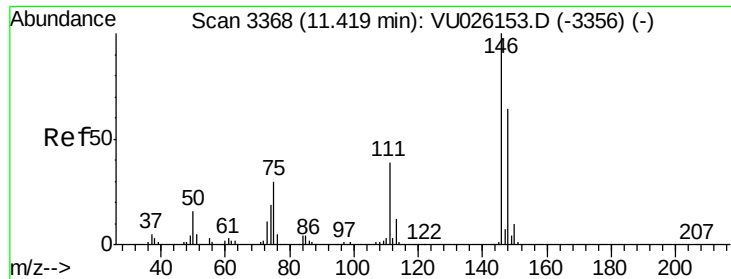
MMDadoda
 8/16/2018 4:20:26 PM



#61
 Bromoform
 Concen: 2.56 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Tgt Ion: 173 Resp: 3760
 Ion Ratio Lower Upper
 173 100
 175 48.5 38.8 58.2
 254 3.1 7.3 10.9#





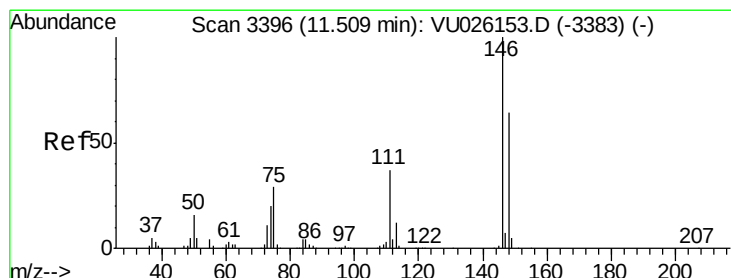
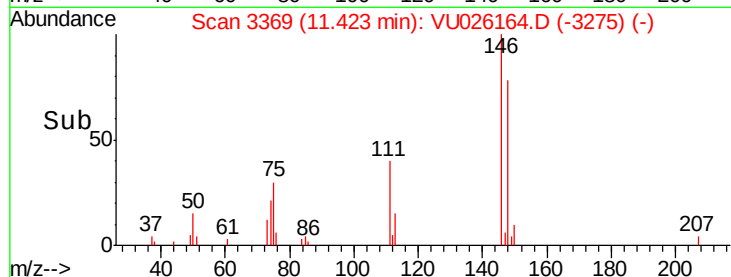
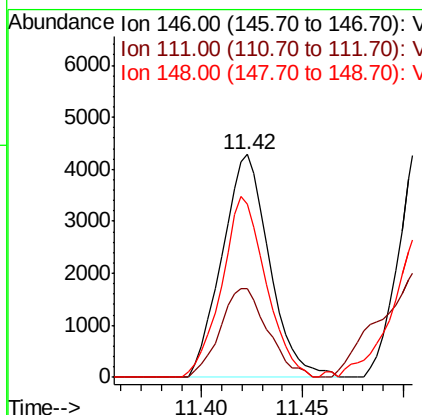
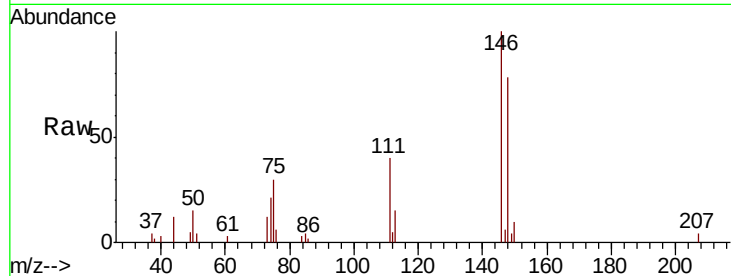
#62
 1,3-Dichlorobenzene
 Concen: 2.08 ug/L
 RT: 11.42 min Scan# 3369
 Delta R.T. 0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	26.7	49.7
148	77.9	44.1	81.9

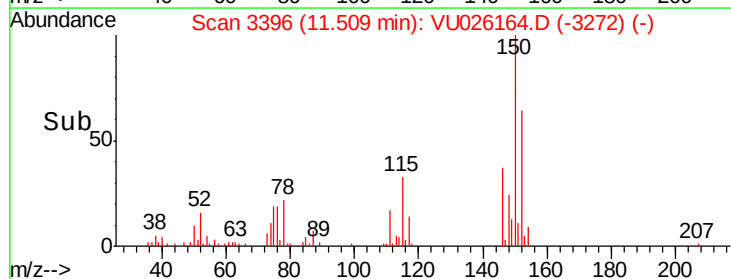
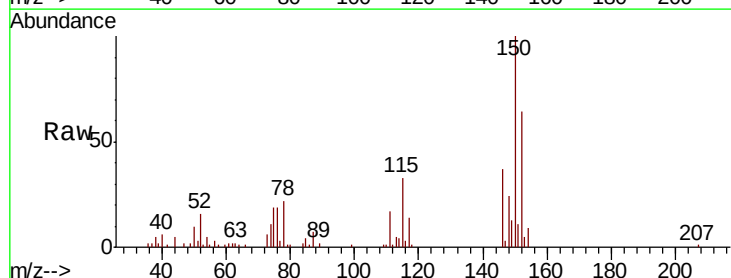
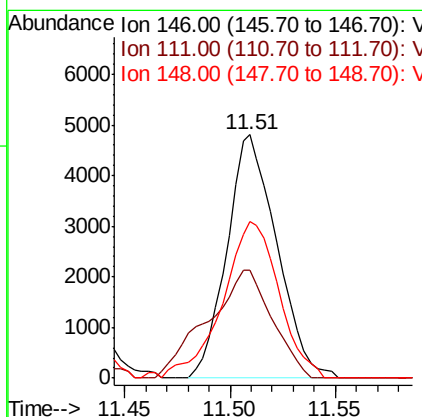
Manual Integrations
 APPROVED

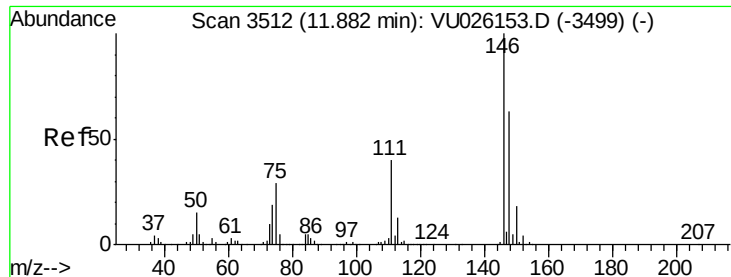
MMDadoda
 8/16/2018 4:20:26 PM



#63
 1,4-Dichlorobenzene
 Concen: 2.26 ug/L
 RT: 11.51 min Scan# 3396
 Delta R.T. 0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.5	27.5	51.1
148	64.2	44.8	83.2





#65

1,2-Dichlorobenzene

Concen: 2.45 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Instrument :

MSVOA_U

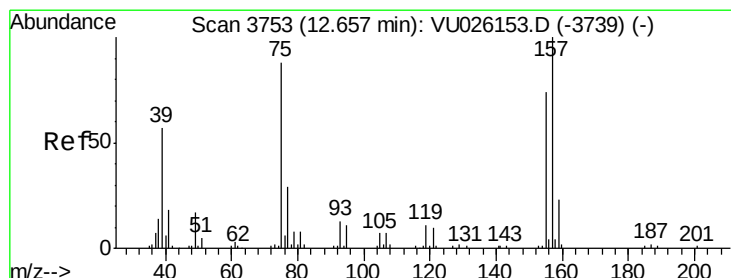
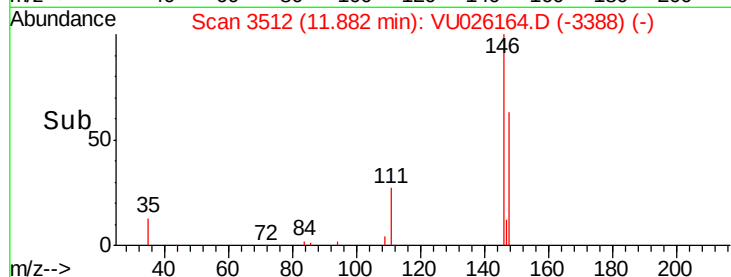
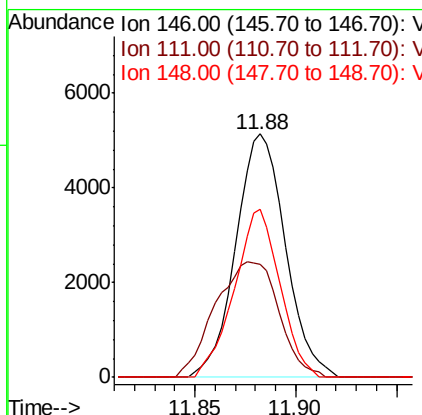
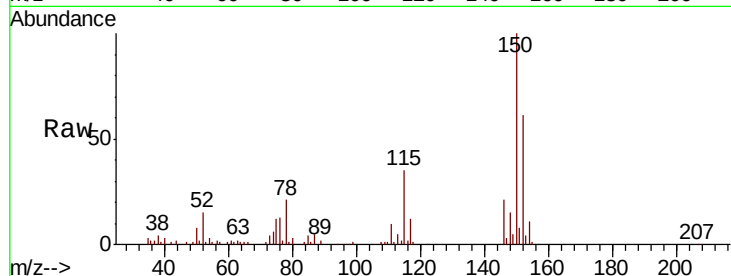
ClientSampled :

MDL02

Tot Ion:	146	Resp:	8847
Ion	Ratio	Lower	Upper
146	100		
111	46.3	32.7	49.1
148	69.0	51.4	77.2

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:26 PM



#66

1,2-Dibromo-3-chloropropane

Concen: 2.29 ug/L

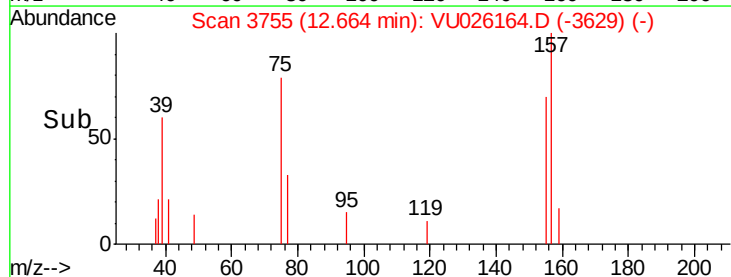
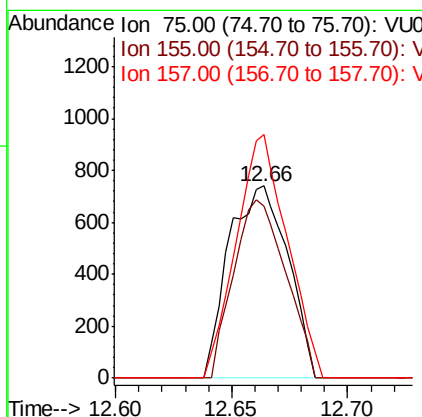
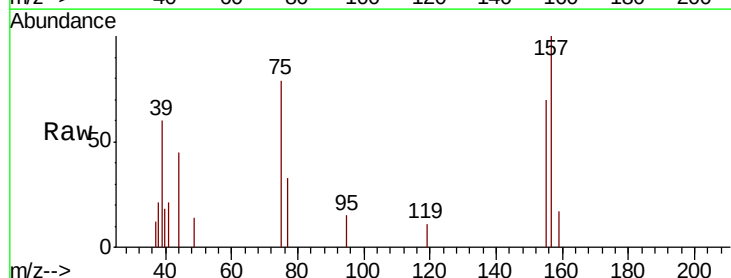
RT: 12.66 min Scan# 3755

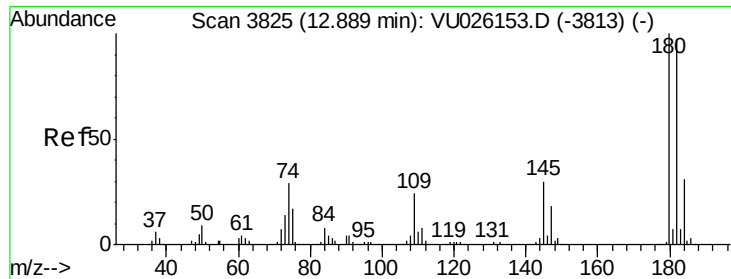
Delta R.T. 0.01 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Tgt Ion:	75	Resp:	1308
Ion	Ratio	Lower	Upper
75	100		
155	89.4	68.2	102.2
157	126.9	90.5	135.7





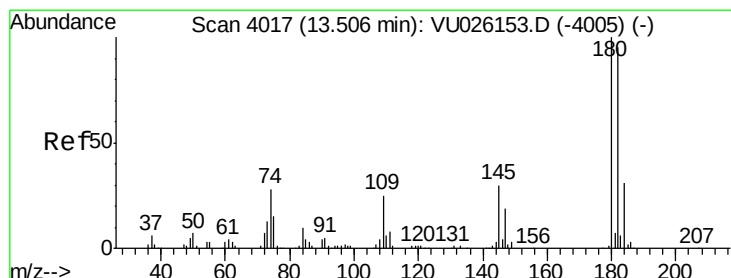
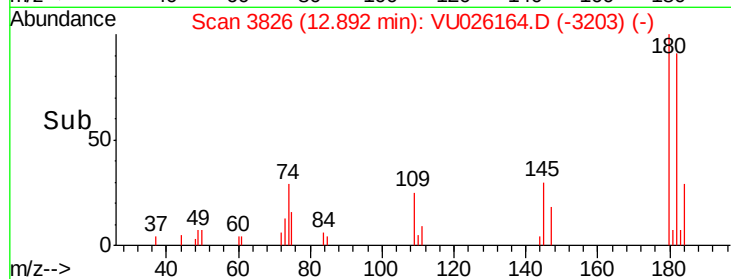
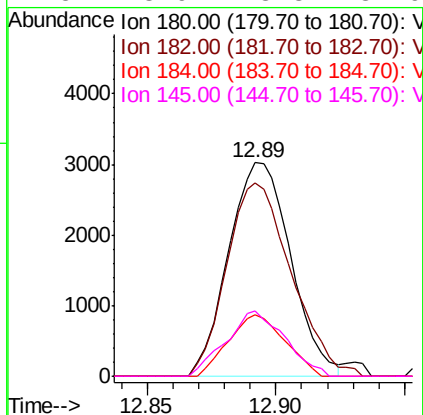
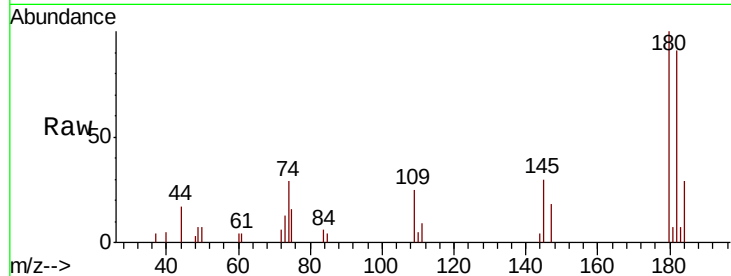
#67
 1,3,5-Trichlorobenzene
 Concen: 2.05 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.3	75.6	113.4
184	26.0	24.3	36.5
145	28.9	23.3	34.9

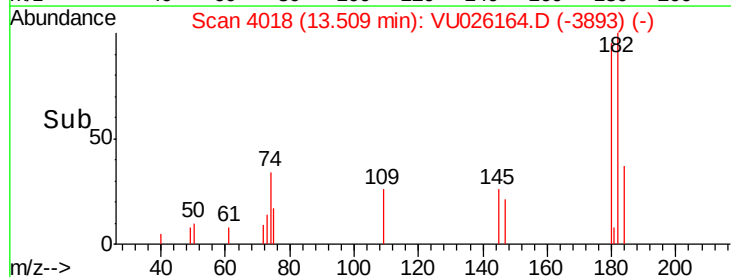
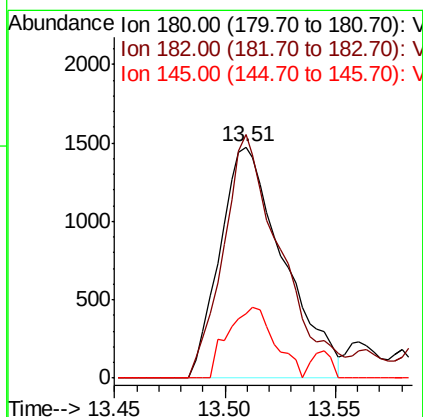
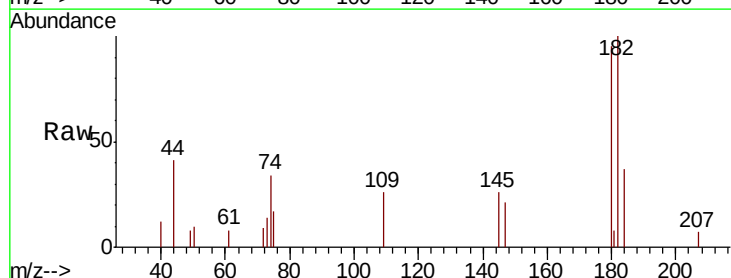
Manual Integrations
 APPROVED

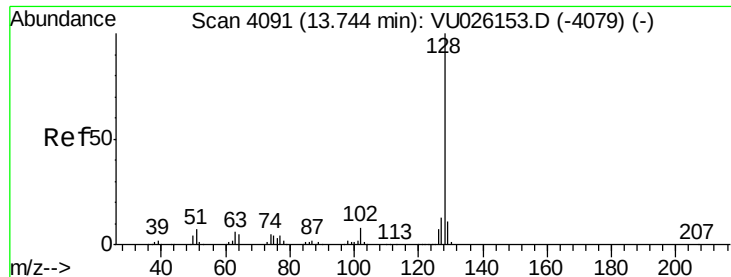
MMDadoda
 8/16/2018 4:20:26 PM



#68
 1,2,4-trichlorobenzene
 Concen: 1.56 ug/L
 RT: 13.51 min Scan# 4018
 Delta R.T. 0.00 min
 Lab File: VU026164.D
 Acq: 15 Aug 2018 22:49

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.8	115.2
145	22.8	23.8	35.6#





#69

Naphthalene

Concen: 1.45 ug/L m

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Instrument :

MSVOA_U

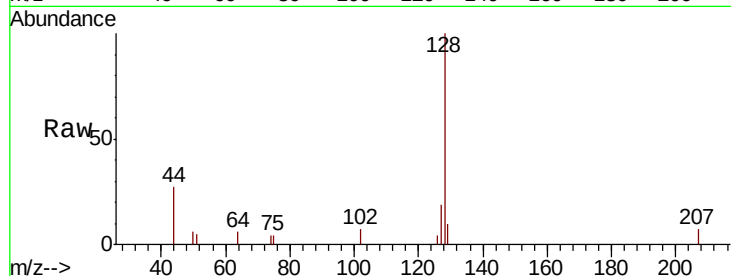
ClientSampled :

MDL02

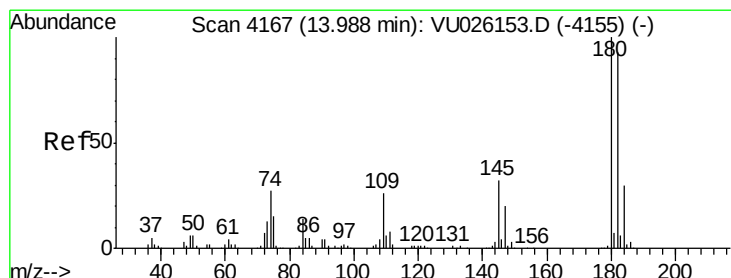
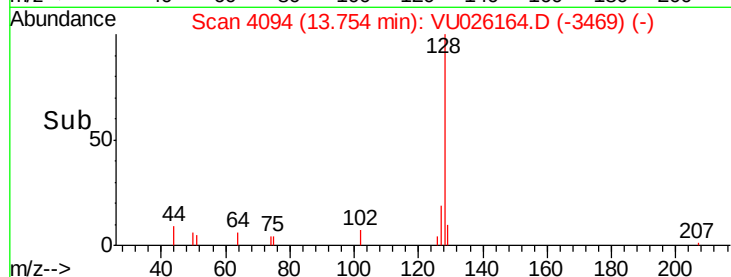
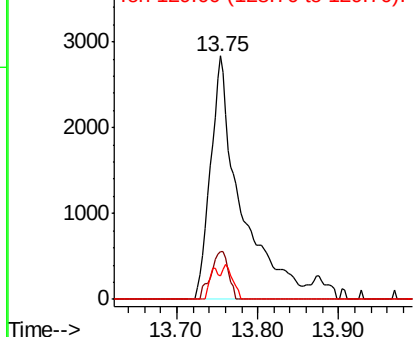
Tot Ion:	128	Resp:	7810
Ion Ratio	Lower	Upper	
128	100		
127	10.0	10.3	15.5#
129	4.6	8.6	13.0#

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:26 PM



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



#70

1,2,3-Trichlorobenzene

Concen: 1.52 ug/L m

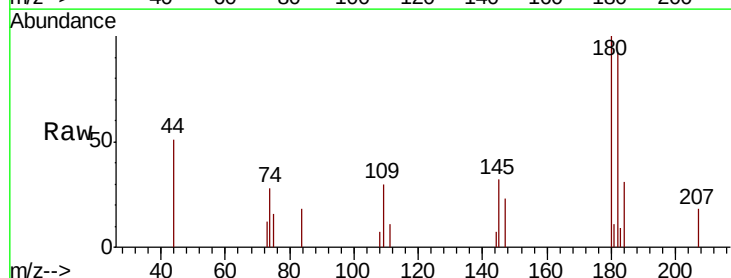
RT: 13.99 min Scan# 4169

Delta R.T. 0.01 min

Lab File: VU026164.D

Acq: 15 Aug 2018 22:49

Tgt Ion:	180	Resp:	3069
Ion Ratio	Lower	Upper	
180	100		
182	95.1	77.1	115.7
145	24.7	25.1	37.7#



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

