

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026162.D
 Acq On : 15 Aug 2018 21:36
 Operator : MD/SY
 Sample : MDL07
 Misc : 5.00µ/5mL/100µL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:24 PM

Quant Time: Aug 16 04:58:18 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	285627	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	269506	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	113122	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	71670	42.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.46%
7) Chloroethane-d5	1.67	69	61714	44.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.52%
11) 1,1-Dichloroethene-d2	2.27	63	112206	34.07	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.14%
21) 2-Butanone-d5	4.18	46	137821	107.10	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.10%
24) Chloroform-d	4.65	84	171951	45.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.54%
26) 1,2-Dichloroethane-d4	5.31	65	115763	47.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.16%
32) Benzene-d6	5.35	84	333347	47.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.94%
36) 1,2-Dichloropropane-d6	6.33	67	108387	47.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.90%
41) Toluene-d8	7.57	98	302126	45.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.86%
43) trans-1,3-Dichloropropene-	7.85	79	49560	45.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.64%
47) 2-Hexanone-d5	8.31	63	97870	104.57	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.57%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	154423	48.03	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.06%
64) 1,2-Dichlorobenzene-d4	11.86	152	118568	50.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.74%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	4239	1.87	ug/L	90
3) Chloromethane	1.33	50	4778	2.32	ug/L	99
5) Vinyl chloride	1.40	62	3848	1.87	ug/L #	52
6) Bromomethane	1.62	94	2250	2.12	ug/L	90
8) Chloroethane	1.70	64	2535	2.06	ug/L	96
9) Trichlorofluoromethane	1.88	101	5564	1.83	ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	3864	2.35	ug/L #	80
12) 1,1-Dichloroethene	2.28	96	3926	2.60	ug/L #	1
13) Acetone	2.32	43	4979	4.23	ug/L	94
14) Carbon disulfide	2.48	76	10335	1.97	ug/L	97
15) Methyl Acetate	2.62	43	4928	2.41	ug/L	93
16) Methylene chloride	2.70	84	4199	2.08	ug/L	94
17) trans-1,2-Dichloroethene	2.99	96	3332	1.86	ug/L	98
18) Methyl tert-butyl Ether	3.00	73	10179	1.79	ug/L	98
19) 1,1-Dichloroethane	3.45	63	6847	1.99	ug/L	95
20) cis-1,2-Dichloroethene	4.22	96	3821	1.90	ug/L	96
22) 2-Butanone	4.28	43	5041	3.44	ug/L	82

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026162.D
 Acq On : 15 Aug 2018 21:36
 Operator : MD/SY
 Sample : MDL07
 Misc : 5.00µ/5mL/100uL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:24 PM

Quant Time: Aug 16 04:58:18 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	2032m	1.87	uq/L	
25) Chloroform	4.68	83	8618	2.38	uq/L	99
27) 1,2-Dichloroethane	5.41	62	6047	2.07	uq/L	100
29) Cyclohexane	5.00	56	4456	1.65	uq/L #	86
30) 1,1,1-Trichloroethane	4.92	97	6562	2.04	uq/L #	76
31) Carbon tetrachloride	5.14	117	5940	2.04	uq/L	89
33) Benzene	5.39	78	13298	1.82	uq/L	100
34) Trichloroethene	6.19	95	3725	1.96	uq/L	88
35) Methylcyclohexane	6.42	83	4741	1.66	uq/L	99
37) 1,2-Dichloropropane	6.44	63	3941	1.93	uq/L	99
38) Bromodichloromethane	6.76	83	5490	2.03	uq/L	96
39) cis-1,3-Dichloropropene	7.27	75	5486	1.81	uq/L	100
40) 4-Methyl-2-pentanone	7.46	43	10103	4.00	uq/L #	92
42) Toluene	7.64	91	14813	1.91	uq/L	97
44) trans-1,3-Dichloropropene	7.88	75	5210	1.79	uq/L	93
45) 1,1,2-Trichloroethane	8.07	97	4080	2.11	uq/L	95
46) Tetrachloroethene	8.23	164	3191	1.95	uq/L	94
48) 2-Hexanone	8.36	43	9551	4.82	uq/L	94
49) Dibromochloromethane	8.48	129	4090	1.76	uq/L	91
50) 1,2-Dibromoethane	8.59	107	3833	1.91	uq/L #	99
51) Chlorobenzene	9.12	112	9838	1.86	uq/L	90
52) Ethylbenzene	9.26	91	14205	1.68	uq/L	99
53) m,p-Xylene	9.37	106	4802	1.48	uq/L	98
54) o-xylene	9.78	106	5460	1.68	uq/L	94
55) Styrene	9.80	104	7288	1.35	uq/L	96
56) Isopropylbenzene	10.17	105	12059	1.45	uq/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	6906	2.14	uq/L #	98
59) 1,2,3-Trichloropropane	10.50	75	5201	2.07	uq/L	92
61) Bromoform	9.96	173	2816	1.90	uq/L #	92
62) 1,3-Dichlorobenzene	11.42	146	5932	1.75	uq/L	90
63) 1,4-Dichlorobenzene	11.51	146	7012	2.01	uq/L	93
65) 1,2-Dichlorobenzene	11.88	146	7520	2.08	uq/L #	93
66) 1,2-Dibromo-3-chloropropan	12.66	75	1184	2.06	uq/L	91
67) 1,3,5-Trichlorobenzene	12.89	180	3996	1.60	uq/L	95
68) 1,2,4-trichlorobenzene	13.51	180	2303m	1.21	uq/L	
69) Naphthalene	13.76	128	6942m	1.29	uq/L	
70) 1,2,3-Trichlorobenzene	13.99	180	2640m	1.30	uq/L	

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

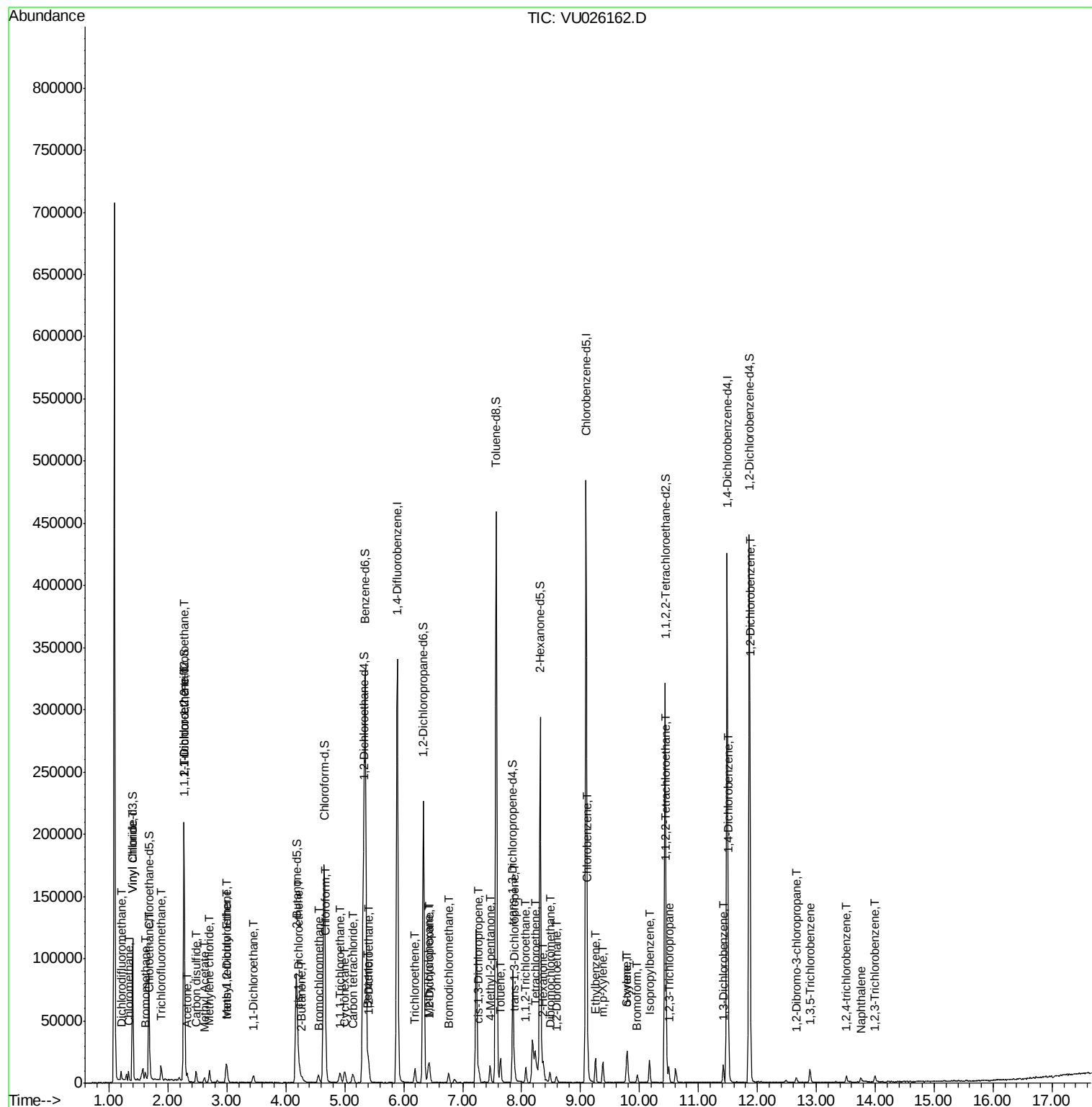
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU081518\
Data File : VU026162.D
Acq On : 15 Aug 2018 21:36
Operator : MD/SY
Sample : MDL07
Misc : 5.00µL/100µL/5.00mL/MSVOA_U/MEOH
ALS Vial : 34 Sample Multiplier: 1

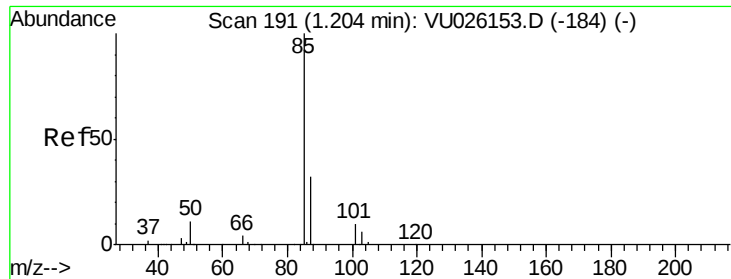
Instrument :
MSVOA_U
ClientSampleId :
MDL07

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:24 PM

Quant Time: Aug 16 04:58:18 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: 1.87 ug/L

RT: 1.20 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 85 Resp: 4239

Ion Ratio Lower Upper

85 100

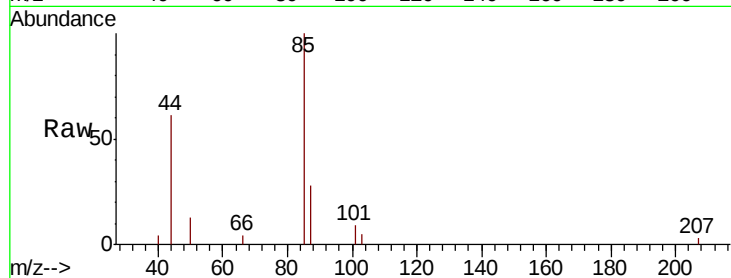
87 26.8 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:24 PM



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

5000

4000

3000

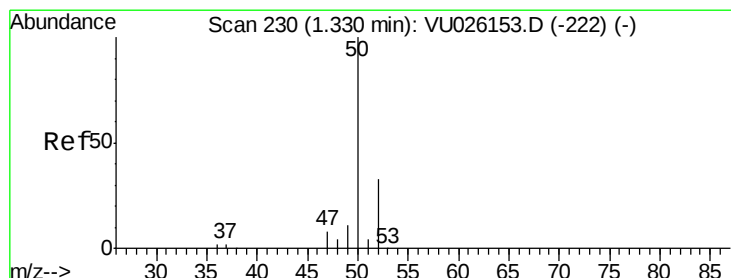
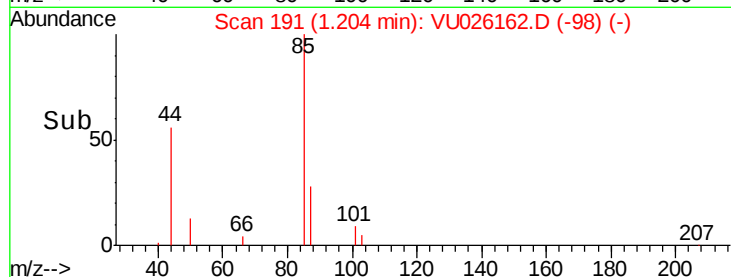
2000

1000

0

Time-->

1.18 1.20 1.22 1.24



#3

Chloromethane

Concen: 2.32 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU026162.D

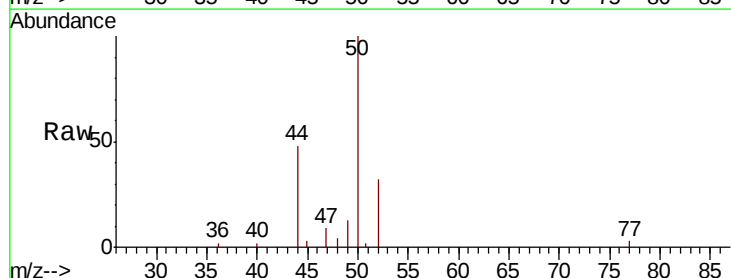
Acq: 15 Aug 2018 21:36

Tgt Ion: 50 Resp: 4778

Ion Ratio Lower Upper

50 100

52 32.2 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

5000

4000

3000

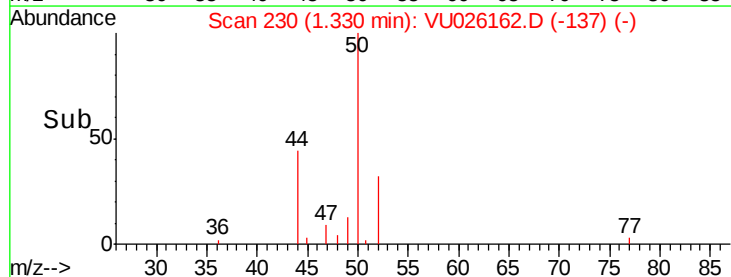
2000

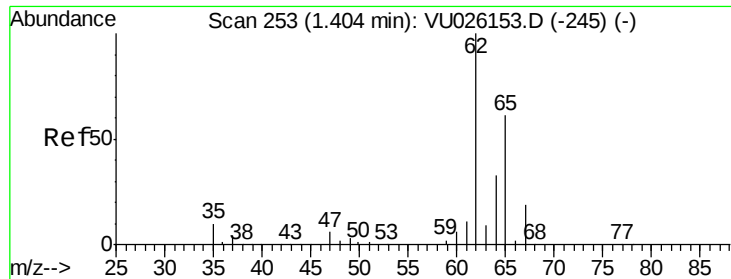
1000

0

Time-->

1.30 1.32 1.34 1.36





#5

Vinyl chloride

Concen: 1.87 ug/L

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 62 Resp: 3848

Ion Ratio Lower Upper

62 100

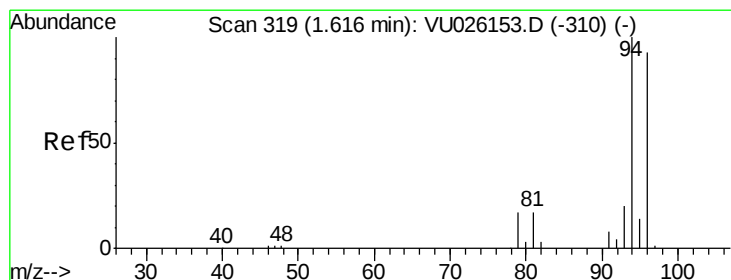
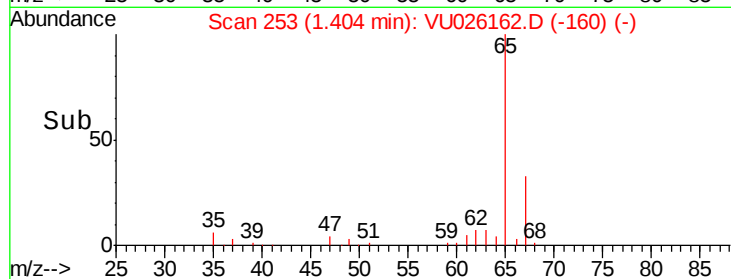
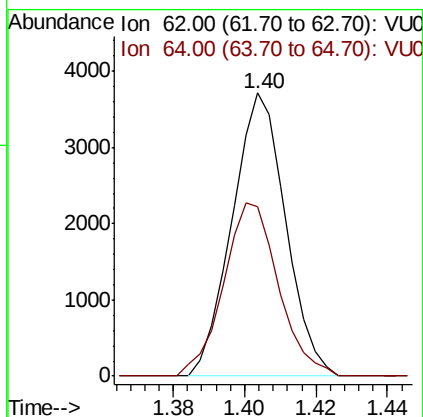
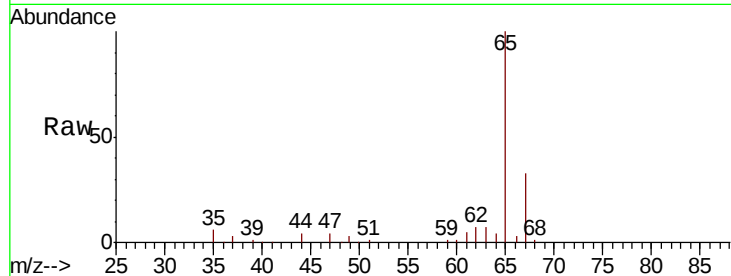
64 59.7 23.0 42.8#

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:24 PM



#6

Bromomethane

Concen: 2.12 ug/L

RT: 1.62 min Scan# 320

Delta R.T. 0.00 min

Lab File: VU026162.D

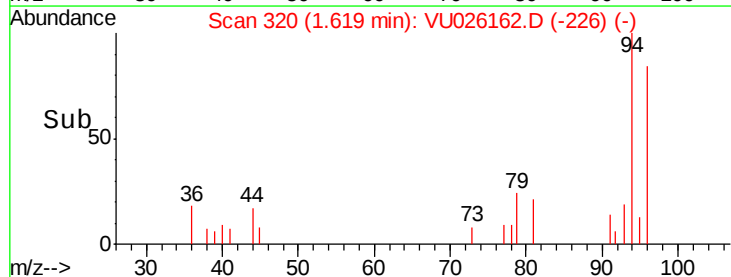
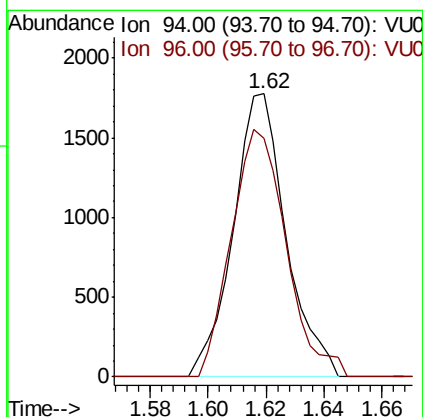
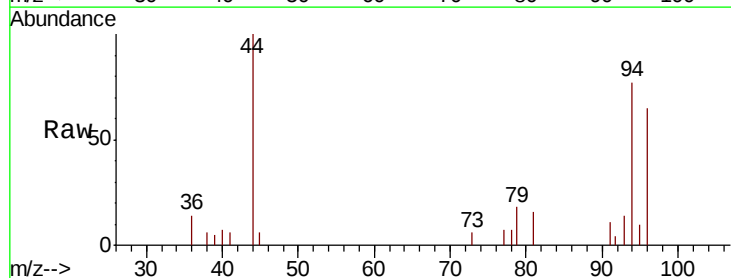
Acq: 15 Aug 2018 21:36

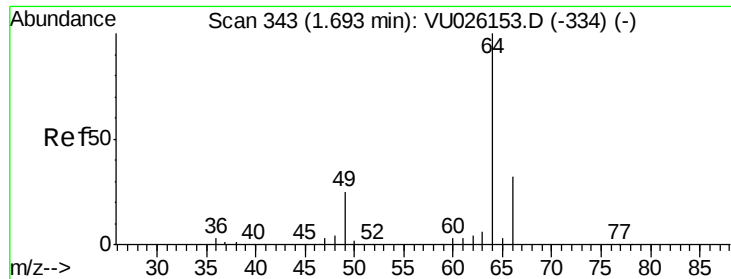
Tgt Ion: 94 Resp: 2250

Ion Ratio Lower Upper

94 100

96 84.5 65.9 122.5





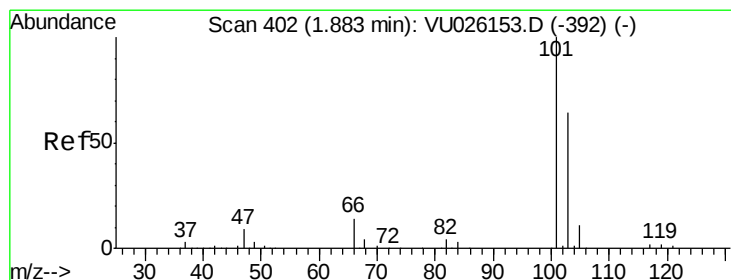
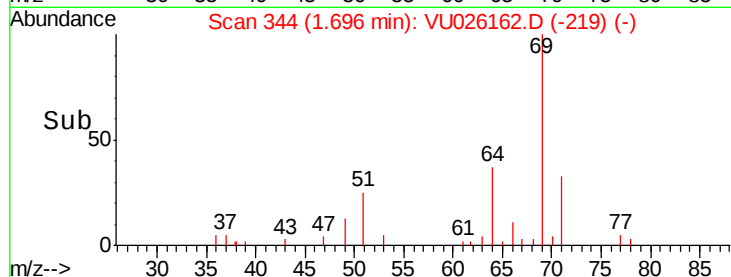
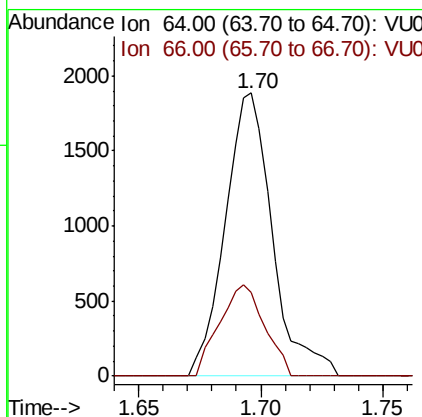
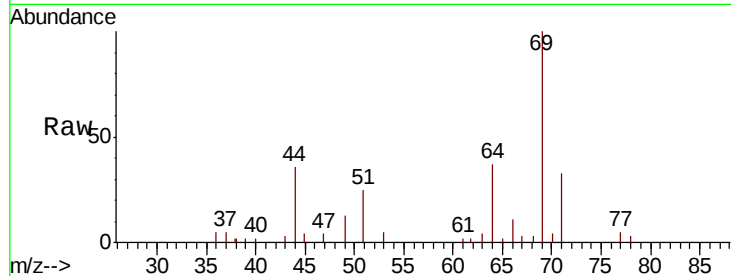
#8
Chloroethane
Concen: 2.06 ug/L
RT: 1.70 min Scan# 344
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion: 64 Resp: 2535
Ion Ratio Lower Upper
64 100
66 29.4 22.2 41.2

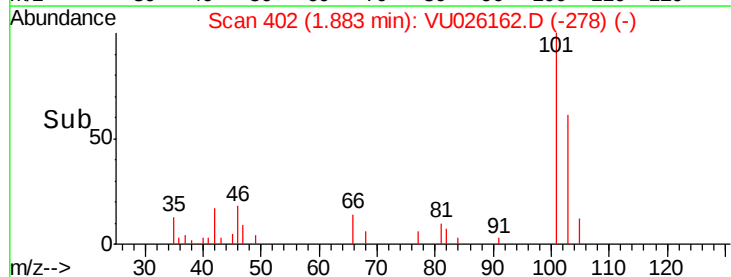
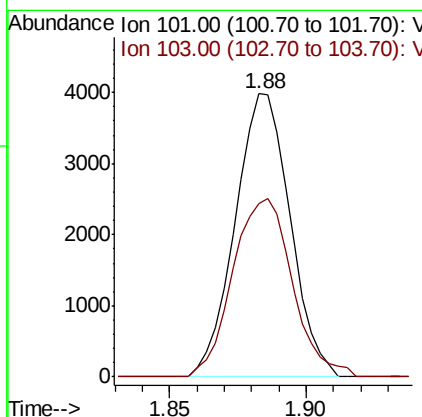
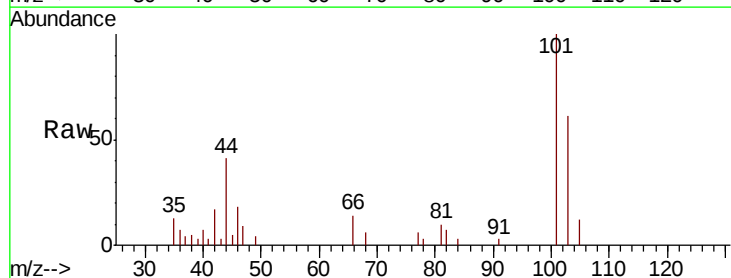
Manual Integrations
APPROVED

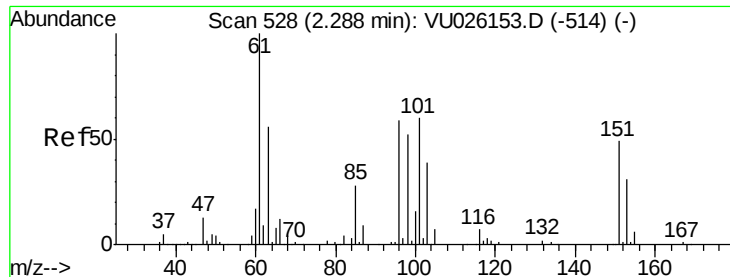
MMDadoda
8/16/2018 4:20:24 PM



#9
Trichlorofluoromethane
Concen: 1.83 ug/L
RT: 1.88 min Scan# 402
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Tgt Ion: 101 Resp: 5564
Ion Ratio Lower Upper
101 100
103 68.4 51.4 77.2





#10

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

Concen: 2.35 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

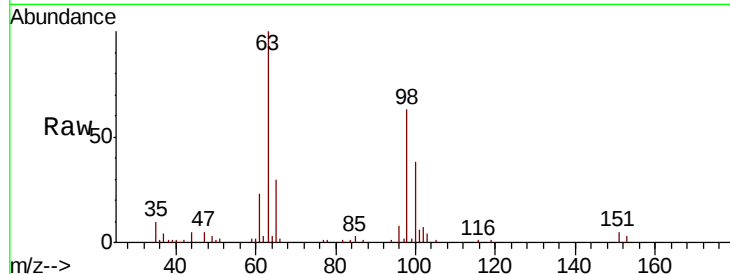
ClientSampleId :

MDL07

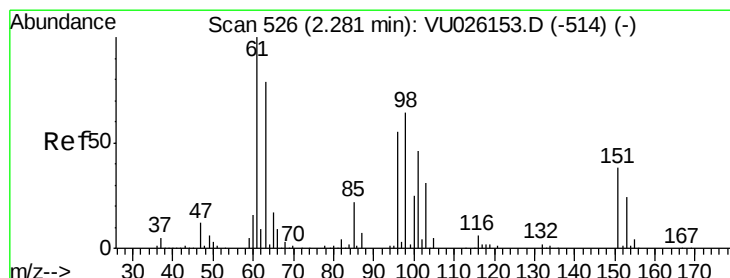
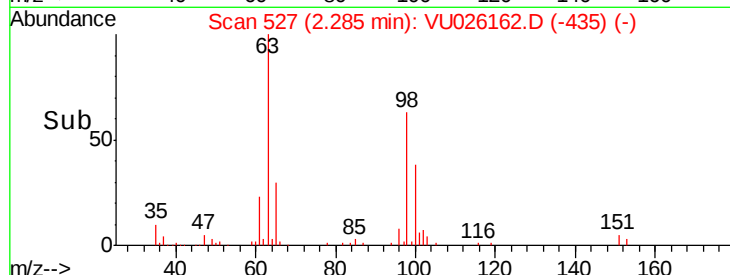
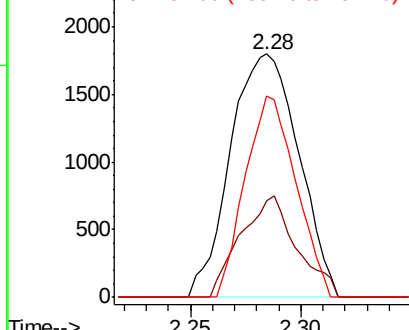
Tot Ion:	101	Resp:	3864
Ion Ratio	Lower	Upper	
101	100		
85	34.3	36.6	55.0#
151	61.6	63.8	95.8#

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:24 PM



Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VU
Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.60 ug/L

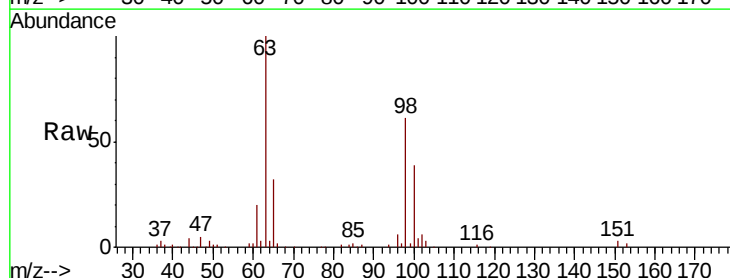
RT: 2.28 min Scan# 526

Delta R.T. 0.00 min

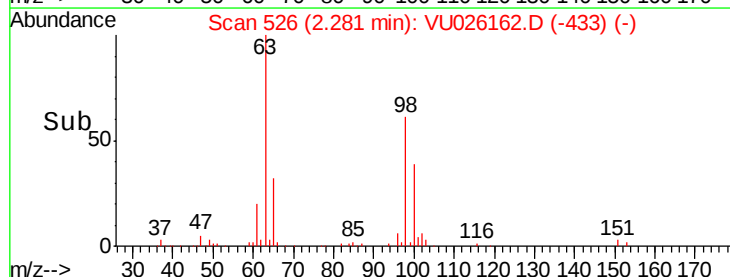
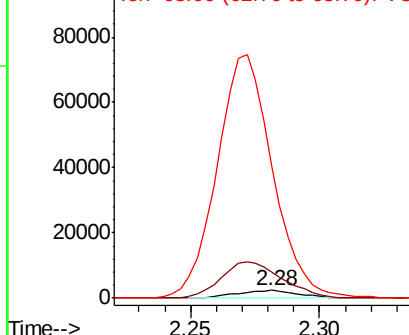
Lab File: VU026162.D

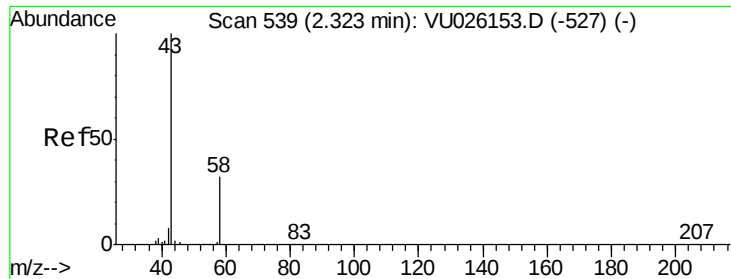
Acq: 15 Aug 2018 21:36

Tgt Ion:	96	Resp:	3926
Ion Ratio	Lower	Upper	
96	100		
61	342.6	126.8	235.4#
63	1697.4	97.0	180.2#



Abundance Ion 96.00 (95.70 to 96.70): VU
Ion 61.00 (60.70 to 61.70): VU
Ion 63.00 (62.70 to 63.70): VU





#13

Acetone

Concen: 4.23 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 43 Resp: 4979

Ion Ratio Lower Upper

43 100

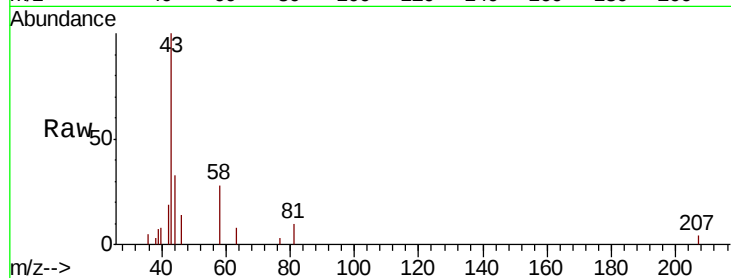
58 28.3 0.0 62.6

Manual Integrations

APPROVED

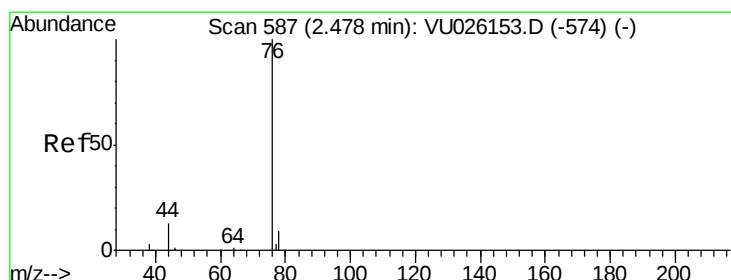
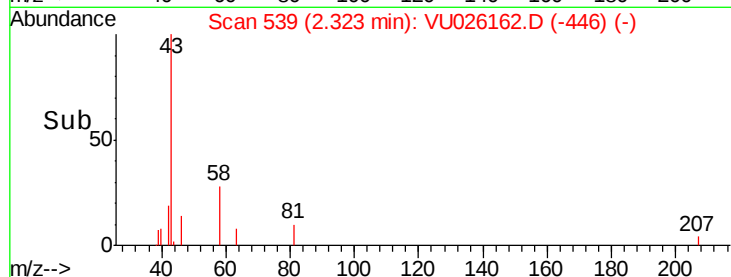
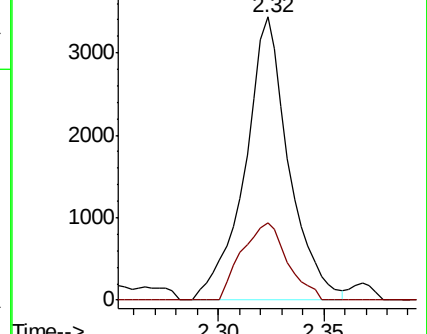
MMDadoda

8/16/2018 4:20:24 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 1.97 ug/L

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU026162.D

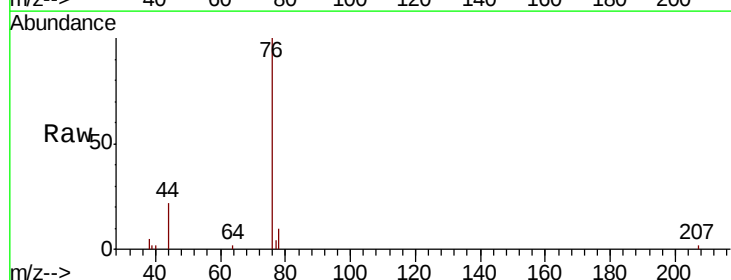
Acq: 15 Aug 2018 21:36

Tgt Ion: 76 Resp: 10335

Ion Ratio Lower Upper

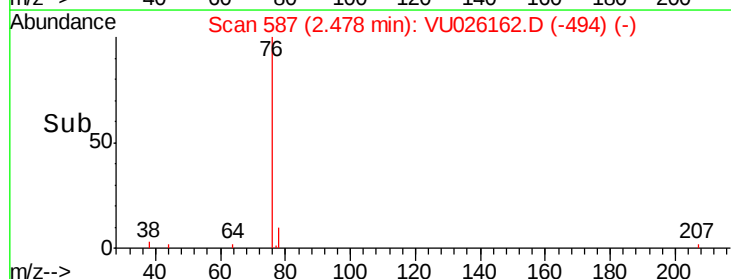
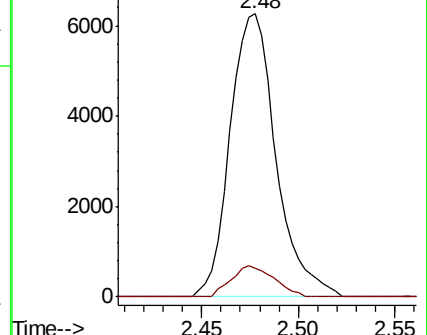
76 100

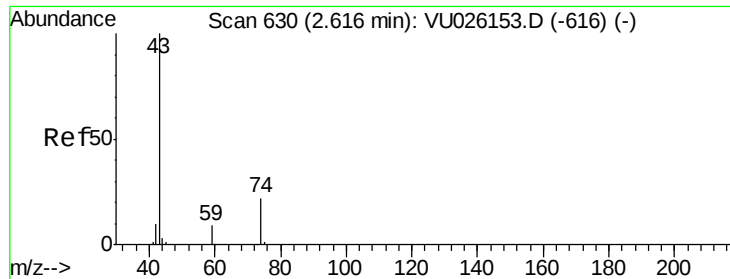
78 10.2 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





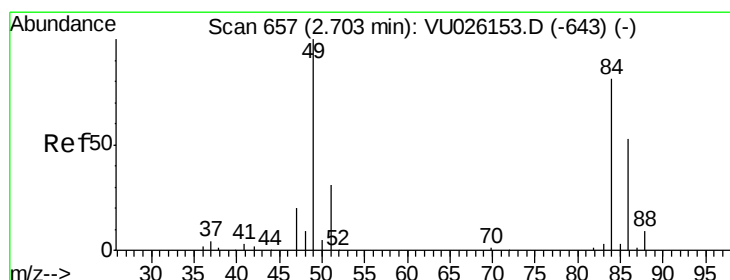
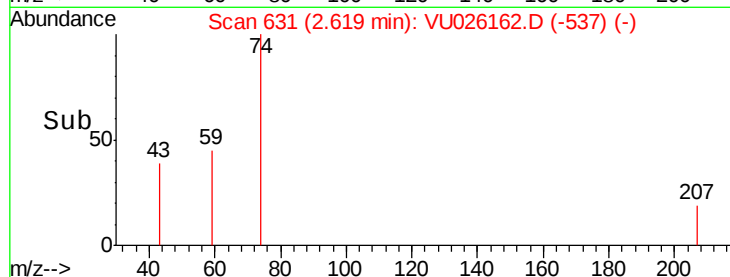
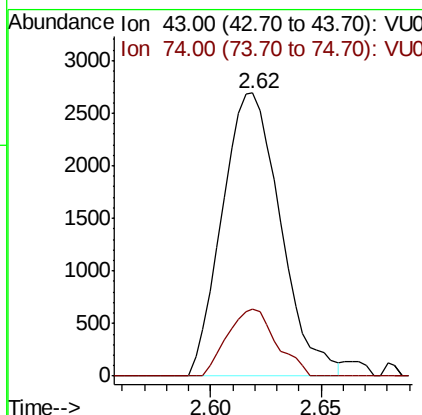
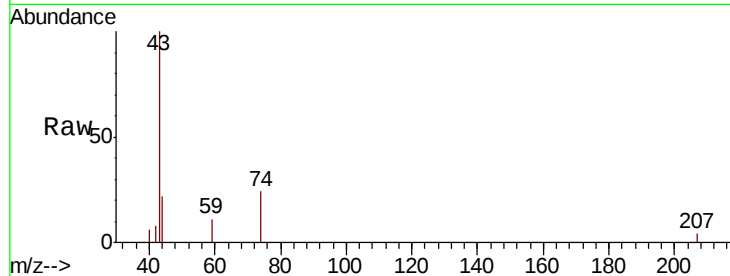
#15
Methvl Acetate
Concen: 2.41 ug/L
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion: 43 Resp: 4928
Ion Ratio Lower Upper
43 100
74 19.8 18.6 28.0

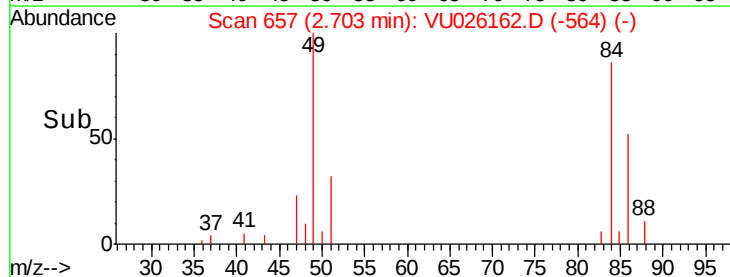
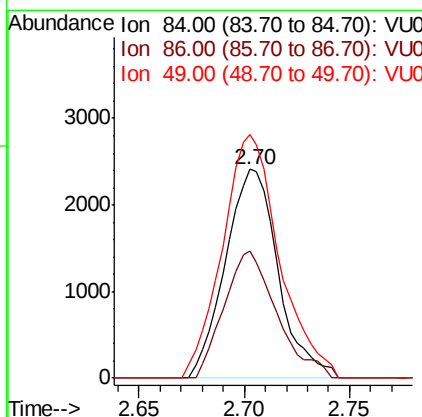
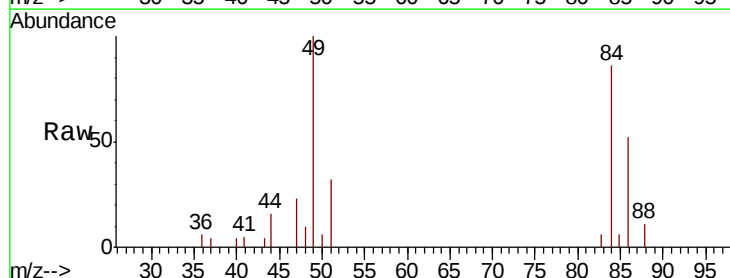
Manual Integrations
APPROVED

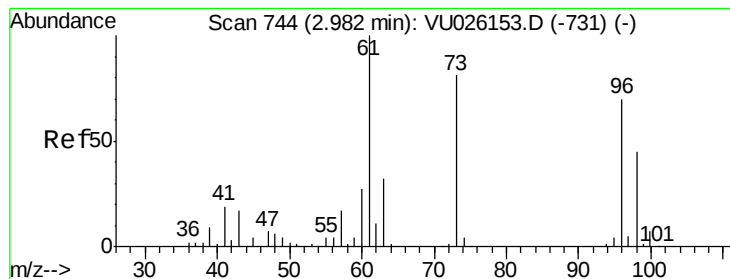
MMDadoda
8/16/2018 4:20:24 PM



#16
Methylene chloride
Concen: 2.08 ug/L
RT: 2.70 min Scan# 657
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Tgt Ion: 84 Resp: 4199
Ion Ratio Lower Upper
84 100
86 60.9 44.0 81.6
49 116.8 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 1.86 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 96 Resp: 3332

Ion Ratio Lower Upper

96 100

61 135.7 96.7 179.5

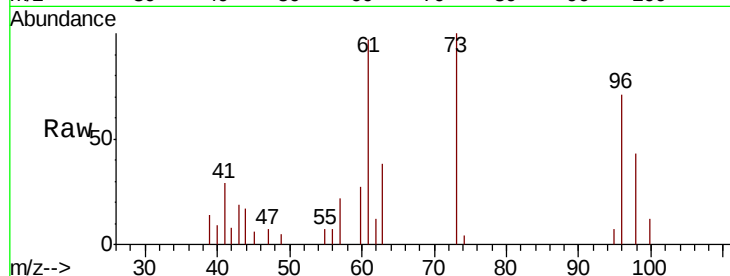
98 60.0 43.6 81.0

Manual Integrations

APPROVED

MMDadoda

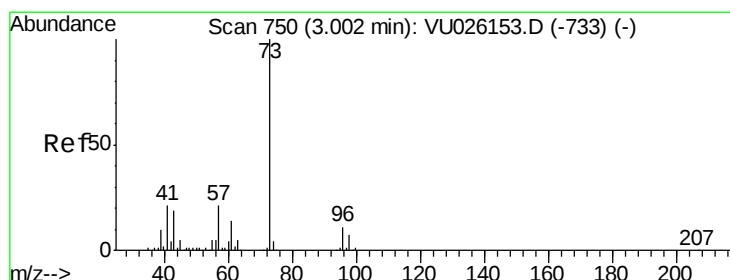
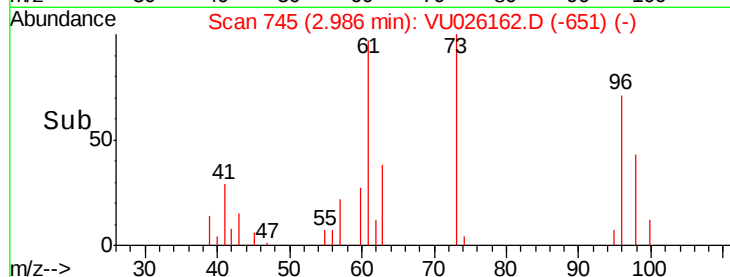
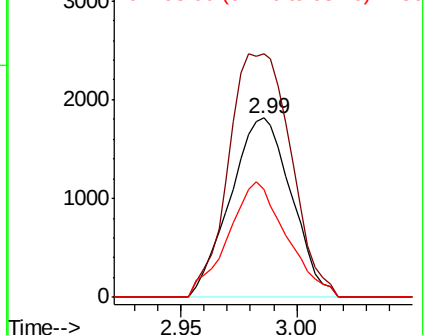
8/16/2018 4:20:24 PM



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 1.79 ug/L

RT: 3.00 min Scan# 749

Delta R.T. -0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

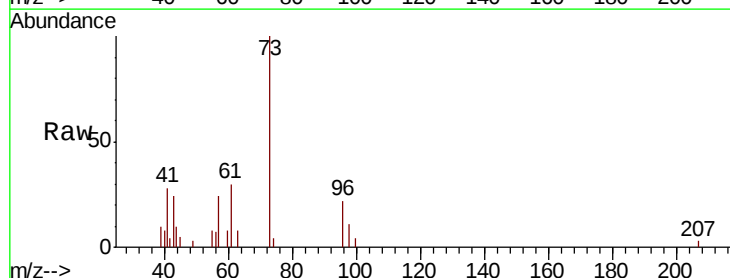
Tgt Ion: 73 Resp: 10179

Ion Ratio Lower Upper

73 100

43 21.2 16.2 24.4

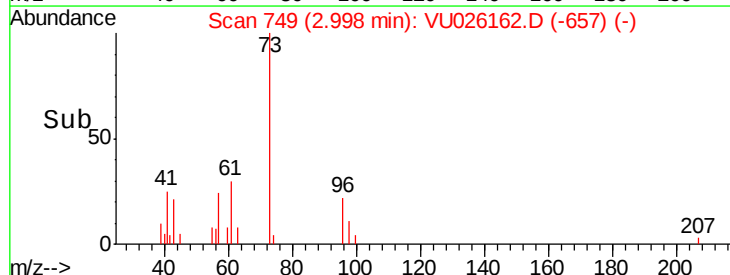
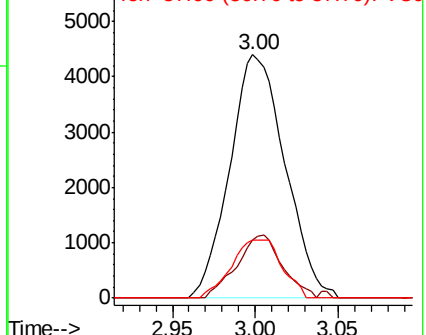
57 21.8 18.2 27.2

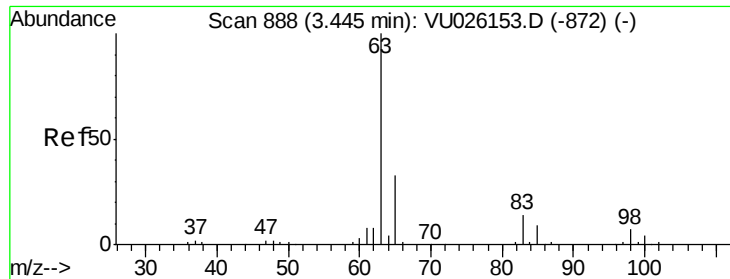


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





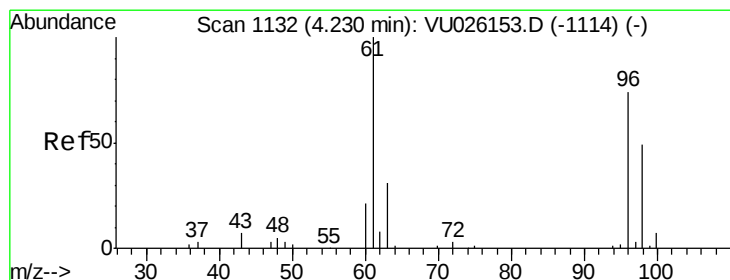
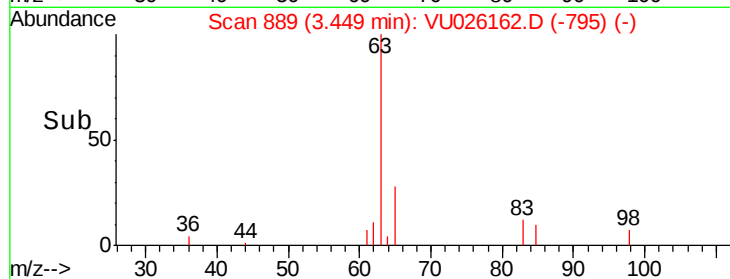
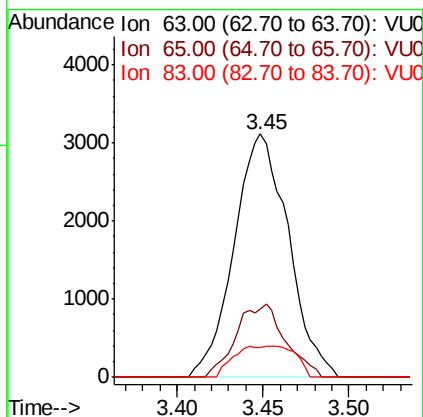
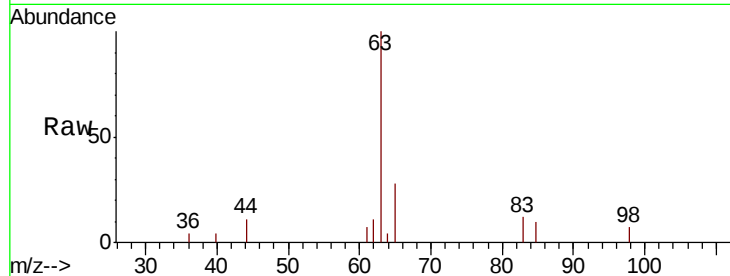
#19
 1,1-Dichloroethane
 Concen: 1.99 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU026162.D
 Acq: 15 Aug 2018 21:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
63	100		
65	28.1	22.1	41.1
83	12.3	9.4	17.4

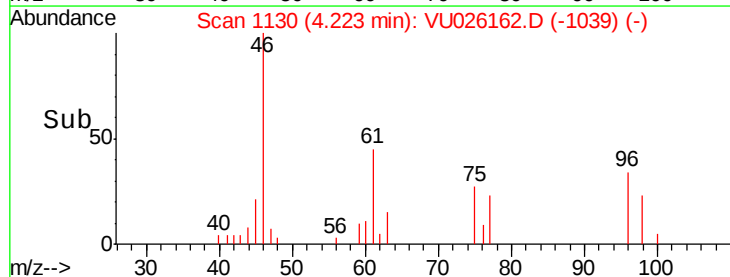
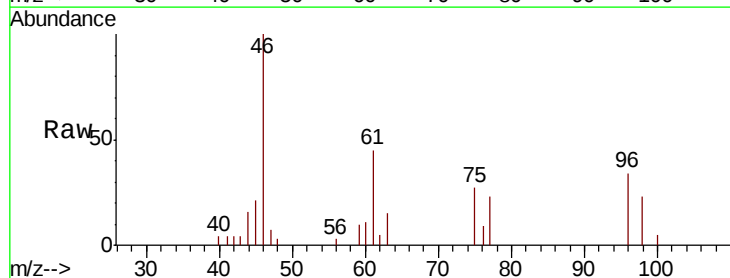
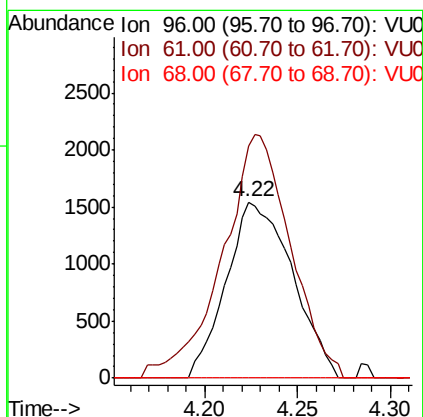
Manual Integrations
 APPROVED

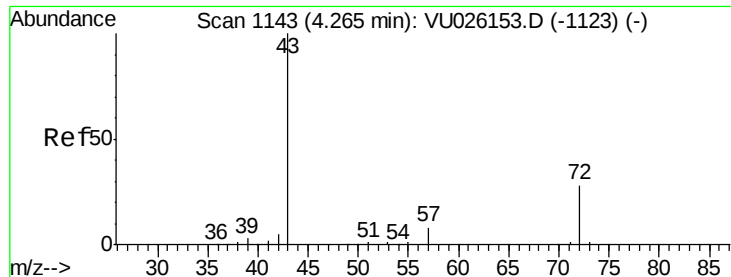
MMDadoda
 8/16/2018 4:20:24 PM



#20
 cis-1,2-Dichloroethene
 Concen: 1.90 ug/L
 RT: 4.22 min Scan# 1130
 Delta R.T. -0.01 min
 Lab File: VU026162.D
 Acq: 15 Aug 2018 21:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	131.7	88.6	164.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.44 ug/L

RT: 4.28 min Scan# 1147

Delta R.T. 0.01 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 43 Resp: 5041

Ion Ratio Lower Upper

43 100

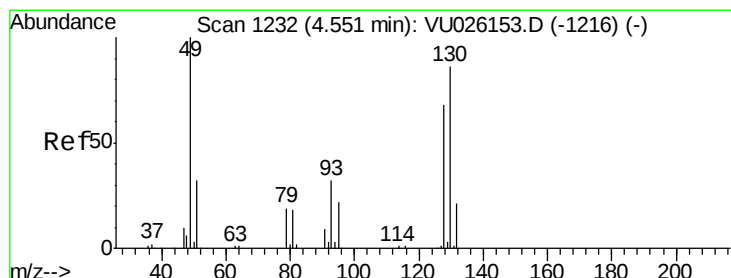
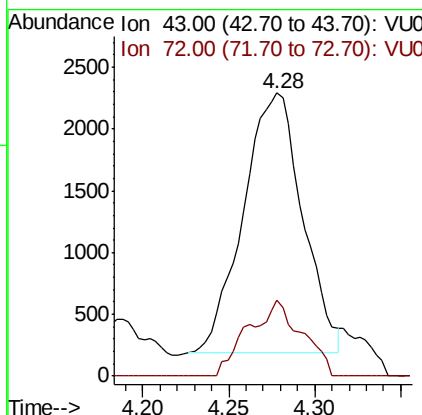
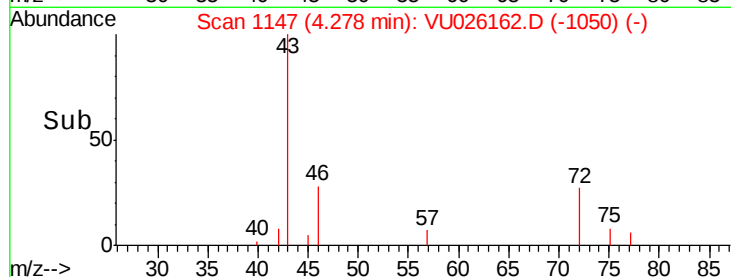
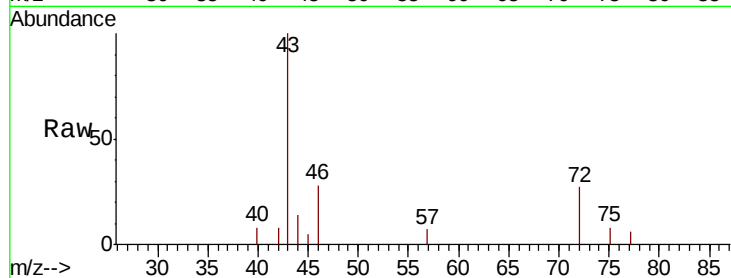
72 17.2 13.4 40.1

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:24 PM



#23

Bromochloromethane

Concen: 1.87 ug/L m

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Tgt Ion: 128 Resp: 2032

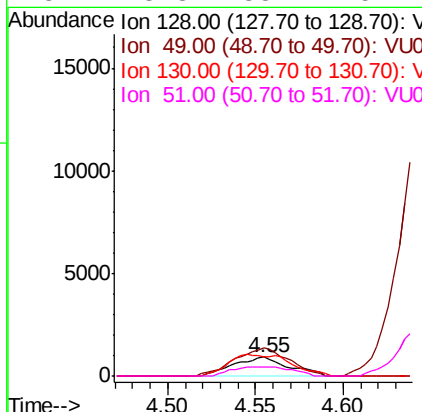
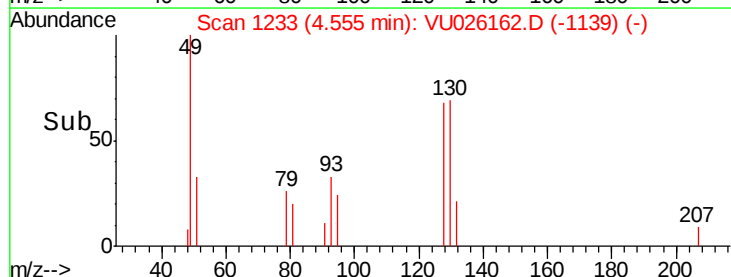
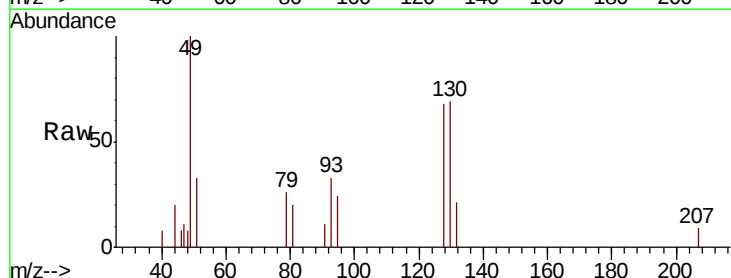
Ion Ratio Lower Upper

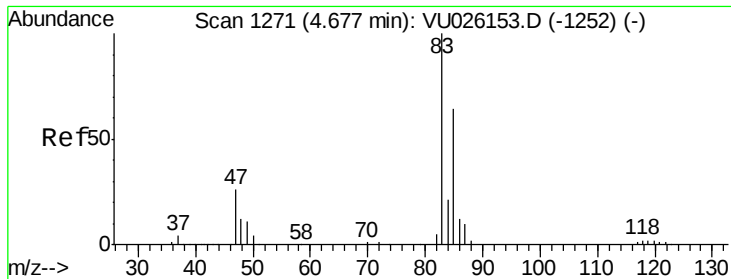
128 100

49 146.0 101.3 188.1

130 100.3 86.4 160.4

51 48.3 38.1 57.1





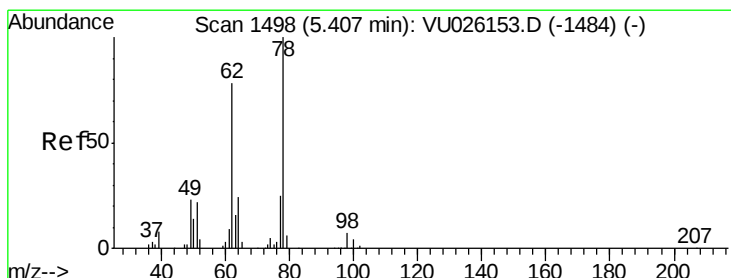
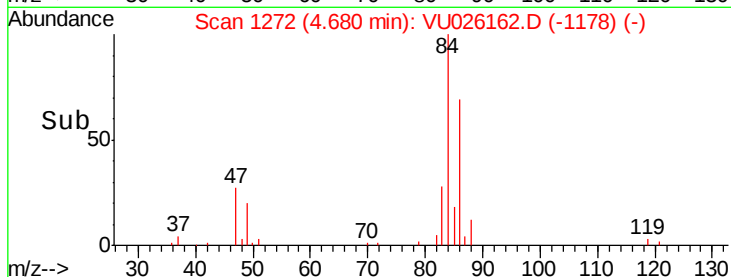
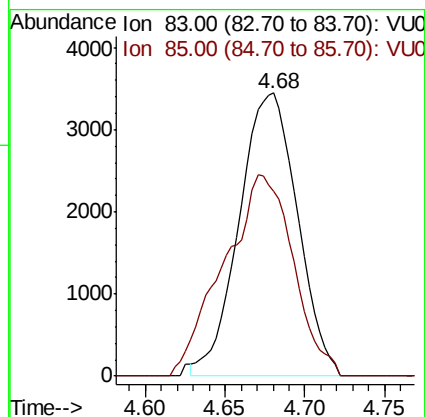
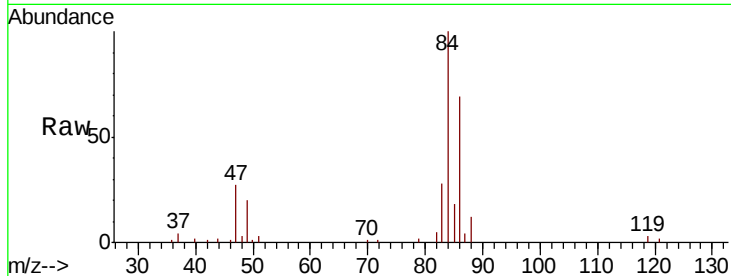
#25
Chloroform
Concen: 2.38 ug/L
RT: 4.68 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	83	Resp	8618
Ion Ratio	100	Lower	Upper
85	65.4	46.3	86.1

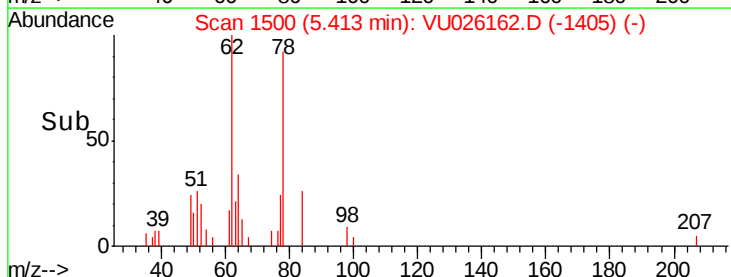
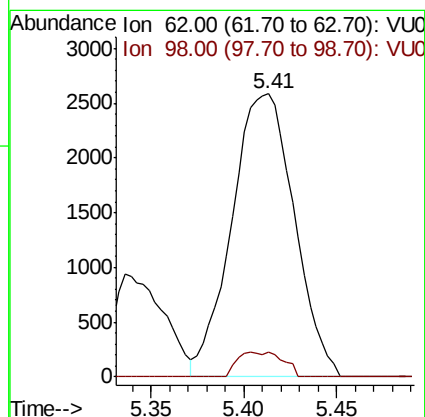
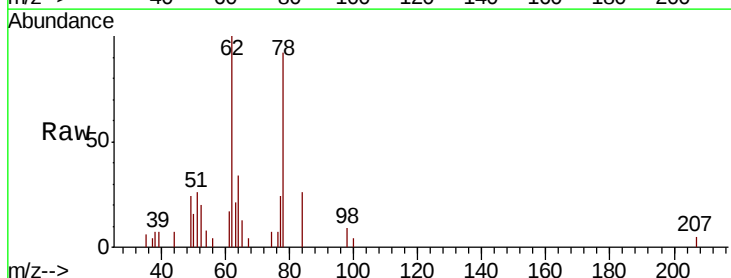
Manual Integrations
APPROVED

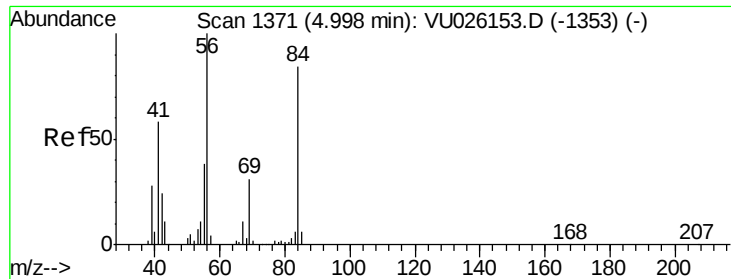
MMDadoda
8/16/2018 4:20:24 PM



#27
1,2-Dichloroethane
Concen: 2.07 ug/L
RT: 5.41 min Scan# 1500
Delta R.T. 0.01 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Tgt Ion	62	Resp	6047
Ion Ratio	100	Lower	Upper
98	8.6	7.0	10.4





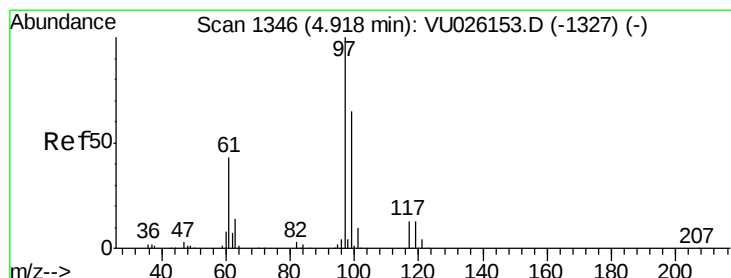
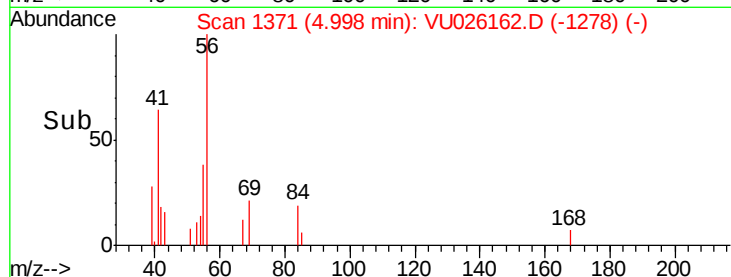
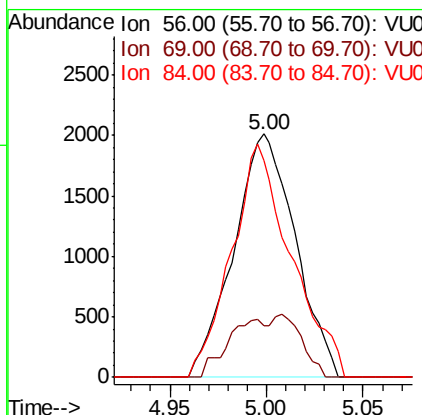
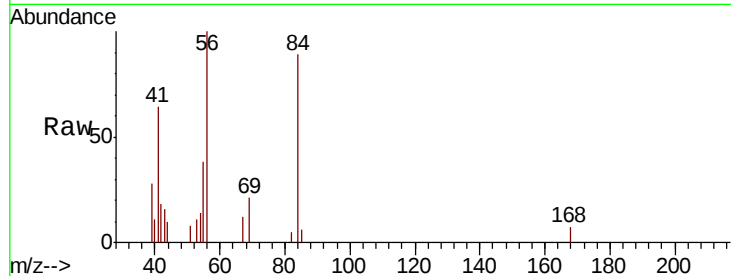
#29
Cyclohexane
Concen: 1.65 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Instrument :
MSVOA_U
ClientSampled :
MDL07

Tot Ion	Ratio	Lower	Upper
56	100		
69	12.3	24.1	36.1#
84	93.0	68.6	102.8

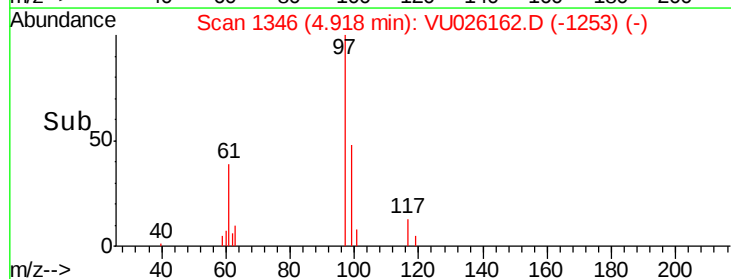
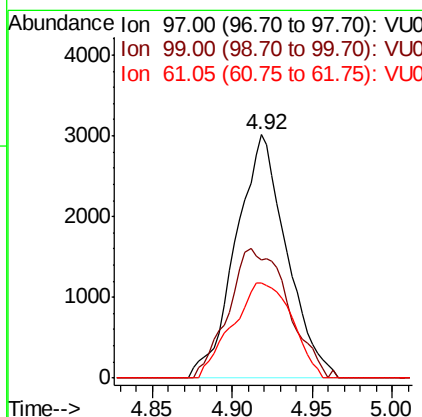
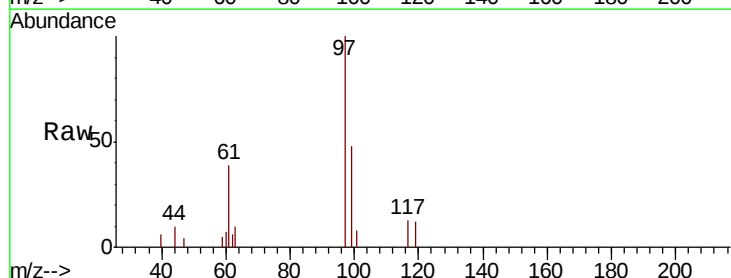
Manual Integrations
APPROVED

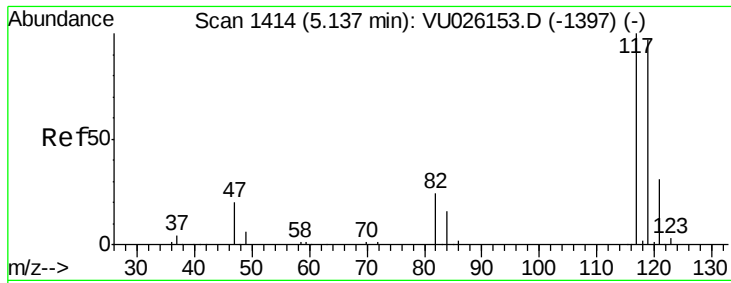
MMDadoda
8/16/2018 4:20:24 PM



#30
1,1,1-Trichloroethane
Concen: 2.04 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	34.5	52.2	78.2#
61	45.9	35.4	53.0





#31

Carbon tetrachloride

Concen: 2.04 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion:117 Resp: 5940

Ion Ratio Lower Upper

117 100

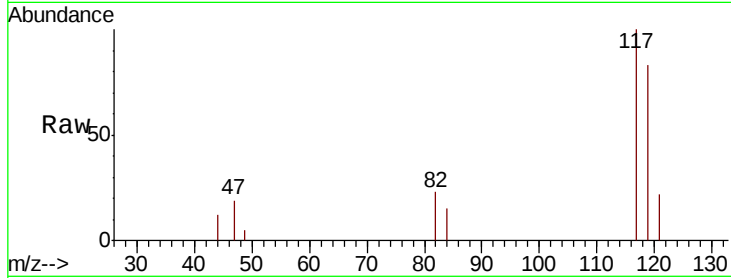
119 86.2 77.4 116.2

Manual Integrations

APPROVED

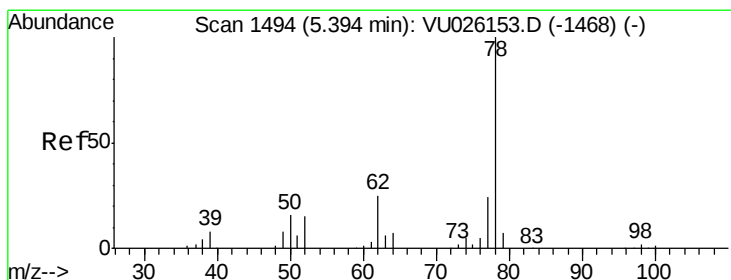
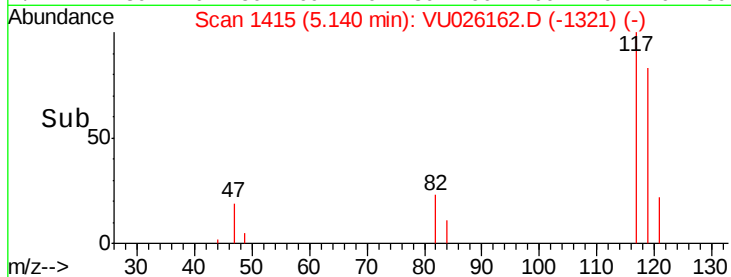
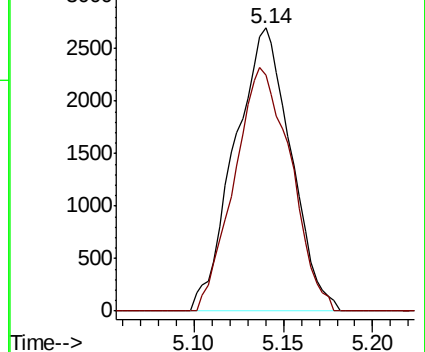
MMDadoda

8/16/2018 4:20:24 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 1.82 ug/L

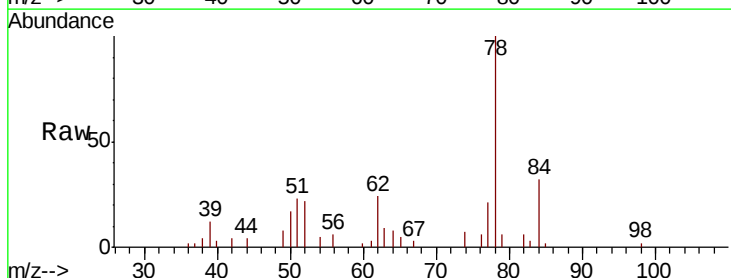
RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

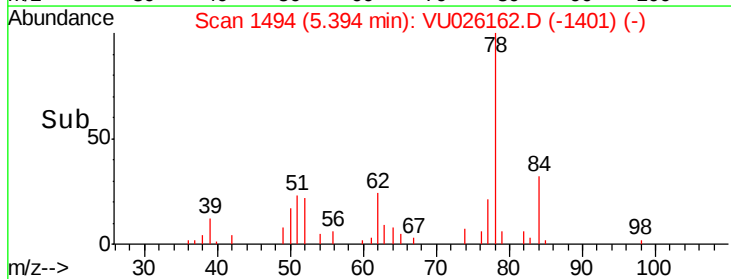
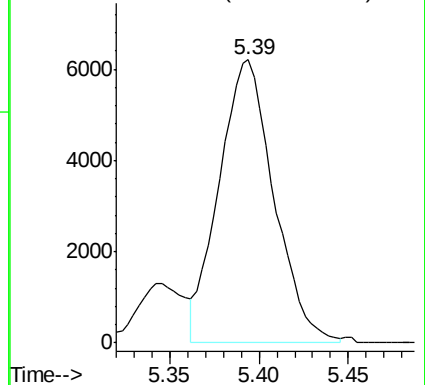
Lab File: VU026162.D

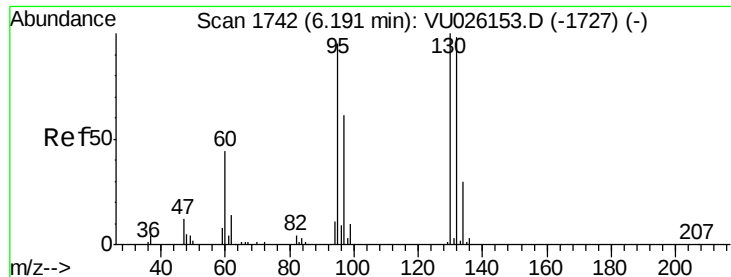
Acq: 15 Aug 2018 21:36

Tgt Ion: 78 Resp: 13298



Abundance Ion 78.00 (77.70 to 78.70): VU0





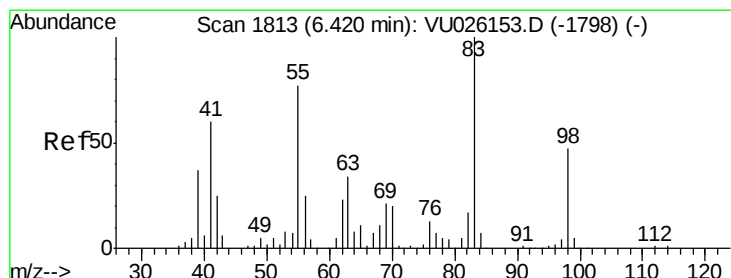
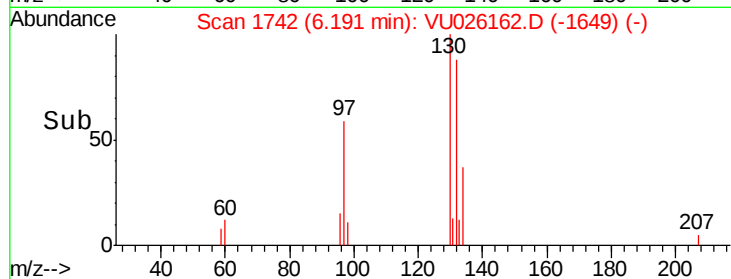
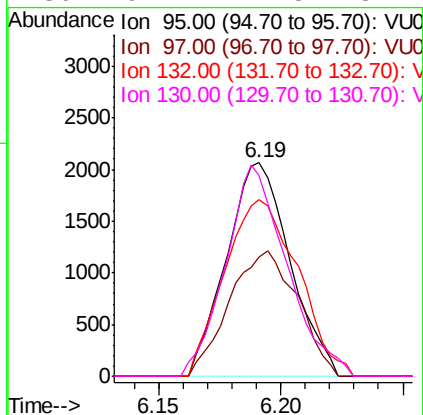
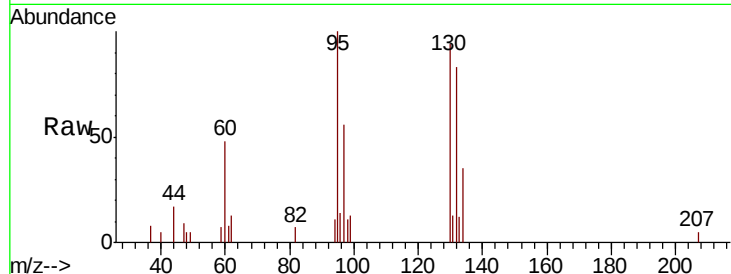
#34
 Trichloroethene
 Concen: 1.96 ug/L
 RT: 6.19 min Scan# 1742
 Delta R.T. 0.00 min
 Lab File: VU026162.D
 Acq: 15 Aug 2018 21:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion:	95	Resp:	3725
Ion	Ratio	Lower	Upper
95	100		
97	55.9	45.7	84.9
132	82.9	68.8	127.8
130	94.2	71.5	132.7

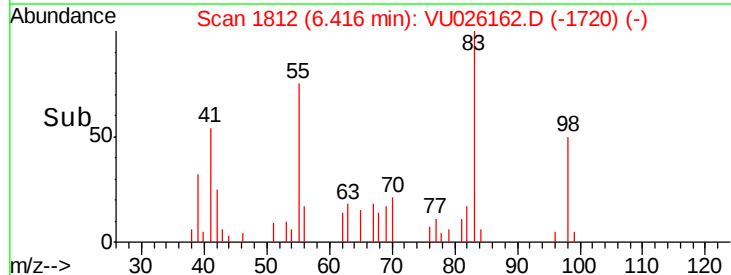
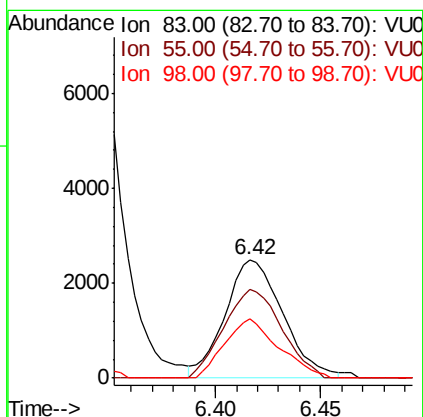
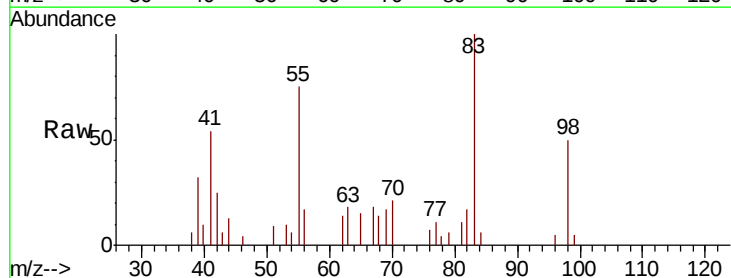
Manual Integrations
 APPROVED

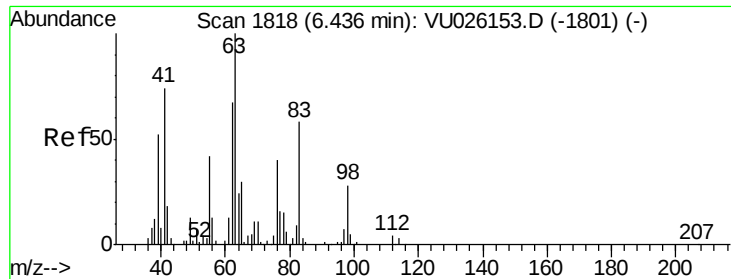
MMDadoda
 8/16/2018 4:20:24 PM



#35
 Methylcyclohexane
 Concen: 1.66 ug/L
 RT: 6.42 min Scan# 1812
 Delta R.T. -0.00 min
 Lab File: VU026162.D
 Acq: 15 Aug 2018 21:36

Tgt Ion:	83	Resp:	4741
Ion	Ratio	Lower	Upper
83	100		
55	75.2	61.0	91.6
98	46.9	37.6	56.4





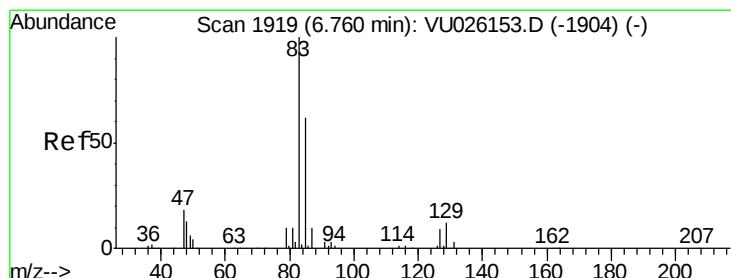
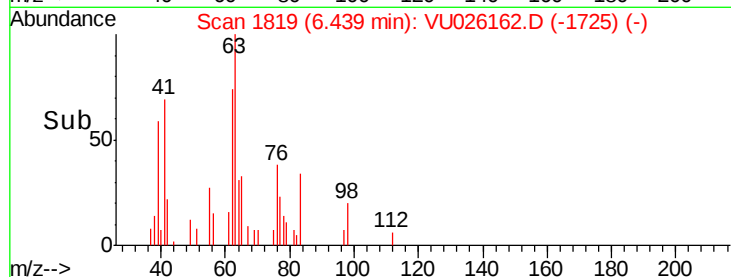
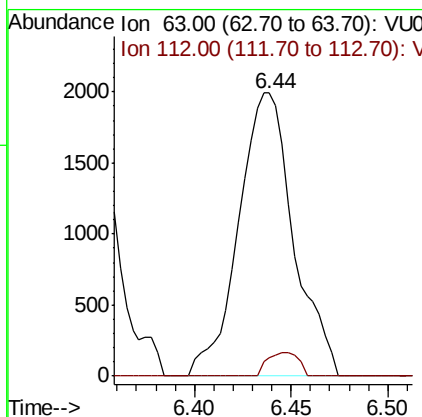
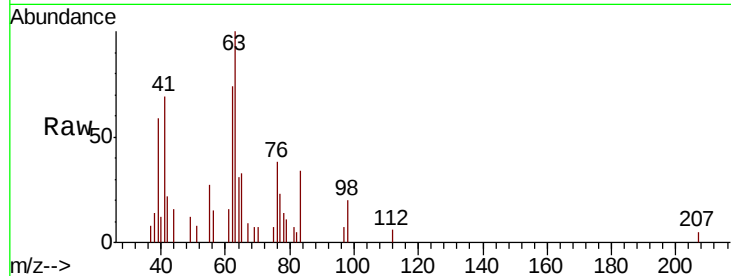
#37
 1,2-Dichloropropane
 Concen: 1.93 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU026162.D
 Acq: 15 Aug 2018 21:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	63	Resp	3941
Ion Ratio	Lower	Upper	
63	100		
112	4.6	3.5	5.3

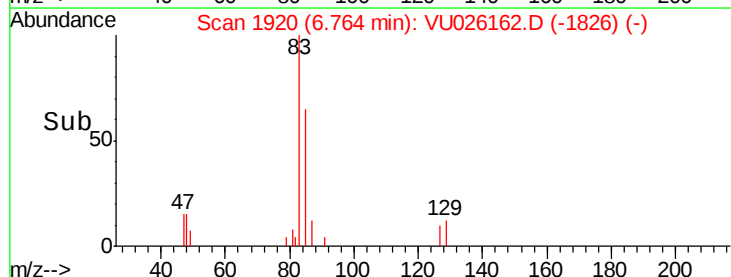
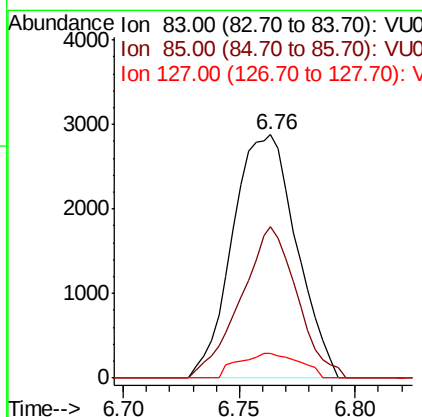
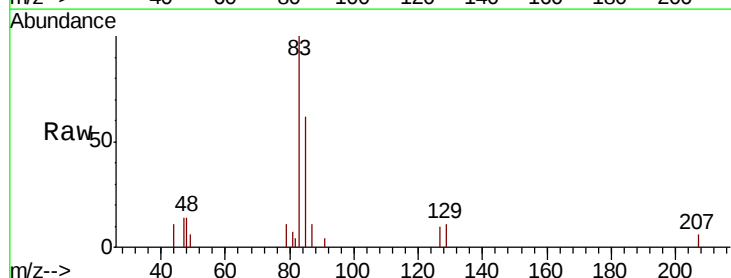
Manual Integrations
 APPROVED

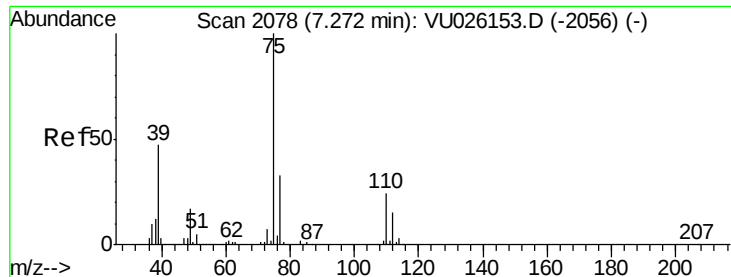
MMDadoda
 8/16/2018 4:20:24 PM



#38
 Bromodichloromethane
 Concen: 2.03 ug/L
 RT: 6.76 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU026162.D
 Acq: 15 Aug 2018 21:36

Tgt Ion	83	Resp	5490
Ion Ratio	Lower	Upper	
83	100		
85	62.1	46.0	85.4
127	9.9	7.5	11.3





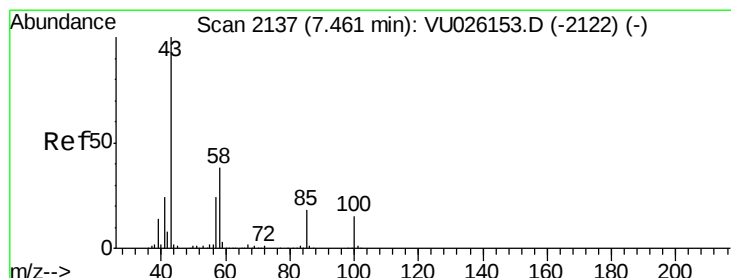
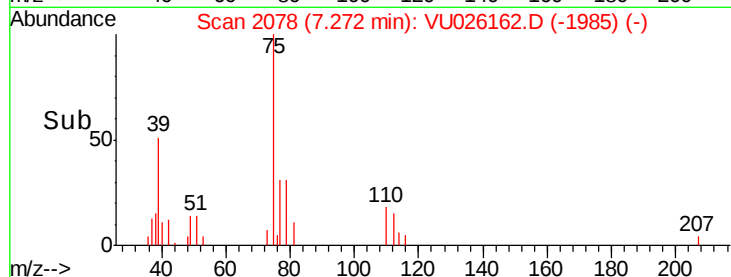
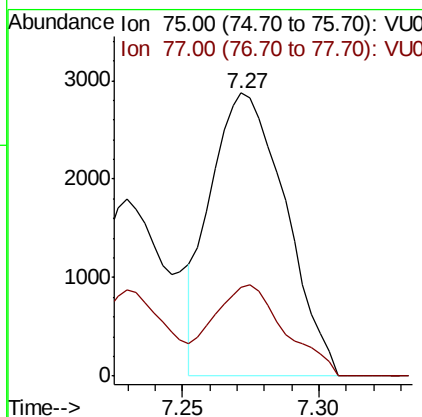
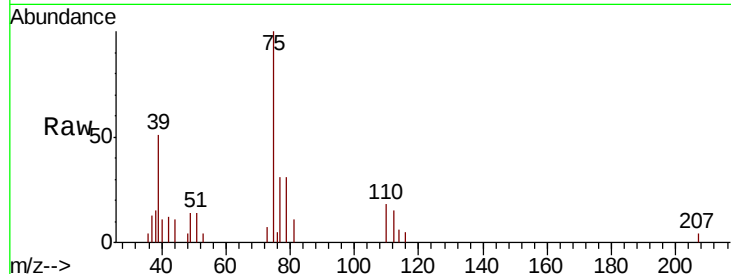
#39
 cis-1,3-Dichloropropene
 Concen: 1.81 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VU026162.D
 Acq: 15 Aug 2018 21:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.4	22.2	41.2

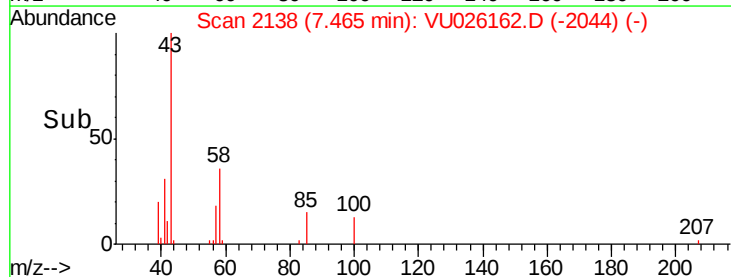
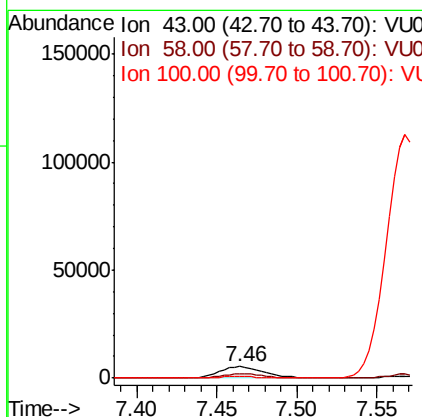
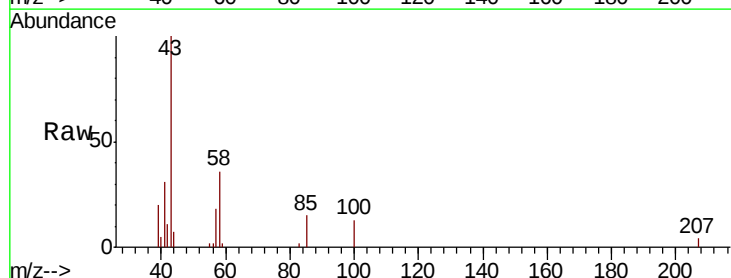
Manual Integrations
 APPROVED

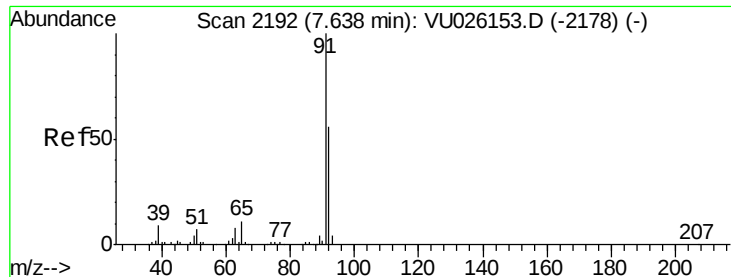
MMDadoda
 8/16/2018 4:20:24 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.00 ug/L
 RT: 7.46 min Scan# 2138
 Delta R.T. 0.00 min
 Lab File: VU026162.D
 Acq: 15 Aug 2018 21:36

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.7	31.8	47.8
100	12.0	12.2	18.2#





#42

Toluene

Concen: 1.91 ug/L

RT: 7.64 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 91 Resp: 14813

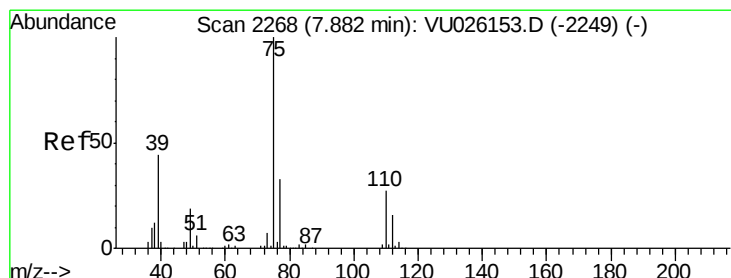
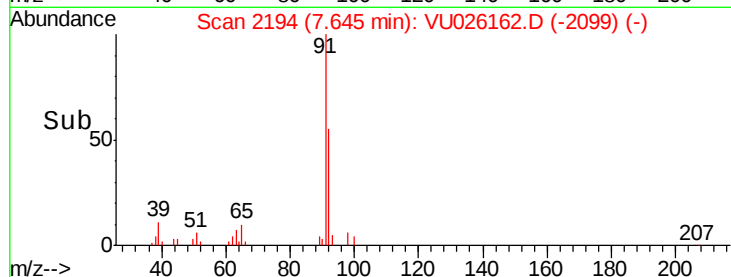
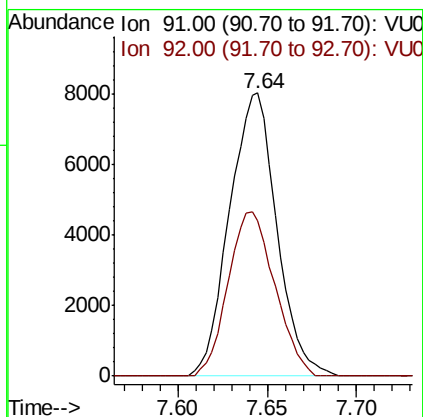
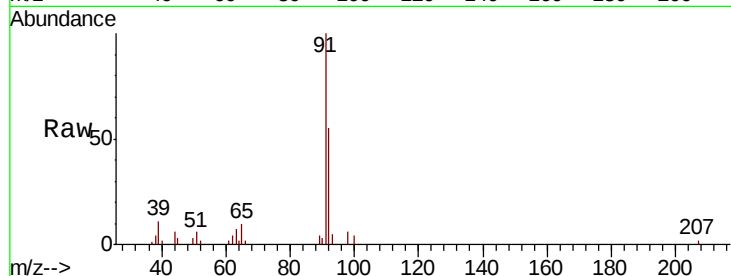
Ion Ratio Lower Upper

91 100

92 54.8 40.0 74.4

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:24 PM



#44

trans-1,3-Dichloropropene

Concen: 1.79 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU026162.D

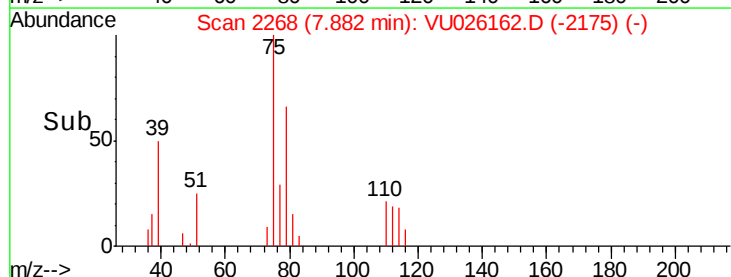
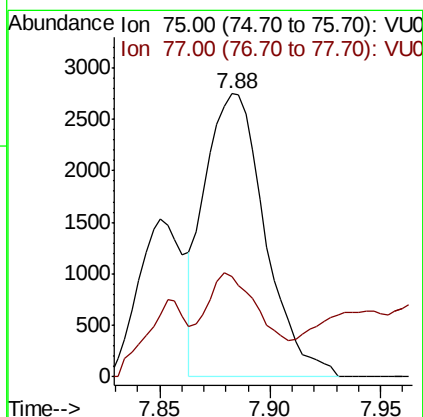
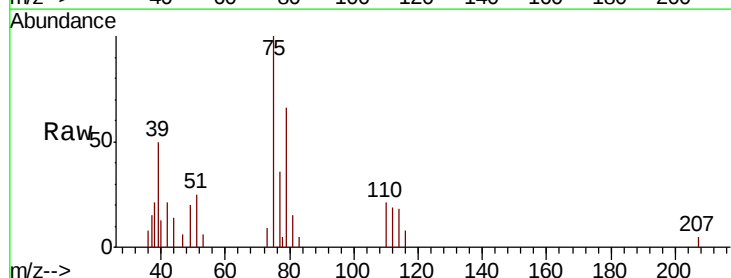
Acq: 15 Aug 2018 21:36

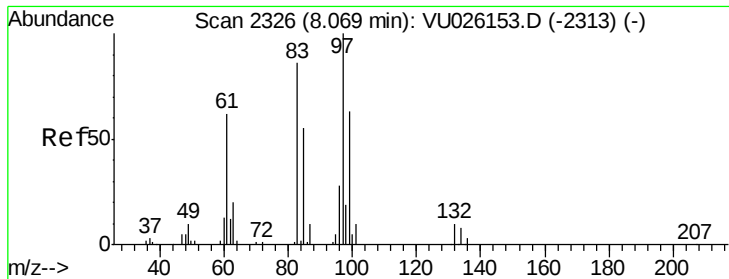
Tgt Ion: 75 Resp: 5210

Ion Ratio Lower Upper

75 100

77 35.6 22.0 41.0





#45

1,1,2-Trichloroethane

Concen: 2.11 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

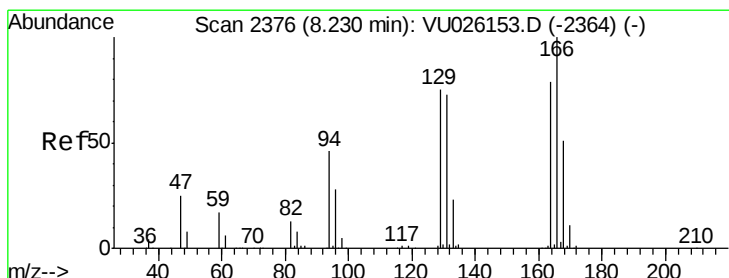
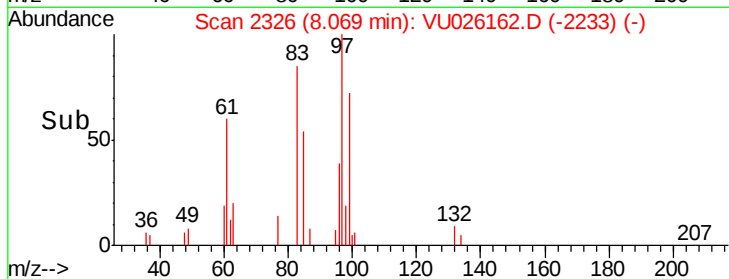
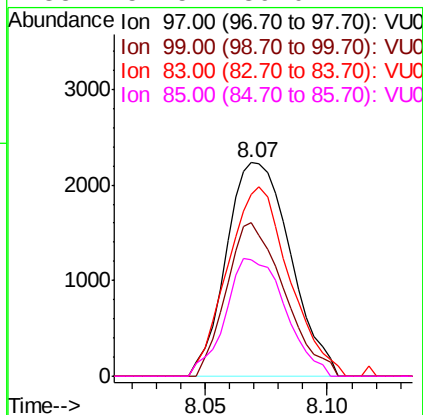
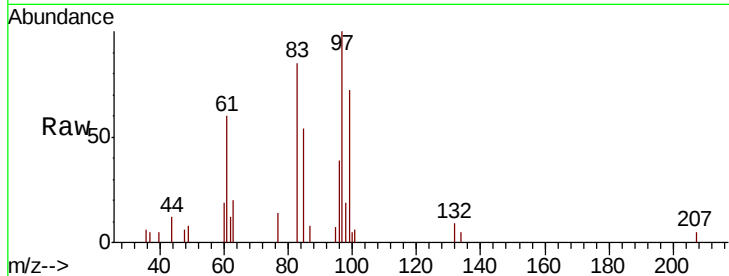
ClientSampleId :

MDL07

Tot Ion:	97	Resp:	4080
Ion	Ratio	Lower	Upper
97	100		
99	72.2	43.3	80.5
83	85.4	58.4	108.6
85	54.5	39.0	72.4

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:24 PM



#46

Tetrachloroethene

Concen: 1.95 ug/L

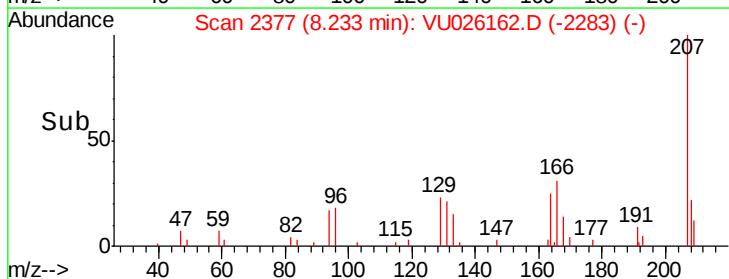
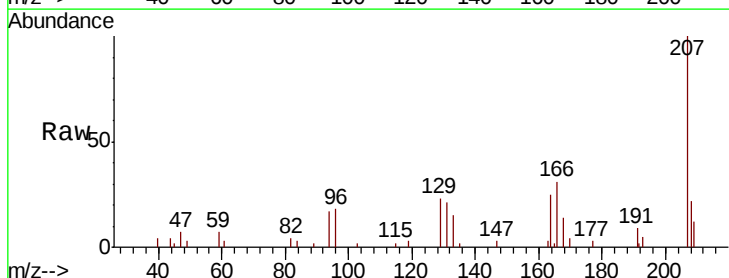
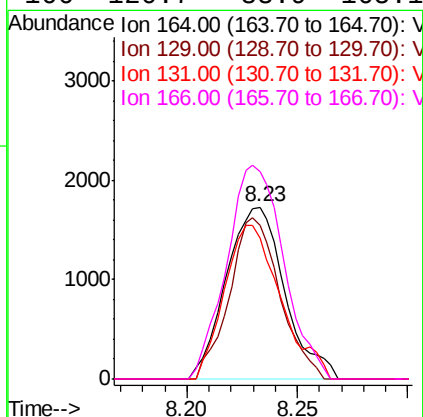
RT: 8.23 min Scan# 2377

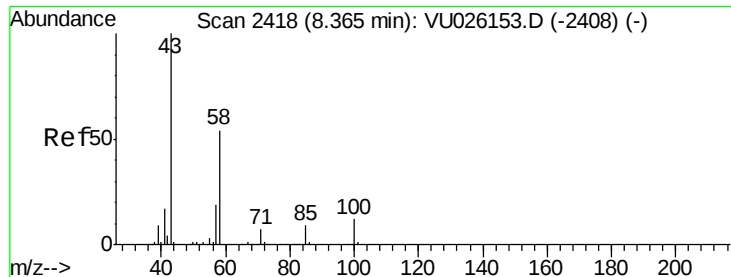
Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Tgt Ion:	164	Resp:	3191
Ion	Ratio	Lower	Upper
164	100		
129	89.1	65.7	121.9
131	81.9	62.0	115.2
166	120.7	88.9	165.1





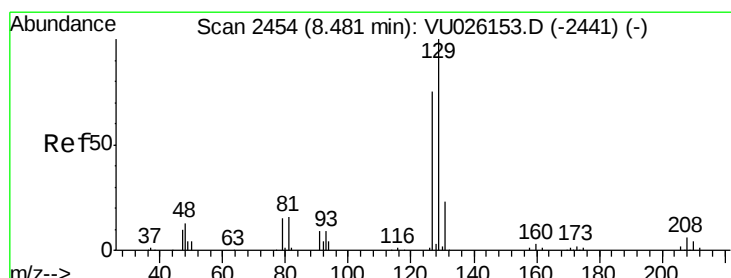
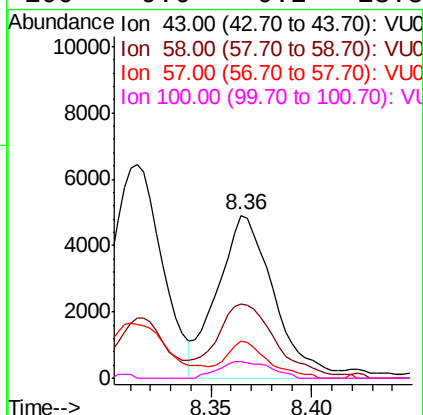
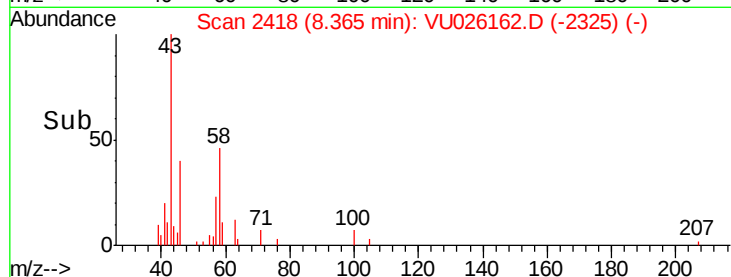
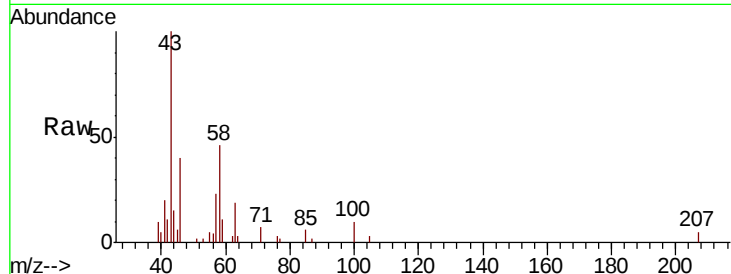
#48
2-Hexanone
Concen: 4.82 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Instrument :
MSVOA_U
ClientSampled :
MDL07

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.3	42.9	64.3
57	17.4	15.1	22.7
100	9.6	9.2	13.8

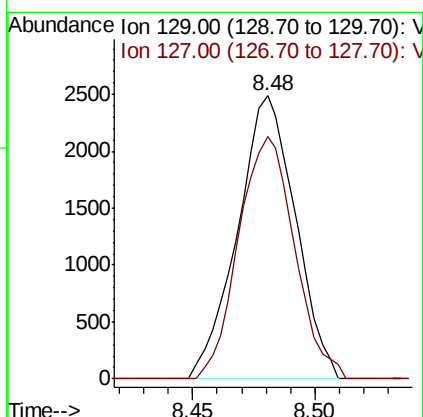
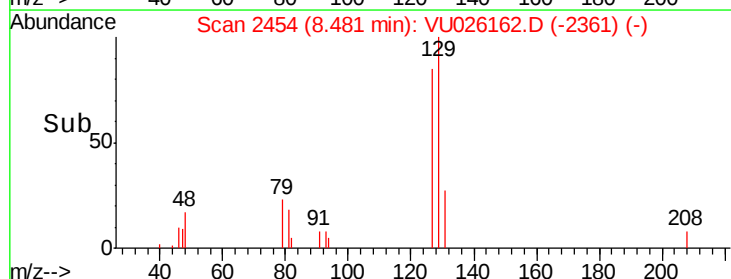
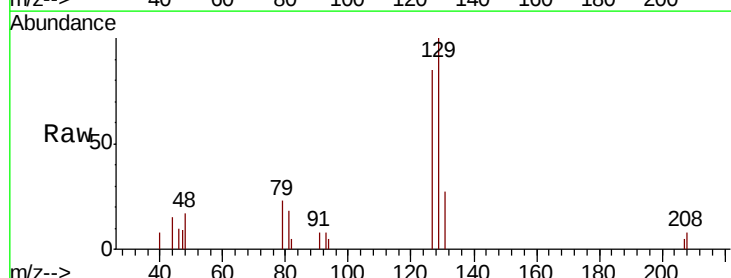
Manual Integrations
APPROVED

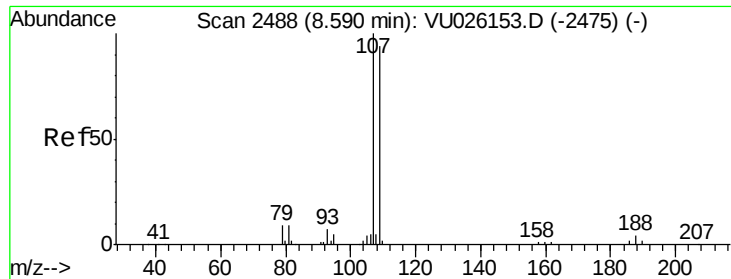
MMDadoda
8/16/2018 4:20:24 PM



#49
Dibromochloromethane
Concen: 1.76 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Tgt Ion	Ratio	Lower	Upper
129	100		
127	85.5	54.6	101.4





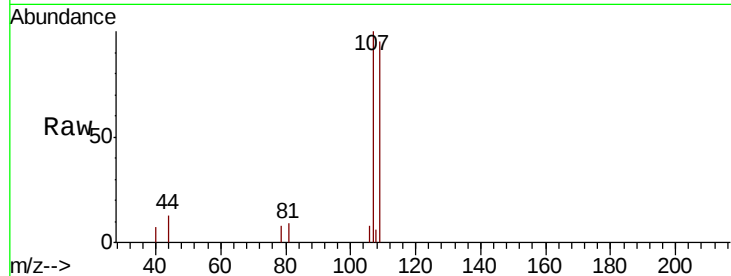
#50
1,2-Dibromoethane
Concen: 1.91 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Resp	Lower	Upper
107	100	3833		
109	94.7	66.1	122.7	
188	0.0	3.2	4.8#	

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:24 PM

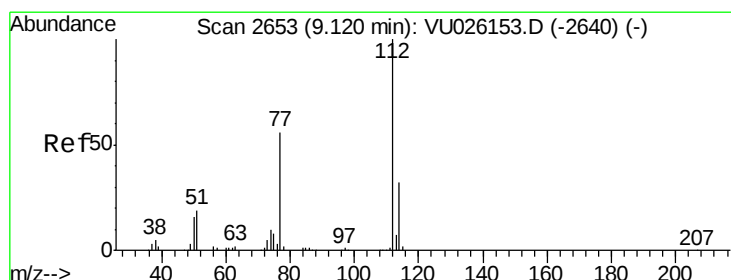
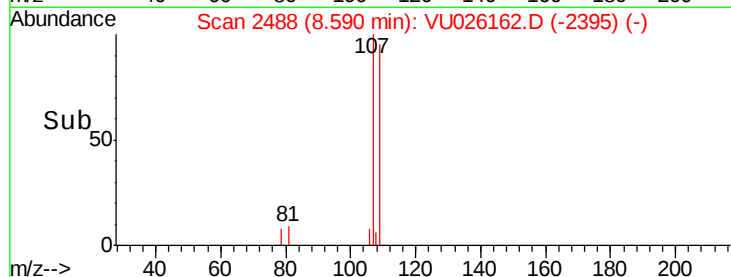
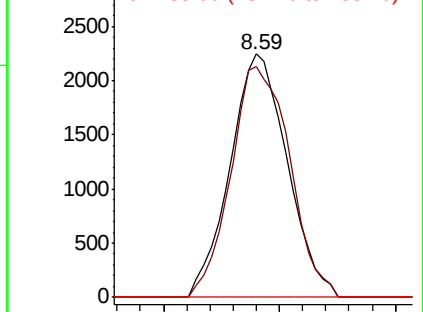


Abundance

Ion 107.00 (106.70 to 107.70): V

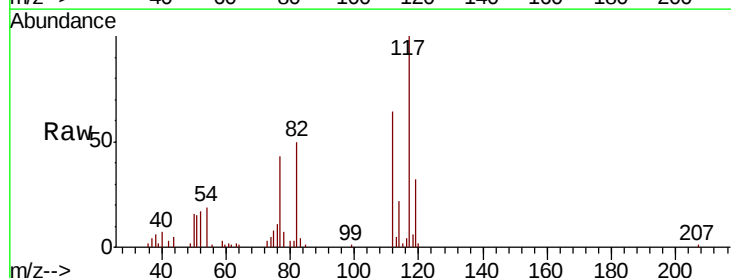
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 1.86 ug/L
RT: 9.12 min Scan# 2653
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	9838		
114	33.5	22.5	41.9	
77	66.1	45.0	67.4	

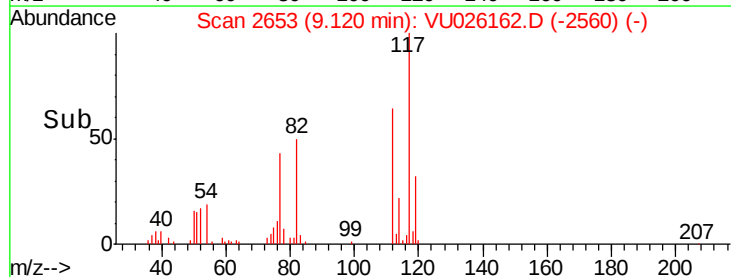
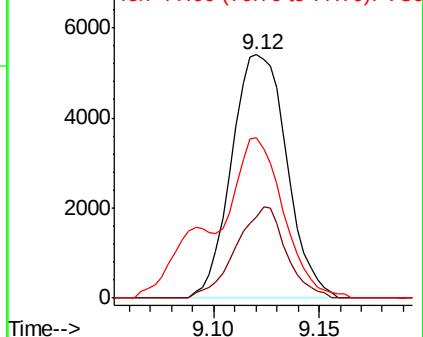


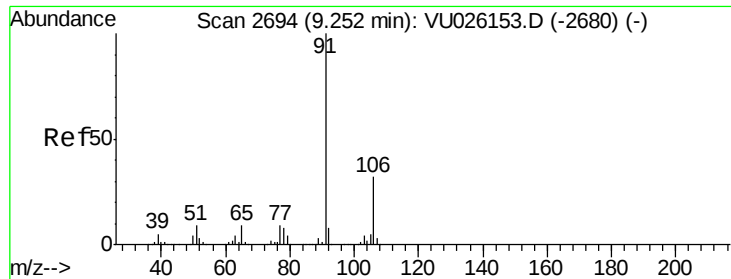
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 1.68 ug/L

RT: 9.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 91 Resp: 14205

Ion Ratio Lower Upper

91 100

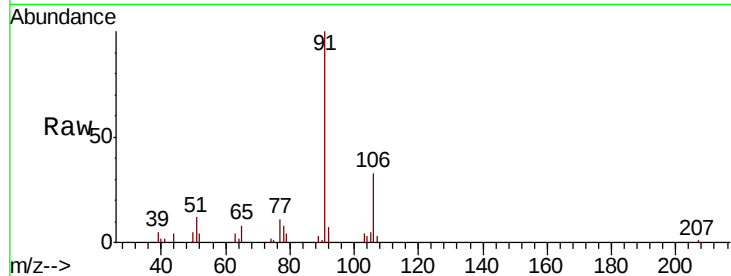
106 32.6 22.3 41.5

Manual Integrations

APPROVED

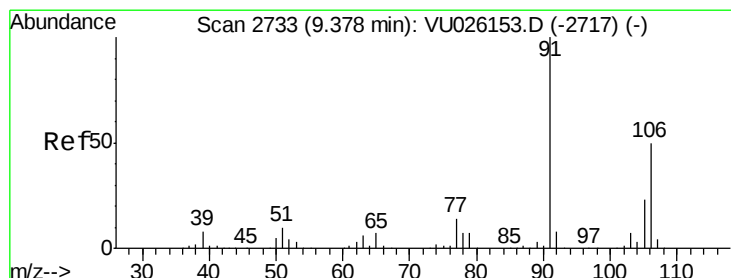
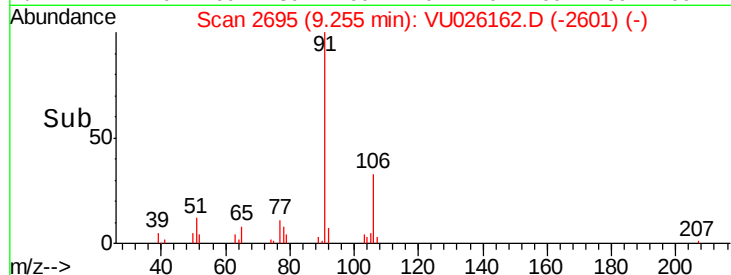
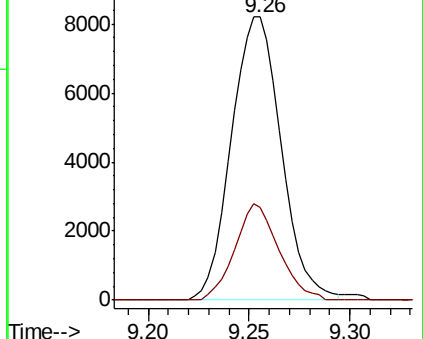
MMDadoda

8/16/2018 4:20:24 PM



Abundance Ion 91.00 (90.70 to 91.70): VU026153.D (-2680) (-)

Ion 106.00 (105.70 to 106.70): VU026153.D (-2680) (-)



#53

m,p-Xylene

Concen: 1.48 ug/L

RT: 9.37 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU026162.D

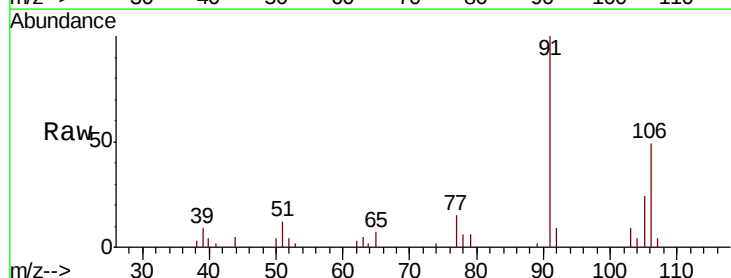
Acq: 15 Aug 2018 21:36

Tgt Ion: 106 Resp: 4802

Ion Ratio Lower Upper

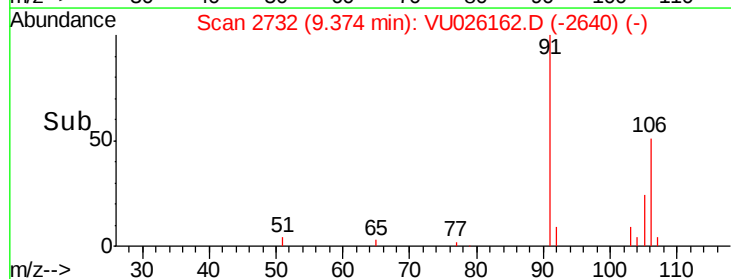
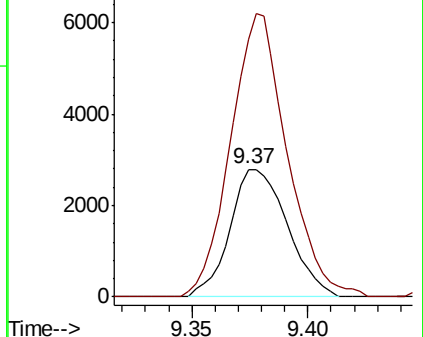
106 100

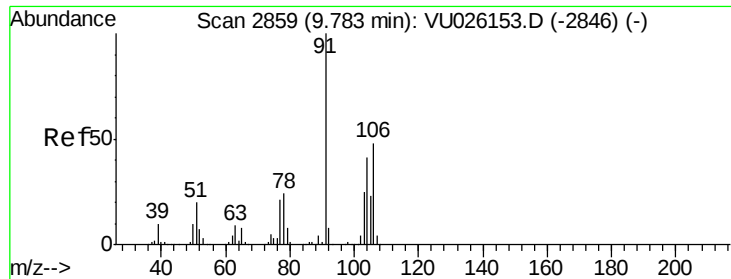
91 202.1 139.2 258.4



Abundance Ion 106.00 (105.70 to 106.70): VU026153.D (-2717) (-)

Ion 91.00 (90.70 to 91.70): VU026153.D (-2717) (-)





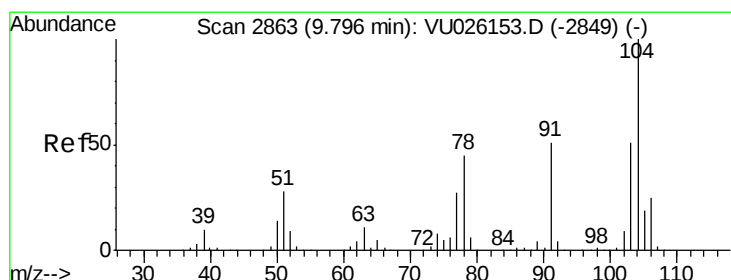
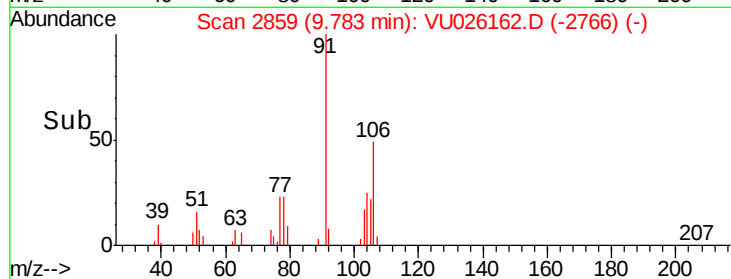
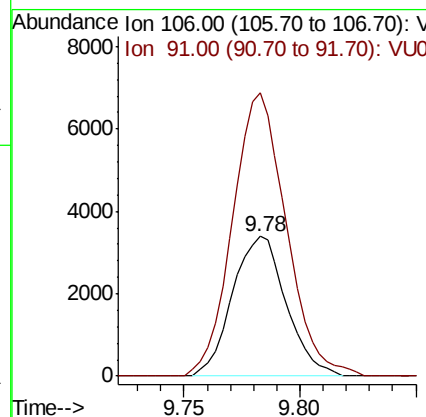
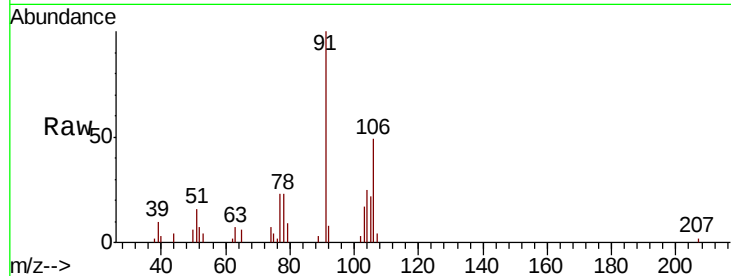
#54
o-xylene
Concen: 1.68 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Instrument :
MSVOA_U
ClientSampled :
MDL07

Tot Ion	Ratio	Lower	Upper
106	100		
91	202.3	148.0	274.8

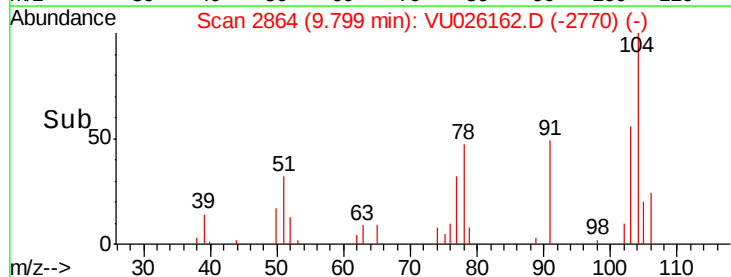
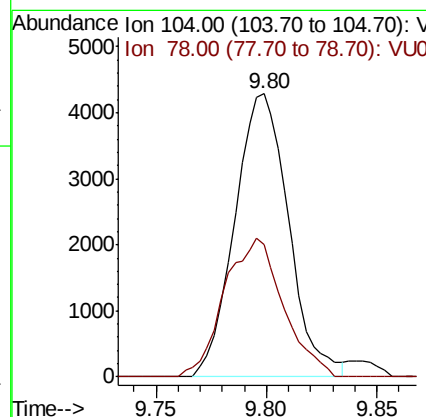
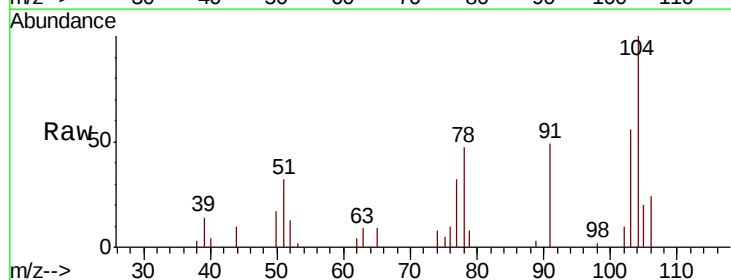
Manual Integrations
APPROVED

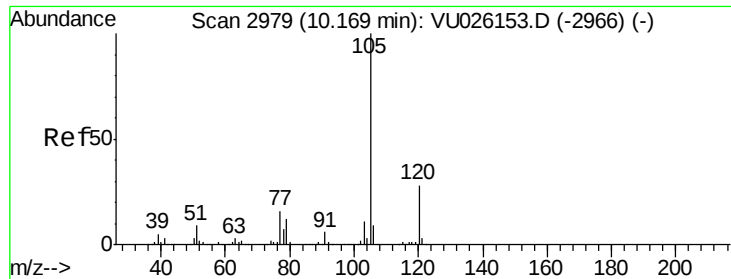
MMDadoda
8/16/2018 4:20:24 PM



#55
Styrene
Concen: 1.35 ug/L
RT: 9.80 min Scan# 2864
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Tgt Ion	Ratio	Lower	Upper
104	100		
78	46.8	30.9	57.5





#56

Isopropylbenzene

Concen: 1.45 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

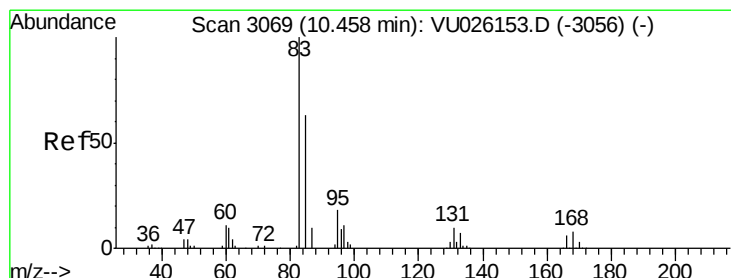
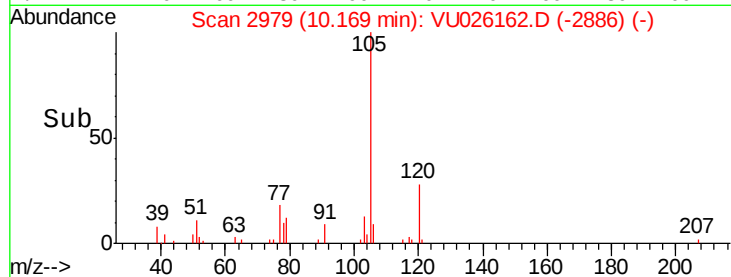
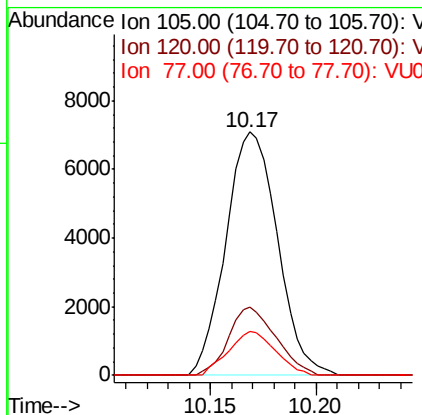
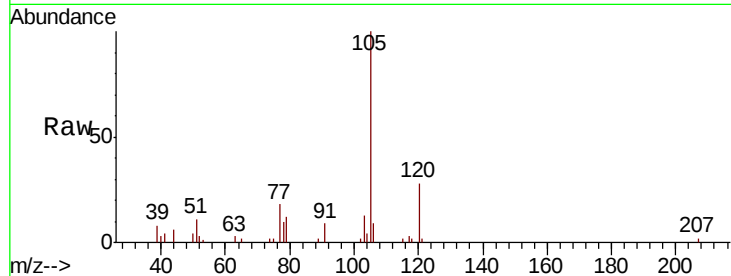
ClientSampleId :

MDL07

Tot Ion:	105	Resp:	12059
Ion Ratio	Lower	Upper	
105	100		
120	25.6	21.5	32.3
77	16.3	12.3	18.5

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:24 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 2.14 ug/L

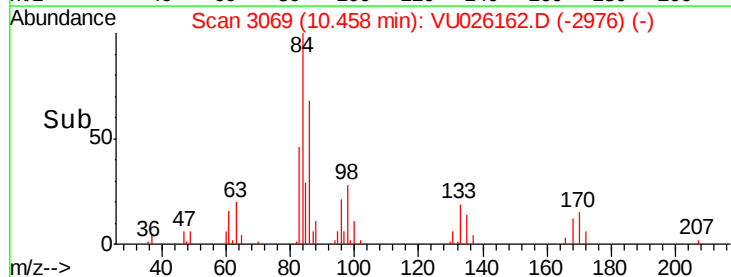
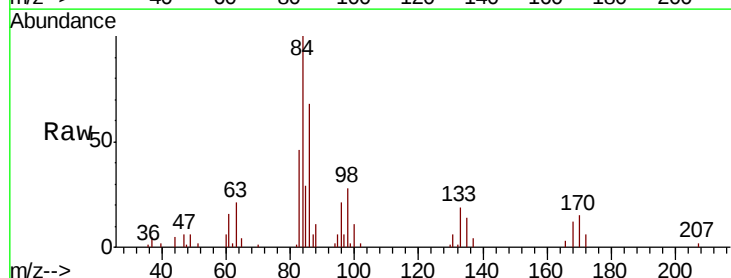
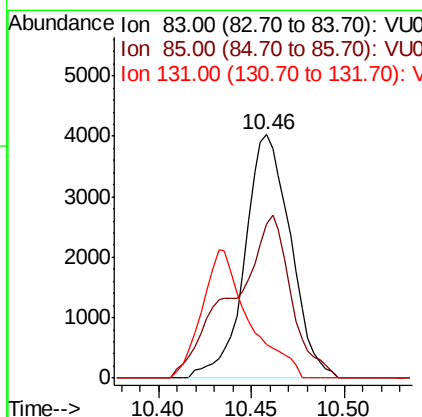
RT: 10.46 min Scan# 3069

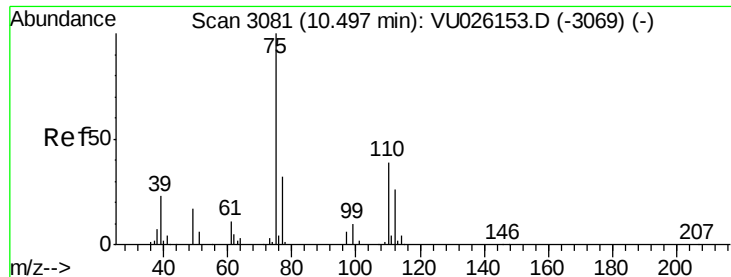
Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Tgt Ion:	83	Resp:	6906
Ion Ratio	Lower	Upper	
83	100		
85	63.3	45.0	83.6
131	14.1	8.4	12.6#





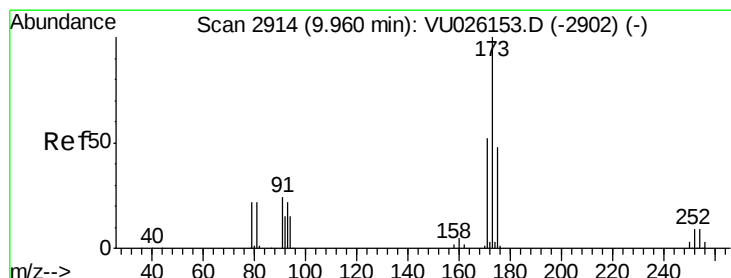
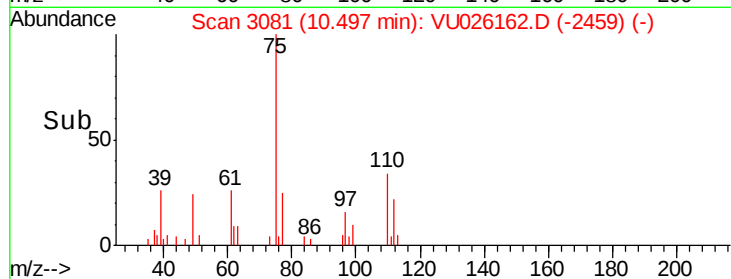
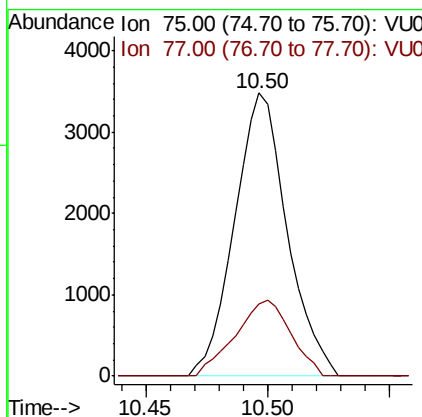
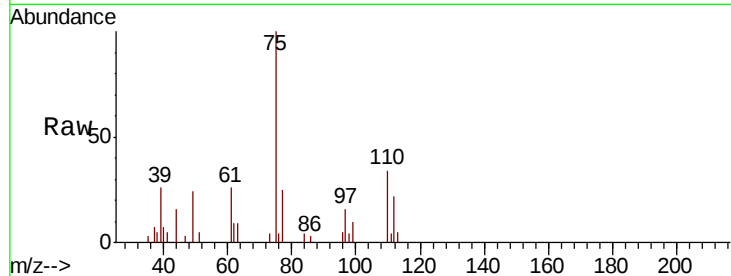
#59
 1,2,3-Trichloropropane
 Concen: 2.07 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. 0.00 min
 Lab File: VU026162.D
 Acq: 15 Aug 2018 21:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion: 75 Resp: 5201
 Ion Ratio Lower Upper
 75 100
 77 28.3 26.1 39.1

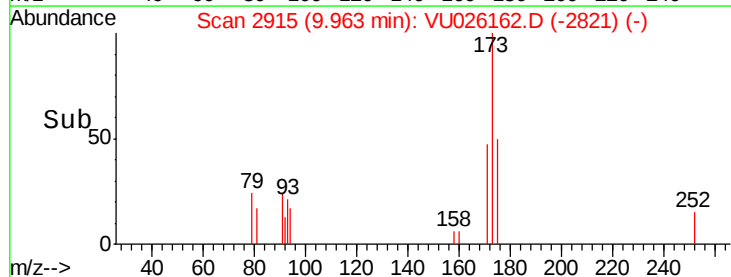
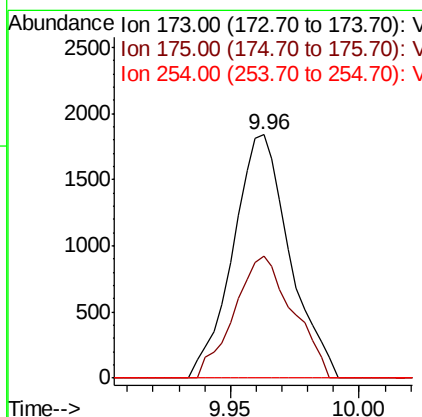
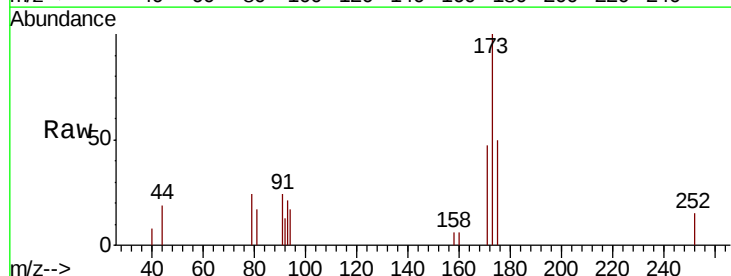
Manual Integrations
 APPROVED

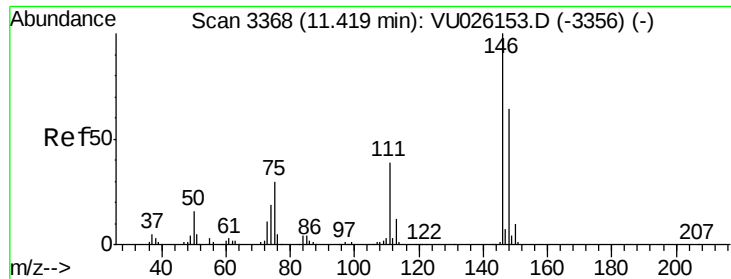
MMDadoda
 8/16/2018 4:20:24 PM



#61
 Bromoform
 Concen: 1.90 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU026162.D
 Acq: 15 Aug 2018 21:36

Tgt Ion: 173 Resp: 2816
 Ion Ratio Lower Upper
 173 100
 175 51.9 38.8 58.2
 254 0.0 7.3 10.9#





#62

1,3-Dichlorobenzene

Concen: 1.75 ug/L

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

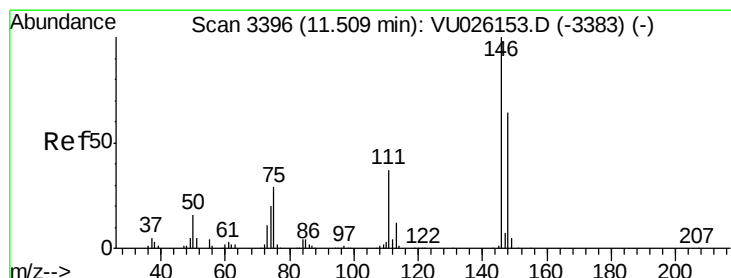
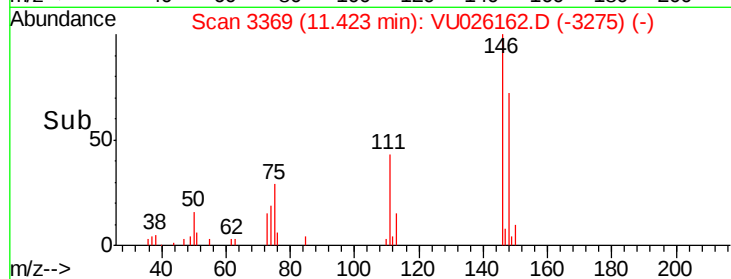
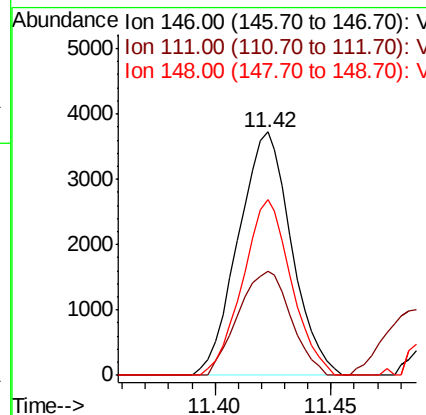
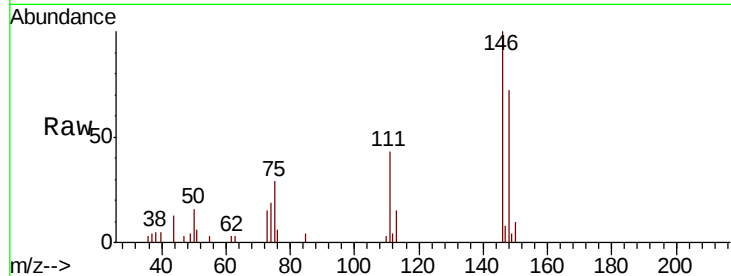
ClientSampled :

MDL07

Tot Ion:	146	Resp:	5932
Ion	Ratio	Lower	Upper
146	100		
111	42.6	26.7	49.7
148	72.2	44.1	81.9

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:24 PM



#63

1,4-Dichlorobenzene

Concen: 2.01 ug/L

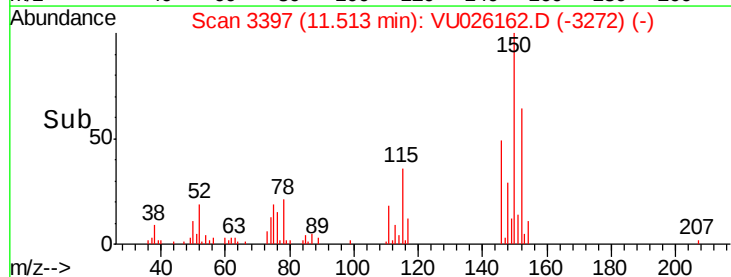
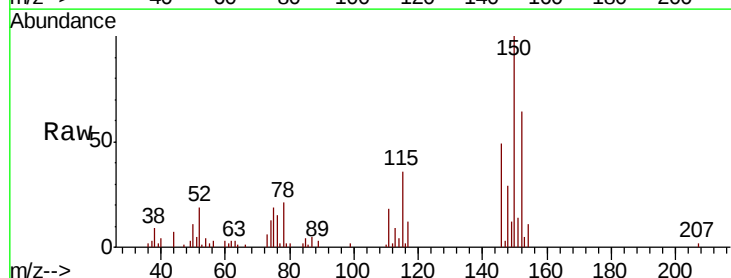
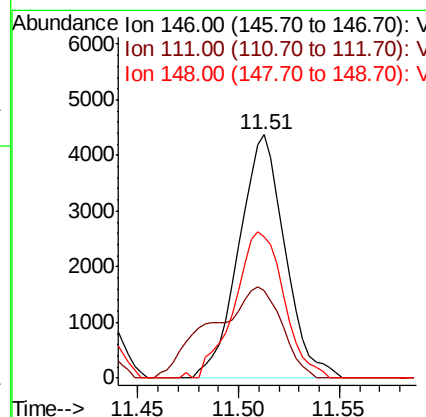
RT: 11.51 min Scan# 3397

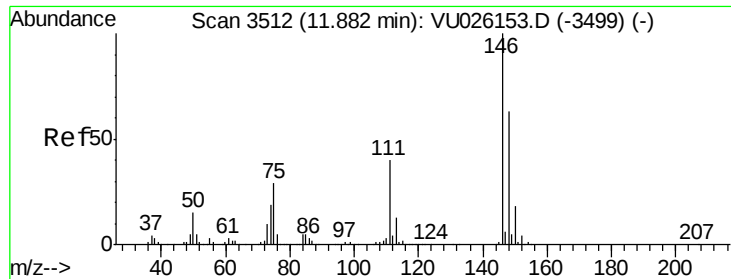
Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Tgt Ion:	146	Resp:	7012
Ion	Ratio	Lower	Upper
146	100		
111	35.7	27.5	51.1
148	58.0	44.8	83.2





#65

1,2-Dichlorobenzene

Concen: 2.08 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Instrument :

MSVOA_U

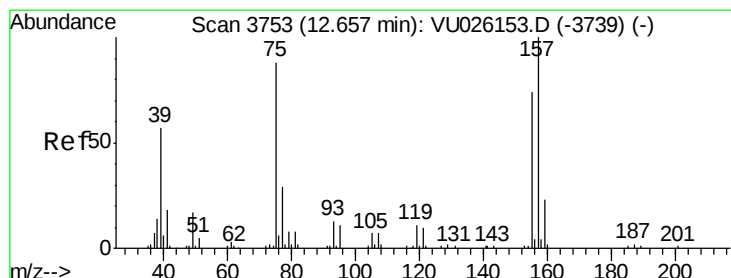
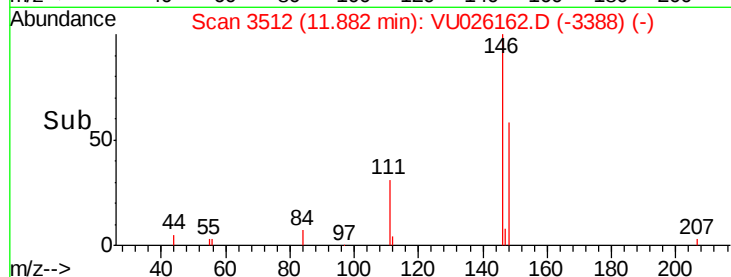
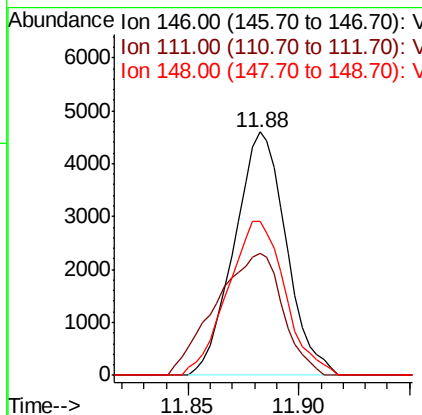
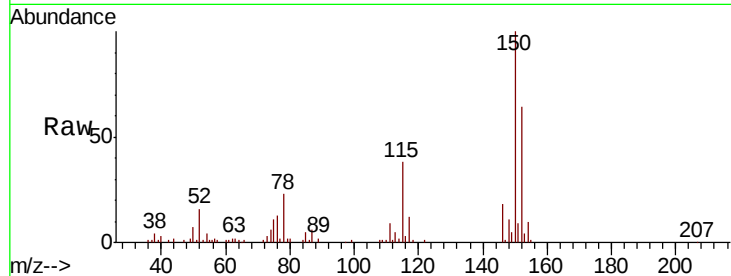
ClientSampleId :

MDL07

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.3	32.7	49.1#
148	63.5	51.4	77.2

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:24 PM



#66

1,2-Dibromo-3-chloropropane

Concen: 2.06 ug/L

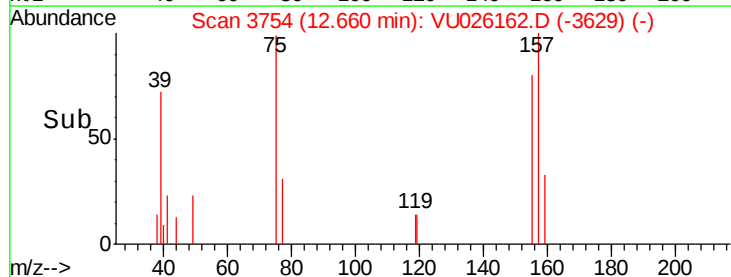
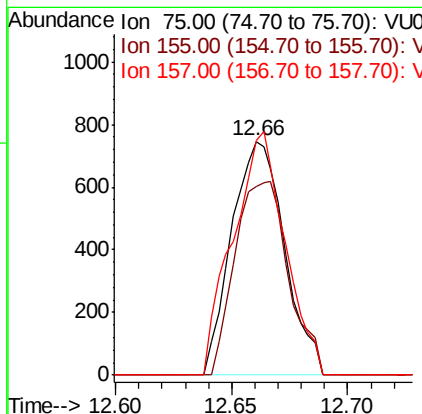
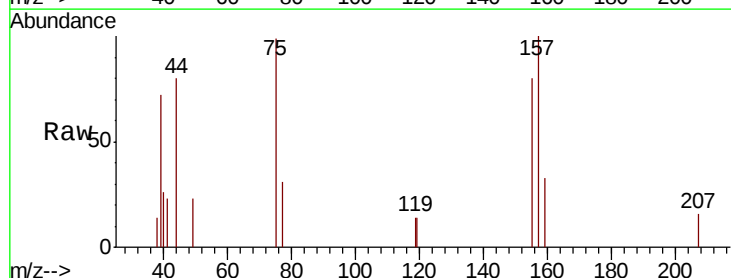
RT: 12.66 min Scan# 3754

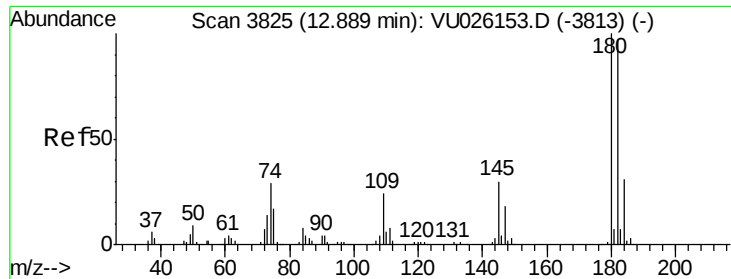
Delta R.T. 0.00 min

Lab File: VU026162.D

Acq: 15 Aug 2018 21:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.7	68.2	102.2
157	100.5	90.5	135.7





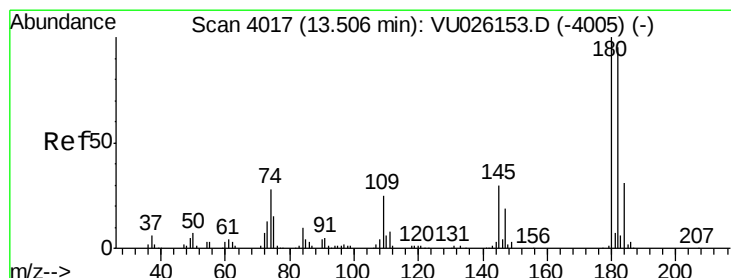
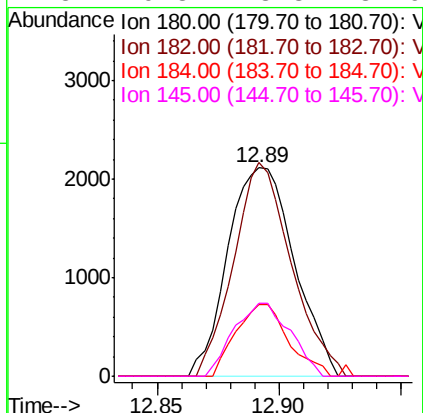
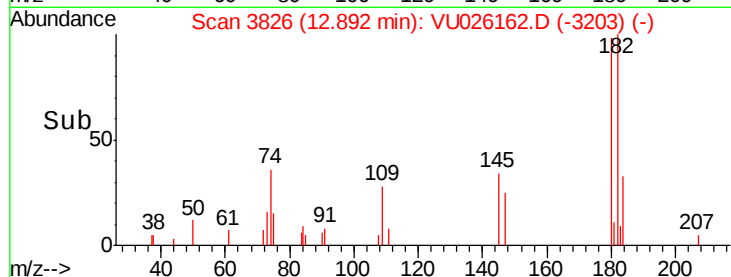
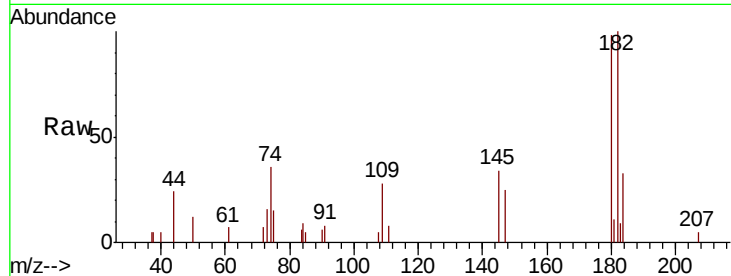
#67
 1,3,5-Trichlorobenzene
 Concen: 1.60 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU026162.D
 Acq: 15 Aug 2018 21:36

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Resp	Lower	Upper
180	100	3996		
182	88.6		75.6	113.4
184	27.3		24.3	36.5
145	29.8		23.3	34.9

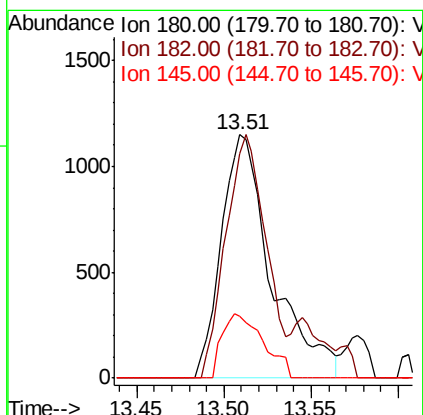
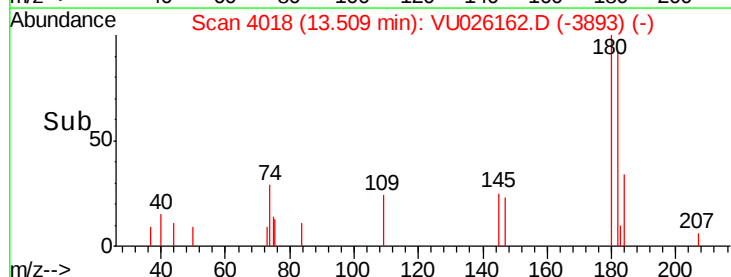
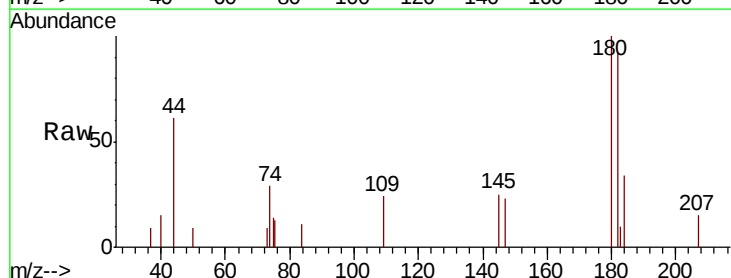
Manual Integrations
 APPROVED

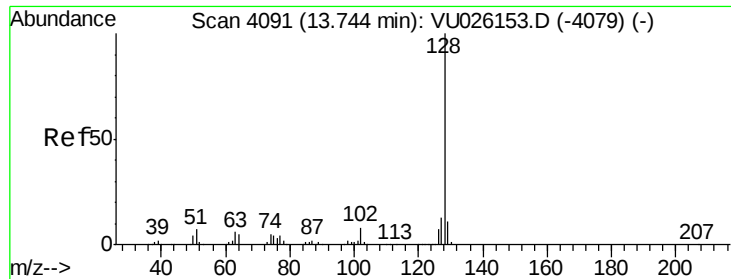
MMDadoda
 8/16/2018 4:20:24 PM



#68
 1,2,4-trichlorobenzene
 Concen: 1.21 ug/L m
 RT: 13.51 min Scan# 4018
 Delta R.T. 0.00 min
 Lab File: VU026162.D
 Acq: 15 Aug 2018 21:36

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	2303		
182	79.5		76.8	115.2
145	20.0		23.8	35.6#





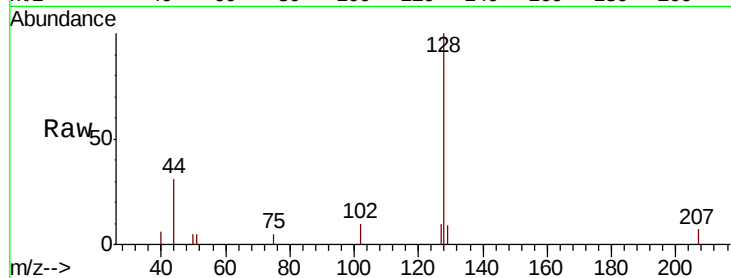
#69
Naphthalene
Concen: 1.29 ug/L m
RT: 13.76 min Scan# 4096
Delta R.T. 0.02 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Instrument :
MSVOA_U
ClientSampleId :
MDL07

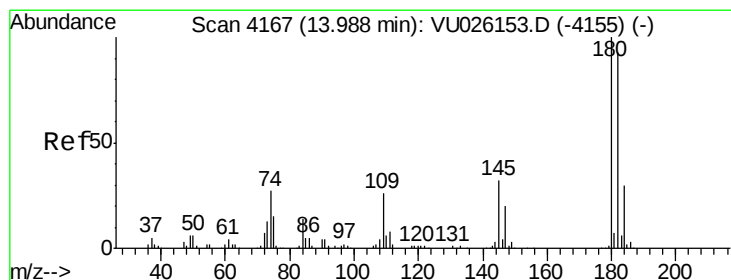
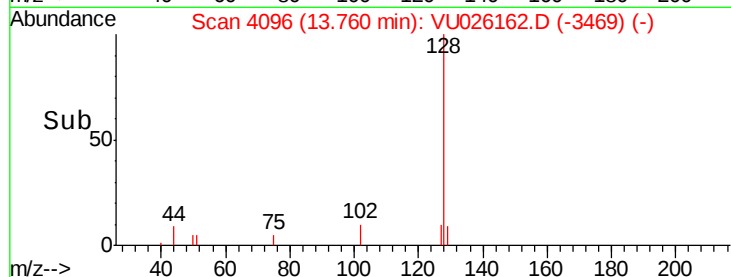
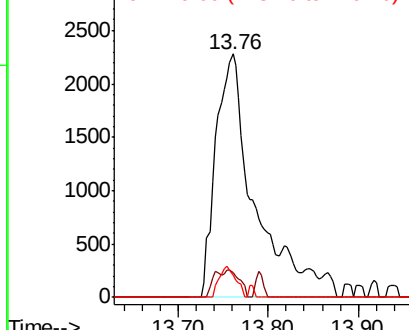
Tot Ion	Ratio	Lower	Upper
128	100		
127	4.5	10.3	15.5#
129	5.4	8.6	13.0#

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:24 PM

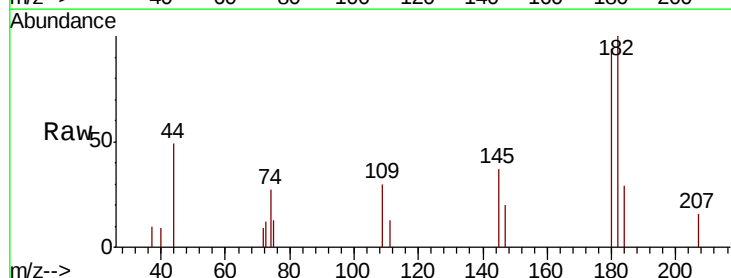


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70
1,2,3-Trichlorobenzene
Concen: 1.30 ug/L m
RT: 13.99 min Scan# 4168
Delta R.T. 0.00 min
Lab File: VU026162.D
Acq: 15 Aug 2018 21:36

Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.8	77.1	115.7
145	31.8	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

