

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051620.D
 Acq On : 28 Sep 2018 17:34
 Operator : MD\SY
 Sample : J4870-02DL 2X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 PT-VOA-WPDL

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:43 PM

Quant Time: Sep 29 05:11:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 01:07:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	75984	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	550430	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	484597	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	221802	41.92	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	139.73%
60) 4-Bromofluorobenzene	12.40	95	211965	28.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.83%
63) Toluene-d8	10.09	98	694604	30.38	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.27%

Target Compounds

					Ovalue
3) Chloromethane	2.06	50	4902	0.657	ug/l 97
4) Vinyl Chloride	2.18	62	221249	30.224	ug/l 97
5) Bromomethane	2.57	94	166525	43.794	ug/l 97
6) Chloroethane	2.70	64	79184	21.562	ug/l 98
11) Methyl Iodide	3.96	142	5464	0.925	ug/l 87
12) Methyl Acetate	4.33	43	3205m	0.792	ug/l
15) Acetone	3.82	58	20819	48.965	ug/l 87
18) Methylene Chloride	4.55	84	65079	12.338	ug/l 92
19) trans-1,2-Dichloroethene	5.05	96	48525	9.963	ug/l 93
21) 1,1-Dichloroethane	5.85	63	212474	22.019	ug/l 100
24) Methyl tert-Butyl Ether	5.05	73	544203	45.132	ug/l 100
25) Chloroform	7.37	83	229325	24.855	ug/l 97
30) 2-Butanone	6.84	43	140472	54.990	ug/l # 95
32) 1,1,1-Trichloroethane	7.57	97	66154	6.273	ug/l 96
34) Benzene	8.04	78	1070170	38.431	ug/l 95
37) Trichloroethene	8.84	130	239647	33.520	ug/l 100
39) 1,2-Dichloropropane	9.12	63	327242	42.888	ug/l 98
40) Dibromomethane	9.21	93	248643	58.662	ug/l 98
49) cis-1,3-Dichloropropene	9.84	75	522905	48.434	ug/l 100
53) Dibromochloromethane	10.90	129	216522	31.738	ug/l 100
54) 1,2-Dibromoethane	11.01	107	261622	45.518	ug/l 100
56) Bromoform	12.13	173	197295	43.583	ug/l 100
58) 4-Methyl-2-Pentanone	9.99	43	385400	70.048	ug/l 98
59) 2-Hexanone	10.75	43	209836	57.973	ug/l 98
61) Tetrachloroethene	10.63	164	167111	24.357	ug/l 98
62) Toluene	10.16	91	716901	24.127	ug/l 99
64) Chlorobenzene	11.43	112	358807	19.972	ug/l 100
65) 1,1,1,2-Tetrachloroethane	11.51	131	449796	65.566	ug/l 100
66) Ethyl Benzene	11.51	91	218022	7.169	ug/l 100
67) m/p-Xylenes	11.62	106	203287	17.345	ug/l 99
68) o-Xylene	11.95	106	418973	37.447	ug/l 97
69) Styrene	11.96	104	991750	56.474	ug/l 96
71) 1,1,2,2-Tetrachloroethane	12.51	83	484540	67.105	ug/l 98
72) 1,2,3-Trichloropropane	12.56	75	403788	65.408	ug/l 1
76) 1,3,5-Trimethylbenzene	12.73	105	572106	22.941	ug/l 100
80) 1,2,4-Trimethylbenzene	13.04	105	958779	38.492	ug/l 100
83) 1,3-Dichlorobenzene	13.28	146	687713	53.139	ug/l 100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051620.D
 Acq On : 28 Sep 2018 17:34
 Operator : MD\SY
 Sample : J4870-02DL 2X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WPDL

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:43 PM

Quant Time: Sep 29 05:11:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 01:07:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) 1,4-Dichlorobenzene	13.36	146	486380	39.981	ug/l	99
86) Hexachloroethane	13.87	117	3768	0.739	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	346178	27.344	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	40105	38.108	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	324480	54.760	ug/l	97
90) Hexachlorobutadiene	15.01	225	413275	85.550	ug/l	98
91) Naphthalene	15.13	128	724637	49.890	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	8953	1.502	ug/l	92

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

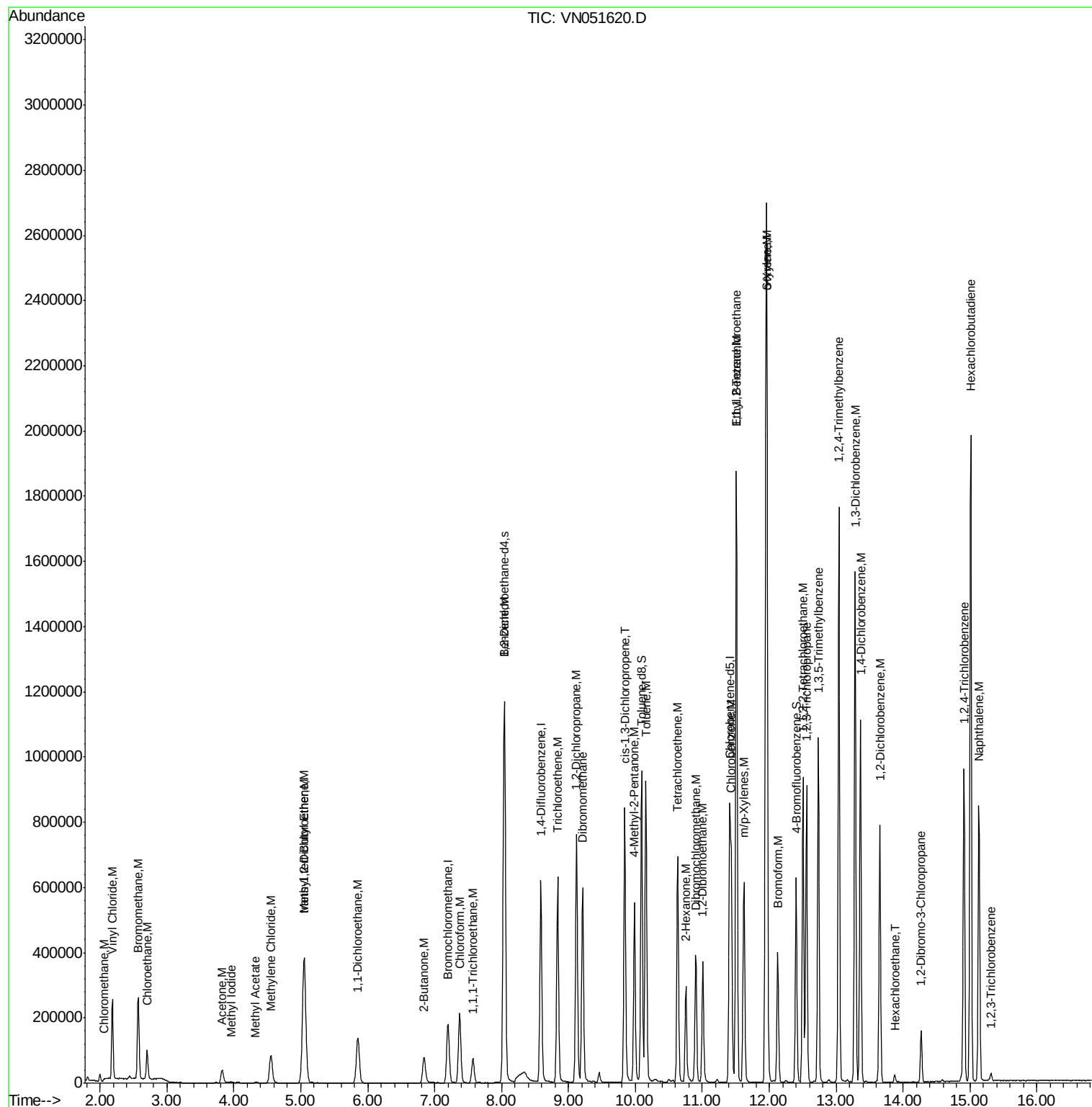
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
Data File : VN051620.D
Acq On : 28 Sep 2018 17:34
Operator : MD\SY
Sample : J4870-02DL 2X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 16 Sample Multiplier: 28

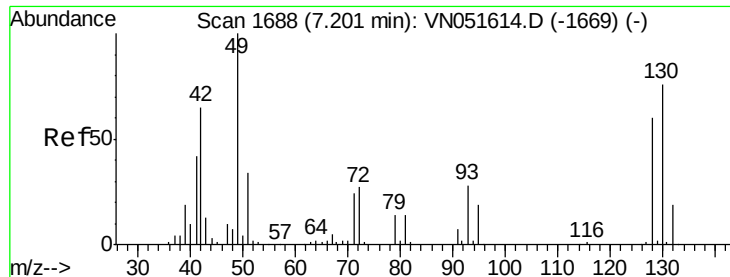
Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:43 PM

Quant Time: Sep 29 05:11:23 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Sep 29 01:07:29 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.01 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Instrument :

MSVOA_N

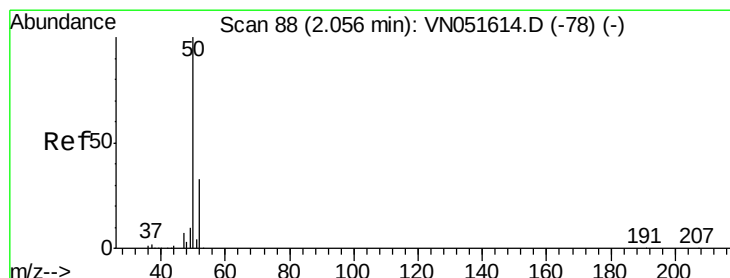
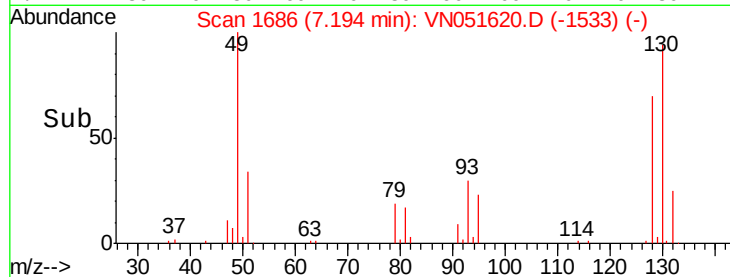
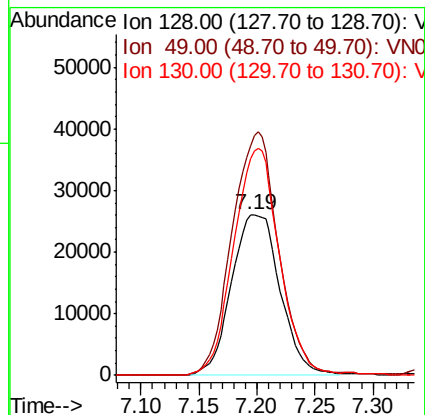
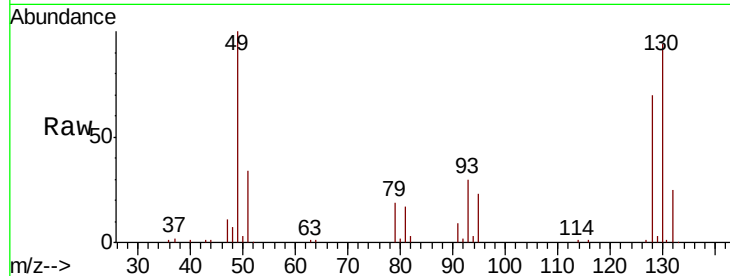
ClientSampleId :

PT-VOA-WPDL

Tot Ion:	128	Resp:	75984
Ion	Ratio	Lower	Upper
128	100		
49	144.9	0.0	426.8
130	132.8	0.0	326.3

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:43 PM



#3

Chloromethane

Concen: 0.657 ug/l

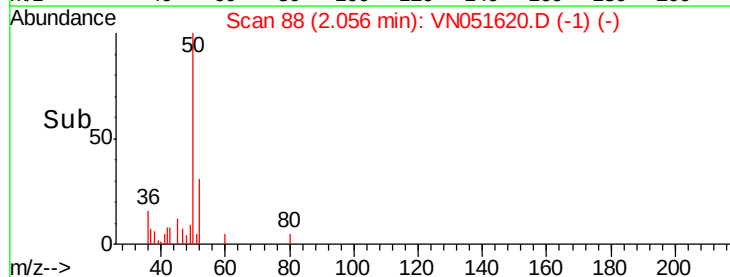
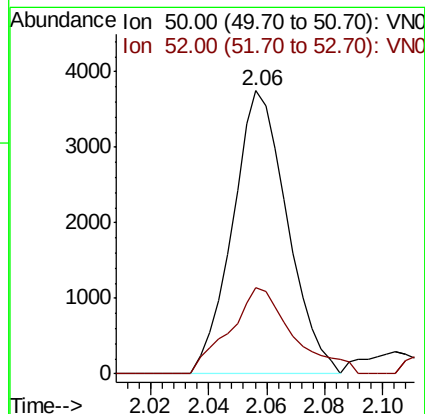
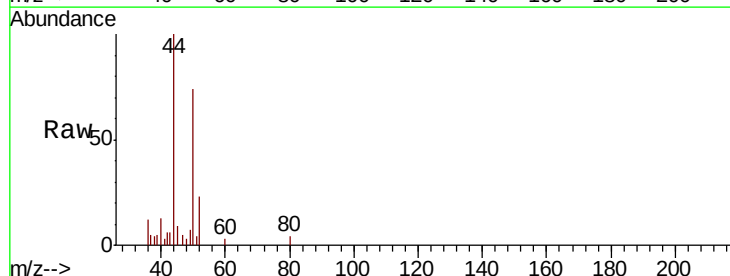
RT: 2.06 min Scan# 88

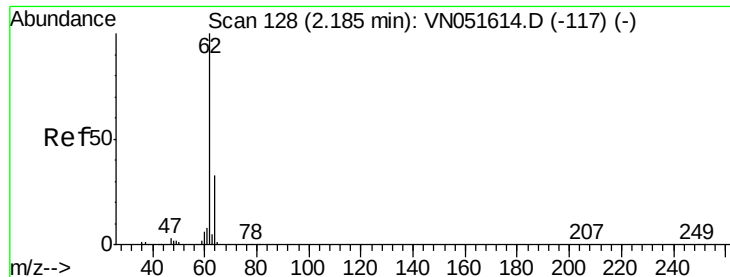
Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Tgt Ion:	50	Resp:	4902
Ion	Ratio	Lower	Upper
50	100		
52	30.6	26.0	39.0





#4

Vinyl Chloride

Concen: 30.224 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WPDL

Tot Ion: 62 Resp: 221249

Ion Ratio Lower Upper

62 100

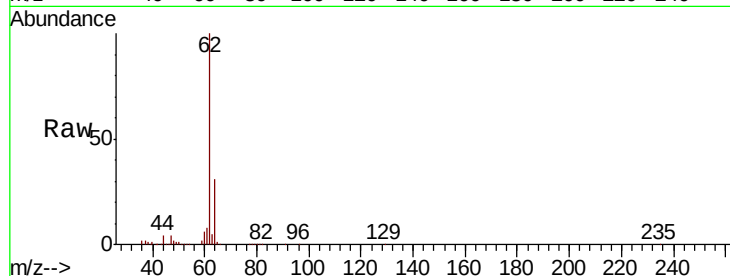
64 31.1 26.3 39.5

Manual Integrations

APPROVED

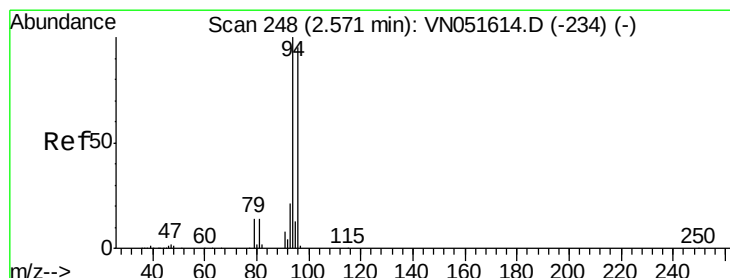
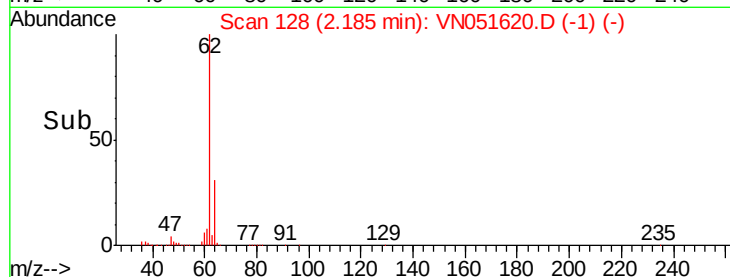
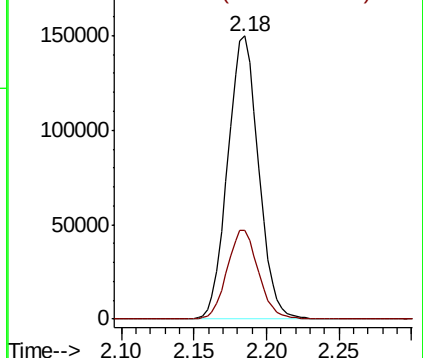
MMDadoda

10/3/2018 5:27:43 PM



Abundance Ion 62.00 (61.70 to 62.70): VNO

Ion 64.00 (63.70 to 64.70): VNO



#5

Bromomethane

Concen: 43.794 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN051620.D

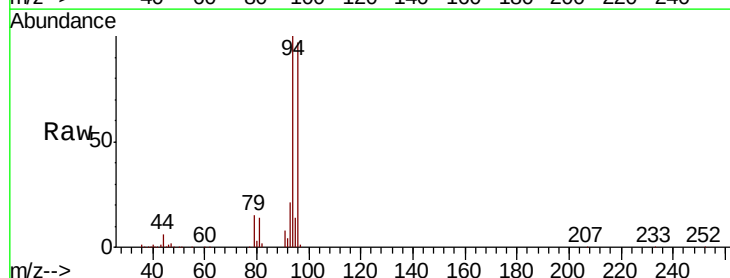
Acq: 28 Sep 2018 17:34

Tgt Ion: 94 Resp: 166525

Ion Ratio Lower Upper

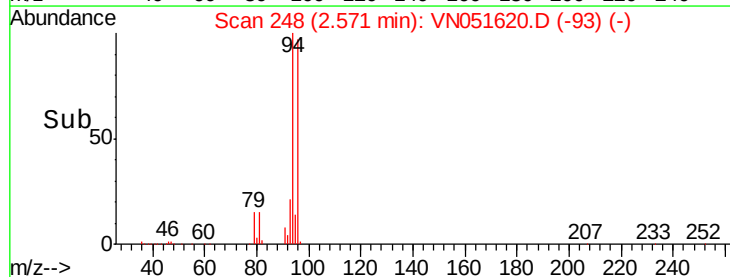
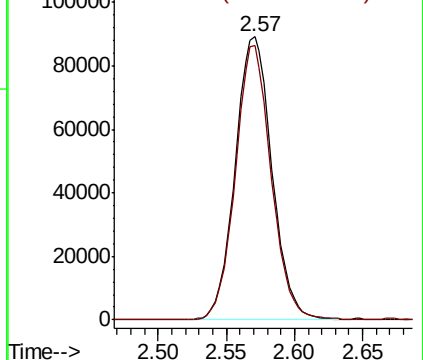
94 100

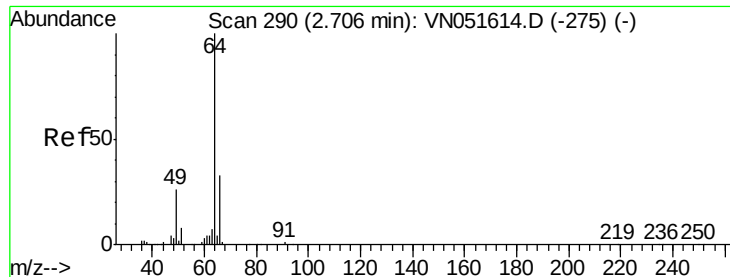
96 97.1 75.8 113.6



Abundance Ion 94.00 (93.70 to 94.70): VNO

Ion 96.00 (95.70 to 96.70): VNO





#6

Chloroethane

Concen: 21.562 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WPDL

Tot Ion: 64 Resp: 79184

Ion Ratio Lower Upper

64 100

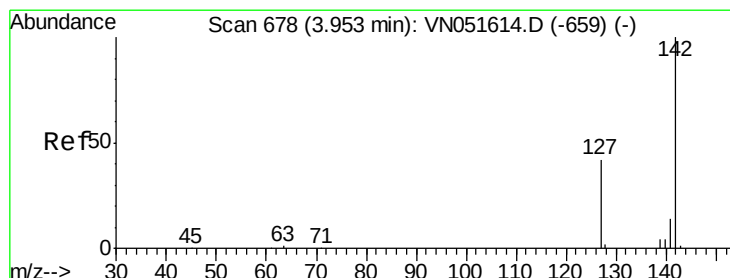
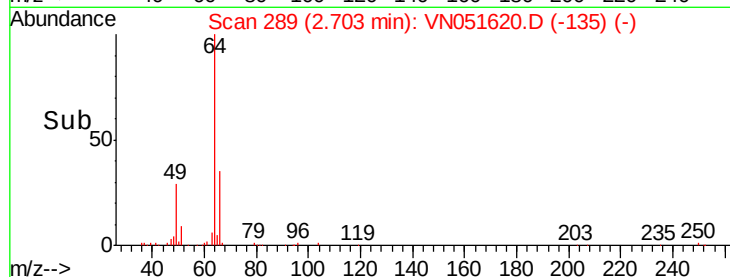
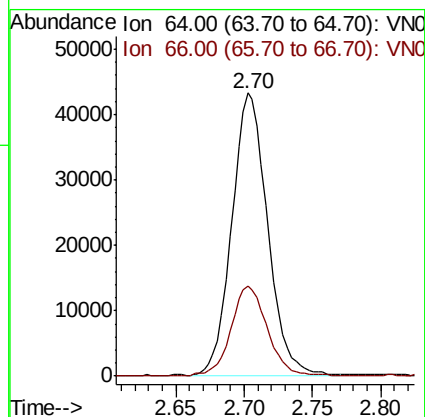
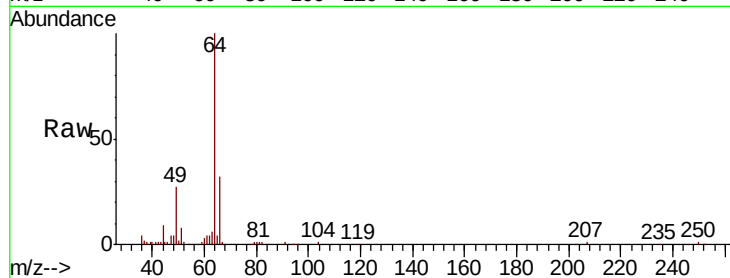
66 31.3 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:43 PM



#11

Methyl Iodide

Concen: 0.925 ug/l

RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

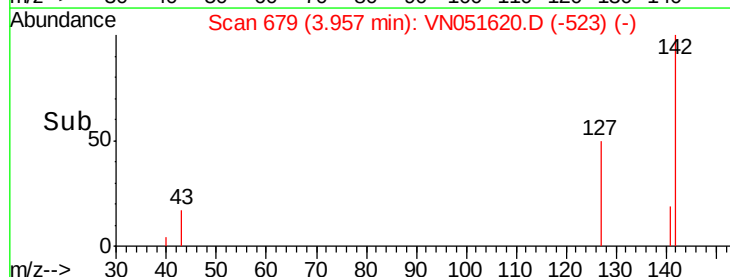
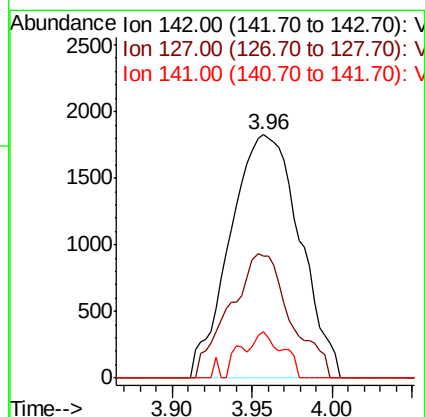
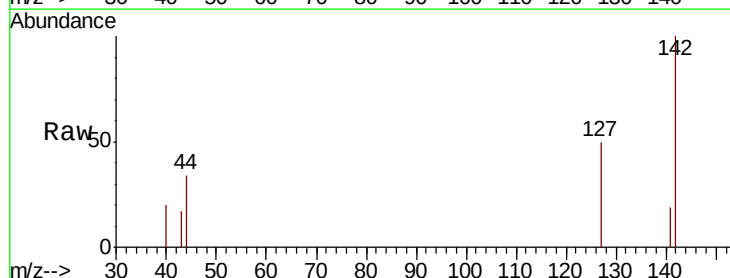
Tgt Ion: 142 Resp: 5464

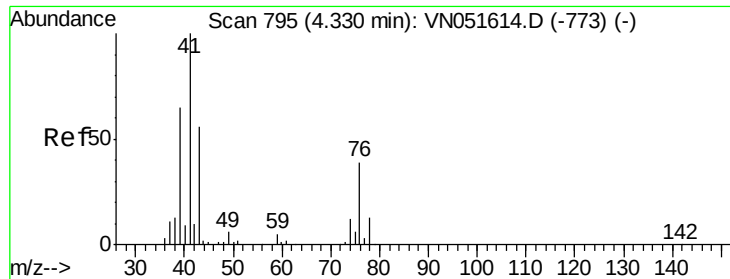
Ion Ratio Lower Upper

142 100

127 50.4 21.1 63.1

141 19.2 7.1 21.4





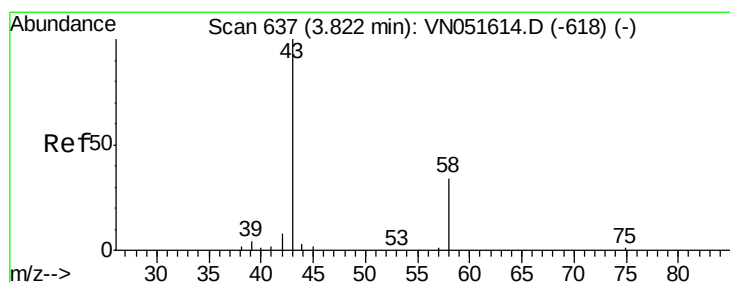
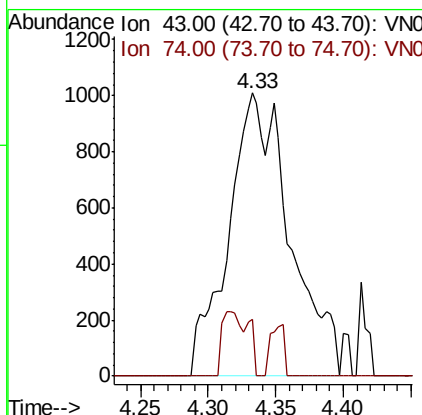
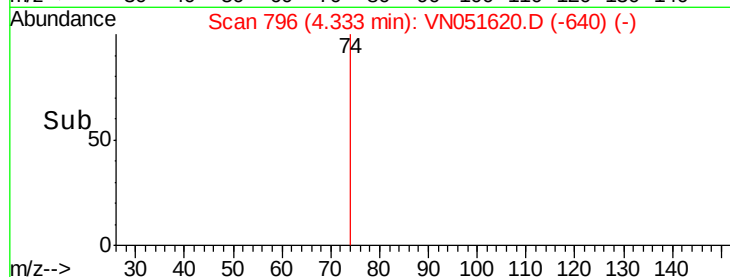
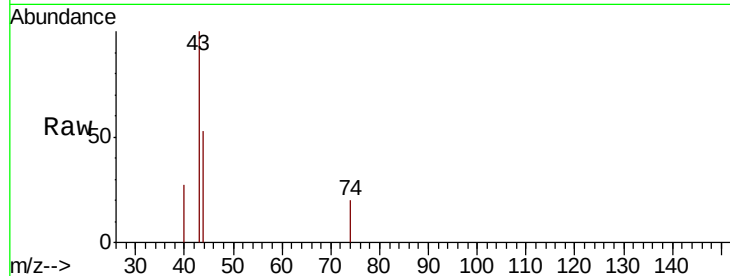
#12
Methvl Acetate
Concen: 0.792 ug/l m
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

Tot Ion: 43 Resp: 3205
Ion Ratio Lower Upper
43 100
74 20.0 17.0 25.4

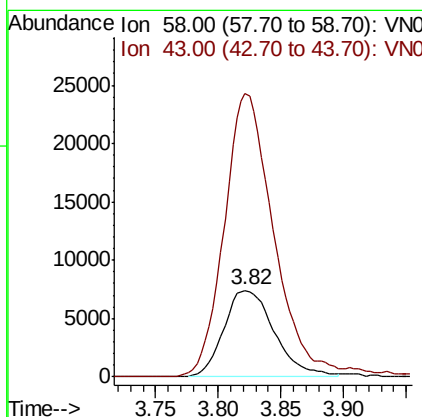
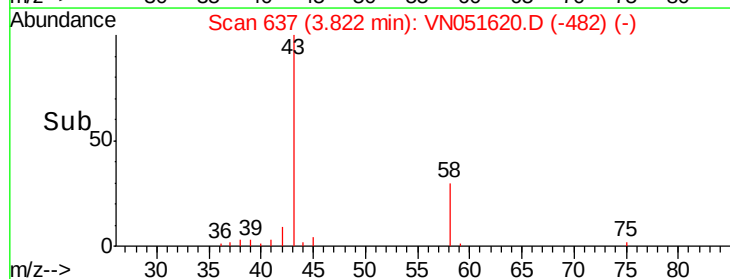
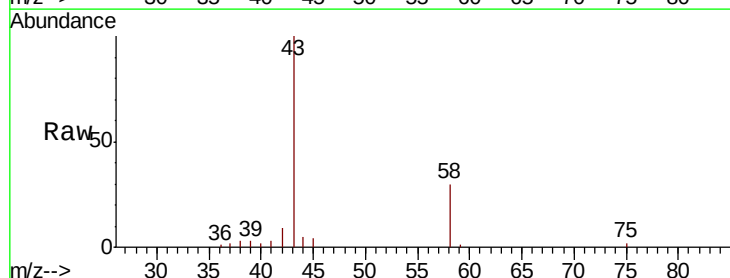
Manual Integrations
APPROVED

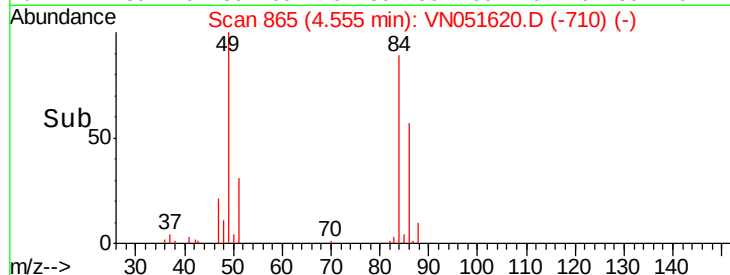
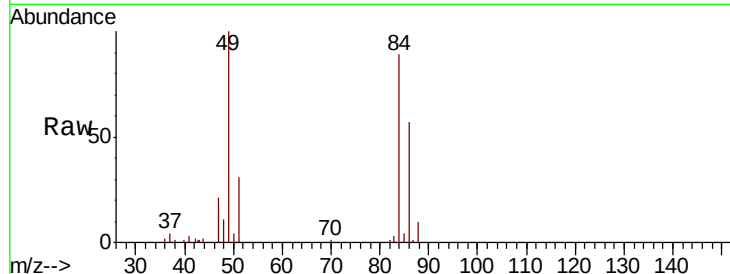
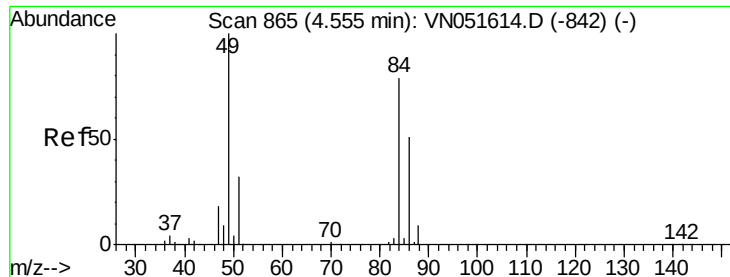
MMDadoda
10/3/2018 5:27:43 PM



#15
Acetone
Concen: 48.965 ug/l
RT: 3.82 min Scan# 637
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Tgt Ion: 58 Resp: 20819
Ion Ratio Lower Upper
58 100
43 323.7 238.0 357.0





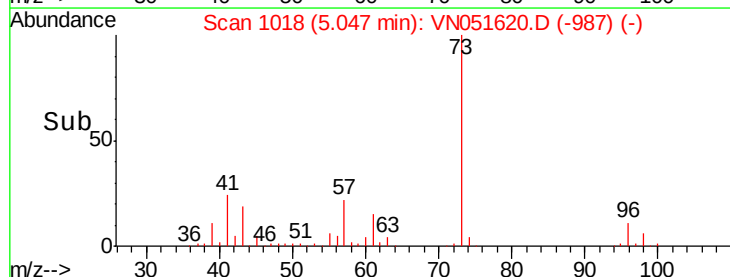
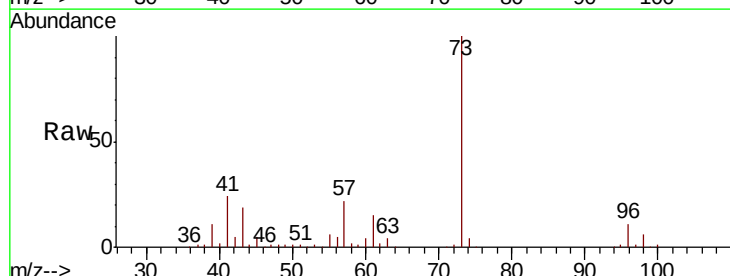
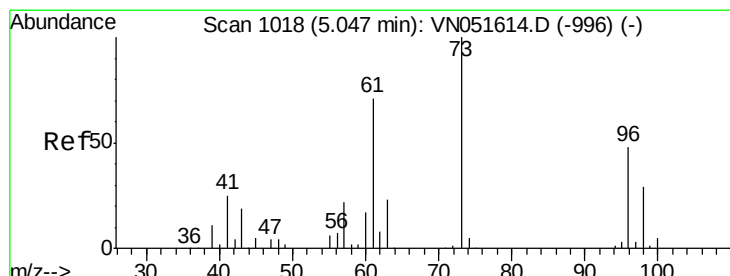
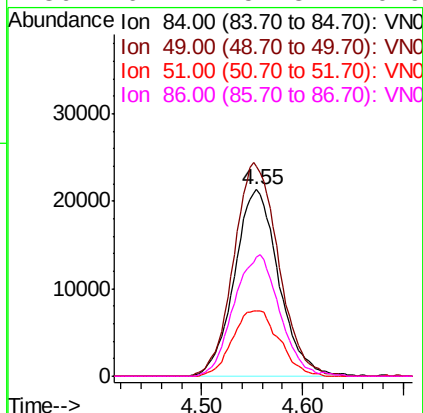
#18
Methylene Chloride
Concen: 12.338 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Tot Ion:	84	Resp:	65079
Ion	Ratio	Lower	Upper
84	100		
49	113.0	100.9	151.3
51	35.3	32.5	48.7
86	64.2	51.3	76.9

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

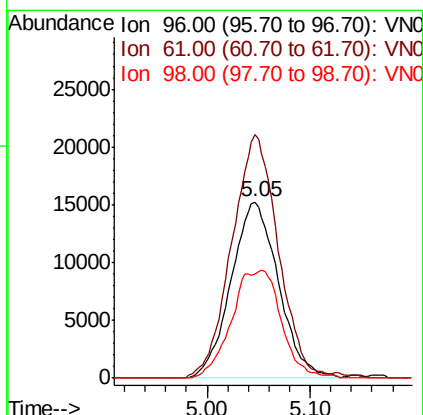
Manual Integrations
APPROVED

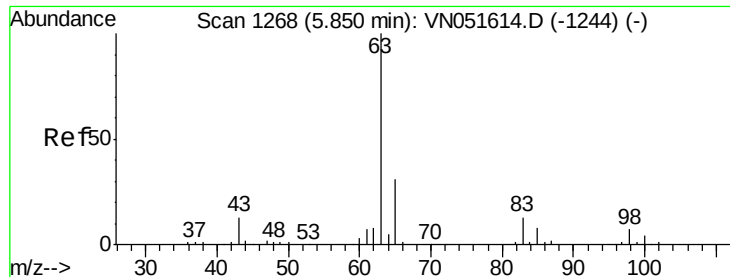
MMDadoda
10/3/2018 5:27:43 PM



#19
trans-1,2-Dichloroethene
Concen: 9.963 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Tgt Ion:	96	Resp:	48525
Ion	Ratio	Lower	Upper
96	100		
61	136.7	118.0	177.0
98	58.9	49.0	73.4





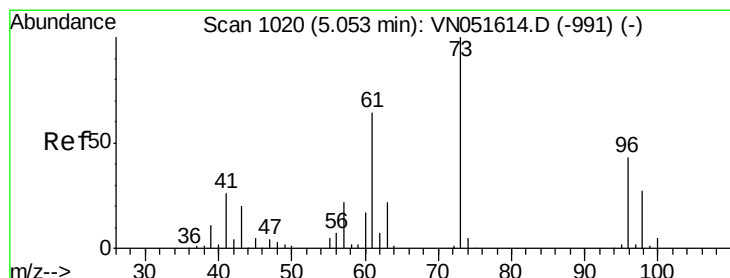
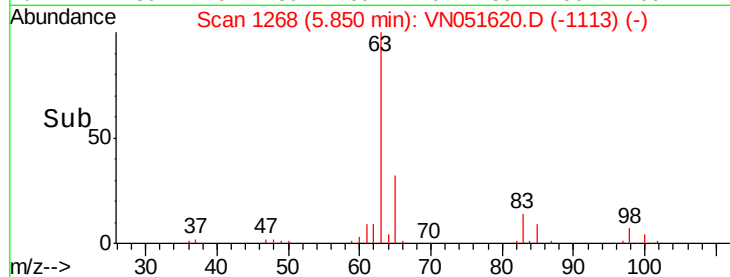
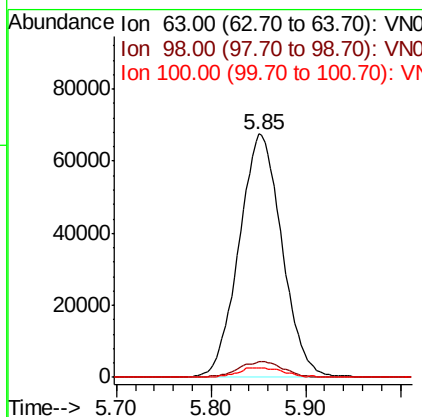
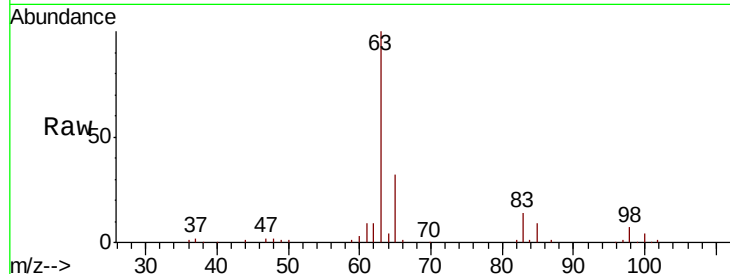
#21
1,1-Dichloroethane
Concen: 22.019 ug/l
RT: 5.85 min Scan# 1268
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

Tot Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.9
100	3.7	2.0	5.8

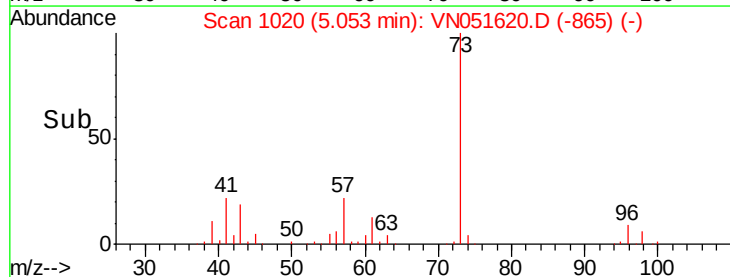
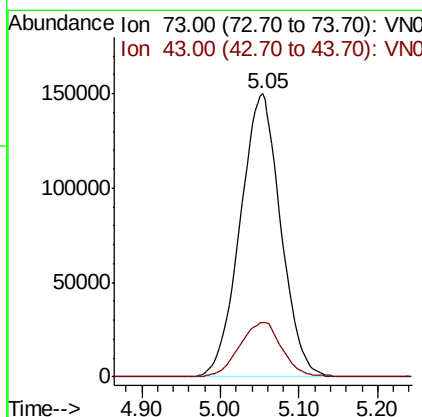
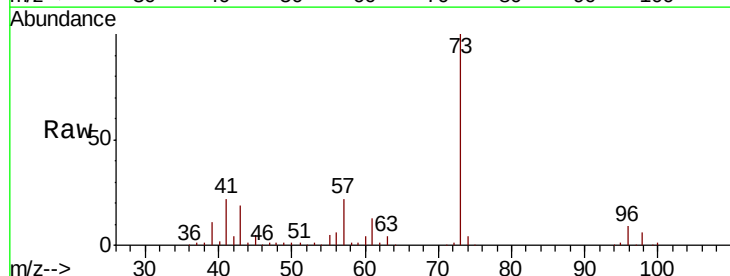
Manual Integrations
APPROVED

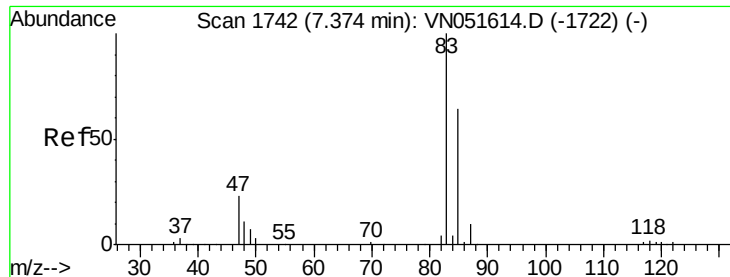
MMDadoda
10/3/2018 5:27:43 PM



#24
Methyl tert-Butyl Ether
Concen: 45.132 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Tgt Ion	Ratio	Lower	Upper
73	100		
43	20.0	16.1	24.1





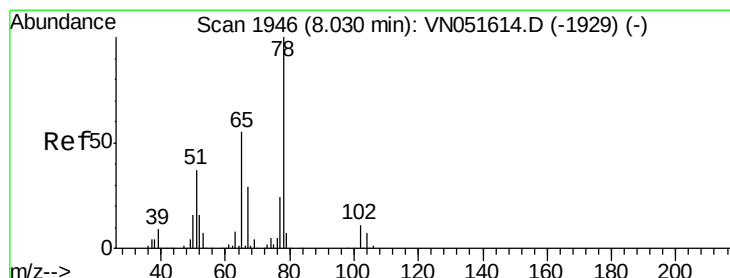
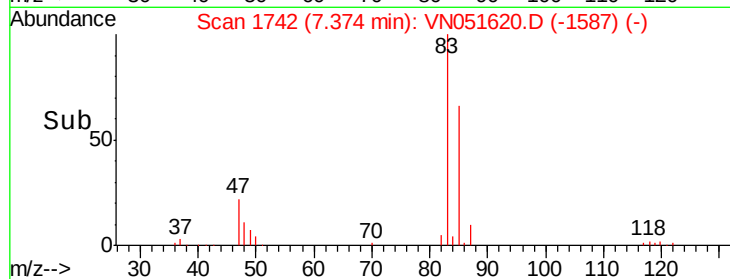
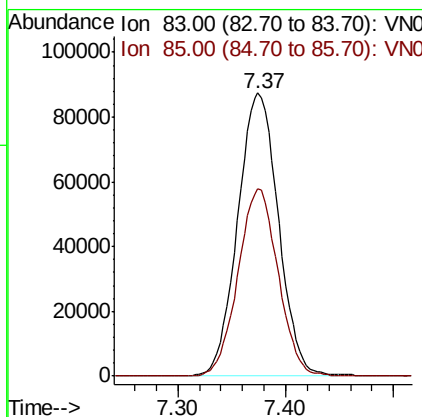
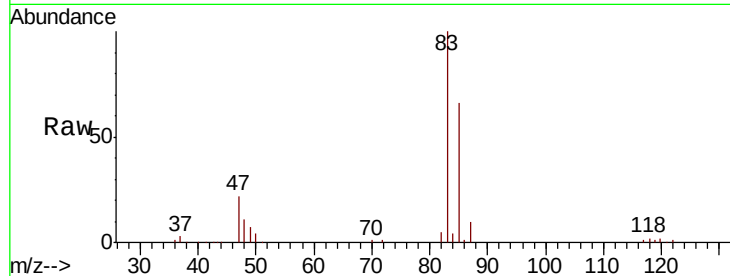
#25
Chloroform
Concen: 24.855 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

Tot Ion	83.00	Resp	229325
Ion Ratio	100	Lower	Upper
83	100		
85	66.4	51.4	77.0

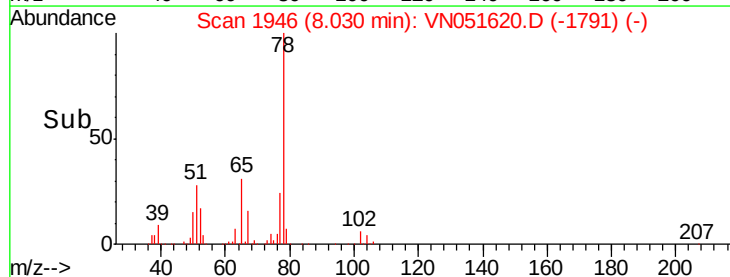
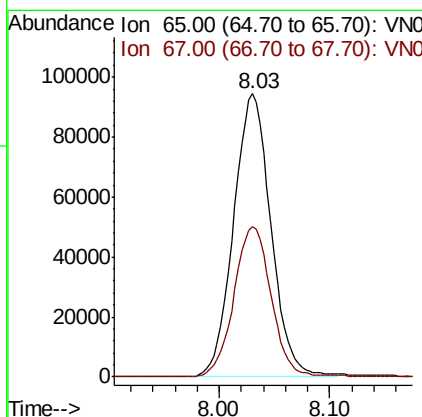
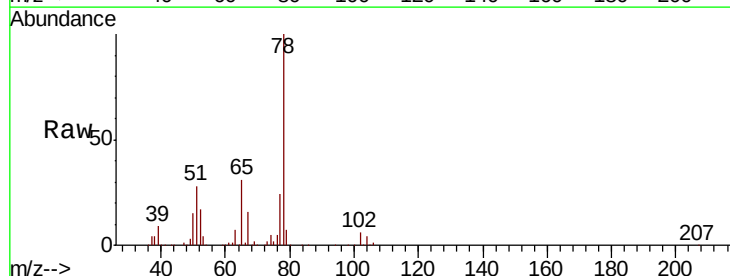
Manual Integrations
APPROVED

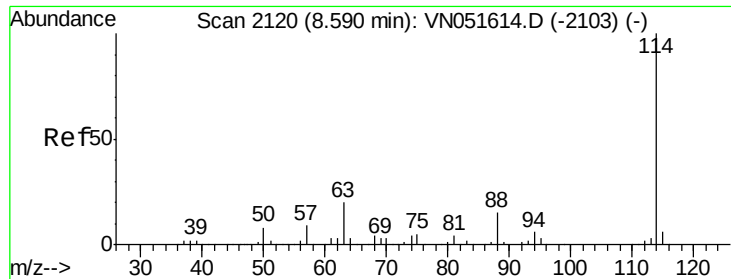
MMDadoda
10/3/2018 5:27:43 PM



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Tgt Ion	65	Resp	221802
Ion Ratio	100	Lower	Upper
65	100		
67	52.7	43.1	64.7





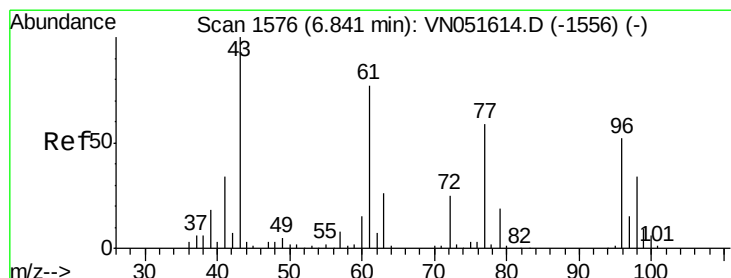
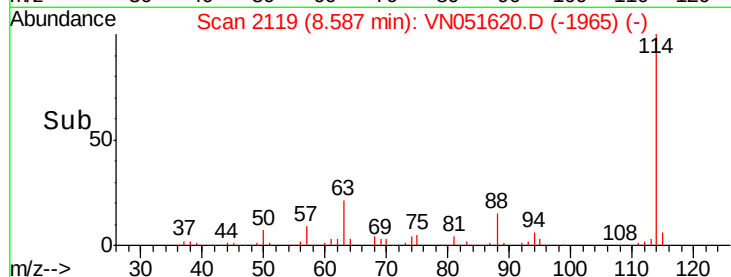
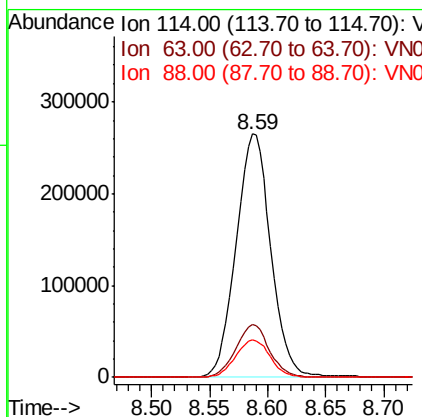
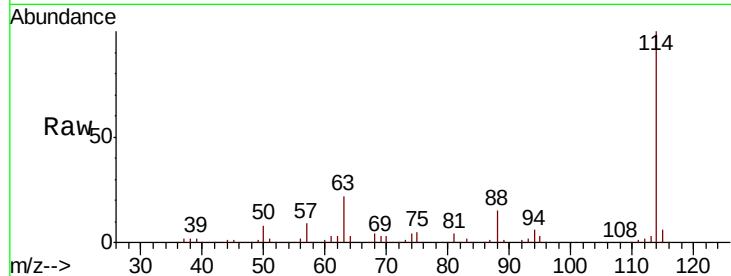
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051620.D
 Acq: 28 Sep 2018 17:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WPDL

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.0	16.4	24.6
88	15.3	12.6	18.8

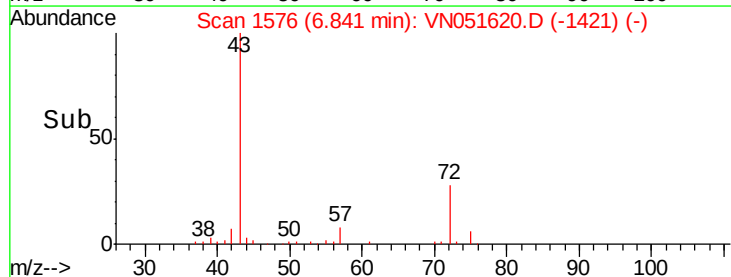
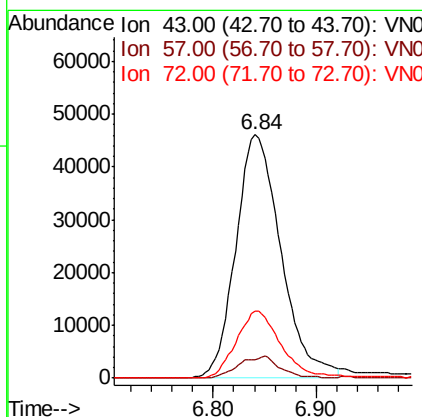
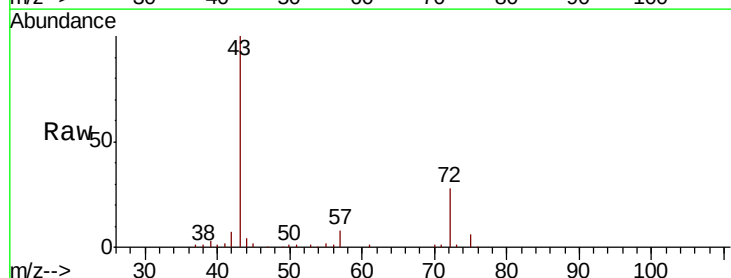
Manual Integrations
 APPROVED

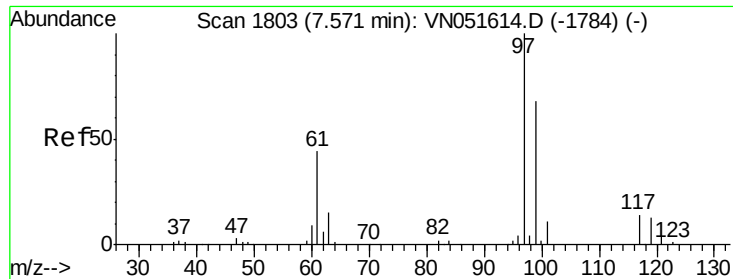
MMDadoda
 10/3/2018 5:27:43 PM



#30
 2-Butanone
 Concen: 54.990 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN051620.D
 Acq: 28 Sep 2018 17:34

Tgt Ion	Ratio	Lower	Upper
43	100		
57	3.3	6.6	10.0#
72	27.2	20.8	31.2





#32

1,1,1-Trichloroethane

Concen: 6.273 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Instrument :

MSVOA_N

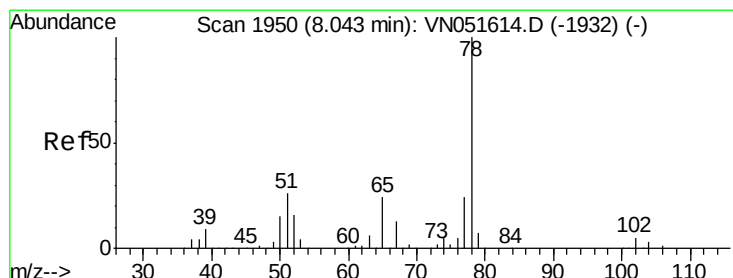
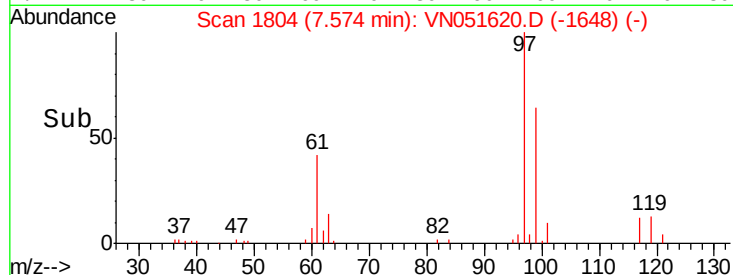
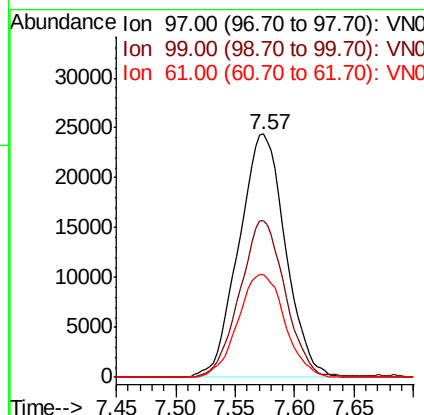
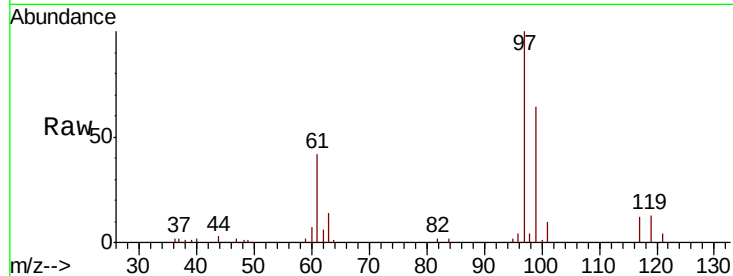
ClientSampled :

PT-VOA-WPDL

Tot Ion:	97	Resp:	66154
Ion	Ratio	Lower	Upper
97	100		
99	62.6	52.2	78.4
61	42.4	36.2	54.4

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:43 PM



#34

Benzene

Concen: 38.431 ug/l

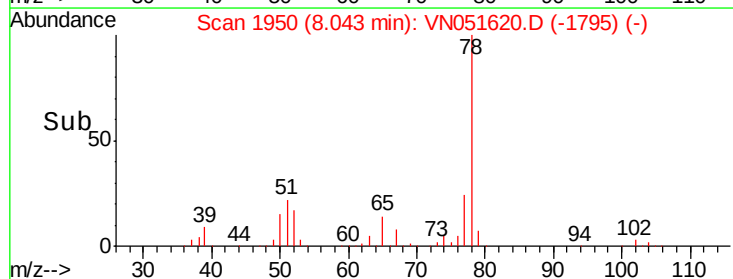
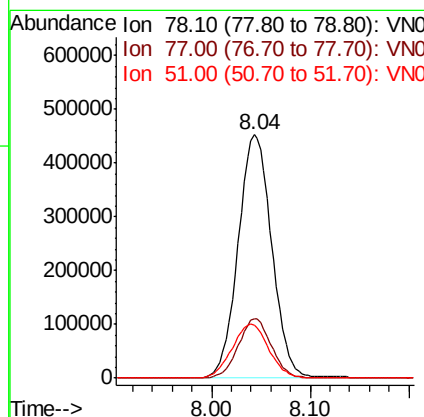
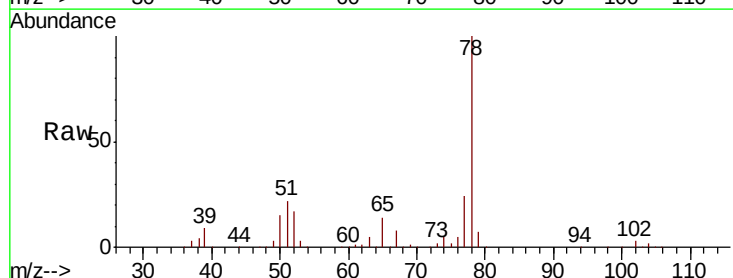
RT: 8.04 min Scan# 1950

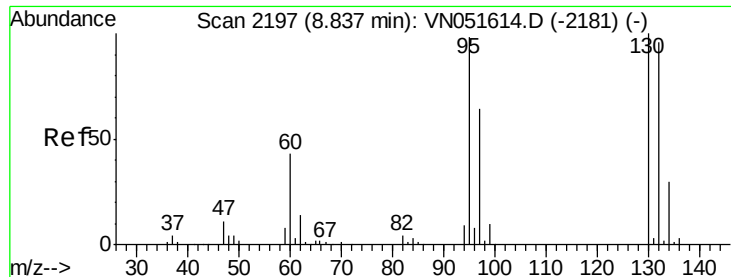
Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Tgt Ion:	78	Resp:	1070170
Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.3	28.9
51	21.8	20.8	31.2





#37

Trichloroethene

Concen: 33.520 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WPDL

Tot Ion:130 Resp: 239647

Ion Ratio Lower Upper

130 100

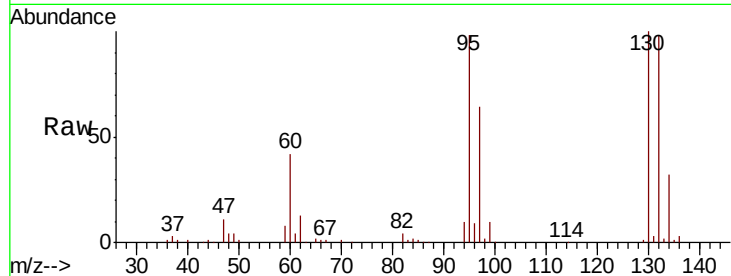
95 98.3 78.4 117.6

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:43 PM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VNO

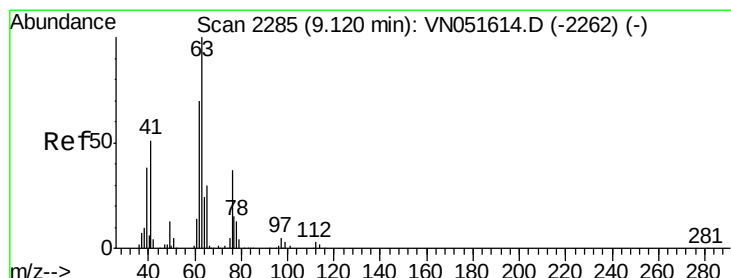
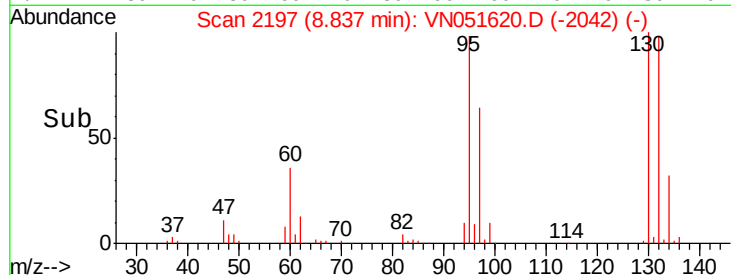
8.84

100000

50000

0

Time-->



#39

1,2-Dichloropropane

Concen: 42.888 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN051620.D

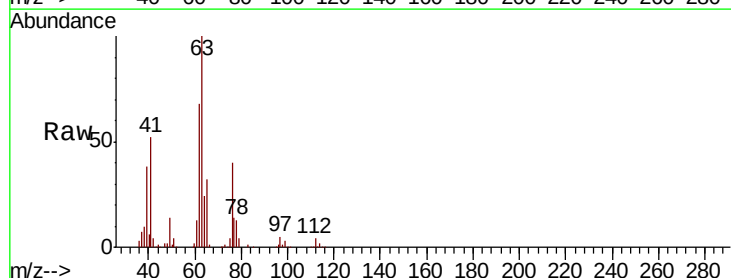
Acq: 28 Sep 2018 17:34

Tgt Ion: 63 Resp: 327242

Ion Ratio Lower Upper

63 100

65 31.7 24.4 36.6



Abundance Ion 63.00 (62.70 to 63.70): VNO

Ion 65.00 (64.70 to 65.70): VNO

9.12

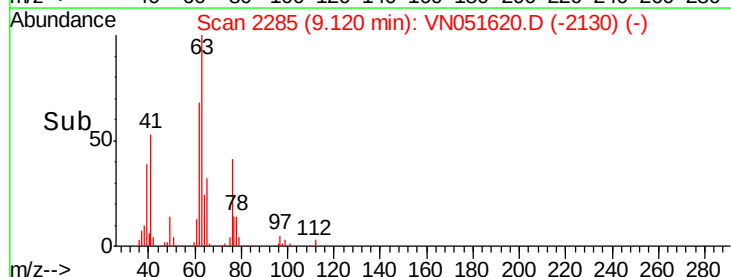
150000

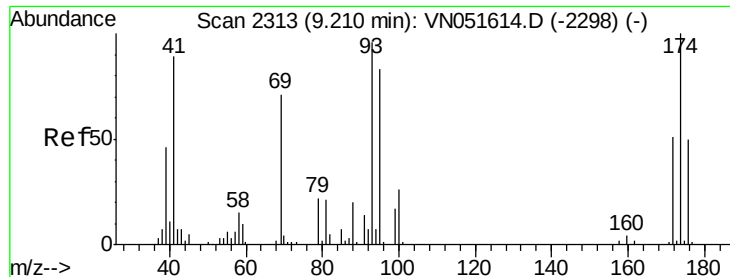
100000

50000

0

Time-->





#40

Dibromomethane

Concen: 58.662 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Instrument :

MSVOA_N

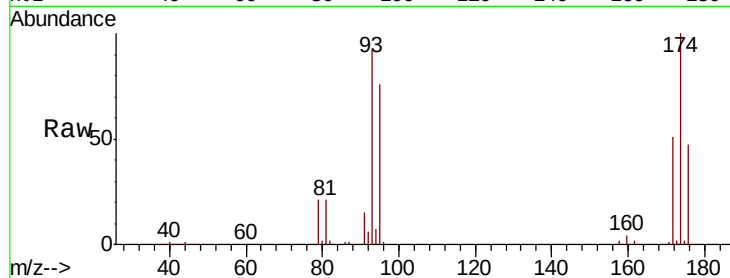
ClientSampled :

PT-VOA-WPDL

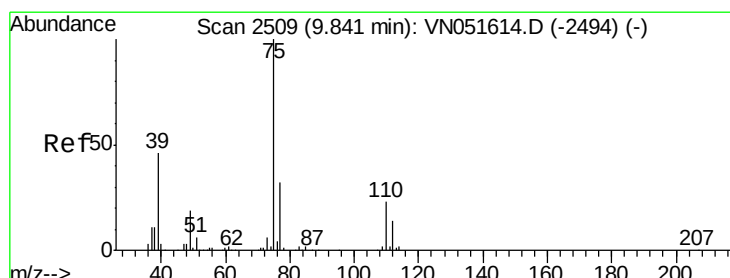
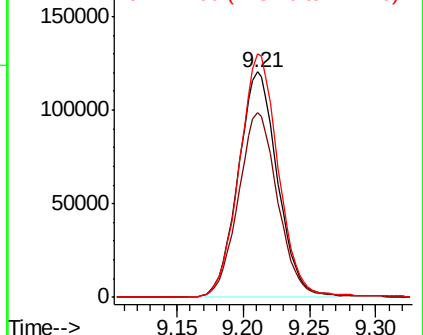
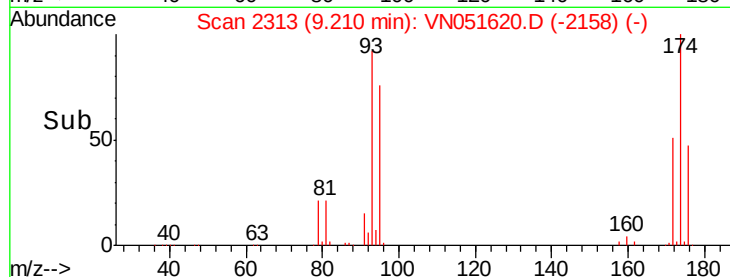
Tot Ion:	93	Resp:	248643
Ion Ratio	Lower	Upper	
93	100		
95	82.1	0.0	171.0
174	107.1	0.0	212.0

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:43 PM



Abundance Ion 93.00 (92.70 to 93.70): VN051620.D (-2158) (-)



#49

cis-1,3-Dichloropropene

Concen: 48.434 ug/l

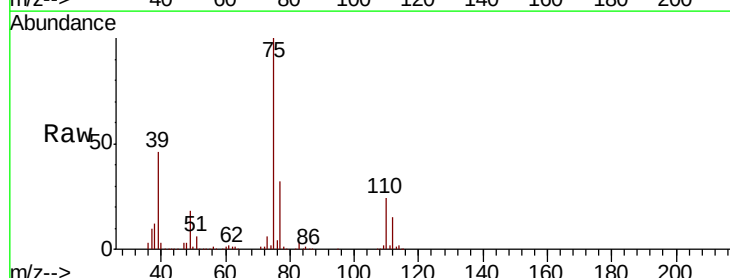
RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

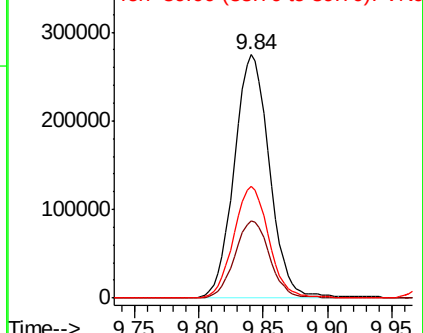
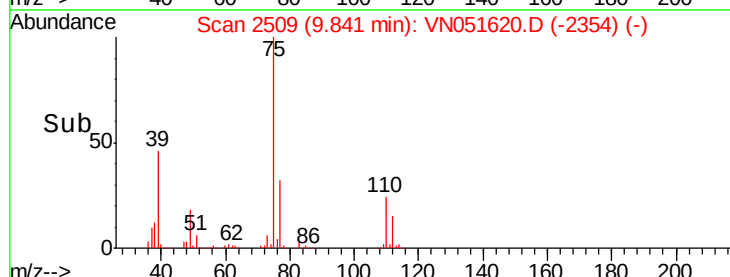
Lab File: VN051620.D

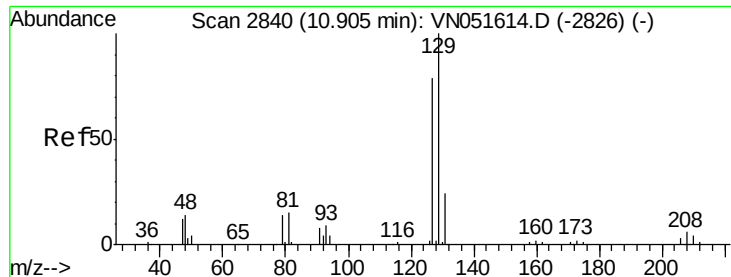
Acq: 28 Sep 2018 17:34

Tgt Ion:	75	Resp:	522905
Ion Ratio	Lower	Upper	
75	100		
77	31.7	25.4	38.0
39	46.0	36.6	55.0



Abundance Ion 75.00 (74.70 to 75.70): VN051620.D (-2354) (-)





#53

Dibromochloromethane

Concen: 31.738 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WPDL

Tot Ion:129 Resp: 216522

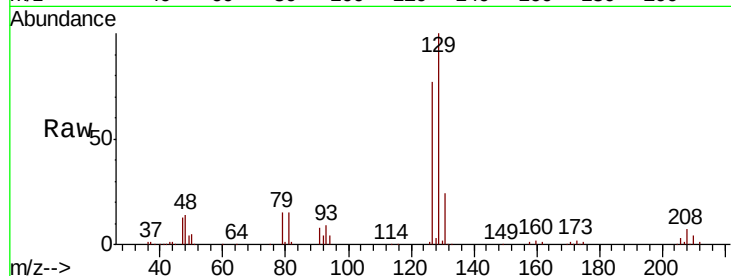
Ion Ratio Lower Upper

129 100

127 77.6 38.9 116.7

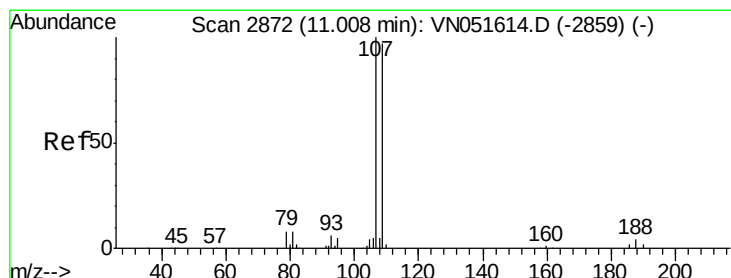
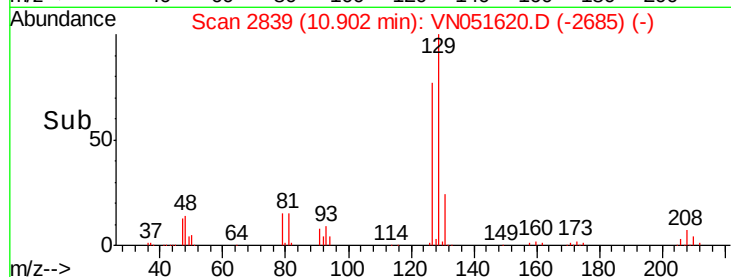
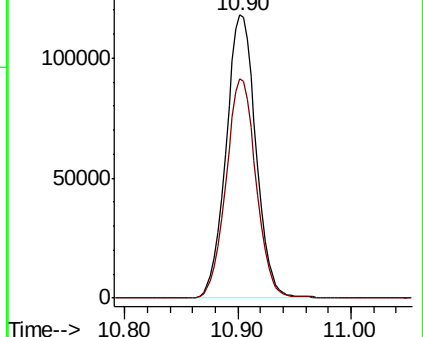
Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:43 PM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 45.518 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN051620.D

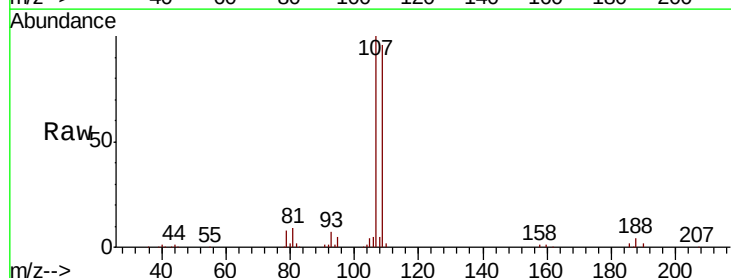
Acq: 28 Sep 2018 17:34

Tgt Ion:107 Resp: 261622

Ion Ratio Lower Upper

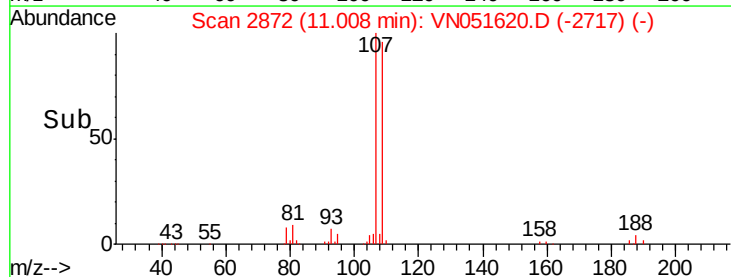
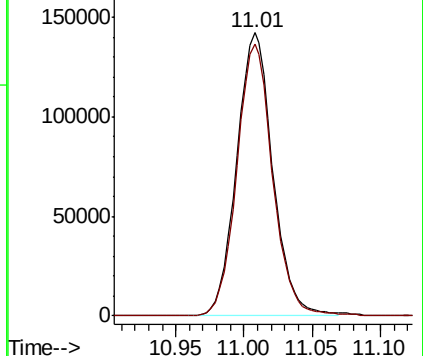
107 100

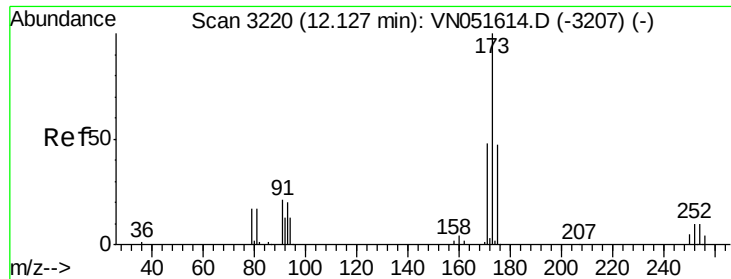
109 95.2 76.5 114.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





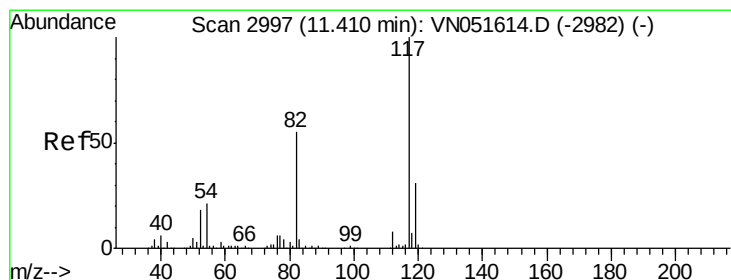
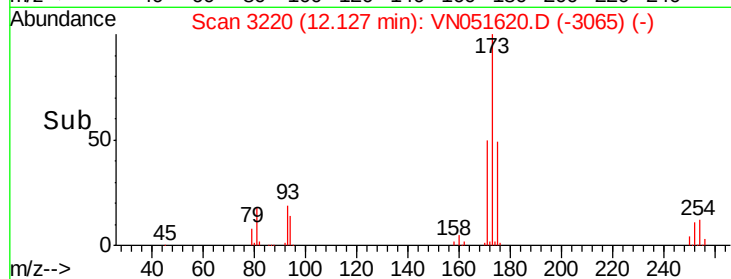
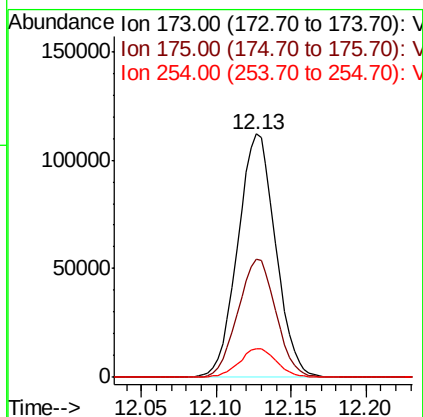
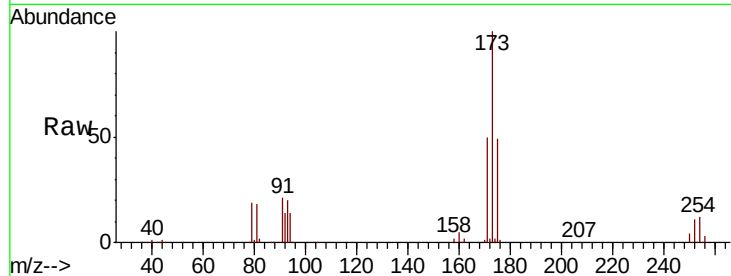
#56
Bromoform
Concen: 43.583 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WPDL

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.8	39.0	58.4
254	11.6	8.7	13.1

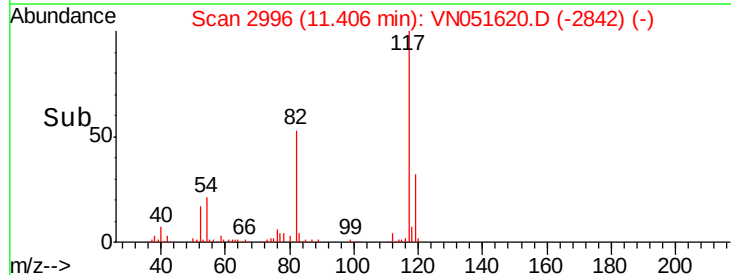
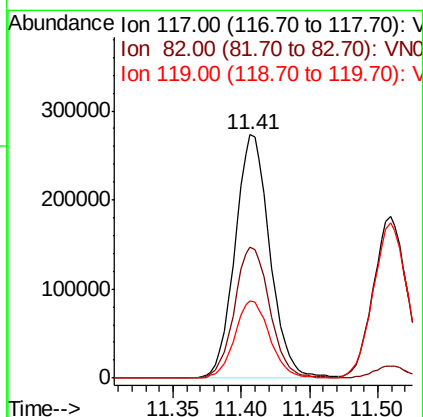
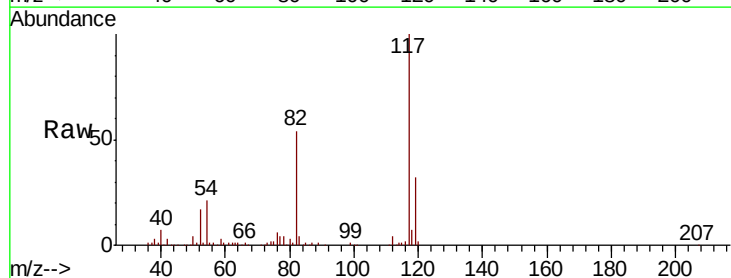
Manual Integrations
APPROVED

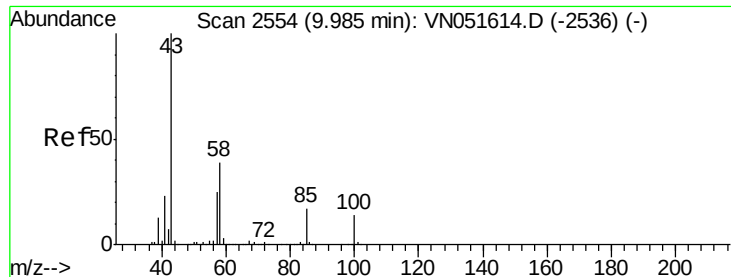
MMDadoda
10/3/2018 5:27:43 PM



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.8	44.2	66.2
119	32.0	25.2	37.8





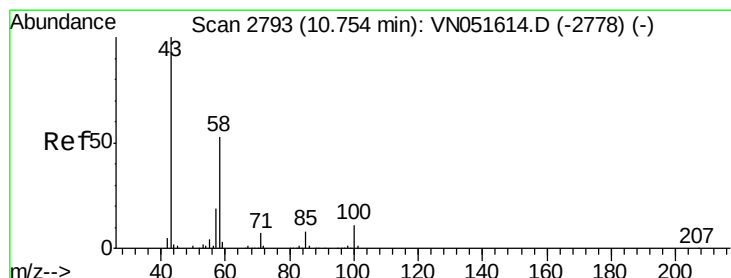
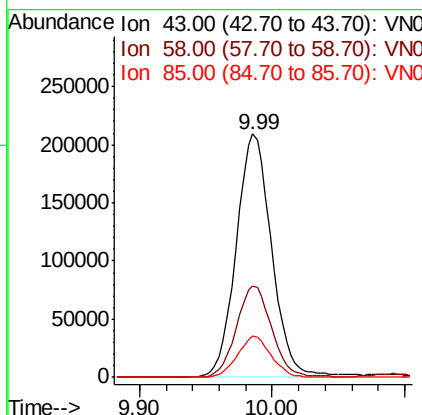
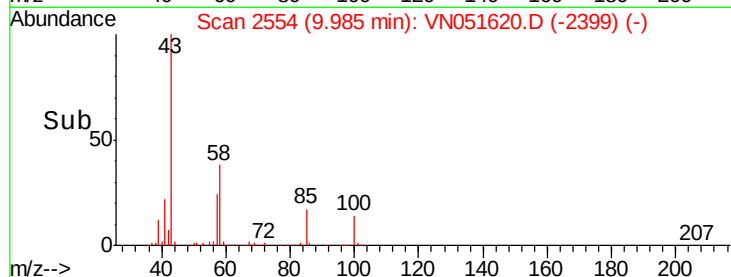
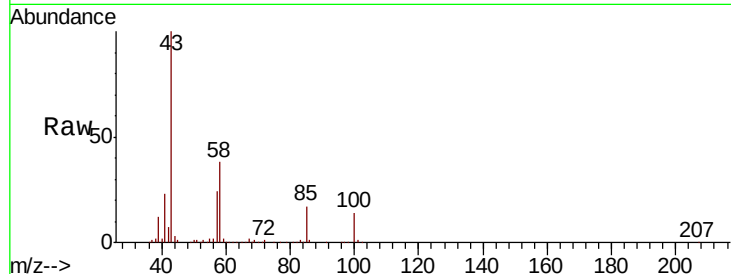
#58
4-Methyl-2-Pentanone
Concen: 70.048 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

Tot Ion	Ratio	Lower	Upper
43	100		
58	37.7	31.0	46.4
85	16.2	13.4	20.2

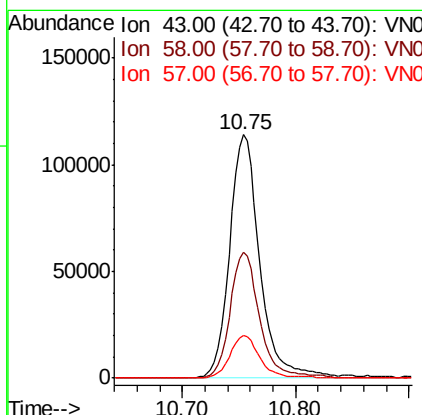
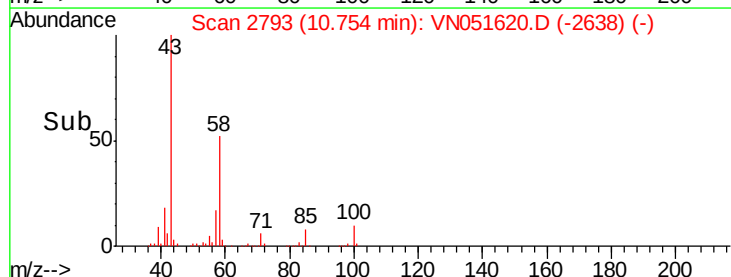
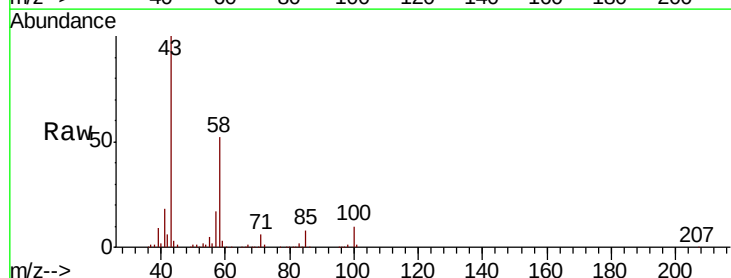
Manual Integrations
APPROVED

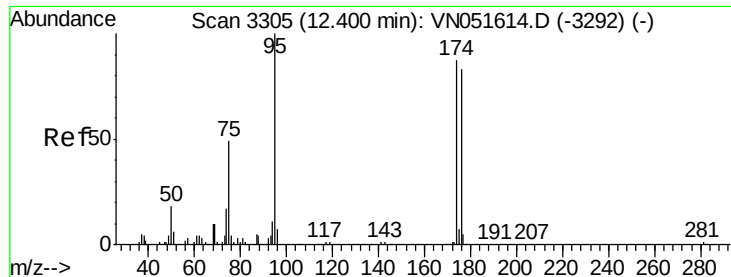
MMDadoda
10/3/2018 5:27:43 PM



#59
2-Hexanone
Concen: 57.973 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Tgt Ion	Ratio	Lower	Upper
43	100		
58	50.8	41.5	62.3
57	17.2	14.2	21.4





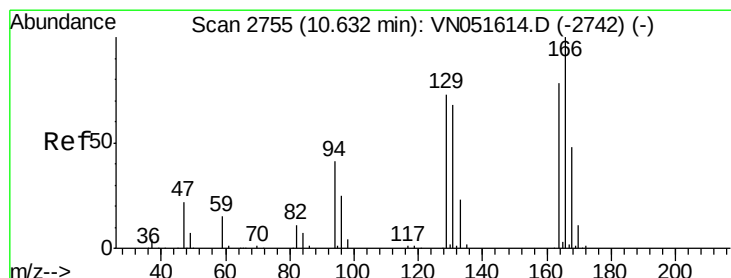
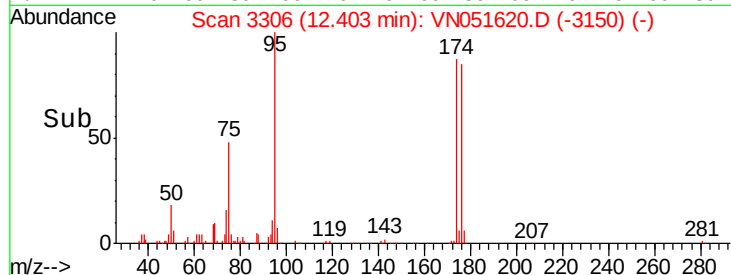
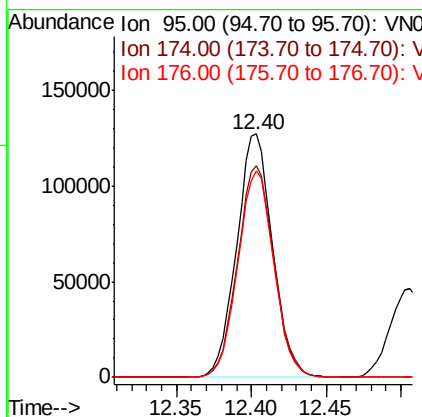
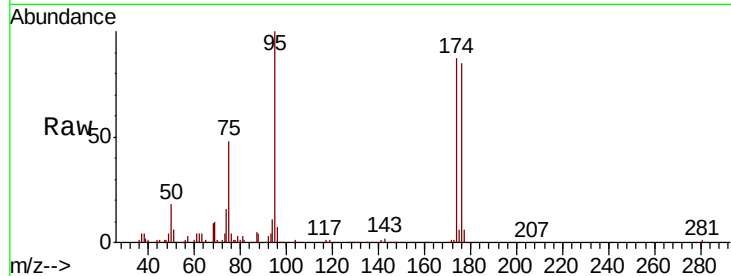
#60
4-Bromofluorobenzene
Concen: 57.973 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

Tot Ion	Ratio	Lower	Upper
95	100		
174	88.7	71.2	106.8
176	85.2	67.8	101.8

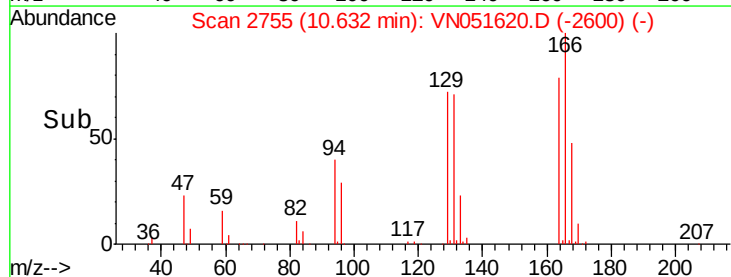
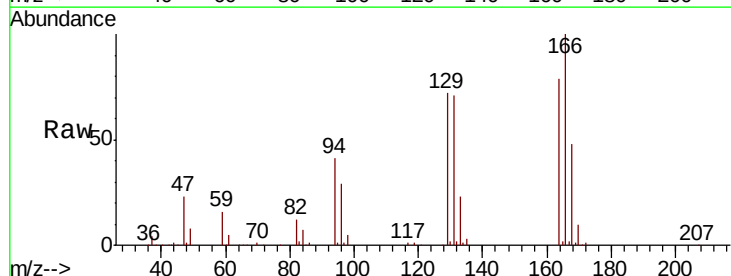
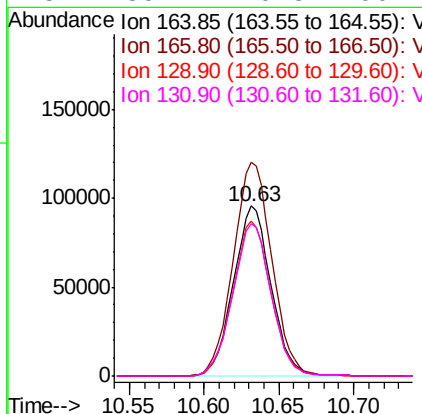
Manual Integrations
APPROVED

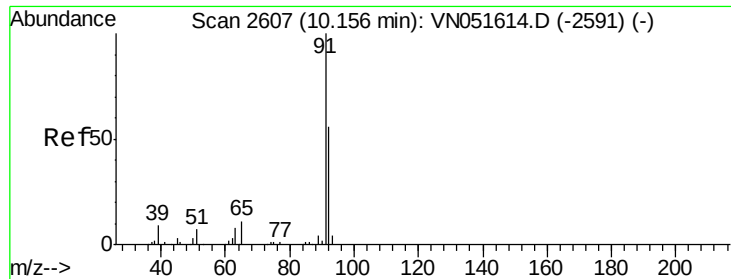
MMDadoda
10/3/2018 5:27:43 PM



#61
Tetrachloroethene
Concen: 24.357 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.9	103.1	154.7
129	91.3	75.3	112.9
131	89.7	70.8	106.2





#62

Toluene

Concen: 24.127 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WPDL

Tot Ion: 91 Resp: 716901

Ion Ratio Lower Upper

91 100

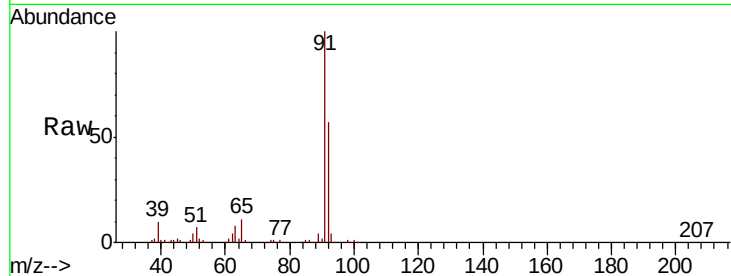
92 57.5 45.3 67.9

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:43 PM



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

10.16

400000

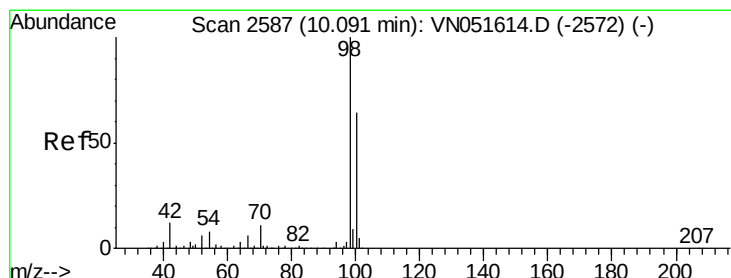
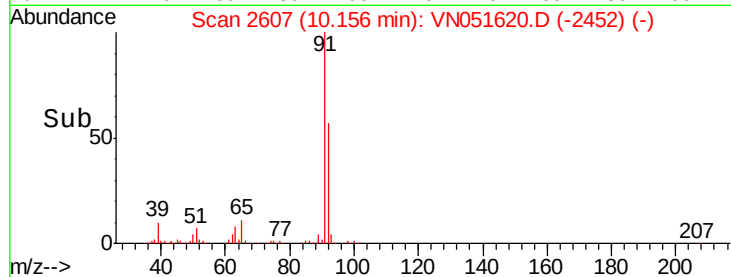
300000

200000

100000

0

Time-->



#63

Toluene-d8

Concen: 24.127 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051620.D

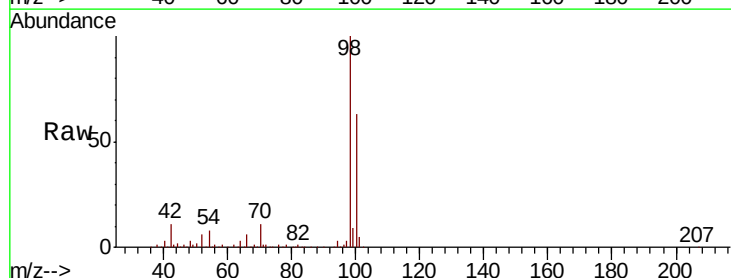
Acq: 28 Sep 2018 17:34

Tgt Ion: 98 Resp: 694604

Ion Ratio Lower Upper

98 100

100 63.0 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

10.09

400000

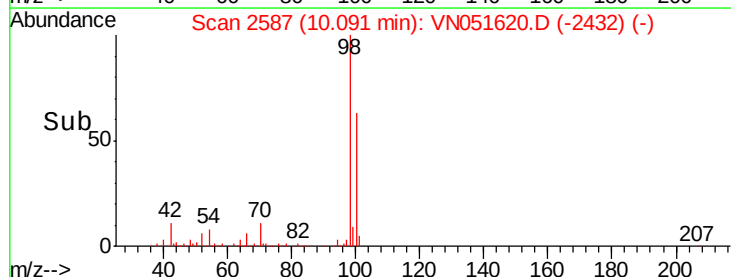
300000

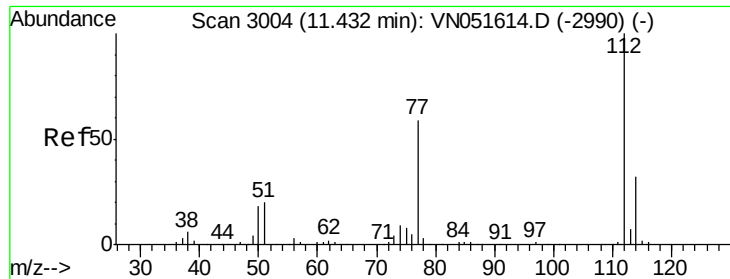
200000

100000

0

Time-->





#64

Chlorobenzene

Concen: 19.972 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WPDL

Tot Ion:112 Resp: 358807

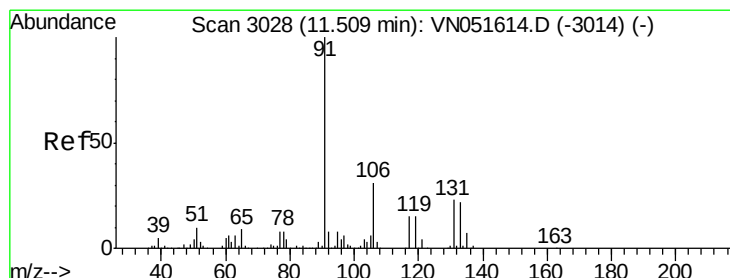
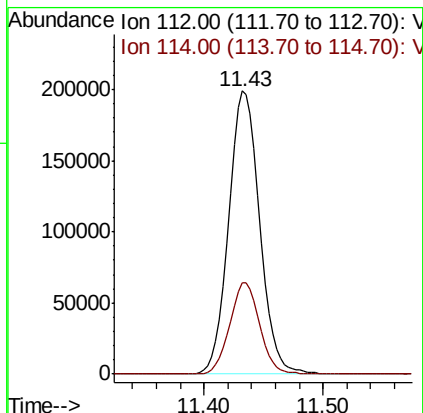
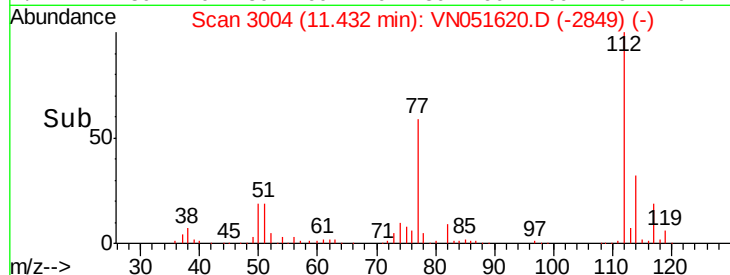
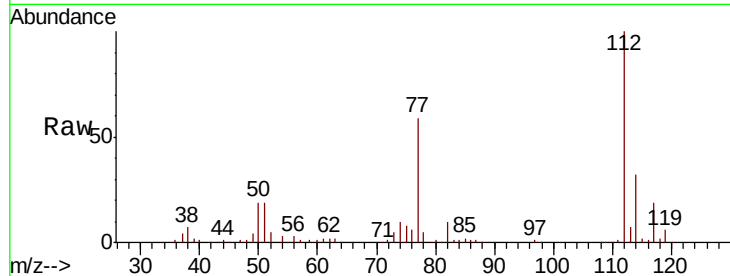
Ion Ratio Lower Upper

112 100

114 32.2 25.9 38.9

Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:43 PM



#65

1,1,1,2-Tetrachloroethane

Concen: 65.566 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

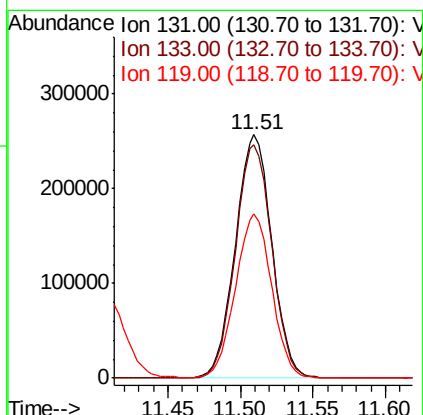
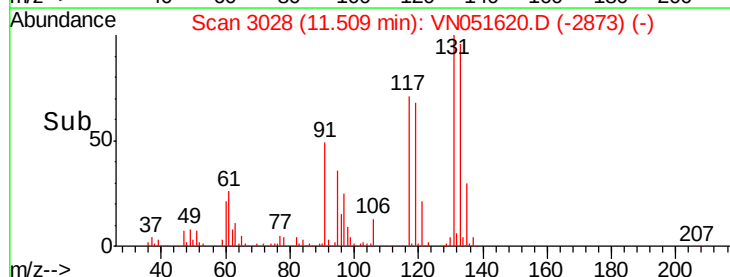
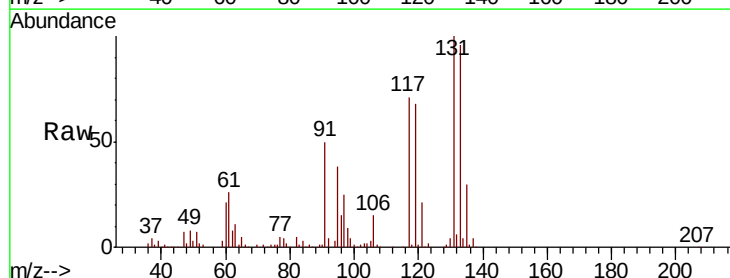
Tgt Ion:131 Resp: 449796

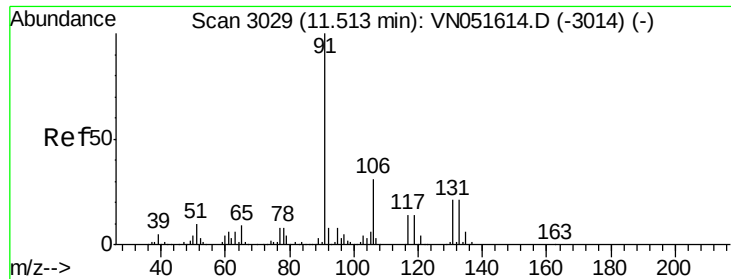
Ion Ratio Lower Upper

131 100

133 96.0 0.0 193.0

119 67.2 0.0 135.0





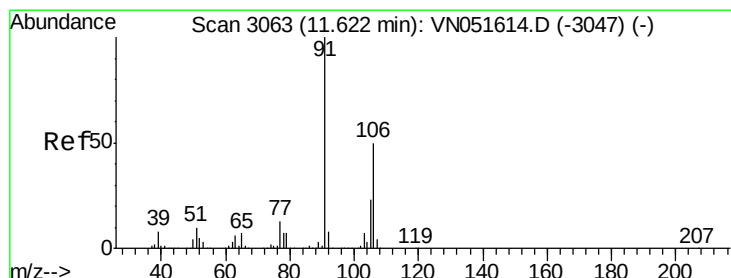
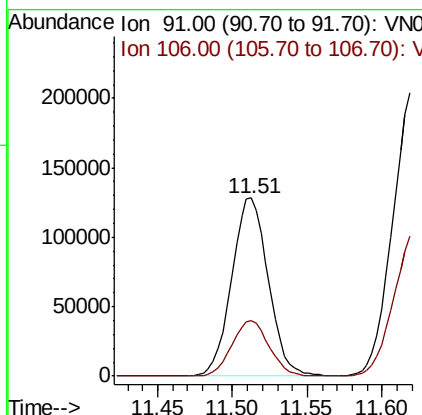
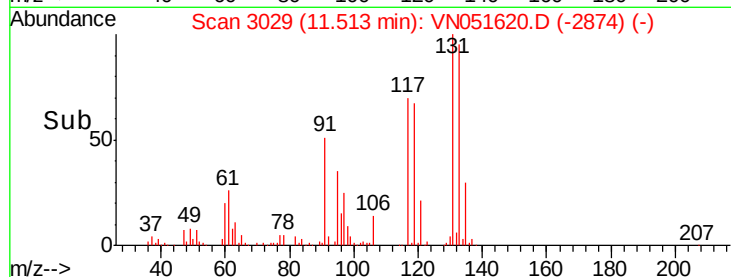
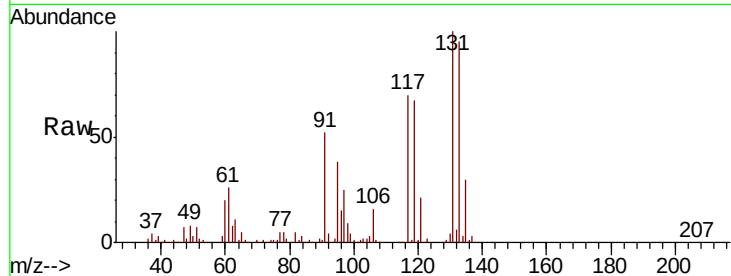
#66
Ethyl Benzene
Concen: 7.169 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WPDL

Tot Ion: 91 Resp: 218022
Ion Ratio Lower Upper
91 100
106 31.3 25.0 37.4

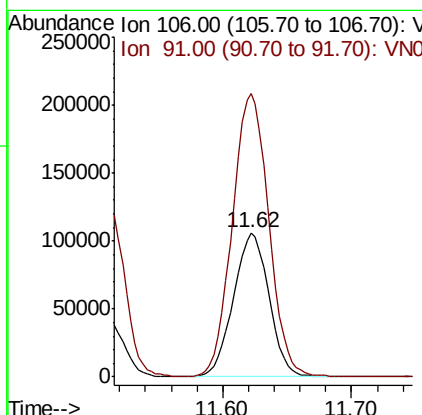
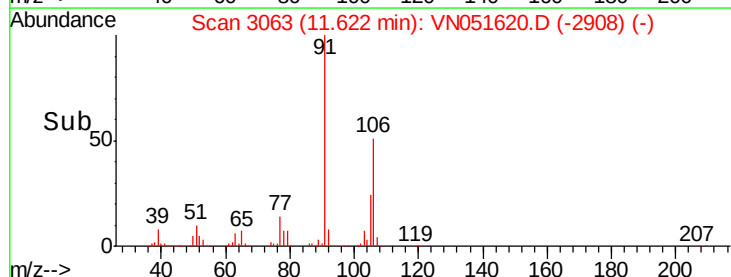
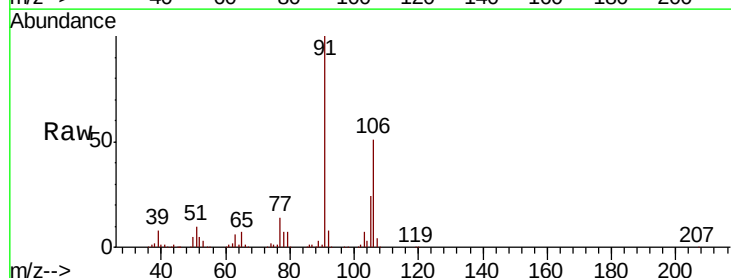
Manual Integrations
APPROVED

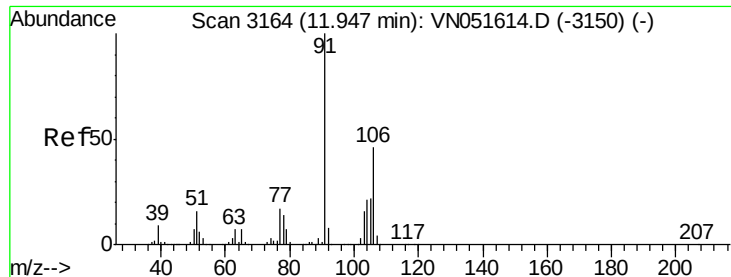
MMDadoda
10/3/2018 5:27:43 PM



#67
m/p-Xylenes
Concen: 17.345 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Tgt Ion: 106 Resp: 203287
Ion Ratio Lower Upper
106 100
91 200.4 161.5 242.3





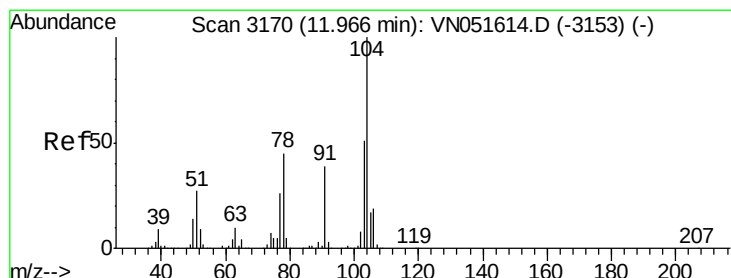
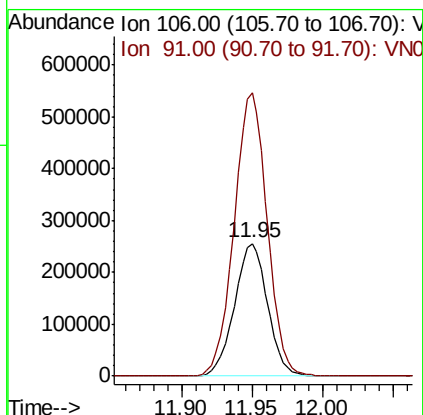
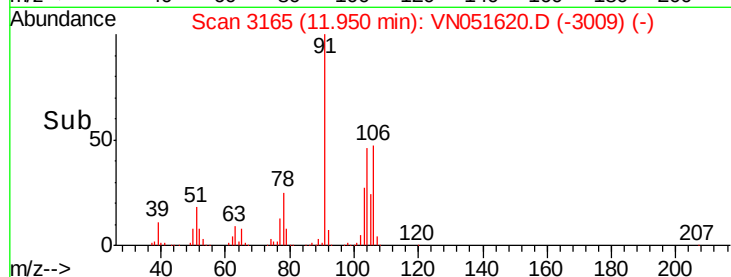
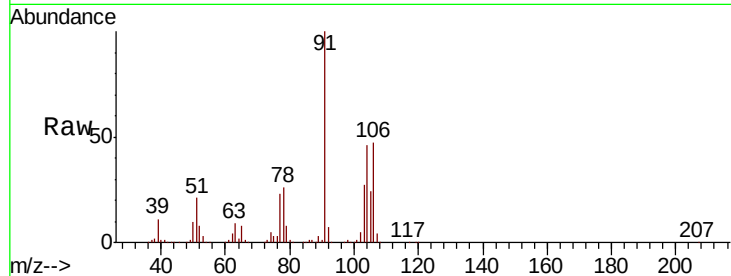
#68
o-Xylene
Concen: 37.447 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WPDL

Tot Ion:106 Resp: 418973
Ion Ratio Lower Upper
106 100
91 213.9 109.7 329.1

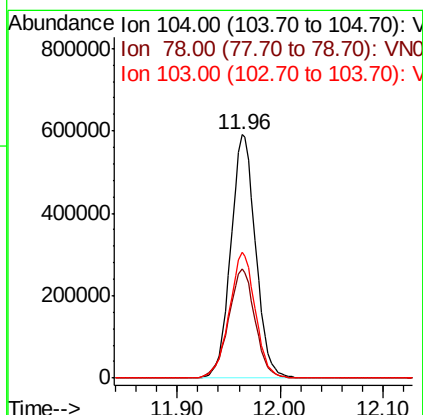
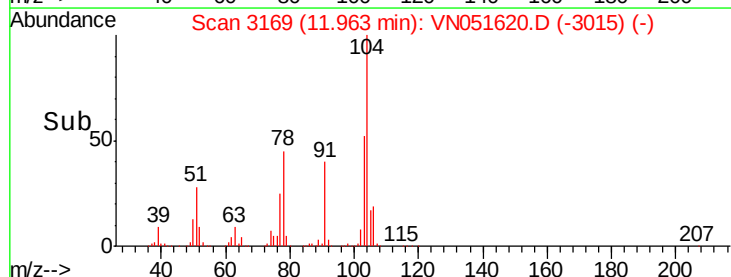
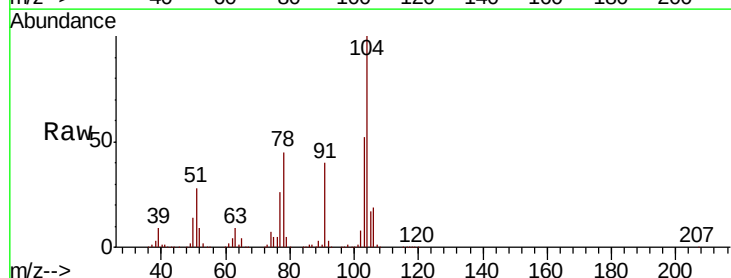
Manual Integrations
APPROVED

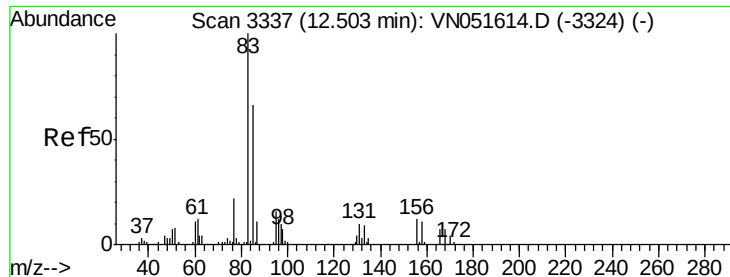
MMDadoda
10/3/2018 5:27:43 PM



#69
Styrene
Concen: 56.474 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Tgt Ion:104 Resp: 991750
Ion Ratio Lower Upper
104 100
78 47.9 40.3 60.5
103 53.9 45.7 68.5





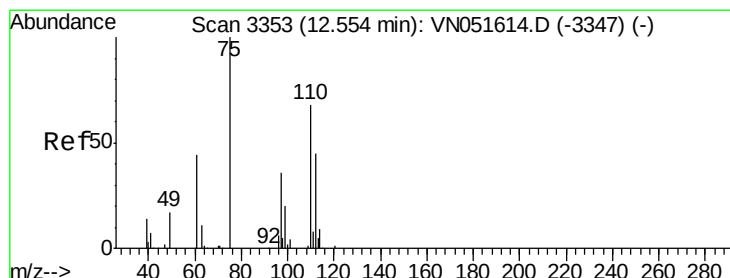
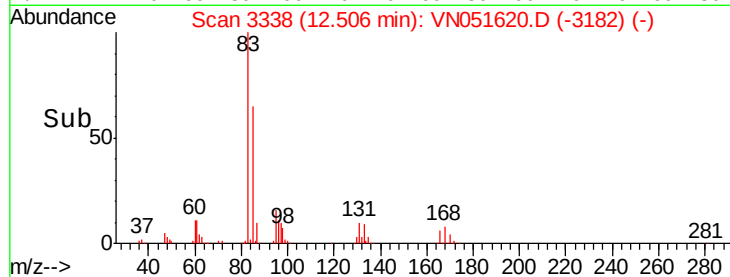
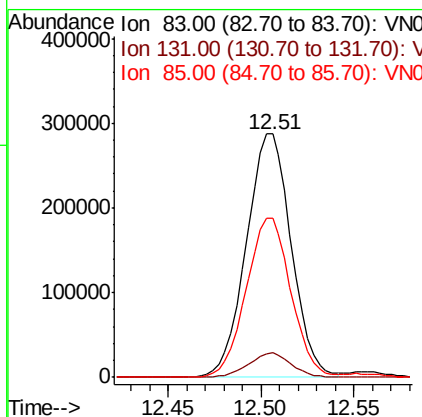
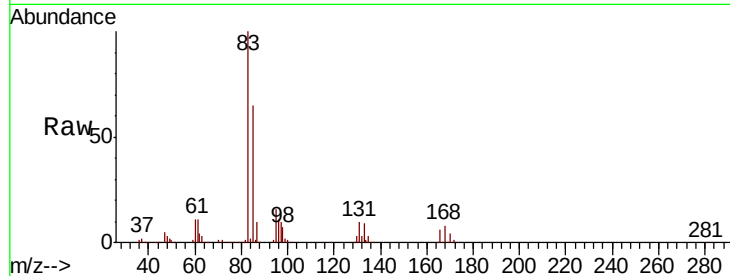
#71
 1,1,2,2-Tetrachloroethane
 Concen: 67.105 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN051620.D
 Acq: 28 Sep 2018 17:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WPDL

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.2	15.6
85	65.2	32.0	96.2

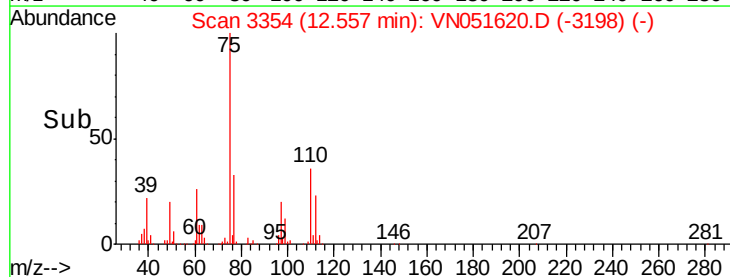
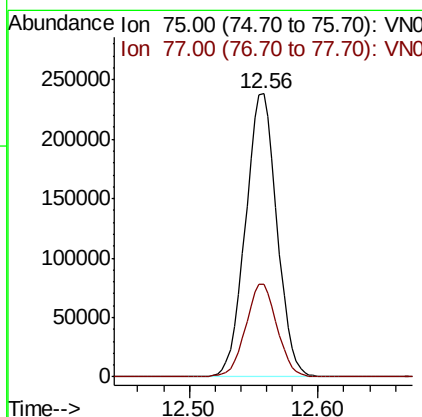
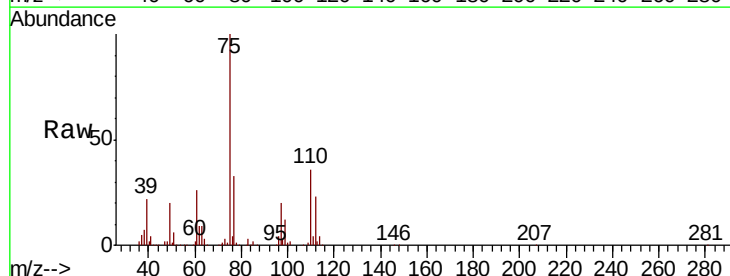
Manual Integrations
 APPROVED

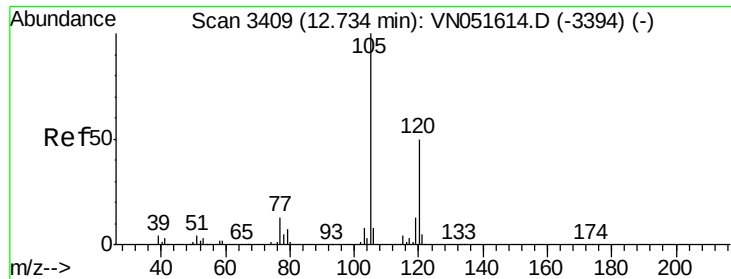
MMDadoda
 10/3/2018 5:27:43 PM



#72
 1,2,3-Trichloropropane
 Concen: 65.408 ug/l
 RT: 12.56 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VN051620.D
 Acq: 28 Sep 2018 17:34

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.7	0.0	492.2





#76

1,3,5-Trimethylbenzene

Concen: 22.941 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WPDL

Tot Ion:105 Resp: 572106

Ion Ratio Lower Upper

105 100

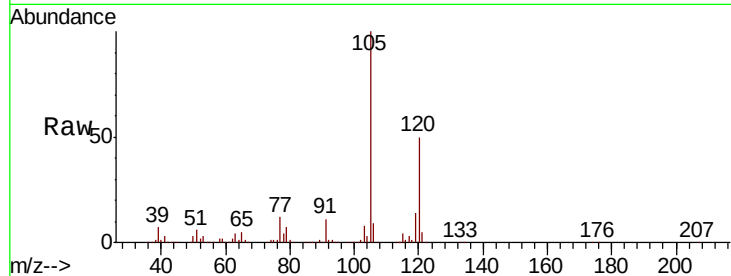
120 49.7 0.0 99.8

Manual Integrations

APPROVED

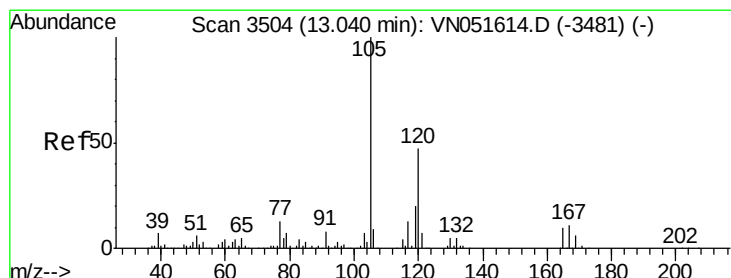
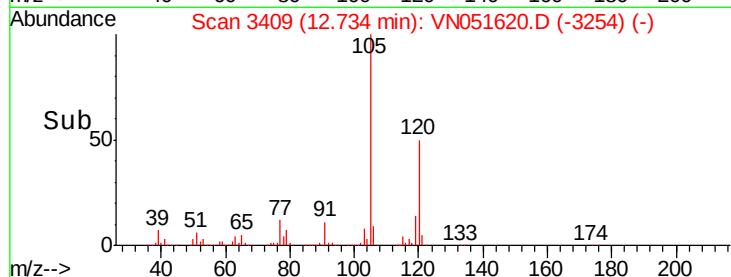
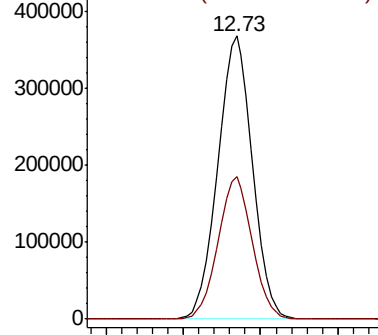
MMDadoda

10/3/2018 5:27:43 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,2,4-Trimethylbenzene

Concen: 38.492 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN051620.D

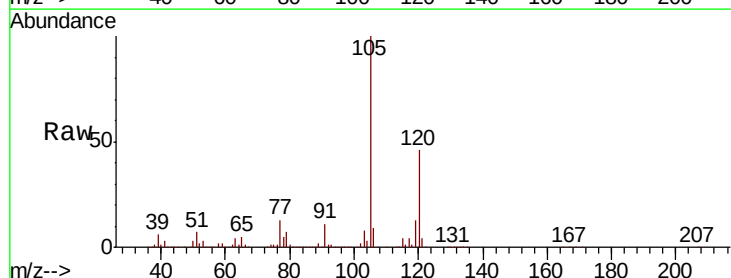
Acq: 28 Sep 2018 17:34

Tgt Ion:105 Resp: 958779

Ion Ratio Lower Upper

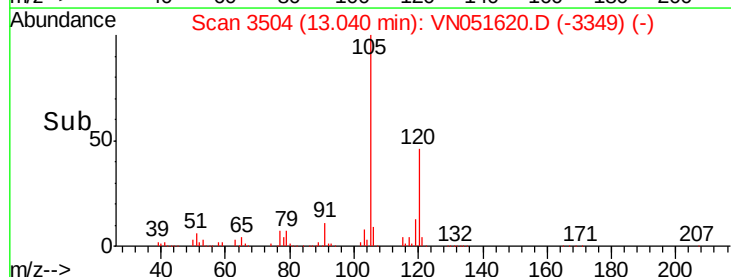
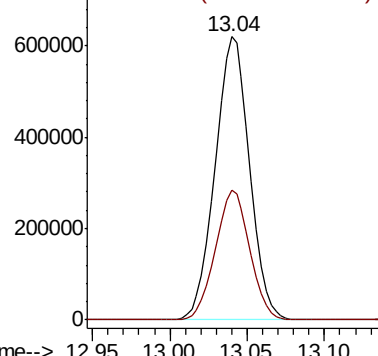
105 100

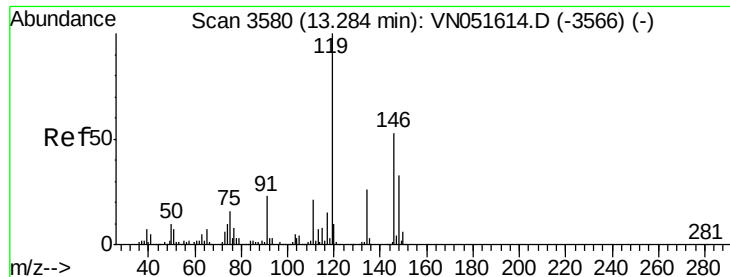
120 45.8 0.0 91.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





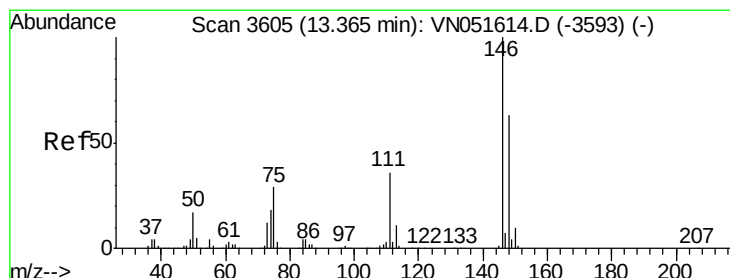
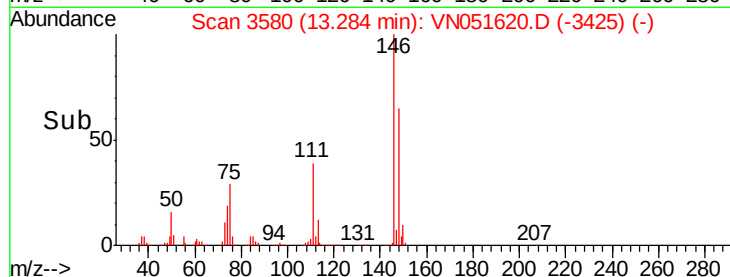
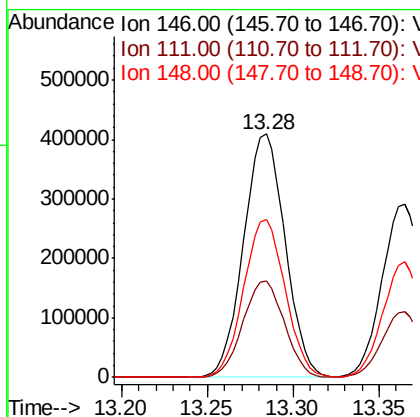
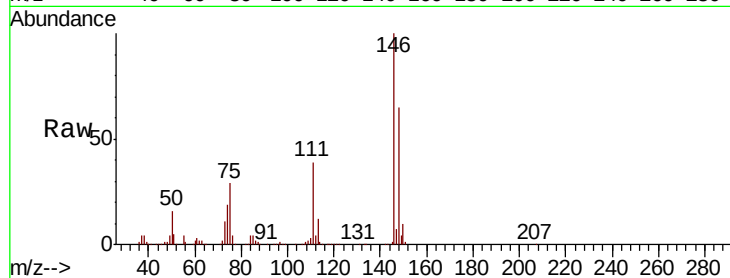
#83
 1,3-Dichlorobenzene
 Concen: 53.139 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN051620.D
 Acq: 28 Sep 2018 17:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WPDL

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.9	59.6
148	64.6	32.4	97.2

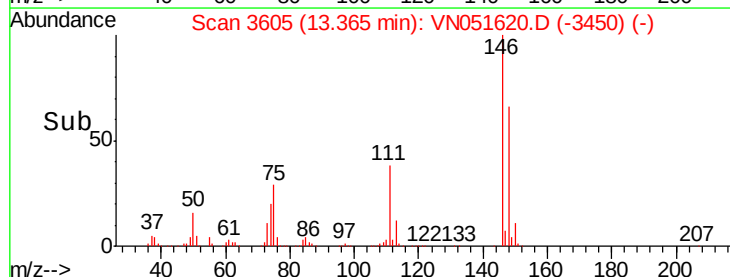
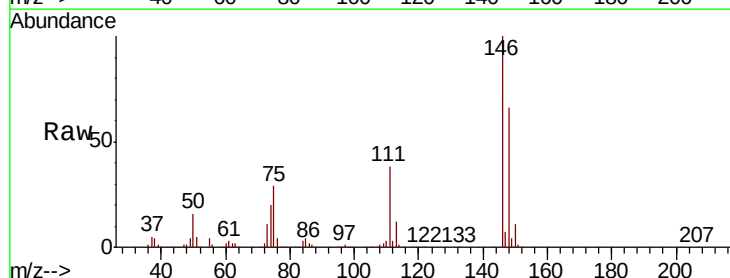
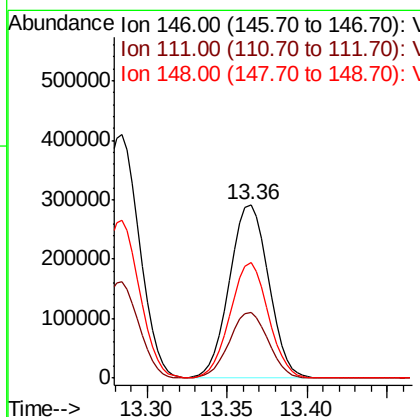
Manual Integrations
 APPROVED

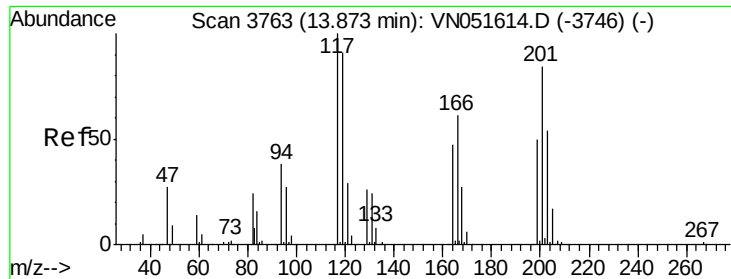
MMDadoda
 10/3/2018 5:27:43 PM



#84
 1,4-Dichlorobenzene
 Concen: 39.981 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN051620.D
 Acq: 28 Sep 2018 17:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.6	55.8
148	64.9	32.1	96.5





#86

Hexachloroethane

Concen: 0.739 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WPDL

Tot Ion:117 Resp: 3768

Ion Ratio Lower Upper

117 100

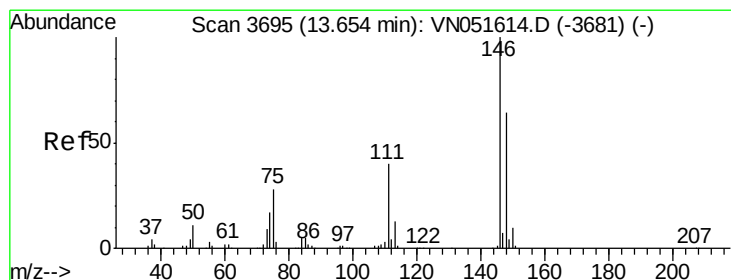
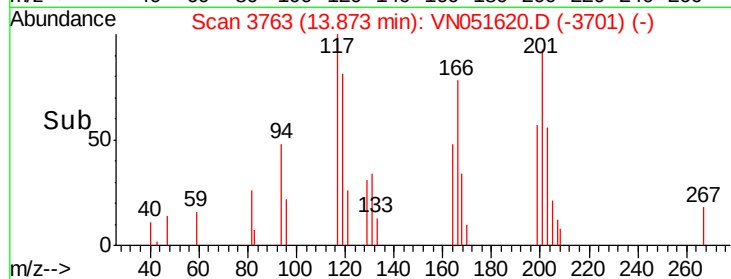
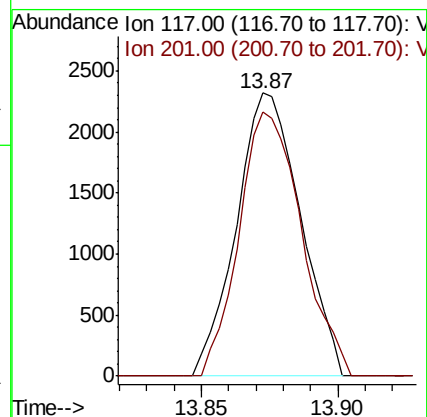
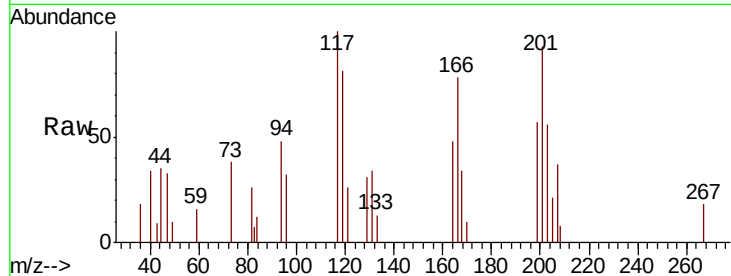
201 90.9 42.9 128.5

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:43 PM



#87

1,2-Dichlorobenzene

Concen: 27.344 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN051620.D

Acq: 28 Sep 2018 17:34

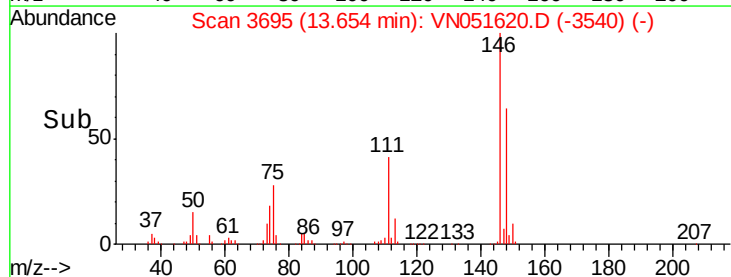
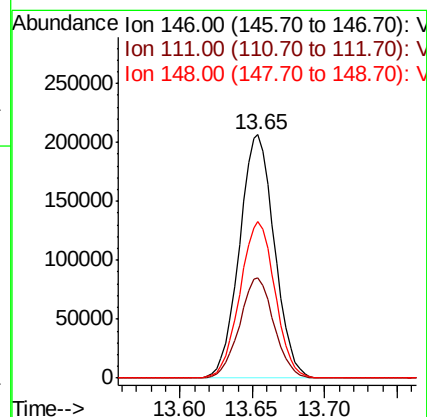
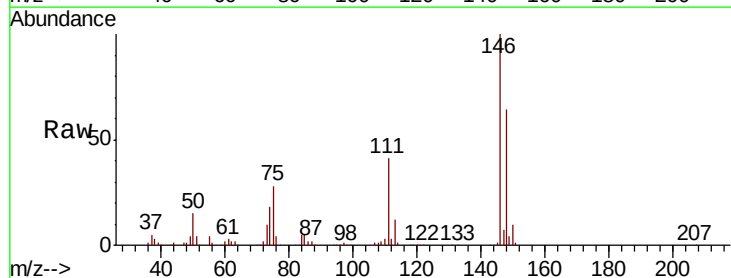
Tgt Ion:146 Resp: 346178

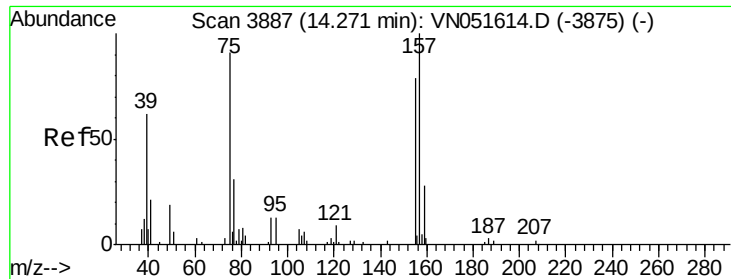
Ion Ratio Lower Upper

146 100

111 40.4 20.1 60.3

148 64.3 32.1 96.5





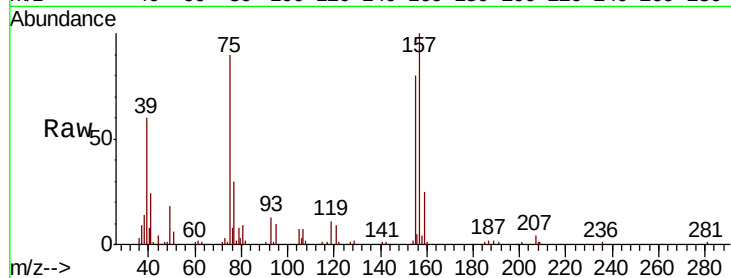
#88
 1,2-Dibromo-3-Chloropropane
 Concen: 38.108 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN051620.D
 Acq: 28 Sep 2018 17:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WPDL

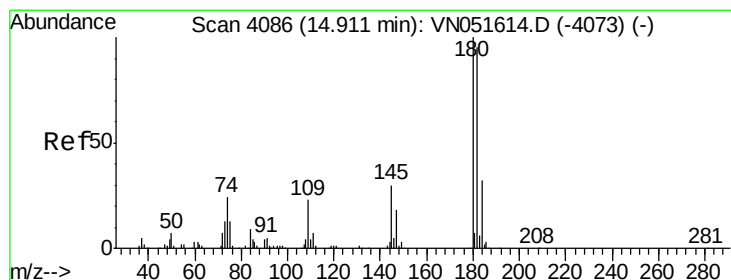
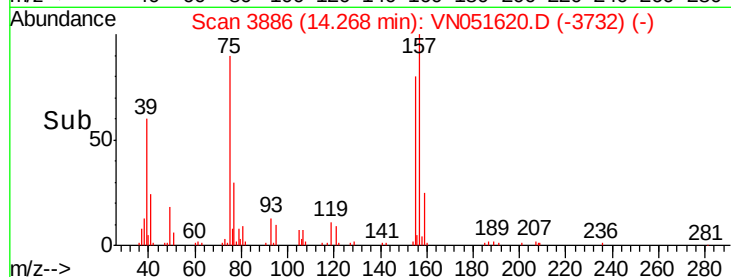
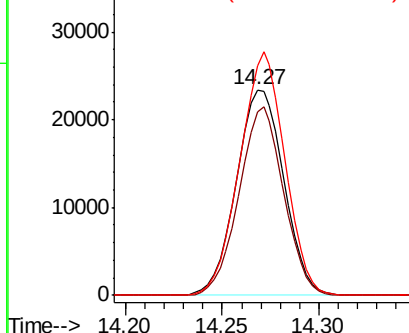
Tot Ion	Ratio	Lower	Upper
75	100		
155	85.6	67.1	100.7
157	112.1	85.8	128.6

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:43 PM

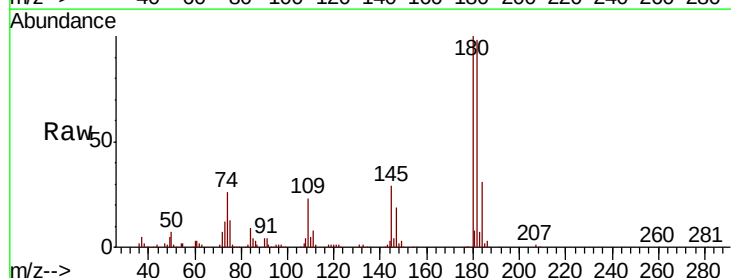


Abundance Ion 75.00 (74.70 to 75.70): VN051614.D (-3875) (-)
 Ion 155.00 (154.70 to 155.70): VN051614.D (-3875) (-)
 Ion 157.00 (156.70 to 157.70): VN051614.D (-3875) (-)

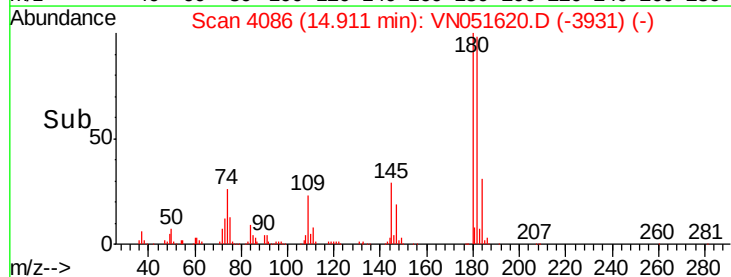
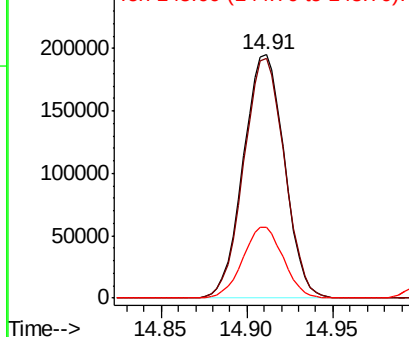


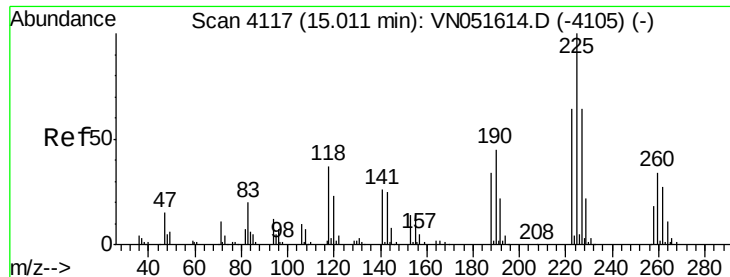
#89
 1,2,4-Trichlorobenzene
 Concen: 54.760 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN051620.D
 Acq: 28 Sep 2018 17:34

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.5	75.2	112.8
145	28.9	22.9	34.3



Abundance Ion 180.00 (179.70 to 180.70): VN051614.D (-4073) (-)
 Ion 182.00 (181.70 to 182.70): VN051614.D (-4073) (-)
 Ion 145.00 (144.70 to 145.70): VN051614.D (-4073) (-)





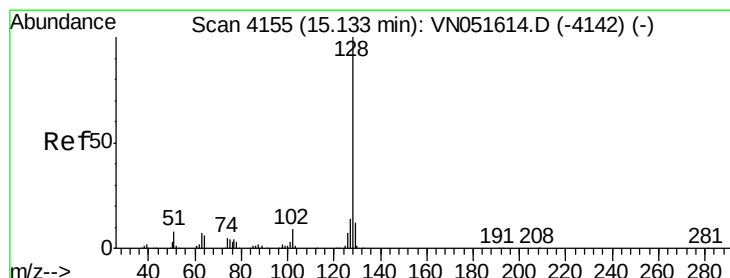
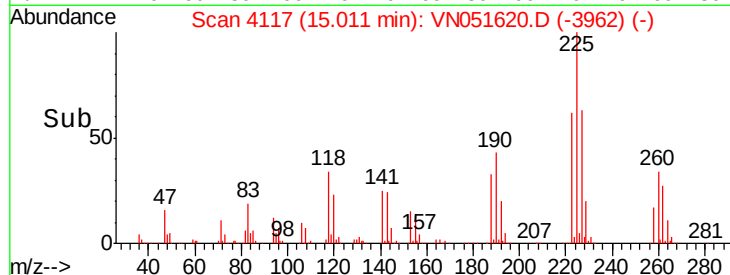
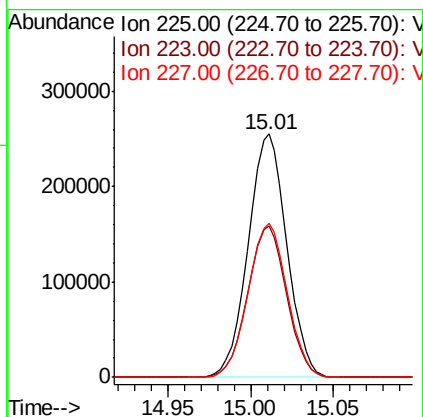
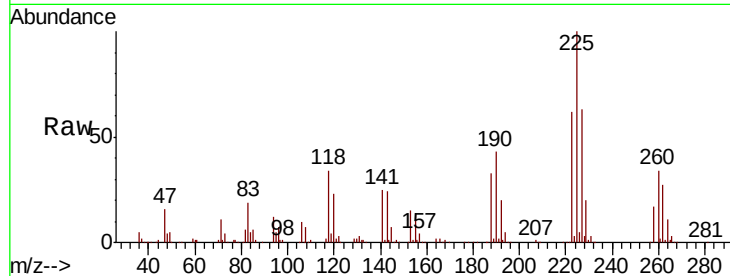
#90
Hexachlorobutadiene
Concen: 85.550 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WPDL

Tot Ion	Ratio	Resp	Lower	Upper
225	100	413275		
223	62.7	0.0	131.0	
227	64.1	0.0	129.0	

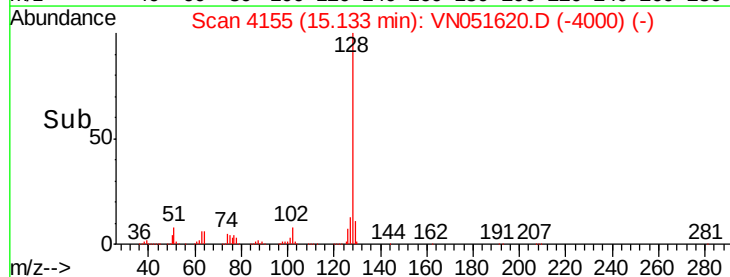
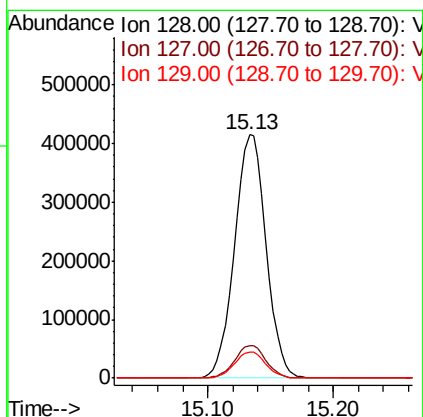
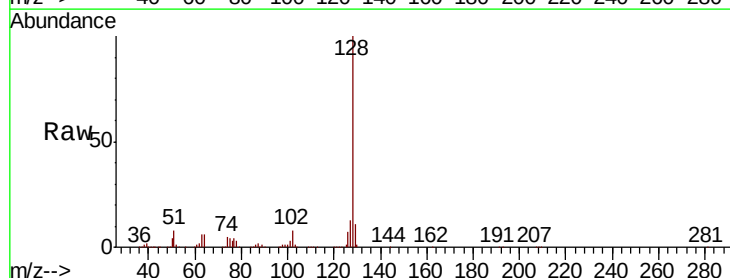
Manual Integrations
APPROVED

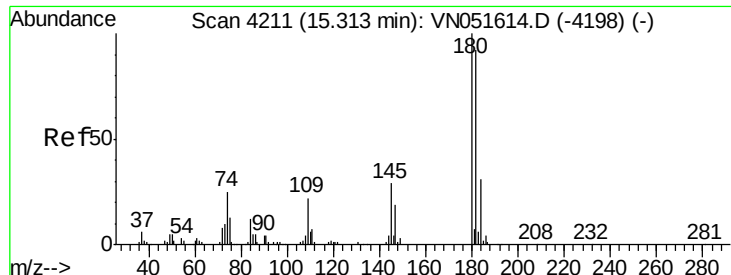
MMDadoda
10/3/2018 5:27:43 PM



#91
Naphthalene
Concen: 49.890 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN051620.D
Acq: 28 Sep 2018 17:34

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	724637		
127	13.2	10.8	16.2	
129	10.8	9.1	13.7	





#92
 1,2,3-Trichlorobenzene
 Concen: 1.502 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051620.D
 Acq: 28 Sep 2018 17:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WPDL

Tot Ion	Ratio	Resp	Lower	Upper
180	100	8953		
182	86.9		0.0	191.8
145	28.3		0.0	60.4

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:43 PM

