

Data File : VN051395.D
Acq On : 22 Sep 2018 13:56
Operator : MD\SY
Sample : VSTDICC150
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
9/24/2018 2:15:20 PM

Quant Time: Sep 24 06:03:45 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 24 05:35:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	560204	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	781436	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	728816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	405492	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	1051842	149.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	299.78%	
35) Dibromofluoromethane	7.59	113	946702	151.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	303.00%	
50) Toluene-d8	10.09	98	3827140	162.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	325.28%	
62) 4-Bromofluorobenzene	12.40	95	1277945	167.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	335.76%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.85	85	746562	142.843	ug/l	99
3) Chloromethane	2.06	50	1199725	144.200	ug/l	99
4) Vinyl Chloride	2.18	62	1366866	148.853	ug/l	99
5) Bromomethane	2.55	94	838653	152.279	ug/l	98
6) Chloroethane	2.69	64	841941	147.144	ug/l	98
7) Trichlorofluoromethane	3.01	101	1669023	138.762	ug/l	100
8) Diethyl Ether	3.41	74	538085	148.281	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	884516	130.303	ug/l	97
10) Methyl Iodide	3.95	142	1345777	148.692	ug/l	99
11) Tert butyl alcohol	4.79	59	303994	768.527	ug/l #	92
12) 1,1-Dichloroethene	3.73	96	839537	134.695	ug/l	97
13) Acrolein	3.61	56	283793	721.600	ug/l	99
14) Allyl chloride	4.32	41	1530677	146.372	ug/l	98
15) Acrylonitrile	4.99	53	1617312	750.677	ug/l	100
16) Acetone	3.82	43	1070260	732.741	ug/l	97
17) Carbon Disulfide	4.05	76	2559289	139.761	ug/l	100
18) Methyl Acetate	4.32	43	762604	142.688	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	2430120	151.195	ug/l	99
20) Methylene Chloride	4.55	84	970235	139.719	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	913718	143.302	ug/l	98
22) Diisopropyl ether	5.95	45	3077838	152.262	ug/l	97
23) Vinyl Acetate	5.90	43	10521884	792.851	ug/l	100
24) 1,1-Dichloroethane	5.85	63	1758876	145.833	ug/l	100
25) 2-Butanone	6.84	43	1799771	749.300	ug/l	100
26) 2,2-Dichloropropane	6.83	77	1401581	148.871	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	1049216	149.969	ug/l	98
28) Bromochloromethane	7.20	49	827007	148.485	ug/l	97
29) Tetrahydrofuran	7.21	42	1211860	796.158	ug/l	99
30) Chloroform	7.37	83	1753595	146.735	ug/l	100
31) Cyclohexane	7.65	56	1629025	147.422	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	1533677	150.115	ug/l	99
36) 1,1-Dichloropropene	7.79	75	1379986	152.499	ug/l	99
37) Ethyl Acetate	6.93	43	810203	155.719	ug/l	99
38) Carbon Tetrachloride	7.78	117	1430658	151.152	ug/l	98

Data File : VN051395.D
Acq On : 22 Sep 2018 13:56
Operator : MD\SY
Sample : VSTDICC150
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
9/24/2018 2:15:20 PM

Quant Time: Sep 24 06:03:45 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 24 05:35:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1694875	160.219	ug/l	99
40) Benzene	8.04	78	4009428	150.899	ug/l	99
41) Methacrylonitrile	7.18	41	456623	158.633	ug/l	98
42) 1,2-Dichloroethane	8.13	62	1281149	150.584	ug/l	100
43) Isopropyl Acetate	8.17	43	1506425	160.116	ug/l	99
44) Trichloroethene	8.84	130	1067389	151.245	ug/l	99
45) 1,2-Dichloropropane	9.12	63	1090687	151.009	ug/l	99
46) Dibromomethane	9.21	93	628904	154.107	ug/l	98
47) Bromodichloromethane	9.40	83	1384806	153.338	ug/l	99
48) Methyl methacrylate	9.20	41	775975	165.430	ug/l	99
49) 1,4-Dioxane	9.20	88	181743	3161.476	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	4256595	822.653	ug/l	99
52) Toluene	10.16	92	2662296	161.229	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	1500280	164.548	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	1708865	161.618	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	892365	152.914	ug/l	99
56) Ethyl methacrylate	10.43	69	1215931	170.418	ug/l	100
57) 1,3-Dichloropropane	10.71	76	1547192	154.681	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	3079482	752.917	ug/l	99
59) 2-Hexanone	10.75	43	2694351	803.262	ug/l	99
60) Dibromochloromethane	10.90	129	1086193	157.751	ug/l	100
61) 1,2-Dibromoethane	11.01	107	899065	158.702	ug/l	99
64) Tetrachloroethene	10.63	164	970619	146.744	ug/l	98
65) Chlorobenzene	11.43	112	2837747	151.759	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	1071691	150.431	ug/l	99
67) Ethyl Benzene	11.51	91	4958633	157.352	ug/l	100
68) m/p-Xylenes	11.62	106	3810492	312.606	ug/l	100
69) o-Xylene	11.95	106	1826211	155.844	ug/l	97
70) Styrene	11.96	104	2990506	161.052	ug/l	99
71) Bromoform	12.13	173	760972	157.418	ug/l #	99
73) Isopropylbenzene	12.25	105	4994139	145.972	ug/l	99
74) N-amyl acetate	12.07	43	1352420	157.548	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	1089872	136.607	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	921274m	140.845	ug/l	
77) Bromobenzene	12.53	156	1249035	144.214	ug/l	99
78) n-propylbenzene	12.59	91	5794528	150.277	ug/l	99
79) 2-Chlorotoluene	12.67	91	3292375	142.646	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	4105290	147.156	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	357783	163.436	ug/l	95
82) 4-Chlorotoluene	12.77	91	3393390	147.304	ug/l	99
83) tert-Butylbenzene	12.99	119	3642900	146.708	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	4170014	148.338	ug/l	99
85) sec-Butylbenzene	13.17	105	4978713	148.210	ug/l	99
86) p-Isopropyltoluene	13.29	119	4447292	153.001	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	2228088	148.659	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	2167115	150.272	ug/l	99
89) n-Butylbenzene	13.62	91	3855951	161.322	ug/l	99
90) Hexachloroethane	13.87	117	812562	140.302	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	2086346	143.467	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	170088	149.389	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092318\
Quantitation Report (QT Reviewed)

Data File : VN051395.D
Acq On : 22 Sep 2018 13:56
Operator : MD\SY
Sample : VSTDICC150
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
9/24/2018 2:15:20 PM

Quant Time: Sep 24 06:03:45 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 24 05:35:54 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1306258	152.661	ug/l	99
94) Hexachlorobutadiene	15.01	225	760308	138.183	ug/l	99
95) Naphthalene	15.13	128	2622109	153.984	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	1224002	175.388	ug/l	99

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

Data File : VN051395.D

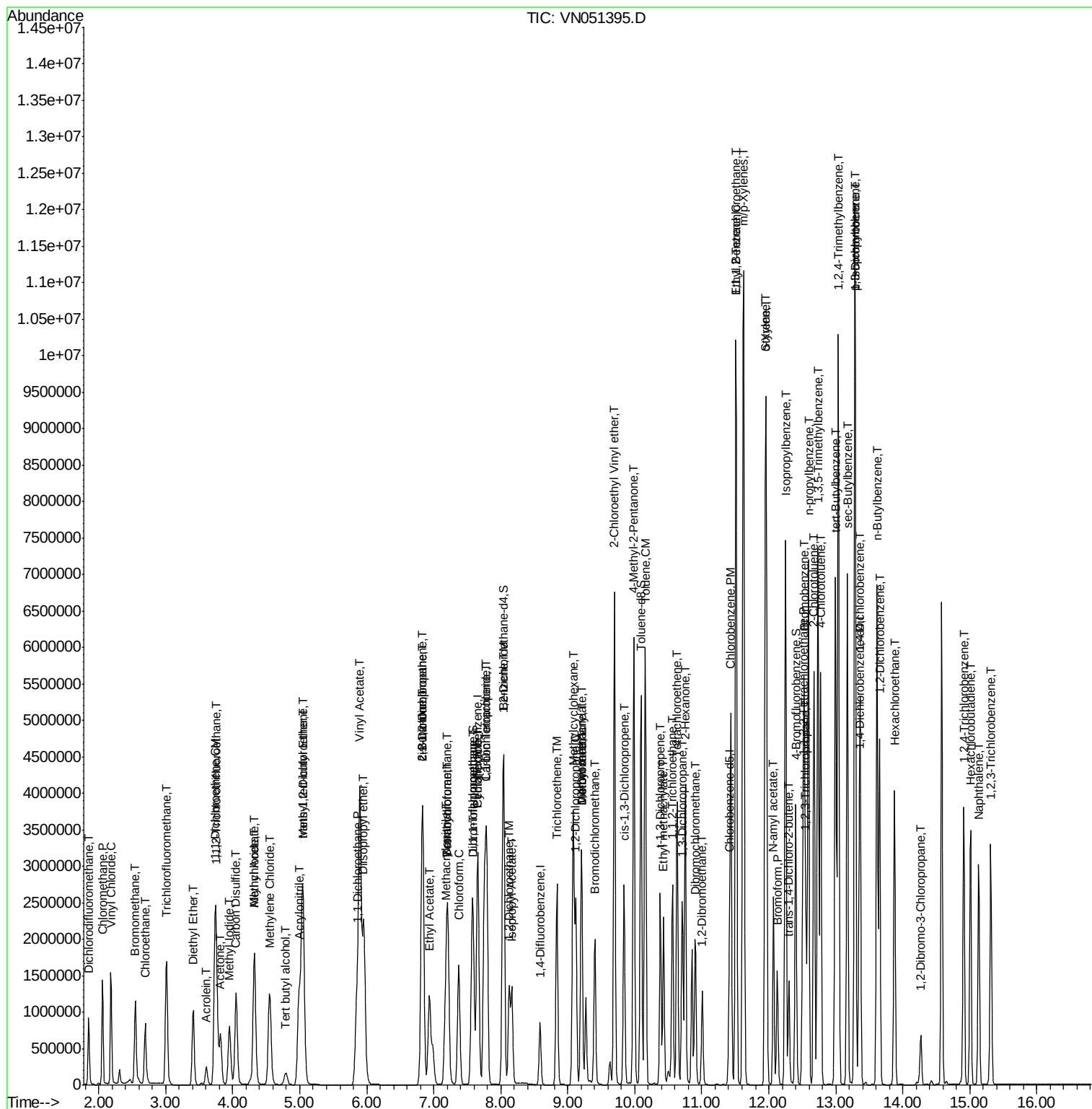
```
Acq On       : 22 Sep 2018   13:56
Operator    : MD\SY
Sample      : VSTDICC150
Misc       : 5.00mL/MSV0A_N/WATER
ALS Vial    : 6      Sample Multiplier: 1
```

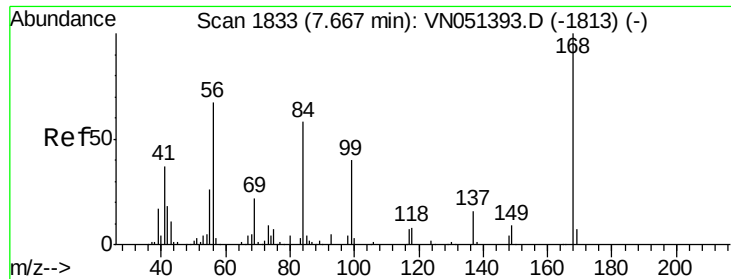
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
9/24/2018 2:15:20 PM

Quant Time: Sep 24 06:03:45 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 24 05:35:54 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tgt Ion:168 Resp: 560204

Ion Ratio Lower Upper

168 100

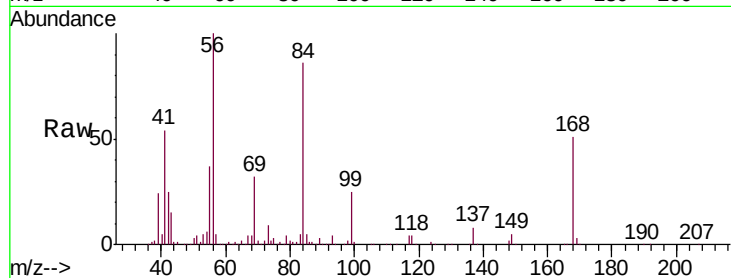
99 49.8 40.2 60.2

Manual Integrations

APPROVED

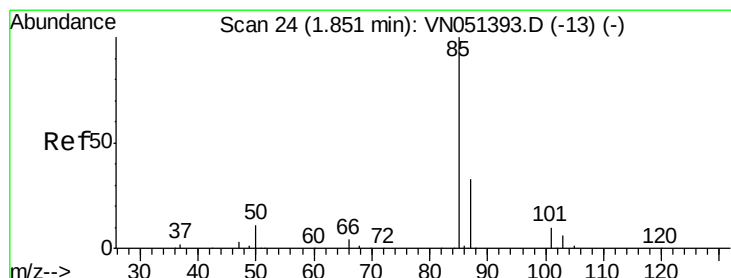
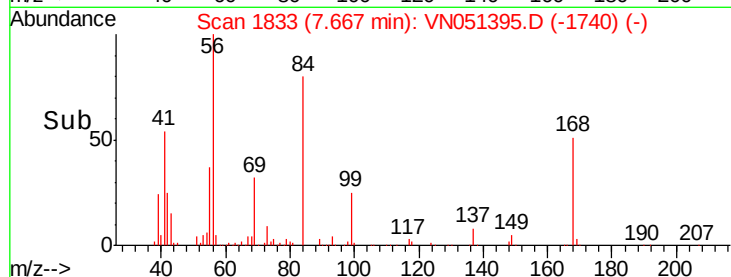
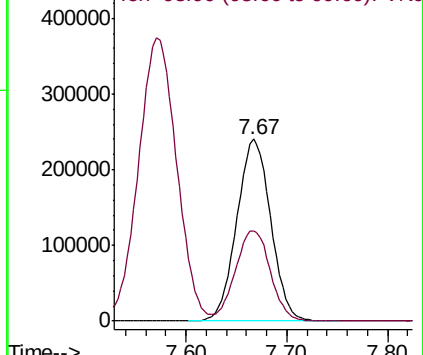
MMDadoda

9/24/2018 2:15:20 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 142.843 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN051395.D

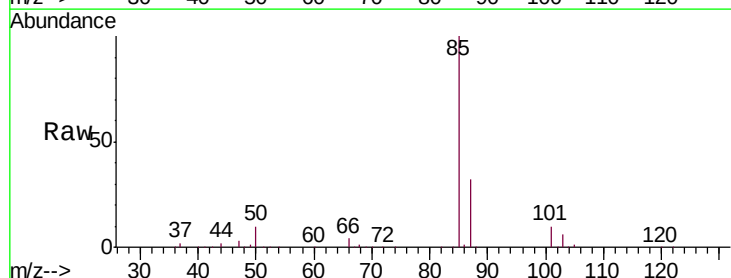
Acq: 22 Sep 2018 13:56

Tgt Ion: 85 Resp: 746562

Ion Ratio Lower Upper

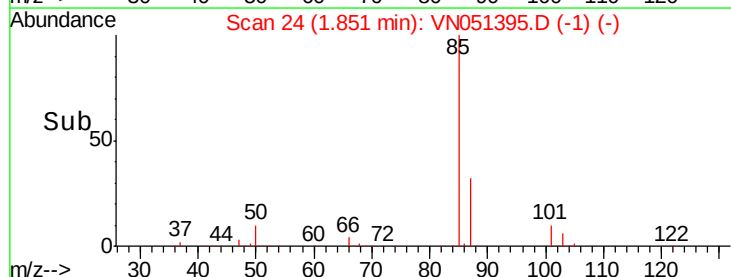
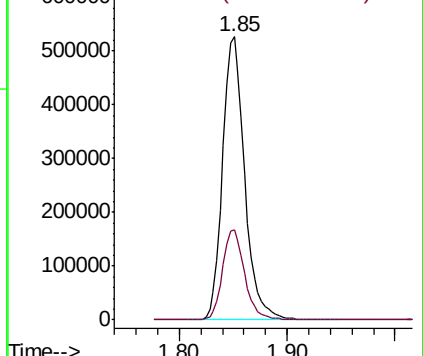
85 100

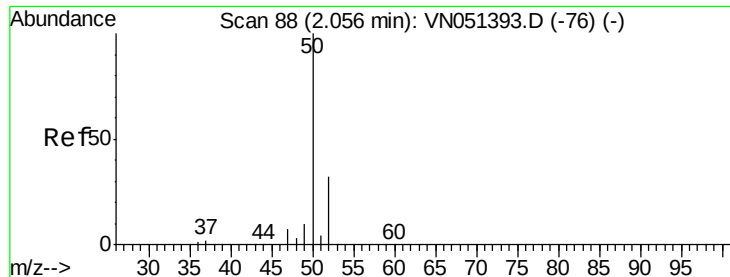
87 32.0 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 144.200 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 50 Resp: 1199725

Ion Ratio Lower Upper

50 100

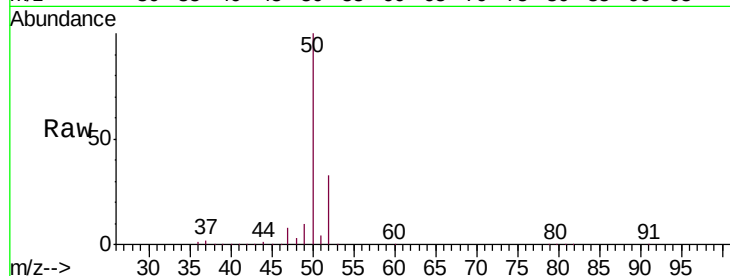
52 32.7 25.7 38.5

Manual Integrations

APPROVED

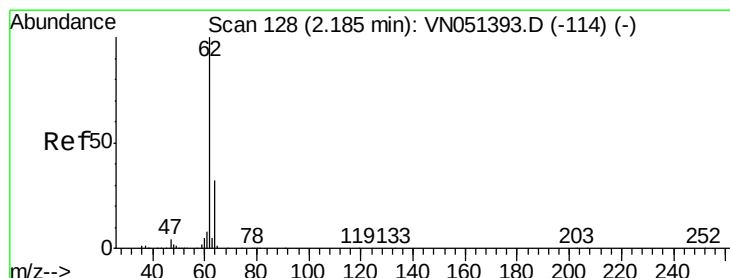
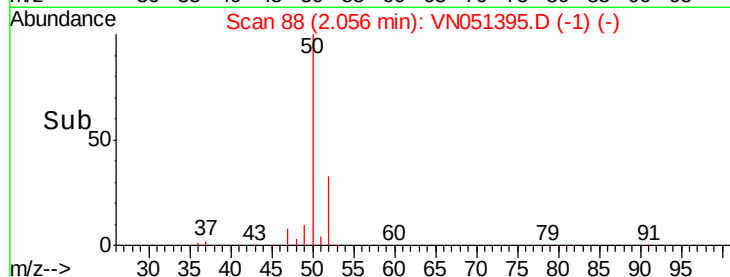
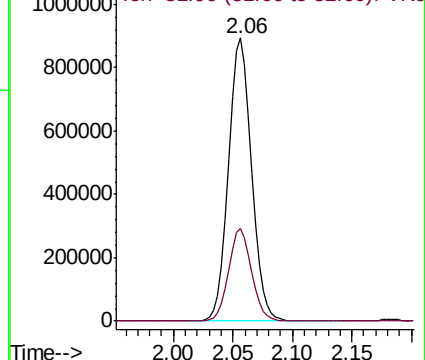
MMDadoda

9/24/2018 2:15:20 PM



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 148.853 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051395.D

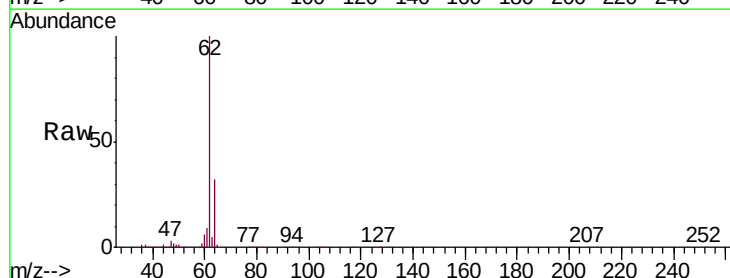
Acq: 22 Sep 2018 13:56

Tgt Ion: 62 Resp: 1366866

Ion Ratio Lower Upper

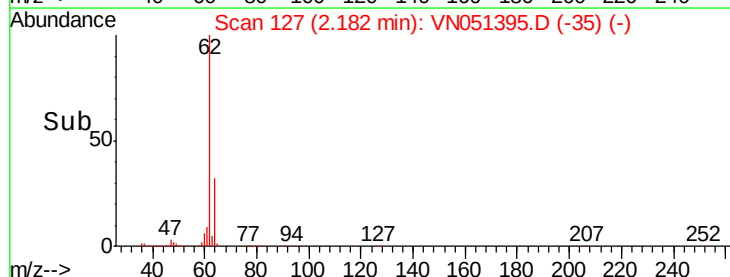
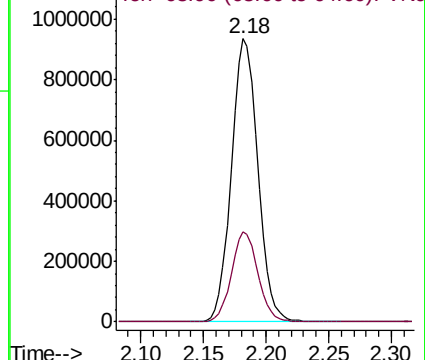
62 100

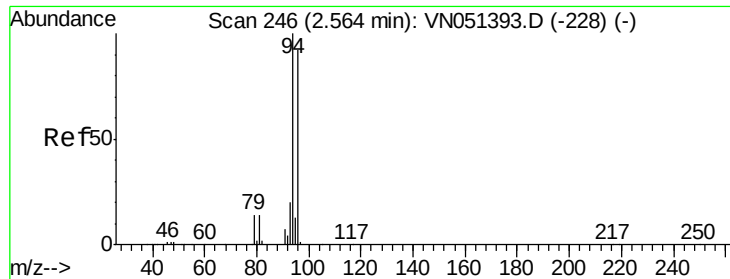
64 31.8 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 152.279 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.02 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 94 Resp: 838653

Ion Ratio Lower Upper

94 100

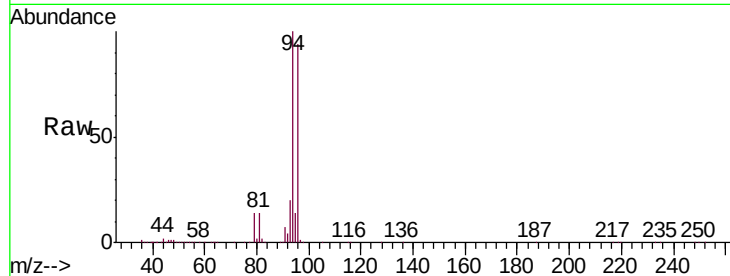
96 93.7 73.6 110.4

Manual Integrations

APPROVED

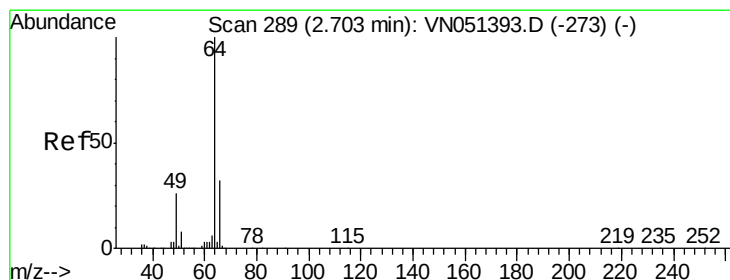
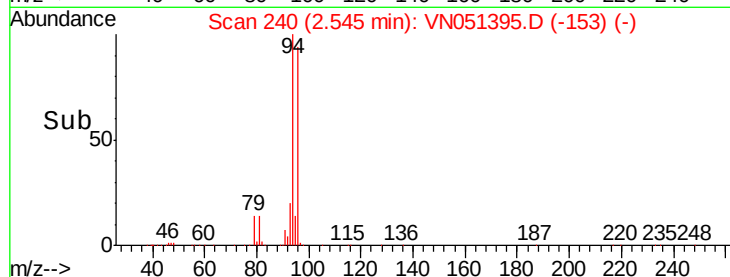
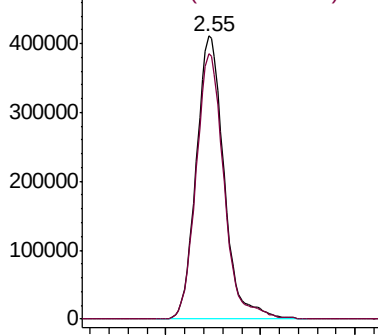
MMDadoda

9/24/2018 2:15:20 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 147.144 ug/l

RT: 2.69 min Scan# 286

Delta R.T. -0.01 min

Lab File: VN051395.D

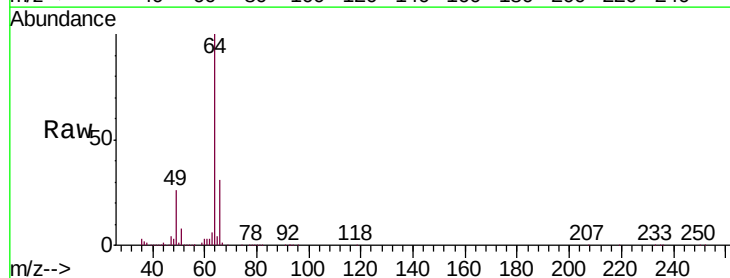
Acq: 22 Sep 2018 13:56

Tgt Ion: 64 Resp: 841941

Ion Ratio Lower Upper

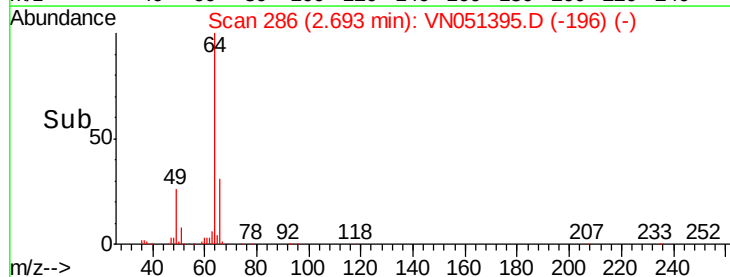
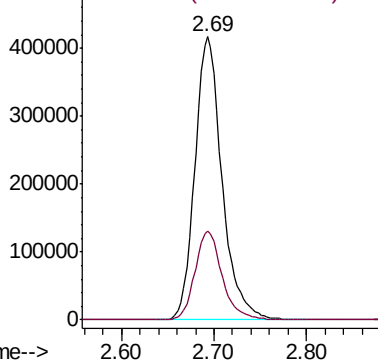
64 100

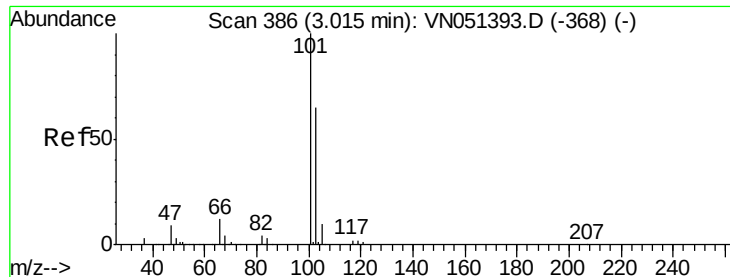
66 31.4 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

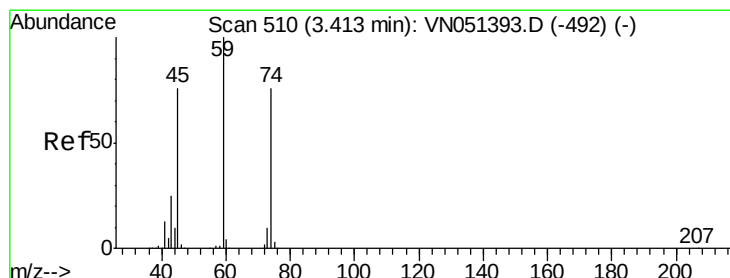
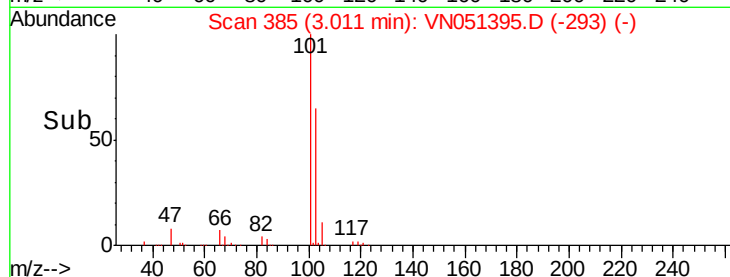
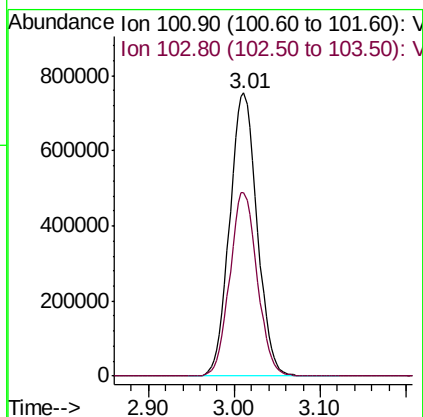
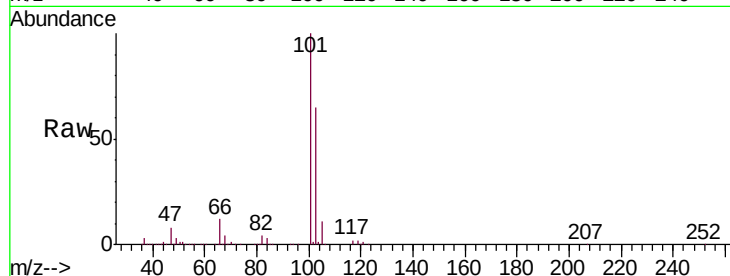
Trichlorofluoromethane
 Concen: 138.762 ug/l
 RT: 3.01 min Scan# 385
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 101 Resp: 1669023
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.8 77.8

Manual Integrations
 APPROVED

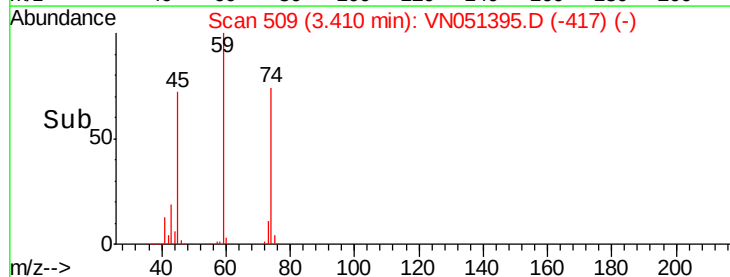
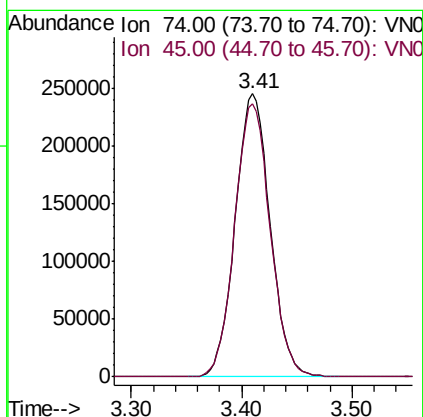
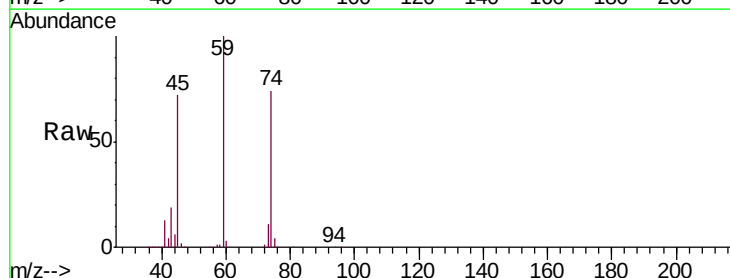
MMDadoda
 9/24/2018 2:15:20 PM

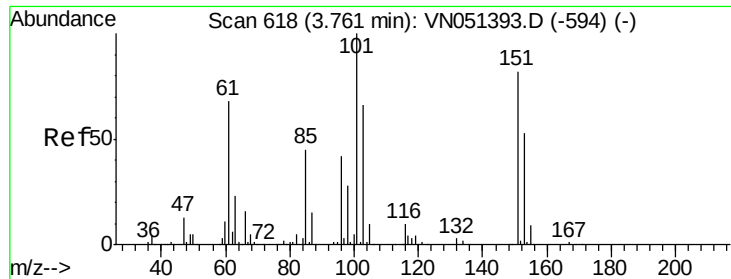


#8

Diethyl Ether
 Concen: 148.281 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Tgt Ion: 74 Resp: 538085
 Ion Ratio Lower Upper
 74 100
 45 97.9 50.2 150.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 130.303 ug/l

RT: 3.76 min Scan# 617

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

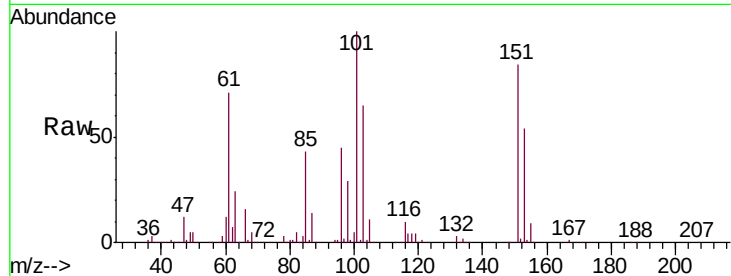
ClientSampled :

VSTDIC150

Tgt Ion:	101	Resp:	884516
Ion Ratio	Lower	Upper	
101	100		
85	43.6	33.9	50.9
151	84.5	65.2	97.8

Manual Integrations
APPROVED

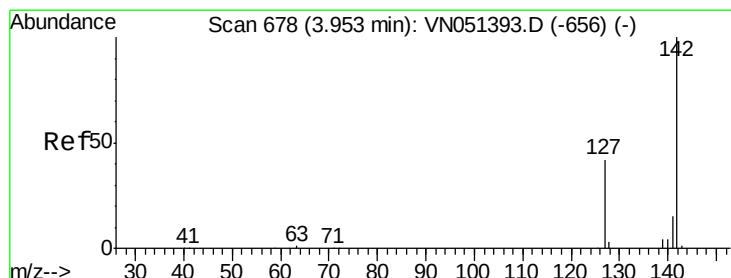
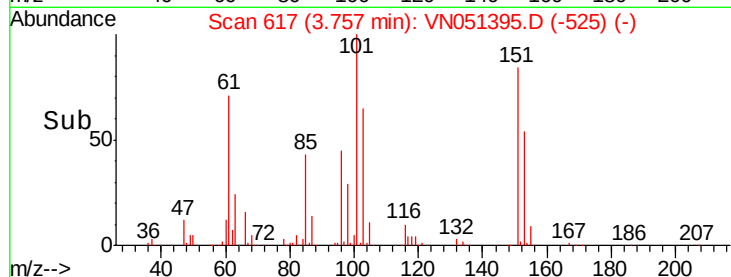
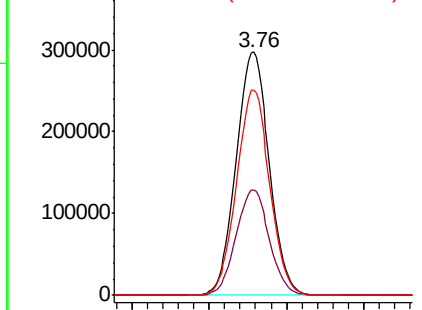
MMDadoda
9/24/2018 2:15:20 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 148.692 ug/l

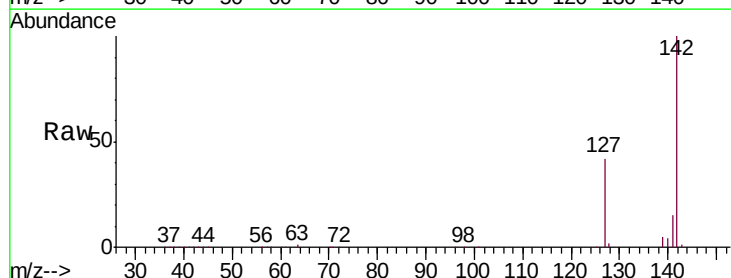
RT: 3.95 min Scan# 677

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

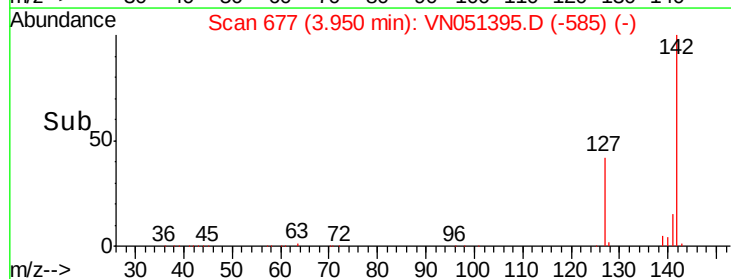
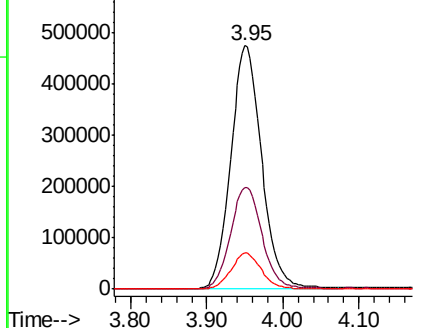
Tgt Ion:	142	Resp:	1345777
Ion Ratio	Lower	Upper	
142	100		
127	42.7	33.2	49.8
141	14.5	11.5	17.3

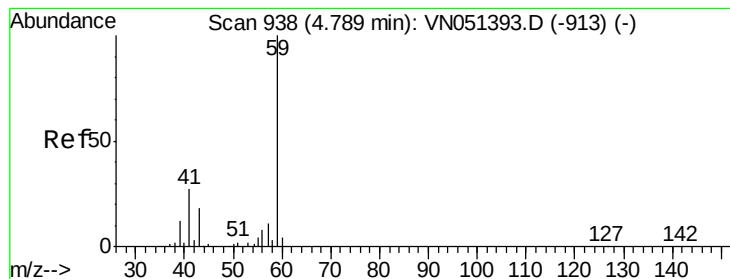


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

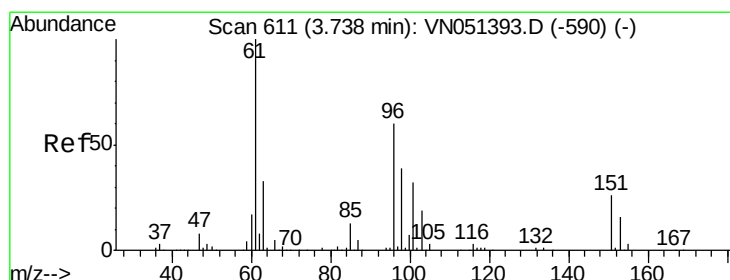
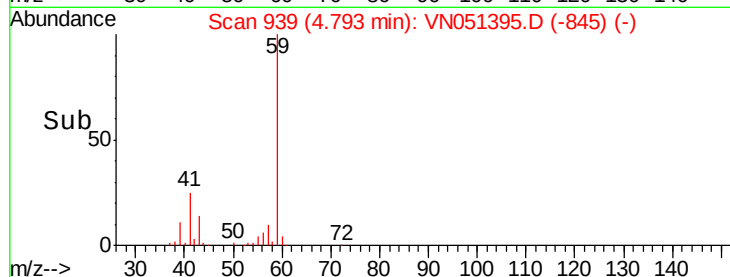
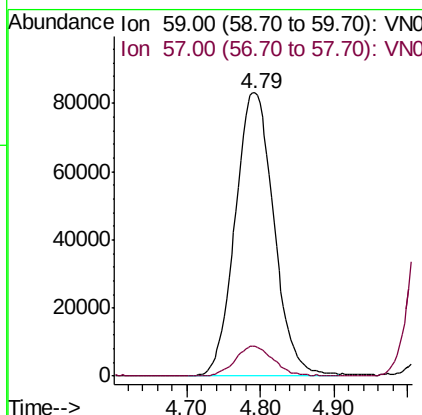
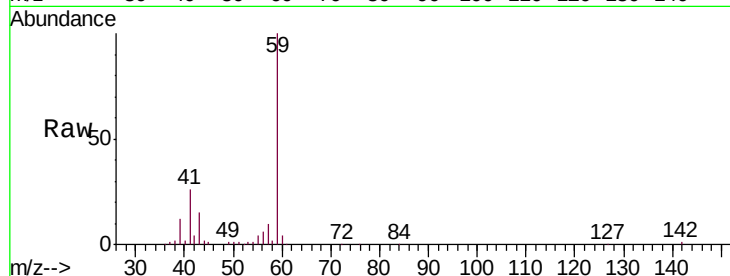
Tert butyl alcohol
 Concen: 768.527 ug/l
 RT: 4.79 min Scan# 939
 Delta R.T. 0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tgt Ion: 59 Resp: 303994
 Ion Ratio Lower Upper
 59 100
 57 10.5 6.2 9.2#

Manual Integrations
 APPROVED

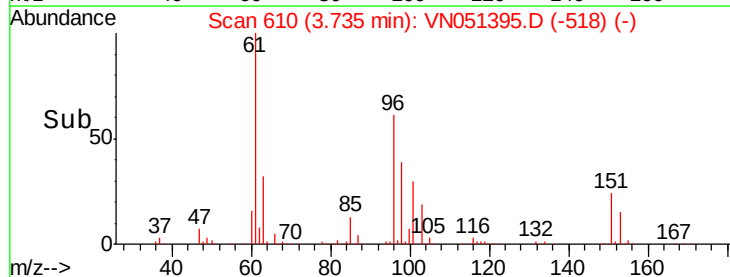
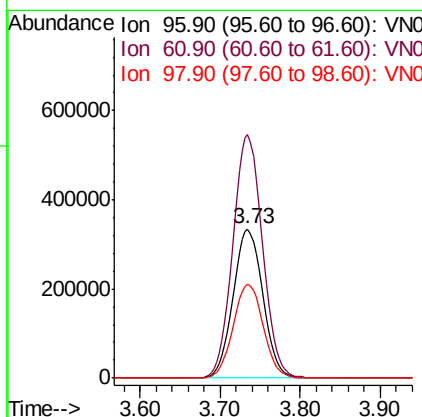
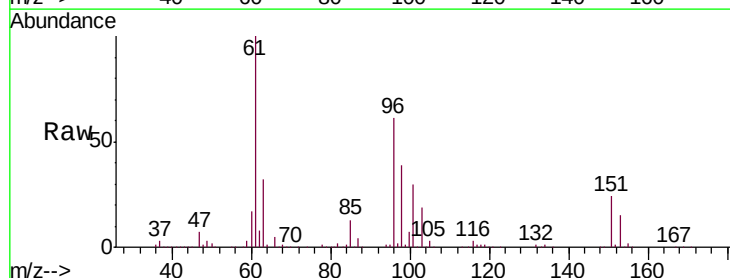
MMDadoda
 9/24/2018 2:15:20 PM

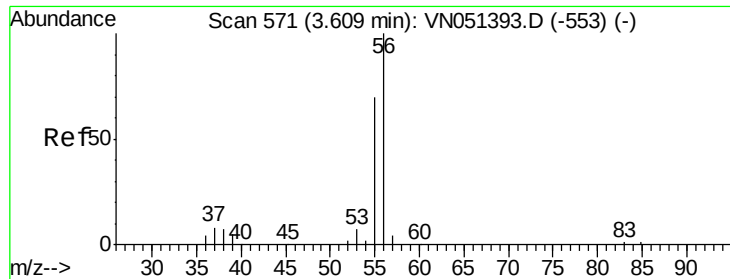


#12

1,1-Dichloroethene
 Concen: 134.695 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Tgt Ion: 96 Resp: 839537
 Ion Ratio Lower Upper
 96 100
 61 163.6 133.6 200.4
 98 63.1 52.2 78.2





#13

Acrolein

Concen: 721.600 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tgt Ion: 56 Resp: 283793

Ion Ratio Lower Upper

56 100

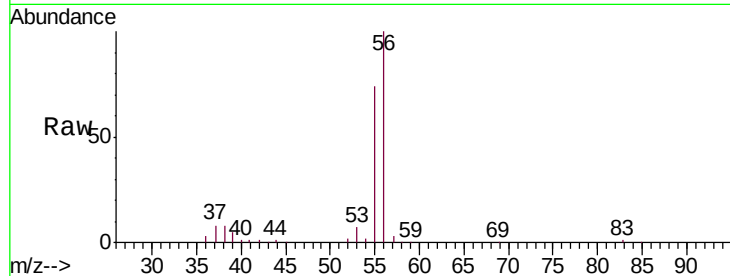
55 71.2 57.8 86.8

Manual Integrations

APPROVED

MMDadoda

9/24/2018 2:15:20 PM



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

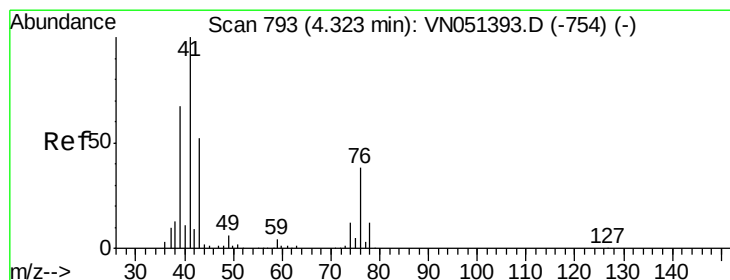
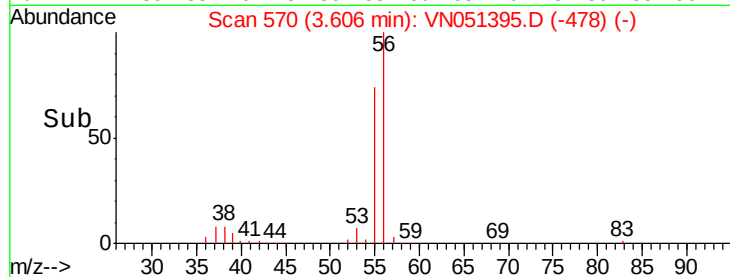
3.61

100000

50000

0

Time-->



#14

Allyl chloride

Concen: 146.372 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

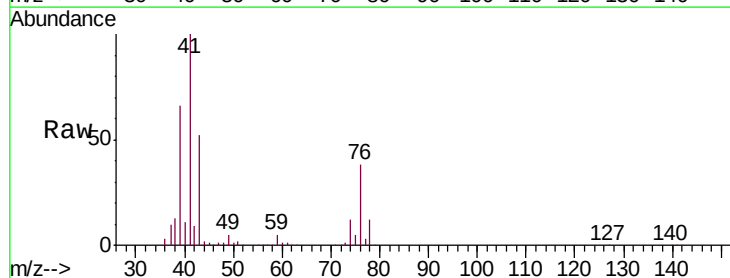
Tgt Ion: 41 Resp: 1530677

Ion Ratio Lower Upper

41 100

39 62.9 51.4 77.2

76 35.9 28.1 42.1



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

4.32

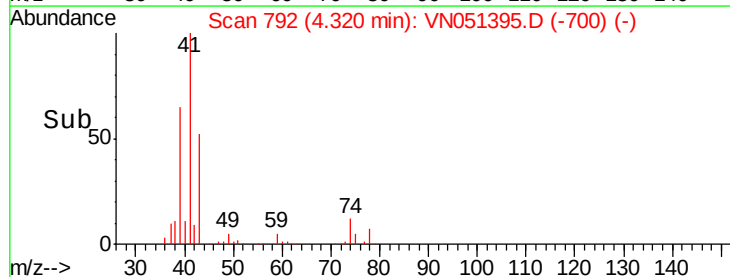
600000

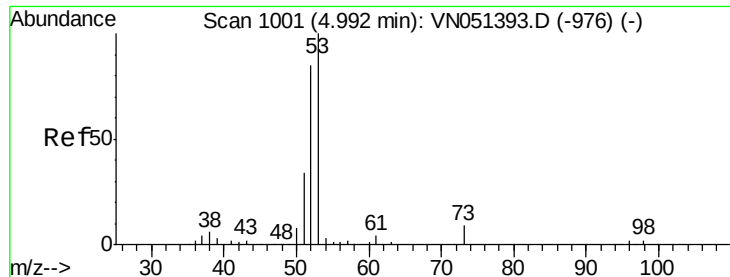
400000

200000

0

Time-->





#15

Acrylonitrile

Concen: 750.677 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 53 Resp: 1617312

Ion Ratio Lower Upper

53 100

52 82.7 66.2 99.2

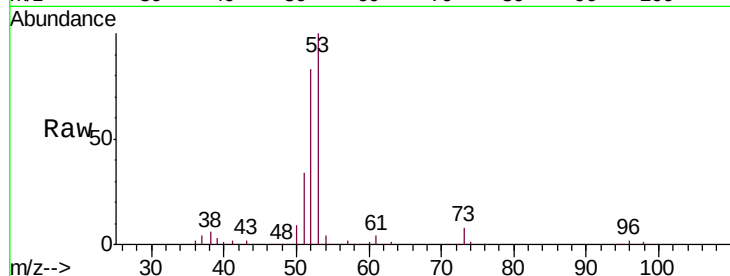
51 36.0 28.6 42.8

Manual Integrations

APPROVED

MMDadoda

9/24/2018 2:15:20 PM

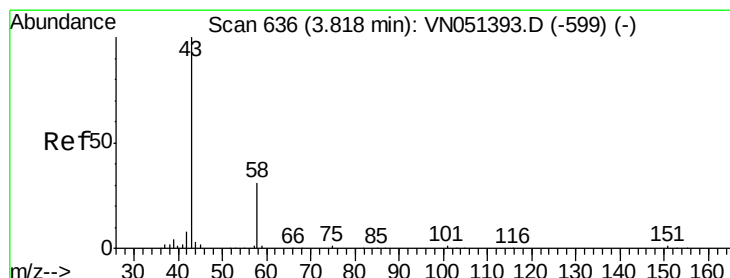
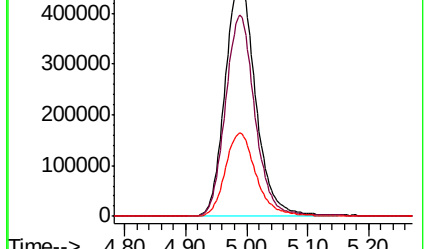
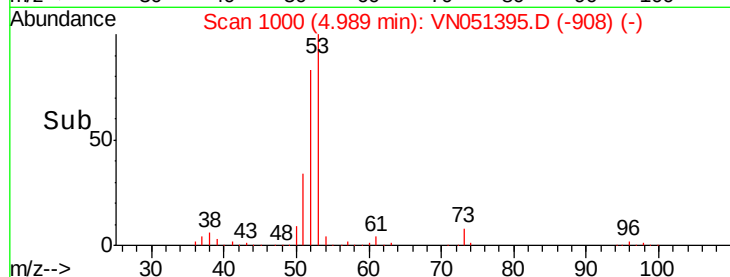


Abundance Ion 53.00 (52.70 to 53.70): VN051395.D (-976) (-)

Ion 52.00 (51.70 to 52.70): VN051395.D (-976) (-)

Ion 51.00 (50.70 to 51.70): VN051395.D (-976) (-)

Time-->



#16

Acetone

Concen: 732.741 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051395.D

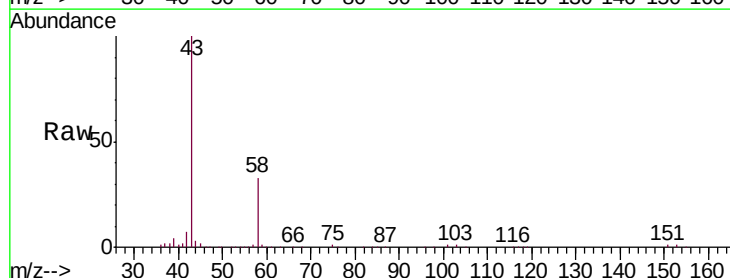
Acq: 22 Sep 2018 13:56

Tgt Ion: 43 Resp: 1070260

Ion Ratio Lower Upper

43 100

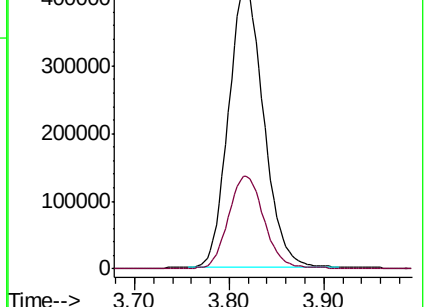
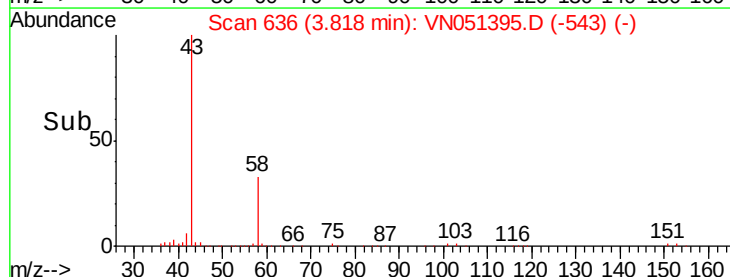
58 32.7 25.0 37.4

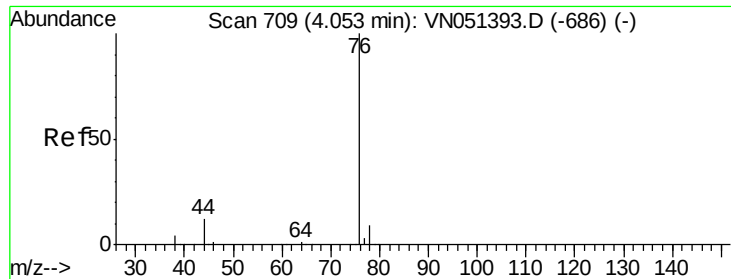


Abundance Ion 43.00 (42.70 to 43.70): VN051395.D (-543) (-)

Ion 58.00 (57.70 to 58.70): VN051395.D (-543) (-)

Time-->





#17

Carbon Disulfide

Concen: 139.761 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tgt Ion: 76 Resp: 2559289

Ion Ratio Lower Upper

76 100

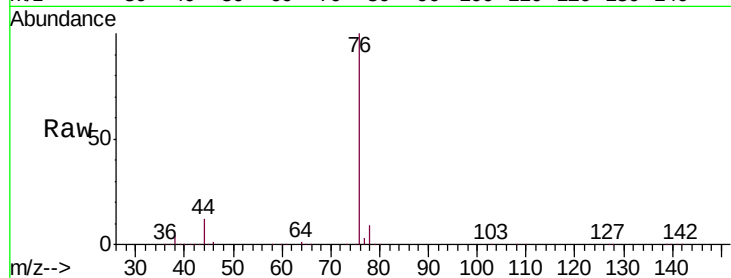
78 9.1 7.3 10.9

Manual Integrations

APPROVED

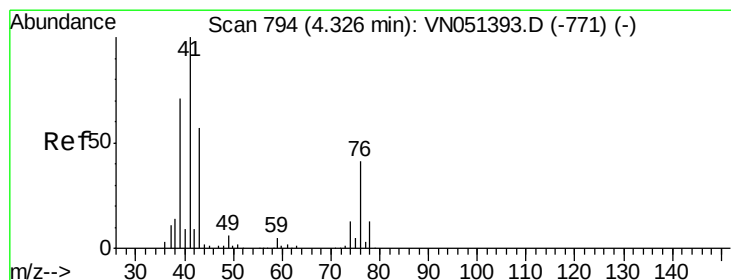
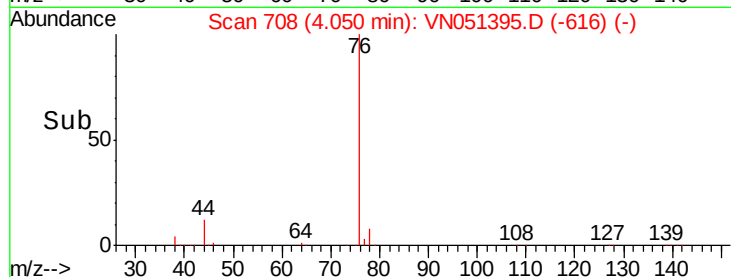
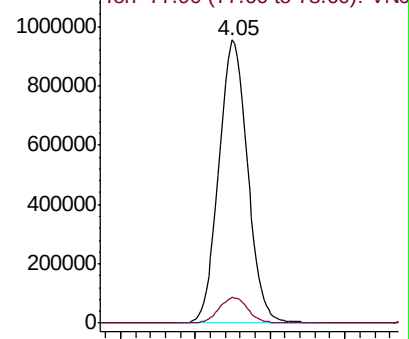
MMDadoda

9/24/2018 2:15:20 PM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 142.688 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN051395.D

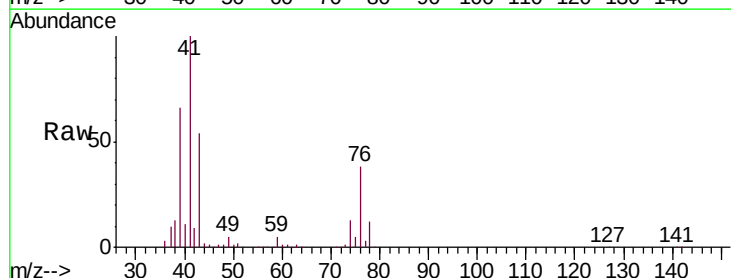
Acq: 22 Sep 2018 13:56

Tgt Ion: 43 Resp: 762604

Ion Ratio Lower Upper

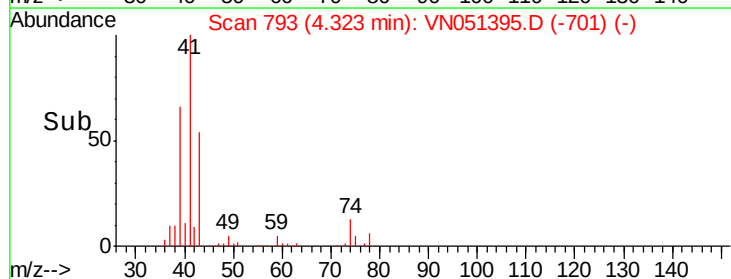
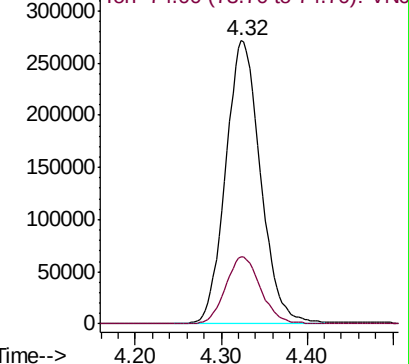
43 100

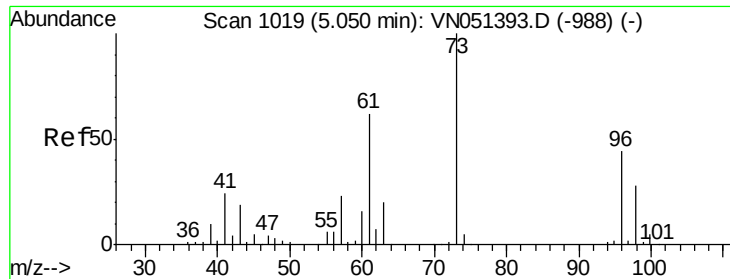
74 24.0 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO





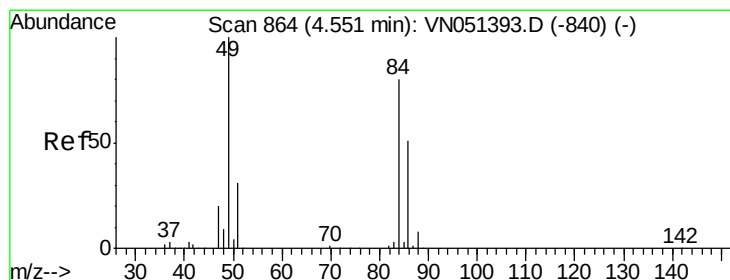
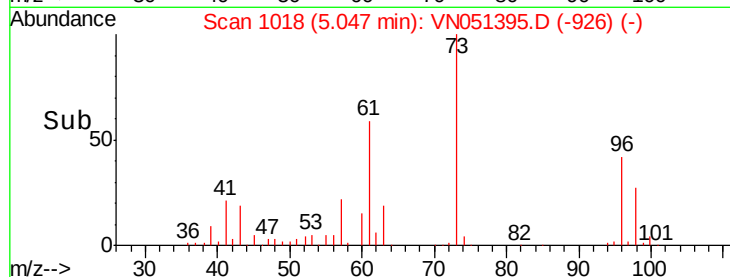
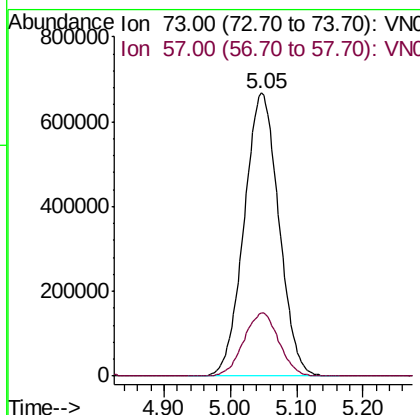
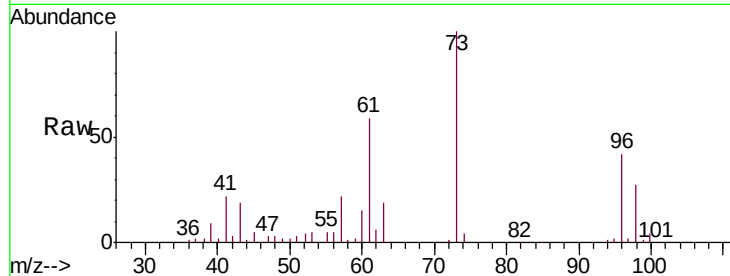
#19
Methyl tert-butyl Ether
Concen: 151.195 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 73 Resp: 2430120
Ion Ratio Lower Upper
73 100
57 22.3 18.3 27.5

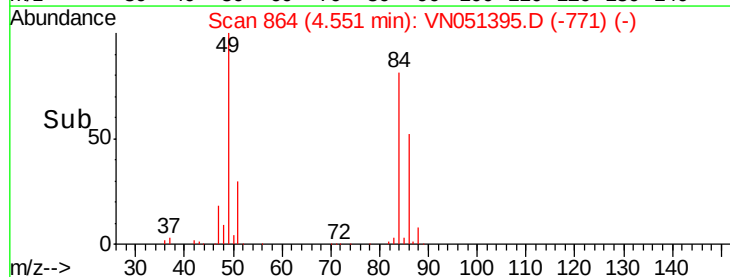
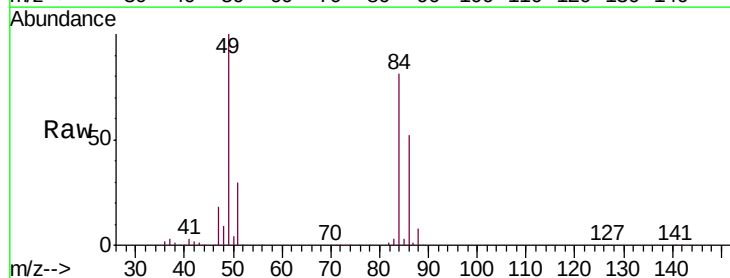
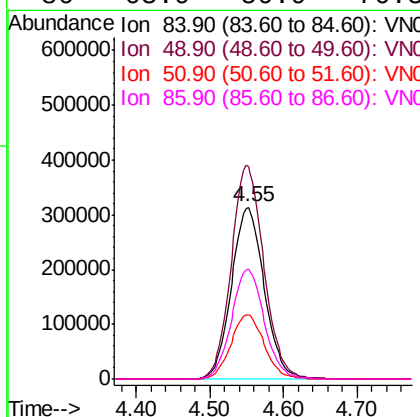
Manual Integrations
APPROVED

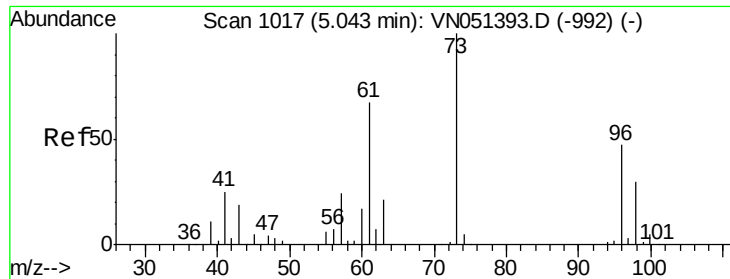
MMDadoda
9/24/2018 2:15:20 PM



#20
Methylene Chloride
Concen: 139.719 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion: 84 Resp: 970235
Ion Ratio Lower Upper
84 100
49 123.6 99.9 149.9
51 37.7 31.4 47.2
86 63.9 50.9 76.3





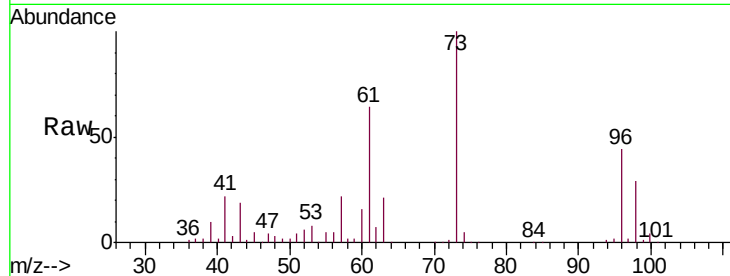
#21
trans-1,2-Dichloroethene
Concen: 143.302 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
96	100		
61	144.9	113.4	170.2
98	64.9	51.1	76.7

Manual Integrations
APPROVED

MMDadoda
9/24/2018 2:15:20 PM

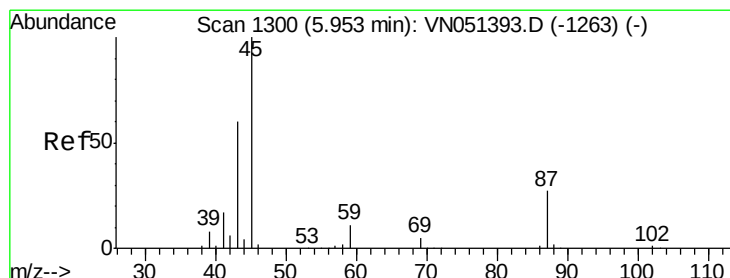
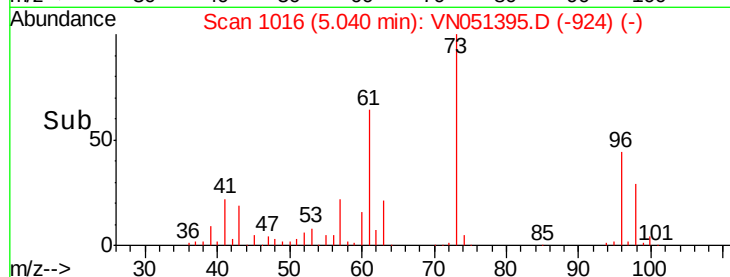
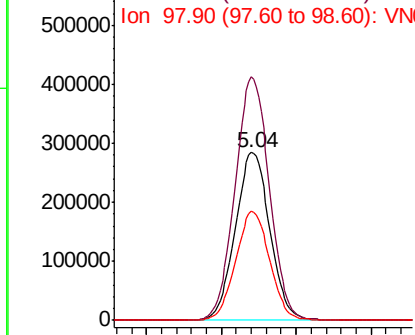


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22
Diisopropyl ether
Concen: 152.262 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.9	47.7	71.5
87	27.4	22.0	33.0
59	11.6	9.3	13.9

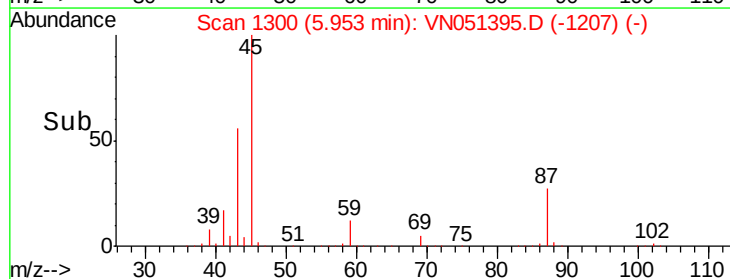
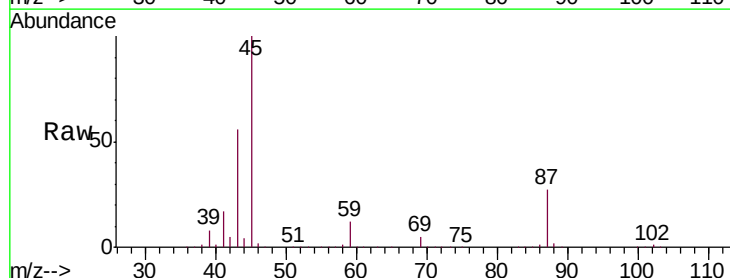
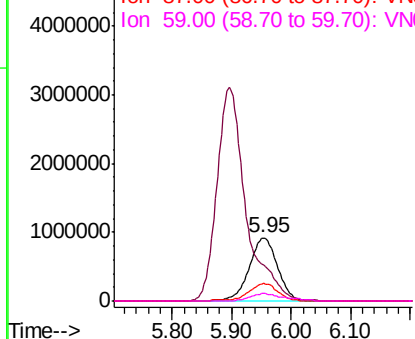
Abundance

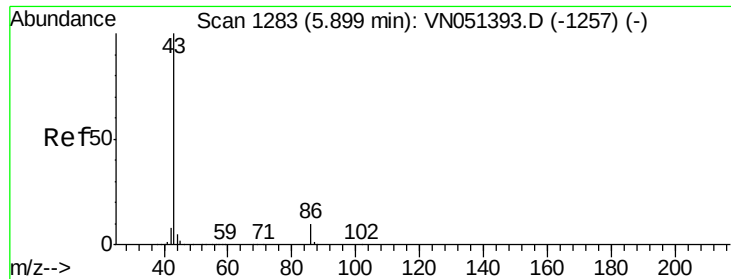
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





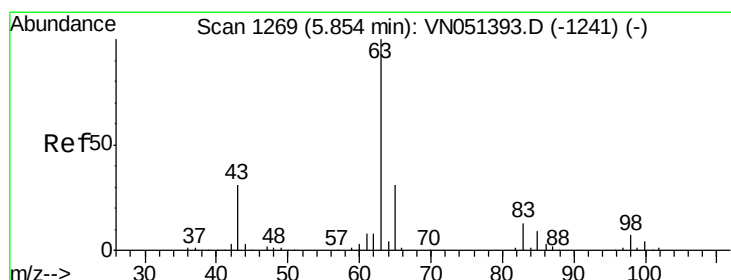
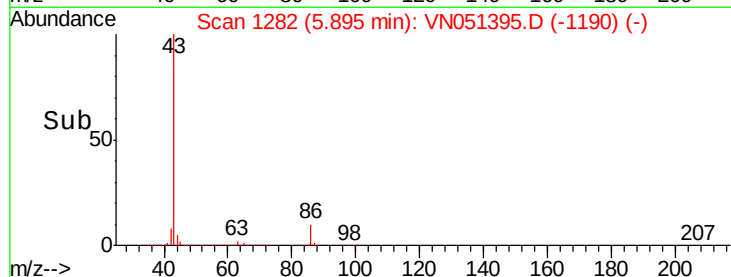
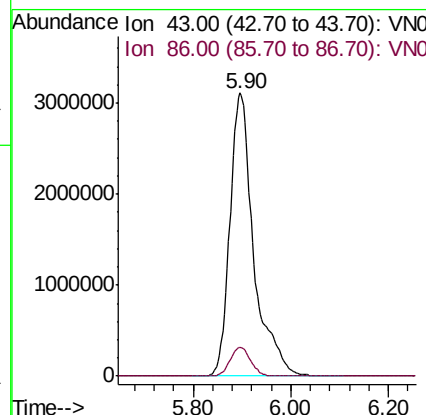
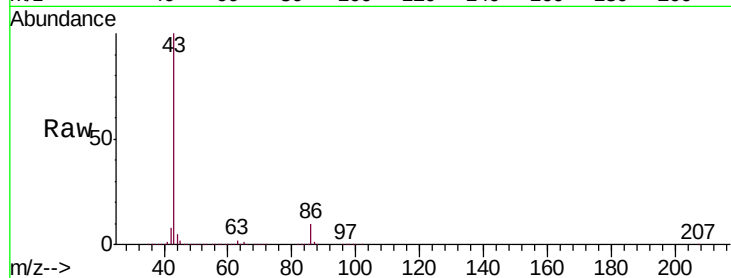
#23
 Vinyl Acetate
 Concen: 792.851 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 43 Resp:10521884
 Ion Ratio Lower Upper
 43 100
 86 10.2 8.2 12.2

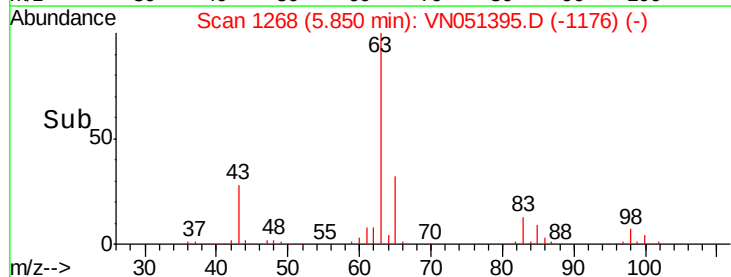
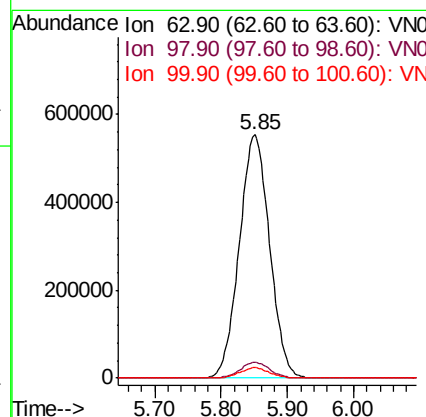
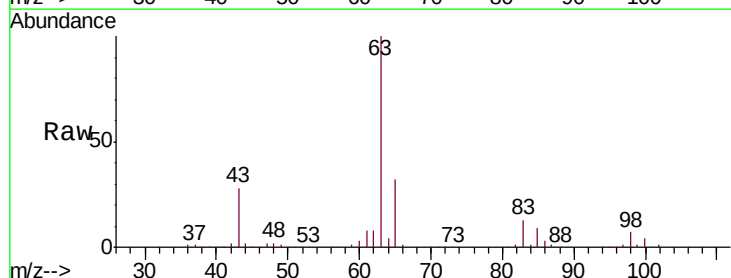
Manual Integrations
 APPROVED

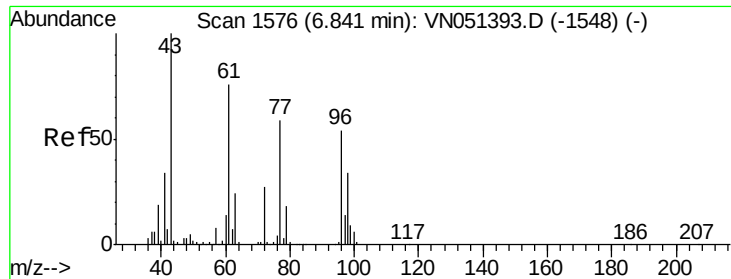
MMDadoda
 9/24/2018 2:15:20 PM



#24
 1,1-Dichloroethane
 Concen: 145.833 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Tgt Ion: 63 Resp: 1758876
 Ion Ratio Lower Upper
 63 100
 98 6.7 3.4 10.1
 100 4.2 2.2 6.6





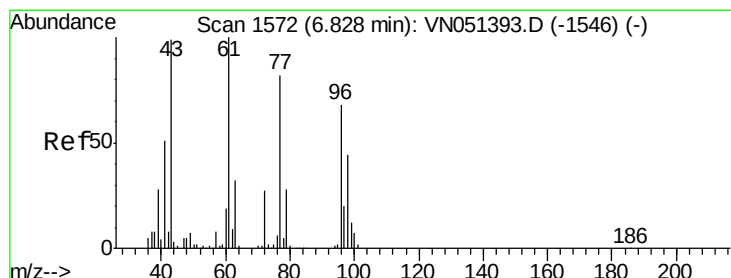
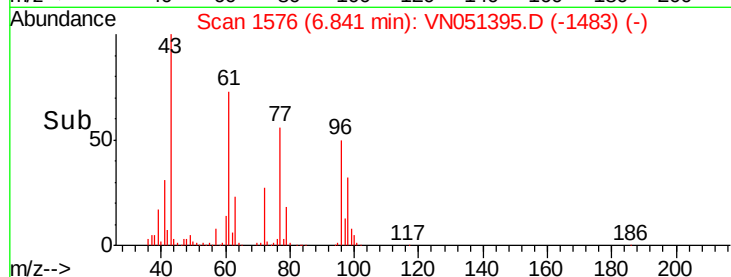
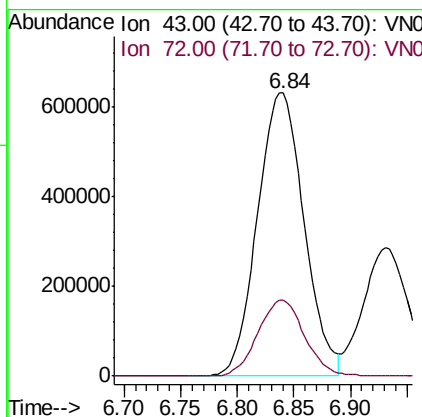
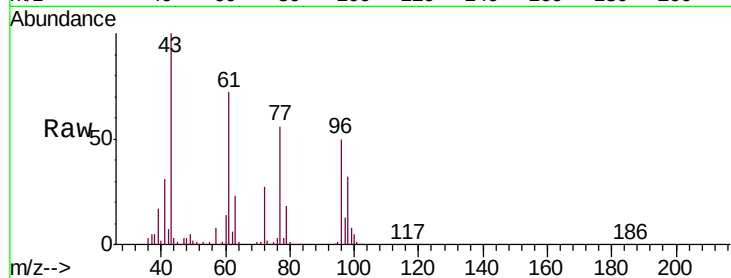
#25
 2-Butanone
 Concen: 749.300 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tgt Ion: 43 Resp: 1799771
 Ion Ratio Lower Upper
 43 100
 72 27.0 21.8 32.6

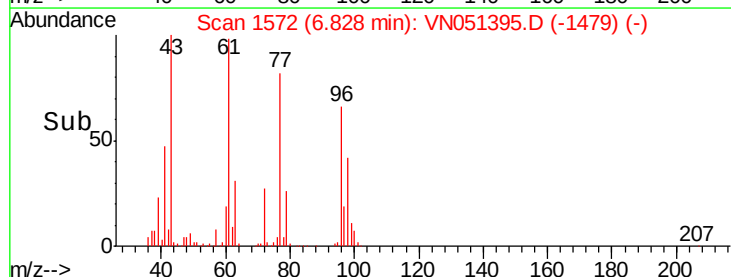
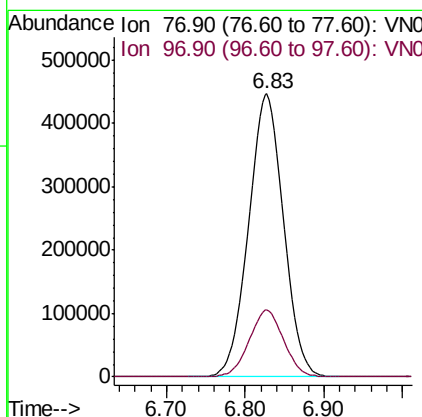
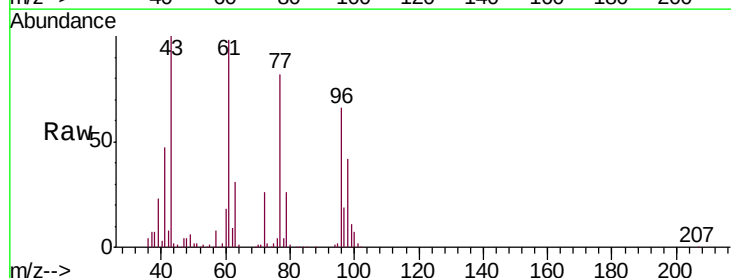
Manual Integrations
 APPROVED

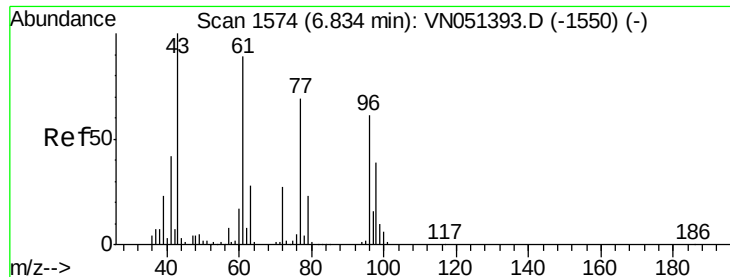
MMDadoda
 9/24/2018 2:15:20 PM



#26
 2,2-Dichloropropane
 Concen: 148.871 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Tgt Ion: 77 Resp: 1401581
 Ion Ratio Lower Upper
 77 100
 97 23.5 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 149.969 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 1049216

Ion Ratio Lower Upper

96 100

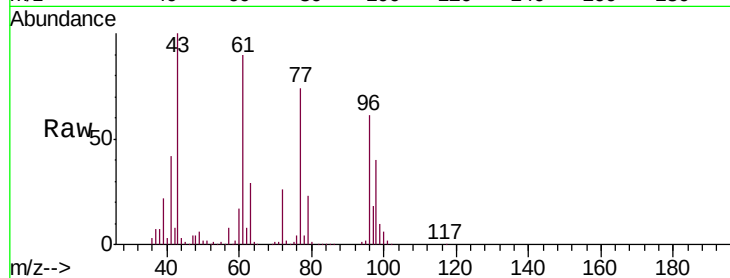
61 148.9 0.0 291.4

98 64.8 0.0 128.4

Manual Integrations
APPROVED

MMDadoda

9/24/2018 2:15:20 PM



Abundance Ion 95.90 (95.60 to 96.60): VN051393.D (-1550) (-)

Ion 60.90 (60.60 to 61.60): VN051393.D (-1550) (-)

Ion 97.90 (97.60 to 98.60): VN051393.D (-1550) (-)

600000

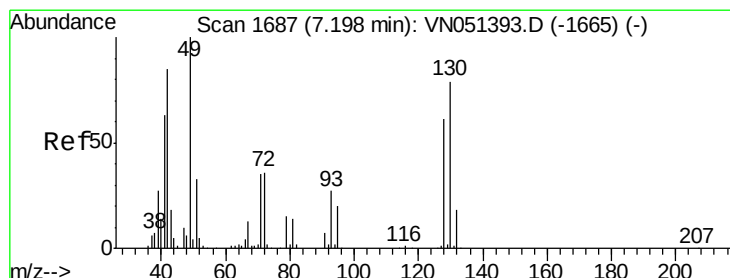
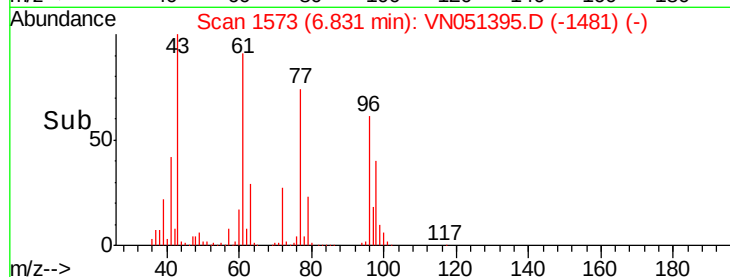
400000

200000

0

6.70 6.80 6.90 7.00

Time-->



#28

Bromochloromethane

Concen: 148.485 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

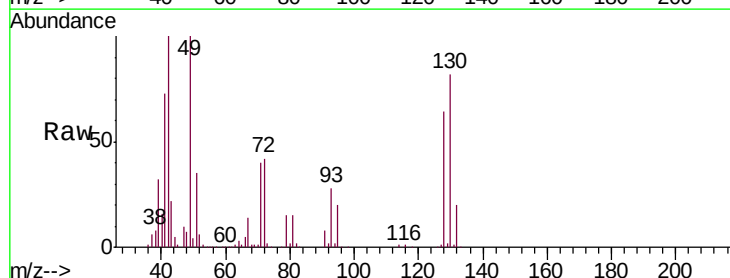
Tgt Ion: 49 Resp: 827007

Ion Ratio Lower Upper

49 100

129 2.0 0.0 3.8

130 81.2 63.0 94.4



Abundance Ion 48.90 (48.60 to 49.60): VN051393.D (-1665) (-)

Ion 128.80 (128.50 to 129.50): VN051393.D (-1665) (-)

Ion 129.80 (129.50 to 130.50): VN051393.D (-1665) (-)

400000

300000

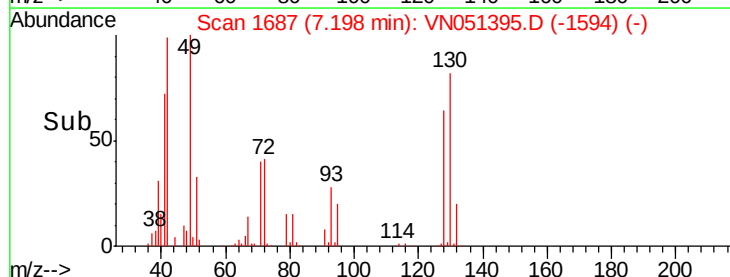
200000

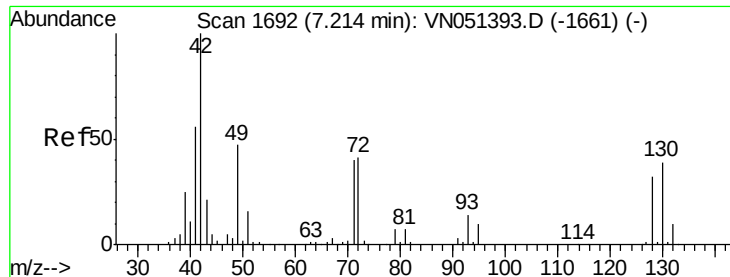
100000

0

7.10 7.20 7.30

Time-->





#29

Tetrahydrofuran

Concen: 796.158 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 1211860

Ion Ratio Lower Upper

42 100

72 42.3 34.3 51.5

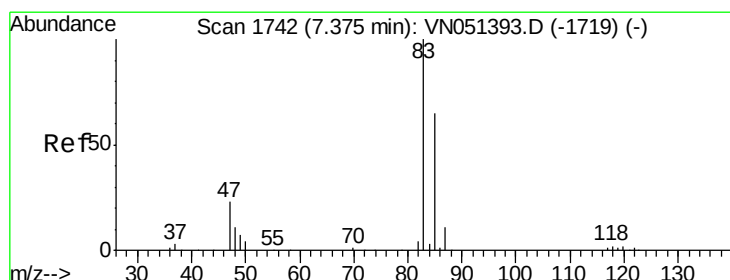
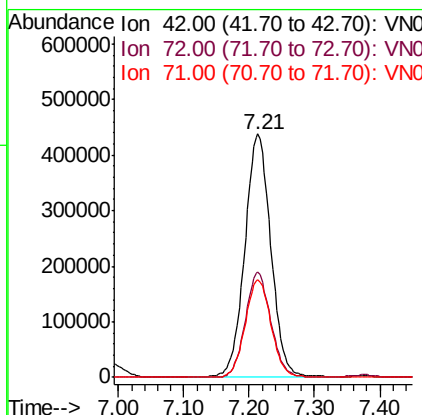
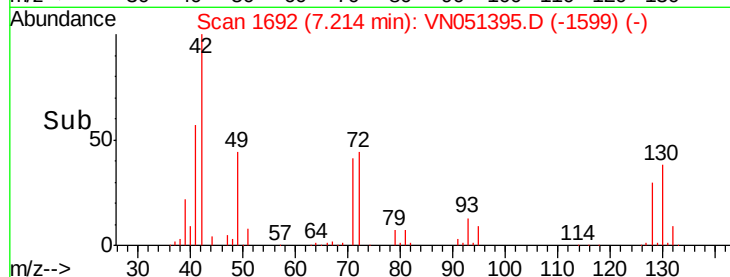
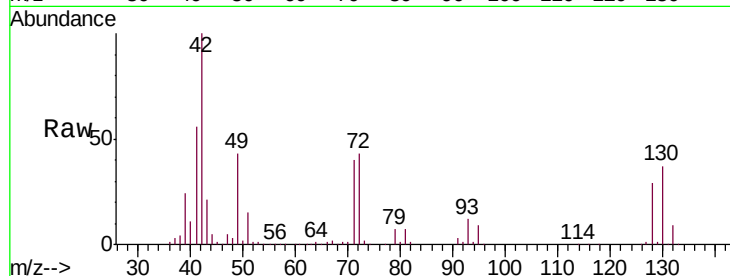
71 40.1 32.2 48.4

Manual Integrations

APPROVED

MMDadoda

9/24/2018 2:15:20 PM



#30

Chloroform

Concen: 146.735 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN051395.D

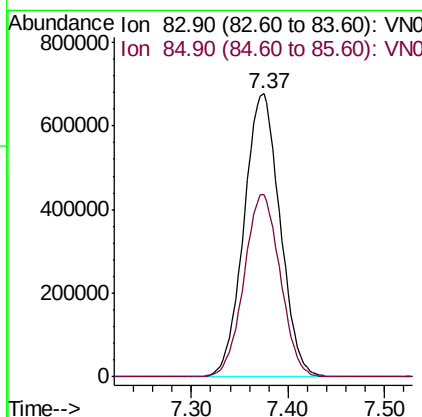
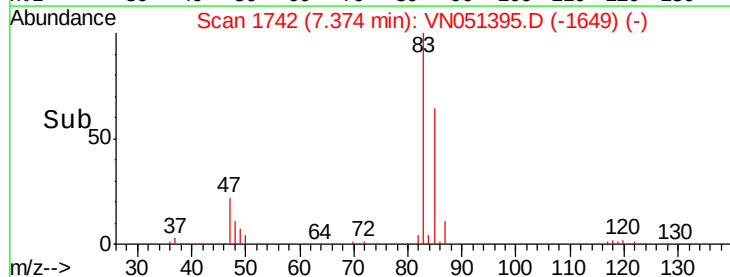
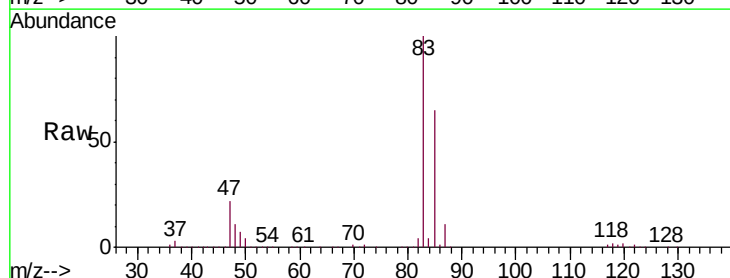
Acq: 22 Sep 2018 13:56

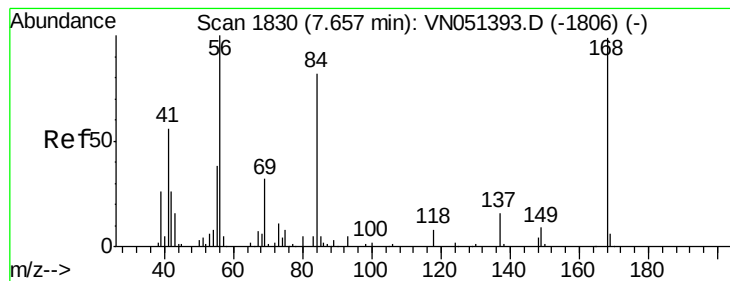
Tgt Ion: 83 Resp: 1753595

Ion Ratio Lower Upper

83 100

85 64.5 51.8 77.6





#31

Cyclohexane

Concen: 147.422 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 1629025

Ion Ratio Lower Upper

56 100

69 30.5 25.8 38.6

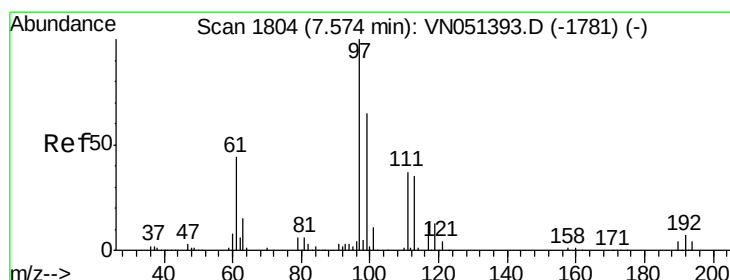
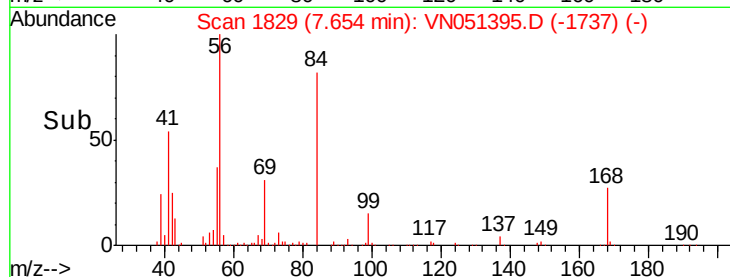
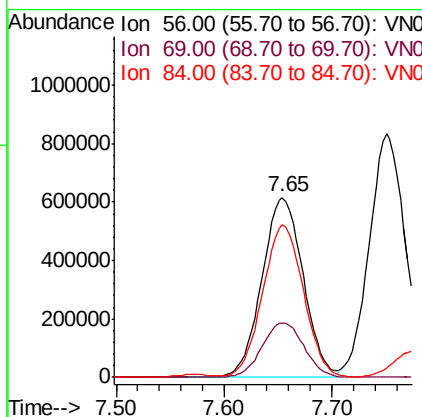
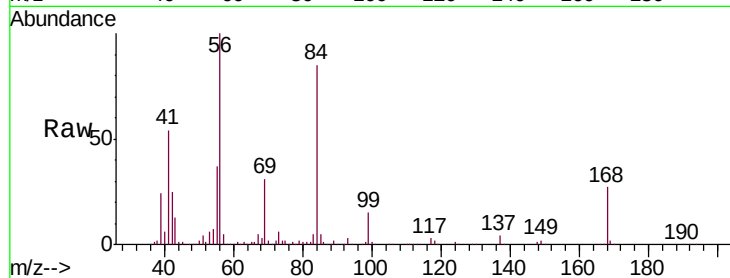
84 83.5 66.0 99.0

Manual Integrations

APPROVED

MMDadoda

9/24/2018 2:15:20 PM



#32

1,1,1-Trichloroethane

Concen: 150.115 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

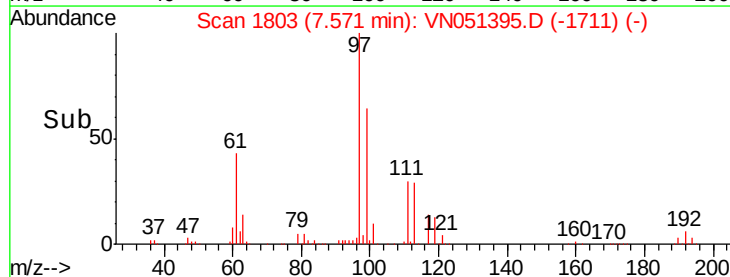
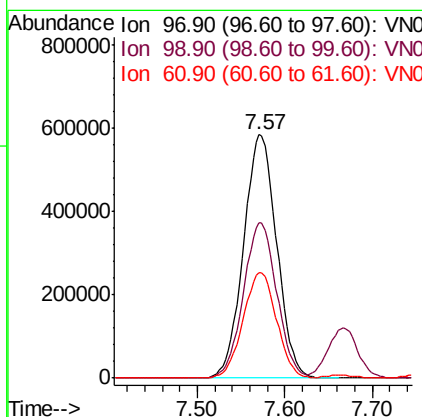
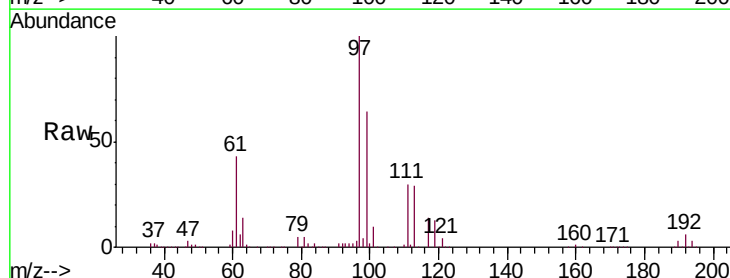
Tgt Ion: 97 Resp: 1533677

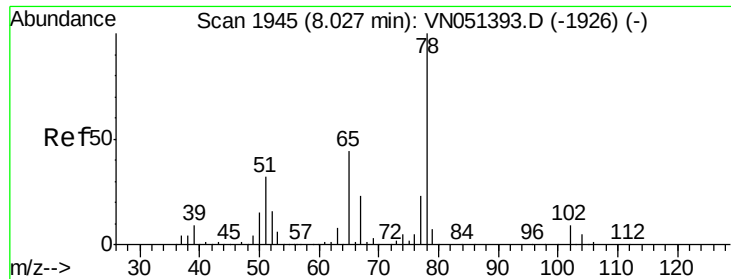
Ion Ratio Lower Upper

97 100

99 64.2 51.4 77.0

61 43.9 35.8 53.8





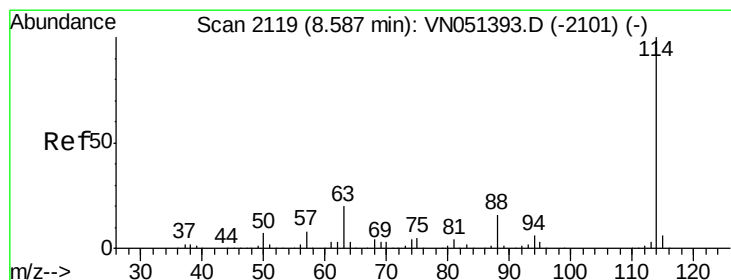
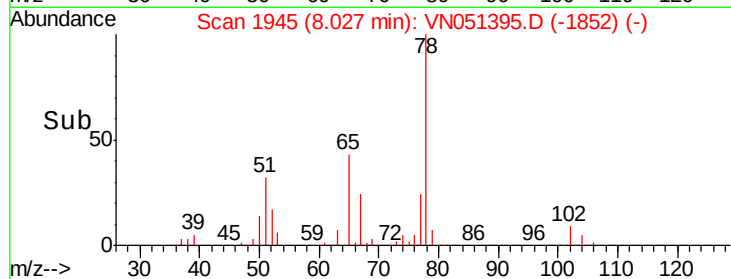
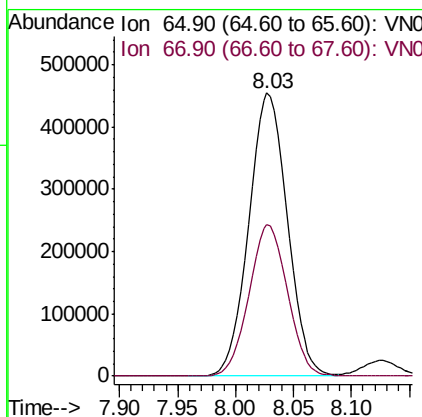
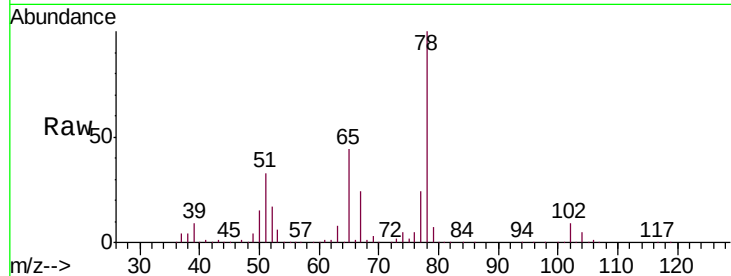
#33
 1,2-Dichloroethane-d4
 Concen: 149.887 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 65 Resp: 1051842
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 107.8

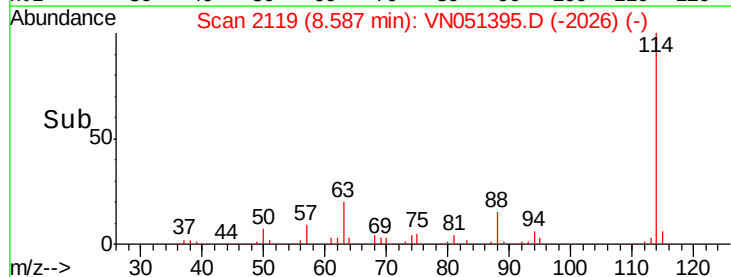
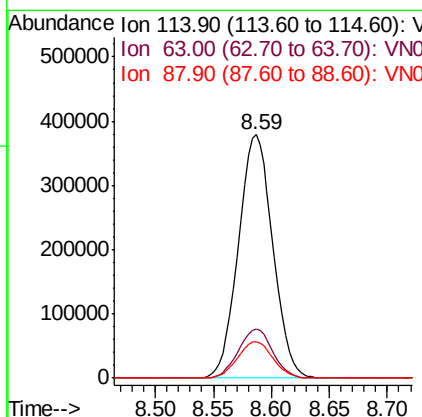
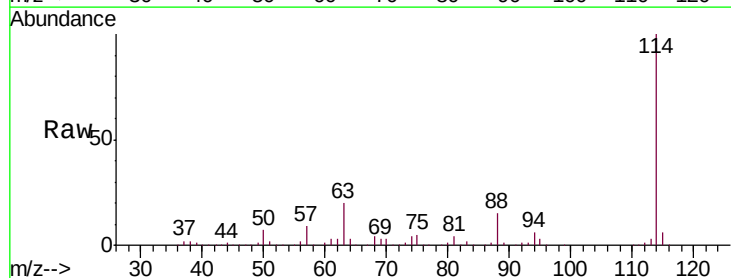
Manual Integrations
 APPROVED

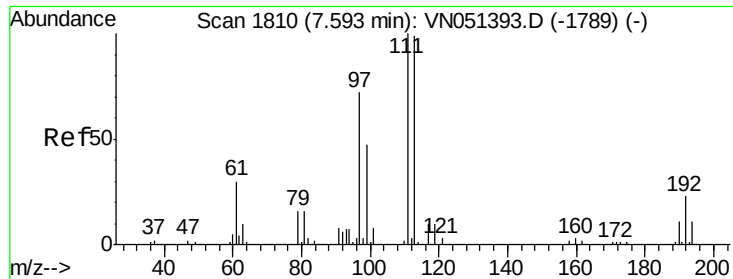
MMDadoda
 9/24/2018 2:15:20 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Tgt Ion: 114 Resp: 781436
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.2
 88 14.9 0.0 31.4





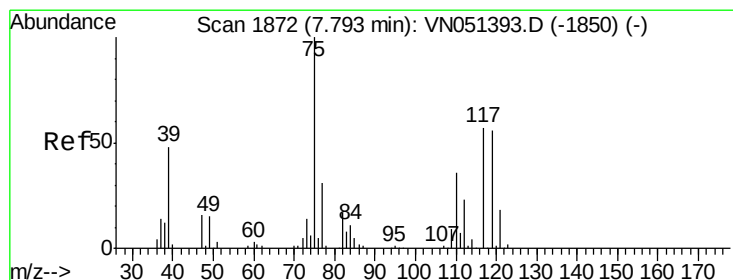
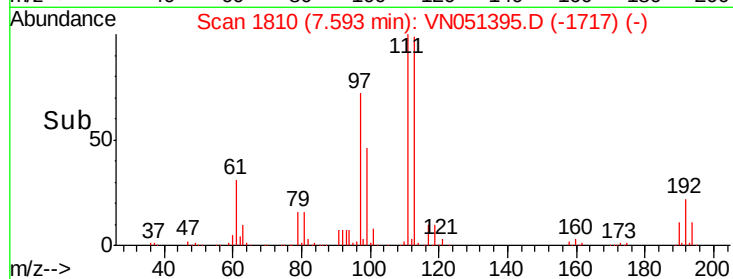
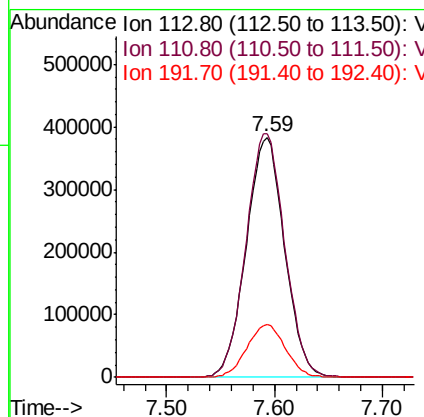
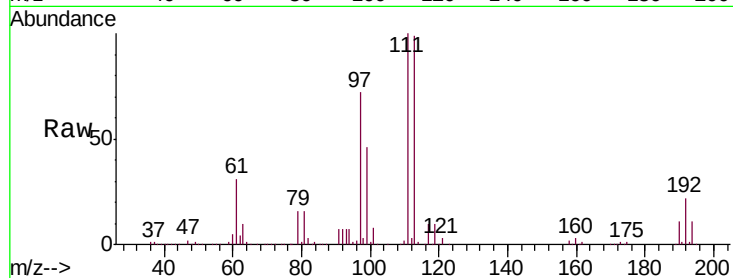
#35
 Dibromofluoromethane
 Concen: 151.502 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	946702		
111	102.6	82.6	123.8	
192	22.3	18.0	27.0	

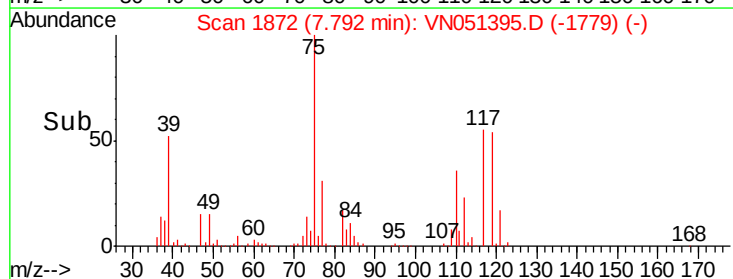
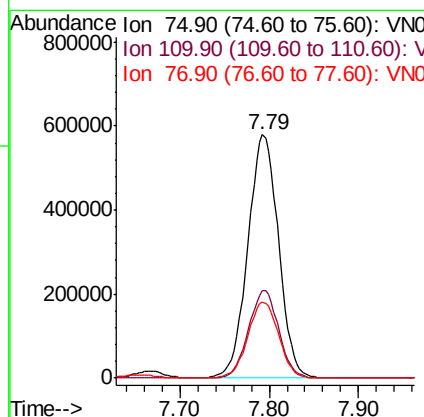
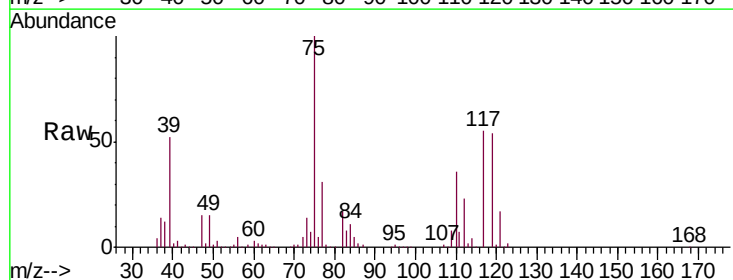
Manual Integrations
 APPROVED

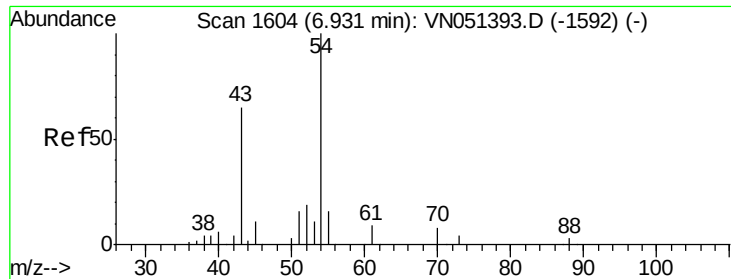
MMDadoda
 9/24/2018 2:15:20 PM



#36
 1,1-Dichloropropene
 Concen: 152.499 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1379986		
110	35.6	18.1	54.3	
77	31.7	25.6	38.4	





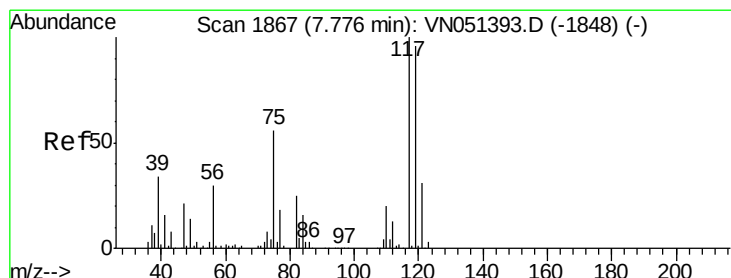
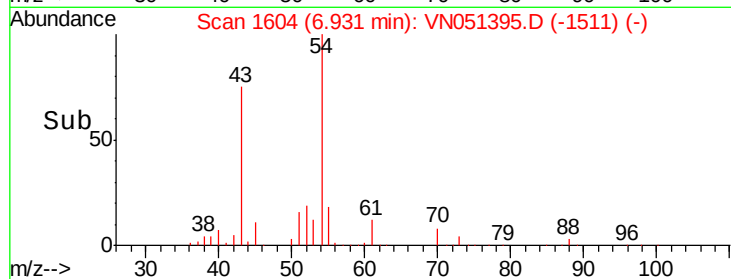
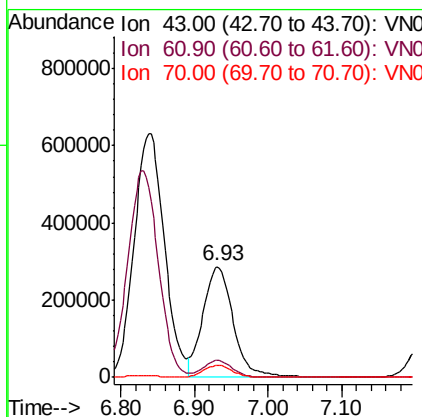
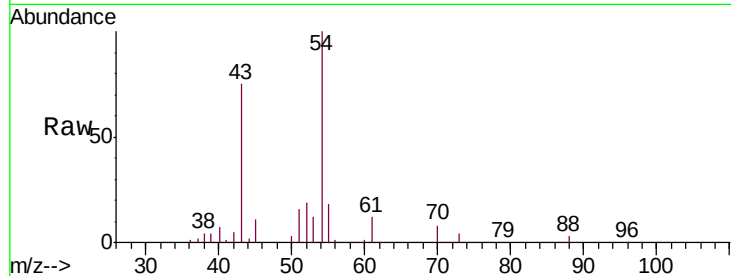
#37
Ethyl Acetate
 Concen: 155.719 ug/l
 RT: 6.93 min Scan# 1604
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.5	17.3
70	10.5	7.9	11.9

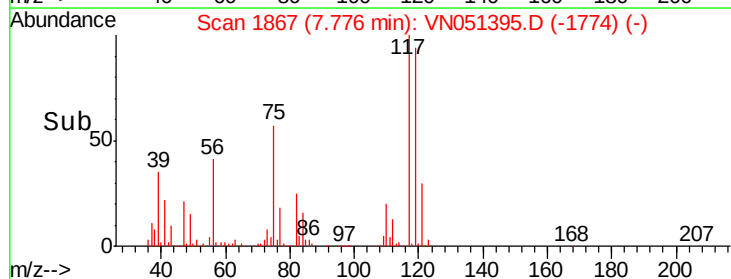
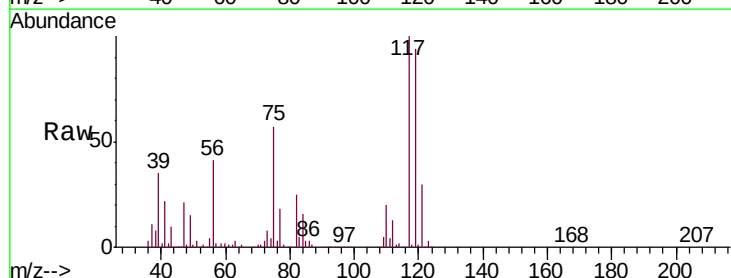
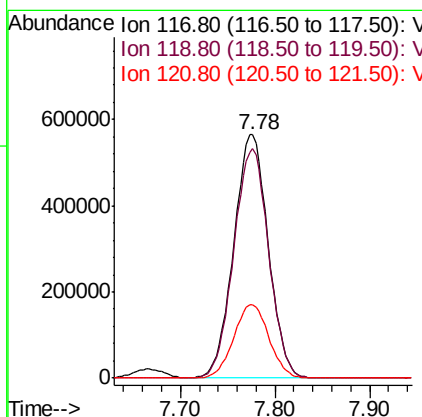
Manual Integrations
APPROVED

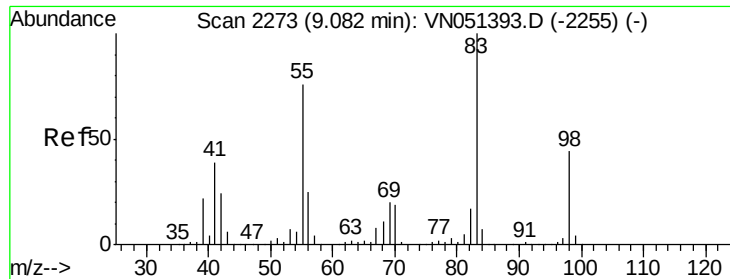
MMDadoda
 9/24/2018 2:15:20 PM



#38
Carbon Tetrachloride
 Concen: 151.152 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.1	76.9	115.3
121	30.0	24.6	37.0





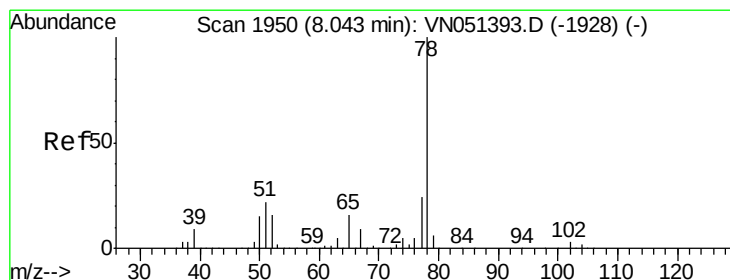
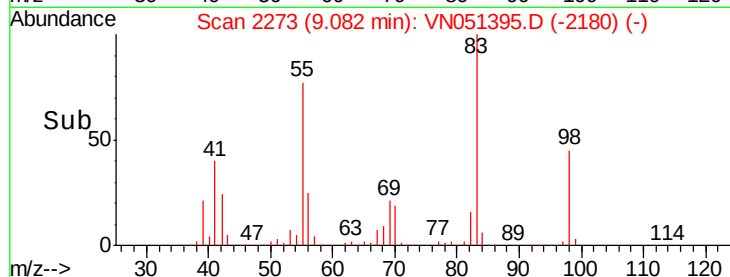
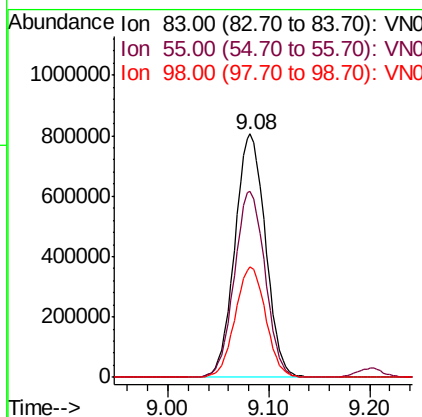
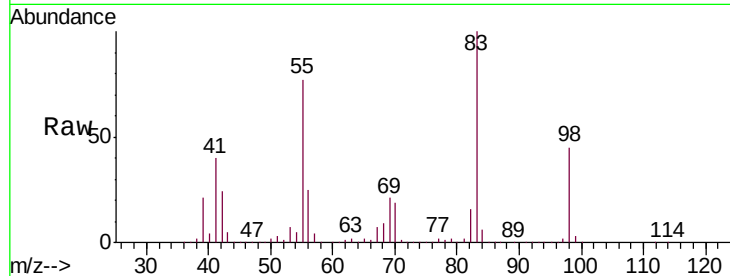
#39
Methylcyclohexane
Concen: 160.219 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tgt Ion: 83 Resp: 1694875
Ion Ratio Lower Upper
83 100
55 76.6 61.0 91.4
98 45.3 35.6 53.4

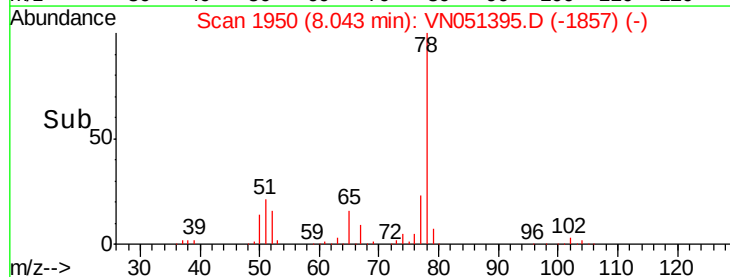
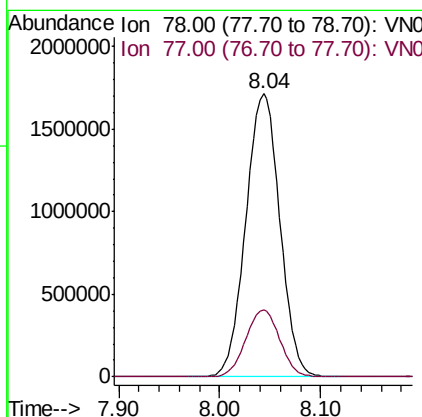
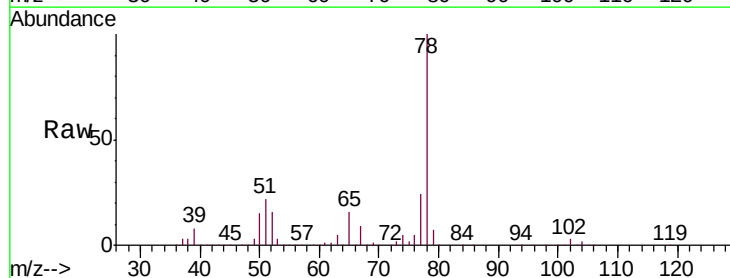
Manual Integrations
APPROVED

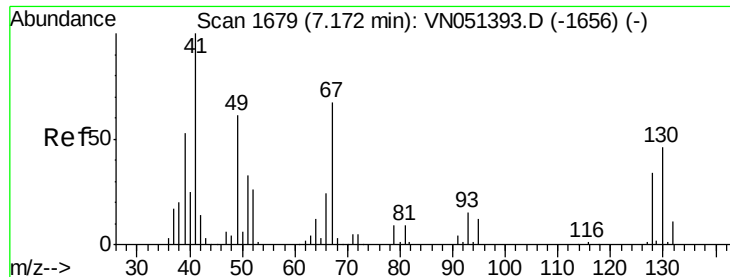
MMDadoda
9/24/2018 2:15:20 PM



#40
Benzene
Concen: 150.899 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion: 78 Resp: 4009428
Ion Ratio Lower Upper
78 100
77 23.5 19.2 28.8





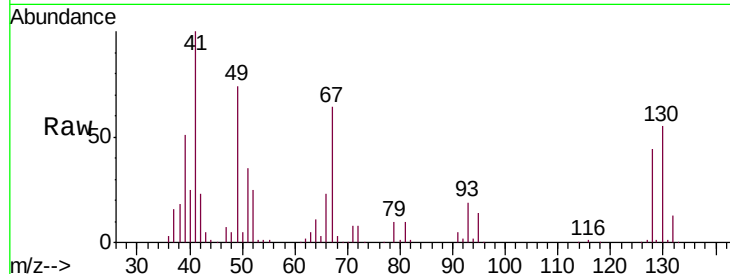
#41
Methacrylonitrile
Concen: 158.633 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

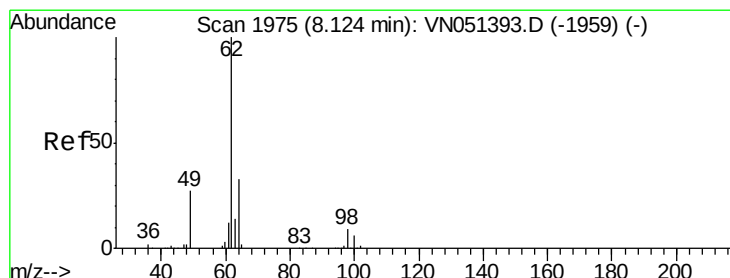
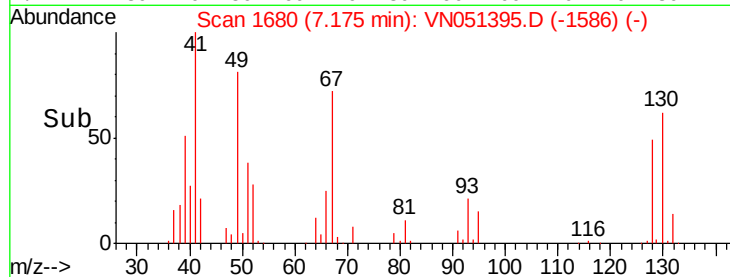
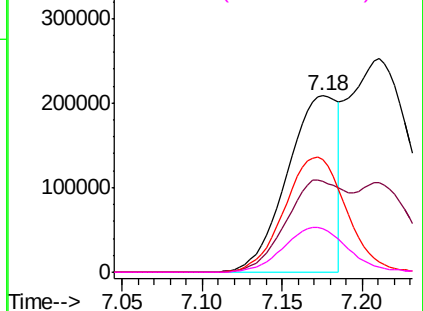
Tgt Ion:	41	Resp:	456623
Ion	Ratio	Lower	Upper
41	100		
39	64.2	51.4	77.2
67	80.9	66.8	100.2
52	31.9	27.7	41.5

Manual Integrations
APPROVED

MMDadoda
9/24/2018 2:15:20 PM

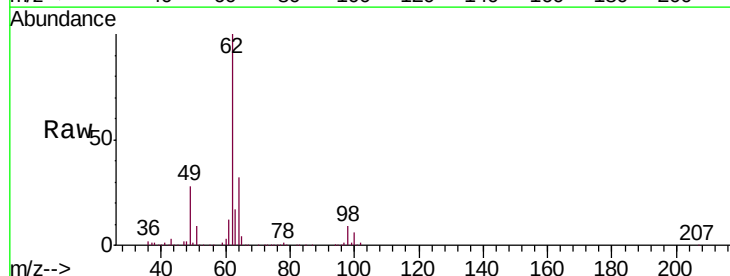


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

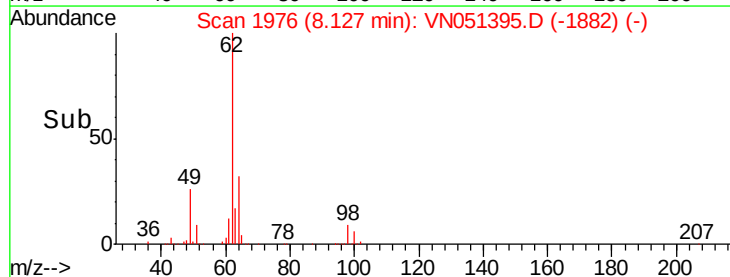
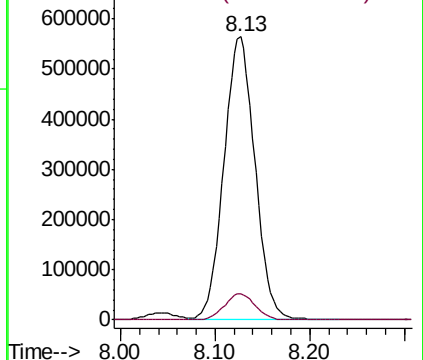


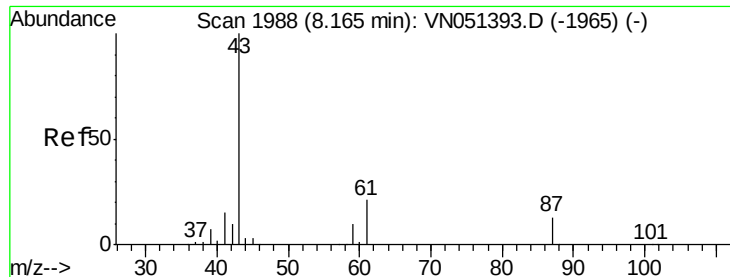
#42
1,2-Dichloroethane
Concen: 150.584 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion:	62	Resp:	1281149
Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.6



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 97.90 (97.60 to 98.60): VNO





#43

Isopropyl Acetate

Concen: 160.116 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 1506425

Ion Ratio Lower Upper

43 100

61 20.6 16.8 25.2

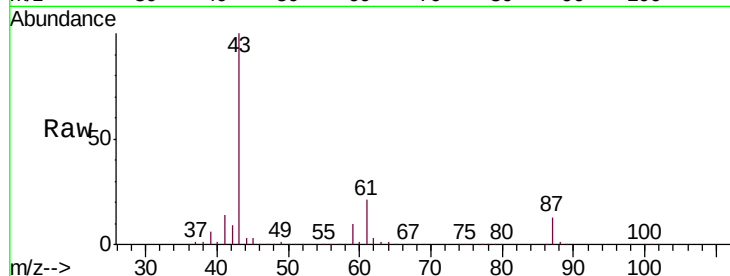
87 13.3 10.7 16.1

Manual Integrations

APPROVED

MMDadoda

9/24/2018 2:15:20 PM



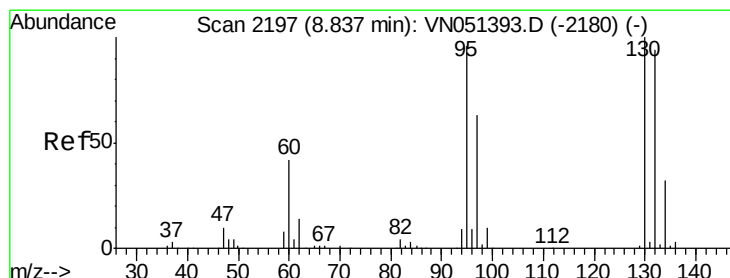
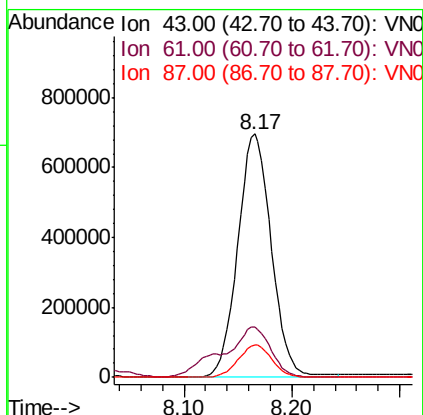
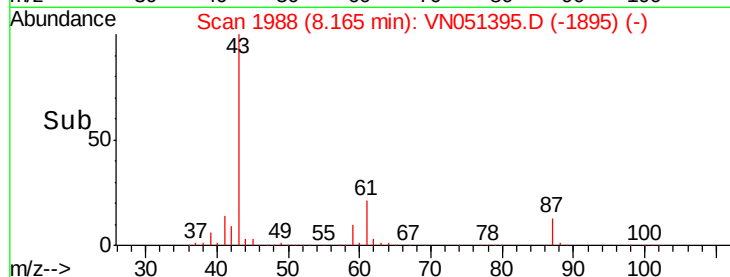
Abundance Ion 43.00 (42.70 to 43.70): VN051395.D (-1965) (-)

Ion 61.00 (60.70 to 61.70): VN051395.D (-1965) (-)

Ion 87.00 (86.70 to 87.70): VN051395.D (-1965) (-)

8.17

8.10 8.20



#44

Trichloroethene

Concen: 151.245 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VN051395.D

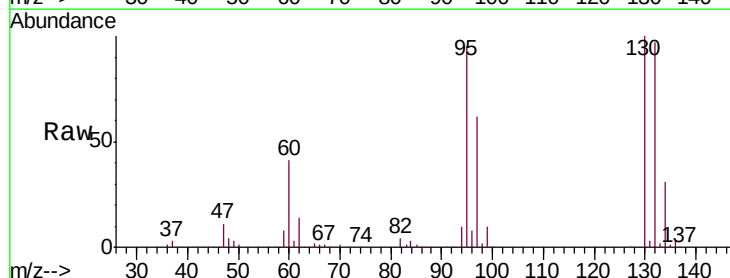
Acq: 22 Sep 2018 13:56

Tgt Ion: 130 Resp: 1067389

Ion Ratio Lower Upper

130 100

95 95.4 0.0 192.2

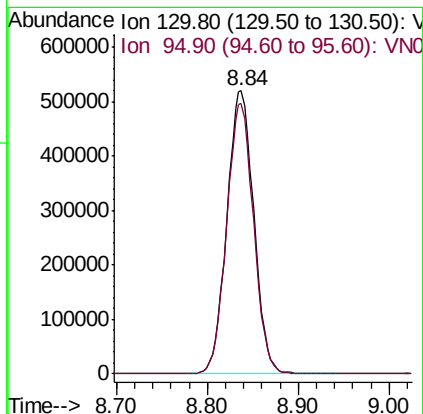
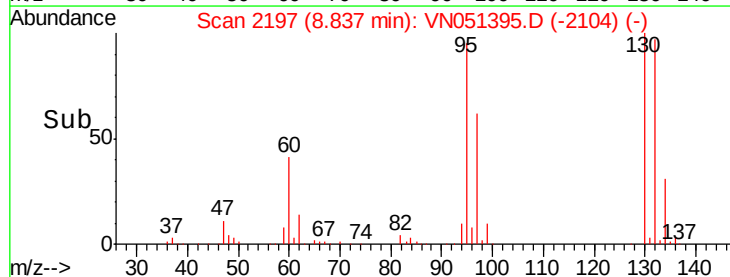


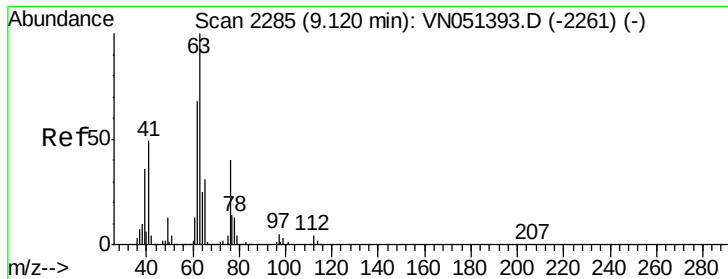
Abundance Ion 129.80 (129.50 to 130.50): VN051395.D (-2104) (-)

Ion 94.90 (94.60 to 95.60): VN051395.D (-2104) (-)

8.84

8.70 8.90 9.00





#45

1,2-Dichloropropane

Concen: 151.009 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 1090687

Ion Ratio Lower Upper

63 100

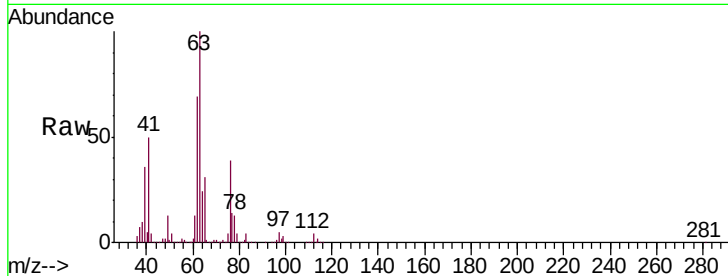
65 30.8 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

9/24/2018 2:15:20 PM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.12

600000

500000

400000

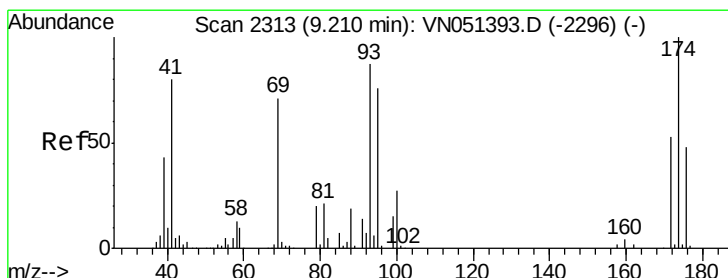
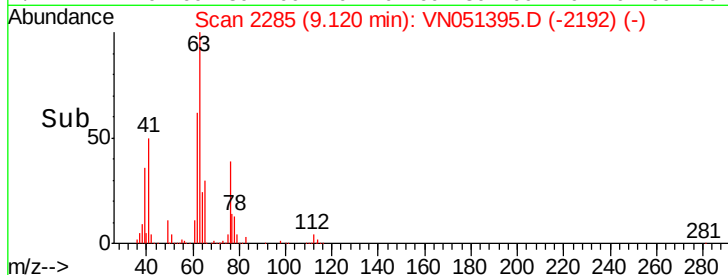
300000

200000

100000

0

Time-->



#46

Dibromomethane

Concen: 154.107 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

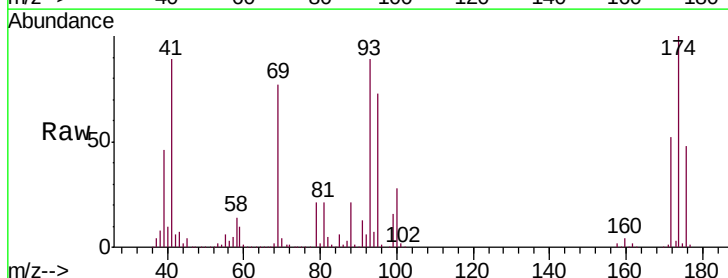
Tgt Ion: 93 Resp: 628904

Ion Ratio Lower Upper

93 100

95 82.4 67.6 101.4

174 110.7 89.6 134.4



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

400000

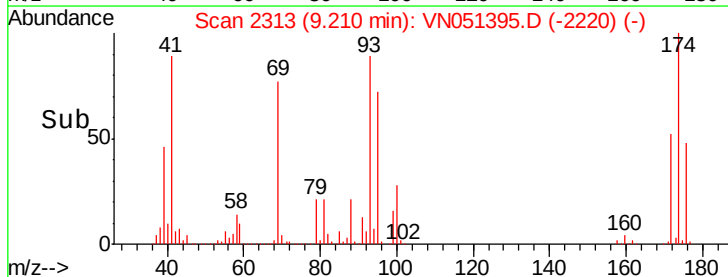
300000

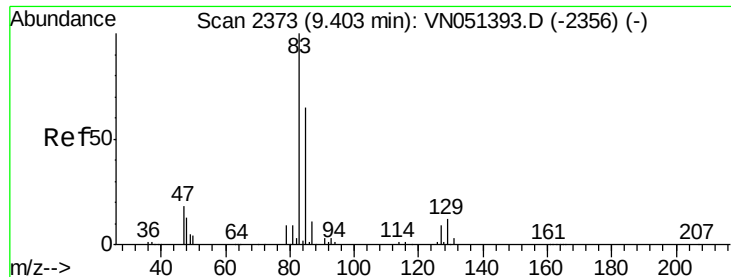
200000

100000

0

Time-->





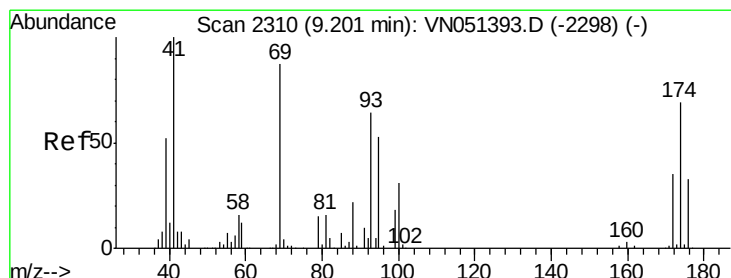
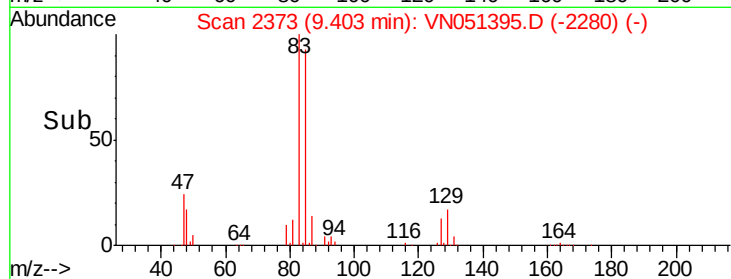
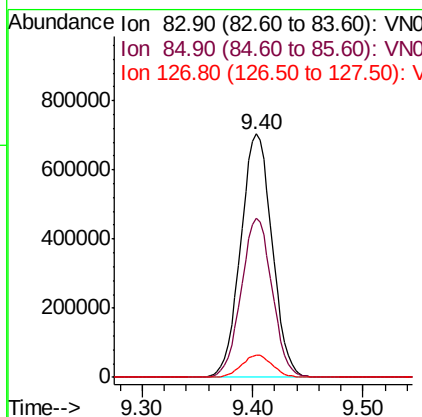
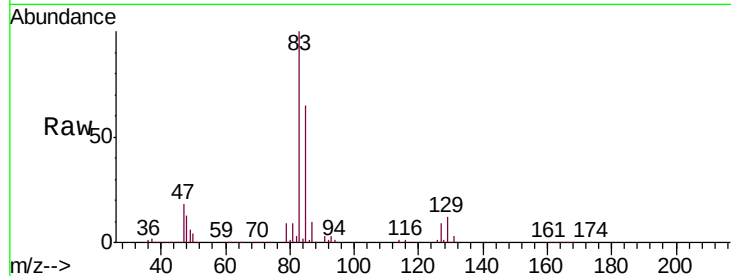
#47
 Bromodichloromethane
 Concen: 153.338 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 83 Resp: 1384806
 Ion Ratio Lower Upper
 83 100
 85 65.2 51.8 77.6
 127 9.1 7.4 11.2

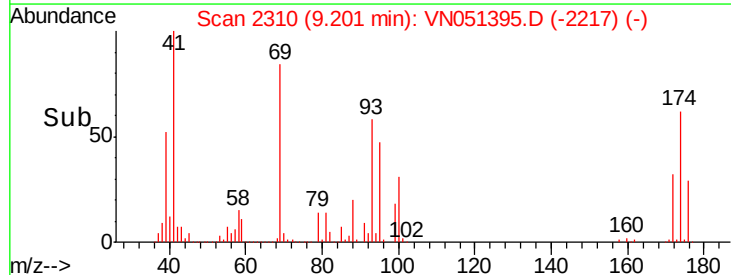
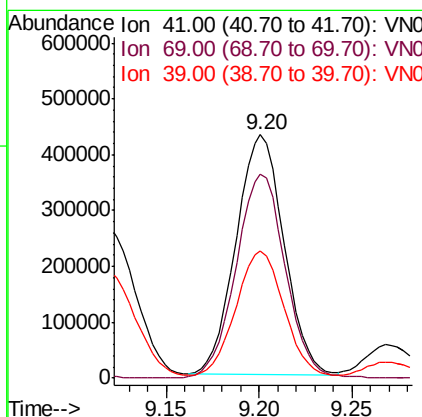
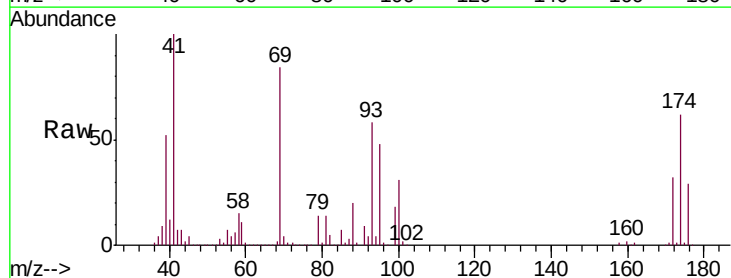
Manual Integrations
 APPROVED

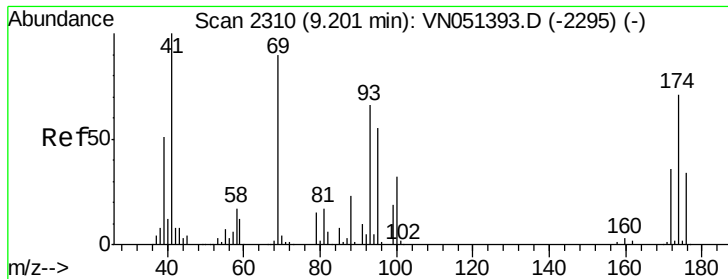
MMDadoda
 9/24/2018 2:15:20 PM



#48
 Methyl methacrylate
 Concen: 165.430 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Tgt Ion: 41 Resp: 775975
 Ion Ratio Lower Upper
 41 100
 69 87.0 70.4 105.6
 39 53.7 43.8 65.8





#49

1,4-Dioxane

Concen: 3161.476 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

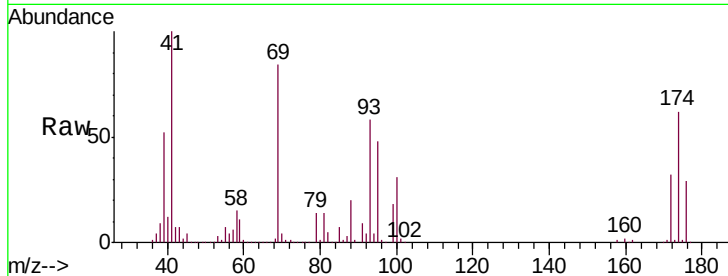
ClientSampled :

VSTDIC150

Tgt Ion:	88	Resp:	181743
Ion	Ratio	Lower	Upper
88	100		
43	34.5	25.9	38.9
58	72.5	57.0	85.4

Manual Integrations
APPROVED

MMDadoda
9/24/2018 2:15:20 PM

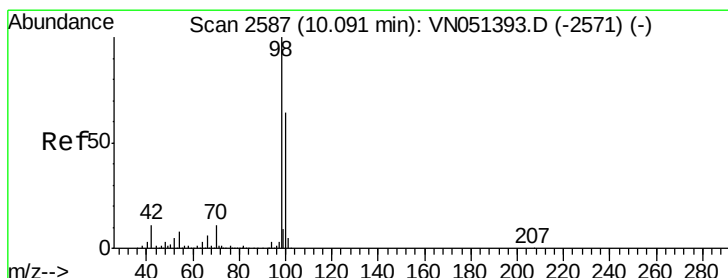
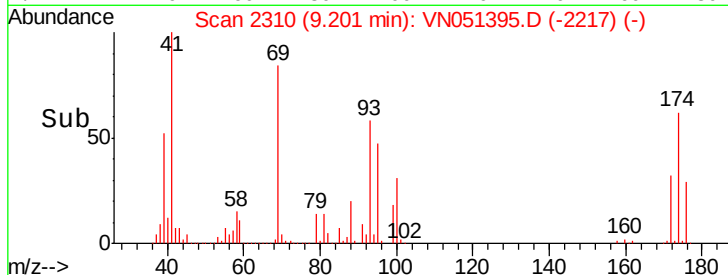
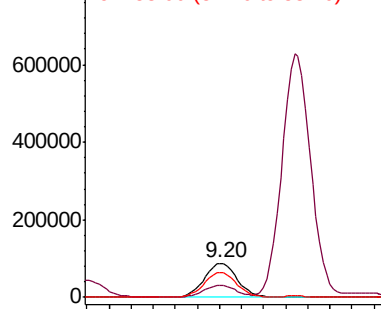


Abundance

Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 162.644 ug/l

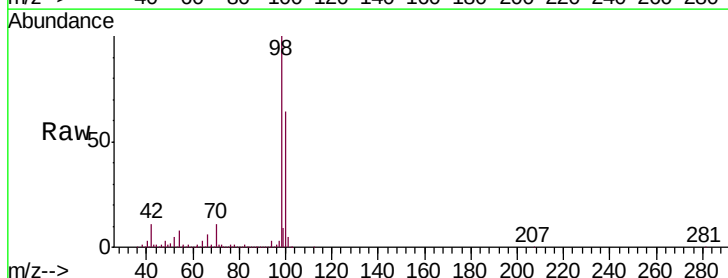
RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

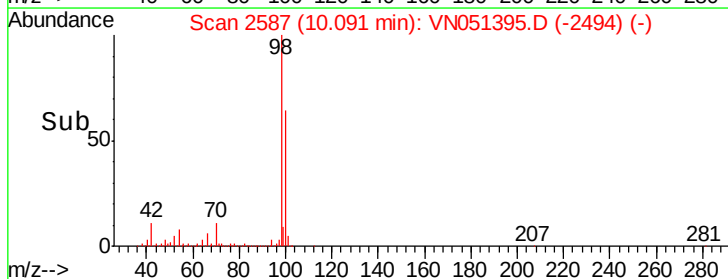
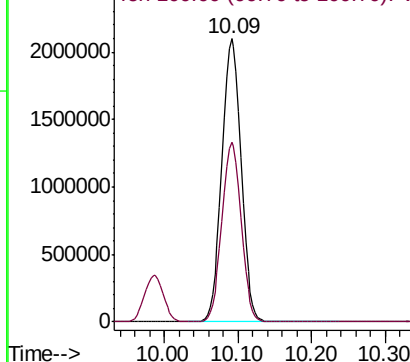
Tgt Ion:	98	Resp:	3827140
Ion	Ratio	Lower	Upper
98	100		
100	63.4	50.6	75.8

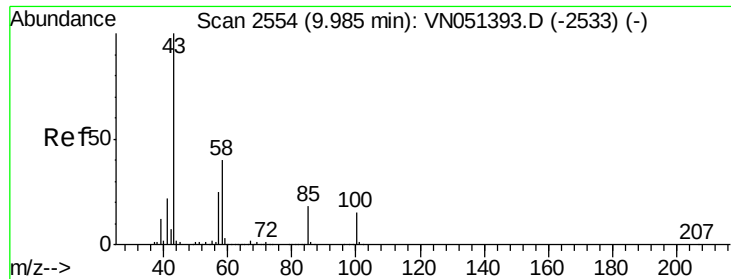


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 822.653 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 4256595

Ion Ratio Lower Upper

43 100

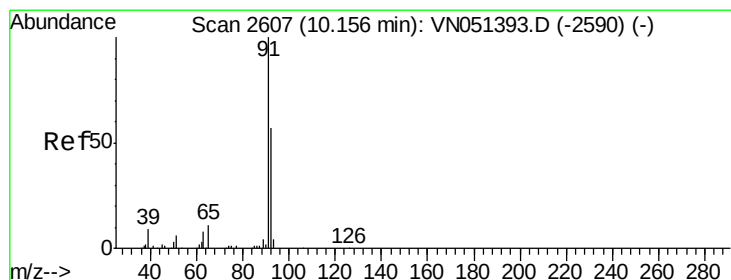
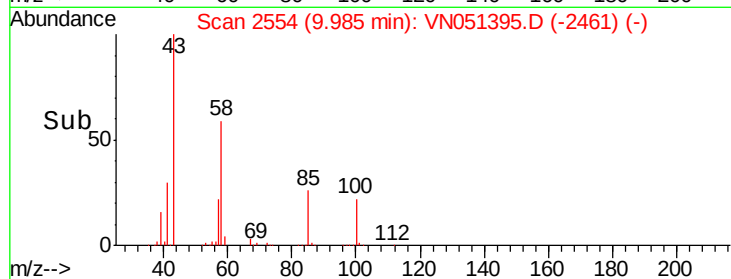
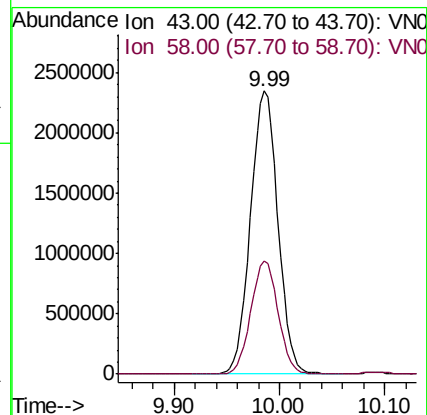
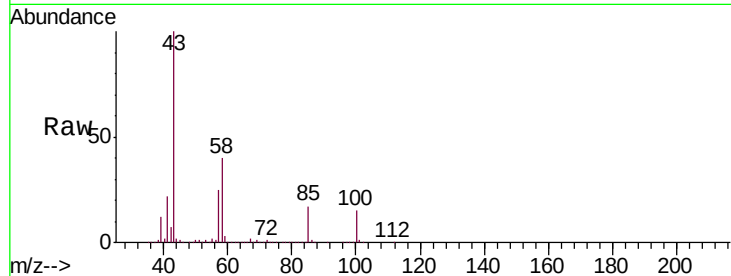
58 39.8 31.5 47.3

Manual Integrations

APPROVED

MMDadoda

9/24/2018 2:15:20 PM



#52

Toluene

Concen: 161.229 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051395.D

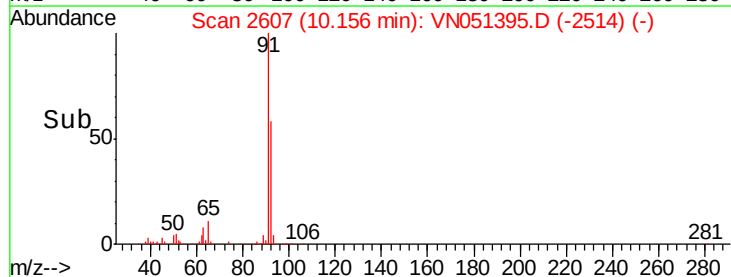
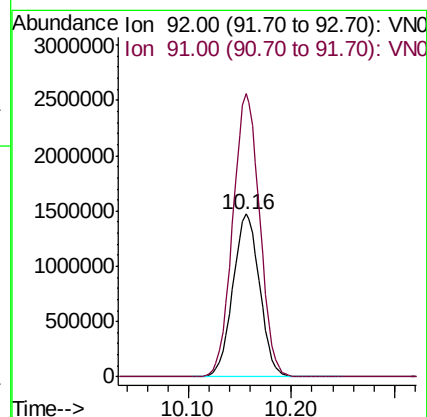
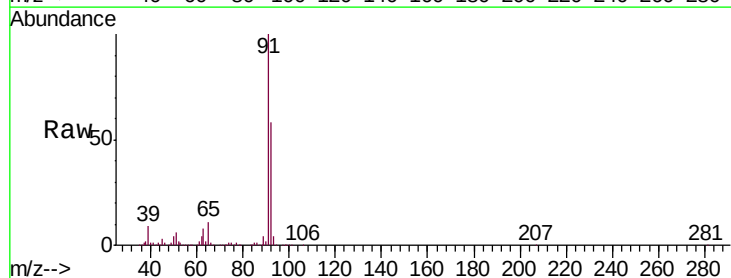
Acq: 22 Sep 2018 13:56

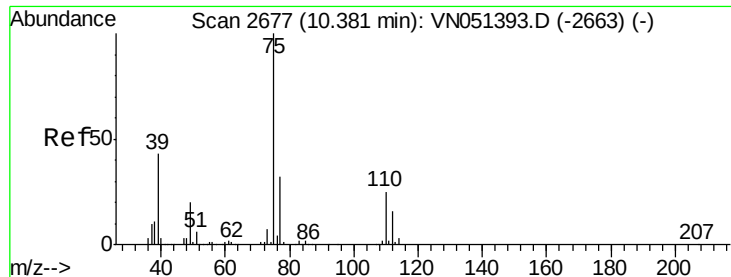
Tgt Ion: 92 Resp: 2662296

Ion Ratio Lower Upper

92 100

91 174.5 142.2 213.4





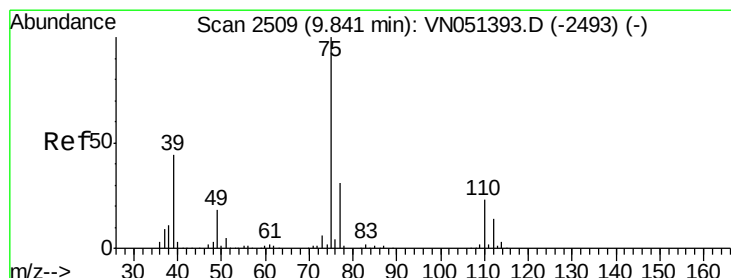
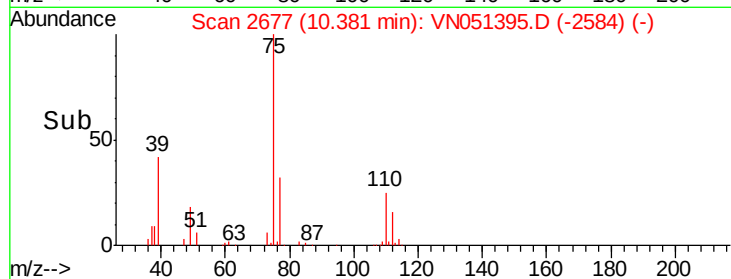
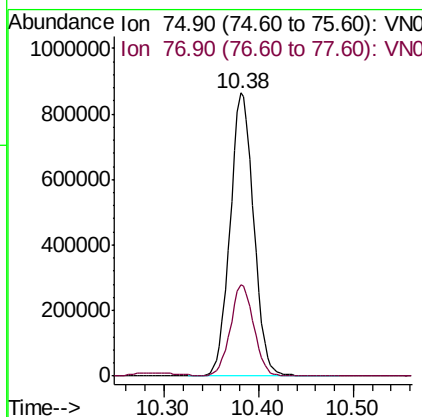
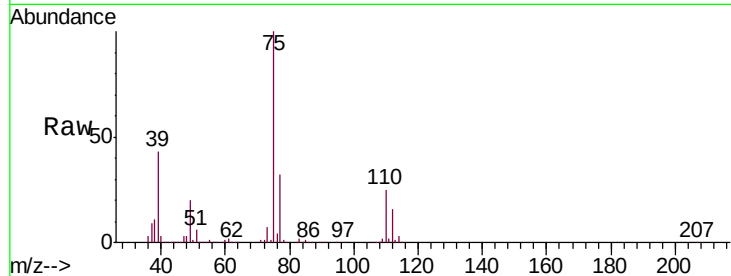
#53
t-1,3-Dichloropropene
Concen: 164.548 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tgt Ion: 75 Resp: 1500280
Ion Ratio Lower Upper
75 100
77 32.4 25.8 38.8

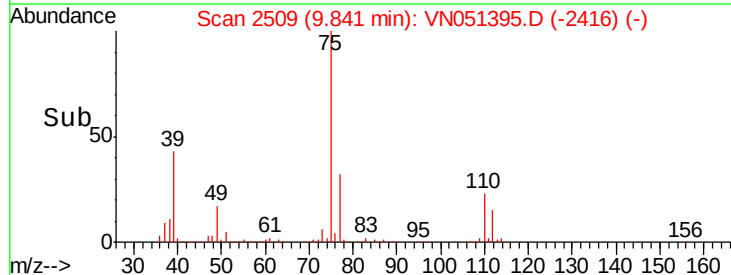
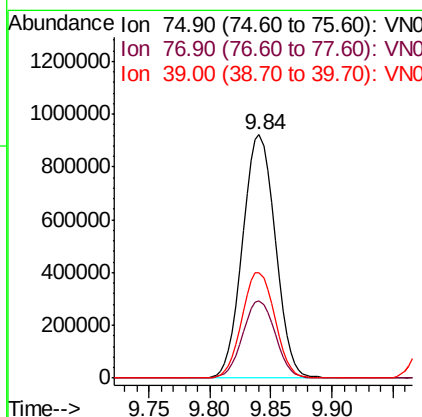
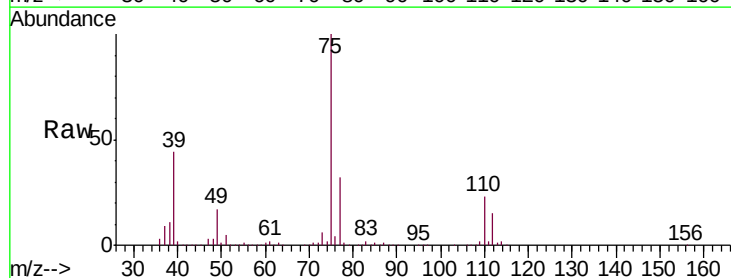
Manual Integrations
APPROVED

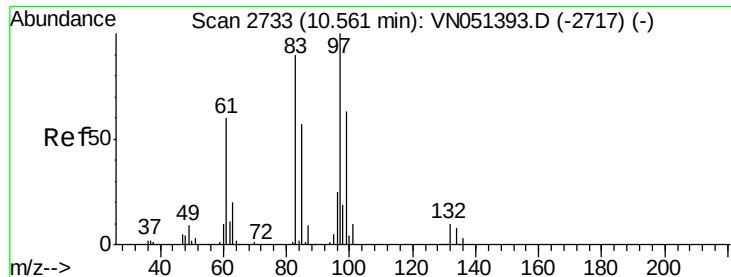
MMDadoda
9/24/2018 2:15:20 PM



#54
cis-1,3-Dichloropropene
Concen: 161.618 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion: 75 Resp: 1708865
Ion Ratio Lower Upper
75 100
77 31.9 25.2 37.8
39 43.5 35.4 53.2





#55

1,1,2-Trichloroethane

Concen: 152.914 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

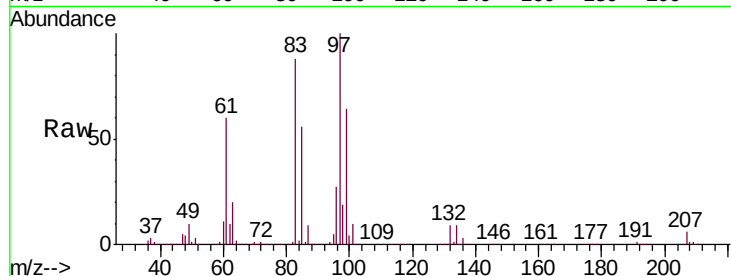
ClientSampleId :

VSTDIC150

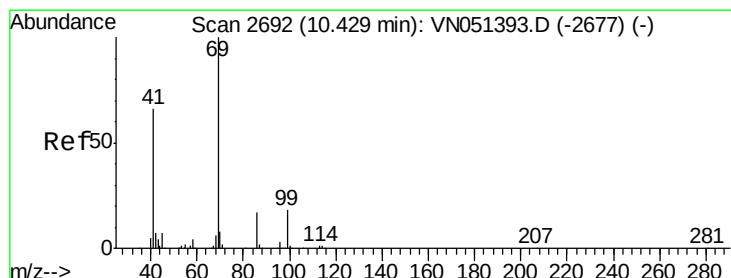
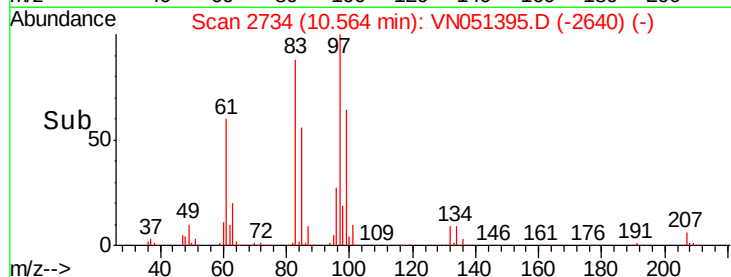
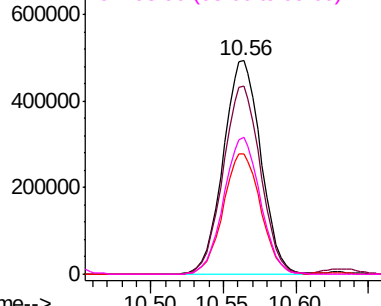
Tgt Ion:	97	Resp:	892365
Ion	Ratio	Lower	Upper
97	100		
83	87.8	72.0	108.0
85	56.5	45.2	67.8
99	64.1	50.7	76.1

Manual Integrations
APPROVED

MMDadoda
9/24/2018 2:15:20 PM



Abundance Ion 96.90 (96.60 to 97.60): VN051395.D (-2717) (-)



#56

Ethyl methacrylate

Concen: 170.418 ug/l

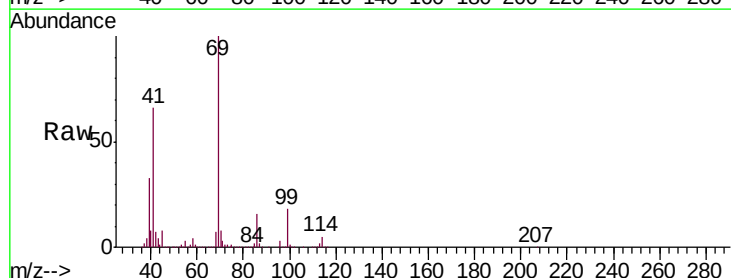
RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

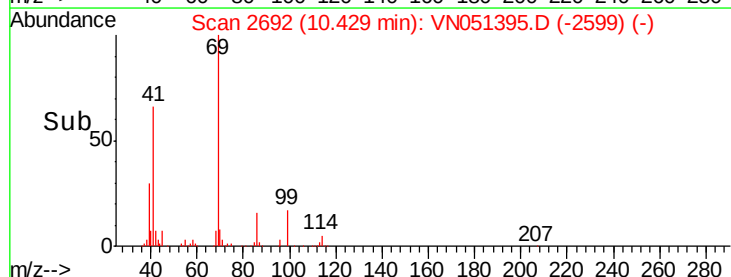
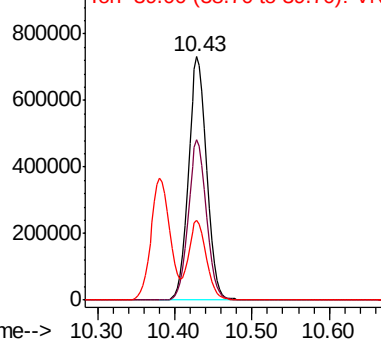
Lab File: VN051395.D

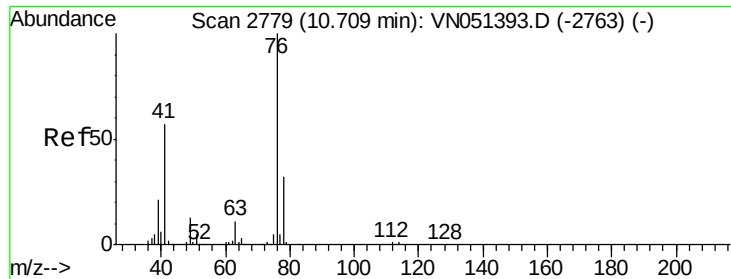
Acq: 22 Sep 2018 13:56

Tgt Ion:	69	Resp:	1215931
Ion	Ratio	Lower	Upper
69	100		
41	65.8	52.4	78.6
39	32.6	26.3	39.5



Abundance Ion 69.00 (68.70 to 69.70): VN051395.D (-2677) (-)





#57

1,3-Dichloropropane

Concen: 154.681 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 1547192

Ion Ratio Lower Upper

76 100

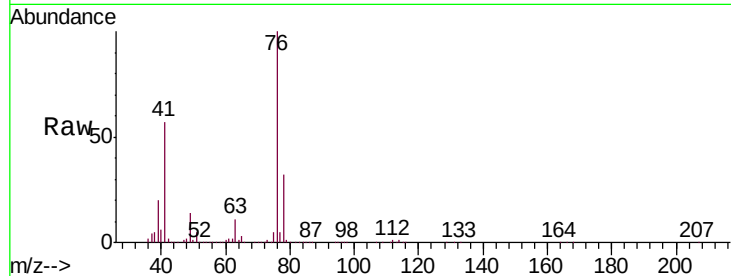
78 32.1 25.5 38.3

Manual Integrations

APPROVED

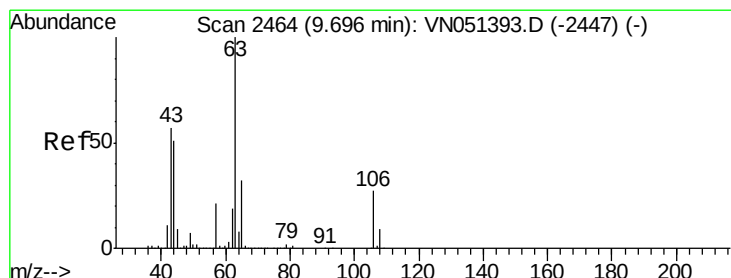
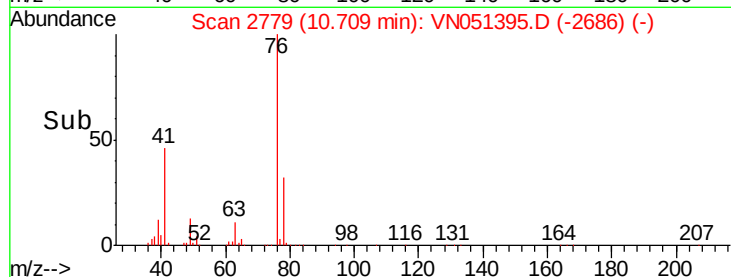
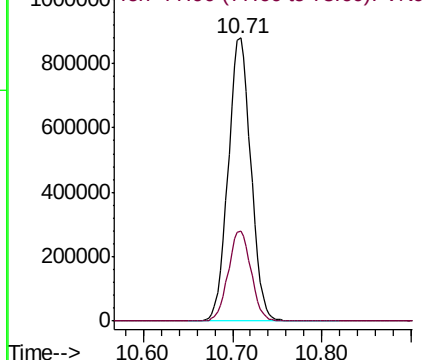
MMDadoda

9/24/2018 2:15:20 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 752.917 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN051395.D

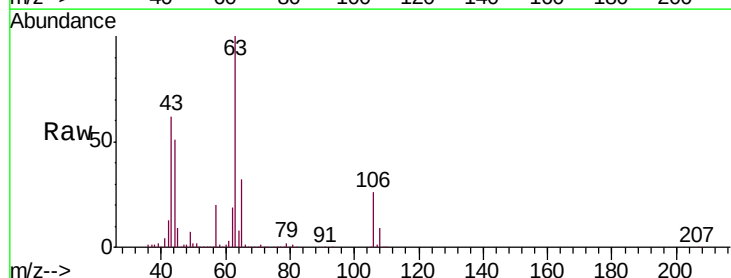
Acq: 22 Sep 2018 13:56

Tgt Ion: 63 Resp: 3079482

Ion Ratio Lower Upper

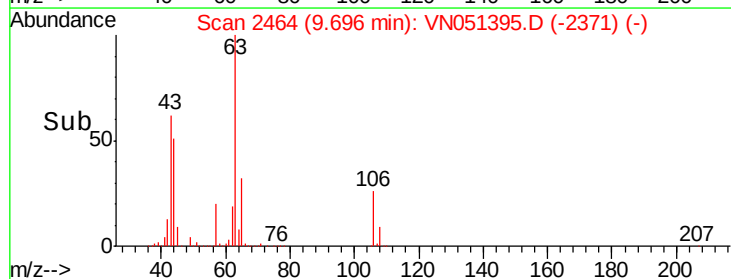
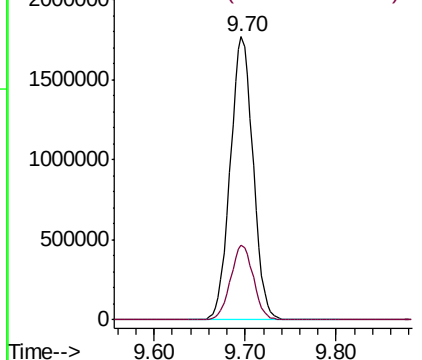
63 100

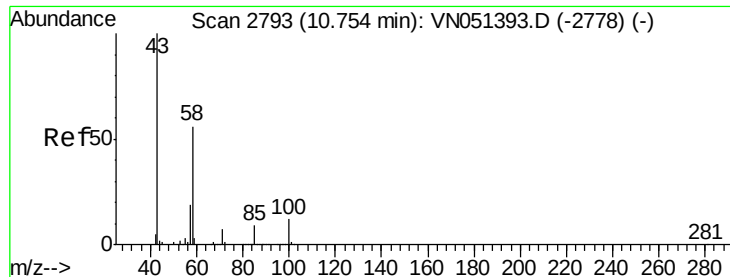
106 26.4 21.4 32.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





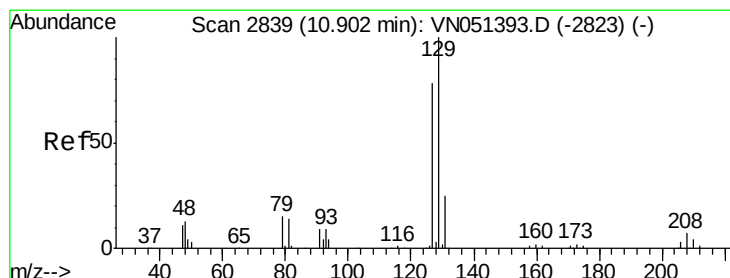
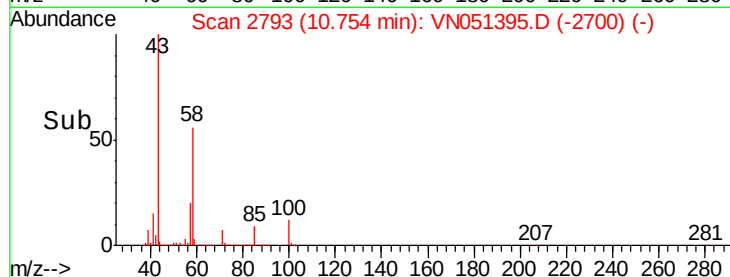
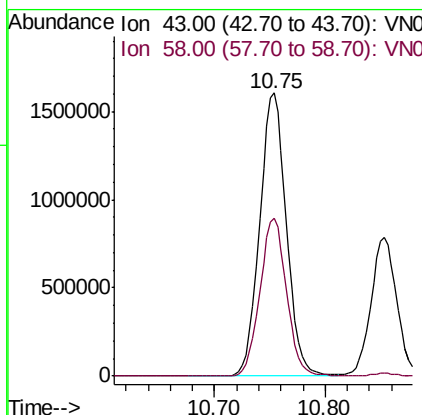
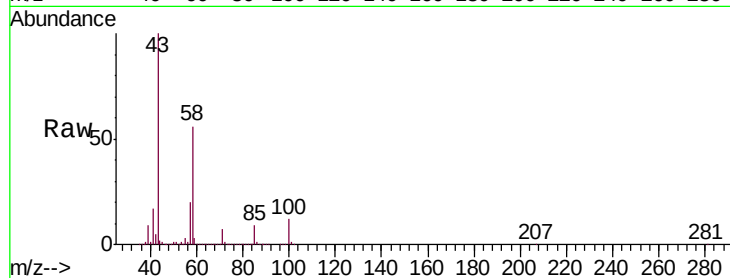
#59
2-Hexanone
Concen: 803.262 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 43 Resp: 2694351
Ion Ratio Lower Upper
43 100
58 55.9 27.7 83.0

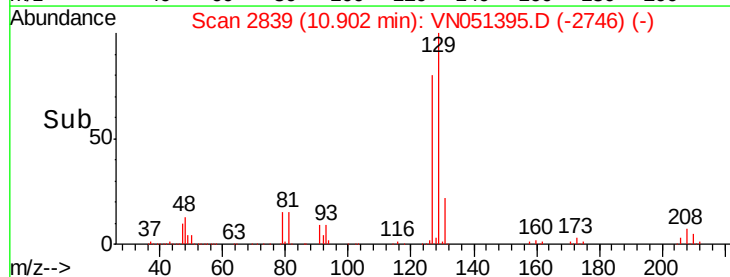
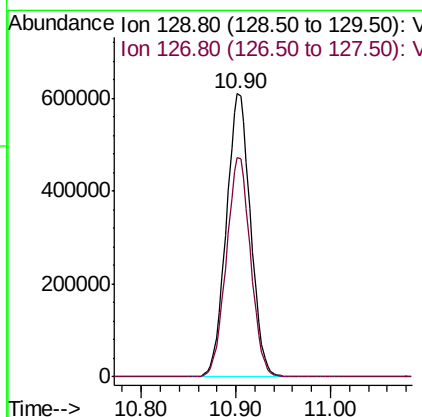
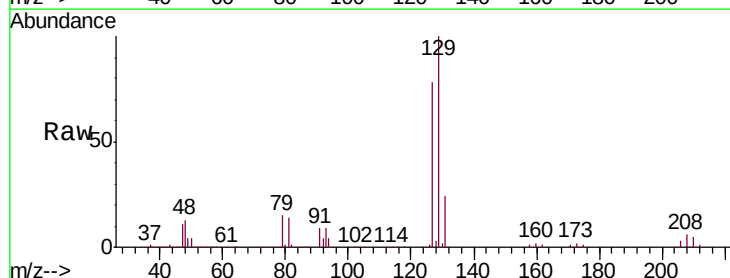
Manual Integrations
APPROVED

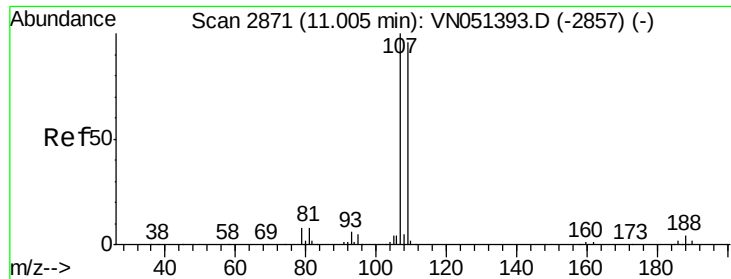
MMDadoda
9/24/2018 2:15:20 PM



#60
Dibromochloromethane
Concen: 157.751 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion: 129 Resp: 1086193
Ion Ratio Lower Upper
129 100
127 77.3 38.6 116.0





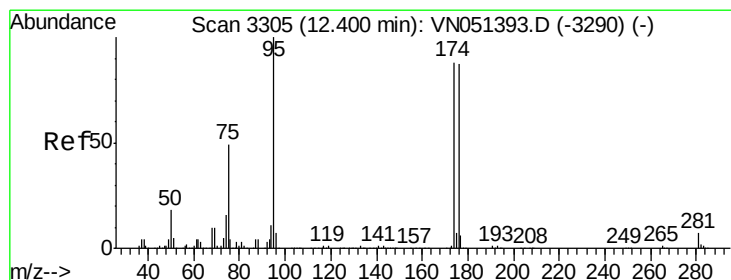
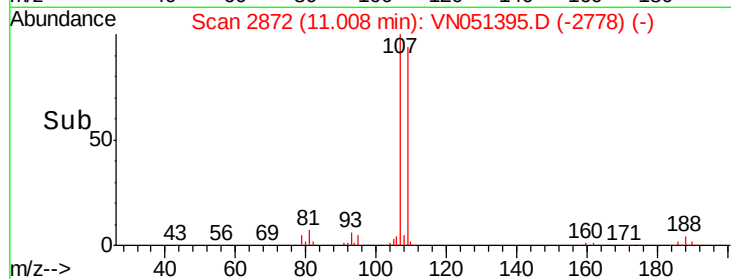
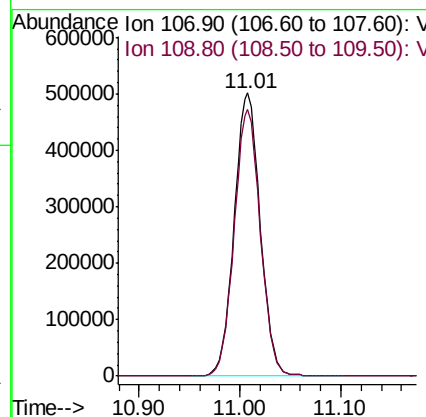
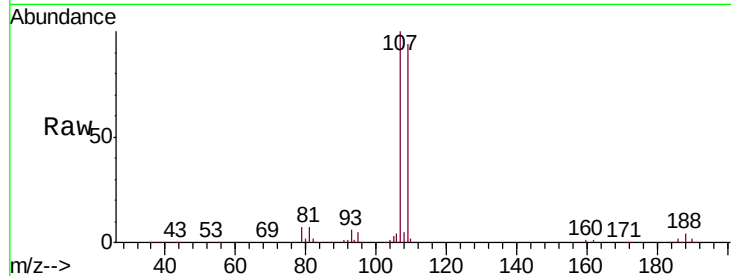
#61
1,2-Dibromoethane
Concen: 158.702 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	899065		
109	94.7	76.3	114.5	

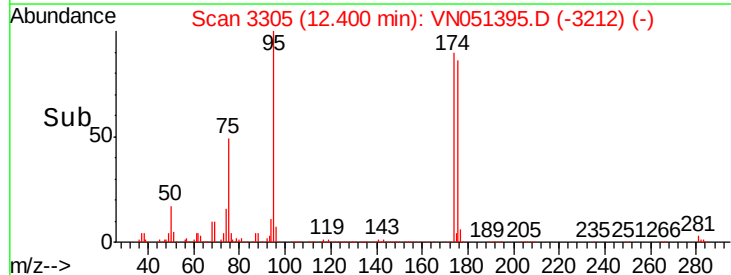
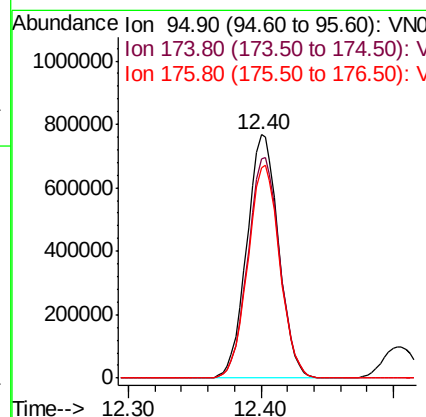
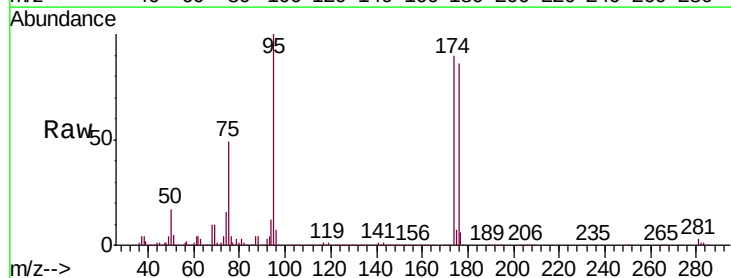
Manual Integrations
APPROVED

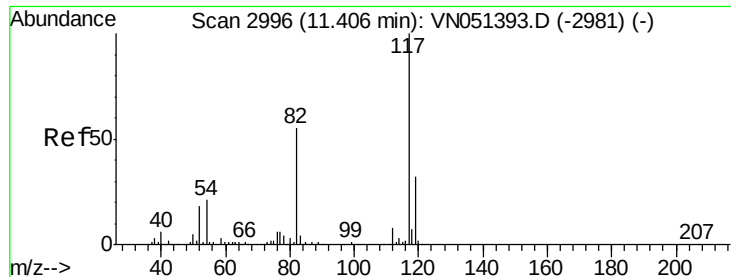
MMDadoda
9/24/2018 2:15:20 PM



#62
4-Bromofluorobenzene
Concen: 167.882 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	1277945		
174	90.8	0.0	181.6	
176	87.5	0.0	176.4	





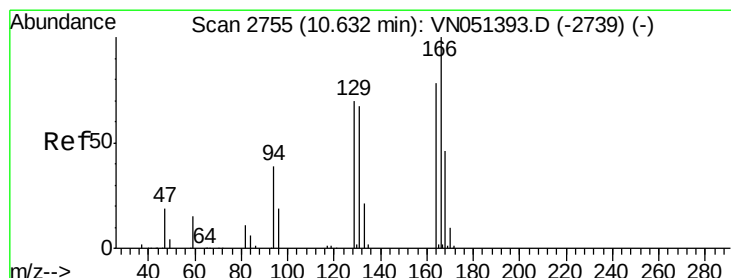
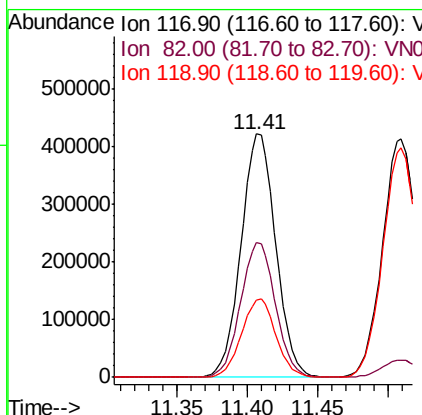
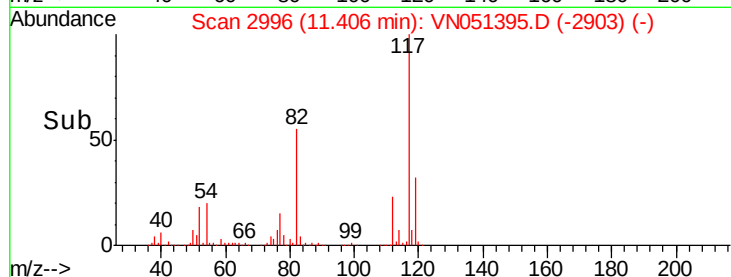
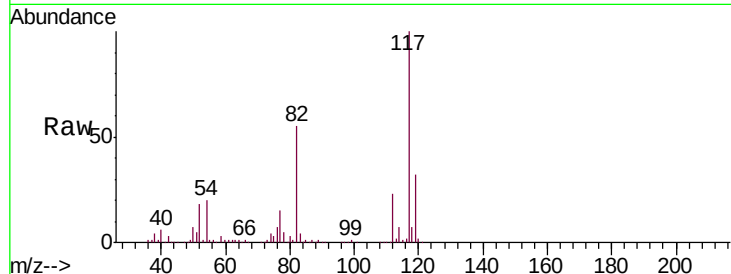
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tgt Ion	Ratio	Resp Lower	Resp Upper
117	100		
82	55.1	44.2	66.2
119	31.5	25.9	38.9

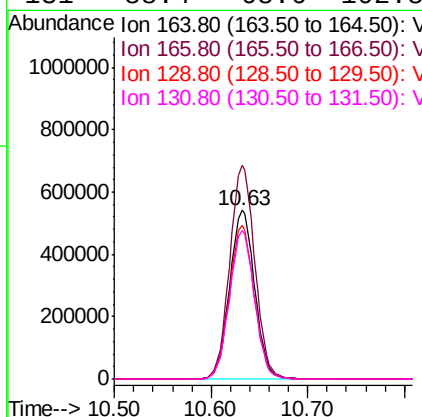
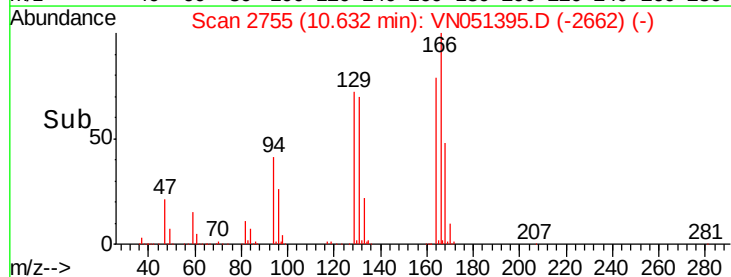
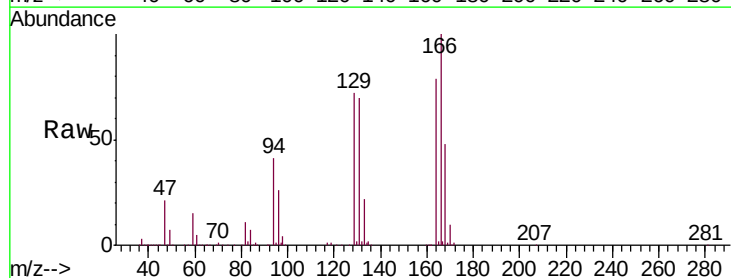
Manual Integrations
APPROVED

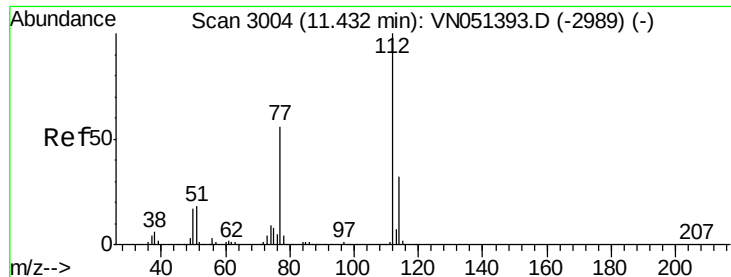
MMDadoda
9/24/2018 2:15:20 PM



#64
Tetrachloroethene
Concen: 146.744 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion	Ratio	Resp Lower	Resp Upper
164	100		
166	126.8	102.3	153.5
129	91.6	71.8	107.8
131	88.4	68.6	102.8





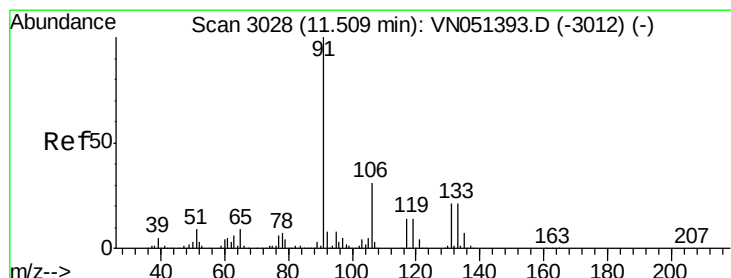
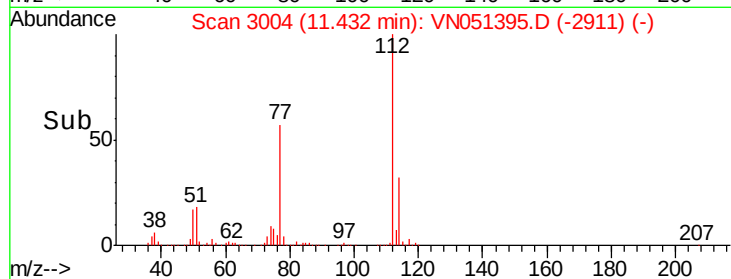
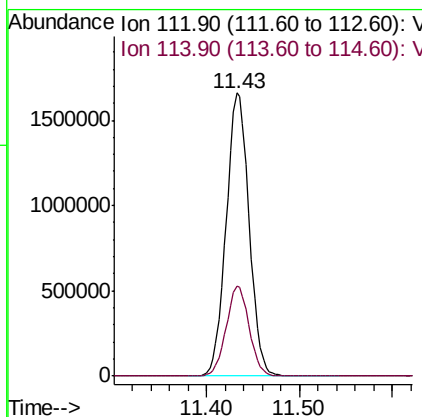
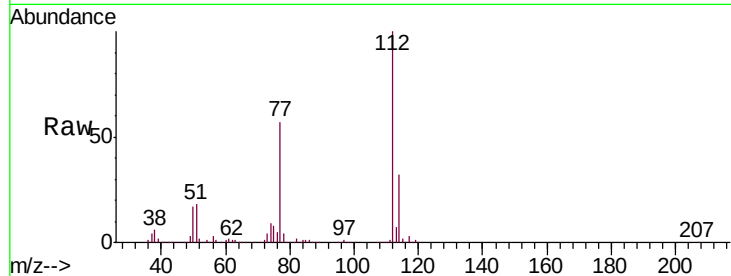
#65
Chlorobenzene
Concen: 151.759 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:112 Resp: 2837747
Ion Ratio Lower Upper
112 100
114 31.6 25.4 38.2

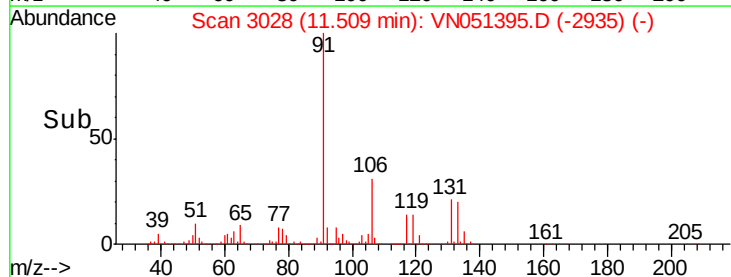
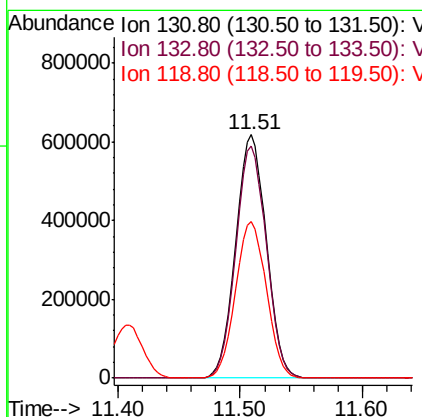
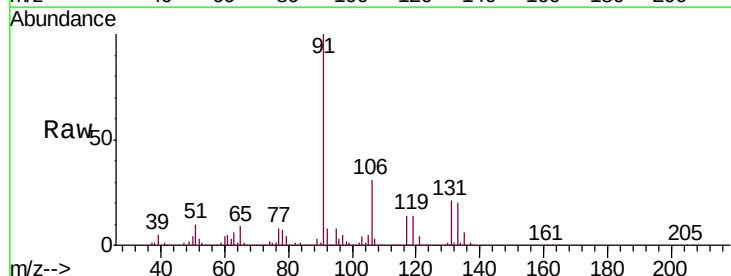
Manual Integrations
APPROVED

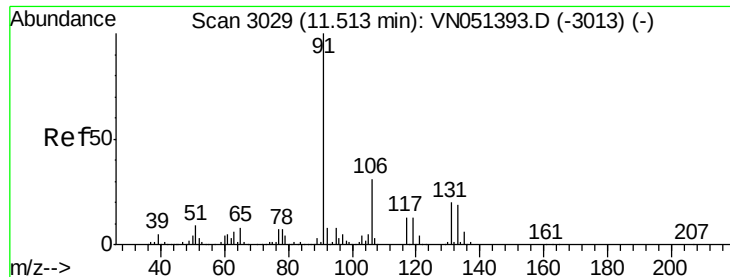
MMDadoda
9/24/2018 2:15:20 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 150.431 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion:131 Resp: 1071691
Ion Ratio Lower Upper
131 100
133 95.4 48.3 144.8
119 64.8 32.8 98.4





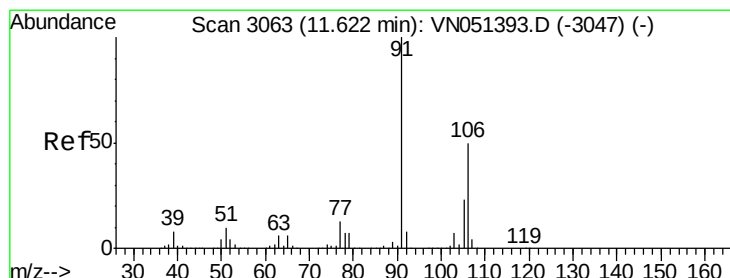
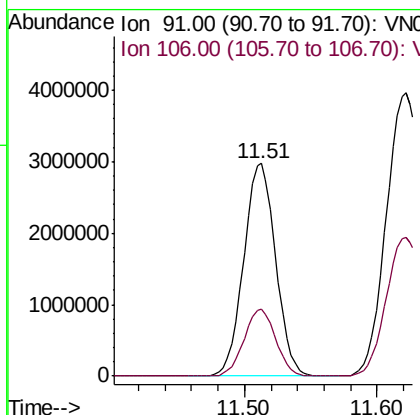
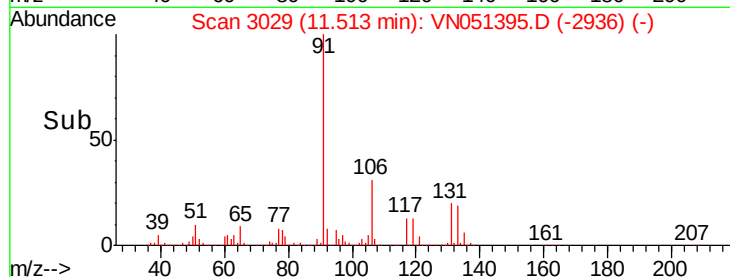
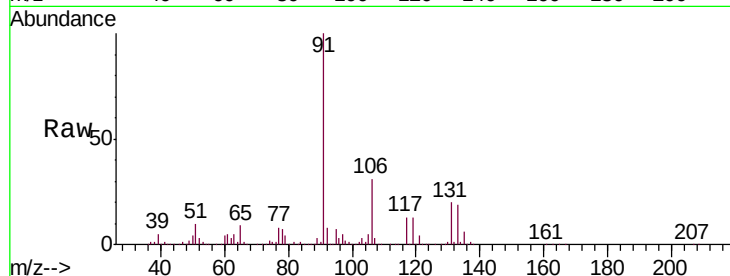
#67
Ethyl Benzene
Concen: 157.352 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tgt Ion: 91 Resp: 4958633
Ion Ratio Lower Upper
91 100
106 31.3 25.0 37.4

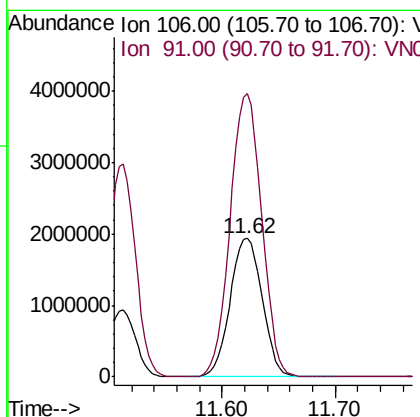
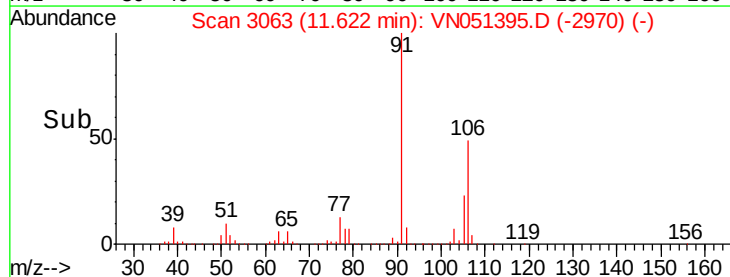
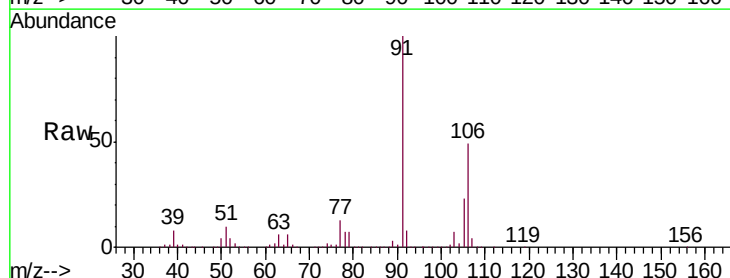
Manual Integrations
APPROVED

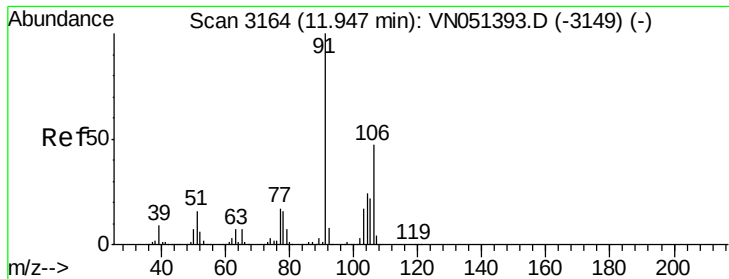
MMDadoda
9/24/2018 2:15:20 PM



#68
m/p-Xylenes
Concen: 312.606 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion: 106 Resp: 3810492
Ion Ratio Lower Upper
106 100
91 202.0 161.3 241.9





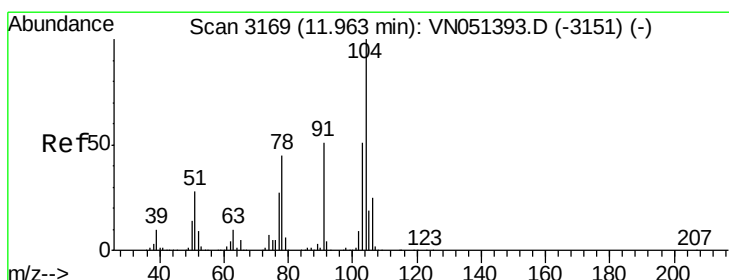
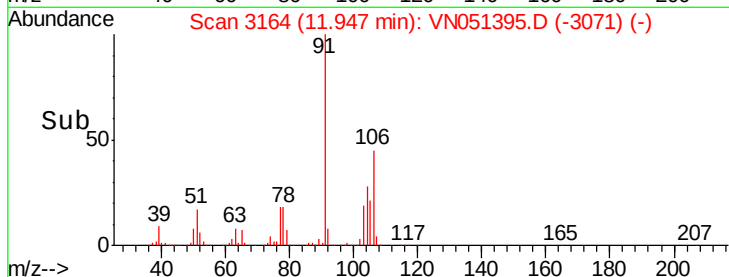
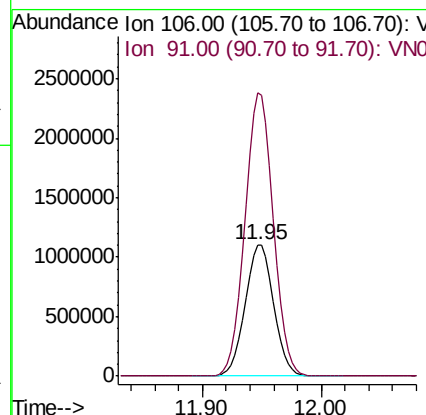
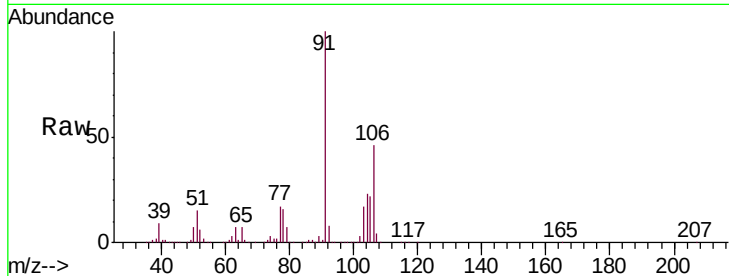
#69
o-Xylene
Concen: 155.844 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:106 Resp: 1826211
Ion Ratio Lower Upper
106 100
91 214.5 105.3 315.9

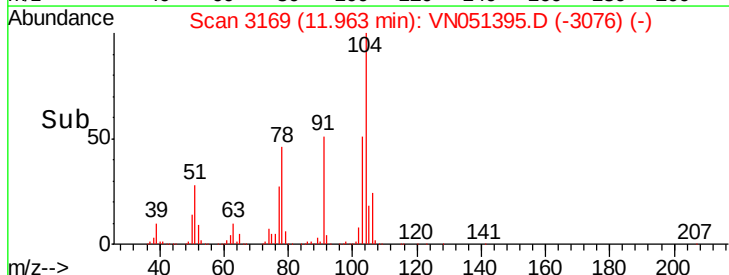
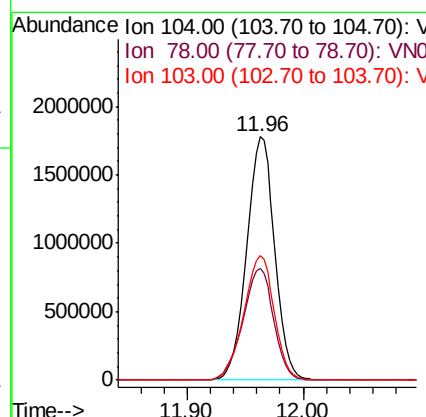
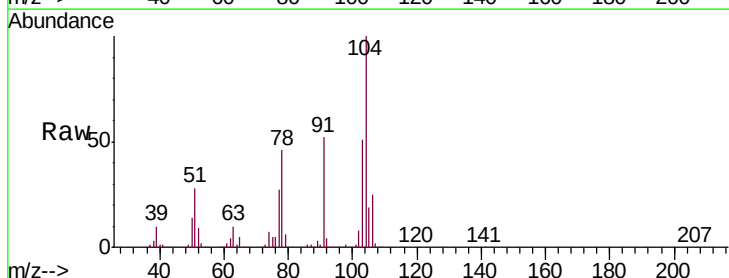
Manual Integrations
APPROVED

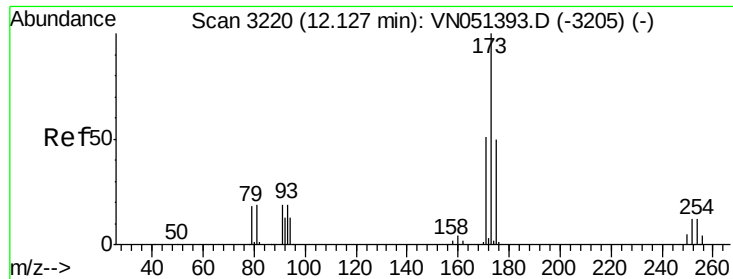
MMDadoda
9/24/2018 2:15:20 PM



#70
Styrene
Concen: 161.052 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion:104 Resp: 2990506
Ion Ratio Lower Upper
104 100
78 50.3 39.9 59.9
103 55.4 44.6 66.8





#71

Bromoform

Concen: 157.418 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

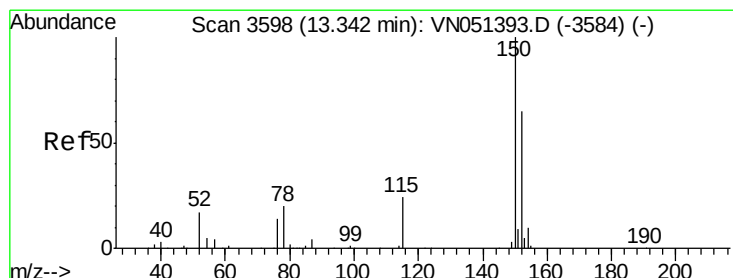
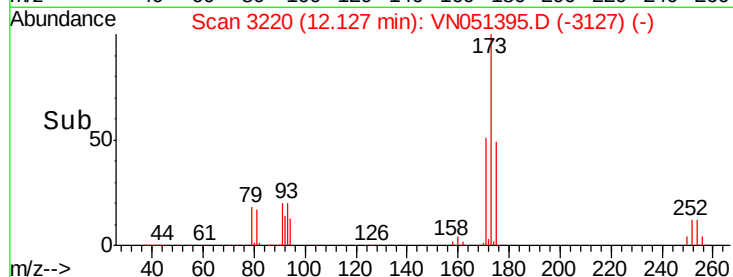
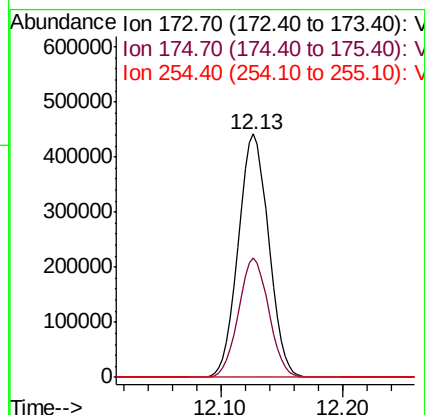
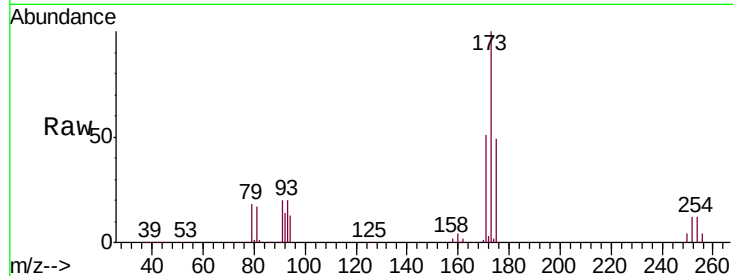
ClientSampleId :

VSTDIC150

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.8	74.3
254	0.1	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
9/24/2018 2:15:20 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

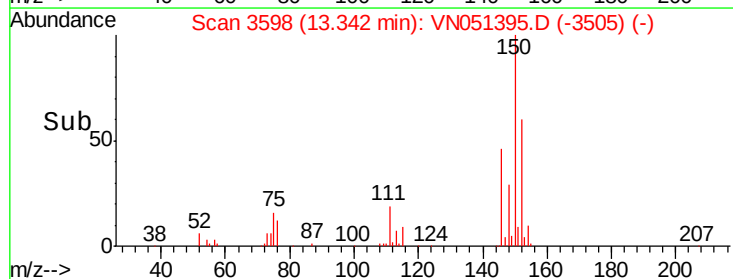
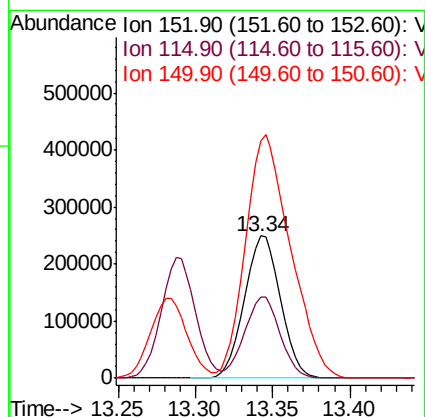
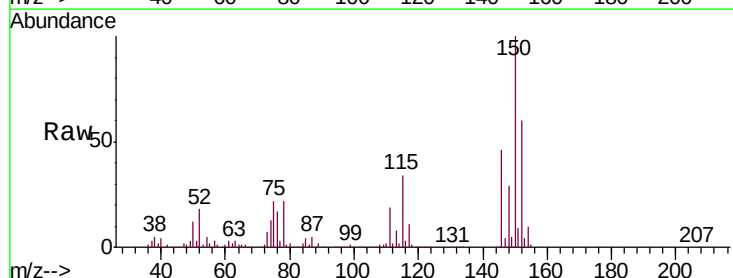
RT: 13.34 min Scan# 3598

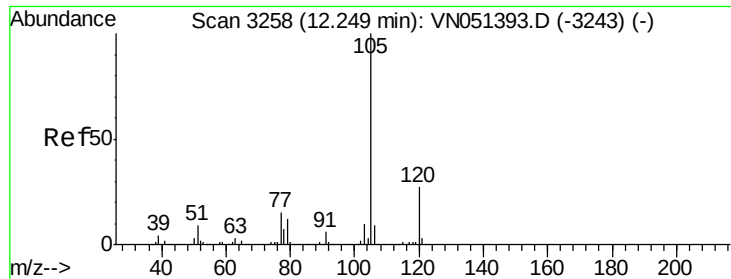
Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.3	84.9
150	212.6	0.0	353.6





#73

Isopropylbenzene

Concen: 145.972 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:105 Resp: 4994139

Ion Ratio Lower Upper

105 100

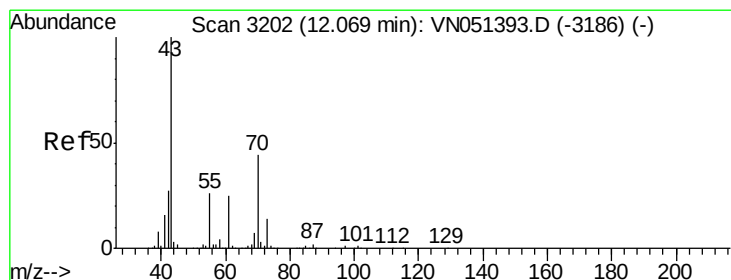
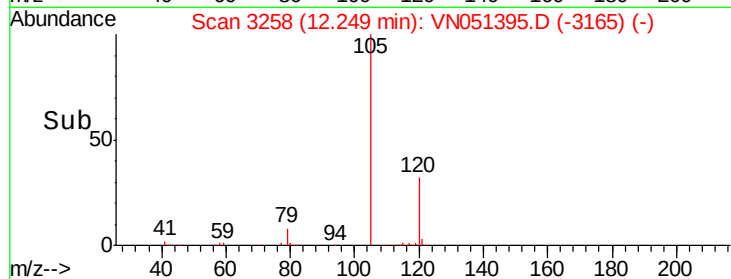
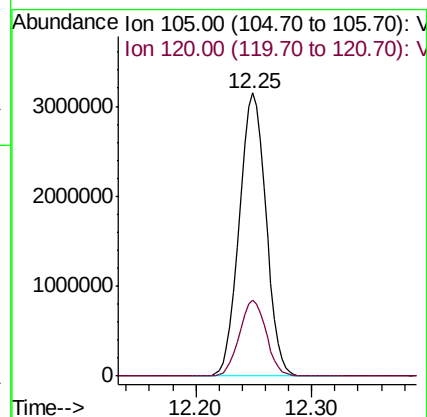
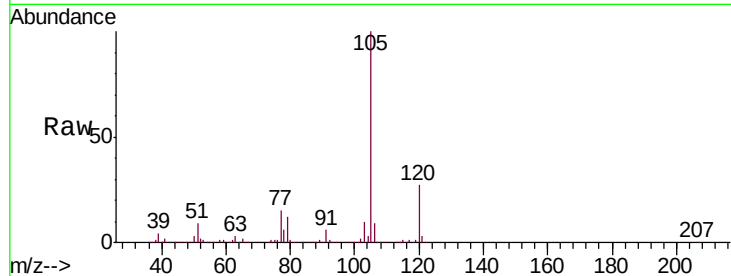
120 26.8 13.3 39.8

Manual Integrations

APPROVED

MMDadoda

9/24/2018 2:15:20 PM



#74

N-ethyl acetate

Concen: 157.548 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Tgt Ion: 43 Resp: 1352420

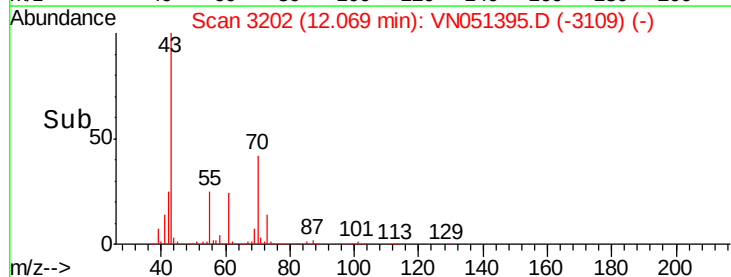
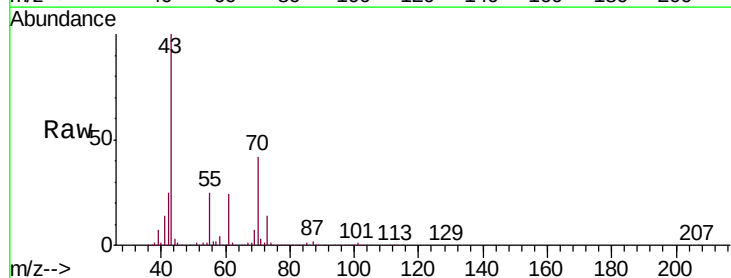
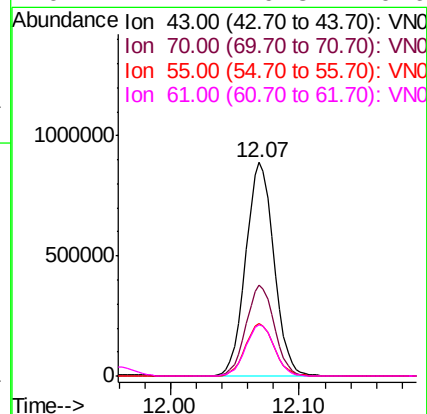
Ion Ratio Lower Upper

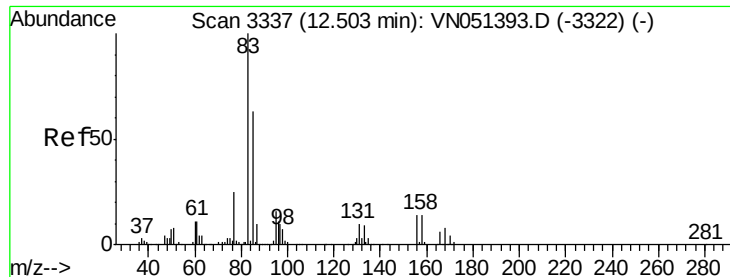
43 100

70 42.8 35.0 52.4

55 25.1 21.4 32.2

61 24.4 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 136.607 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tgt Ion: 83 Resp: 1089872
Ion Ratio Lower Upper

83 100

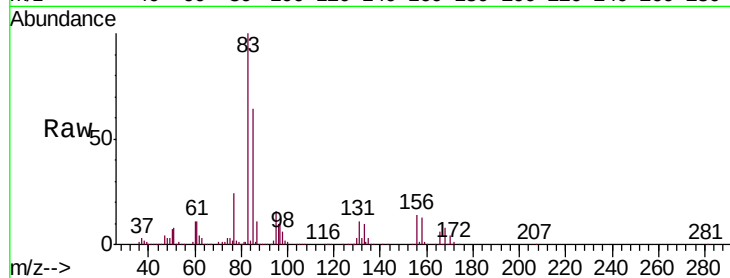
131 10.9 5.3 15.9

85 64.1 31.6 95.0

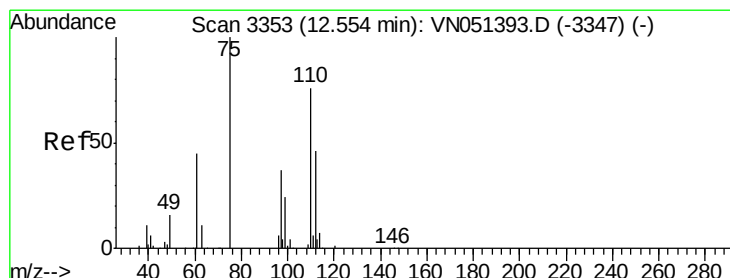
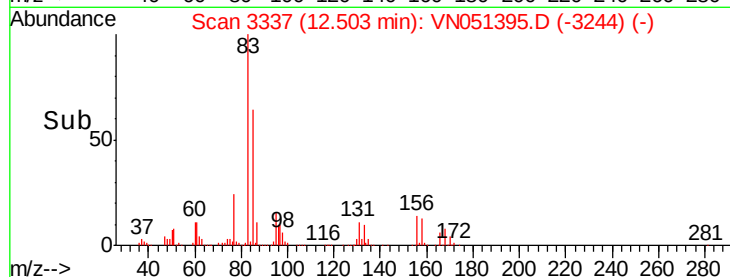
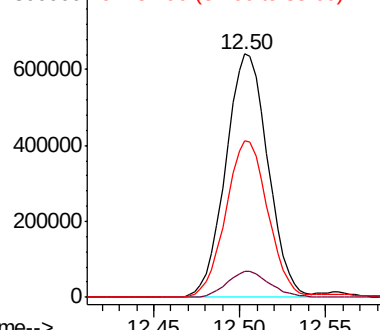
Manual Integrations
APPROVED

MMDadoda

9/24/2018 2:15:20 PM



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): VN
Ion 84.90 (84.60 to 85.60): VN



#76

1,2,3-Trichloropropane

Concen: 140.845 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

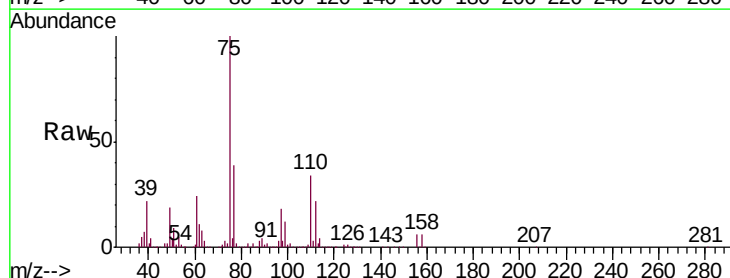
Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

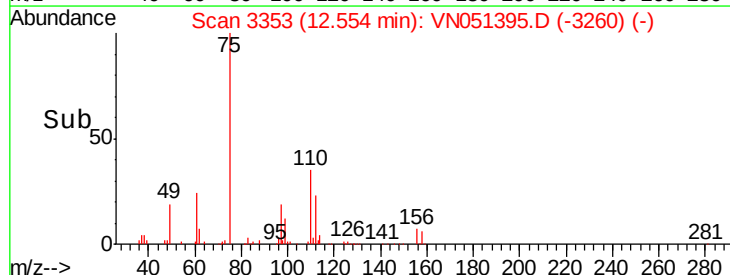
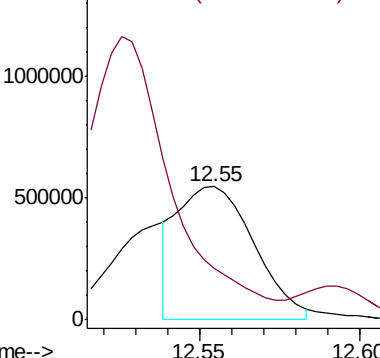
Tgt Ion: 75 Resp: 921274
Ion Ratio Lower Upper

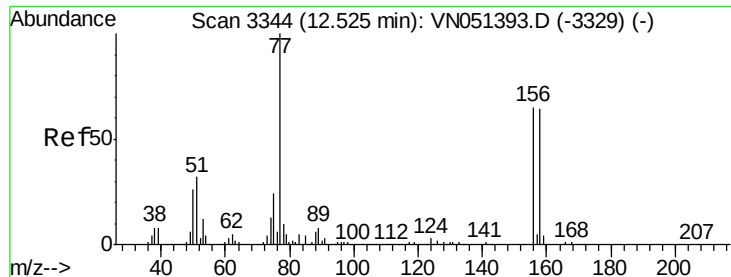
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN





#77

Bromobenzene

Concen: 144.214 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

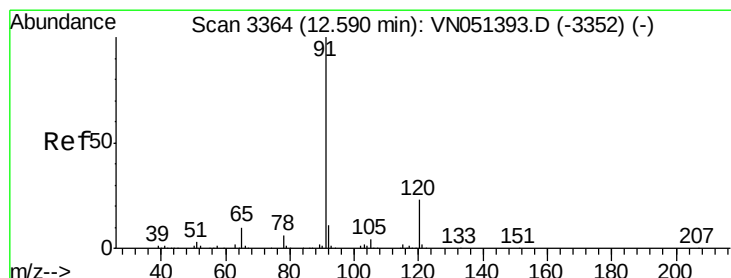
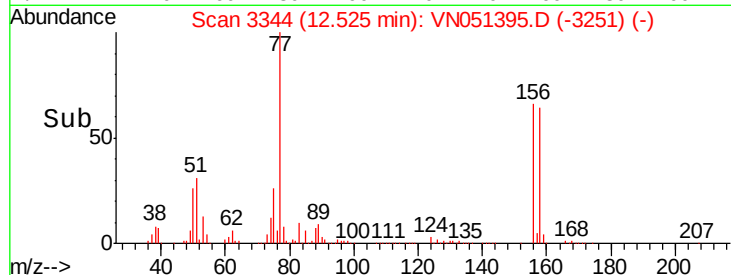
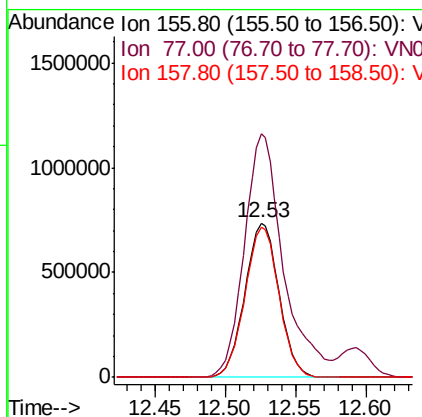
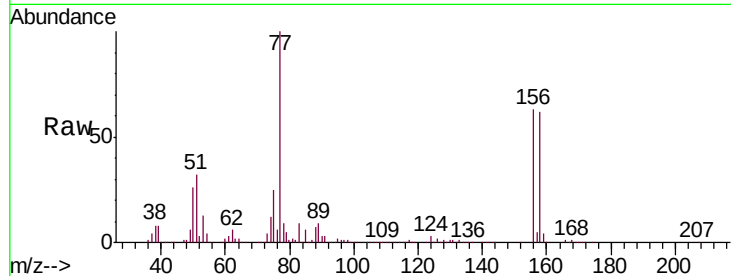
ClientSampleId :

VSTDIC150

Tgt Ion:156 Resp: 1249035
 Ion Ratio Lower Upper
 156 100
 77 180.1 89.5 268.4
 158 97.0 49.4 148.2

Manual Integrations
 APPROVED

MMDadoda
 9/24/2018 2:15:20 PM



#78

n-propylbenzene

Concen: 150.277 ug/l

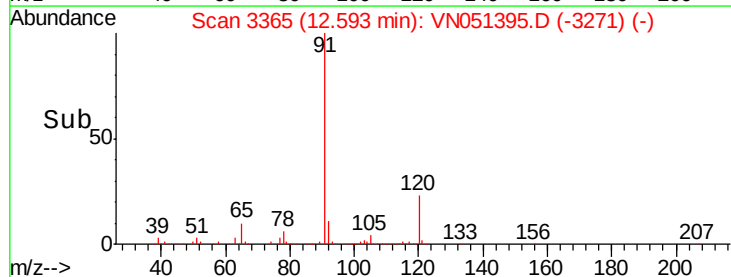
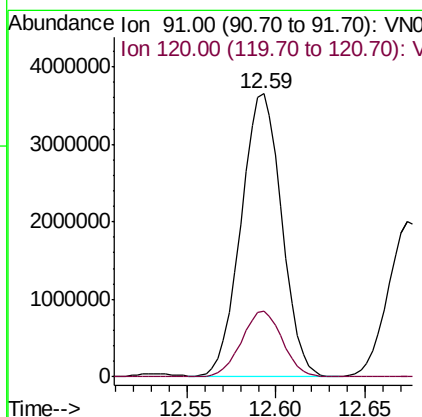
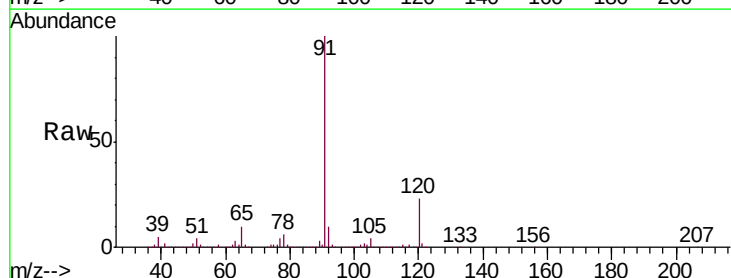
RT: 12.59 min Scan# 3365

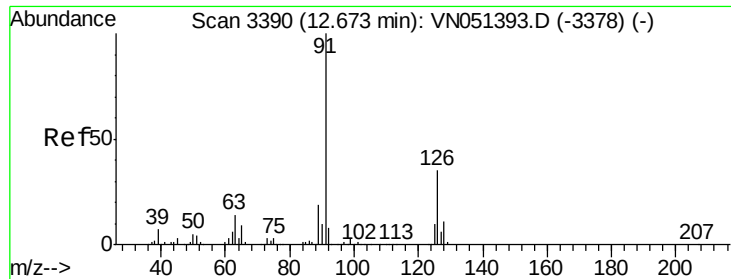
Delta R.T. 0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Tgt Ion: 91 Resp: 5794528
 Ion Ratio Lower Upper
 91 100
 120 23.3 11.9 35.5





#79

2-Chlorotoluene

Concen: 142.646 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 3292375

Ion Ratio Lower Upper

91 100

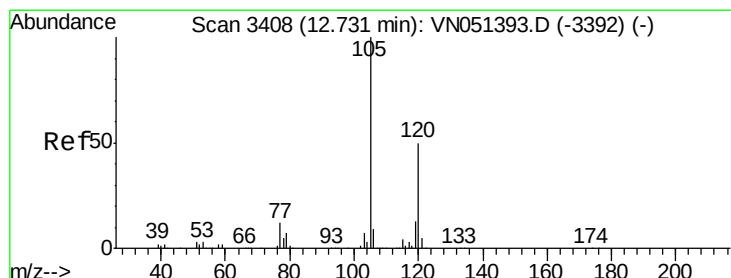
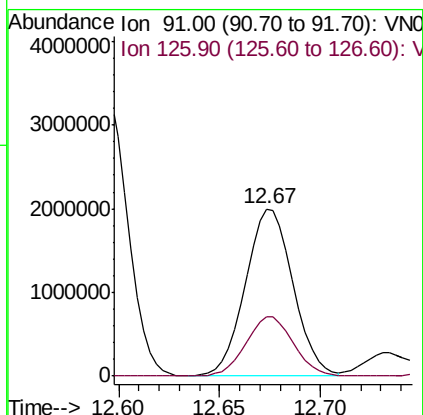
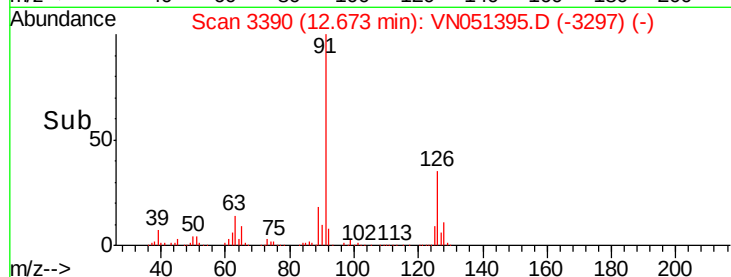
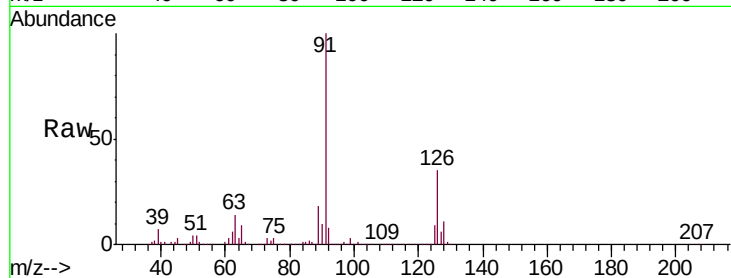
126 35.5 17.6 52.8

Manual Integrations

APPROVED

MMDadoda

9/24/2018 2:15:20 PM



#80

1,3,5-Trimethylbenzene

Concen: 147.156 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051395.D

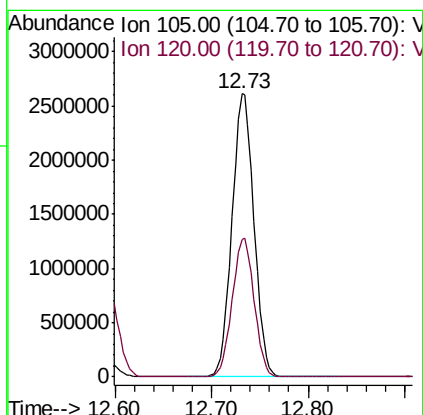
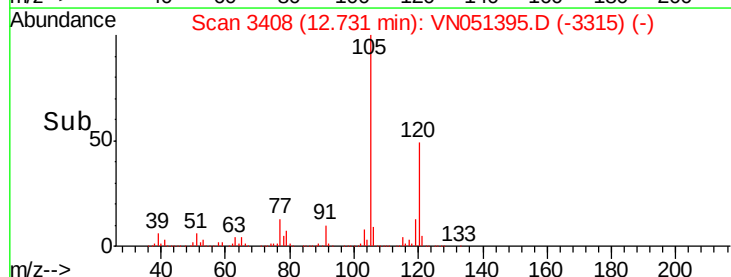
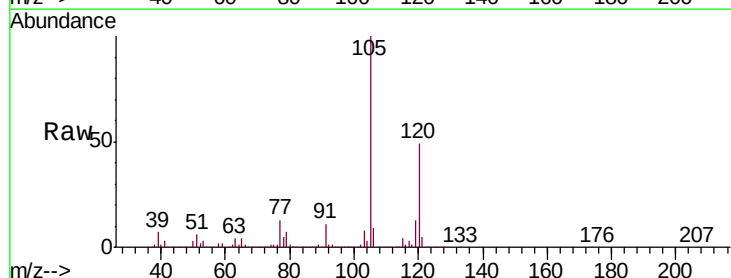
Acq: 22 Sep 2018 13:56

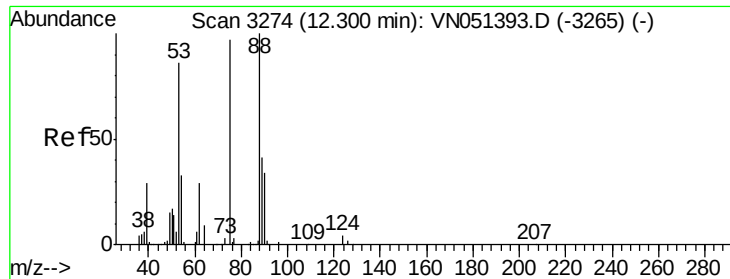
Tgt Ion: 105 Resp: 4105290

Ion Ratio Lower Upper

105 100

120 49.1 24.8 74.4





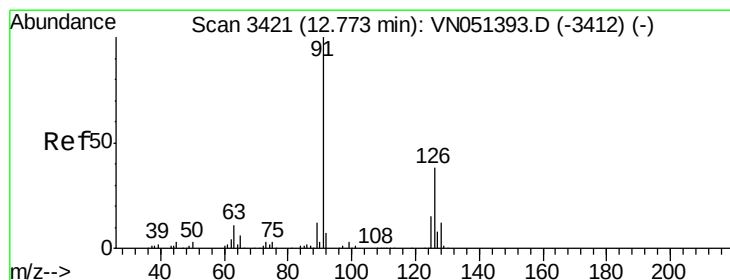
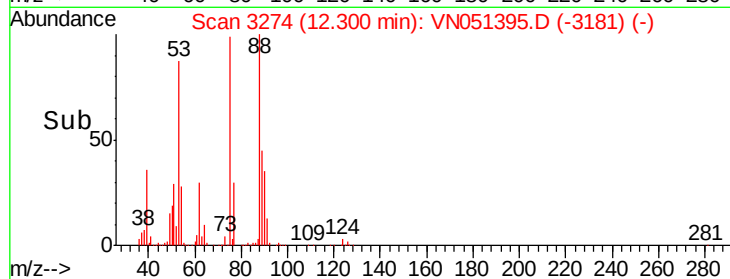
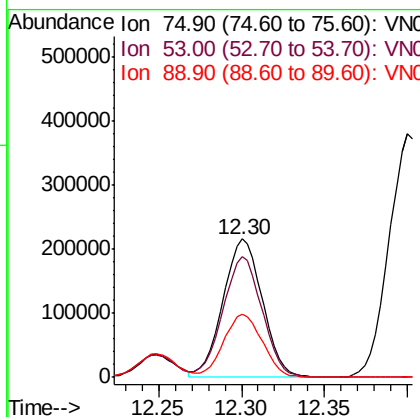
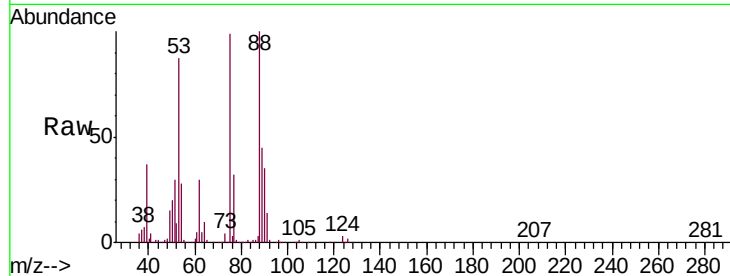
#81
trans-1,4-Dichloro-2-butene
Concen: 163.436 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
75	100		
53	86.6	73.9	110.9
89	44.5	36.7	55.1

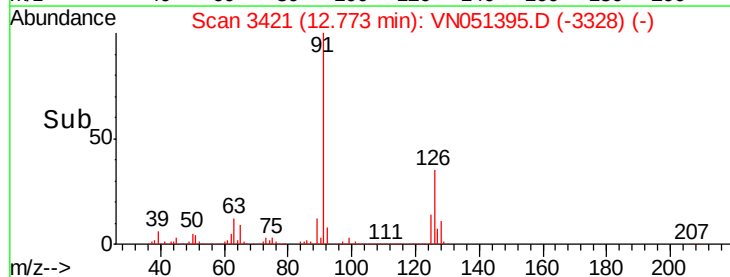
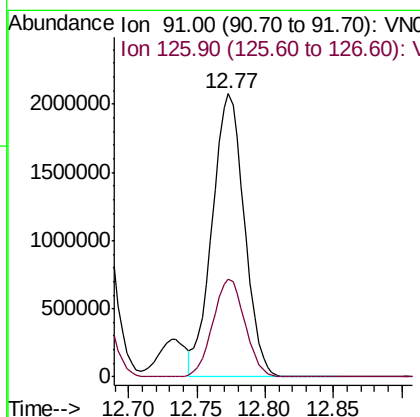
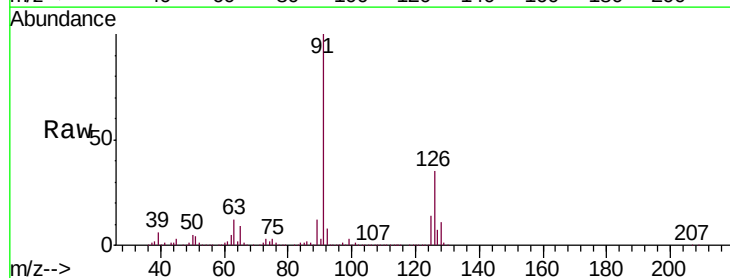
Manual Integrations
APPROVED

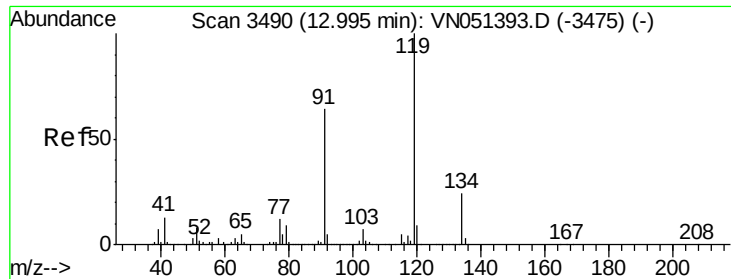
MMDadoda
9/24/2018 2:15:20 PM



#82
4-Chlorotoluene
Concen: 147.304 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.5	52.5





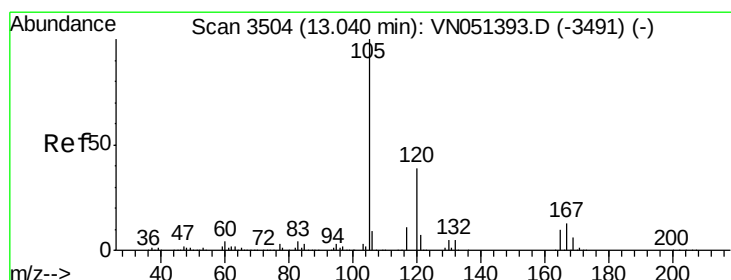
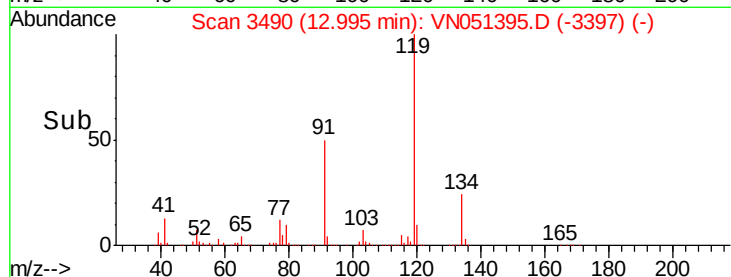
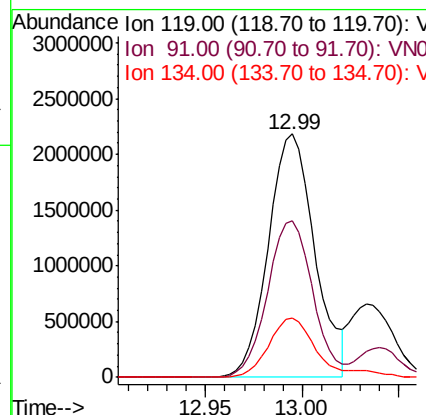
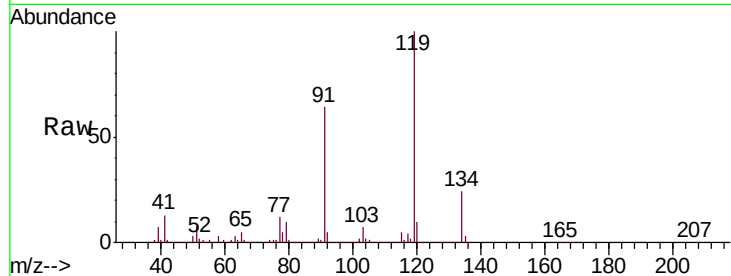
#83
 tert-Butylbenzene
 Concen: 146.708 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion:119 Resp: 3642900
 Ion Ratio Lower Upper
 119 100
 91 62.4 31.7 95.1
 134 25.8 12.3 36.9

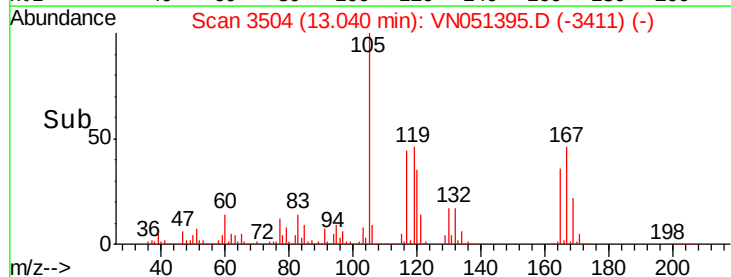
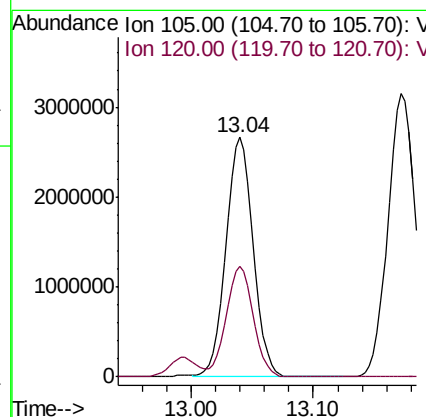
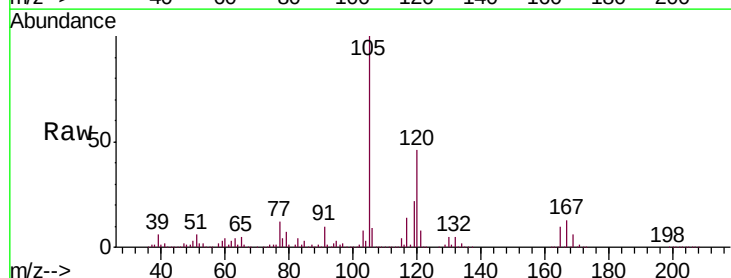
Manual Integrations
 APPROVED

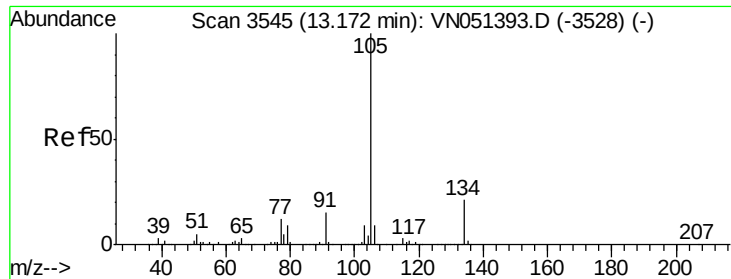
MMDadoda
 9/24/2018 2:15:20 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 148.338 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Tgt Ion:105 Resp: 4170014
 Ion Ratio Lower Upper
 105 100
 120 46.2 22.9 68.7





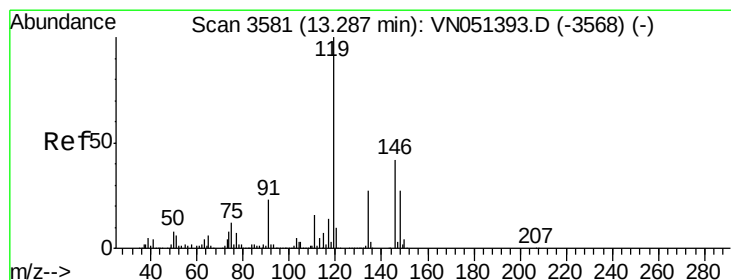
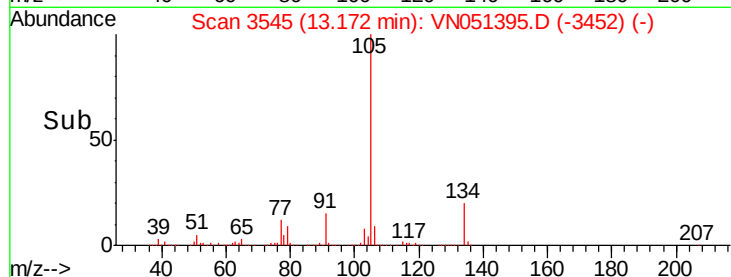
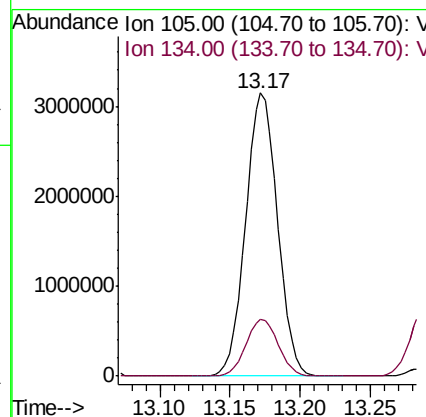
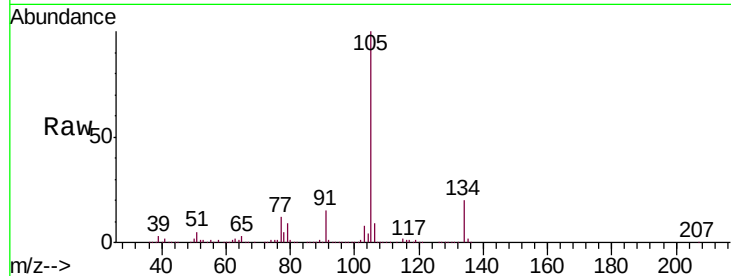
#85
 sec-Butylbenzene
 Concen: 148.210 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion:105 Resp: 4978713
 Ion Ratio Lower Upper
 105 100
 134 20.3 10.4 31.1

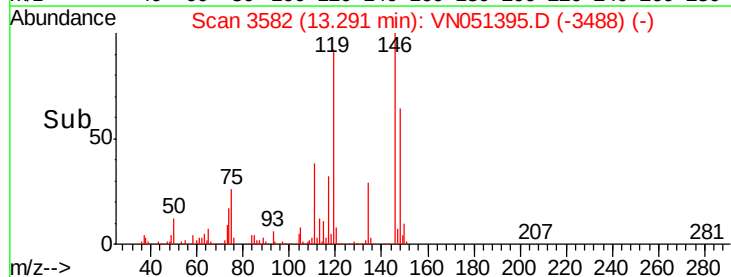
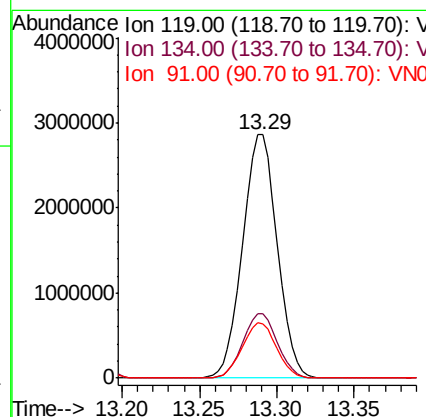
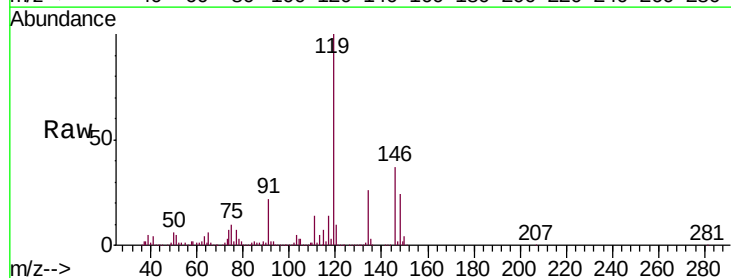
Manual Integrations
 APPROVED

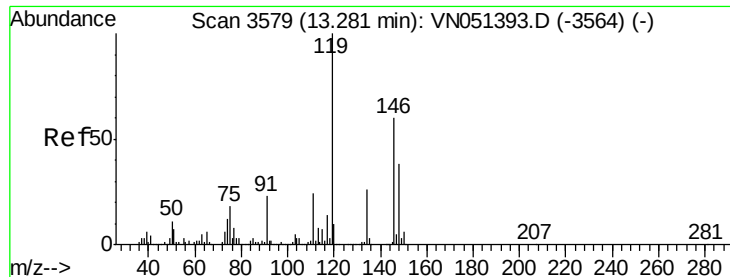
MMDadoda
 9/24/2018 2:15:20 PM



#86
 p-Isopropyltoluene
 Concen: 153.001 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Tgt Ion:119 Resp: 4447292
 Ion Ratio Lower Upper
 119 100
 134 26.6 13.3 39.9
 91 22.6 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 148.659 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 2228088

Ion Ratio Lower Upper

146 100

111 39.1 19.7 59.1

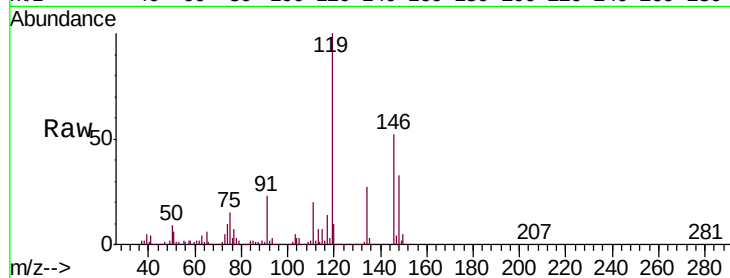
148 64.0 31.9 95.7

Manual Integrations

APPROVED

MMDadoda

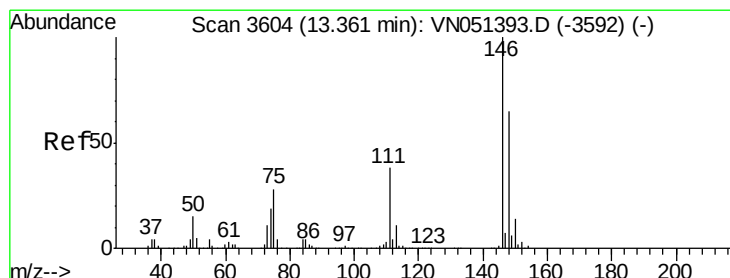
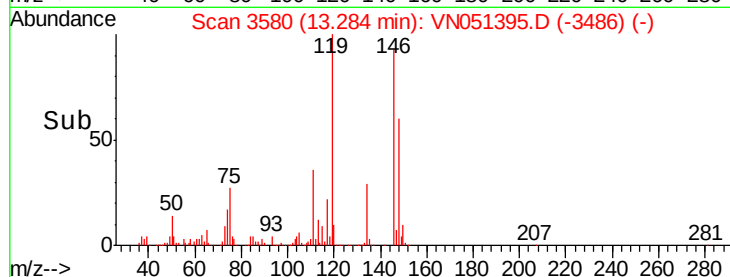
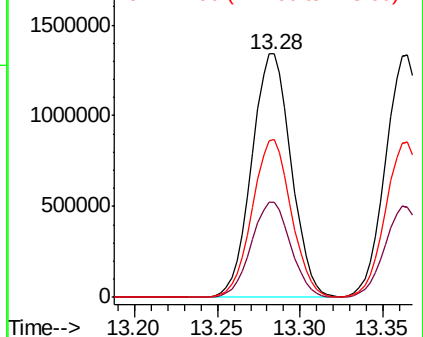
9/24/2018 2:15:20 PM



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 150.272 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN051395.D

Acq: 22 Sep 2018 13:56

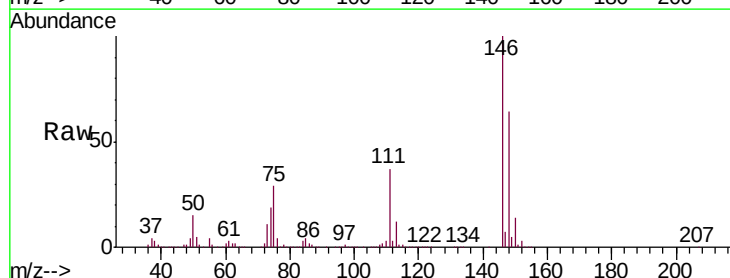
Tgt Ion:146 Resp: 2167115

Ion Ratio Lower Upper

146 100

111 37.5 19.1 57.1

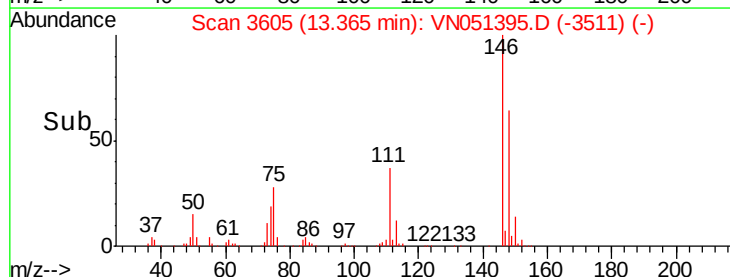
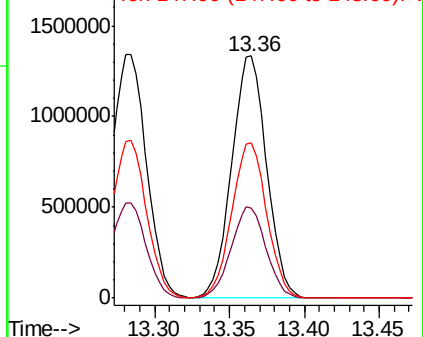
148 64.1 32.5 97.5

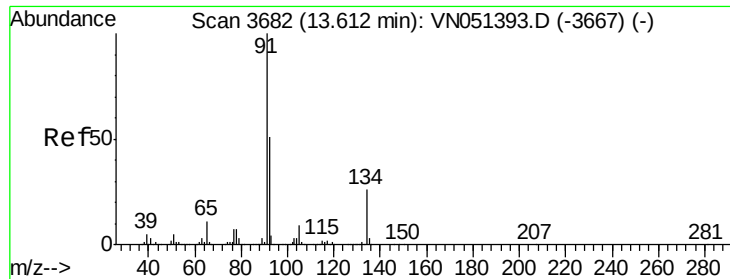


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





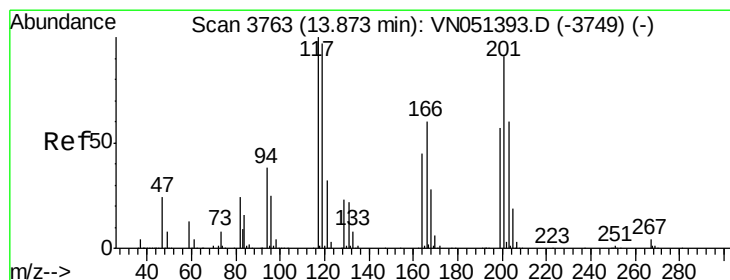
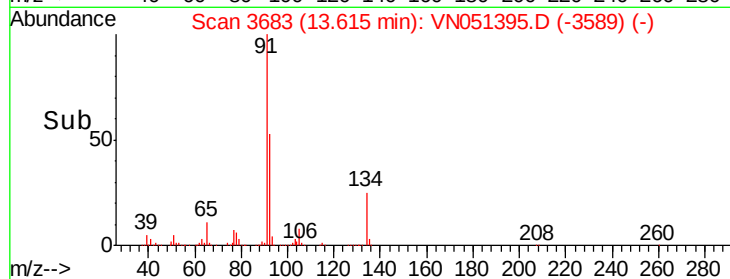
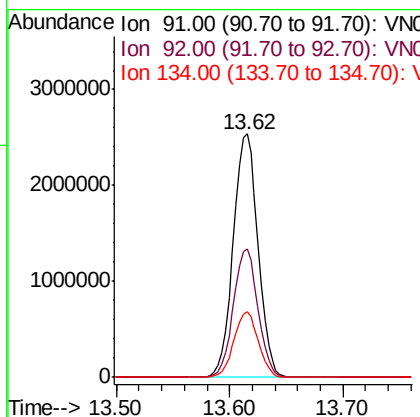
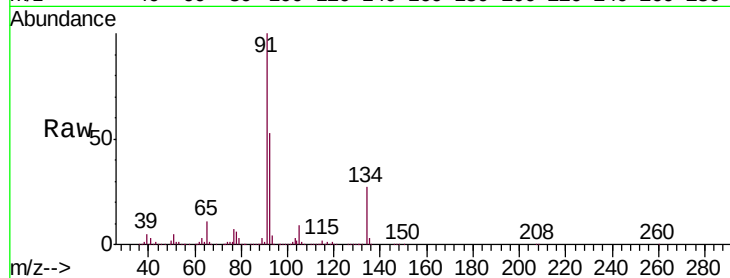
#89
n-Butylbenzene
Concen: 161.322 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 91 Resp: 3855951
Ion Ratio Lower Upper
91 100
92 52.4 25.5 76.5
134 26.7 13.3 39.8

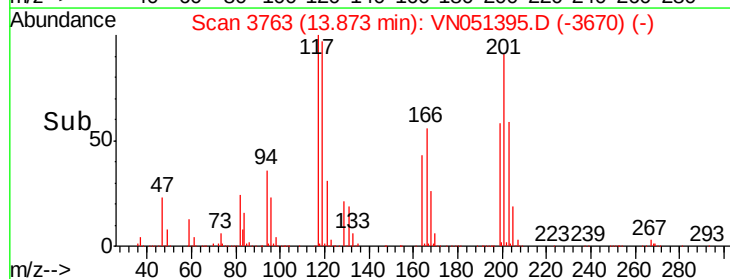
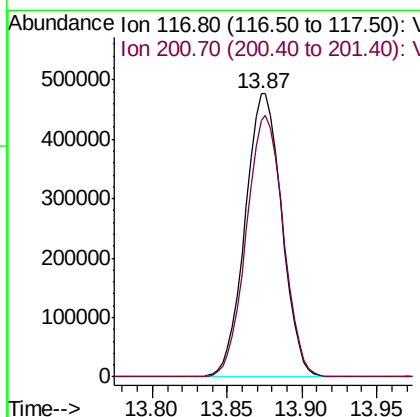
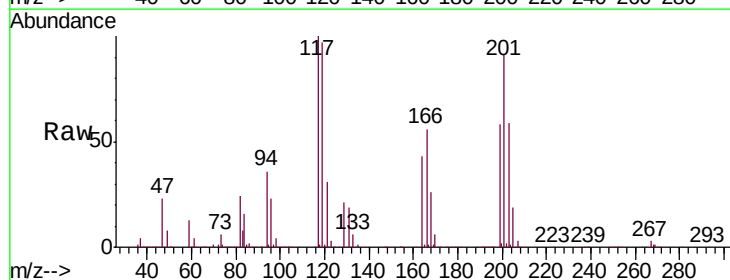
Manual Integrations
APPROVED

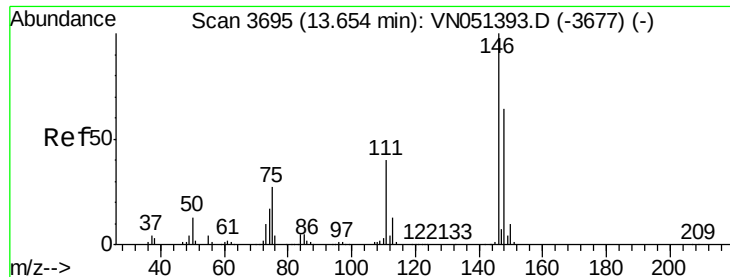
MMDadoda
9/24/2018 2:15:20 PM



#90
Hexachloroethane
Concen: 140.302 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion: 117 Resp: 812562
Ion Ratio Lower Upper
117 100
201 92.9 45.5 136.4





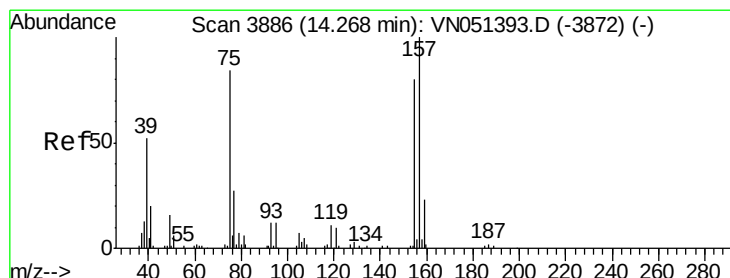
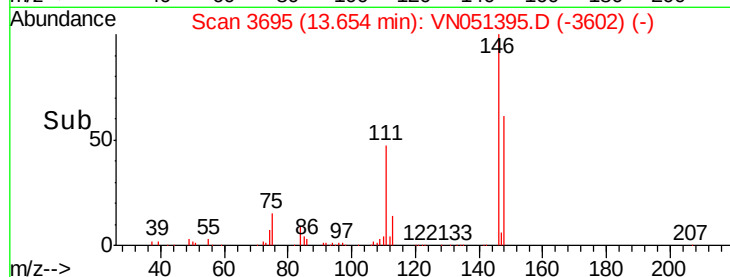
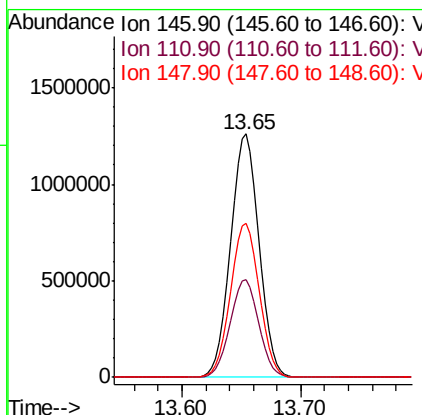
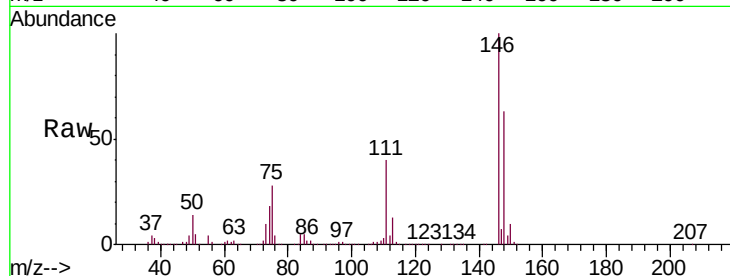
#91
 1,2-Dichlorobenzene
 Concen: 143.467 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.0	60.0
148	64.1	32.1	96.5

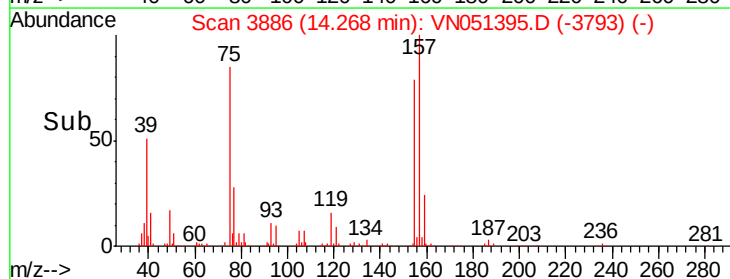
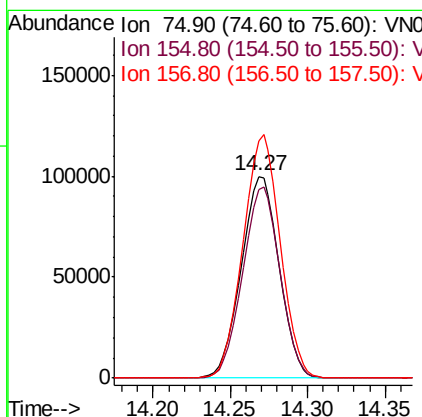
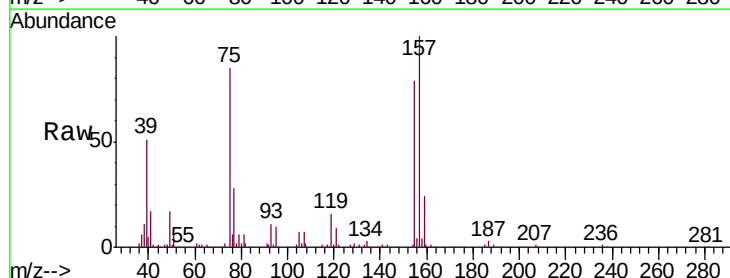
Manual Integrations
 APPROVED

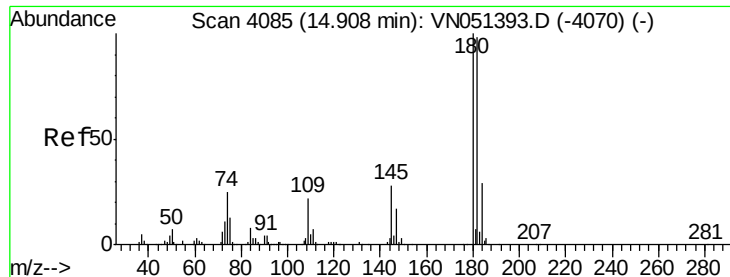
MMDadoda
 9/24/2018 2:15:20 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 149.389 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.4	46.9	140.6
157	119.1	58.4	175.1





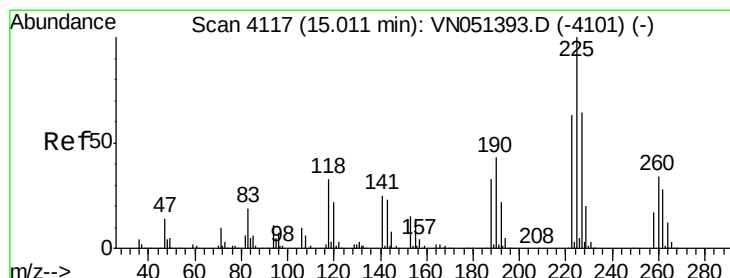
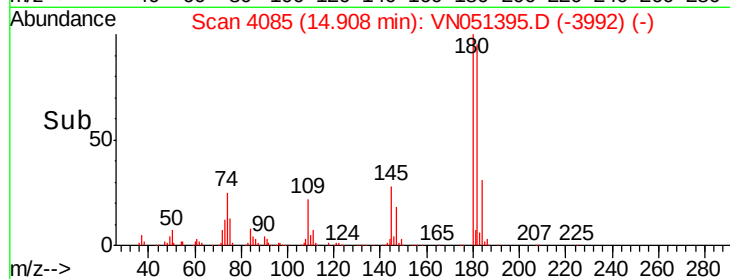
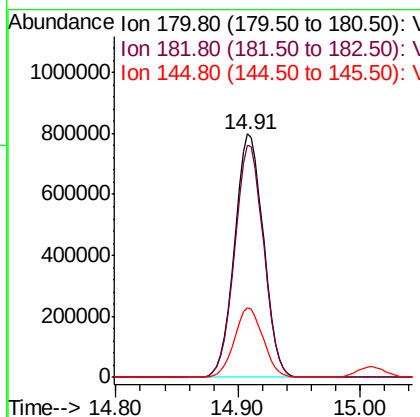
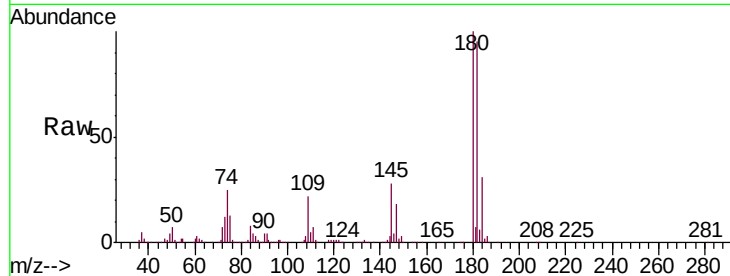
#93
 1,2,4-Trichlorobenzene
 Concen: 152.661 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	48.5	145.6
145	28.3	14.1	42.4

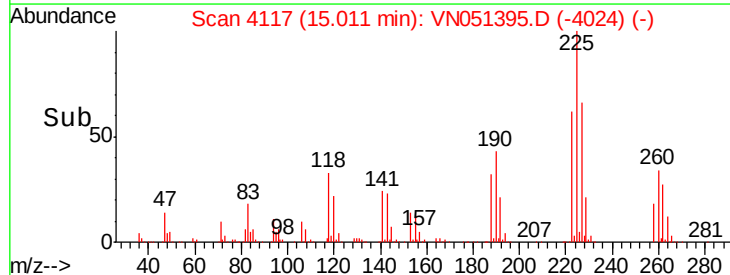
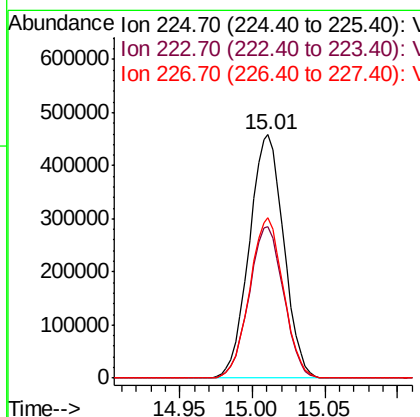
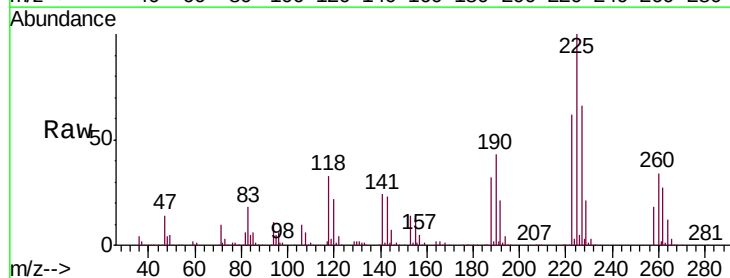
Manual Integrations
 APPROVED

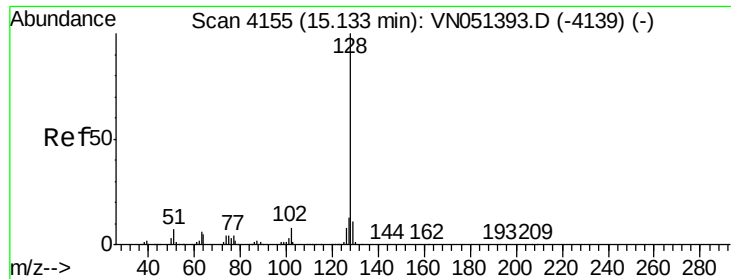
MMDadoda
 9/24/2018 2:15:20 PM



#94
 Hexachlorobutadiene
 Concen: 138.183 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN051395.D
 Acq: 22 Sep 2018 13:56

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.4	31.9	95.9
227	64.6	32.5	97.5





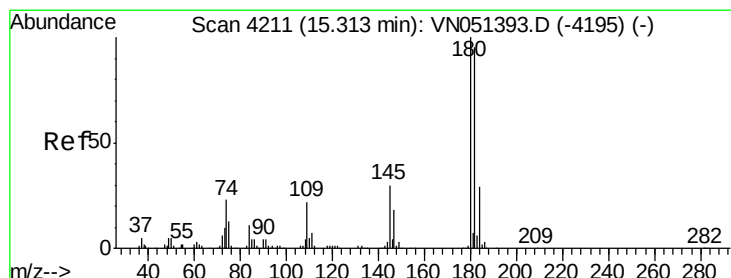
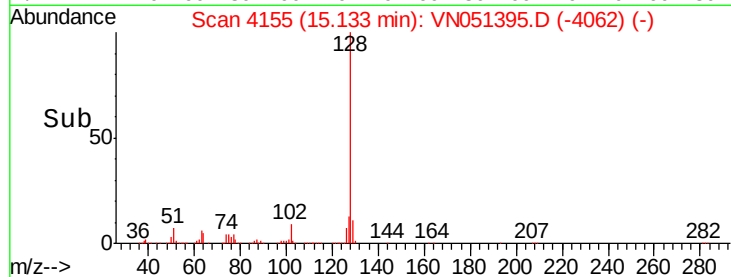
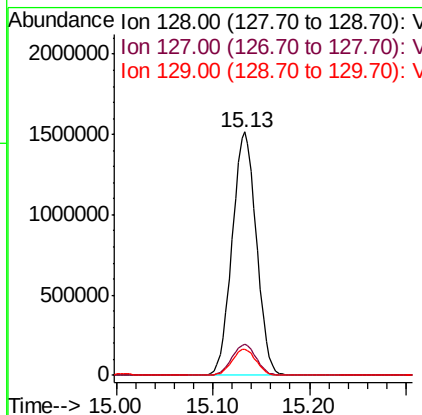
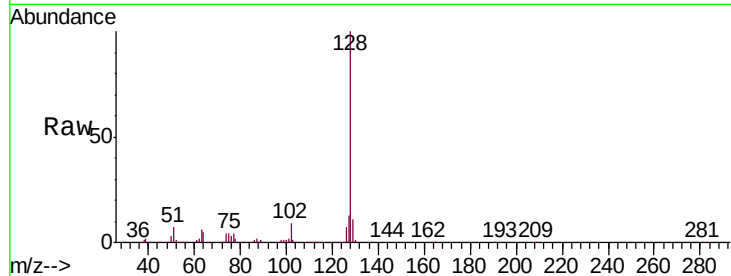
#95
Naphthalene
Concen: 153.984 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	10.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/24/2018 2:15:20 PM



#96
1,2,3-Trichlorobenzene
Concen: 175.388 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN051395.D
Acq: 22 Sep 2018 13:56

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.2	141.6
145	29.5	14.6	43.8

