

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110818\
 Data File : VN052222.D
 Acq On : 8 Nov 2018 16:09
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 1:12:48 PM

Quant Time: Nov 08 16:29:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	60049	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	361755	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	320488	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	132005	29.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.73%
60) 4-Bromofluorobenzene	12.40	95	150720	29.40	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.00%
63) Toluene-d8	10.09	98	450568	29.90	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	79800	19.897 ug/l	93
3) Chloromethane	2.06	50	89644	19.557 ug/l	99
4) Vinyl Chloride	2.19	62	84598	18.814 ug/l	100
5) Bromomethane	2.58	94	56985	18.567 ug/l	94
6) Chloroethane	2.71	64	52098	18.120 ug/l	97
7) Trichlorofluoromethane	3.02	101	123235	20.239 ug/l	96
8) Diethyl Ether	3.42	74	36901	17.948 ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.76	101	70459	19.798 ug/l	94
10) 1,1-Dichloroethene	3.74	96	65394	19.692 ug/l	95
11) Methyl Iodide	3.96	142	92602	19.287 ug/l	97
12) Methyl Acetate	4.33	43	54750	19.588 ug/l	96
13) Acrolein	3.61	56	21975	74.122 ug/l	98
14) Acrylonitrile	4.99	53	112349	90.638 ug/l	98
15) Acetone	3.82	58	28815	98.359 ug/l	98
16) Carbon Disulfide	4.06	76	177596	18.113 ug/l	100
17) Allyl chloride	4.33	41	104382	18.513 ug/l	94
18) Methylene Chloride	4.56	84	75664	18.460 ug/l	94
19) trans-1,2-Dichloroethene	5.05	96	71333	19.605 ug/l	92
20) Diisopropyl ether	5.95	45	242207	19.769 ug/l	99
21) 1,1-Dichloroethane	5.85	63	141491	19.761 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	81461	19.173 ug/l	98
23) tert-Butyl Alcohol	4.78	59	17529m	90.764 ug/l	
24) Methyl tert-Butyl Ether	5.04	73	173204	18.398 ug/l	94
25) Chloroform	7.37	83	138644	19.284 ug/l	99
26) Cyclohexane	7.65	56	126299	19.677 ug/l #	96
29) 1,1-Dichloropropene	7.80	75	103342	17.993 ug/l	96
30) 2-Butanone	6.84	43	141202	92.318 ug/l #	79
31) 2,2-Dichloropropane	6.83	77	107342	18.143 ug/l #	75
32) 1,1,1-Trichloroethane	7.57	97	116824	18.179 ug/l	98
33) Carbon Tetrachloride	7.78	117	106247	18.591 ug/l	99
34) Benzene	8.04	78	319797	19.016 ug/l	97
35) Methacrylonitrile	7.20	41	50468m	24.056 ug/l	
36) 1,2-Dichloroethane	8.12	62	98752	17.563 ug/l	100
37) Trichloroethene	8.83	130	79169	18.809 ug/l	94
38) Methylcyclohexane	9.08	83	130829	18.673 ug/l	98
39) 1,2-Dichloropropane	9.12	63	83117	18.567 ug/l	92
40) Dibromomethane	9.21	93	49225	17.840 ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110818\
 Data File : VN052222.D
 Acq On : 8 Nov 2018 16:09
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 1:12:48 PM

Quant Time: Nov 08 16:29:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	103836	18.392	ug/l	99
42) Vinyl Acetate	5.90	43	796237	88.924	ug/l	100
43) Ethyl Acetate	7.21	43	17863	2.324	ug/l	97
44) Isopropyl Acetate	8.16	43	108790	17.094	ug/l	99
45) 1,4-Dioxane	9.20	88	9707	334.351	ug/l #	57
46) Methyl methacrylate	9.20	41	54945	17.344	ug/l	96
47) n-amyl Acetate	12.07	43	95076	16.481	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	98563	17.581	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	117569	18.170	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	65787	18.030	ug/l	94
51) Ethyl methacrylate	10.43	69	81748	17.335	ug/l	95
52) 1,3-Dichloropropane	10.71	76	115656	18.197	ug/l	99
53) Dibromochloromethane	10.90	129	72753	18.469	ug/l	95
54) 1,2-Dibromoethane	11.00	107	65992	17.836	ug/l	96
55) 2-Chloroethyl vinyl ether	9.69	63	238509	92.364	ug/l	98
56) Bromoform	12.12	173	40758	17.915	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	309985	90.264	ug/l	99
59) 2-Hexanone	10.75	43	207416	87.719	ug/l	99
61) Tetrachloroethene	10.63	164	69842	20.038	ug/l	95
62) Toluene	10.15	91	342977	19.064	ug/l	100
64) Chlorobenzene	11.43	112	216628	18.999	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	75558	19.470	ug/l	99
66) Ethyl Benzene	11.51	91	370050	19.042	ug/l	97
67) m/p-Xylenes	11.62	106	281714	37.653	ug/l	99
68) o-Xylene	11.95	106	135217	18.956	ug/l	95
69) Styrene	11.96	104	217204	18.896	ug/l	97
70) Isopropylbenzene	12.25	105	367509	19.192	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	78865	18.725	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	56456m	15.245	ug/l	
73) Bromobenzene	12.53	156	84982	20.029	ug/l	85
74) n-propylbenzene	12.59	91	420577	18.861	ug/l	97
75) 2-Chlorotoluene	12.67	91	240217	18.685	ug/l	96
76) 1,3,5-Trimethylbenzene	12.73	105	288673	18.800	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	17830	15.388	ug/l	91
78) 4-Chlorotoluene	12.77	91	236510	18.269	ug/l	98
79) tert-butylbenzene	12.99	119	259105	19.372	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	292172	19.100	ug/l	98
81) sec-Butylbenzene	13.17	105	354861	19.278	ug/l	99
82) p-Isopropyltoluene	13.29	119	296755	19.077	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	146985	19.585	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	141626	19.062	ug/l	96
85) n-Butylbenzene	13.61	91	254203	18.881	ug/l	98
86) Hexachloroethane	13.87	117	48986	18.661	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	141767	19.881	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	9347	16.229	ug/l #	73
89) 1,2,4-Trichlorobenzene	14.91	180	53232	18.390	ug/l	95
90) Hexachlorobutadiene	15.01	225	33137	20.925	ug/l	96
91) Naphthalene	15.13	128	121642	18.232	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	50050	19.840	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110818\
Data File : VN052222.D
Acq On : 8 Nov 2018 16:09
Operator : MD\SY
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 11 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

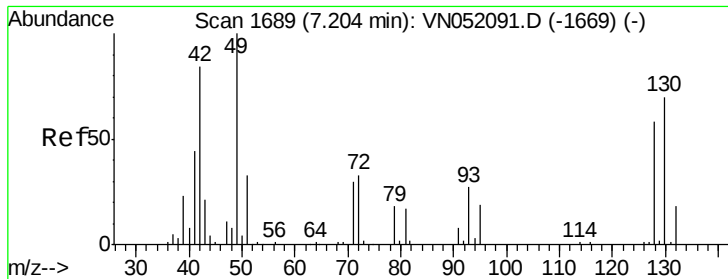
Manual Integrations
APPROVED

MMDadoda
11/9/2018 1:12:48 PM

Quant Time: Nov 08 16:29:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 02 05:39:38 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.01 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:128 Resp: 60049

Ion Ratio Lower Upper

128 100

49 178.9 0.0 453.7

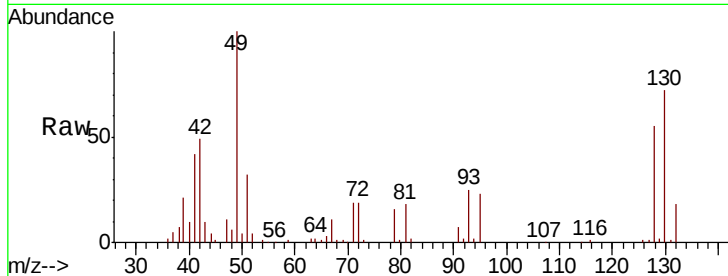
130 130.4 0.0 308.8

Manual Integrations

APPROVED

MMDadoda

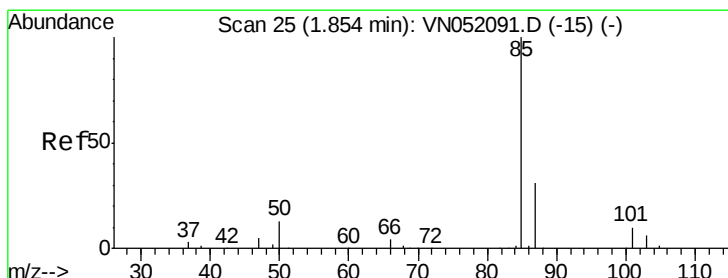
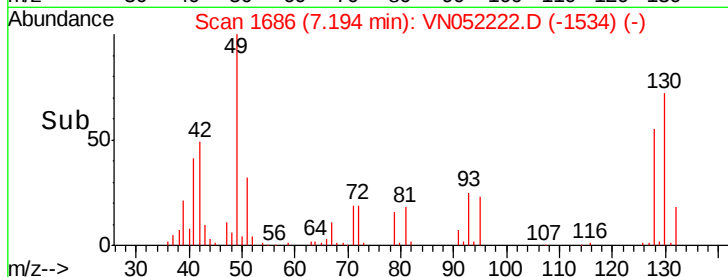
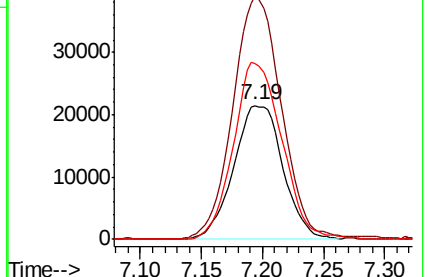
11/9/2018 1:12:48 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 19.897 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052222.D

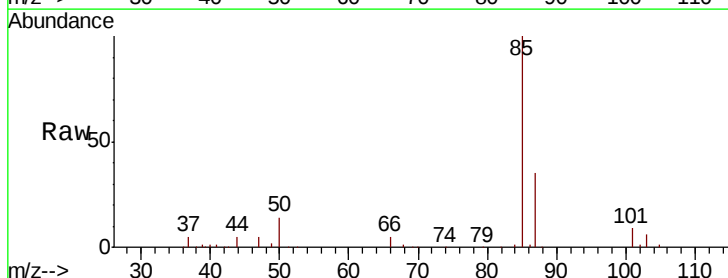
Acq: 8 Nov 2018 16:09

Tgt Ion: 85 Resp: 79800

Ion Ratio Lower Upper

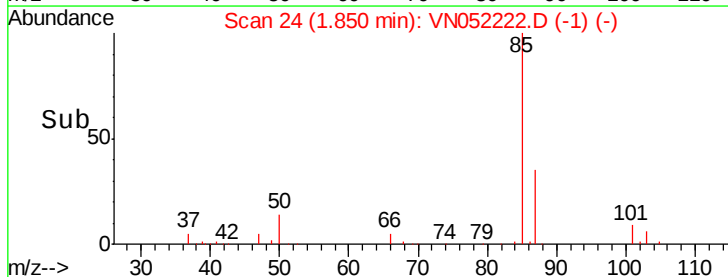
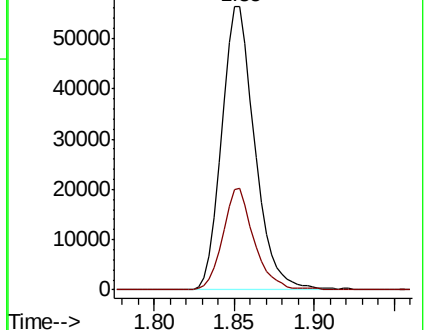
85 100

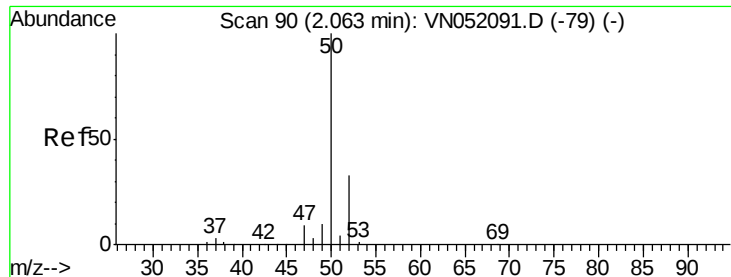
87 35.4 15.7 47.1



Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 19.557 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 50 Resp: 89644

Ion Ratio Lower Upper

50 100

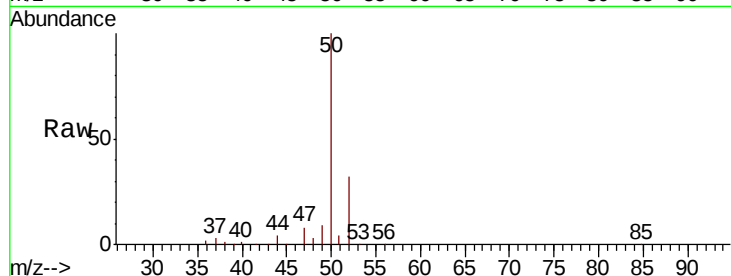
52 32.4 26.5 39.7

Manual Integrations

APPROVED

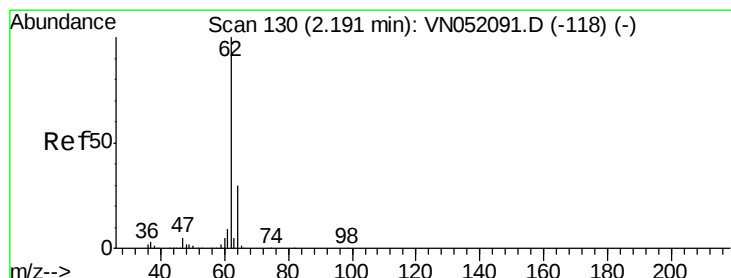
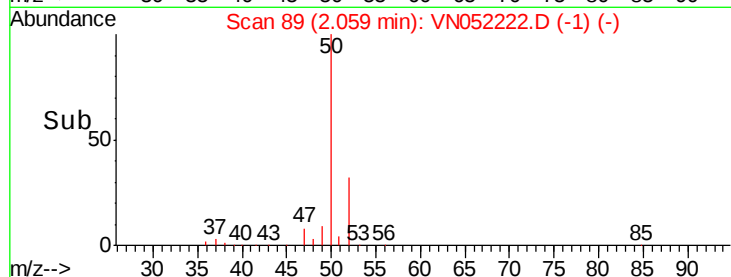
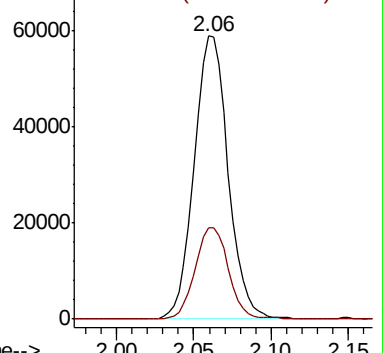
MMDadoda

11/9/2018 1:12:48 PM



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 18.814 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052222.D

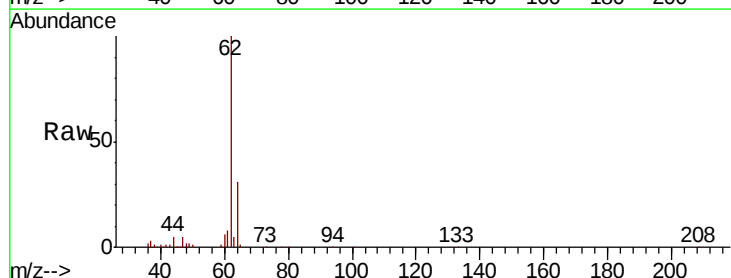
Acq: 8 Nov 2018 16:09

Tgt Ion: 62 Resp: 84598

Ion Ratio Lower Upper

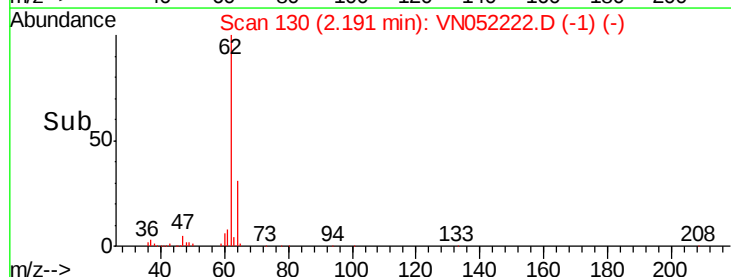
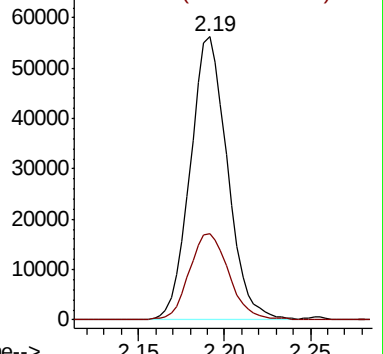
62 100

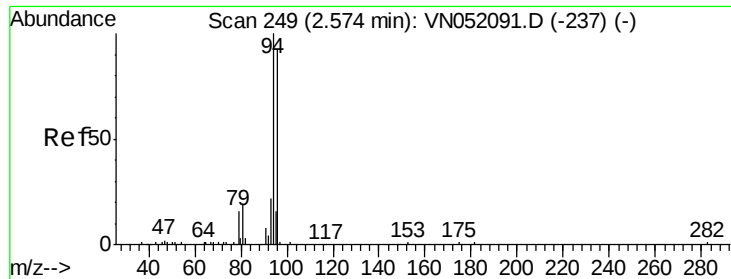
64 30.3 24.2 36.4



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 18.567 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 94 Resp: 56985

Ion Ratio Lower Upper

94 100

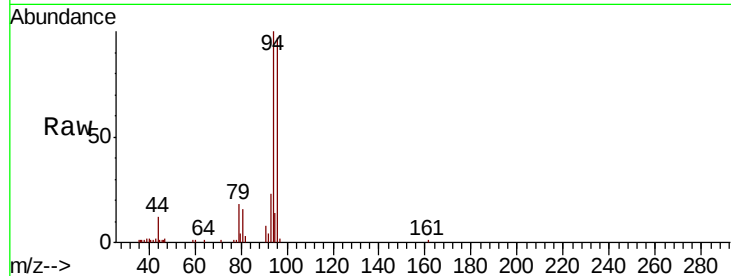
96 97.3 73.4 110.0

Manual Integrations

APPROVED

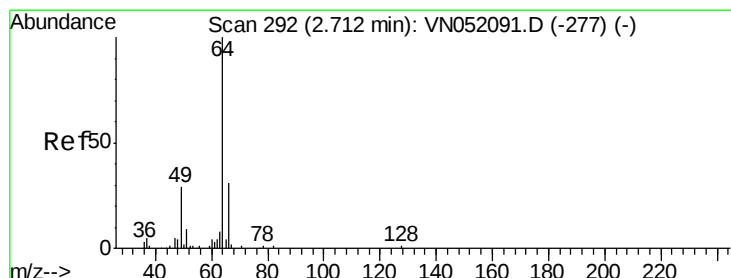
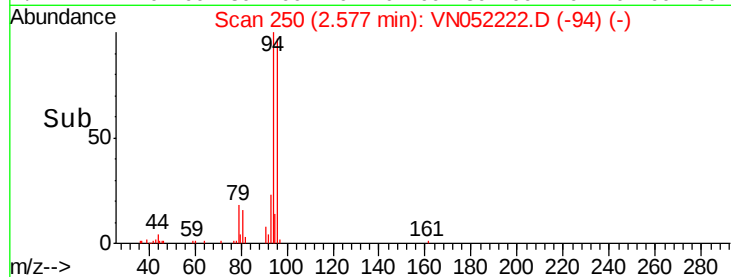
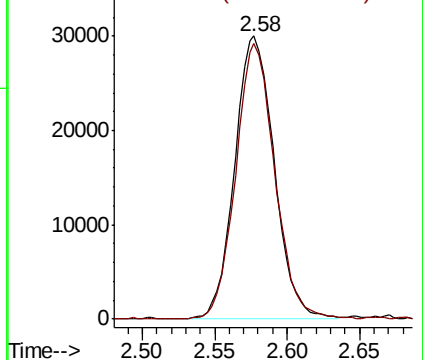
MMDadoda

11/9/2018 1:12:48 PM



Abundance Ion 94.00 (93.70 to 94.70): VNO

Ion 96.00 (95.70 to 96.70): VNO



#6

Chloroethane

Concen: 18.120 ug/l

RT: 2.71 min Scan# 292

Delta R.T. -0.00 min

Lab File: VN052222.D

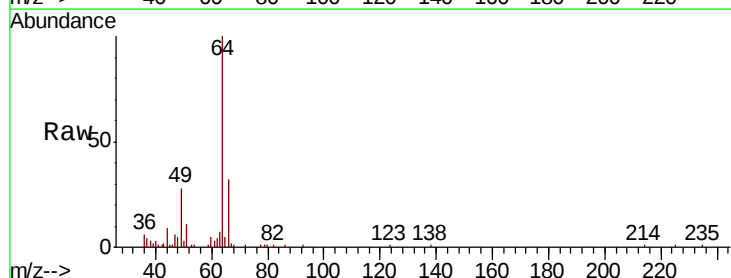
Acq: 8 Nov 2018 16:09

Tgt Ion: 64 Resp: 52098

Ion Ratio Lower Upper

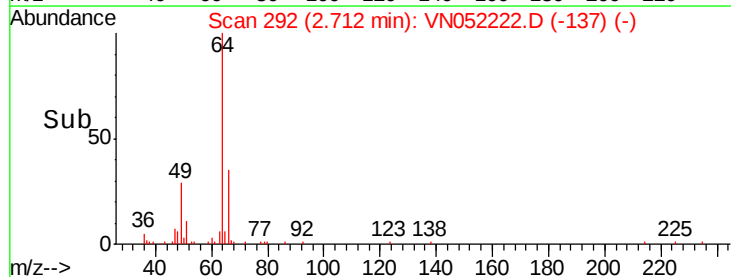
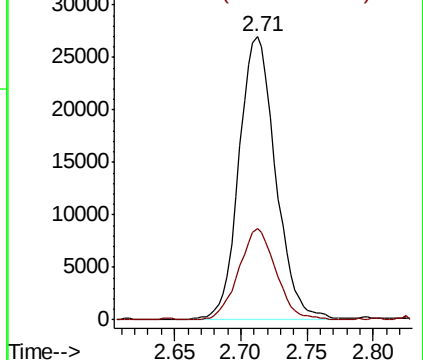
64 100

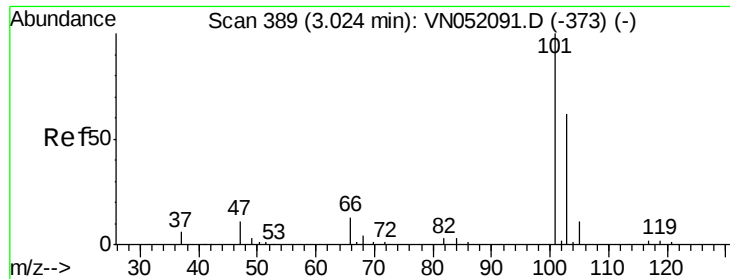
66 32.3 24.7 37.1



Abundance Ion 64.00 (63.70 to 64.70): VNO

Ion 66.00 (65.70 to 66.70): VNO





#7

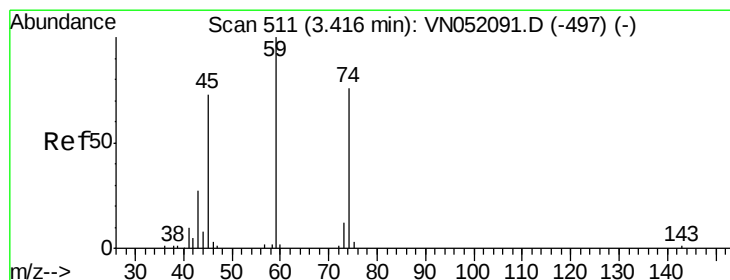
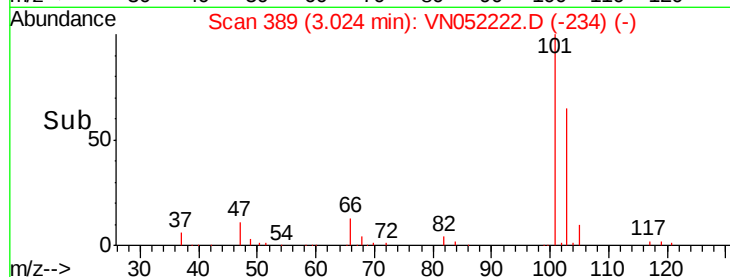
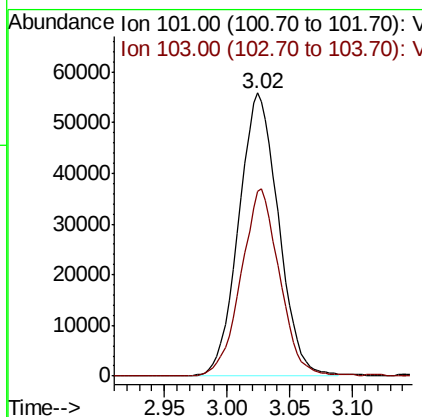
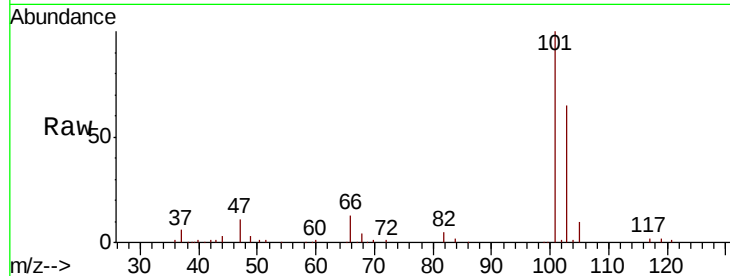
Trichlorofluoromethane
Concen: 20.239 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.3	49.5	74.3

Manual Integrations
APPROVED

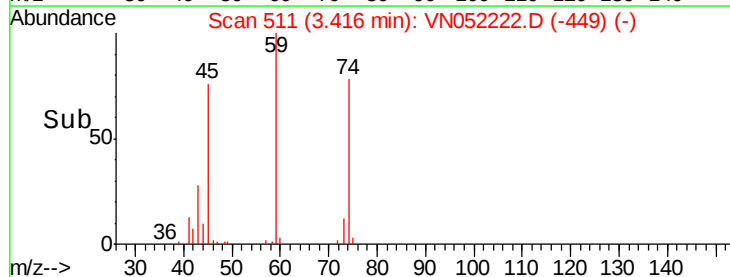
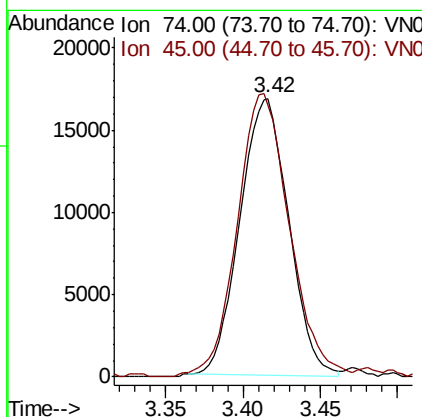
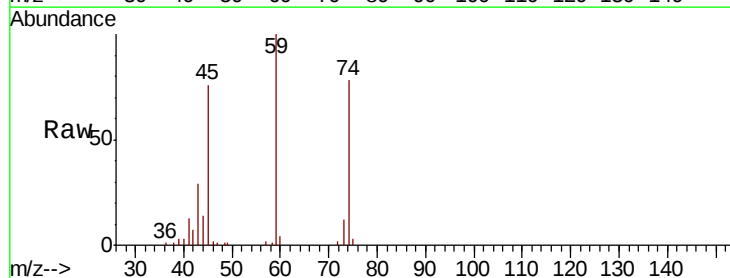
MMDadoda
11/9/2018 1:12:48 PM

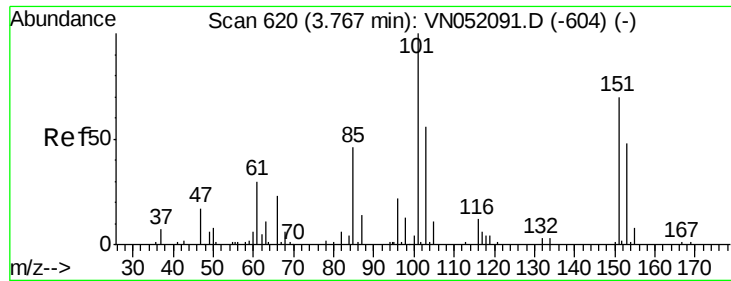


#8

Diethyl Ether
Concen: 17.948 ug/l
RT: 3.42 min Scan# 511
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
74	100		
45	106.3	19.4	174.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.798 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

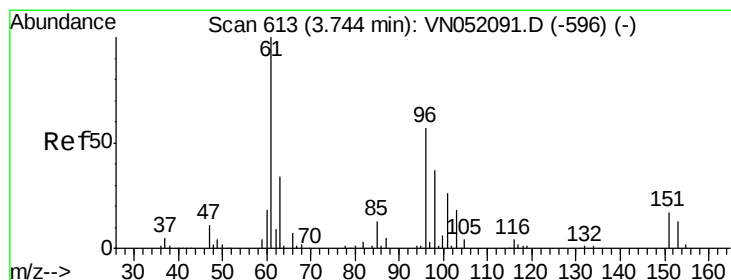
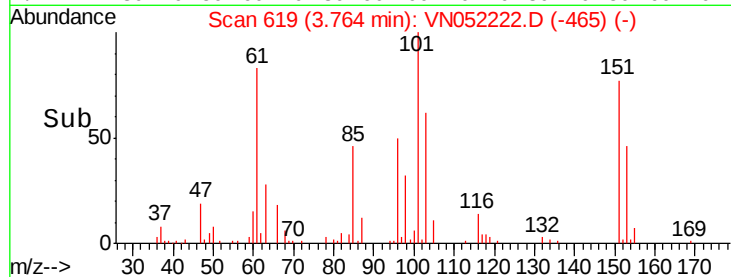
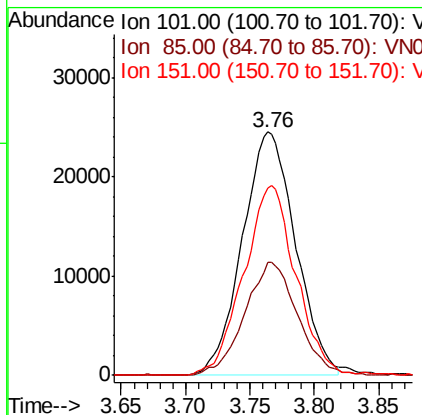
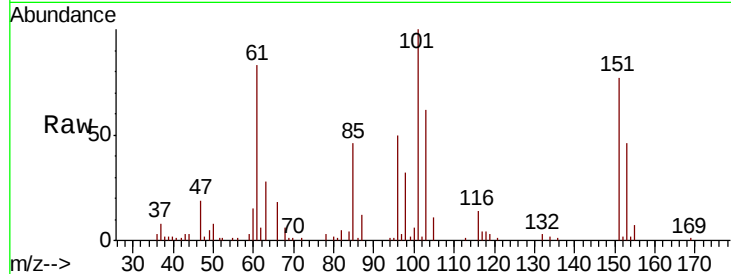
ClientSampleId :

VSTDCCC020EC

Tot Ion:	101	Resp:	70459
Ion Ratio	Lower	Upper	
101	100		
85	46.1	0.0	98.0
151	76.2	0.0	139.6

Manual Integrations
APPROVED

MMDadoda
11/9/2018 1:12:48 PM



#10

1,1-Dichloroethene

Concen: 19.692 ug/l

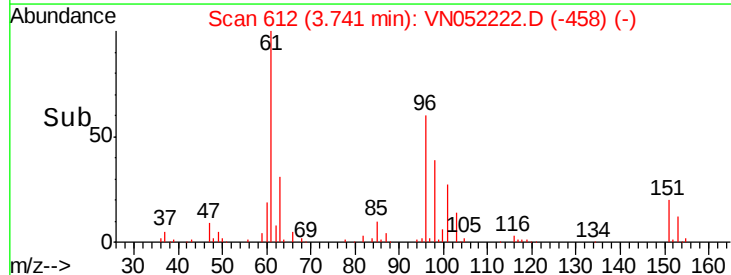
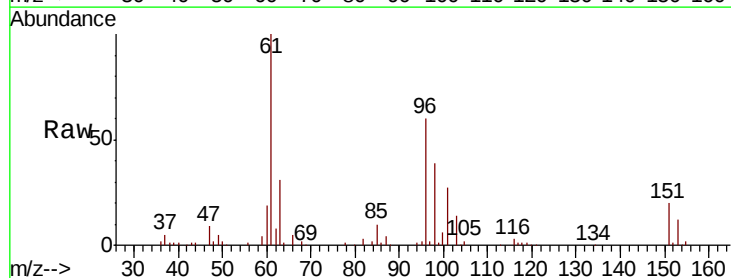
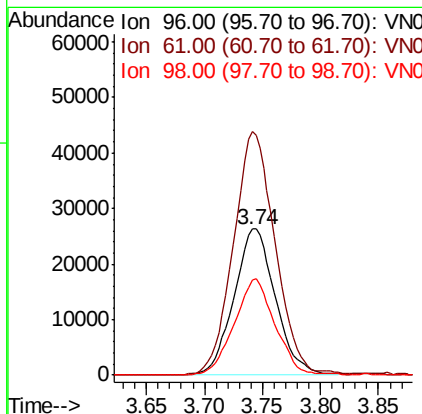
RT: 3.74 min Scan# 612

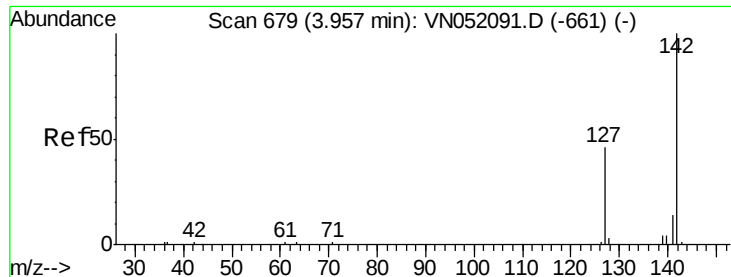
Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Tgt Ion:	96	Resp:	65394
Ion Ratio	Lower	Upper	
96	100		
61	165.9	140.3	210.5
98	64.8	52.0	78.0





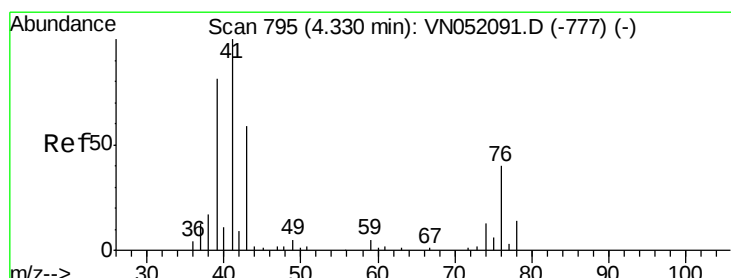
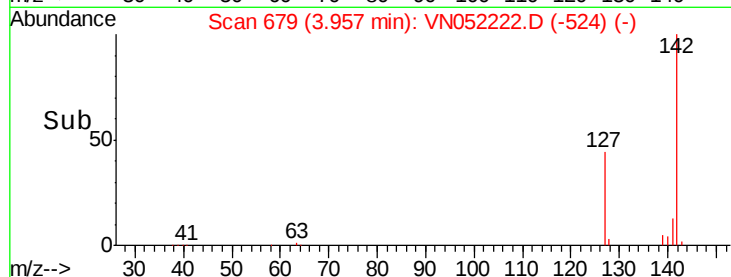
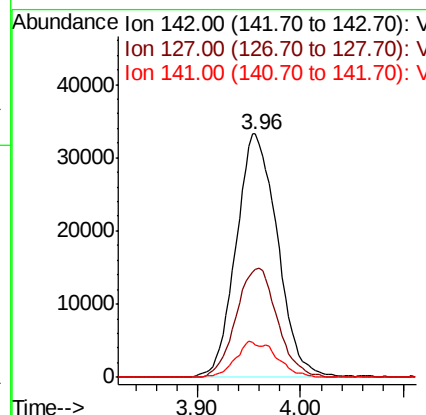
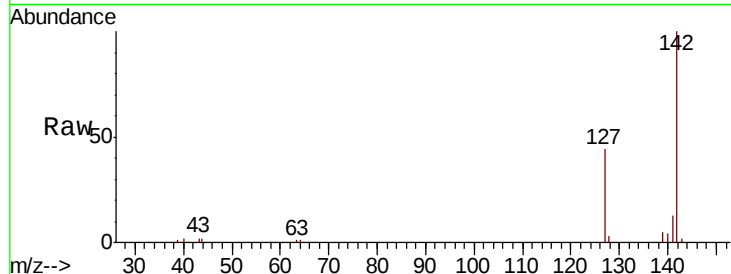
#11
Methyl Iodide
Concen: 19.287 ug/l
RT: 3.96 min Scan# 679
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
142	100		
127	44.4	23.1	69.2
141	12.9	7.0	20.9

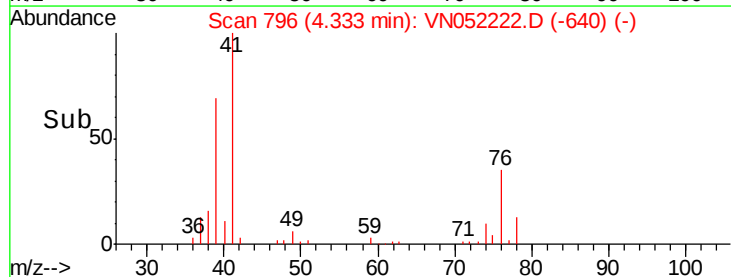
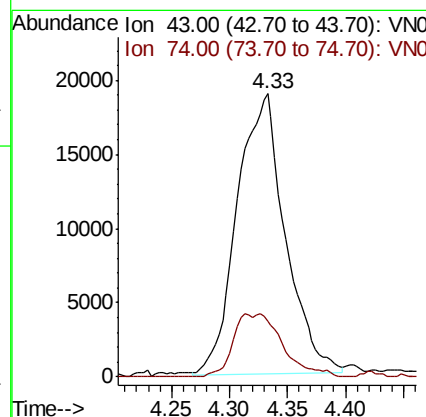
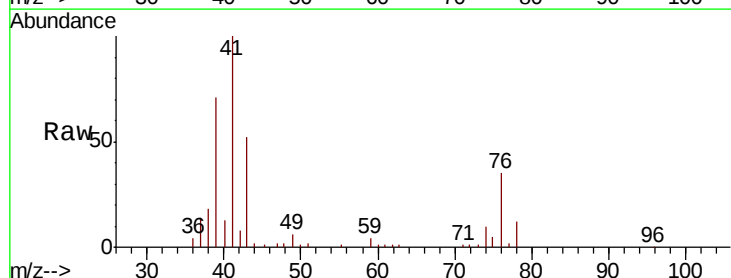
Manual Integrations
APPROVED

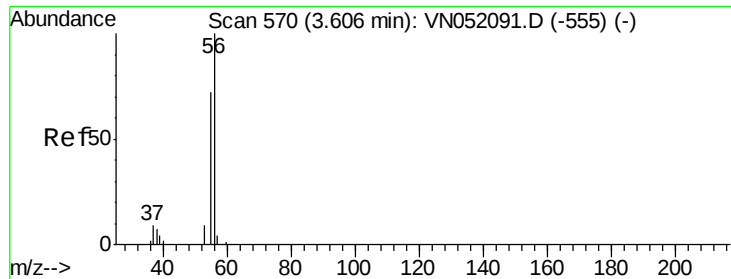
MMDadoda
11/9/2018 1:12:48 PM



#12
Methyl Acetate
Concen: 19.588 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.0	17.4	26.2





#13

Acrolein

Concen: 74.122 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 56 Resp: 21975

Ion Ratio Lower Upper

56 100

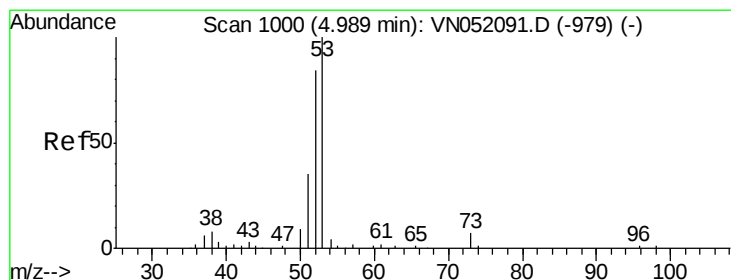
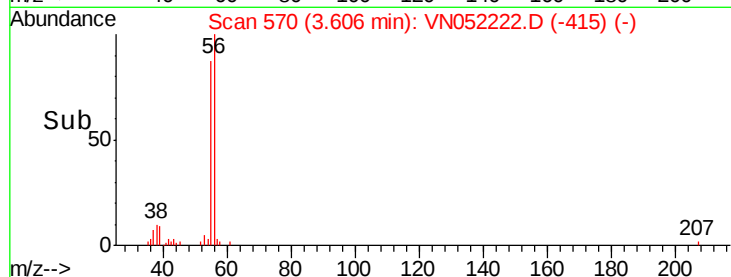
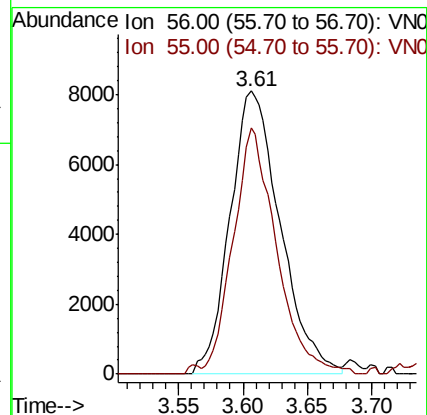
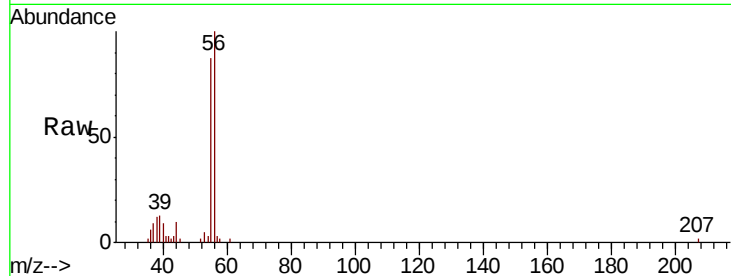
55 72.0 56.2 84.2

Manual Integrations

APPROVED

MMDadoda

11/9/2018 1:12:48 PM



#14

Acrylonitrile

Concen: 90.638 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

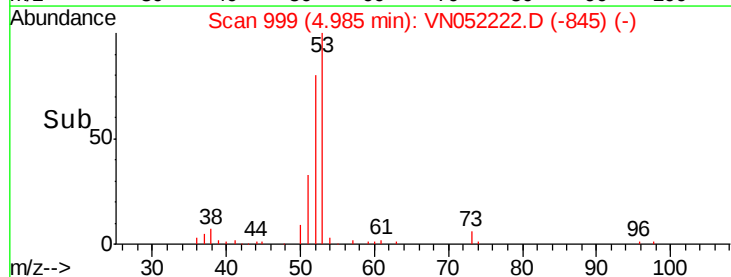
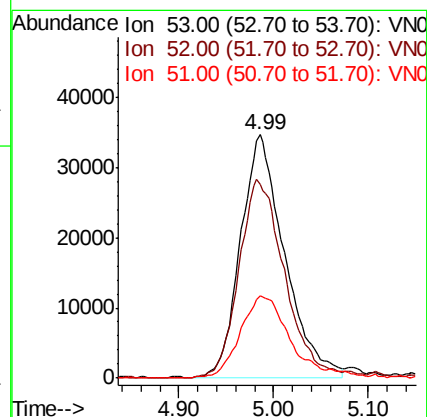
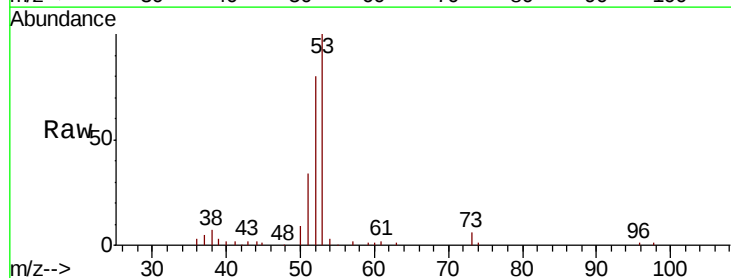
Tgt Ion: 53 Resp: 112349

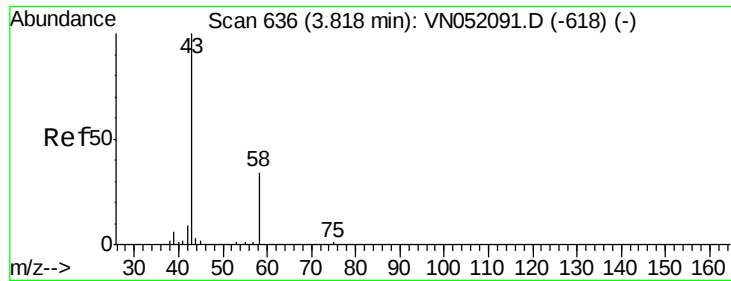
Ion Ratio Lower Upper

53 100

52 84.2 41.3 124.1

51 35.5 18.6 55.6





#15

Acetone

Concen: 98.359 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 58 Resp: 28815

Ion Ratio Lower Upper

58 100

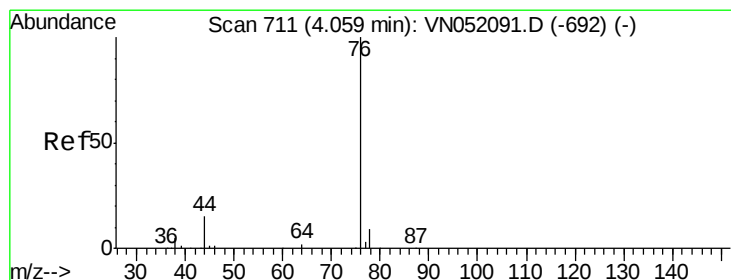
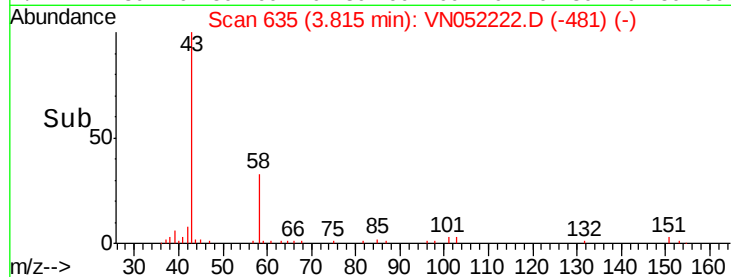
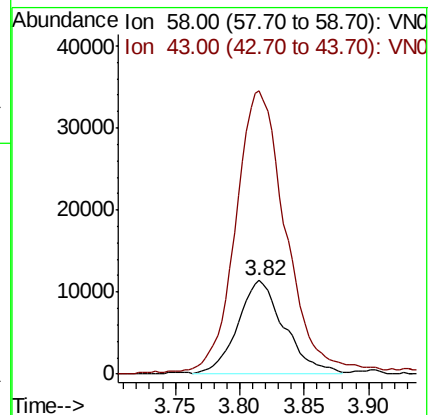
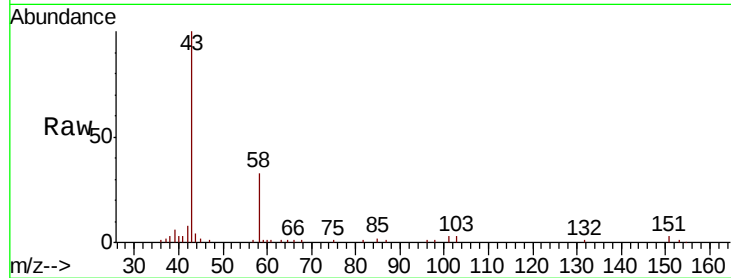
43 297.3 234.7 352.1

Manual Integrations

APPROVED

MMDadoda

11/9/2018 1:12:48 PM



#16

Carbon Disulfide

Concen: 18.113 ug/l

RT: 4.06 min Scan# 711

Delta R.T. -0.00 min

Lab File: VN052222.D

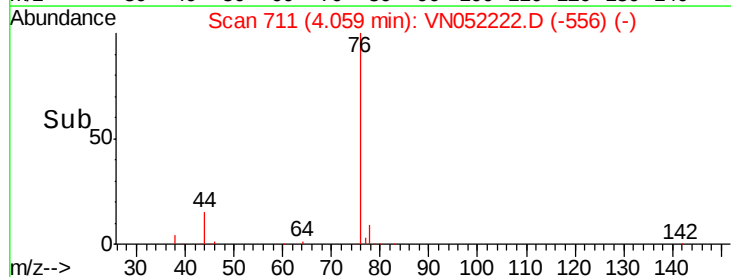
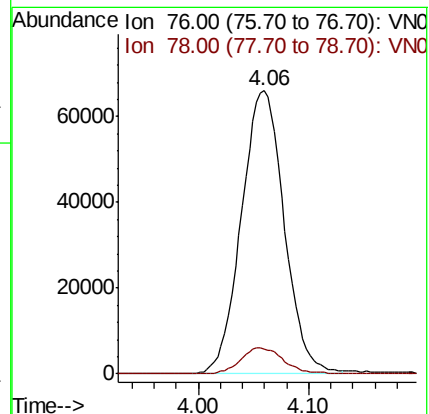
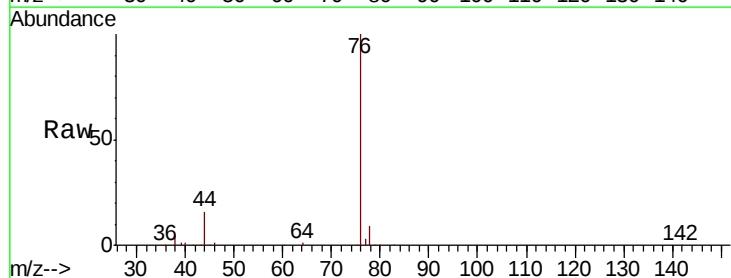
Acq: 8 Nov 2018 16:09

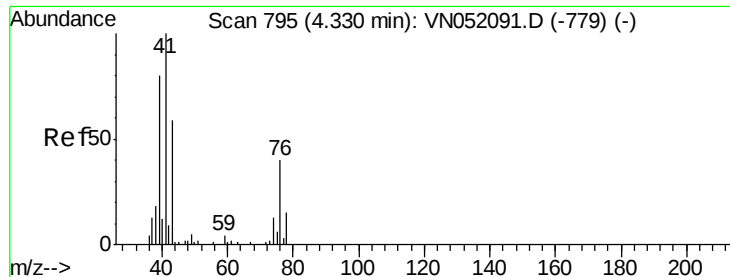
Tgt Ion: 76 Resp: 177596

Ion Ratio Lower Upper

76 100

78 8.9 7.0 10.6





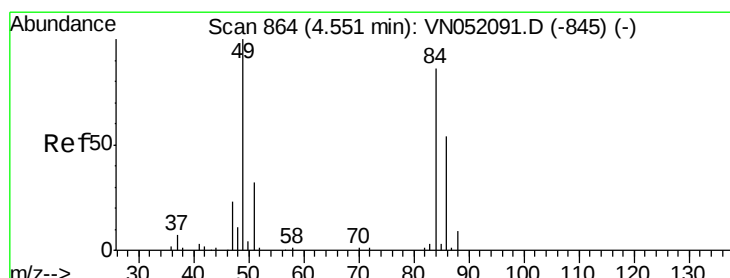
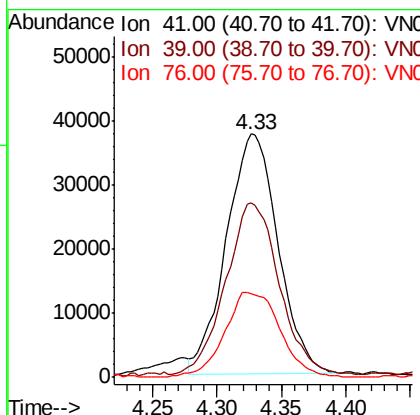
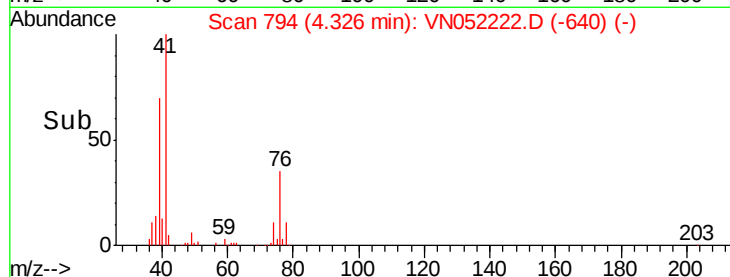
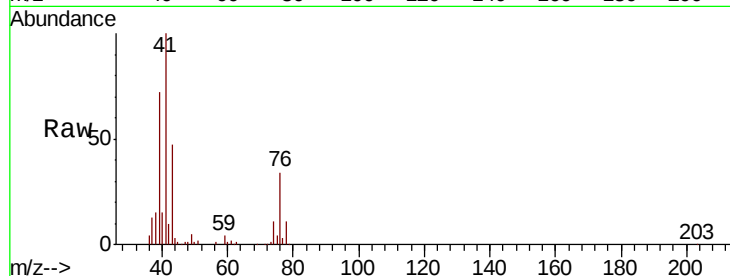
#17
Allvl chloride
Concen: 18.513 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	71.2	38.4	115.1
76	34.5	18.8	56.3

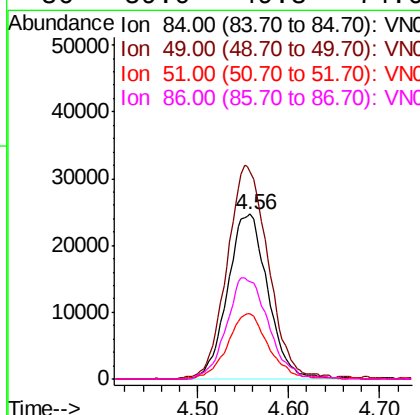
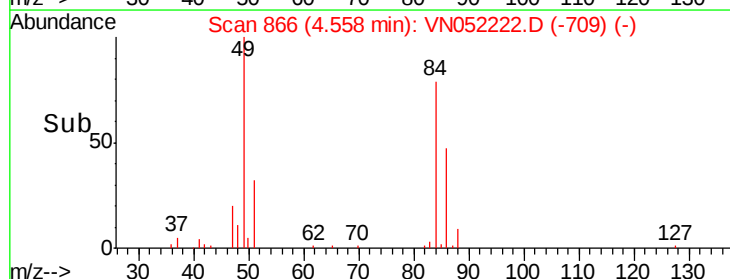
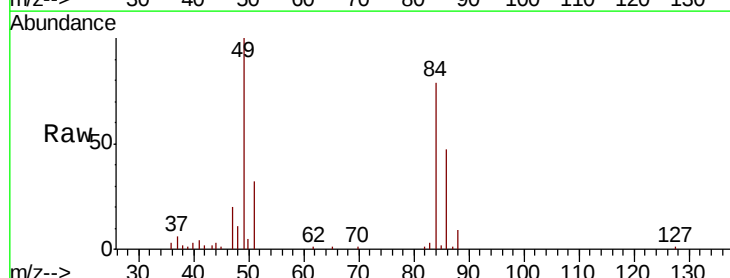
Manual Integrations
APPROVED

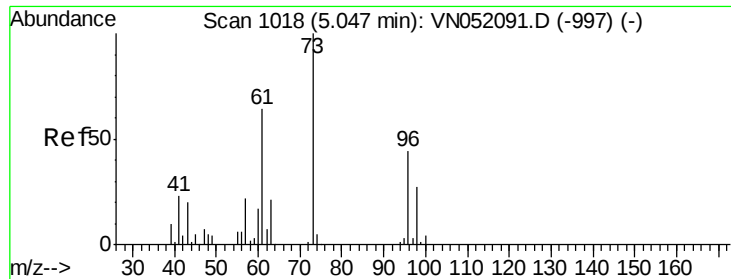
MMDadoda
11/9/2018 1:12:48 PM



#18
Methylene Chloride
Concen: 18.460 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
84	100		
49	124.6	92.6	138.8
51	39.3	29.7	44.5
86	59.0	49.8	74.6





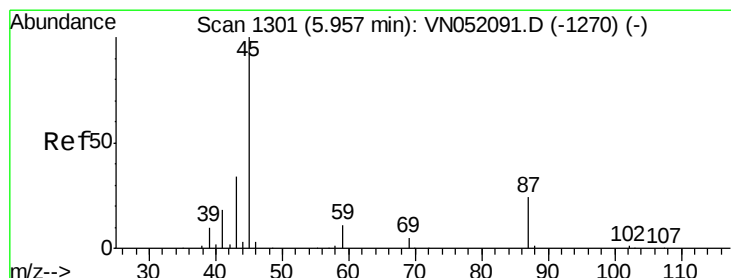
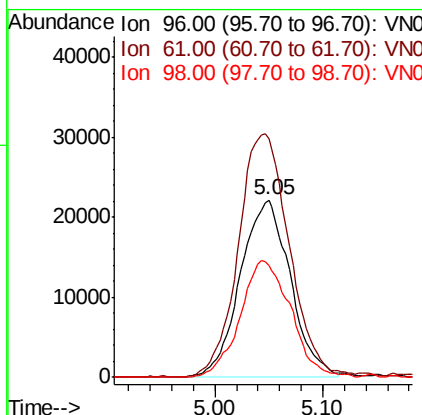
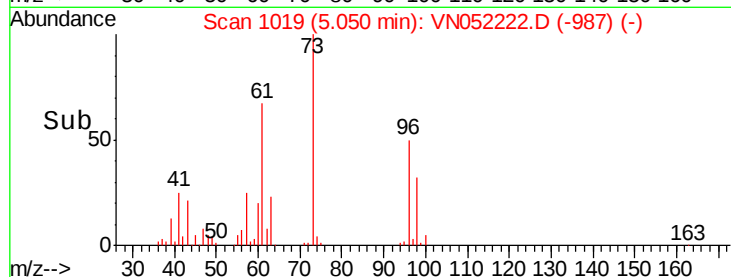
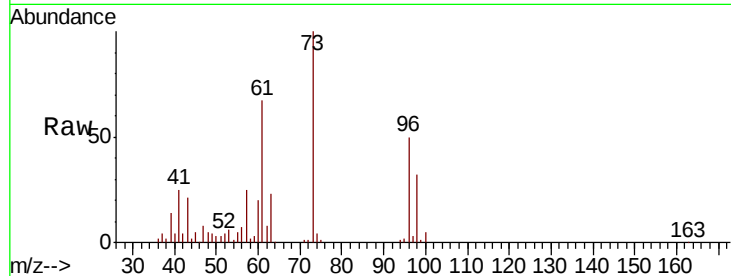
#19
trans-1,2-Dichloroethene
Concen: 19.605 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.0	117.8	176.6
98	63.0	49.3	73.9

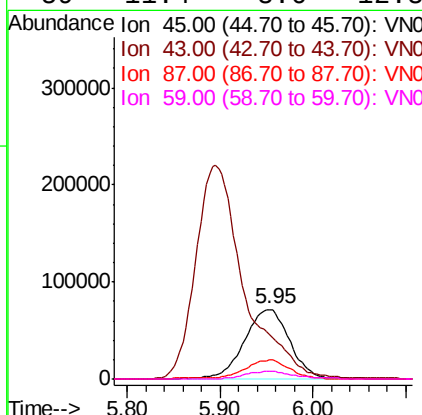
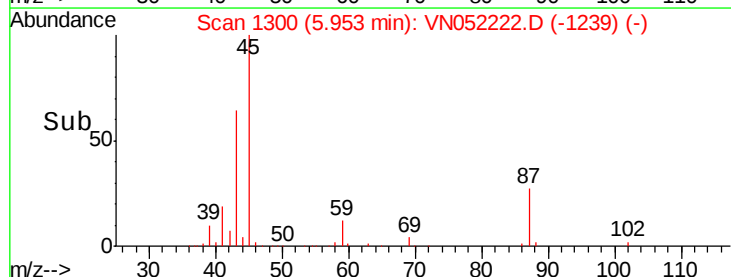
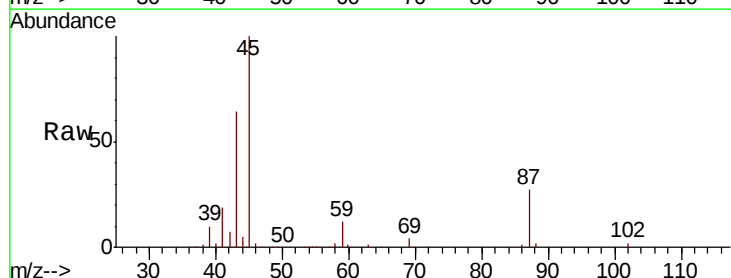
Manual Integrations
APPROVED

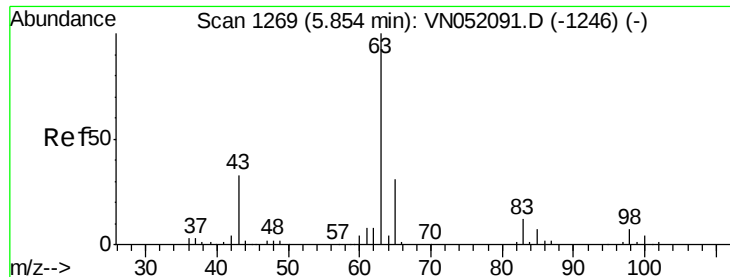
MMDadoda
11/9/2018 1:12:48 PM



#20
Diisopropyl ether
Concen: 19.769 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.9	49.4	74.0
87	27.0	20.3	30.5
59	11.4	8.6	12.8





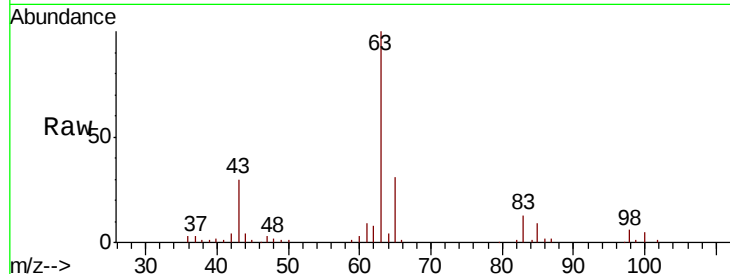
#21
 1,1-Dichloroethane
 Concen: 19.761 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

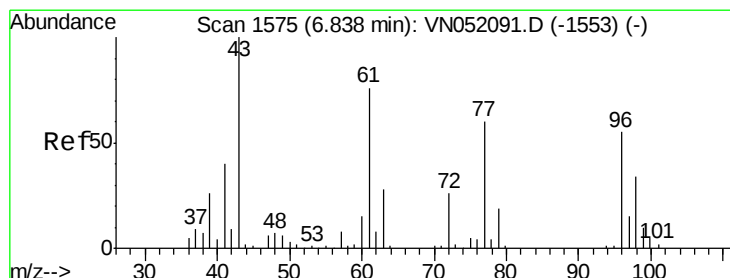
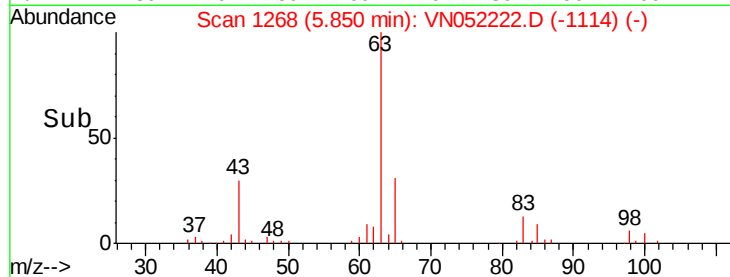
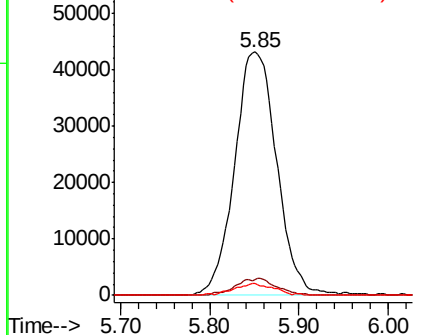
Tot Ion:	63	Resp:	141491
Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.4	10.1
100	4.8	2.0	5.8

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 1:12:48 PM

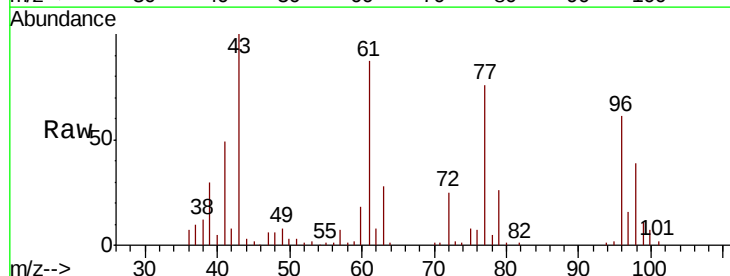


Abundance Ion 63.00 (62.70 to 63.70): VN052091.D (-1246) (-)
 Ion 98.00 (97.70 to 98.70): VN052091.D (-1246) (-)
 Ion 100.00 (99.70 to 100.70): VN052091.D (-1246) (-)

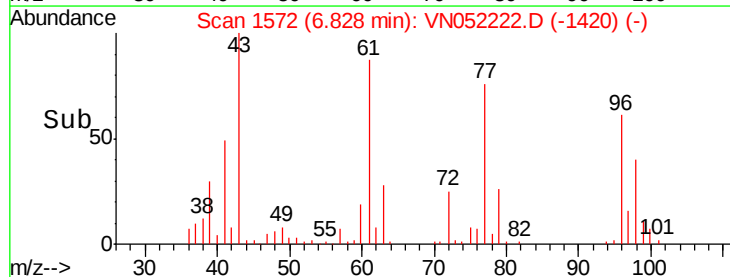
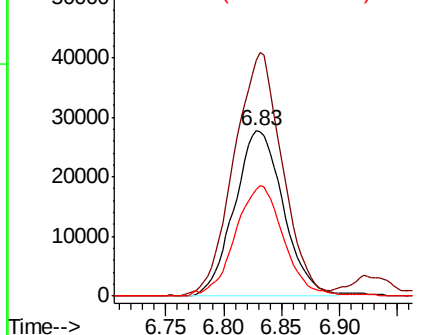


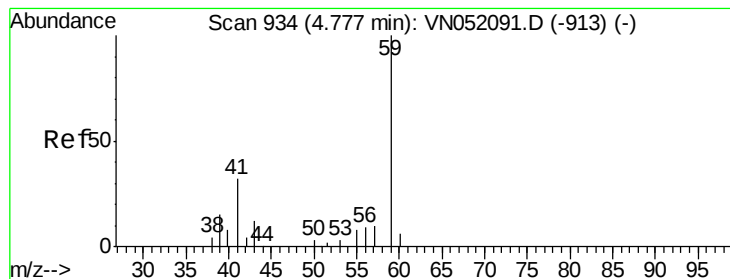
#22
 cis-1,2-Dichloroethene
 Concen: 19.173 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion:	96	Resp:	81461
Ion	Ratio	Lower	Upper
96	100		
61	145.3	117.6	176.4
98	65.2	51.0	76.4



Abundance Ion 96.00 (95.70 to 96.70): VN052091.D (-1553) (-)
 Ion 61.00 (60.70 to 61.70): VN052091.D (-1553) (-)
 Ion 98.00 (97.70 to 98.70): VN052091.D (-1553) (-)





#23

tert-Butyl Alcohol

Concen: 90.764 ug/l

RT: 4.78 min Scan# 934

Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 59 Resp: 17529

Ion Ratio Lower Upper

59 100

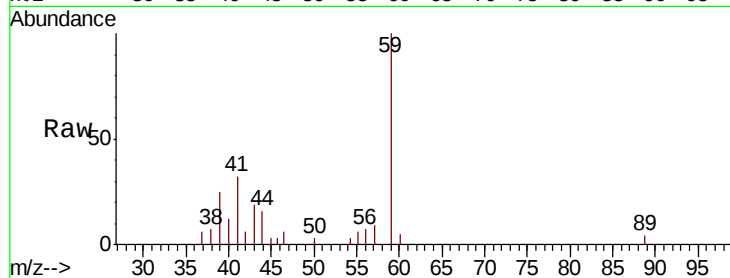
52 0.0 0.3 0.5#

Manual Integrations

APPROVED

MMDadoda

11/9/2018 1:12:48 PM



Abundance Ion 59.00 (58.70 to 59.70): VN052091.D (-913) (-)

Ion 52.00 (51.70 to 52.70): VN052091.D (-913) (-)

25000

20000

15000

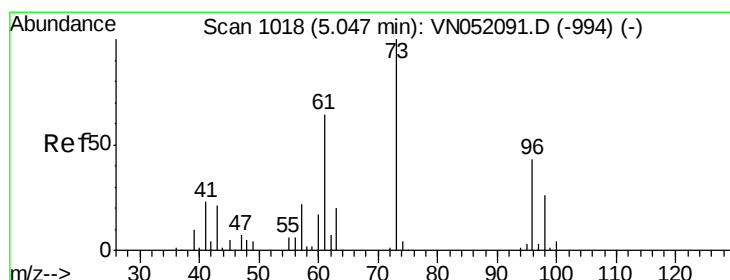
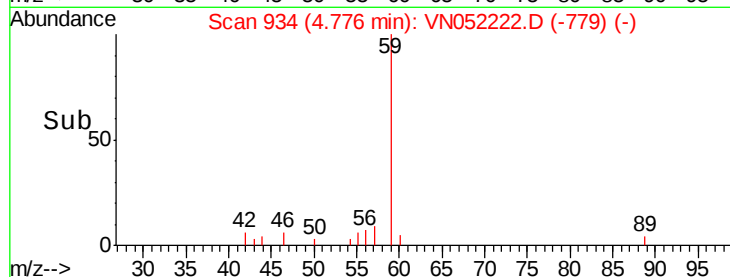
10000

5000

0

4.60 4.70 4.80 4.90

Time-->



#24

Methyl tert-Butyl Ether

Concen: 18.398 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN052222.D

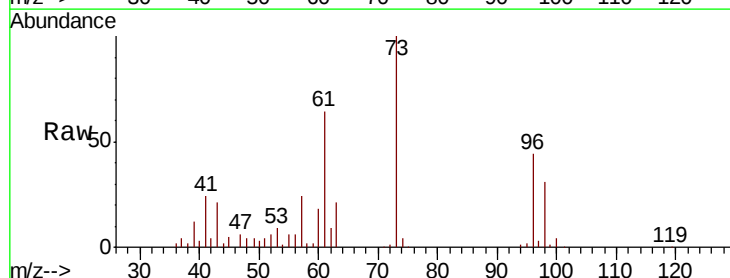
Acq: 8 Nov 2018 16:09

Tgt Ion: 73 Resp: 173204

Ion Ratio Lower Upper

73 100

43 18.9 17.4 26.2



Abundance Ion 73.00 (72.70 to 73.70): VN052091.D (-994) (-)

Ion 43.00 (42.70 to 43.70): VN052091.D (-994) (-)

50000

40000

30000

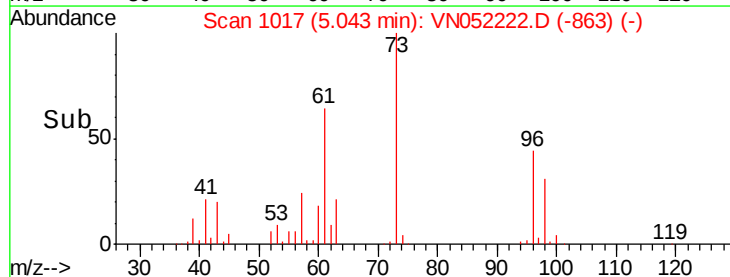
20000

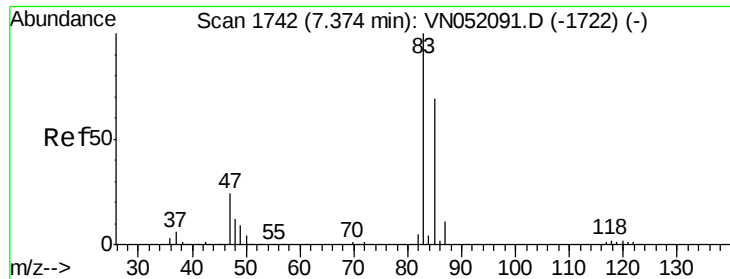
10000

0

4.90 5.00 5.10

Time-->





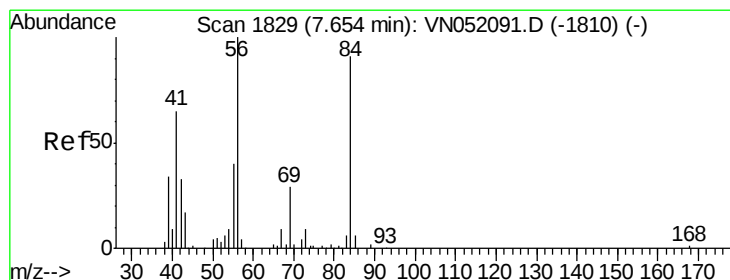
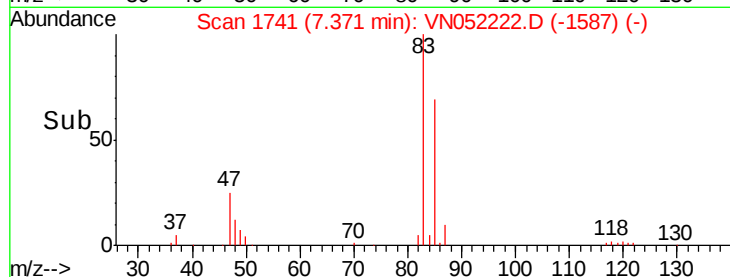
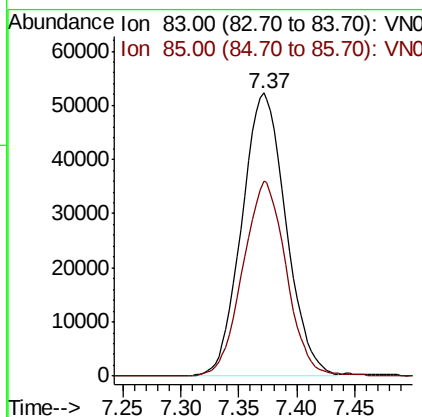
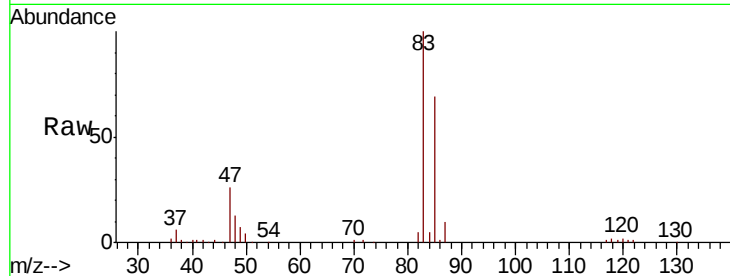
#25
Chloroform
Concen: 19.284 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	83	Resp	138644
Ion Ratio	100	Lower	Upper
83	100		
85	69.0	54.9	82.3

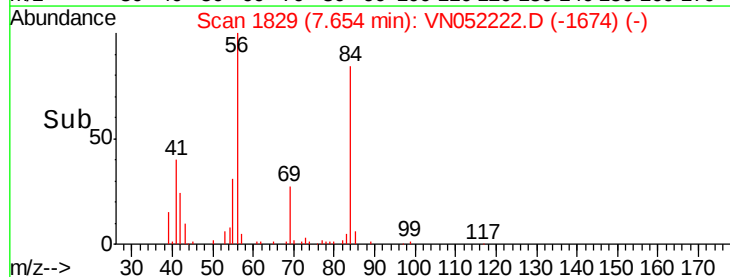
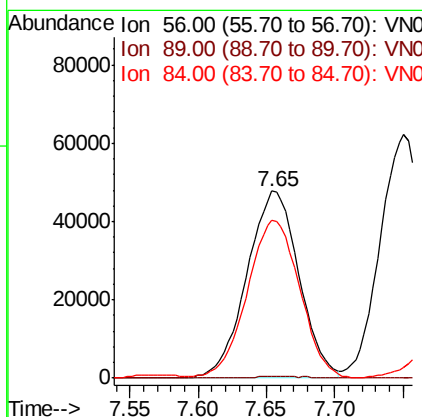
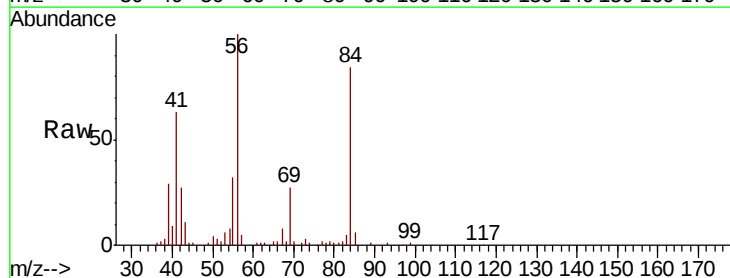
Manual Integrations
APPROVED

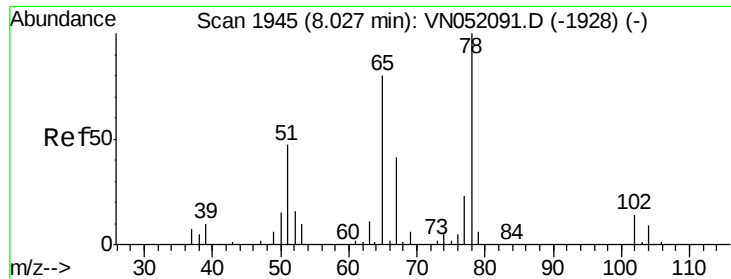
MMDadoda
11/9/2018 1:12:48 PM



#26
Cyclohexane
Concen: 19.677 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	56	Resp	126299
Ion Ratio	100	Lower	Upper
56	100		
89	0.3	2.2	3.2#
84	85.5	71.0	106.6





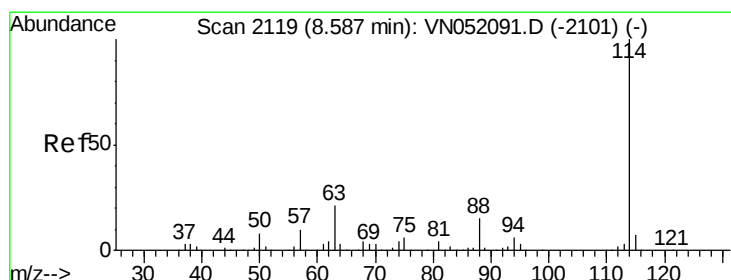
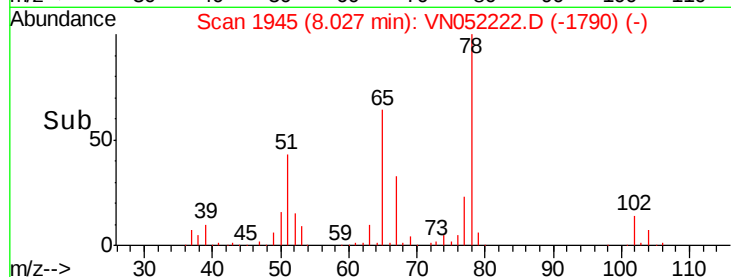
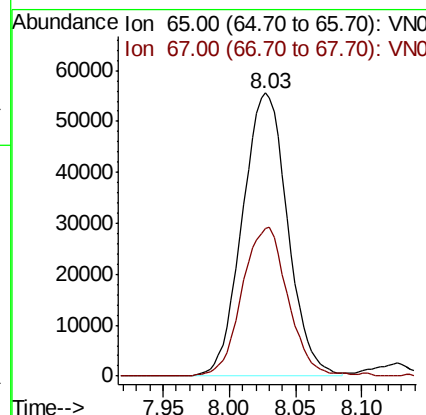
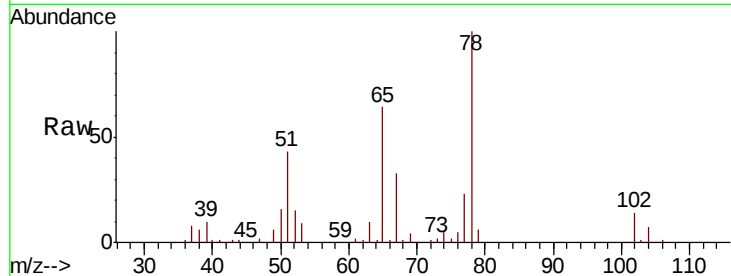
#27
 1,2-Dichloroethane-d4
 Concen: 19.677 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.0	42.6	64.0

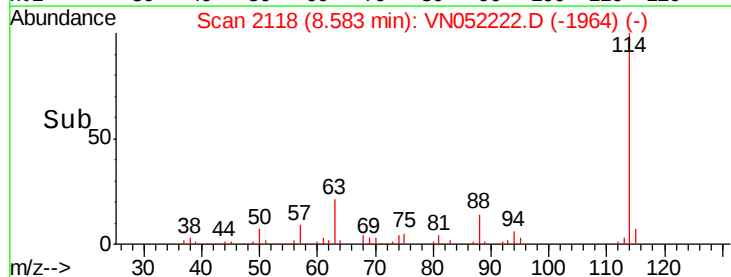
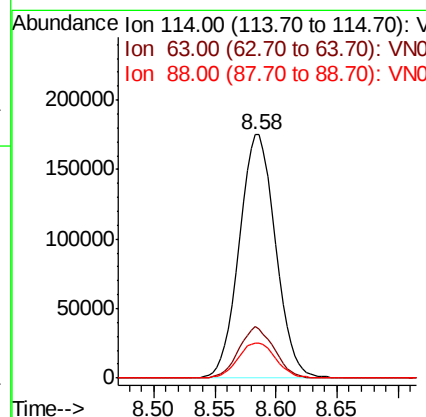
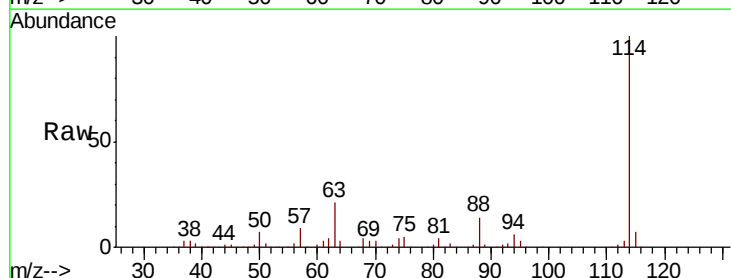
Manual Integrations
 APPROVED

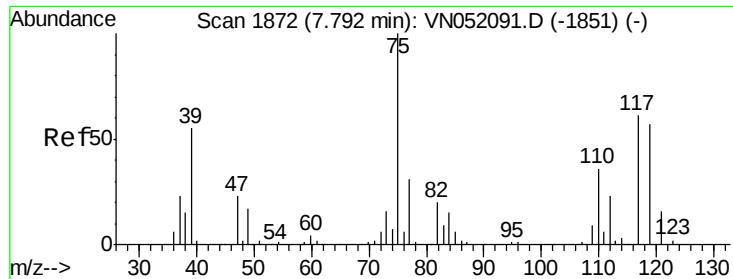
MMDadoda
 11/9/2018 1:12:48 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.5	17.5	26.3
88	15.0	12.6	18.8





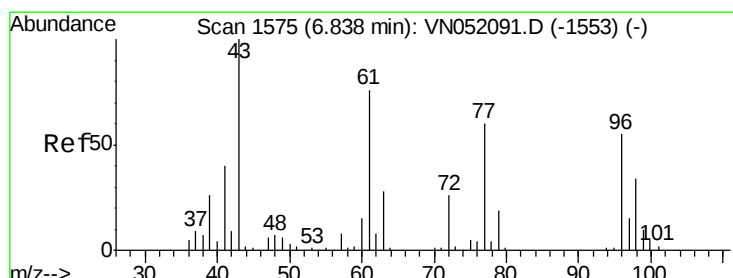
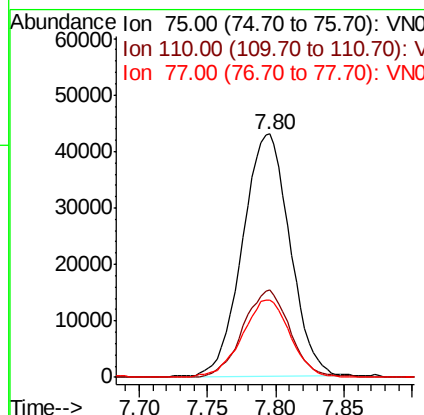
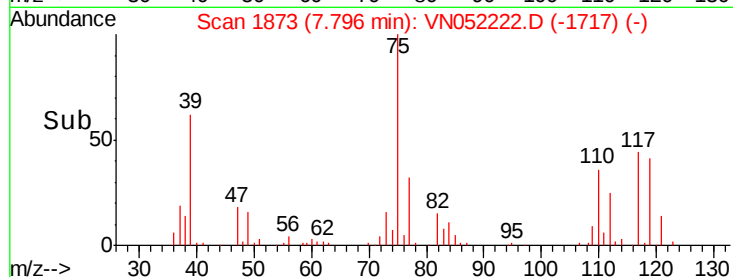
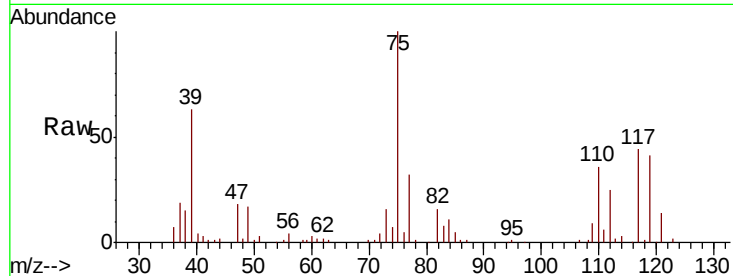
#29
 1,1-Dichloropropene
 Concen: 17.993 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.9	0.0	67.6	
77	32.5	0.0	60.2	

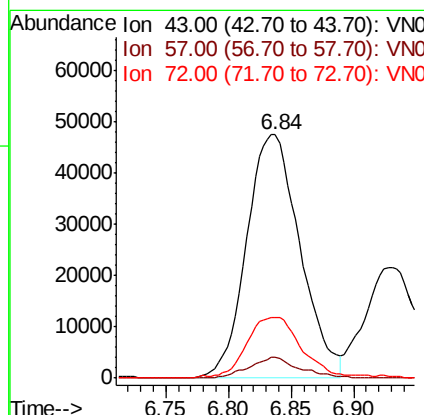
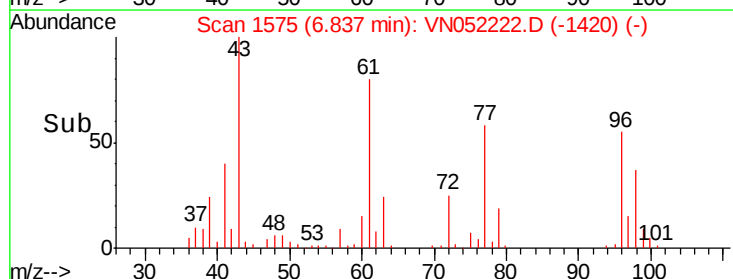
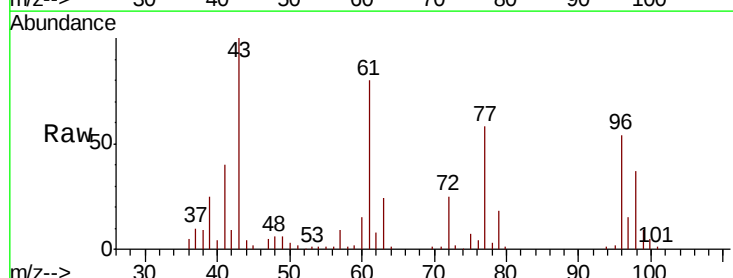
Manual Integrations
 APPROVED

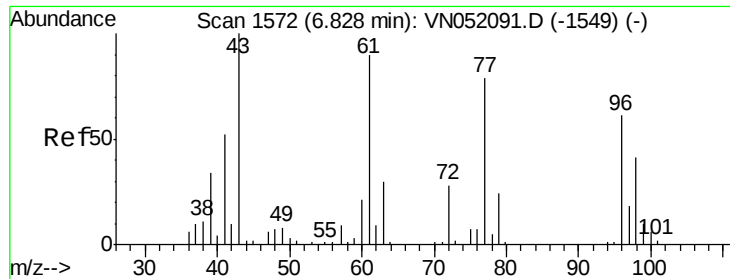
MMDadoda
 11/9/2018 1:12:48 PM



#30
 2-Butanone
 Concen: 92.318 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
57	6.8	6.6	9.8	
72	24.2	9.2	13.8	





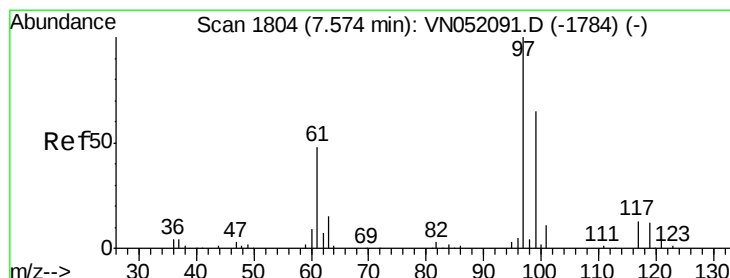
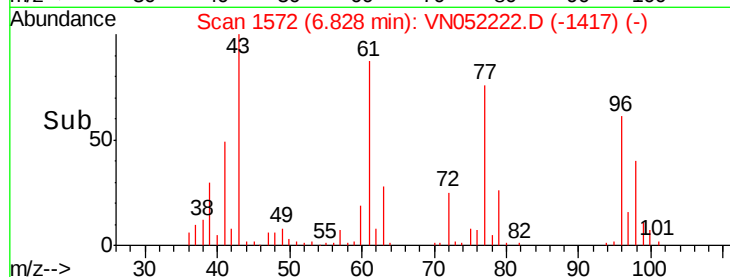
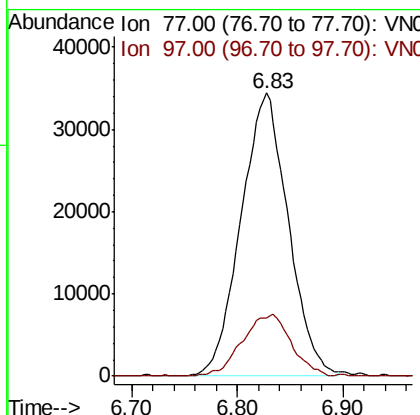
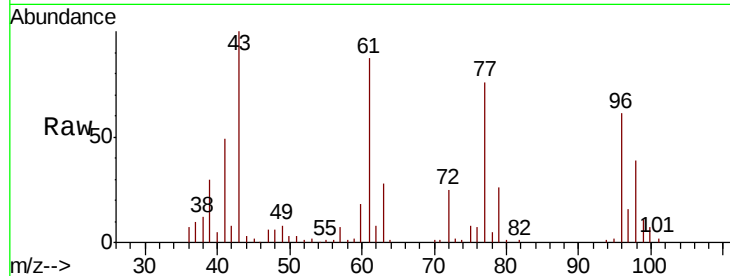
#31
 2,2-Dichloropropane
 Concen: 18.143 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 77 Resp: 107342
 Ion Ratio Lower Upper
 77 100
 97 10.7 18.2 27.2#

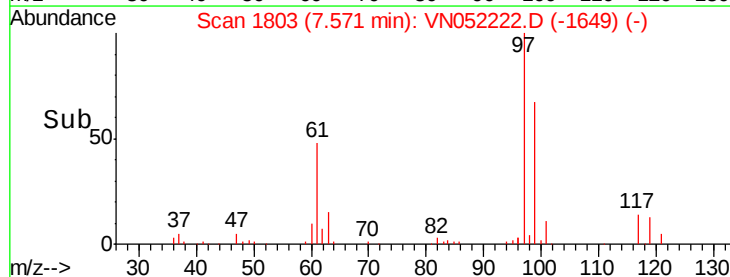
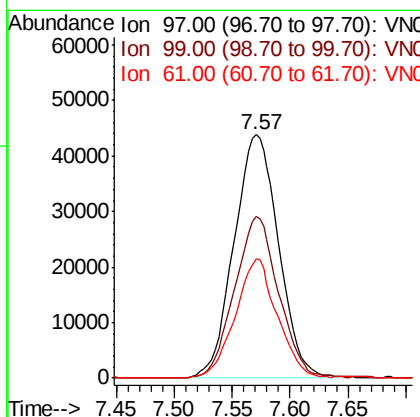
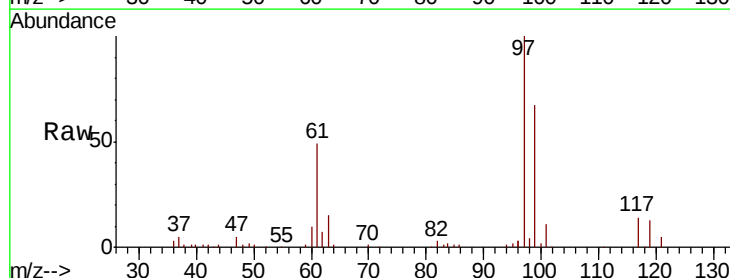
Manual Integrations
 APPROVED

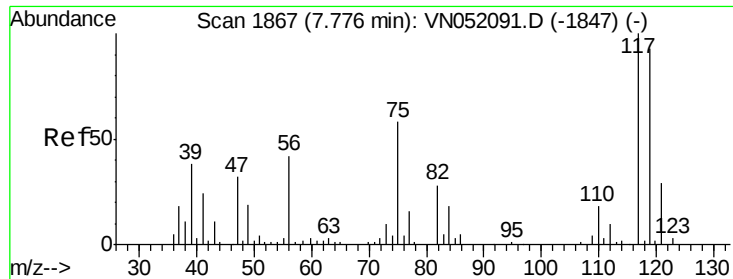
MMDadoda
 11/9/2018 1:12:48 PM



#32
 1,1,1-Trichloroethane
 Concen: 18.179 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion: 97 Resp: 116824
 Ion Ratio Lower Upper
 97 100
 99 65.8 51.7 77.5
 61 46.3 38.7 58.1





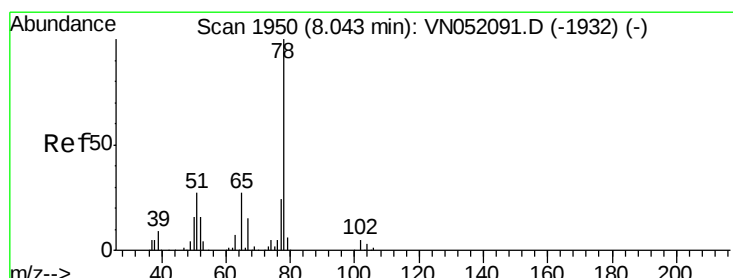
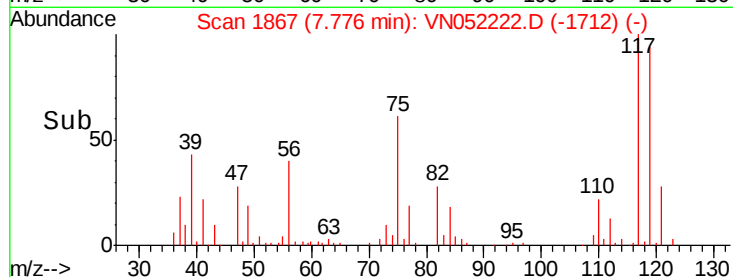
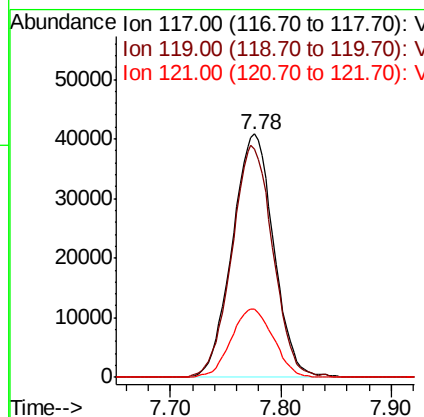
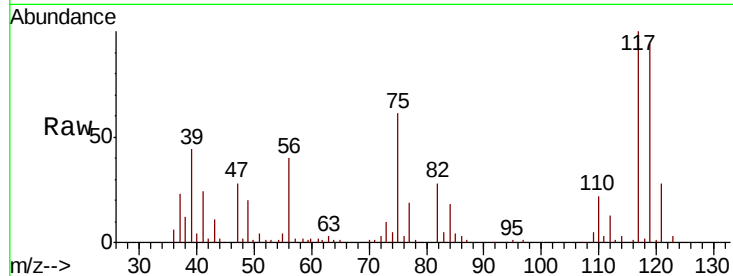
#33
Carbon Tetrachloride
Concen: 18.591 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.7	74.7	112.1
121	28.0	23.4	35.0

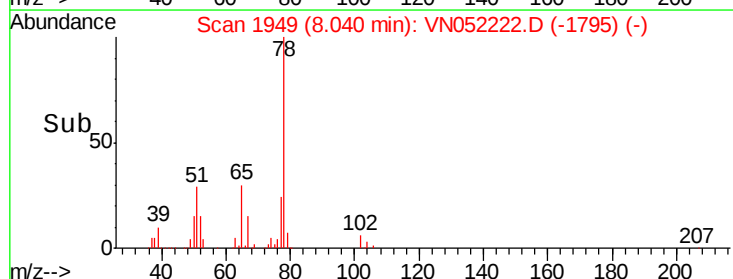
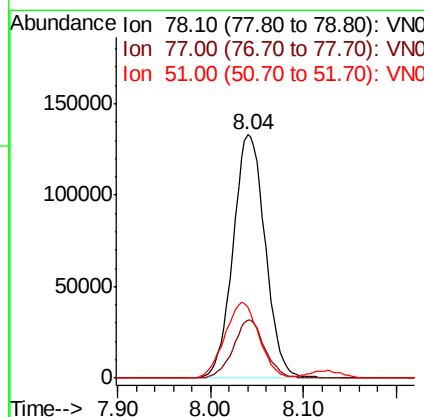
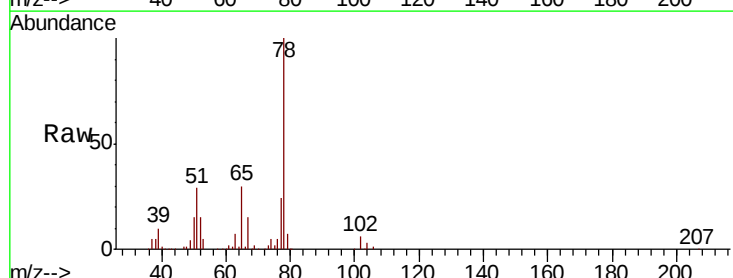
Manual Integrations
APPROVED

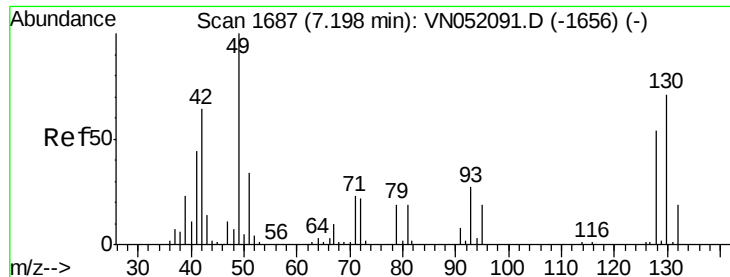
MMDadoda
11/9/2018 1:12:48 PM



#34
Benzene
Concen: 19.016 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.1	28.7
51	28.8	21.2	31.8





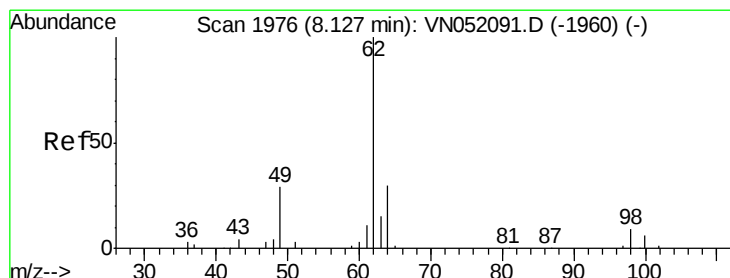
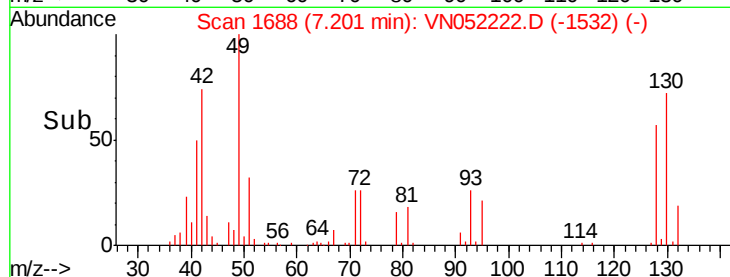
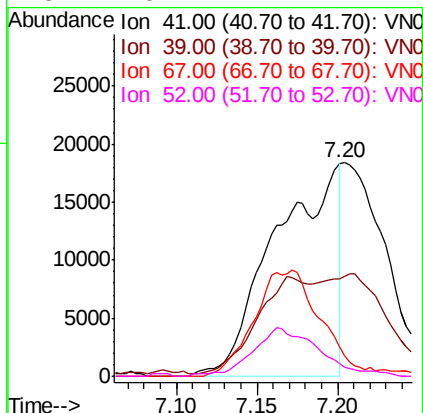
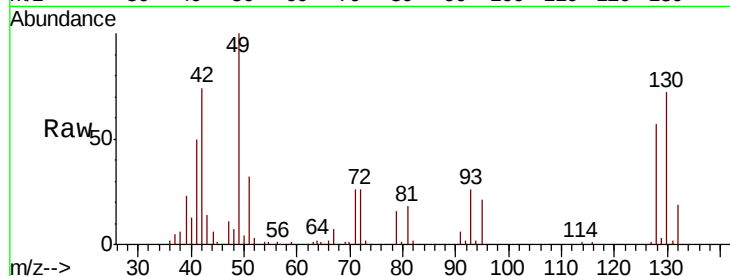
#35
Methacrylonitrile
Concen: 24.056 ug/l m
RT: 7.20 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	41	Resp	50468
Ion	Ratio	Lower	Upper
41	100		
39	45.8	26.1	78.3
67	13.8	11.0	33.0
52	6.1	4.7	14.1

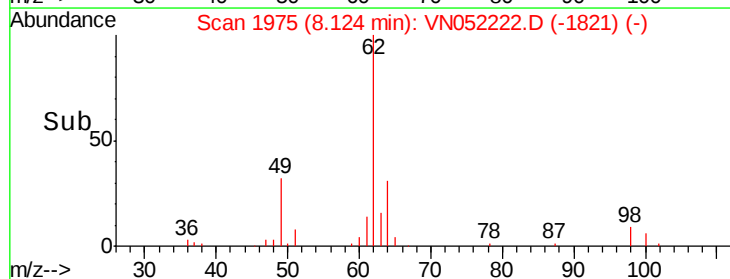
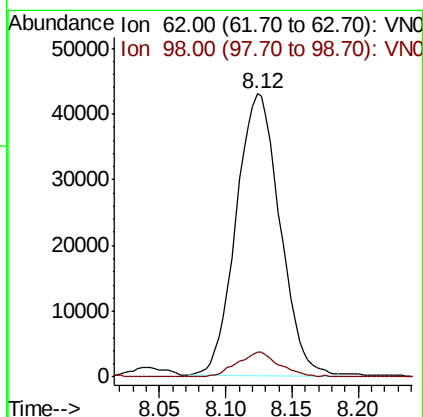
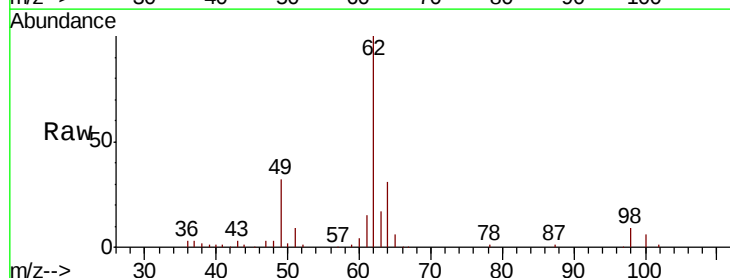
Manual Integrations
APPROVED

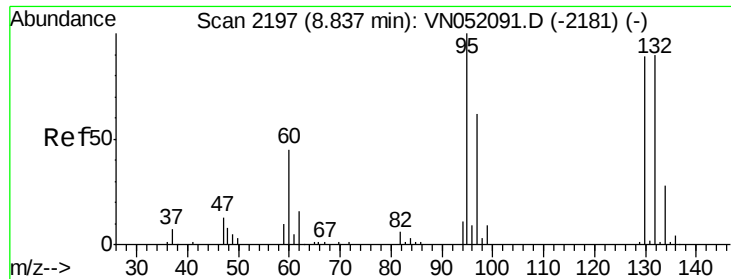
MMDadoda
11/9/2018 1:12:48 PM



#36
1,2-Dichloroethane
Concen: 17.563 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	62	Resp	98752
Ion	Ratio	Lower	Upper
62	100		
98	8.4	6.7	10.1





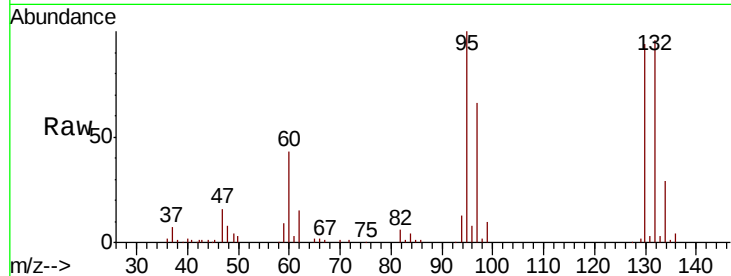
#37
 Trichloroethene
 Concen: 18.809 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

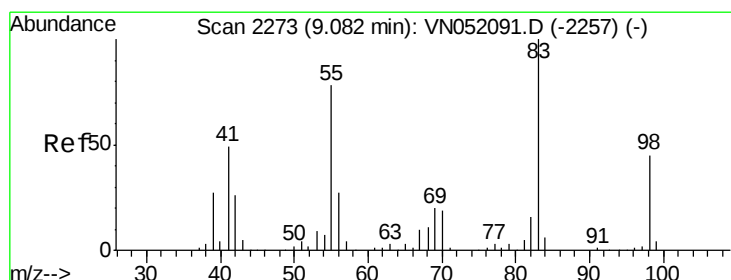
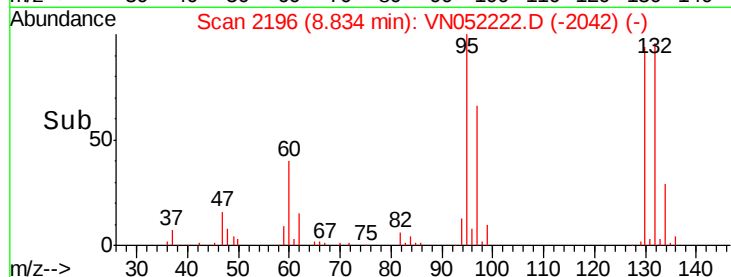
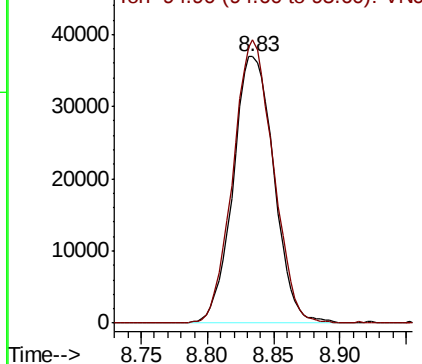
Tot Ion:130 Resp: 79169
 Ion Ratio Lower Upper
 130 100
 95 106.2 89.9 134.9

Manual Integrations
 APPROVED

MMDadoda
 11/9/2018 1:12:48 PM

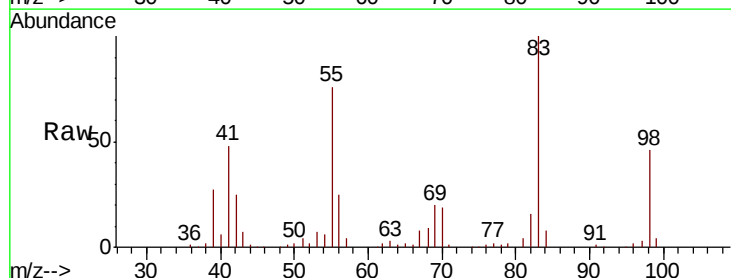


Abundance Ion 129.90 (129.60 to 130.60): VN052091.D (-2181) (-)
 Ion 94.90 (94.60 to 95.60): VN052091.D (-2181) (-)

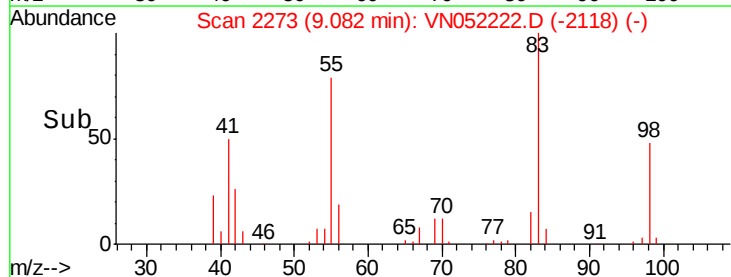
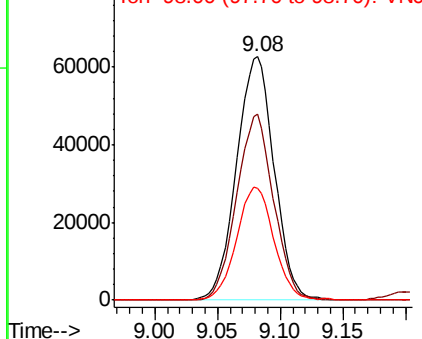


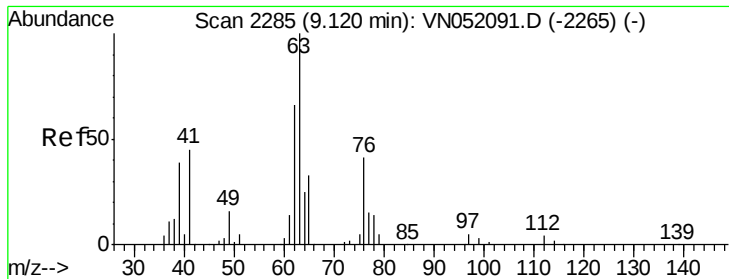
#38
 Methylcyclohexane
 Concen: 18.673 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion: 83 Resp: 130829
 Ion Ratio Lower Upper
 83 100
 55 74.8 38.5 115.3
 98 45.9 23.2 69.6



Abundance Ion 83.00 (82.70 to 83.70): VN052091.D (-2257) (-)
 Ion 55.00 (54.70 to 55.70): VN052091.D (-2257) (-)
 Ion 98.00 (97.70 to 98.70): VN052091.D (-2257) (-)





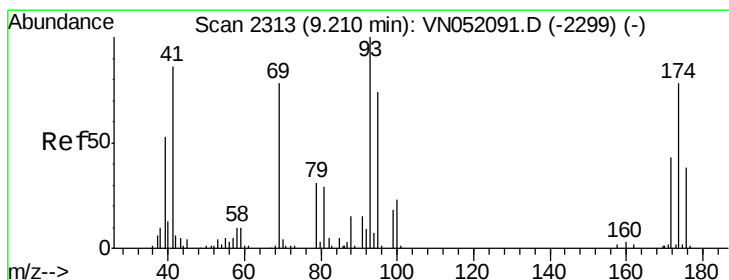
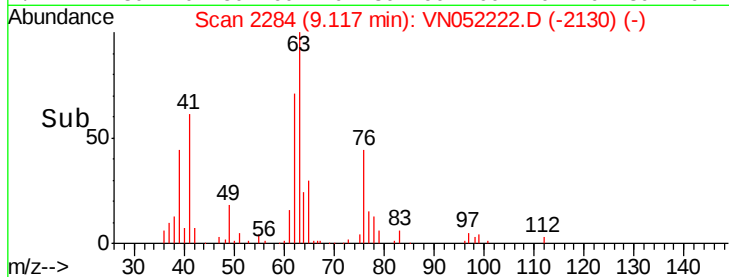
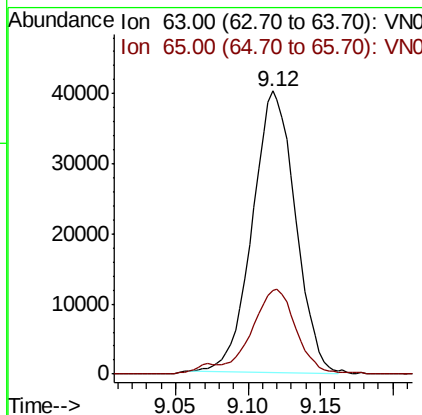
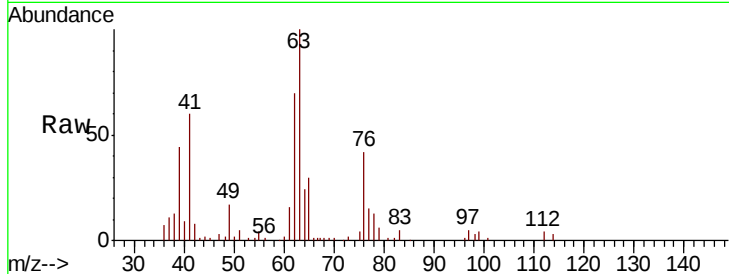
#39
 1,2-Dichloropropane
 Concen: 18.567 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.2	27.3	40.9

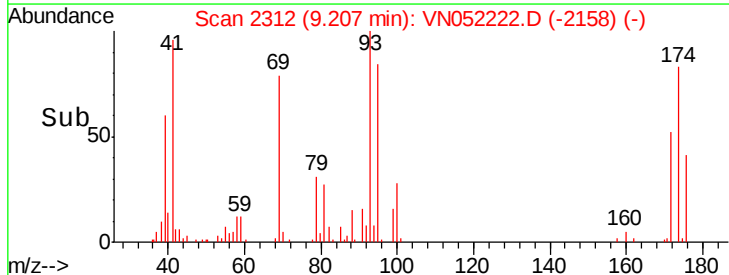
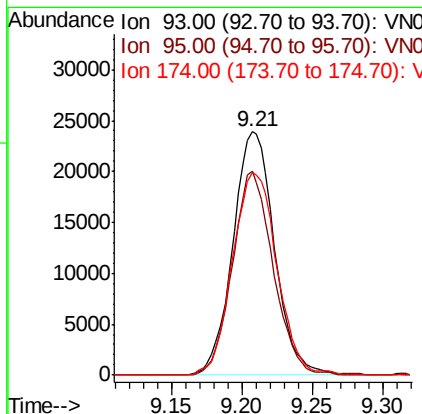
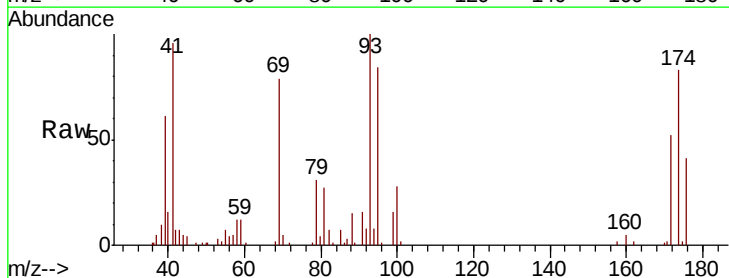
Manual Integrations
 APPROVED

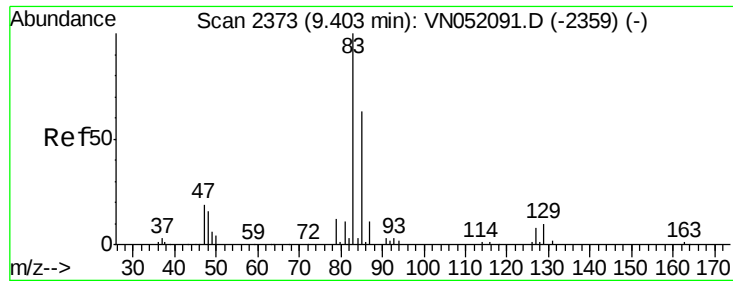
MMDadoda
 11/9/2018 1:12:48 PM



#40
 Dibromomethane
 Concen: 17.840 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
93	100		
95	81.4	0.0	161.2
174	88.8	0.0	165.0





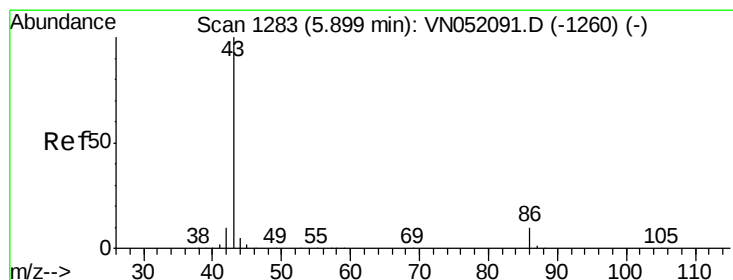
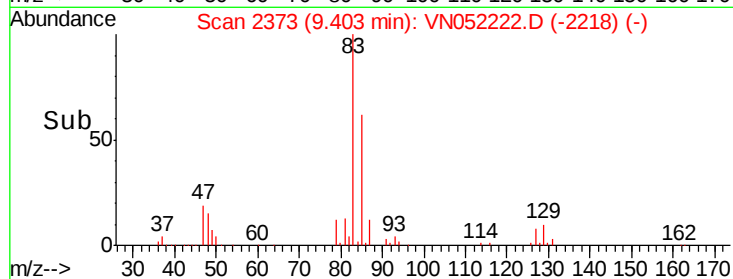
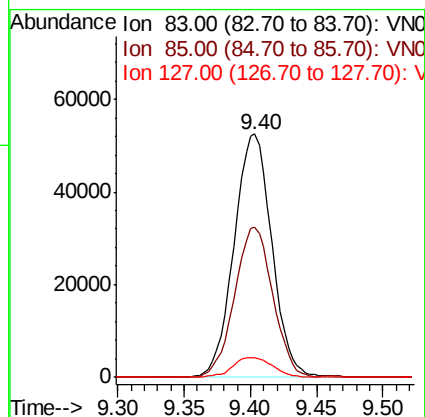
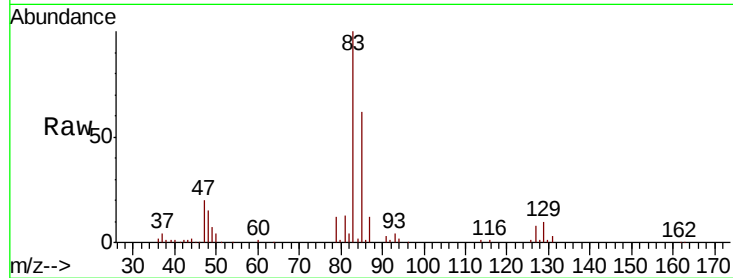
#41
 Bromodichloromethane
 Concen: 18.392 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
83	100		
85	61.6	50.2	75.2
127	7.9	6.6	10.0

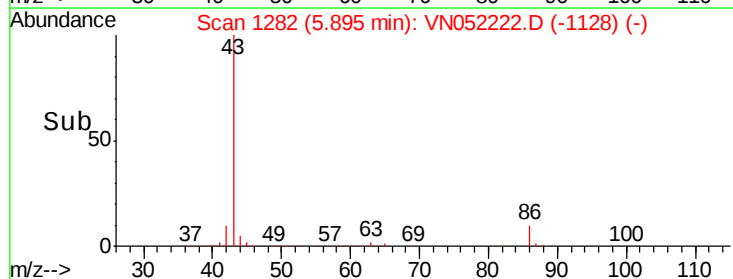
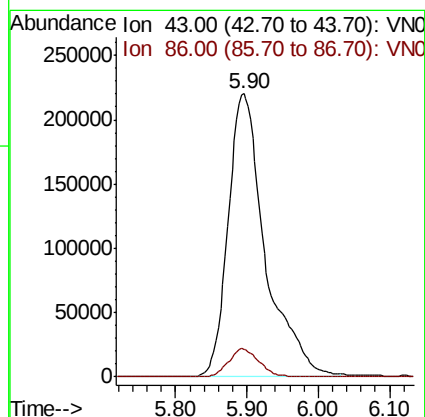
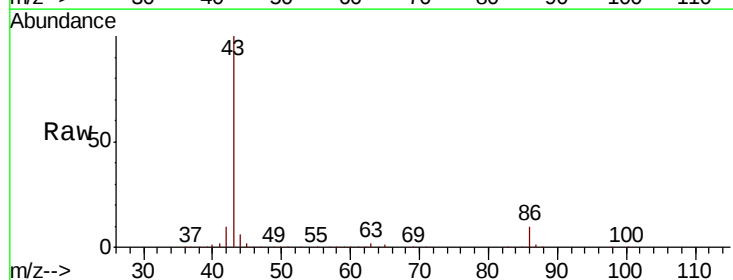
Manual Integrations
 APPROVED

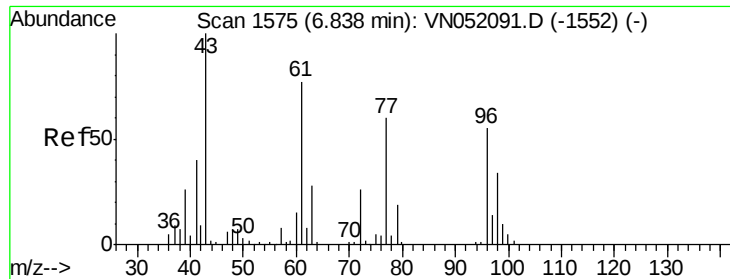
MMDadoda
 11/9/2018 1:12:48 PM



#42
 Vinyl Acetate
 Concen: 88.924 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.6	10.0





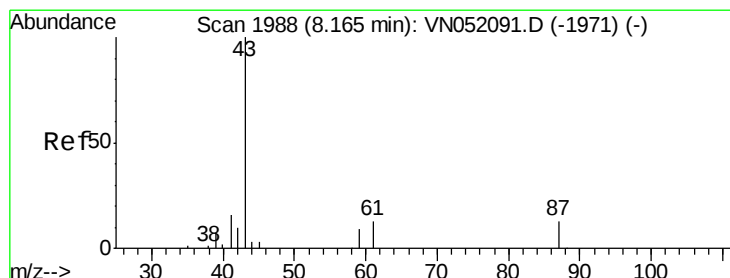
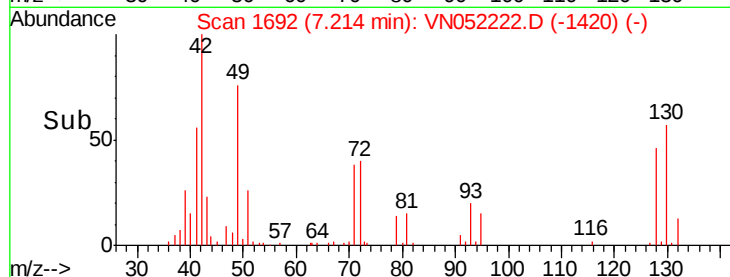
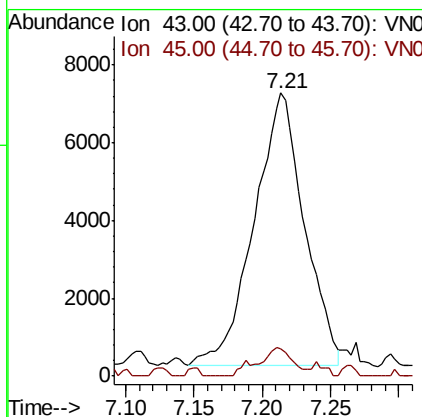
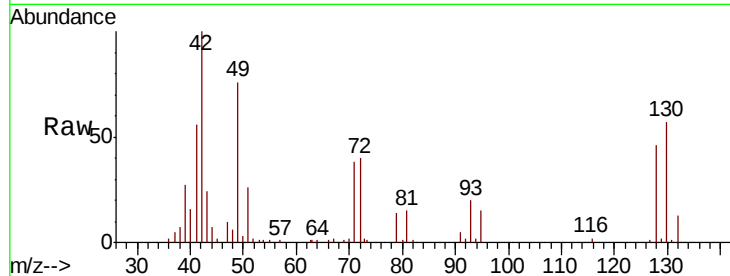
#43
Ethyl Acetate
Concen: 2.324 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.38 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 43 Resp: 17863
Ion Ratio Lower Upper
43 100
45 5.7 3.8 5.8

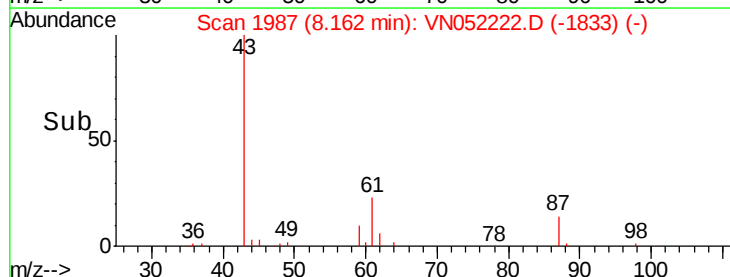
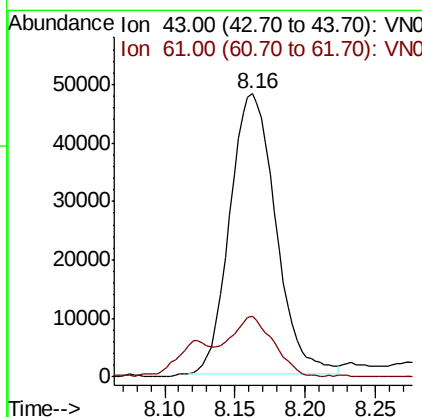
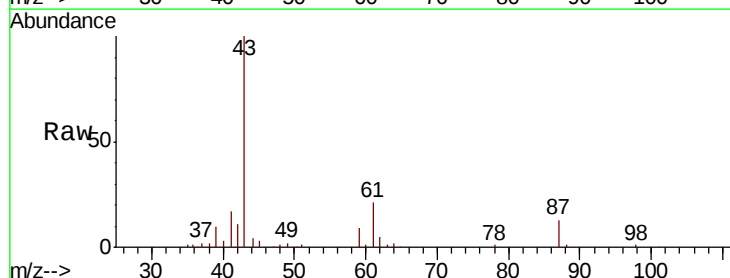
Manual Integrations
APPROVED

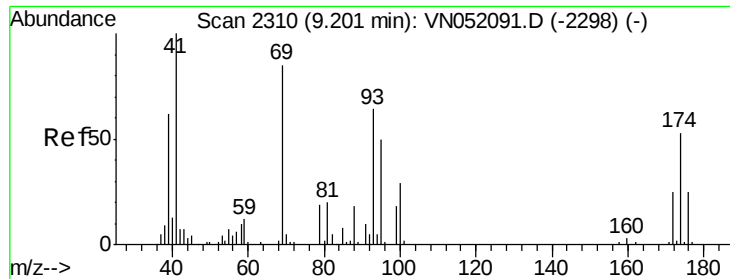
MMDadoda
11/9/2018 1:12:48 PM



#44
Isopropyl Acetate
Concen: 17.094 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion: 43 Resp: 108790
Ion Ratio Lower Upper
43 100
61 19.9 16.2 24.2





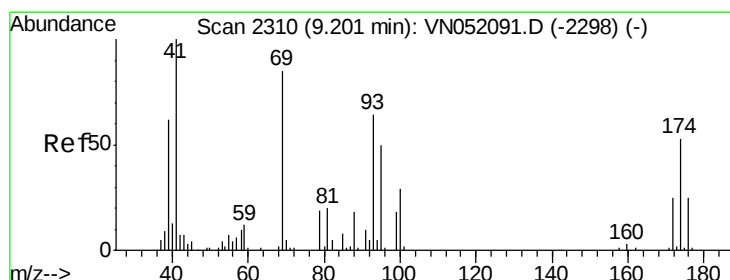
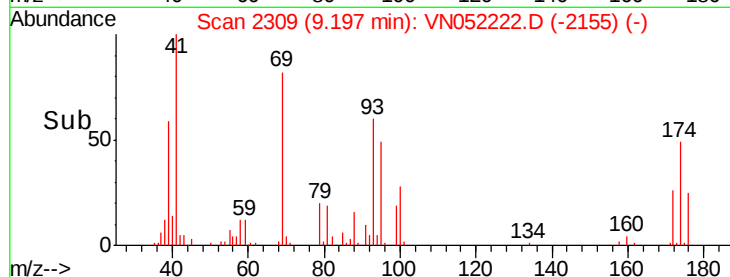
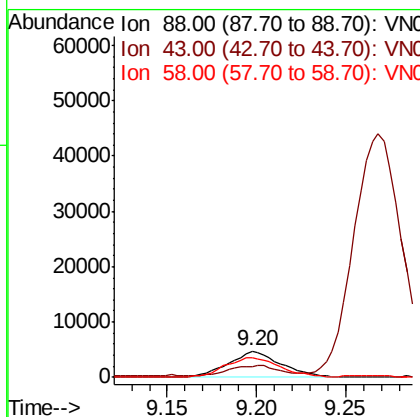
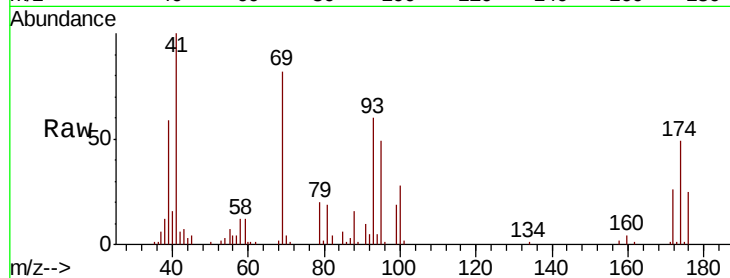
#45
1,4-Dioxane
Concen: 334.351 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	14.0	28.6	43.0#
58	79.4	37.8	56.8#

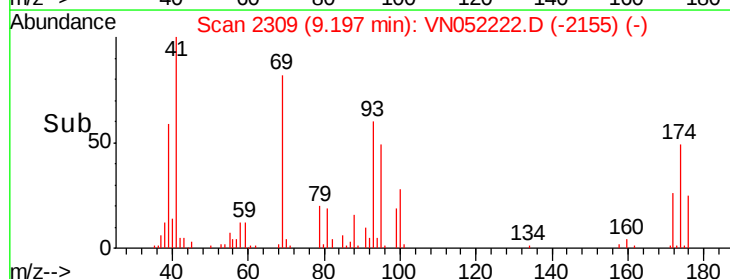
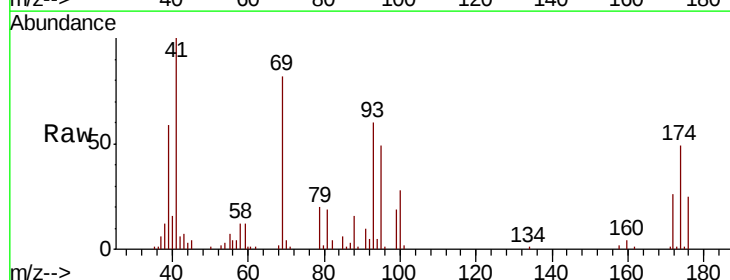
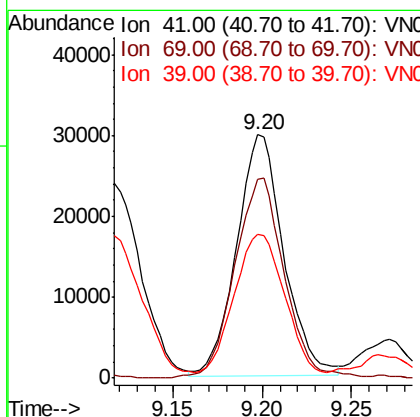
Manual Integrations
APPROVED

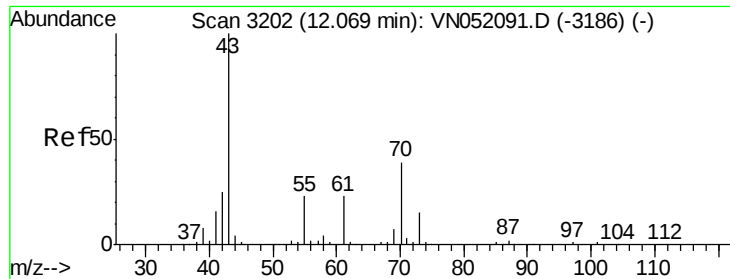
MMDadoda
11/9/2018 1:12:48 PM



#46
Methyl methacrylate
Concen: 17.344 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
41	100		
69	82.2	42.5	127.6
39	58.0	31.1	93.3





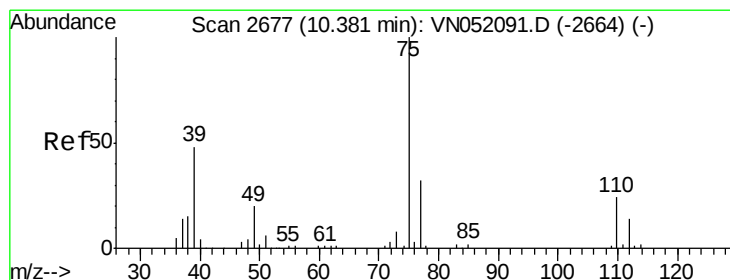
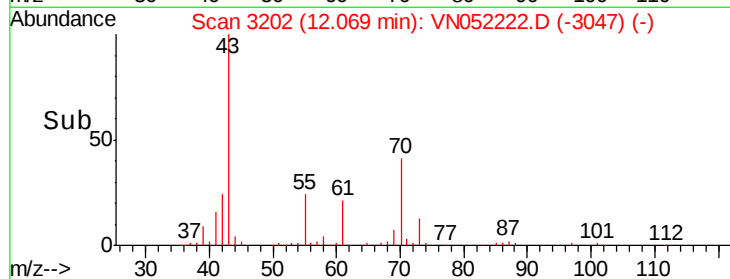
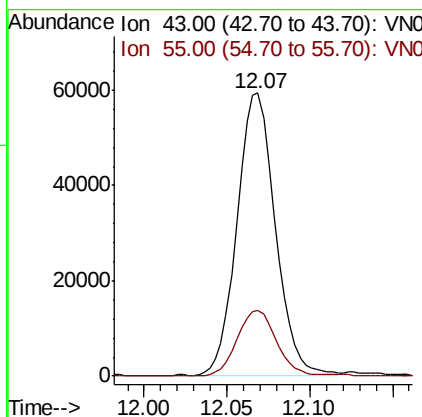
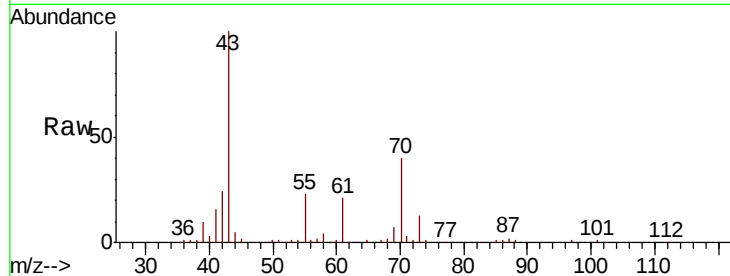
#47
n-amvl Acetate
Concen: 16.481 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 43 Resp: 95076
Ion Ratio Lower Upper
43 100
55 24.1 0.0 0.0#

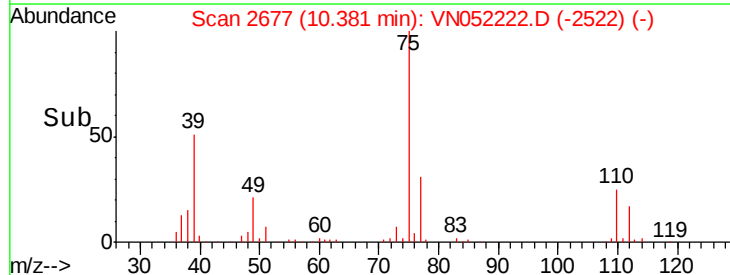
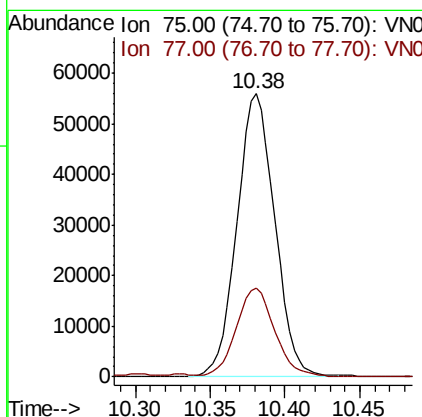
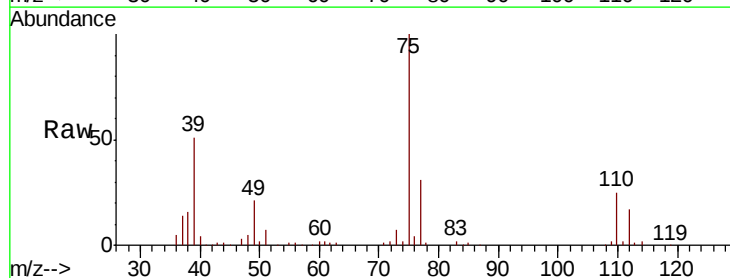
Manual Integrations
APPROVED

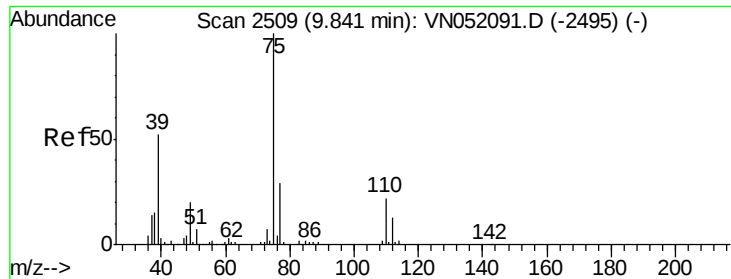
MMDadoda
11/9/2018 1:12:48 PM



#48
t-1,3-Dichloropropene
Concen: 17.581 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion: 75 Resp: 98563
Ion Ratio Lower Upper
75 100
77 31.2 26.3 39.5





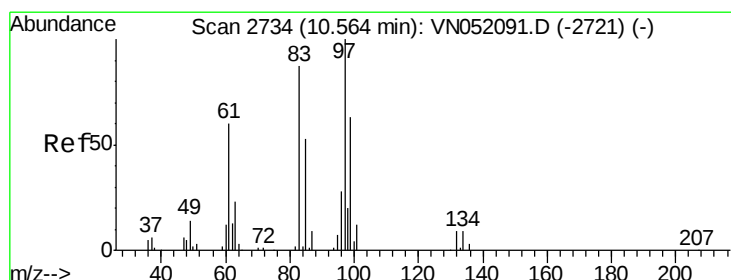
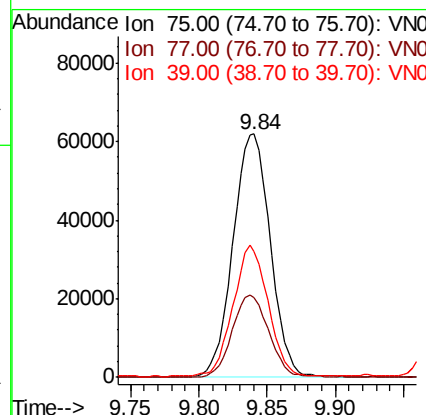
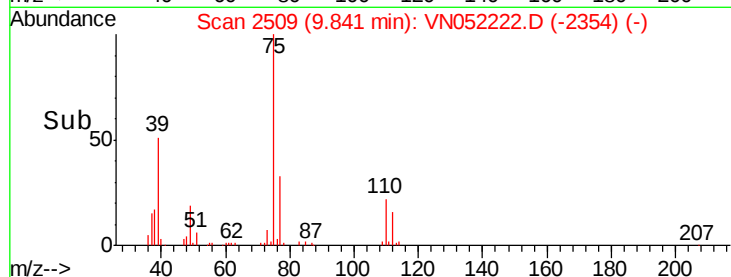
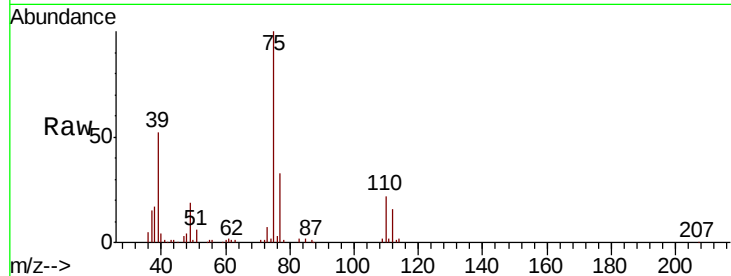
#49
 cis-1,3-Dichloropropene
 Concen: 18.170 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.9	23.3	34.9
39	51.1	41.6	62.4

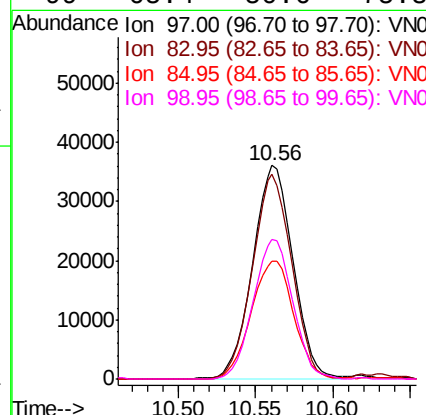
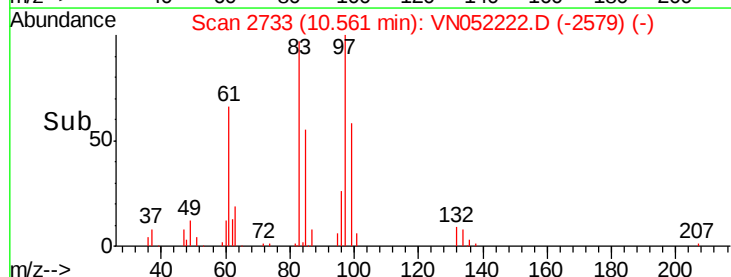
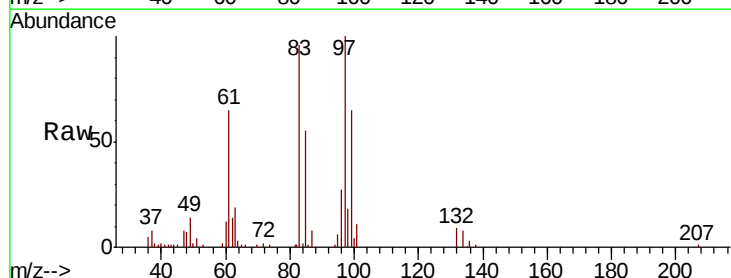
Manual Integrations
 APPROVED

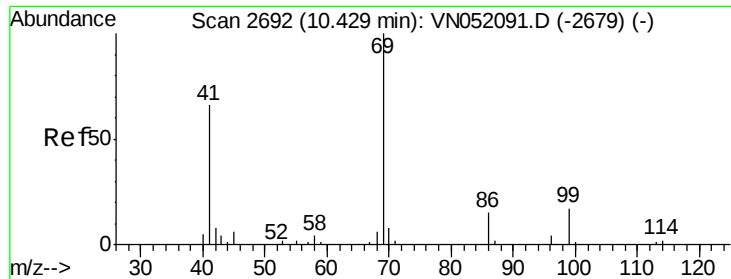
MMDadoda
 11/9/2018 1:12:48 PM



#50
 1,1,2-Trichloroethane
 Concen: 18.030 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
97	100		
83	95.7	69.4	104.0
85	55.1	42.7	64.1
99	65.4	50.6	75.8





#51

Ethyl methacrylate

Concen: 17.335 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 69 Resp: 81748

Ion Ratio Lower Upper

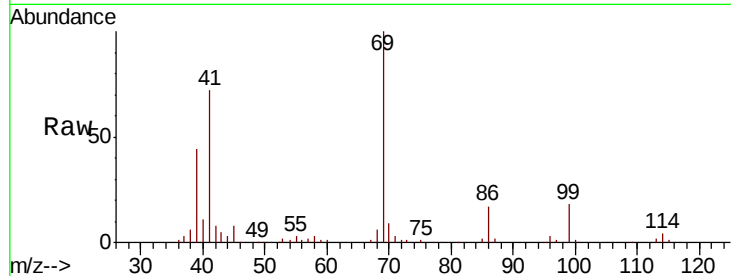
69 100

41 71.8 33.0 99.0

39 42.3 20.7 62.1

Manual Integrations
APPROVED

MMDadoda
11/9/2018 1:12:48 PM

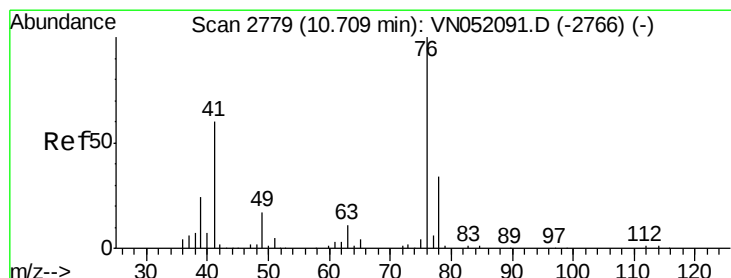
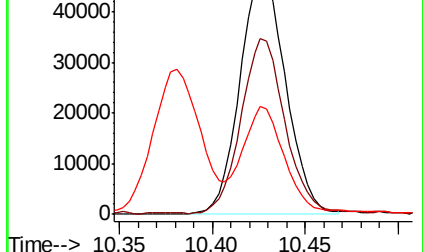
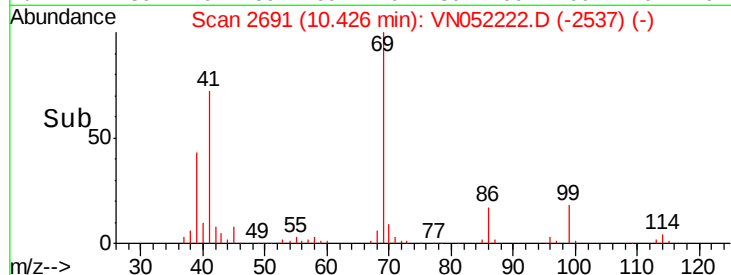


Abundance Ion 69.00 (68.70 to 69.70): VN052091.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN052091.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN052091.D (-2679) (-)

Time-->



#52

1,3-Dichloropropane

Concen: 18.197 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN052222.D

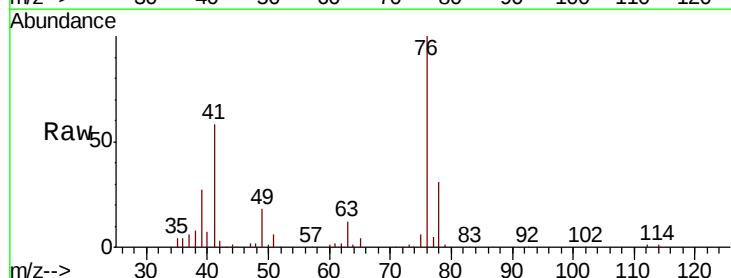
Acq: 8 Nov 2018 16:09

Tgt Ion: 76 Resp: 115656

Ion Ratio Lower Upper

76 100

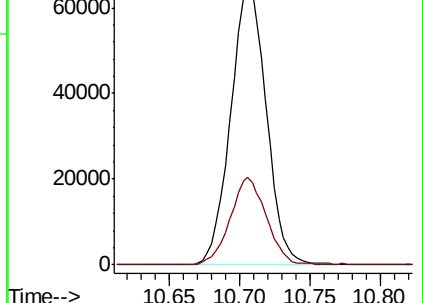
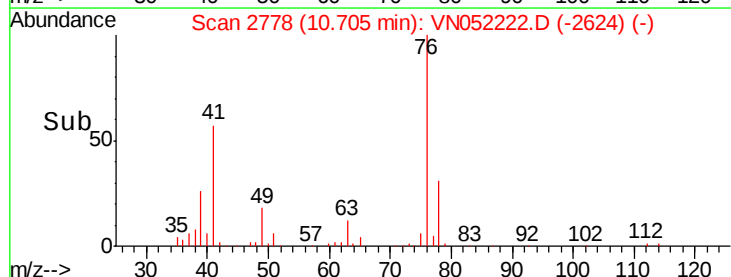
78 31.7 0.0 65.0

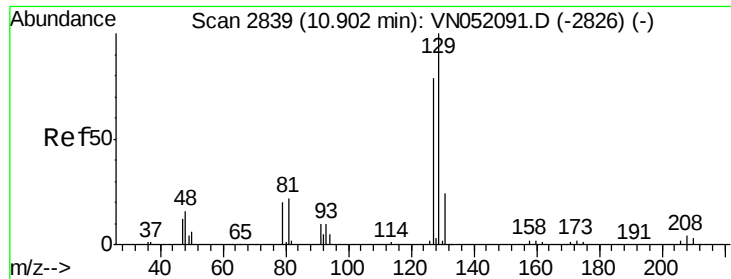


Abundance Ion 76.00 (75.70 to 76.70): VN052091.D (-2766) (-)

Ion 78.00 (77.70 to 78.70): VN052091.D (-2766) (-)

Time-->





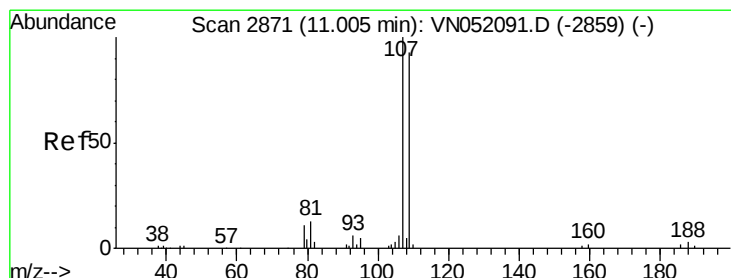
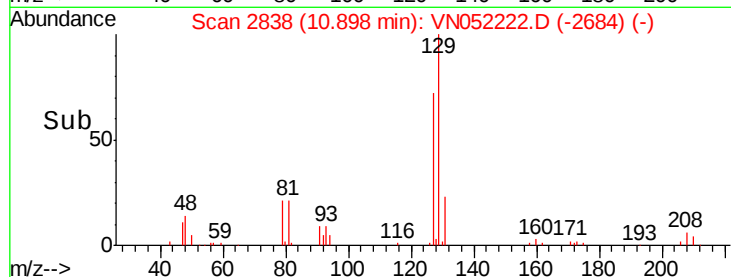
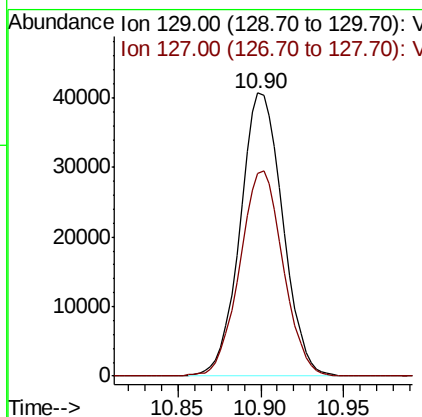
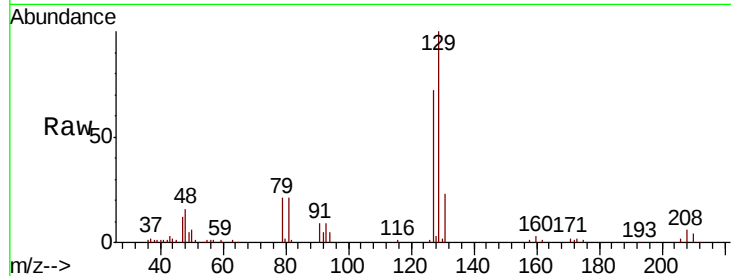
#53
Dibromochloromethane
Concen: 18.469 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:129 Resp: 72753
Ion Ratio Lower Upper
129 100
127 73.9 39.2 117.6

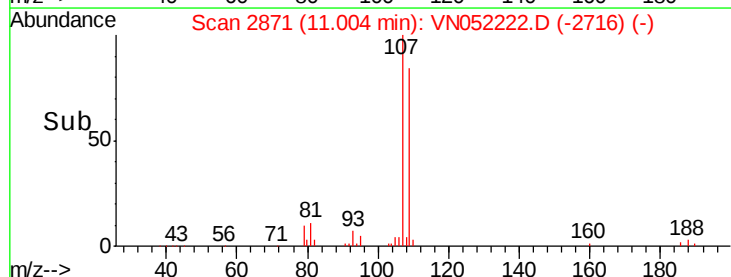
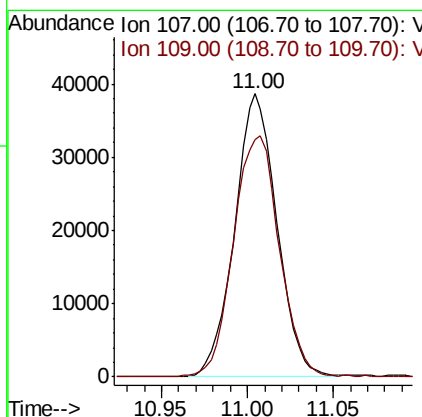
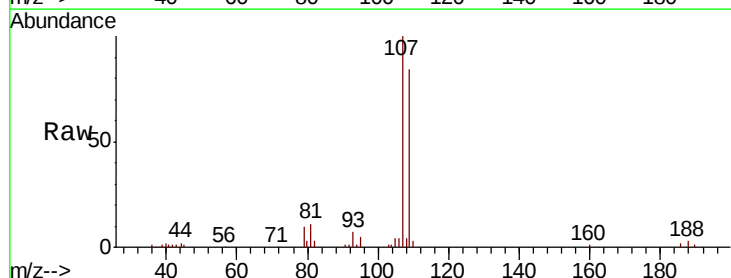
Manual Integrations
APPROVED

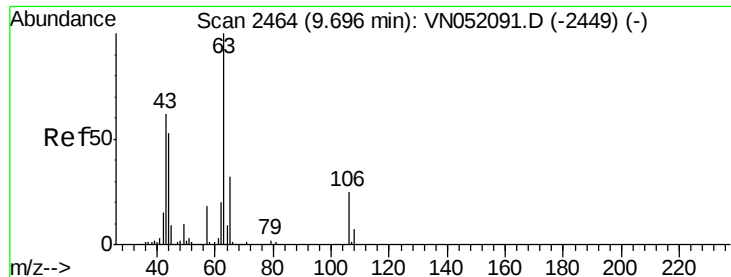
MMDadoda
11/9/2018 1:12:48 PM



#54
1,2-Dibromoethane
Concen: 17.836 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion:107 Resp: 65992
Ion Ratio Lower Upper
107 100
109 92.1 77.0 115.6





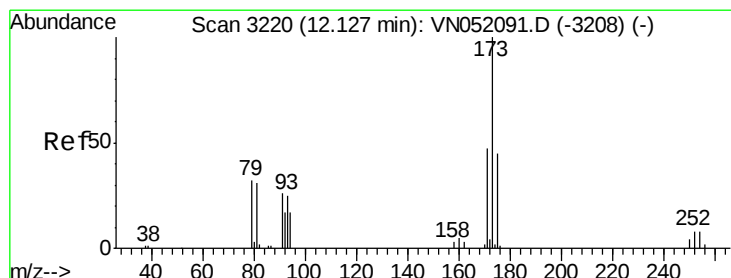
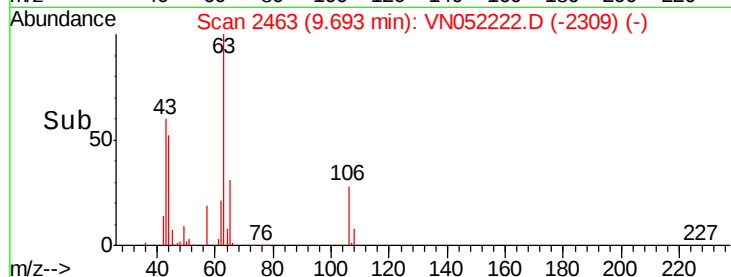
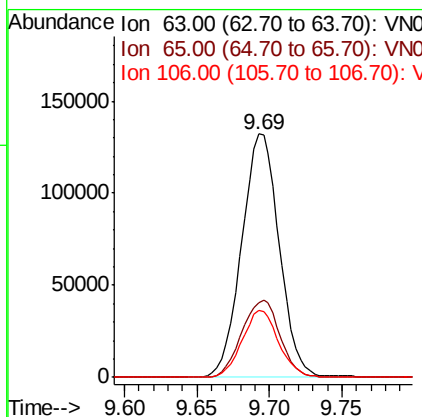
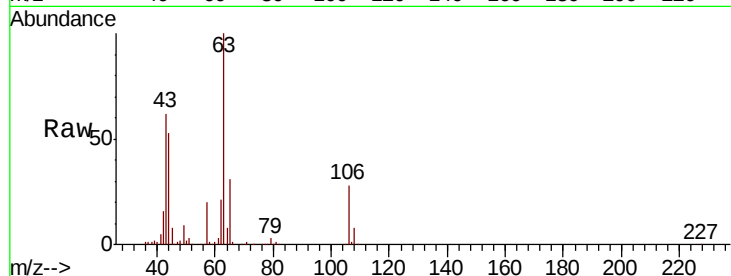
#55
2-Chloroethyl vinyl ether
Concen: 92.364 ug/l
RT: 9.69 min Scan# 2463
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.3	25.5	38.3
106	26.8	20.4	30.6

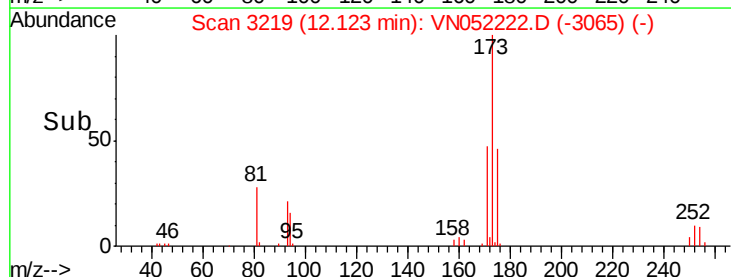
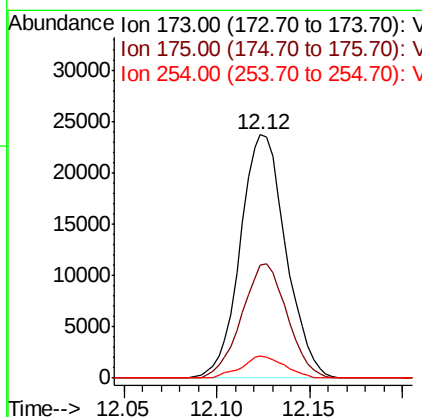
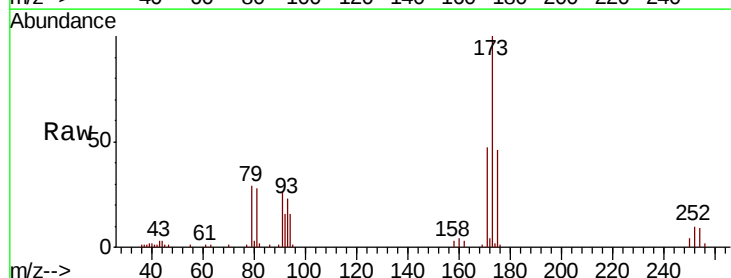
Manual Integrations
APPROVED

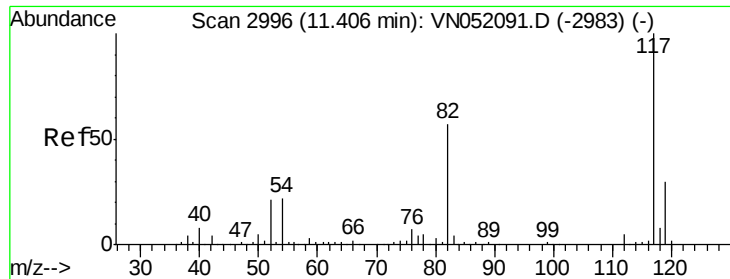
MMDadoda
11/9/2018 1:12:48 PM



#56
Bromoform
Concen: 17.915 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
173	100		
175	46.9	37.3	55.9
254	8.6	7.0	10.6





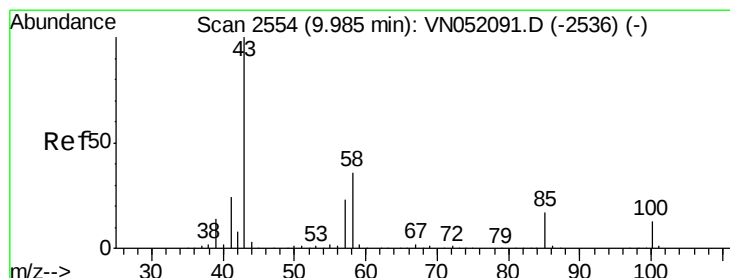
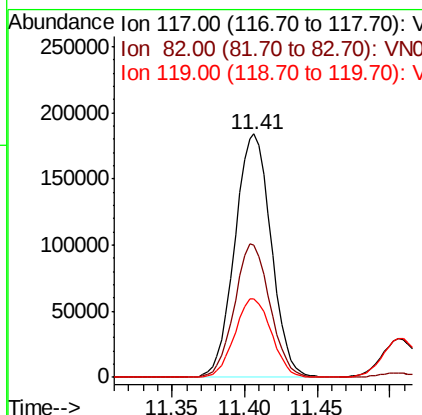
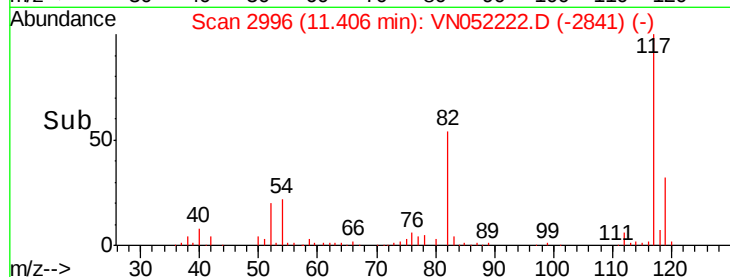
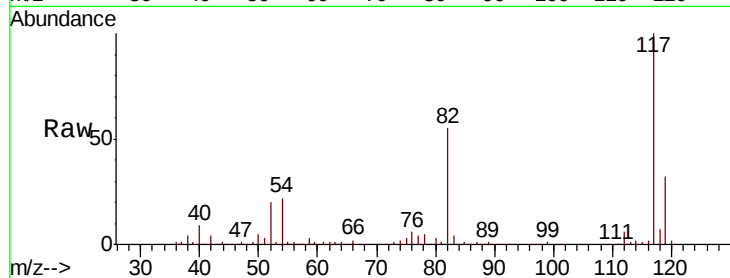
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	45.0	67.6
119	32.5	24.2	36.4

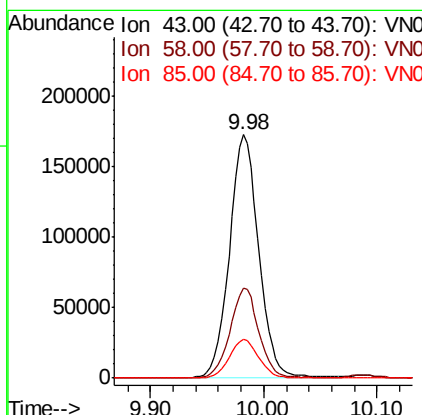
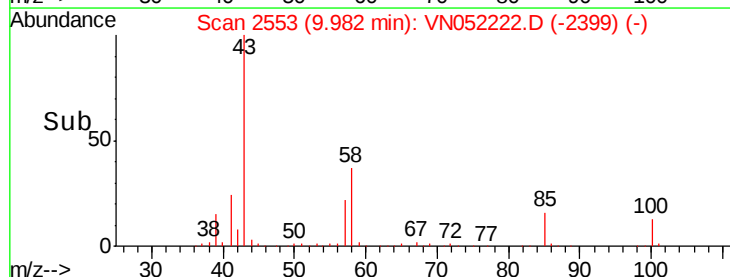
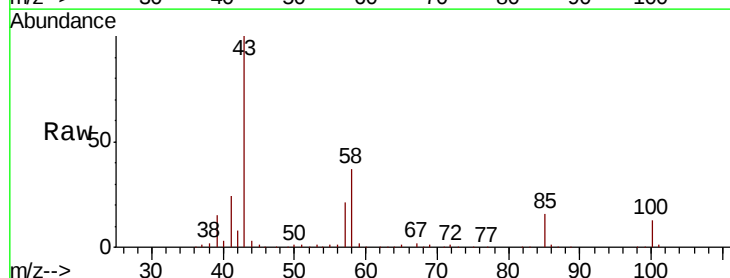
Manual Integrations
APPROVED

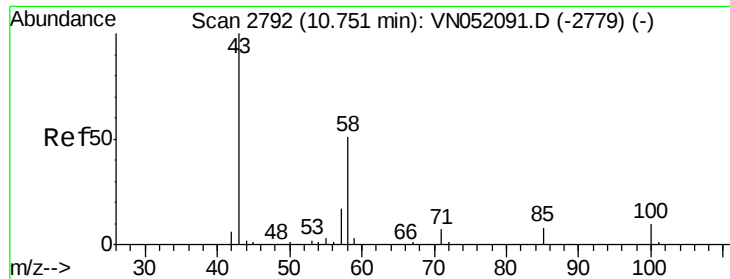
MMDadoda
11/9/2018 1:12:48 PM



#58
4-Methyl-2-Pentanone
Concen: 90.264 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.4	29.0	43.6
85	15.8	13.4	20.2





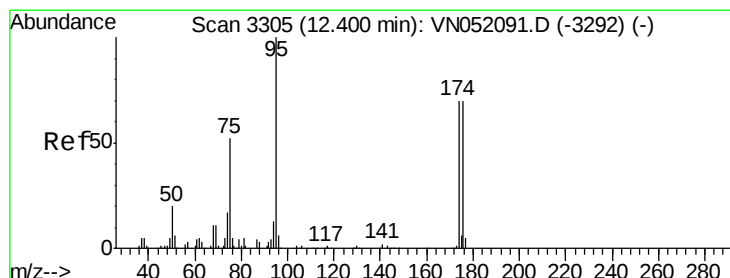
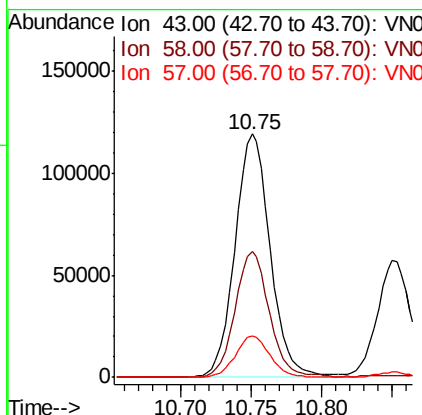
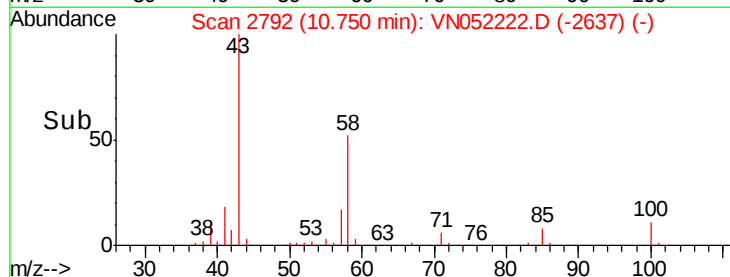
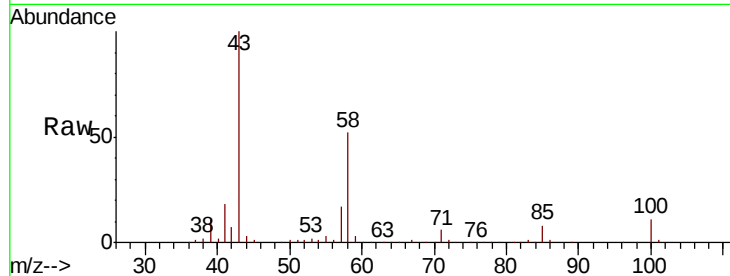
#59
2-Hexanone
Concen: 87.719 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.2	40.8	61.2
57	17.0	13.8	20.8

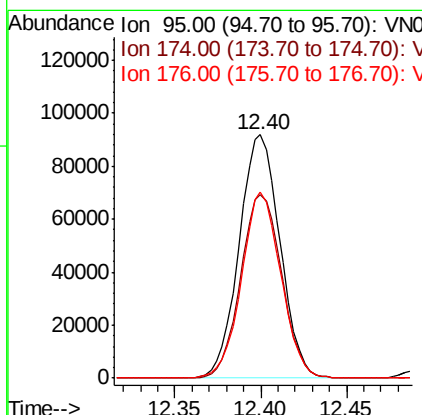
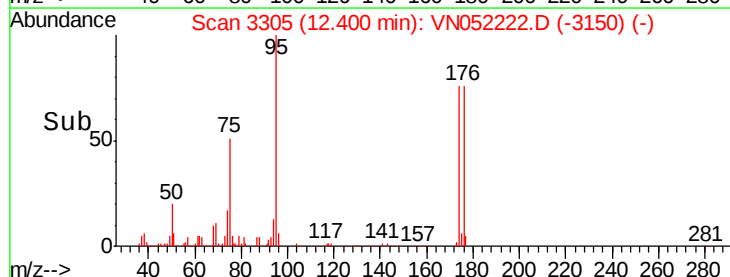
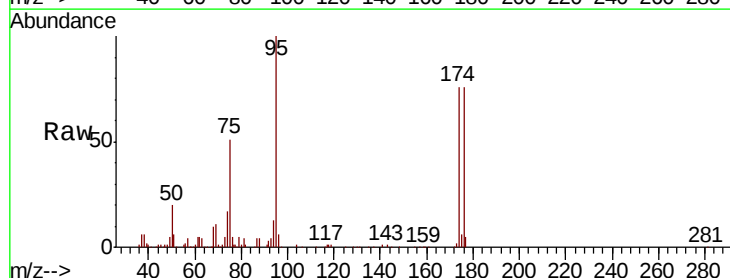
Manual Integrations
APPROVED

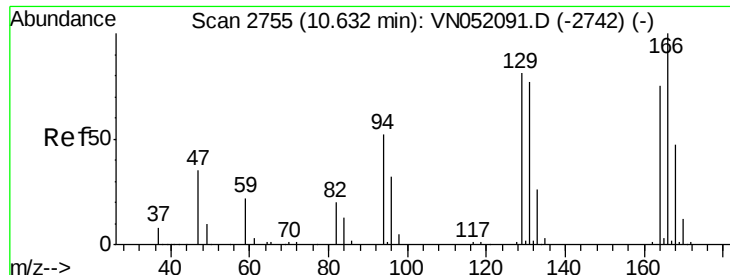
MMDadoda
11/9/2018 1:12:48 PM



#60
4-Bromofluorobenzene
Concen: 87.719 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
95	100		
174	76.0	55.0	82.6
176	73.8	54.2	81.4





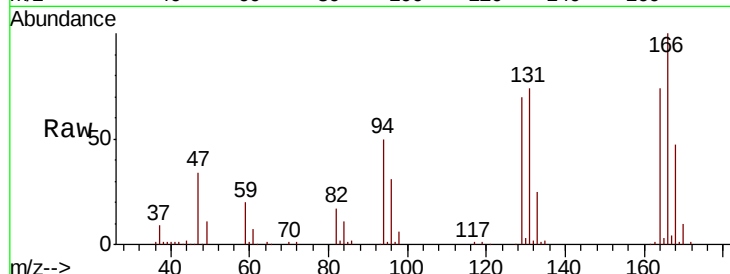
#61
Tetrachloroethene
Concen: 20.038 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
164	100		
166	135.3	106.4	159.6
129	95.4	87.0	130.4
131	99.8	81.4	122.2

Manual Integrations
APPROVED

MMDadoda
11/9/2018 1:12:48 PM



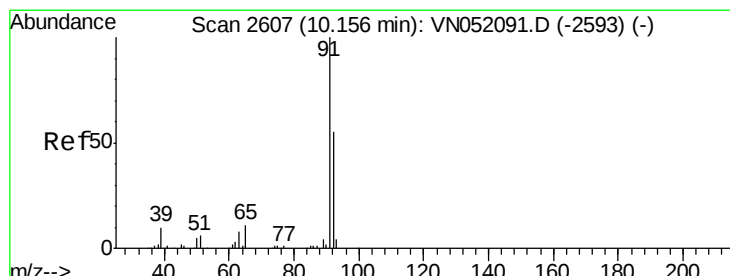
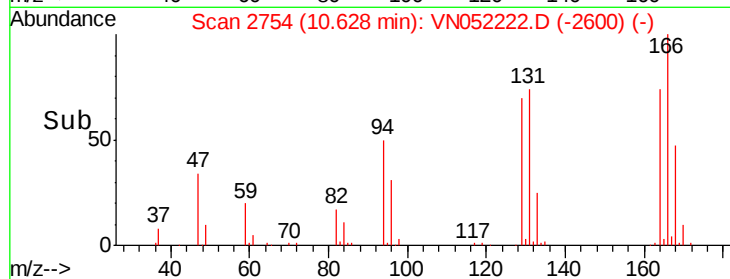
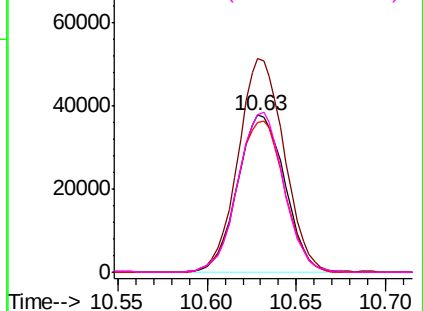
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

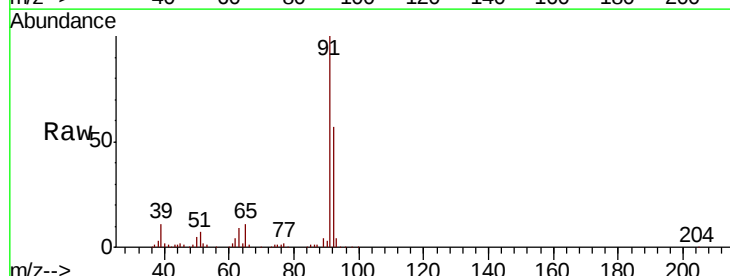
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62
Toluene
Concen: 19.064 ug/l
RT: 10.15 min Scan# 2606
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

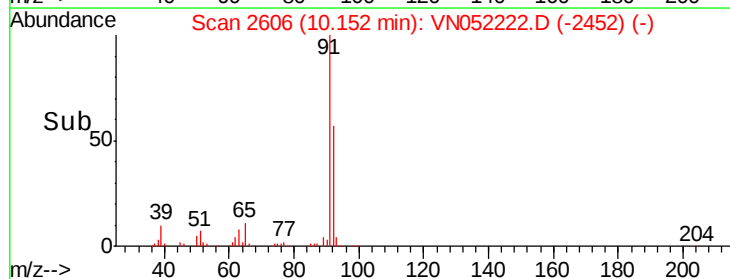
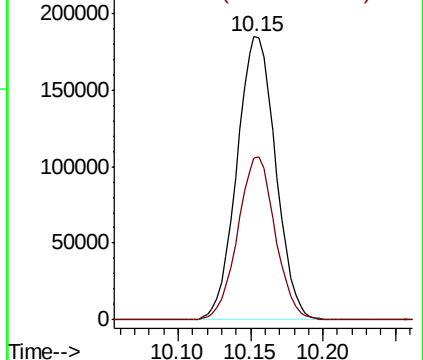
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.6	44.6	67.0

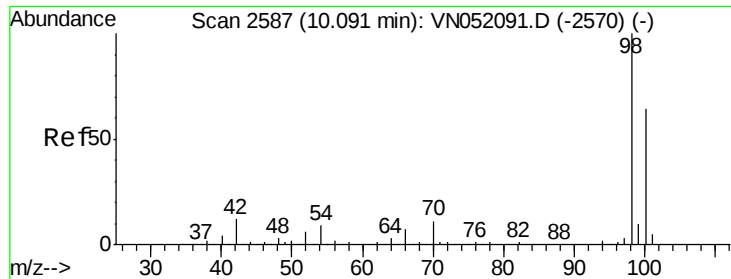


Abundance

Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





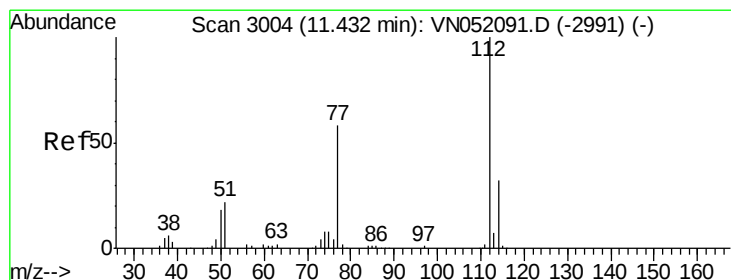
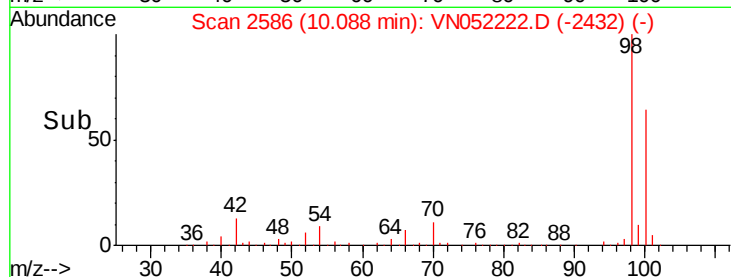
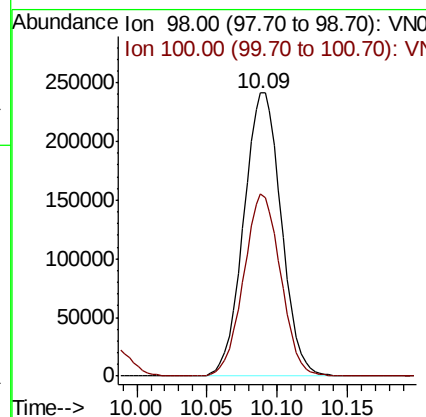
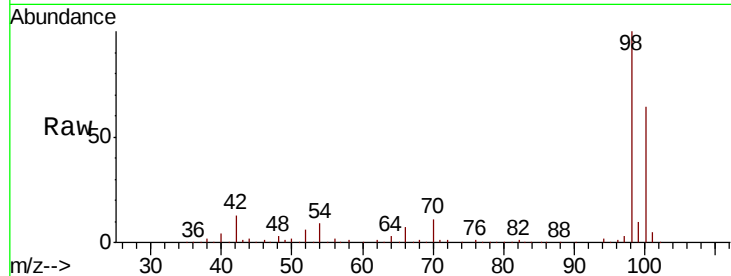
#63
Toluene-d8
Concen: 19.064 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 98 Resp: 450568
Ion Ratio Lower Upper
98 100
100 63.5 50.7 76.1

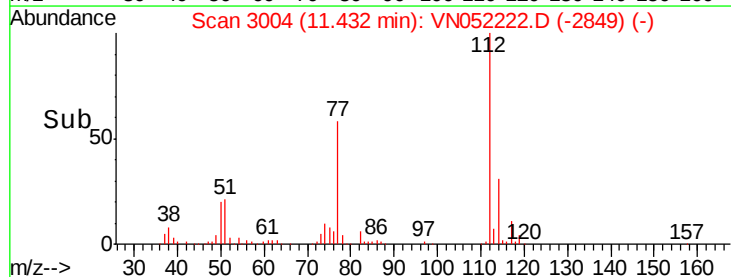
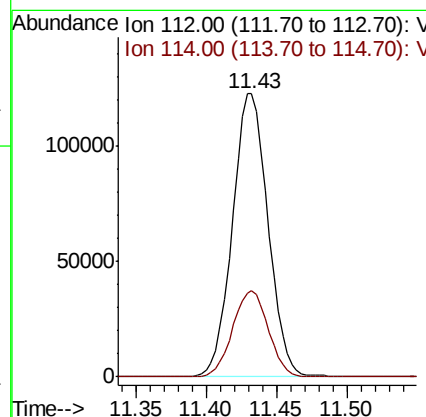
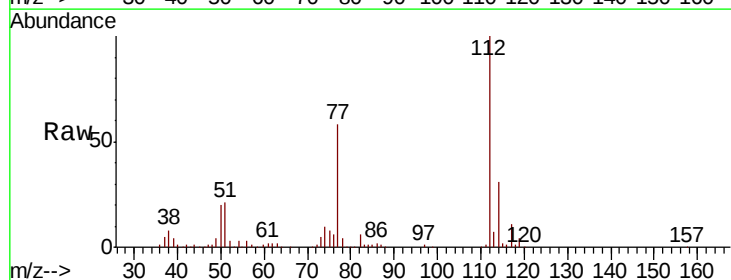
Manual Integrations
APPROVED

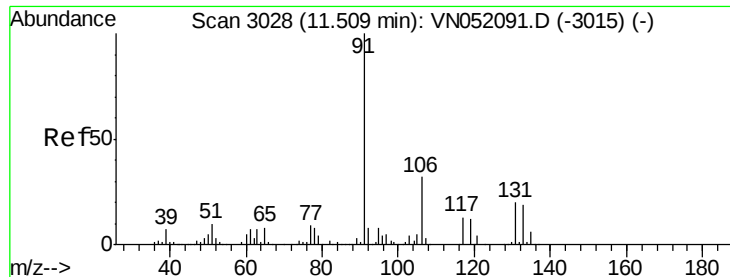
MMDadoda
11/9/2018 1:12:48 PM



#64
Chlorobenzene
Concen: 18.999 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion: 112 Resp: 216628
Ion Ratio Lower Upper
112 100
114 30.5 25.5 38.3





#65

1,1,1,2-Tetrachloroethane

Concen: 19.470 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

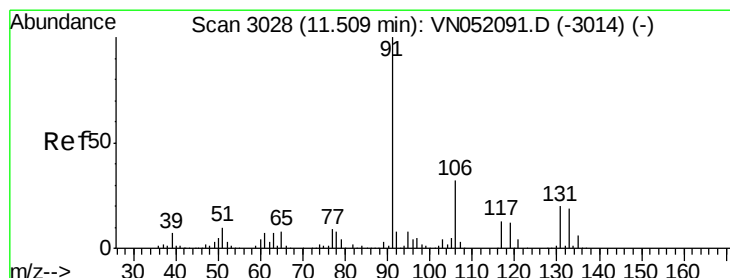
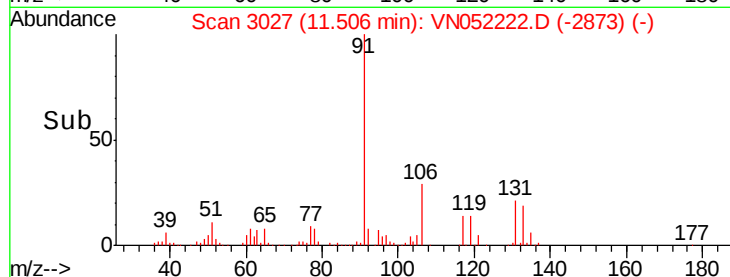
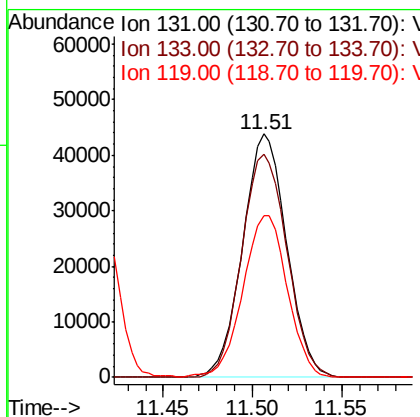
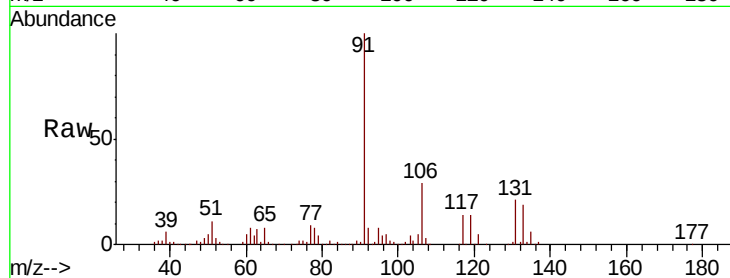
ClientSampleId :

VSTDCCC020EC

Tot Ion:	131	Resp:	75558
Ion Ratio	Lower	Upper	
131	100		
133	94.5	0.0	188.8
119	67.1	0.0	131.4

Manual Integrations
APPROVED

MMDadoda
11/9/2018 1:12:48 PM



#66

Ethyl Benzene

Concen: 19.042 ug/l

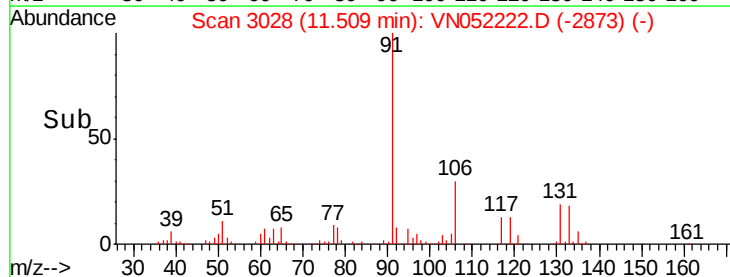
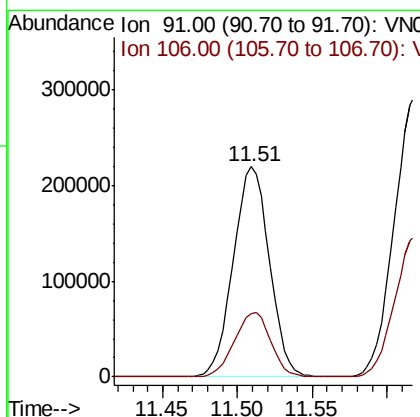
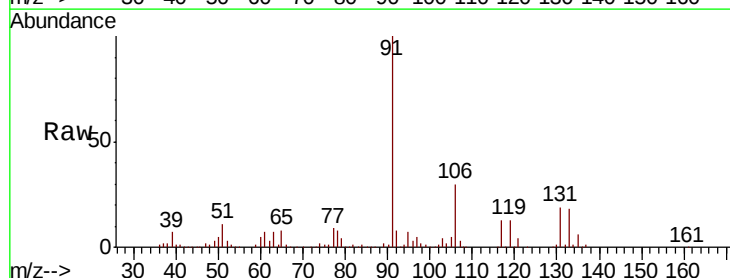
RT: 11.51 min Scan# 3028

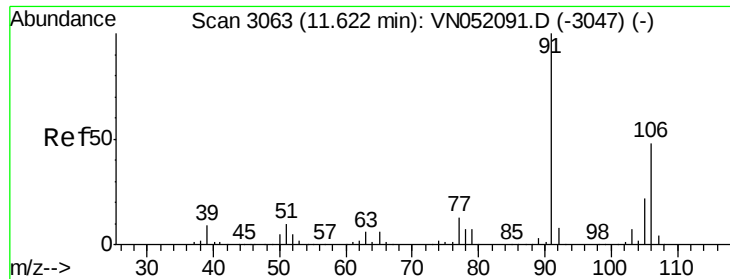
Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Tgt Ion:	91	Resp:	370050
Ion Ratio	Lower	Upper	
91	100		
106	30.3	25.7	38.5





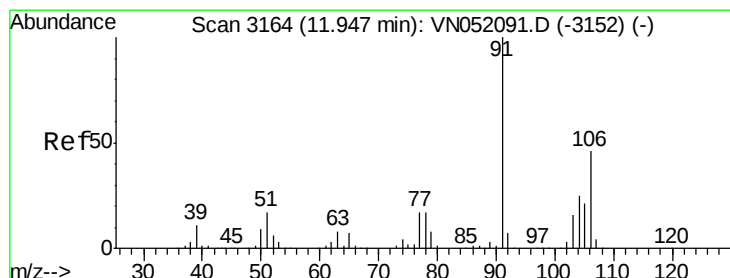
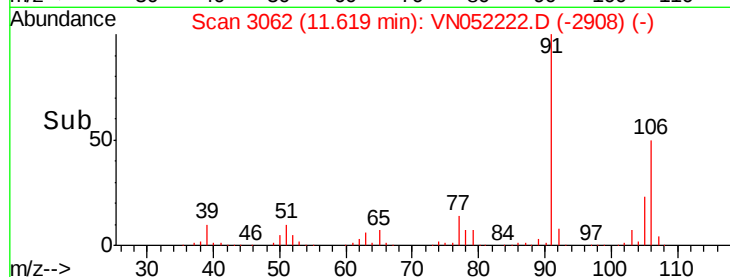
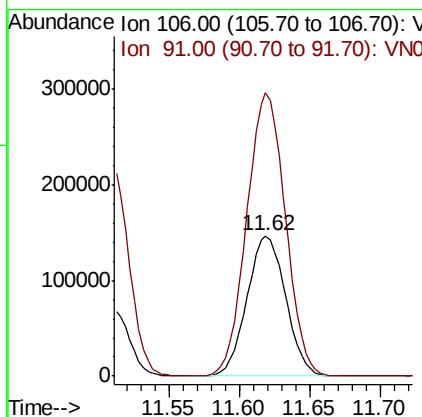
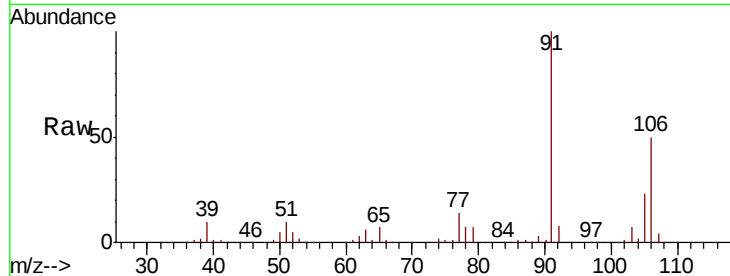
#67
m/p-Xvlenes
Concen: 37.653 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:106 Resp: 281714
Ion Ratio Lower Upper
106 100
91 202.3 163.6 245.4

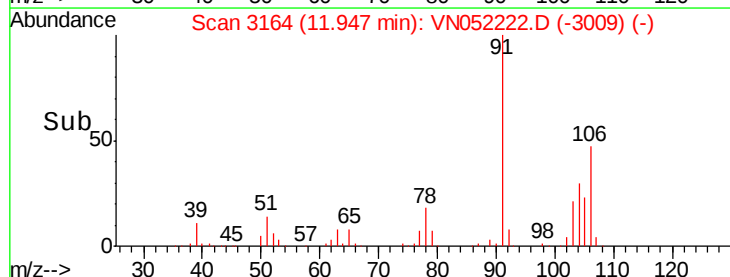
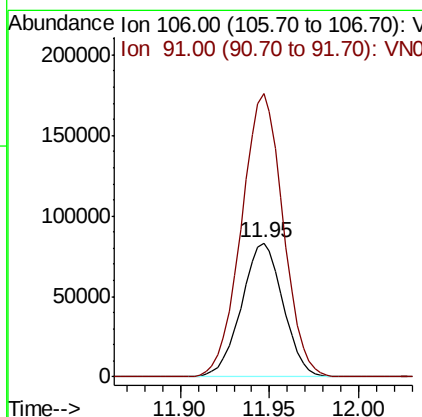
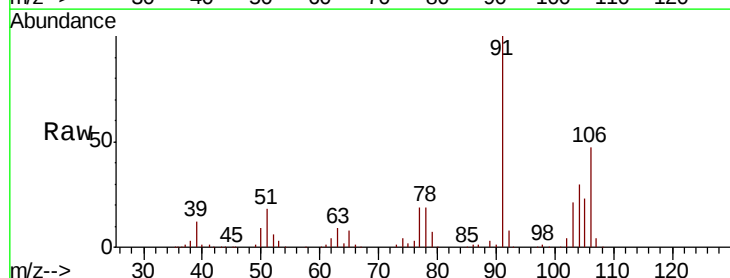
Manual Integrations
APPROVED

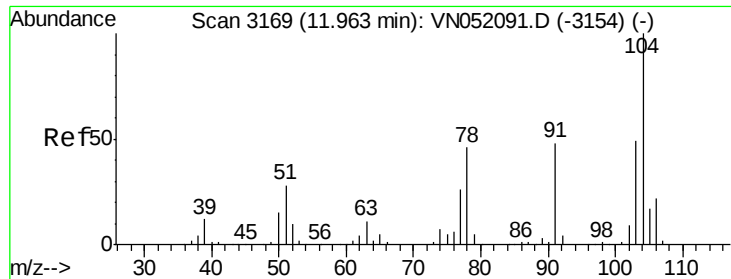
MMDadoda
11/9/2018 1:12:48 PM



#68
o-Xylene
Concen: 18.956 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion:106 Resp: 135217
Ion Ratio Lower Upper
106 100
91 211.6 110.0 330.0





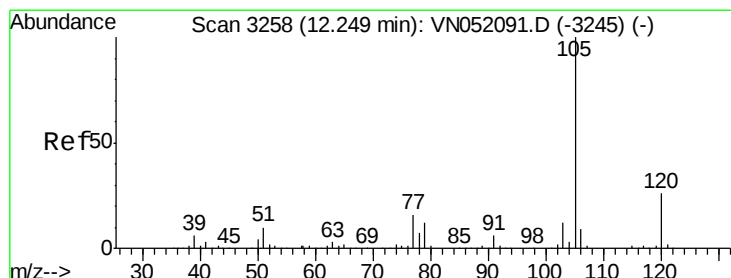
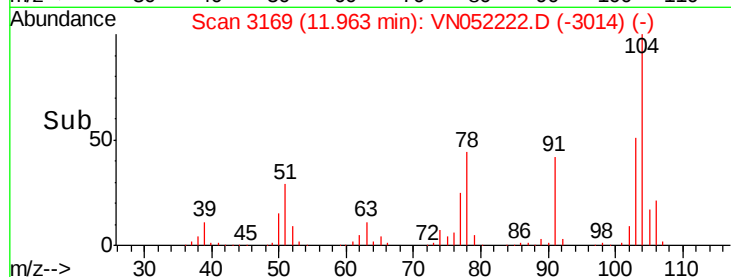
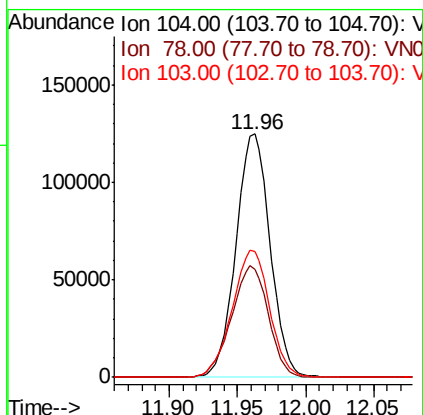
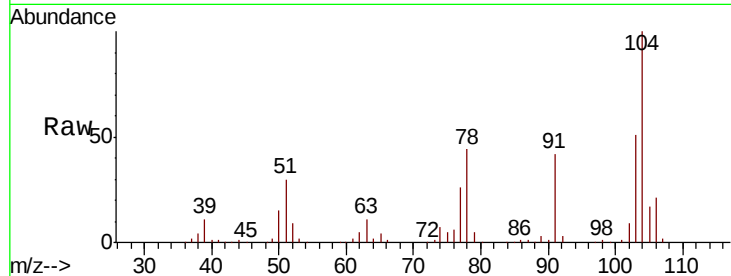
#69
Stvrene
Concen: 18.896 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.4	41.3	61.9
103	56.9	43.3	64.9

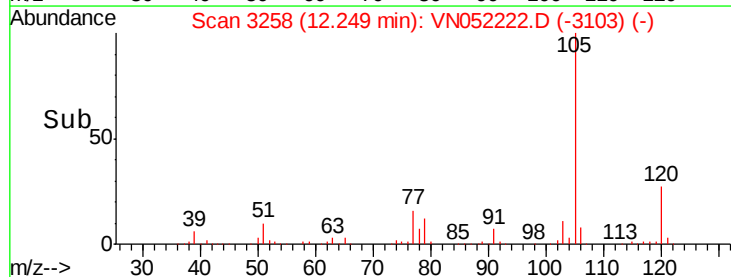
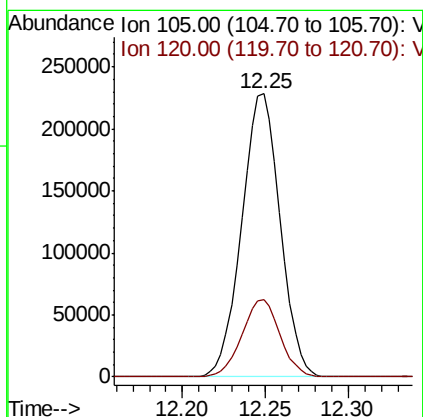
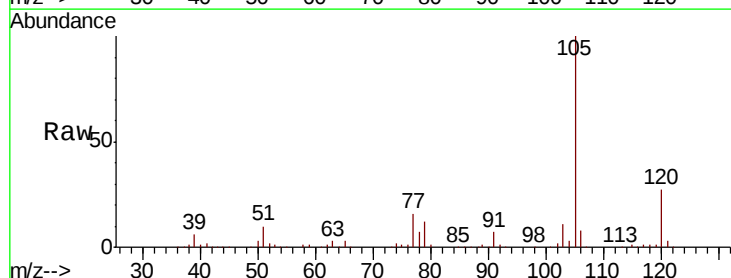
Manual Integrations
APPROVED

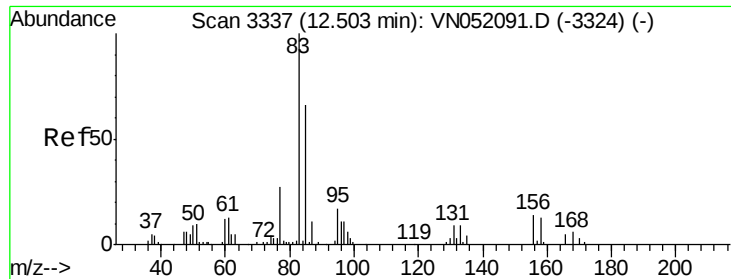
MMDadoda
11/9/2018 1:12:48 PM



#70
Isopropylbenzene
Concen: 19.192 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	18.4	34.2





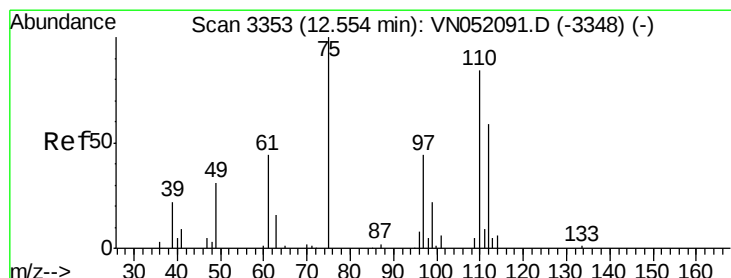
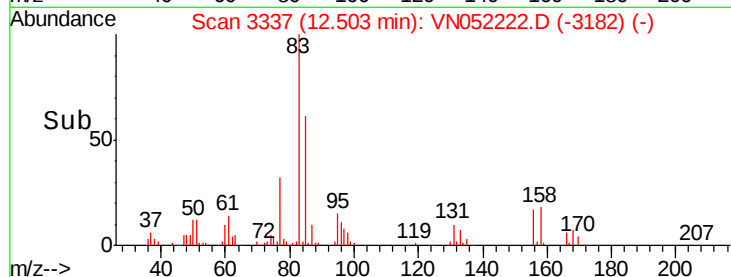
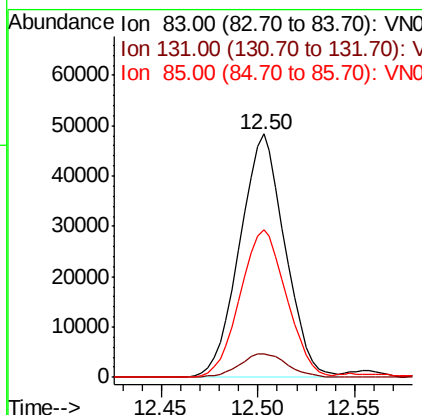
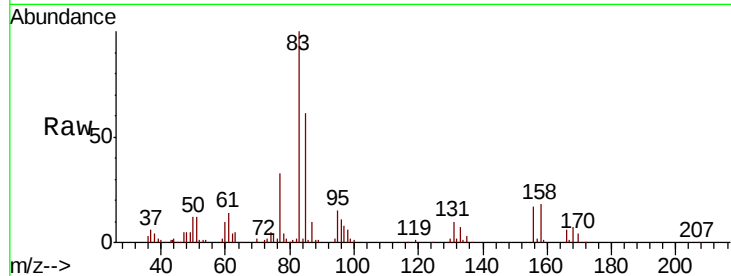
#71
 1,1,2,2-Tetrachloroethane
 Concen: 18.725 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.3	4.8	14.3
85	62.0	32.7	98.1

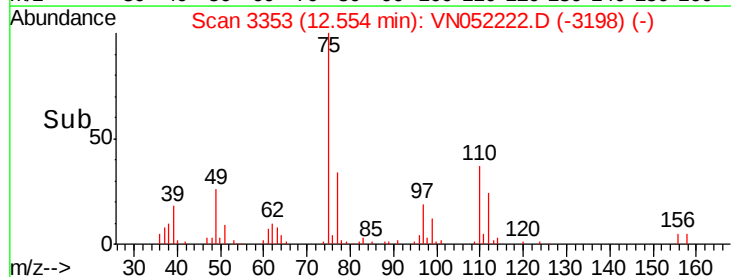
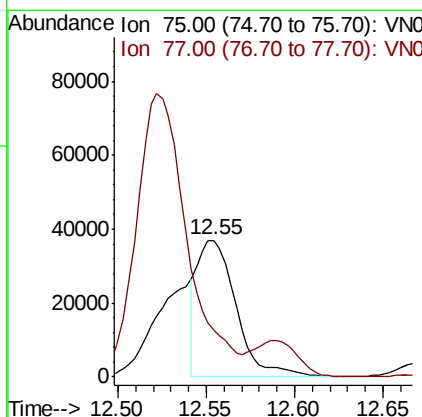
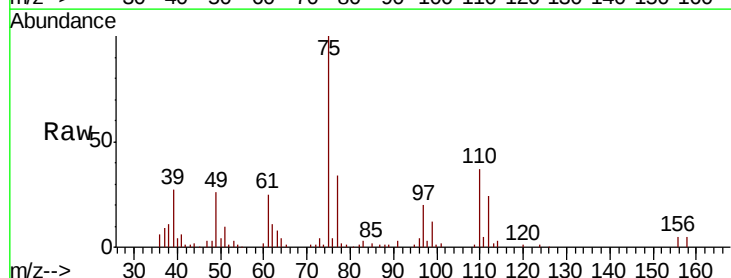
Manual Integrations
 APPROVED

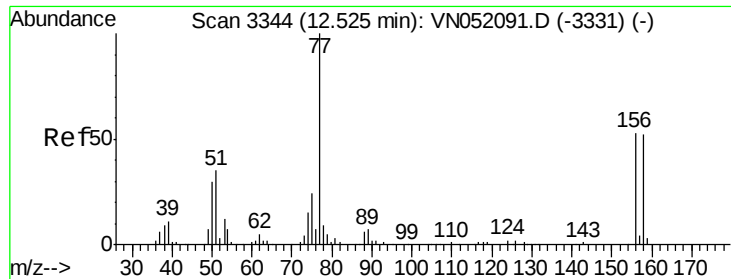
MMDadoda
 11/9/2018 1:12:48 PM



#72
 1,2,3-Trichloropropane
 Concen: 15.245 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
75	100		
77	273.1	0.0	481.8





#73

Bromobenzene

Concen: 20.029 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

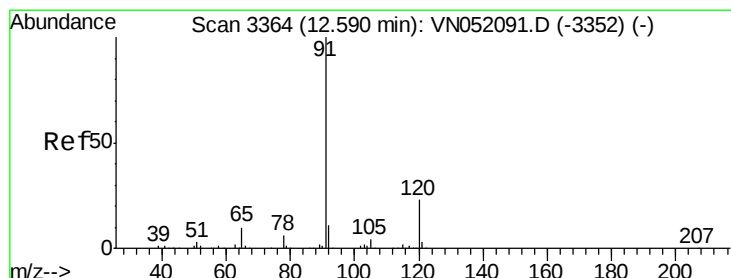
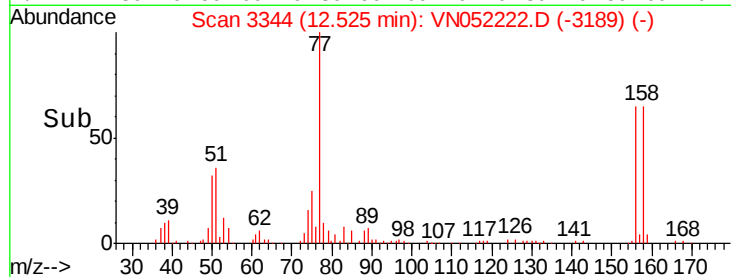
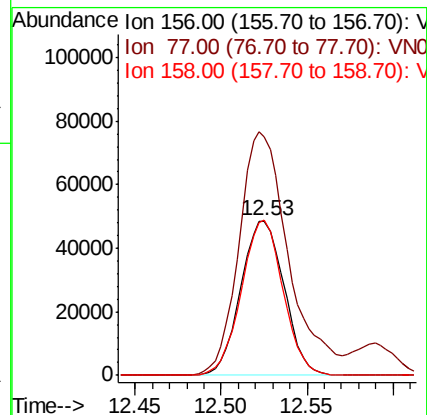
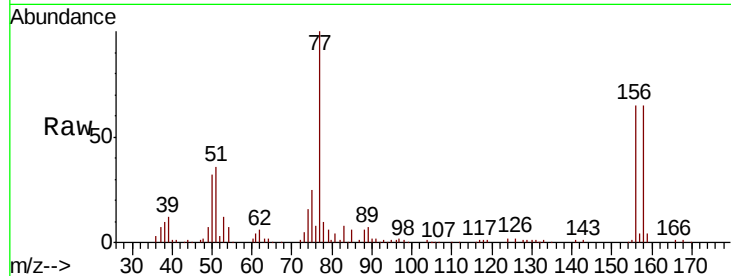
ClientSampleId :

VSTDCCC020EC

Tot Ion:	156	Resp:	84982
Ion Ratio	Lower	Upper	
156	100		
77	181.4	0.0	428.0
158	97.1	0.0	196.8

Manual Integrations
APPROVED

MMDadoda
11/9/2018 1:12:48 PM



#74

n-propylbenzene

Concen: 18.861 ug/l

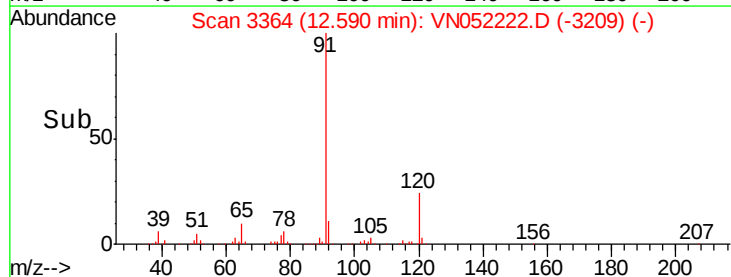
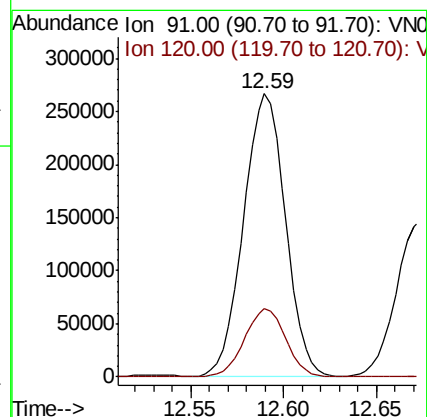
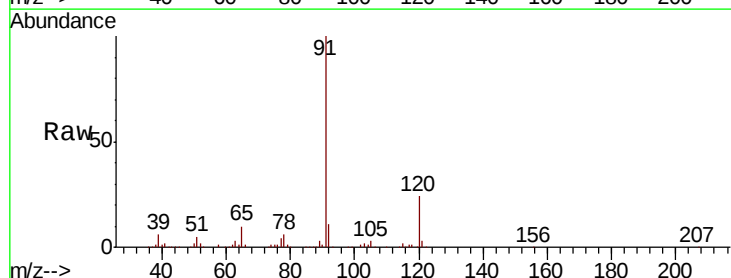
RT: 12.59 min Scan# 3364

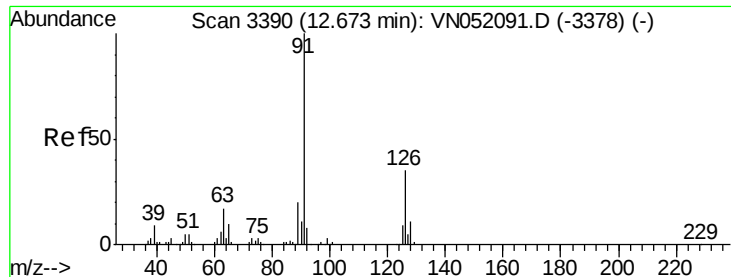
Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Tgt Ion:	91	Resp:	420577
Ion Ratio	Lower	Upper	
91	100		
120	23.7	0.0	44.8





#75

2-Chlorotoluene

Concen: 18.685 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 91 Resp: 240217

Ion Ratio Lower Upper

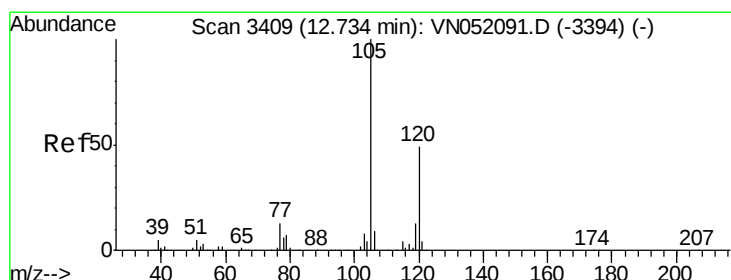
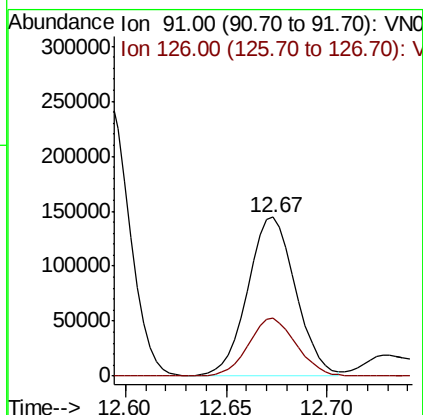
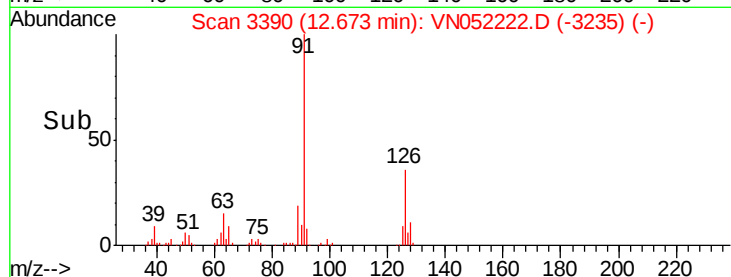
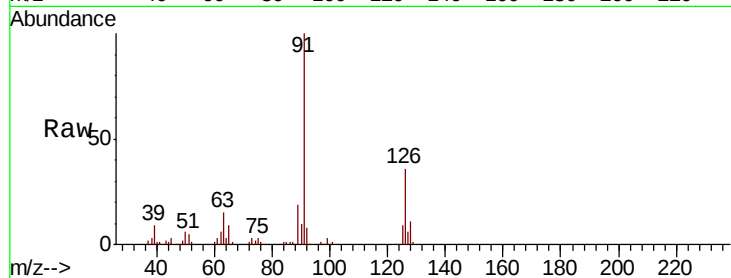
91 100

126 36.1 0.0 68.0

Manual Integrations
APPROVED

MMDadoda

11/9/2018 1:12:48 PM



#76

1,3,5-Trimethylbenzene

Concen: 18.800 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052222.D

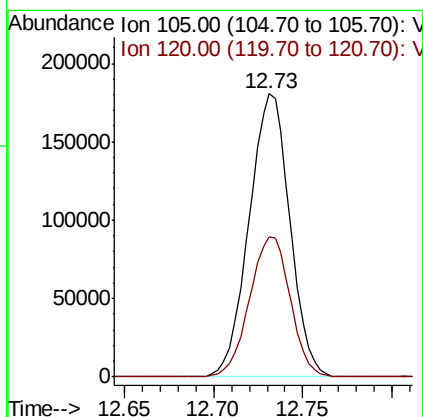
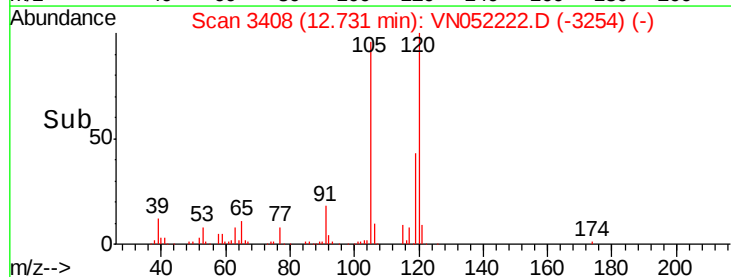
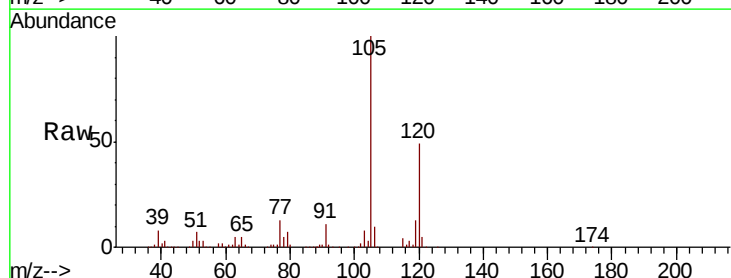
Acq: 8 Nov 2018 16:09

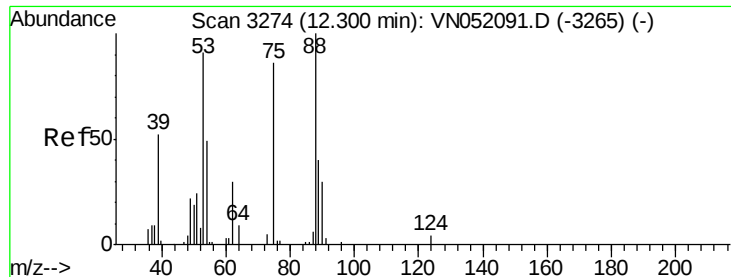
Tgt Ion: 105 Resp: 288673

Ion Ratio Lower Upper

105 100

120 49.4 0.0 95.8





#77

t-1,4-Dichloro-2-butene

Concen: 15.388 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

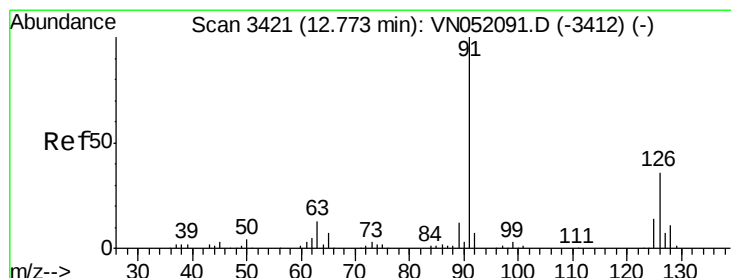
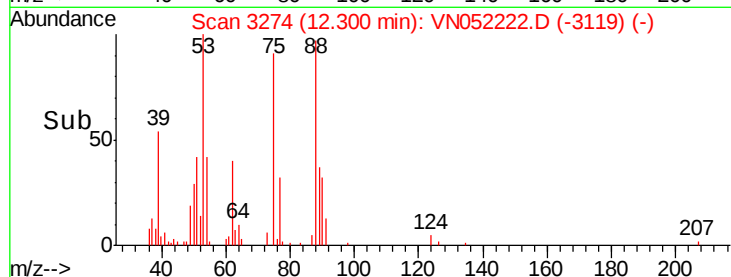
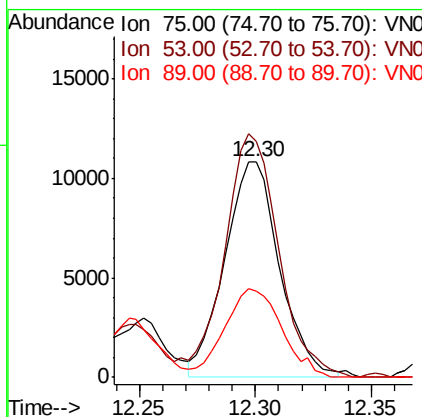
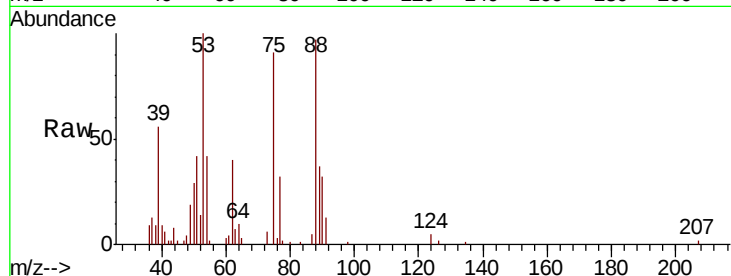
ClientSampleId :

VSTDCCC020EC

Tot Ion:	75	Resp:	17830
Ion	Ratio	Lower	Upper
75	100		
53	109.5	50.7	152.1
89	41.0	23.8	71.5

Manual Integrations
APPROVED

MMDadoda
11/9/2018 1:12:48 PM



#78

4-Chlorotoluene

Concen: 18.269 ug/l

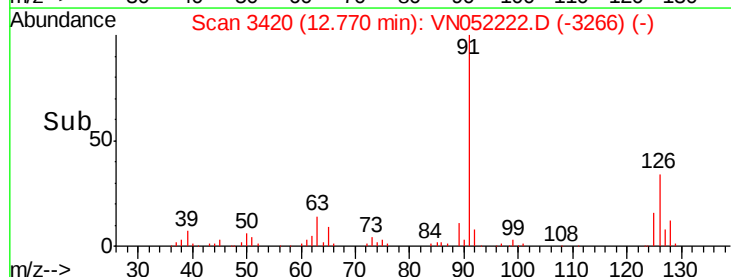
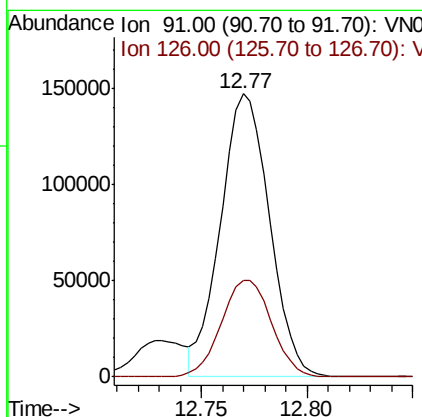
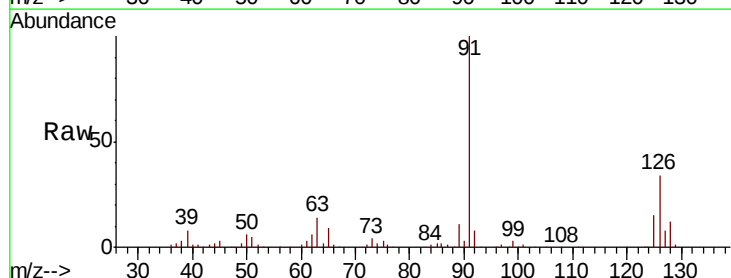
RT: 12.77 min Scan# 3420

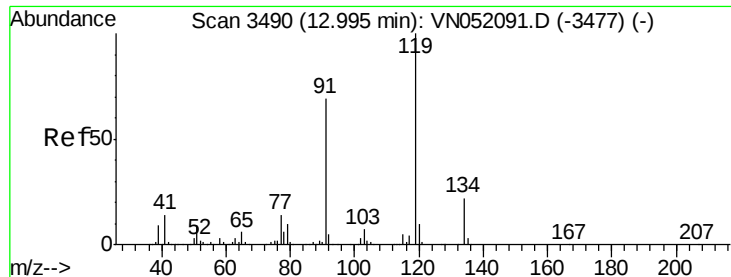
Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Tgt Ion:	91	Resp:	236510
Ion	Ratio	Lower	Upper
91	100		
126	35.4	0.0	68.0





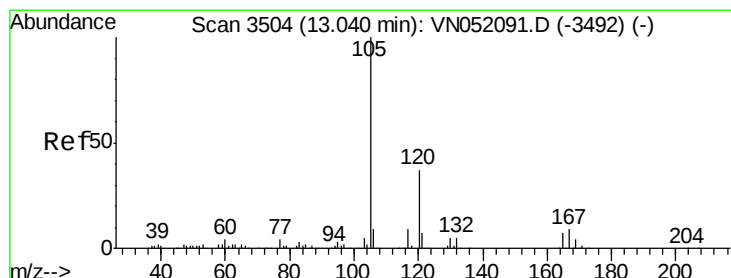
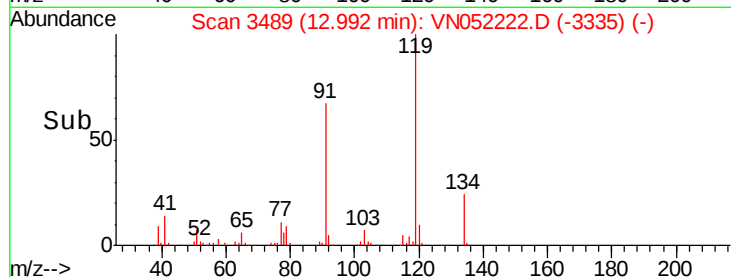
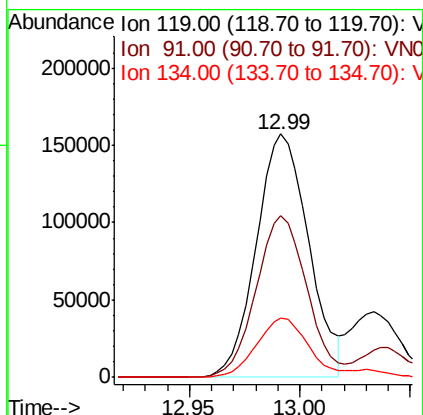
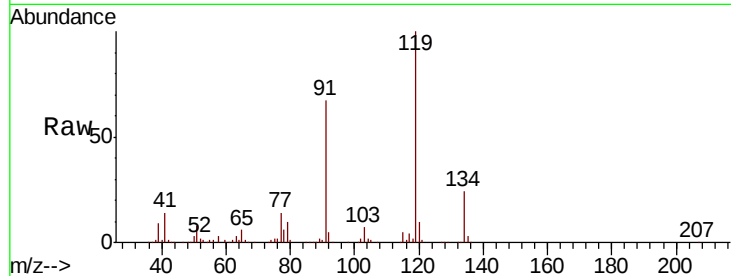
#79
tert-butylbenzene
Concen: 19.372 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	259105		
91	64.8	0.0	131.2	
134	24.4	0.0	45.8	

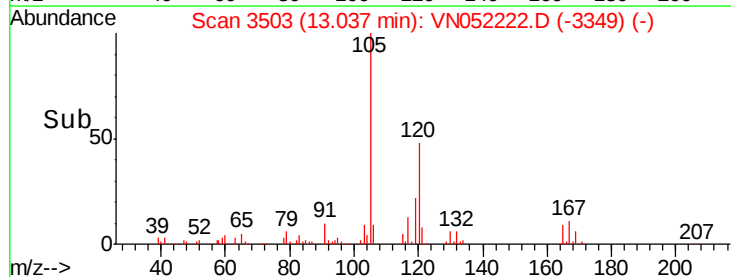
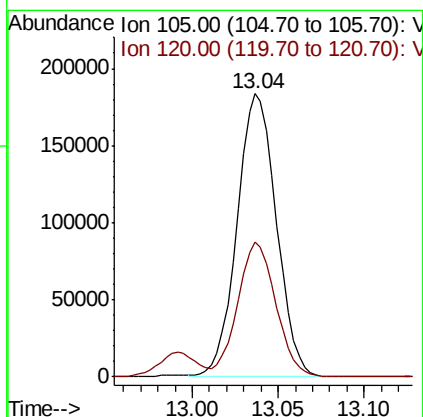
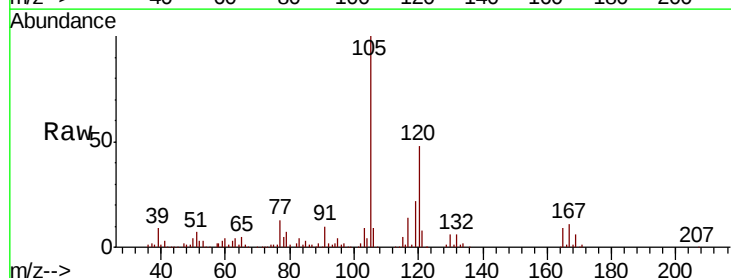
Manual Integrations
APPROVED

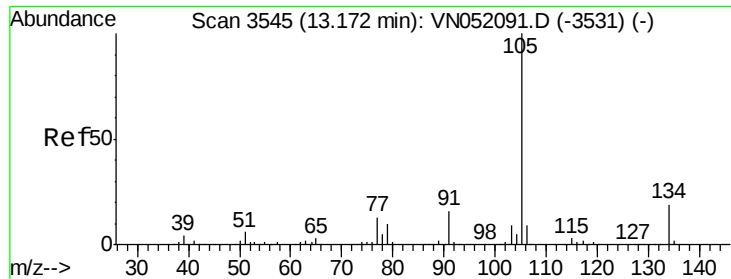
MMDadoda
11/9/2018 1:12:48 PM



#80
1,2,4-Trimethylbenzene
Concen: 19.100 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	292172		
120	46.1	0.0	89.4	





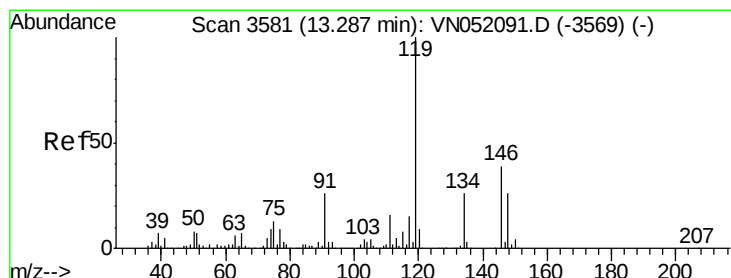
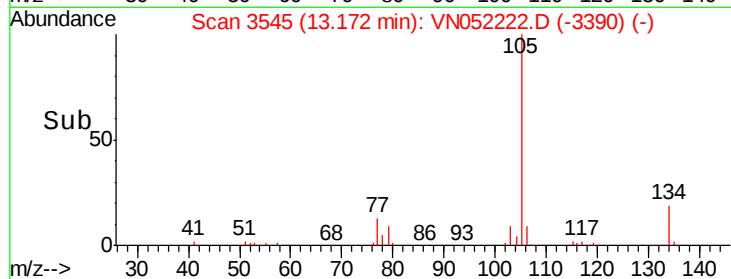
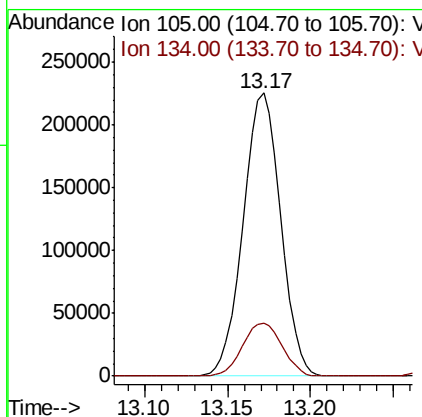
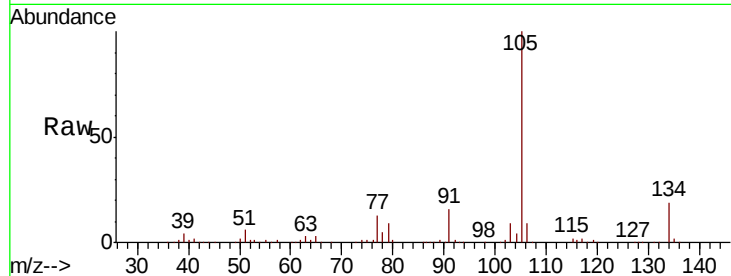
#81
 sec-Butylbenzene
 Concen: 19.278 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.8	0.0	38.6

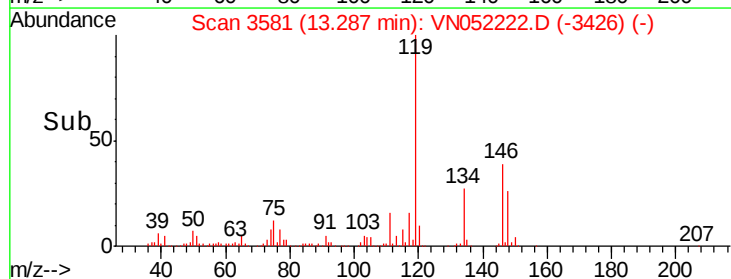
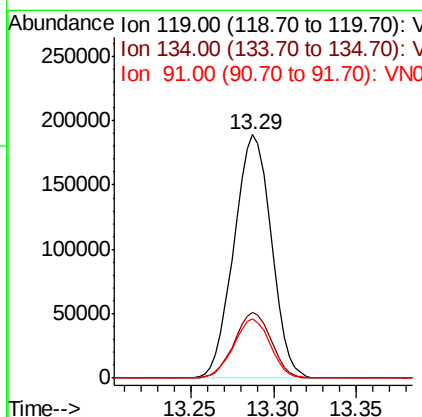
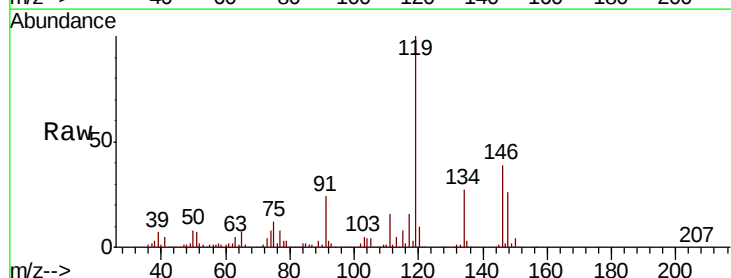
Manual Integrations
 APPROVED

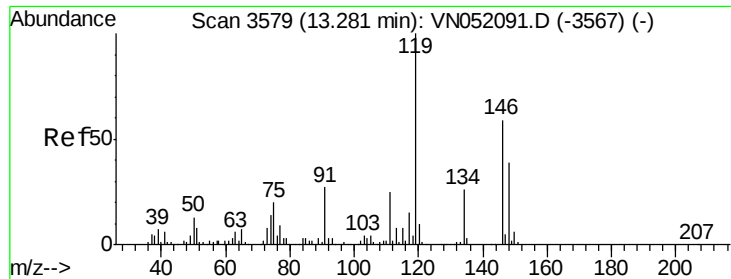
MMDadoda
 11/9/2018 1:12:48 PM



#82
 p-Isopropyltoluene
 Concen: 19.077 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.7	0.0	52.0
91	23.9	0.0	50.8





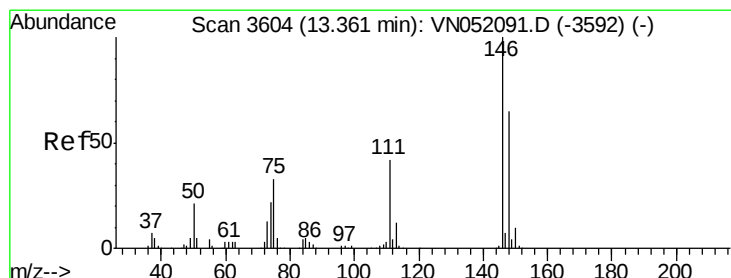
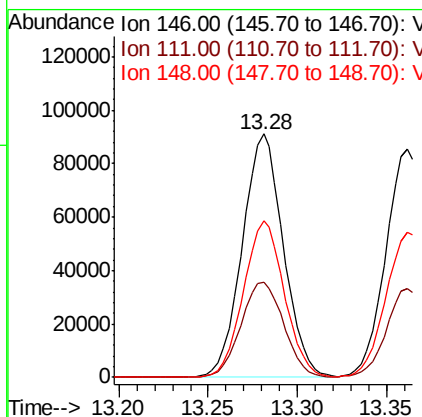
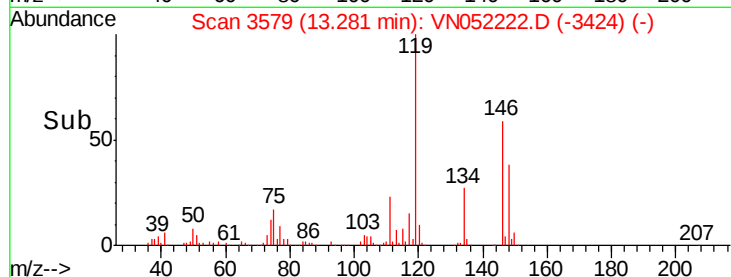
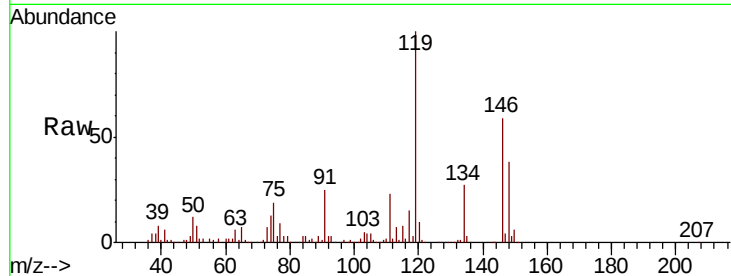
#83
 1,3-Dichlorobenzene
 Concen: 19.585 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.0	63.0
148	63.9	33.4	100.2

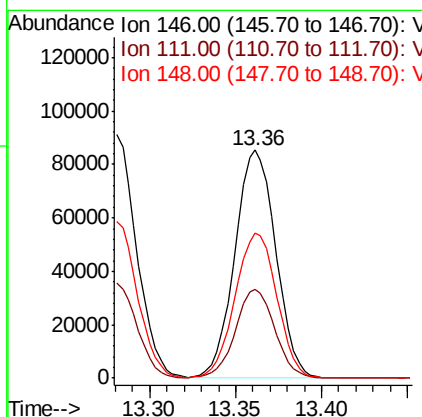
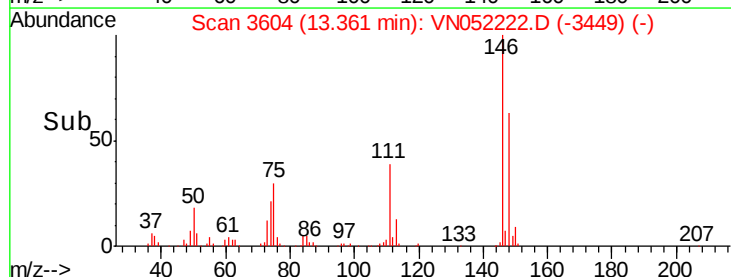
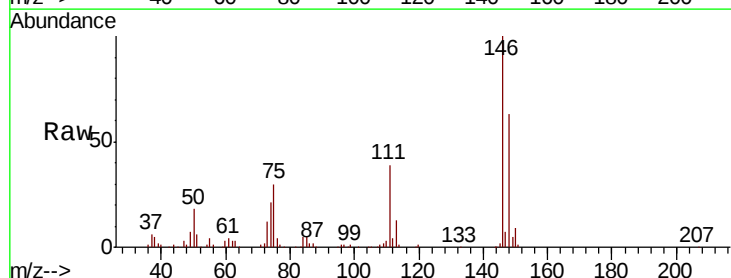
Manual Integrations
 APPROVED

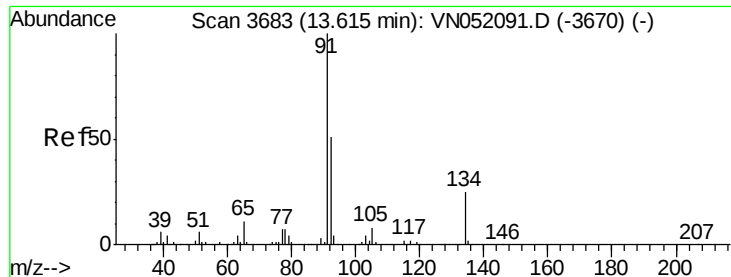
MMDadoda
 11/9/2018 1:12:48 PM



#84
 1,4-Dichlorobenzene
 Concen: 19.062 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	21.4	64.2
148	64.8	32.6	98.0





#85

n-Butylbenzene

Concen: 18.881 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Instrument :

MSVOA_N

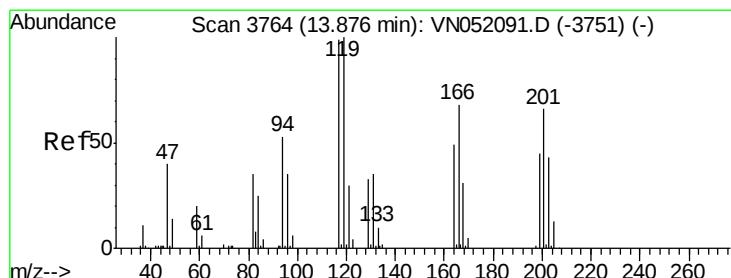
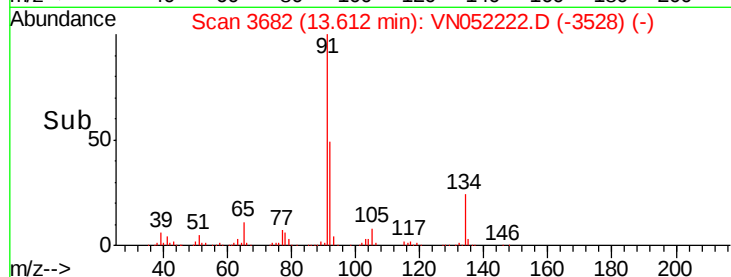
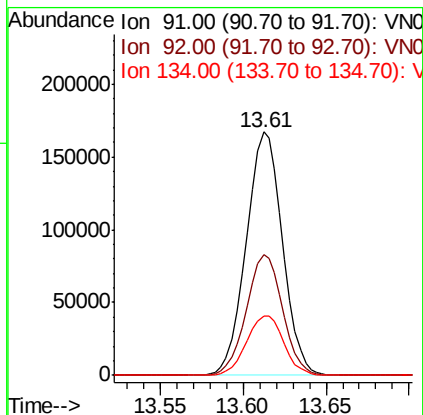
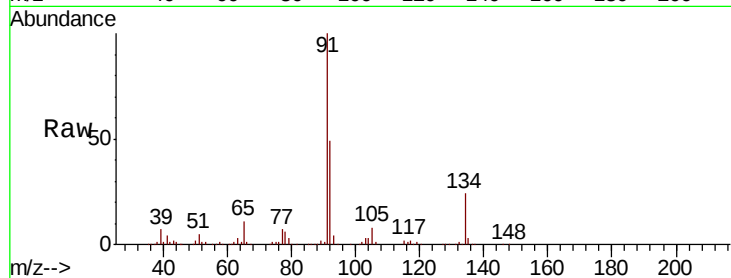
ClientSampleId :

VSTDCCC020EC

Tot Ion:	91	Resp:	254203
Ion	Ratio	Lower	Upper
91	100		
92	49.6	0.0	102.8
134	25.1	0.0	49.2

Manual Integrations
APPROVED

MMDadoda
11/9/2018 1:12:48 PM



#86

Hexachloroethane

Concen: 18.661 ug/l

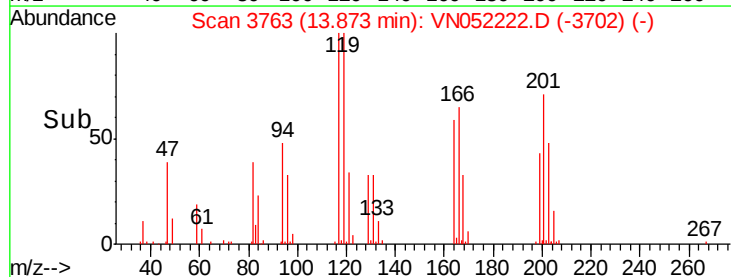
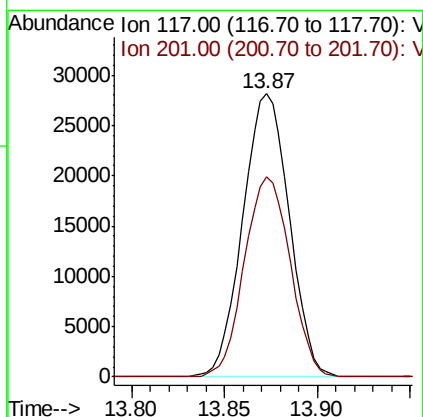
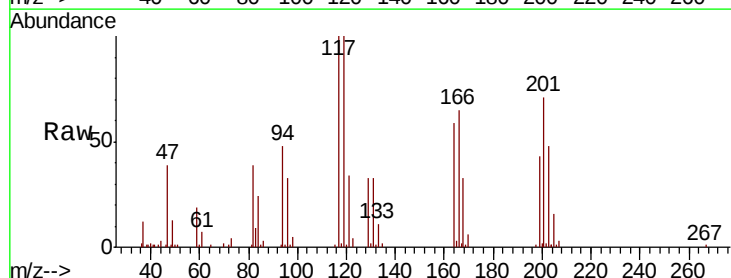
RT: 13.87 min Scan# 3763

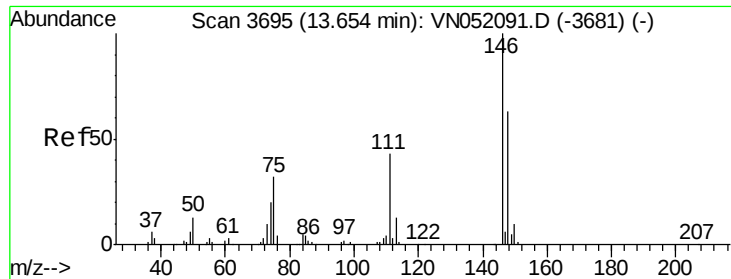
Delta R.T. -0.00 min

Lab File: VN052222.D

Acq: 8 Nov 2018 16:09

Tgt Ion:	117	Resp:	48986
Ion	Ratio	Lower	Upper
117	100		
201	69.6	32.2	96.6





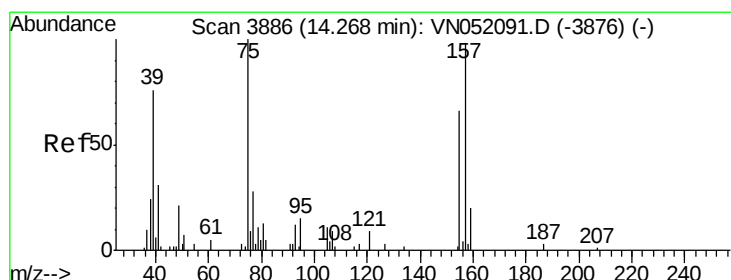
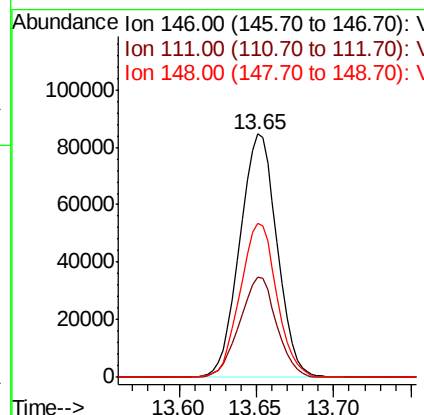
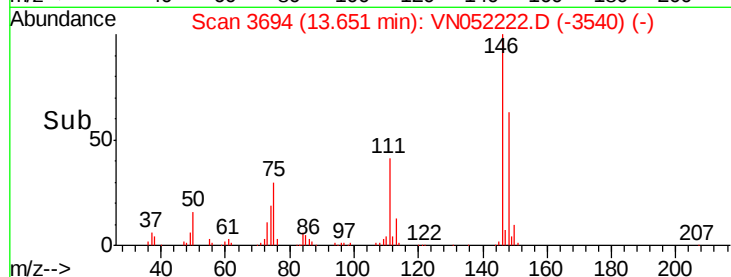
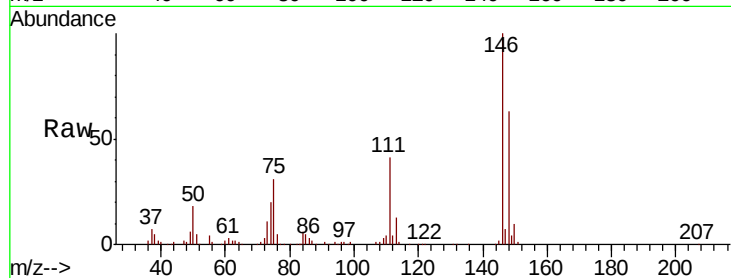
#87
 1,2-Dichlorobenzene
 Concen: 19.881 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	22.4	67.0
148	62.2	32.5	97.4

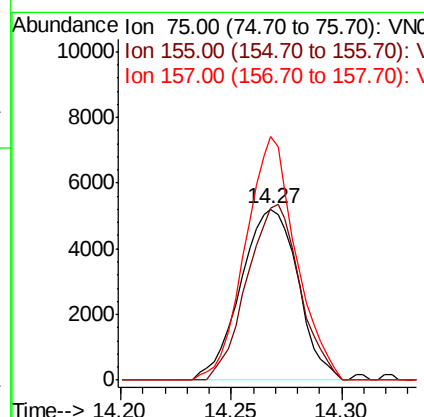
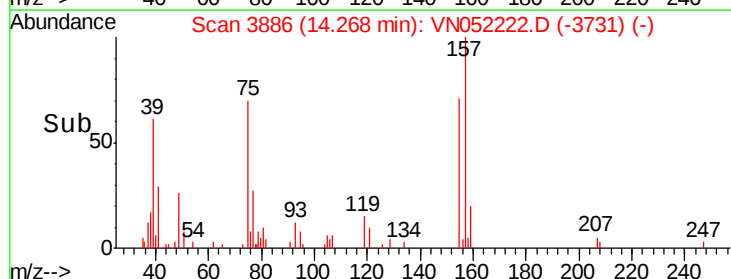
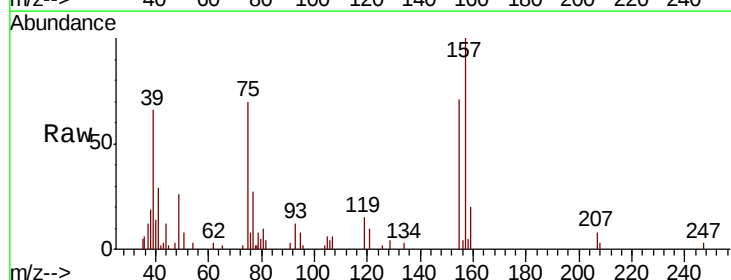
Manual Integrations
 APPROVED

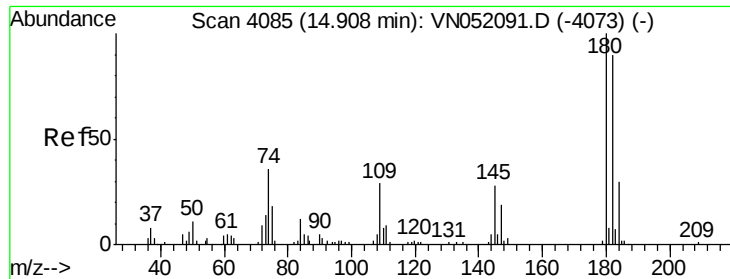
MMDadoda
 11/9/2018 1:12:48 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 16.229 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.4	56.7	85.1#
157	126.0	80.4	120.6#





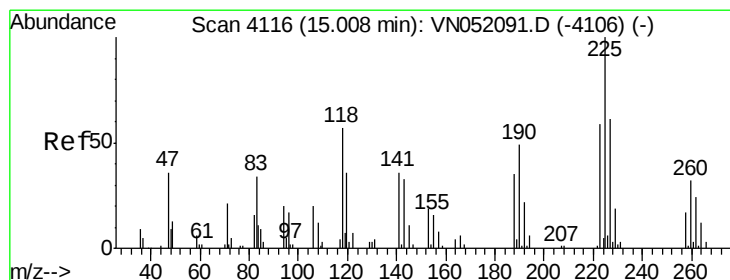
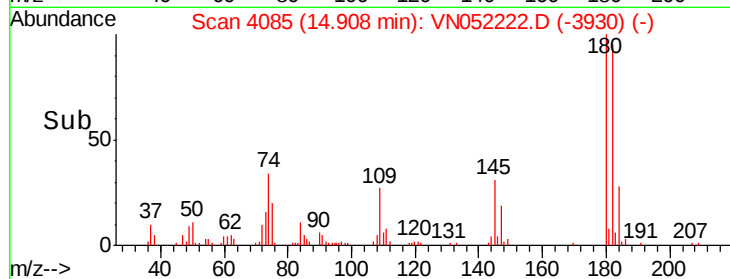
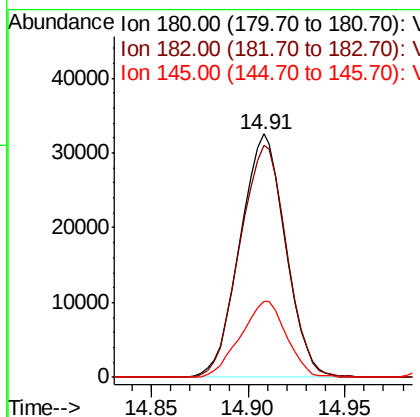
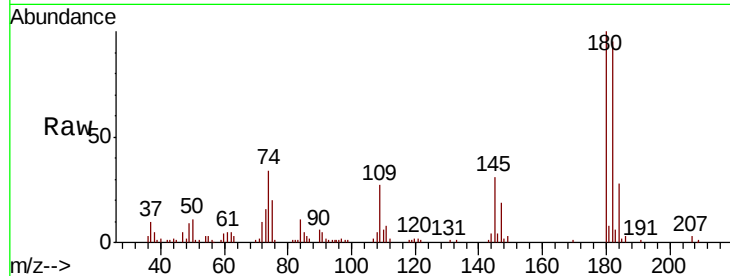
#89
 1,2,4-Trichlorobenzene
 Concen: 18.390 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	74.0	111.0
145	31.4	24.6	36.8

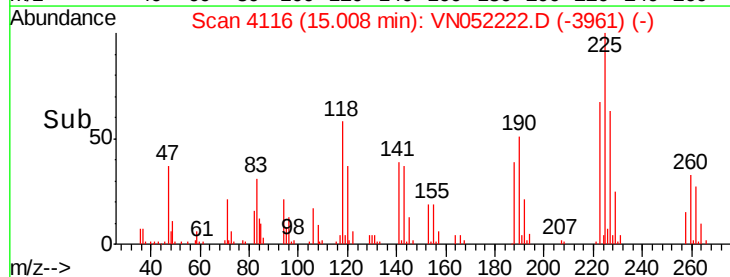
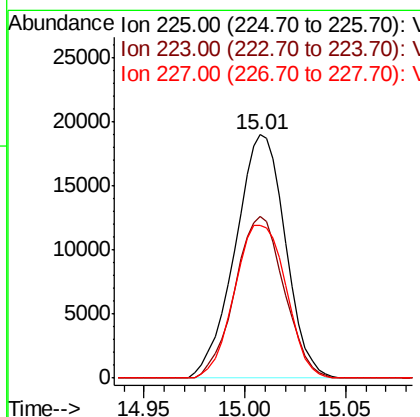
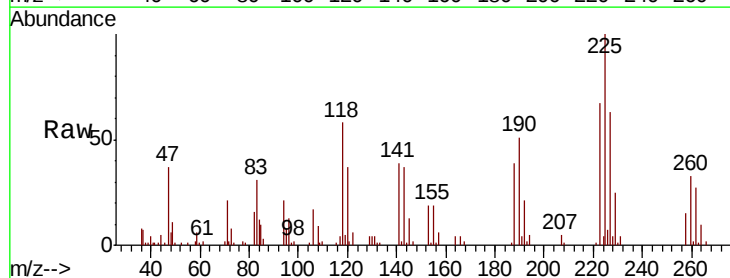
Manual Integrations
 APPROVED

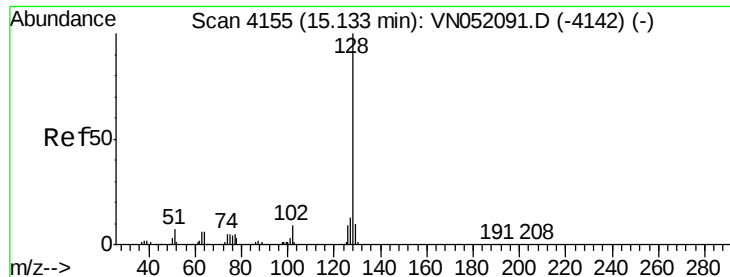
MMDadoda
 11/9/2018 1:12:48 PM



#90
 Hexachlorobutadiene
 Concen: 20.925 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN052222.D
 Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.1	0.0	121.2
227	64.6	0.0	127.2





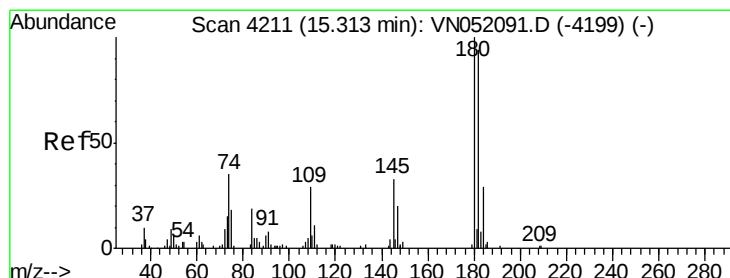
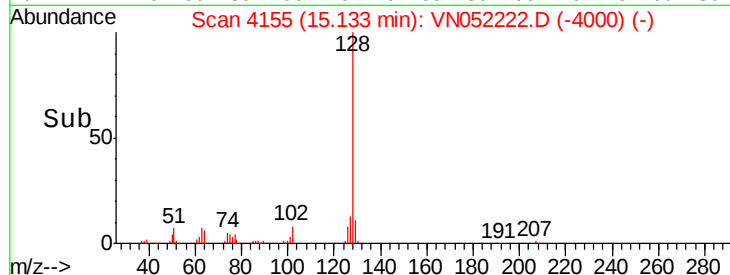
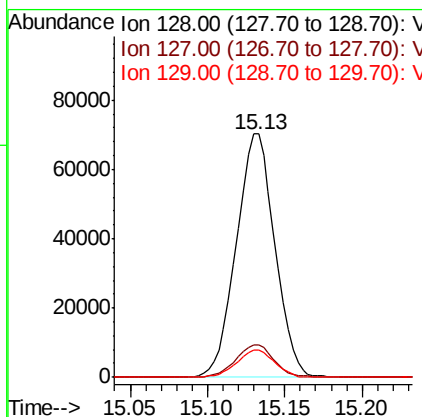
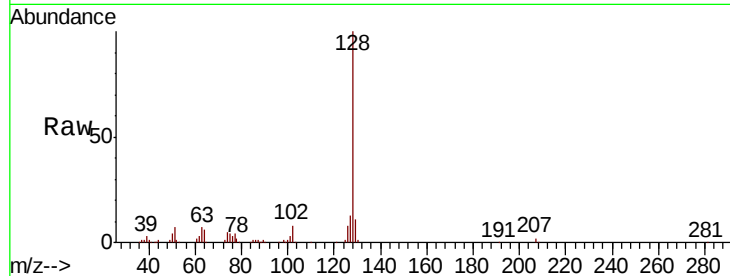
#91
Naphthalene
Concen: 18.232 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	10.9	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
11/9/2018 1:12:48 PM



#92
1,2,3-Trichlorobenzene
Concen: 19.840 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN052222.D
Acq: 8 Nov 2018 16:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.8	0.0	186.6
145	32.6	0.0	66.6

