

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022719\
 Data File : VN053974.D
 Acq On : 27 Feb 2019 17:57
 Operator : JC/SP
 Sample : VN0227WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/28/2019 2:55:37 PM

Quant Time: Feb 28 07:30:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 05:37:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	648880	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1057839	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	911422	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	397030	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	381171	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
35) Dibromofluoromethane	7.59	113	334407	48.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.78%	
50) Toluene-d8	10.09	98	1206081	47.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.72%	
62) 4-Bromofluorobenzene	12.40	95	393023	46.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	114457	19.166	ug/l	98
3) Chloromethane	2.06	50	165925	20.031	ug/l	100
4) Vinyl Chloride	2.19	62	163867	19.744	ug/l	100
5) Bromomethane	2.57	94	105291	19.156	ug/l	99
6) Chloroethane	2.71	64	97940	18.975	ug/l	98
7) Trichlorofluoromethane	3.02	101	206772	19.502	ug/l	98
8) Diethyl Ether	3.41	74	79126	19.919	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	3.76	101	127567	19.050	ug/l	94
10) Methyl Iodide	3.95	142	176964	20.111	ug/l	99
11) Tert butyl alcohol	4.78	59	47261	98.012	ug/l	100
12) 1,1-Dichloroethene	3.74	96	122650	19.148	ug/l	93
13) Acrolein	3.61	56	46306	92.754	ug/l	99
14) Allyl chloride	4.33	41	226874	20.194	ug/l	97
15) Acrylonitrile	4.99	53	259316	102.037	ug/l	98
16) Acetone	3.81	43	219403	101.758	ug/l	97
17) Carbon Disulfide	4.05	76	374412	18.119	ug/l	98
18) Methyl Acetate	4.32	43	113003	21.247	ug/l	92
19) Methyl tert-butyl Ether	5.04	73	349744	20.354	ug/l	100
20) Methylene Chloride	4.55	84	143753	19.095	ug/l	90
21) trans-1,2-Dichloroethene	5.04	96	132285	19.081	ug/l	92
22) Diisopropyl ether	5.95	45	446234	20.589	ug/l	94
23) Vinyl Acetate	5.90	43	1575414	101.041	ug/l	95
24) 1,1-Dichloroethane	5.85	63	265353	19.964	ug/l	98
25) 2-Butanone	6.83	43	304416	101.927	ug/l	95
26) 2,2-Dichloropropane	6.82	77	190198	20.142	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	151786	19.687	ug/l	95
28) Bromochloromethane	7.19	49	126581	20.806	ug/l #	80
29) Tetrahydrofuran	7.21	42	207798	104.480	ug/l	90
30) Chloroform	7.37	83	252546	19.596	ug/l	97
31) Cyclohexane	7.65	56	245261	19.917	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	206592	19.441	ug/l	97
36) 1,1-Dichloropropene	7.79	75	187914	19.102	ug/l	97
37) Ethyl Acetate	6.93	43	131531	18.725	ug/l	98
38) Carbon Tetrachloride	7.77	117	185297	18.111	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022719\
 Data File : VN053974.D
 Acq On : 27 Feb 2019 17:57
 Operator : JC/SP
 Sample : VN0227WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/28/2019 2:55:37 PM

Quant Time: Feb 28 07:30:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 05:37:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	219991	18.553	ug/l	95
40) Benzene	8.04	78	587170	19.429	ug/l	99
41) Methacrylonitrile	7.17	41	70678	15.626	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	183254	19.586	ug/l	98
43) Isopropyl Acetate	8.16	43	228190	19.240	ug/l #	93
44) Trichloroethene	8.83	130	150483	18.782	ug/l	92
45) 1,2-Dichloropropane	9.12	63	157720	19.344	ug/l	98
46) Dibromomethane	9.21	93	90751	19.172	ug/l	92
47) Bromodichloromethane	9.40	83	193917	19.439	ug/l	98
48) Methyl methacrylate	9.20	41	106900	19.596	ug/l	91
49) 1,4-Dioxane	9.20	88	28749	389.088	ug/l #	92
51) 4-Methyl-2-Pentanone	9.98	43	615798	101.041	ug/l	96
52) Toluene	10.16	92	346004	19.444	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	185278	19.088	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	218493	19.095	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	128033	19.265	ug/l	98
56) Ethyl methacrylate	10.43	69	151089	18.616	ug/l	87
57) 1,3-Dichloropropane	10.71	76	219725	19.568	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	341421	93.190	ug/l	94
59) 2-Hexanone	10.75	43	394373	99.495	ug/l	93
60) Dibromochloromethane	10.90	129	135542	18.351	ug/l	100
61) 1,2-Dibromoethane	11.01	107	120381	18.777	ug/l	98
64) Tetrachloroethene	10.63	164	143953	18.652	ug/l	98
65) Chlorobenzene	11.43	112	359582	18.694	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	134524	19.405	ug/l	99
67) Ethyl Benzene	11.51	91	616460	19.117	ug/l	99
68) m/p-Xylenes	11.62	106	470870	38.689	ug/l	97
69) o-Xylene	11.95	106	228073	19.072	ug/l	98
70) Styrene	11.96	104	362638	19.715	ug/l	98
71) Bromoform	12.13	173	89425	18.542	ug/l #	99
73) Isopropylbenzene	12.25	105	605228	19.583	ug/l	99
74) N-amyl acetate	12.07	43	166113	20.507	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.50	83	152438	19.724	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	127394m	20.002	ug/l	
77) Bromobenzene	12.53	156	150304	19.155	ug/l	90
78) n-propylbenzene	12.59	91	694554	19.761	ug/l	98
79) 2-Chlorotoluene	12.68	91	419316	19.859	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	504019	19.920	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	36448	18.087	ug/l	90
82) 4-Chlorotoluene	12.77	91	416169	19.943	ug/l	95
83) tert-Butylbenzene	12.99	119	453076	20.247	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	504272	19.963	ug/l	99
85) sec-Butylbenzene	13.17	105	612976	20.055	ug/l	98
86) p-Isopropyltoluene	13.29	119	514725	19.921	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	257557	18.974	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	251662	19.110	ug/l	98
89) n-Butylbenzene	13.62	91	429817	19.738	ug/l	99
90) Hexachloroethane	13.87	117	92093	18.393	ug/l	93
91) 1,2-Dichlorobenzene	13.65	146	254462	19.365	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	20562	18.827	ug/l	92

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022719\
Data File : VN053974.D
Acq On : 27 Feb 2019 17:57
Operator : JC/SP
Sample : VN0227WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

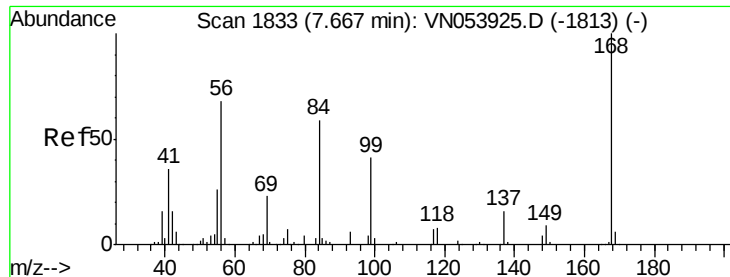
Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM

Quant Time: Feb 28 07:30:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
Quant Title : SW846 8260
QLast Update : Tue Feb 26 05:37:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	119843	17.915	ug/l	98
94) Hexachlorobutadiene	15.01	225	92986	19.590	ug/l	99
95) Naphthalene	15.13	128	241334	17.577	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	119549	18.104	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBSD01

Tot Ion:168 Resp: 648880

Ion Ratio Lower Upper

168 100

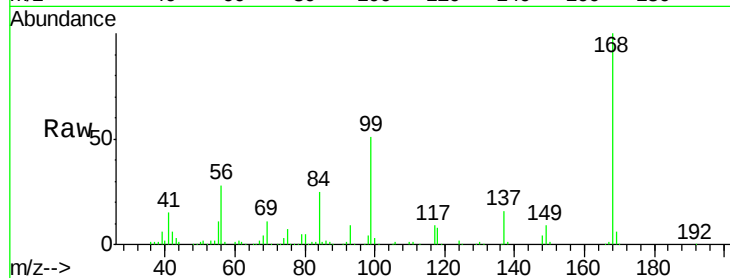
99 50.4 36.9 55.3

Manual Integrations

APPROVED

MMDadoda

2/28/2019 2:55:37 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

150000

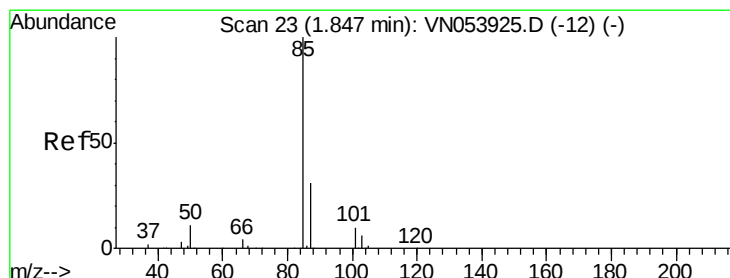
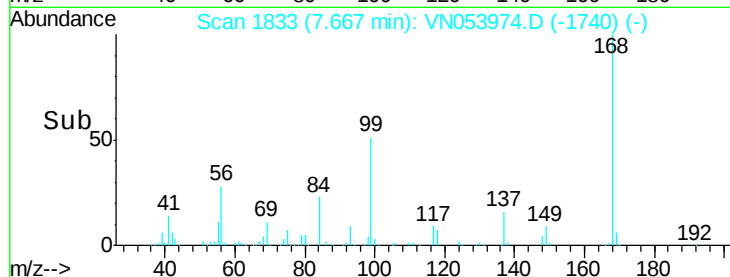
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 19.166 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN053974.D

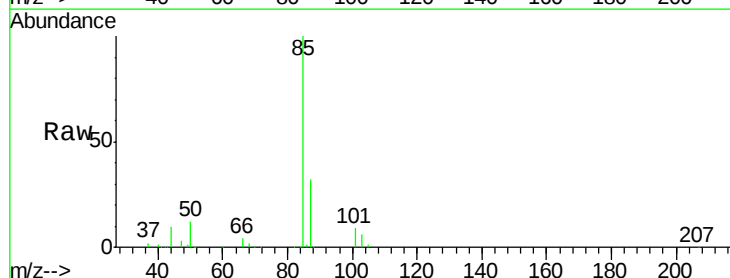
Acq: 27 Feb 2019 17:57

Tgt Ion: 85 Resp: 114457

Ion Ratio Lower Upper

85 100

87 31.8 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

80000

60000

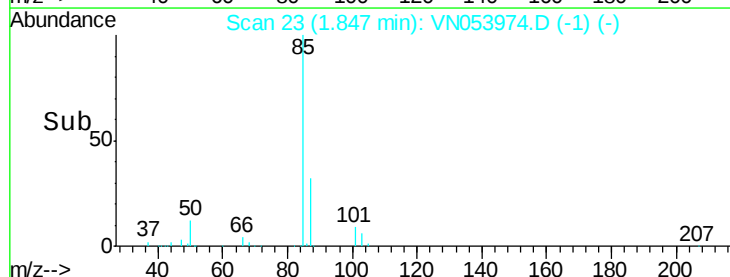
40000

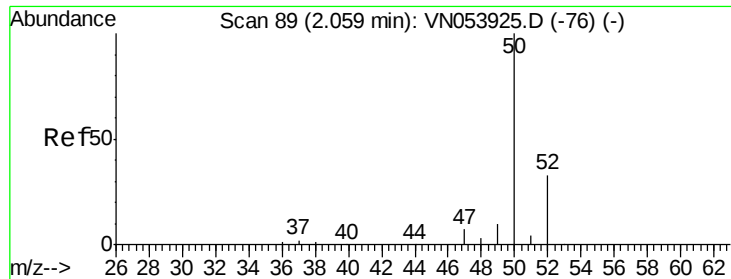
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 20.031 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBSD01

Tot Ion: 50 Resp: 165925

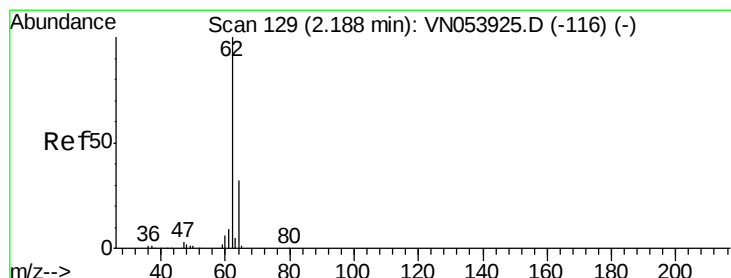
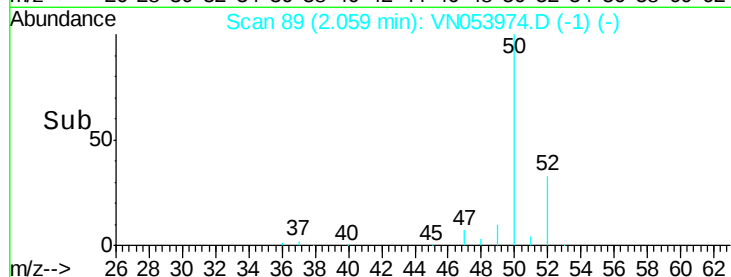
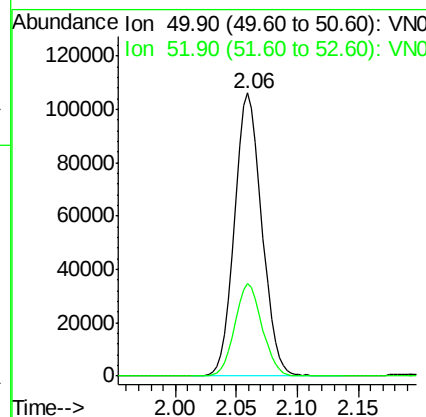
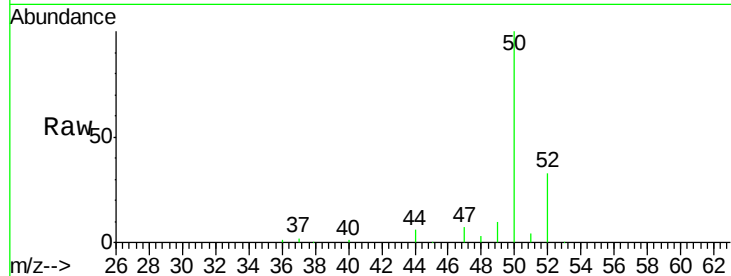
Ion Ratio Lower Upper

50 100

52 32.7 26.0 39.0

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



#4

Vinyl Chloride

Concen: 19.744 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN053974.D

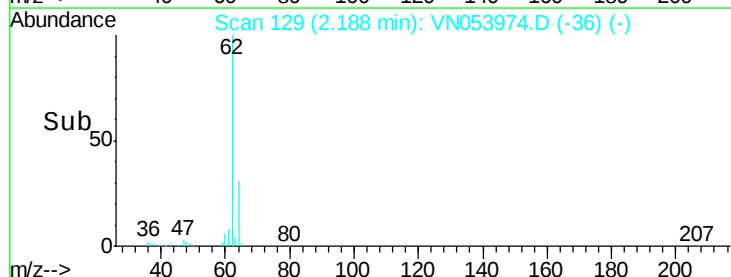
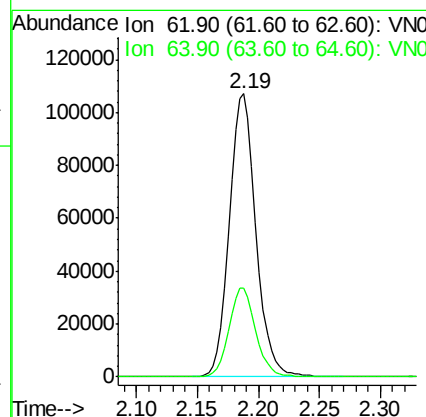
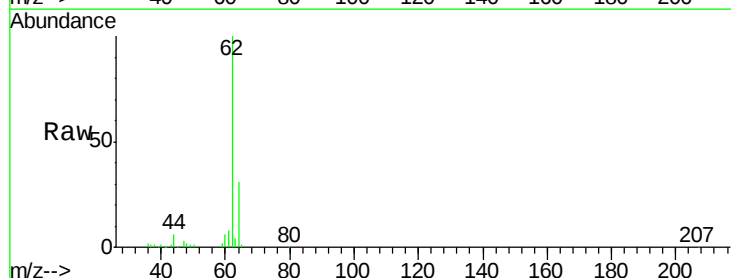
Acq: 27 Feb 2019 17:57

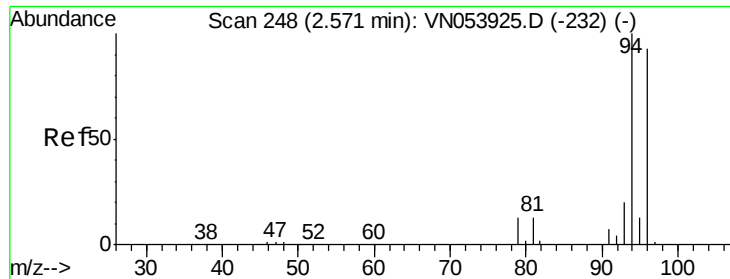
Tgt Ion: 62 Resp: 163867

Ion Ratio Lower Upper

62 100

64 31.5 25.1 37.7





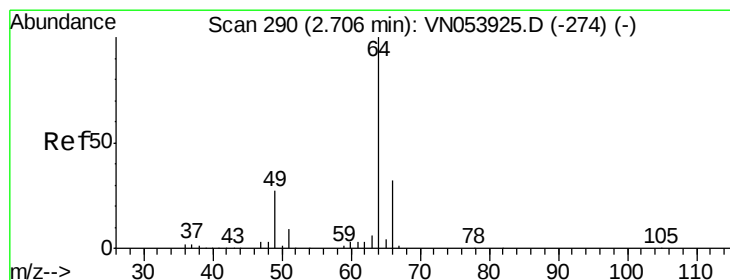
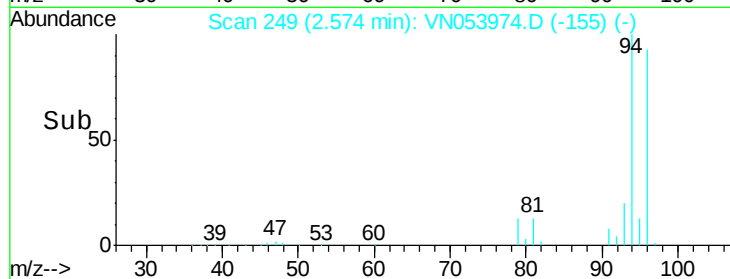
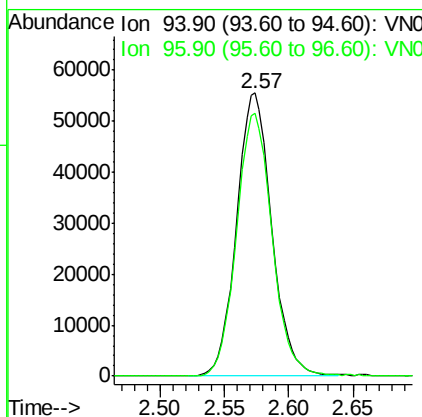
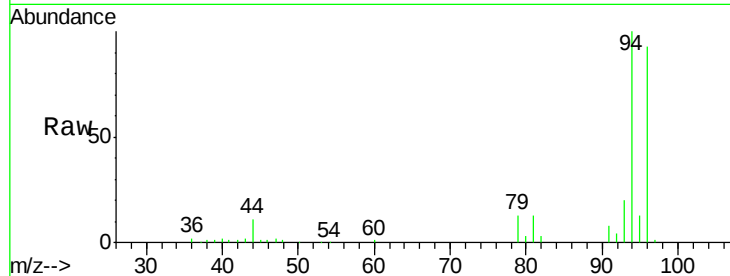
#5
Bromomethane
Concen: 19.156 ug/l
RT: 2.57 min Scan# 249
Delta R.T. 0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
94	100		105291		
96	92.8	74.9	112.3		

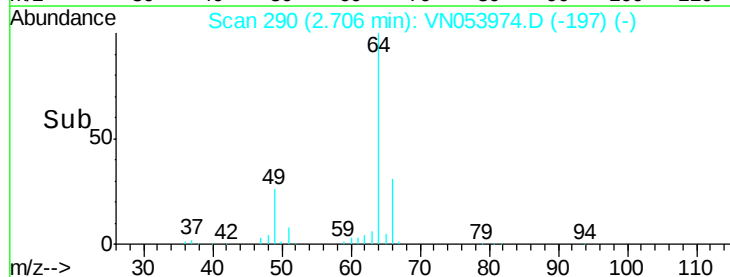
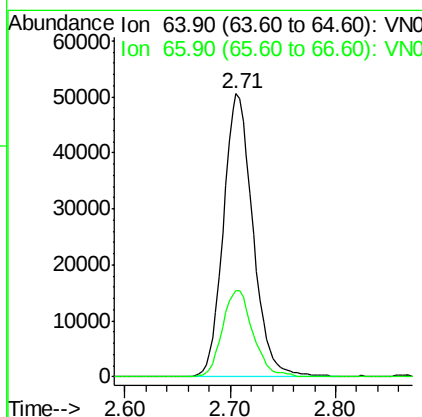
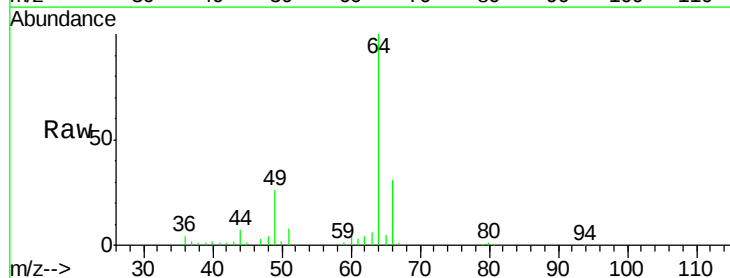
Manual Integrations
APPROVED

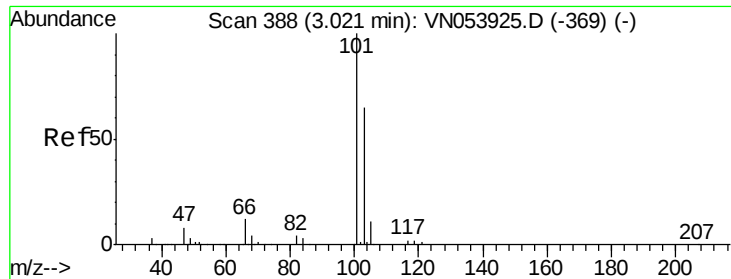
MMDadoda
2/28/2019 2:55:37 PM



#6
Chloroethane
Concen: 18.975 ug/l
RT: 2.71 min Scan# 290
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
64	100		97940		
66	30.5	25.5	38.3		





#7

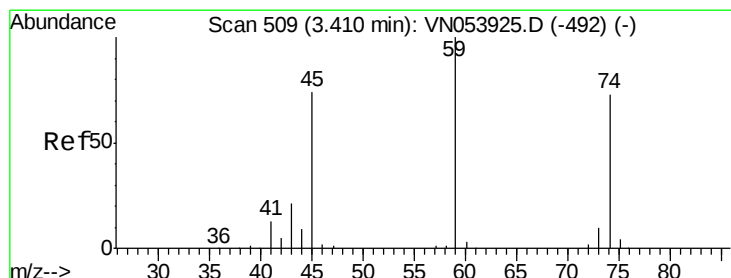
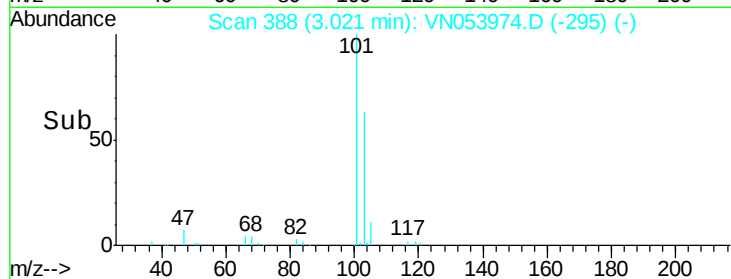
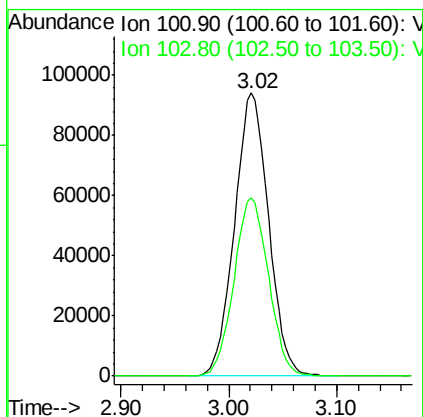
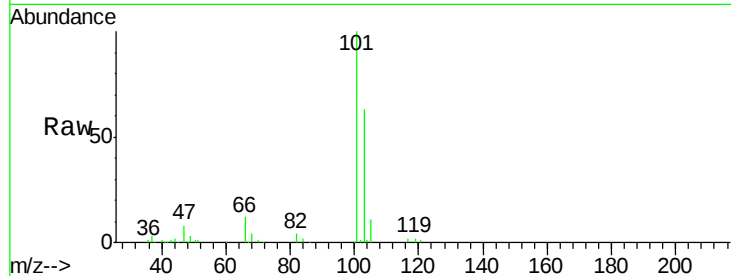
Trichlorofluoromethane
 Concen: 19.502 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		206772		
103	63.2	51.9	77.9		

Manual Integrations
 APPROVED

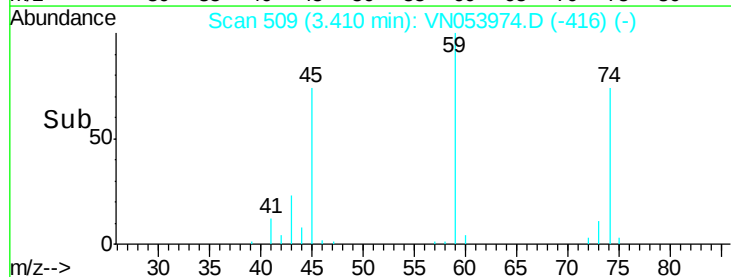
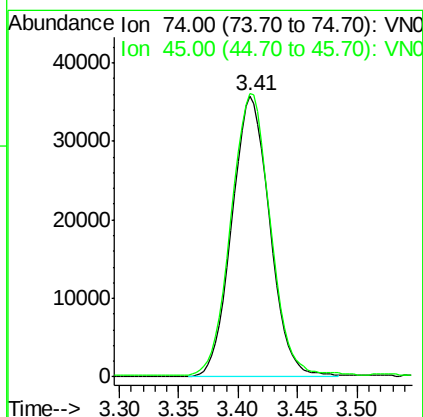
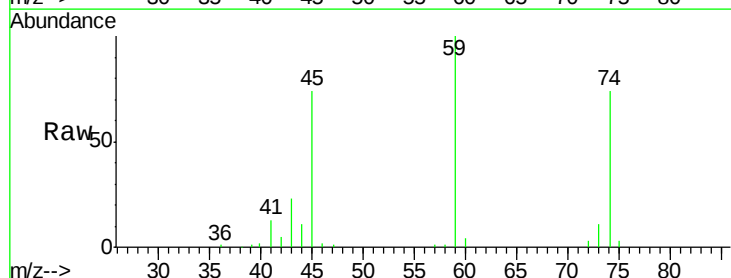
MMDadoda
 2/28/2019 2:55:37 PM

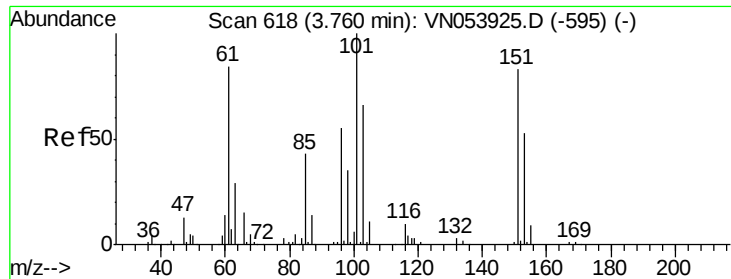


#8

Diethyl Ether
 Concen: 19.919 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		79126		
45	103.5	46.9	140.6		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.050 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

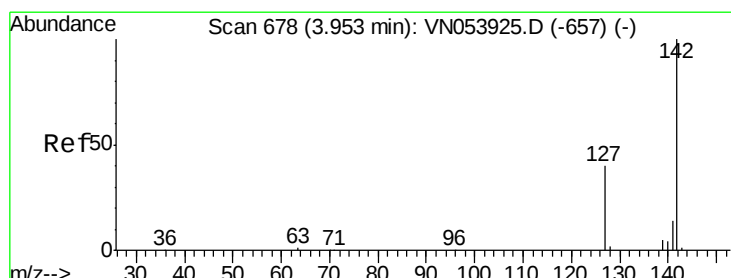
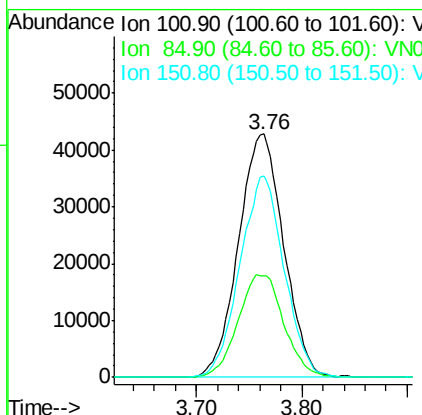
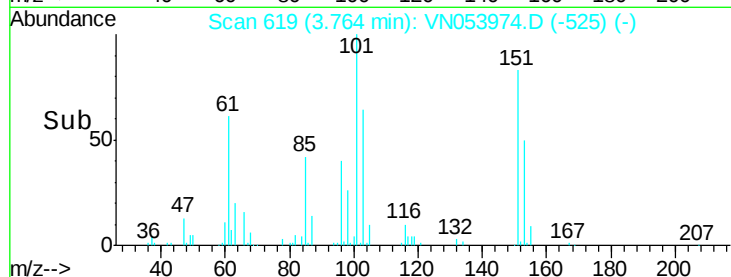
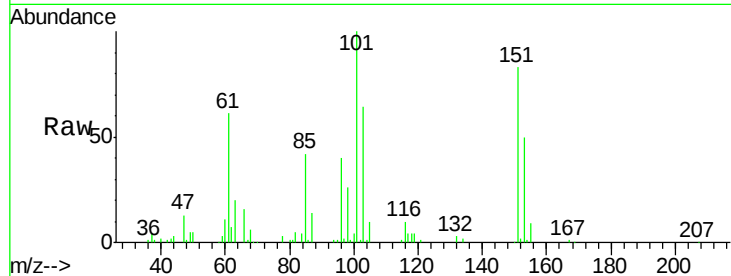
ClientSampleId :

VN0227WBSD01

Tot Ion:	101	Resp:	127567
Ion Ratio	Lower	Upper	
101	100		
85	42.6	32.5	48.7
151	81.0	70.2	105.2

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



#10

Methyl Iodide

Concen: 20.111 ug/l

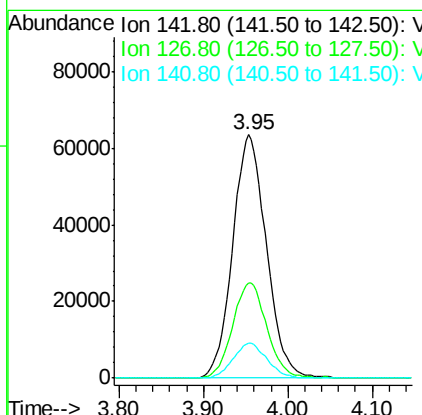
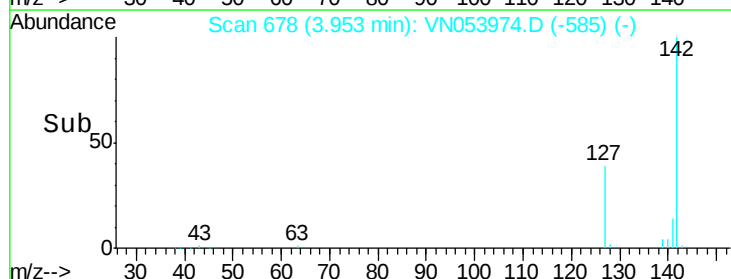
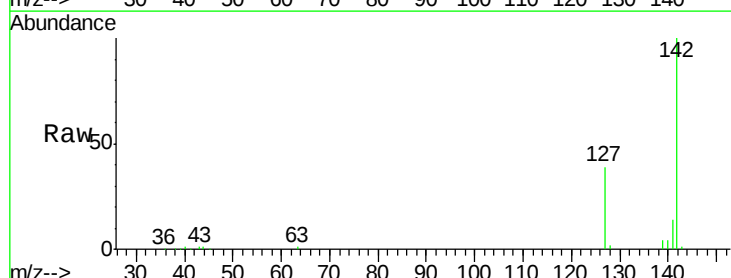
RT: 3.95 min Scan# 678

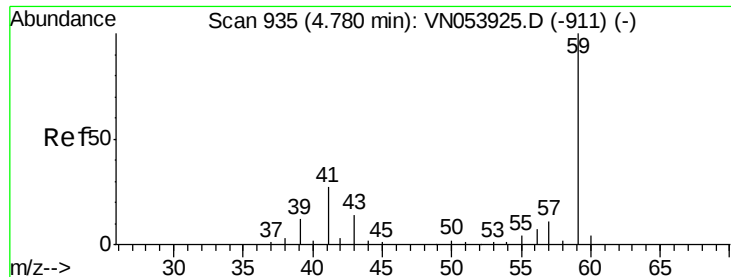
Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Tgt Ion:	142	Resp:	176964
Ion Ratio	Lower	Upper	
142	100		
127	39.6	31.0	46.4
141	14.3	11.3	16.9





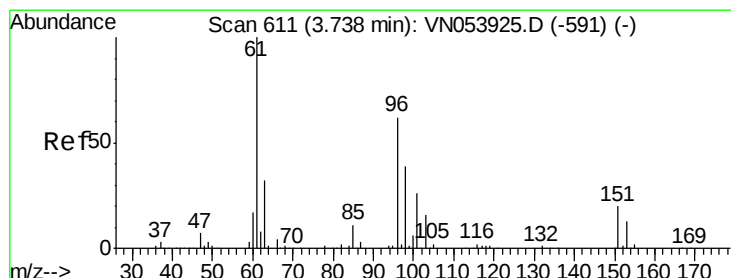
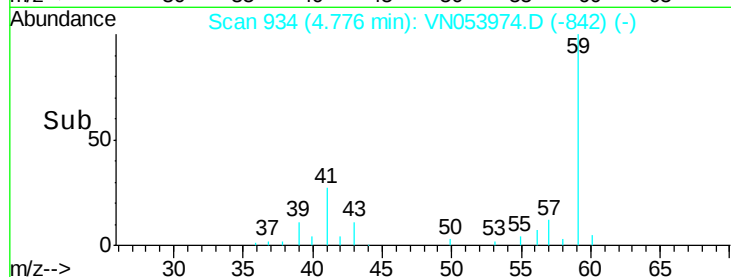
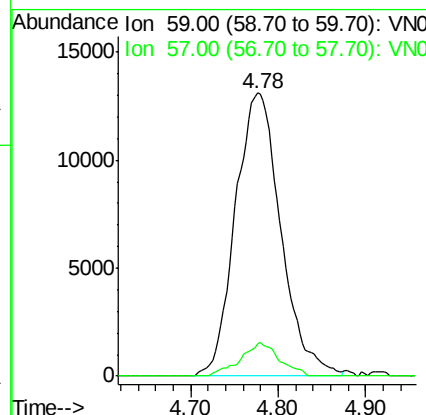
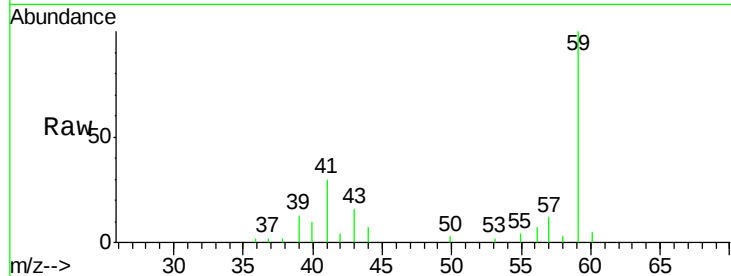
#11
Tert butyl alcohol
Concen: 98.012 ug/l
RT: 4.78 min Scan# 934
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion	59	Resp	47261
Ion Ratio	100	Lower	Upper
57	10.2	8.1	12.1

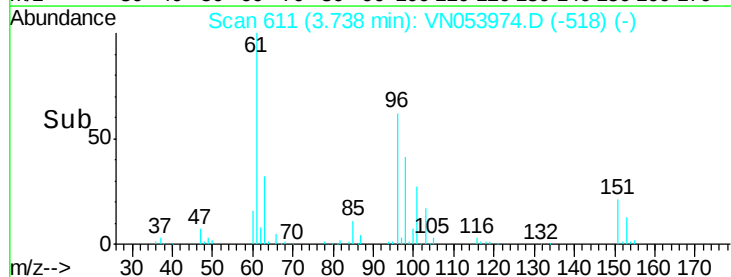
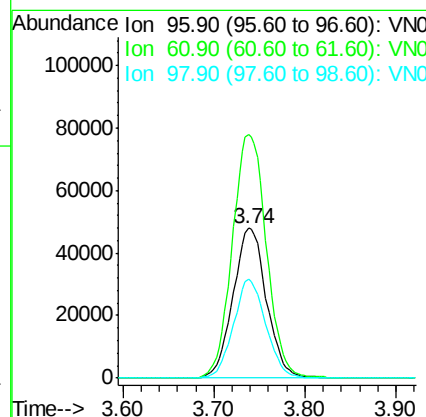
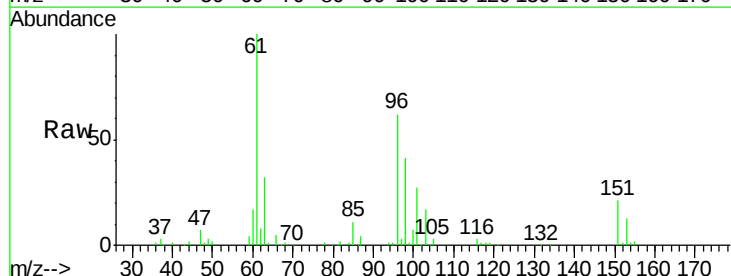
Manual Integrations
APPROVED

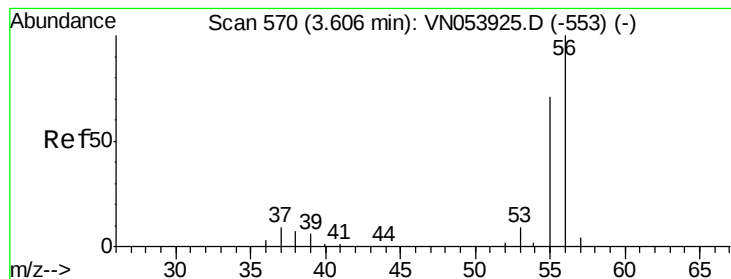
MMDadoda
2/28/2019 2:55:37 PM



#12
1,1-Dichloroethene
Concen: 19.148 ug/l
RT: 3.74 min Scan# 611
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion	96	Resp	122650
Ion Ratio	100	Lower	Upper
61	162.5	121.0	181.4
98	66.1	52.2	78.2





#13

Acrolein

Concen: 92.754 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBSD01

Tot Ion: 56 Resp: 46306

Ion Ratio Lower Upper

56 100

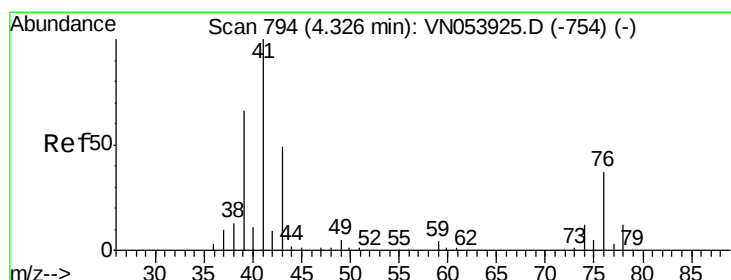
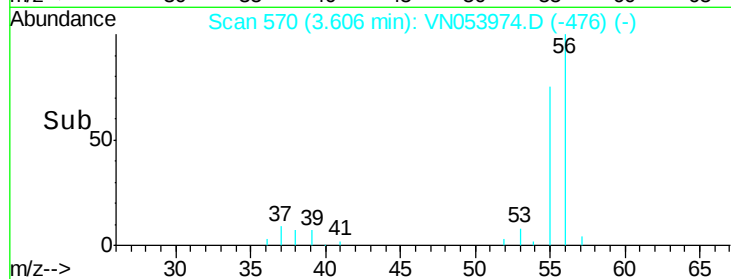
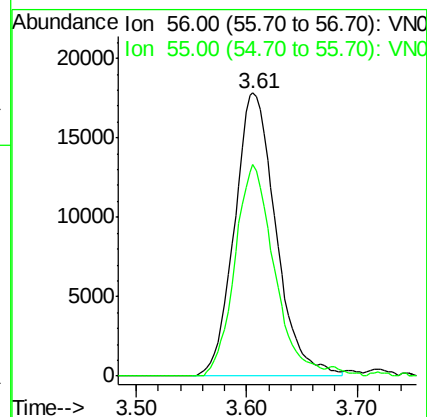
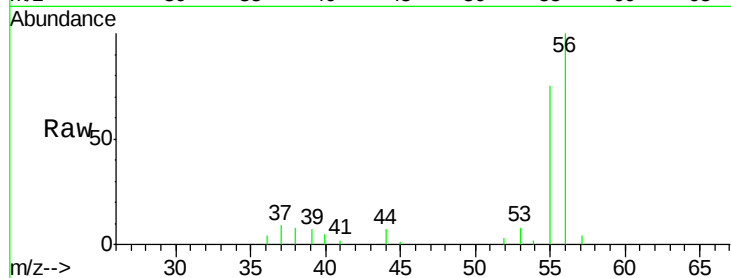
55 70.9 56.3 84.5

Manual Integrations

APPROVED

MMDadoda

2/28/2019 2:55:37 PM



#14

Allyl chloride

Concen: 20.194 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

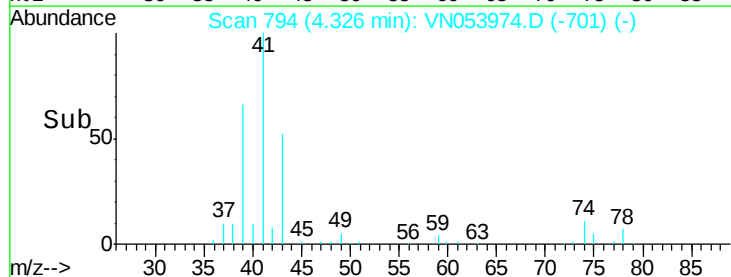
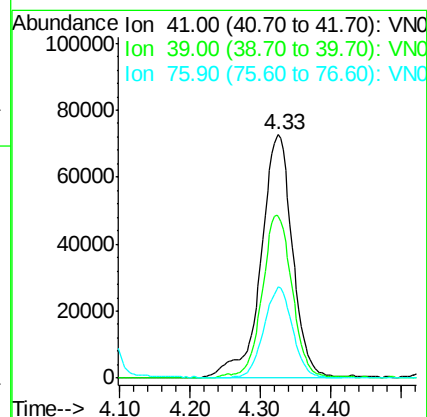
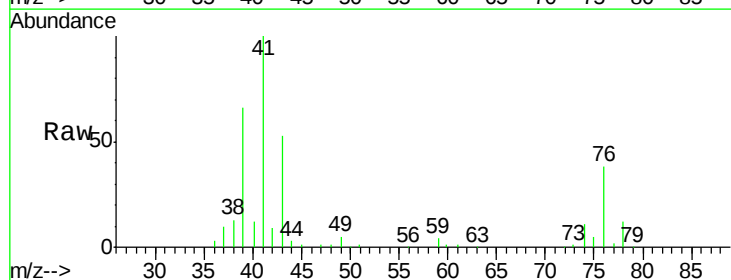
Tgt Ion: 41 Resp: 226874

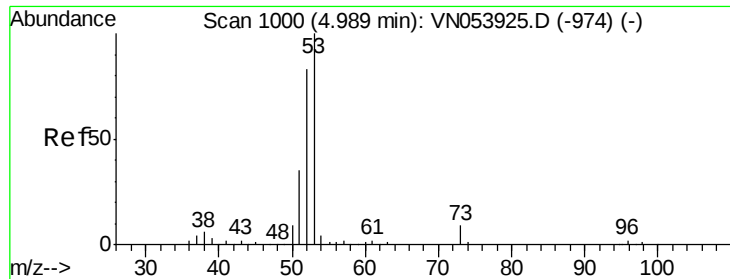
Ion Ratio Lower Upper

41 100

39 61.6 48.8 73.2

76 34.1 30.9 46.3





#15

Acrylonitrile

Concen: 102.037 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

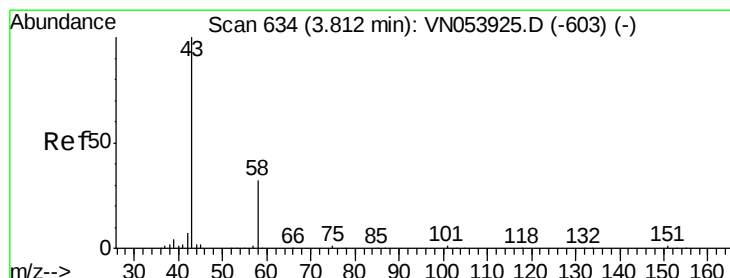
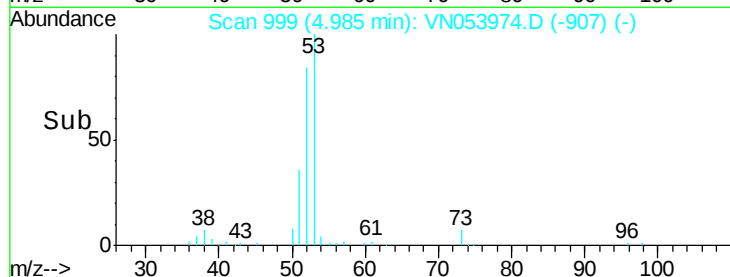
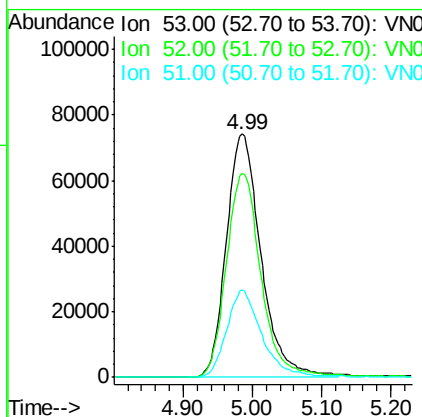
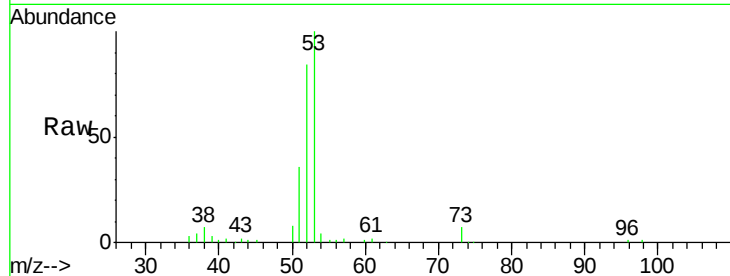
ClientSampleId :

VN0227WBSD01

Tot Ion:	53	Resp:	259316
Ion Ratio		Lower	Upper
53	100		
52	83.1	65.1	97.7
51	36.1	28.2	42.4

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



#16

Acetone

Concen: 101.758 ug/l

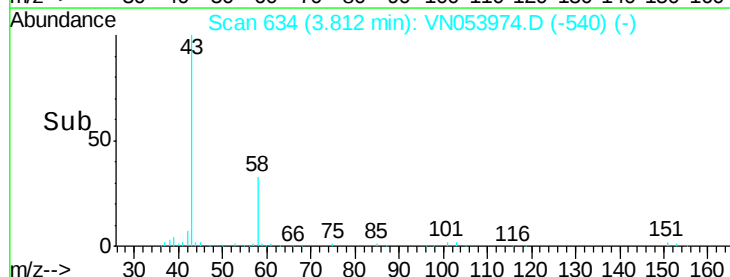
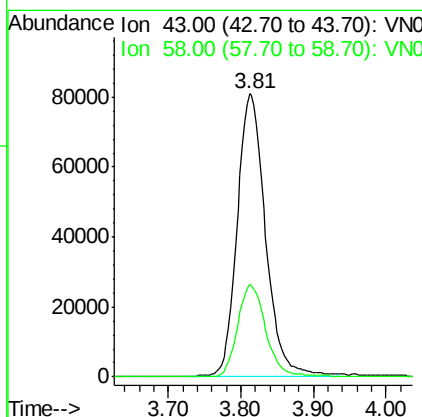
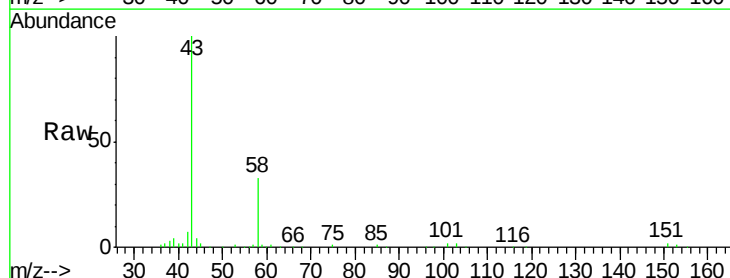
RT: 3.81 min Scan# 634

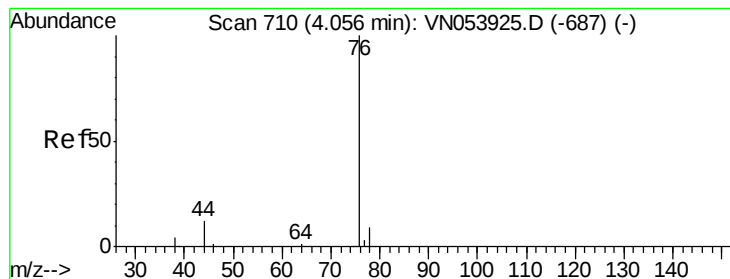
Delta R.T. 0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Tgt Ion:	43	Resp:	219403
Ion Ratio		Lower	Upper
43	100		
58	33.0	27.6	41.4





#17

Carbon Disulfide

Concen: 18.119 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBSD01

Tot Ion: 76 Resp: 374412

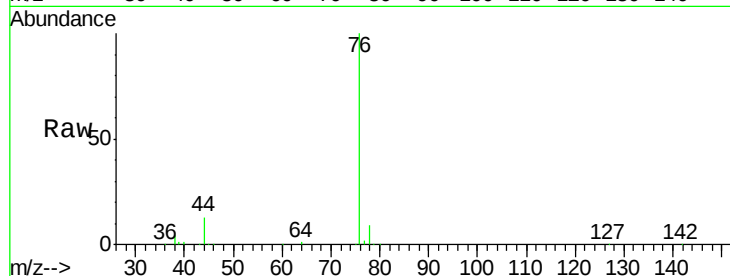
Ion Ratio Lower Upper

76 100

78 8.8 7.5 11.3

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

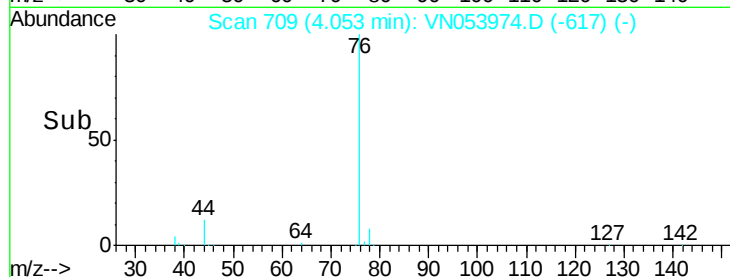
150000

100000

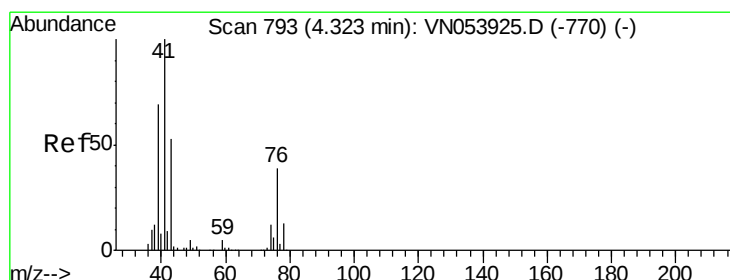
50000

0

Time-->



Time-->



#18

Methyl Acetate

Concen: 21.247 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN053974.D

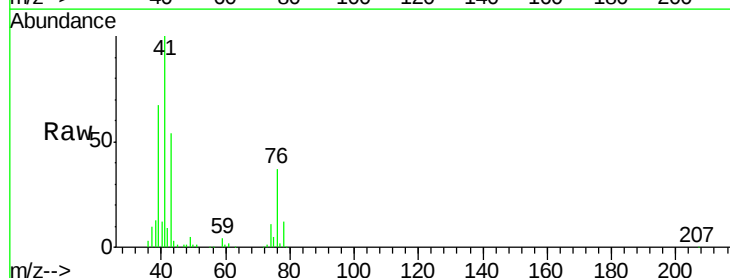
Acq: 27 Feb 2019 17:57

Tgt Ion: 43 Resp: 113003

Ion Ratio Lower Upper

43 100

74 21.4 20.5 30.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

40000

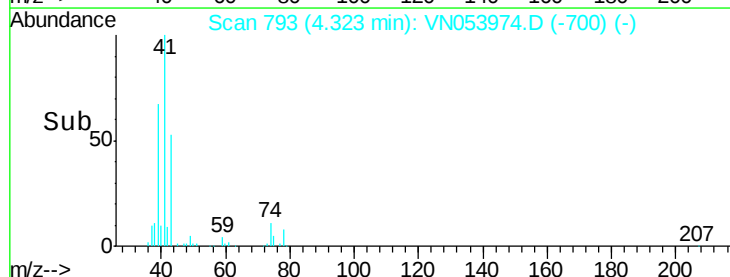
30000

20000

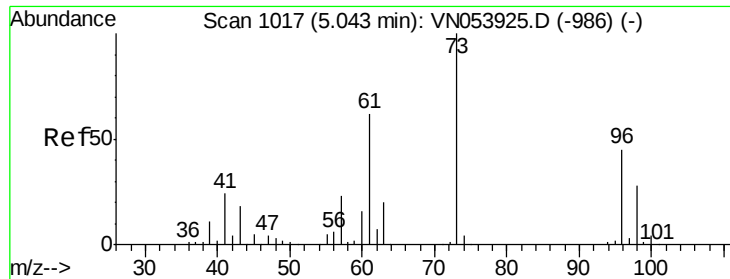
10000

0

Time-->



Time-->



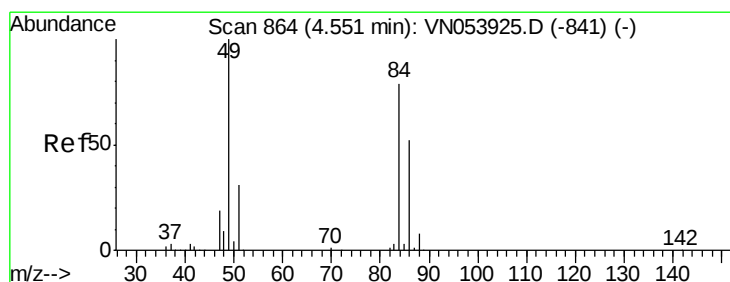
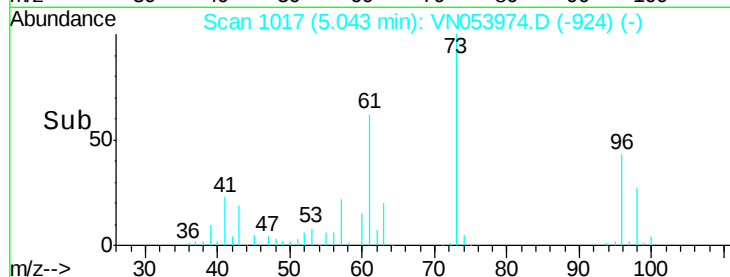
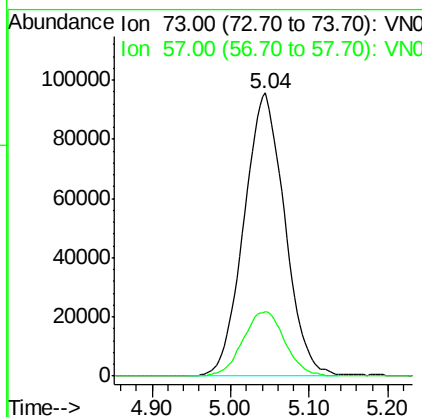
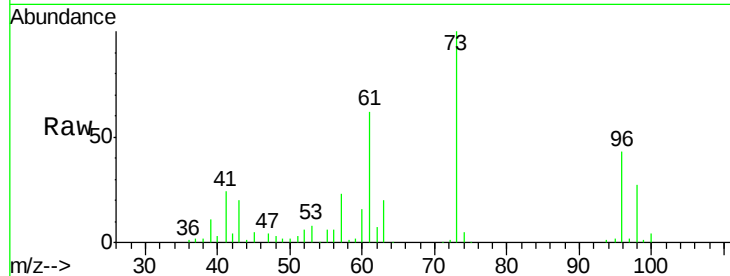
#19
Methvl tert-butvl Ether
Concen: 20.354 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion: 73 Resp: 349744
Ion Ratio Lower Upper
73 100
57 22.6 18.0 27.0

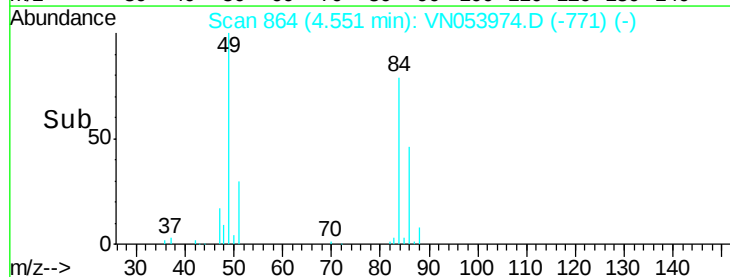
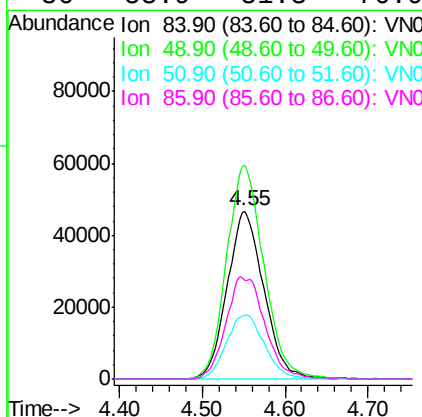
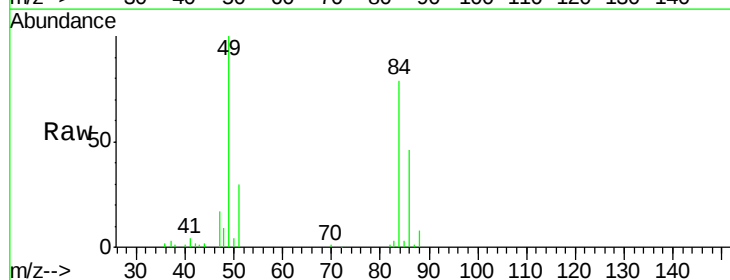
Manual Integrations
APPROVED

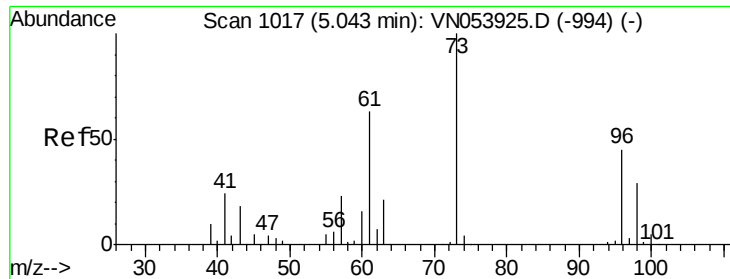
MMDadoda
2/28/2019 2:55:37 PM



#20
Methylene Chloride
Concen: 19.095 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion: 84 Resp: 143753
Ion Ratio Lower Upper
84 100
49 126.7 89.7 134.5
51 37.8 27.8 41.8
86 58.9 51.3 76.9





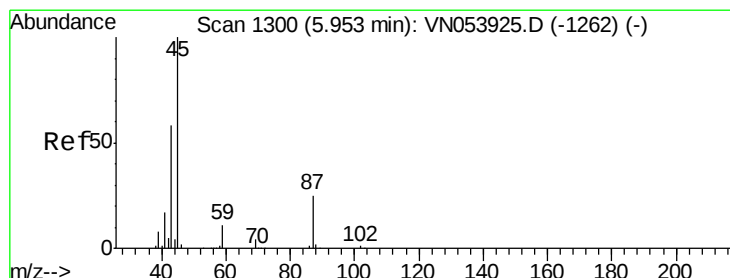
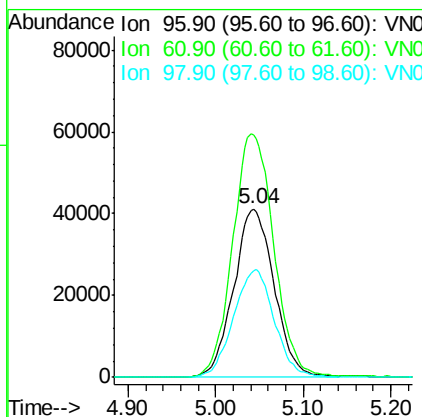
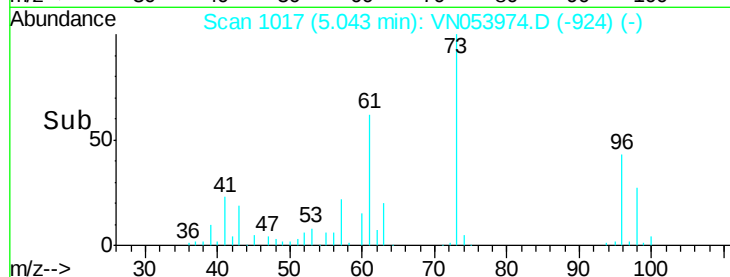
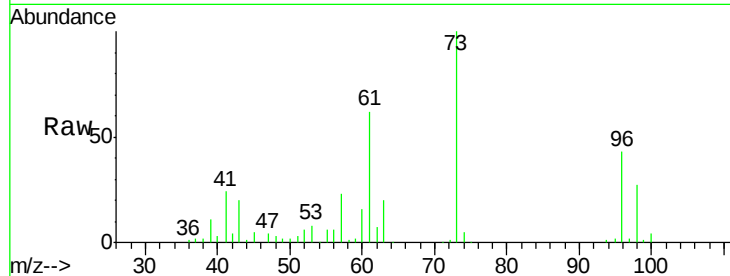
#21
trans-1,2-Dichloroethene
Concen: 19.081 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.3	104.5	156.7
98	63.4	50.6	76.0

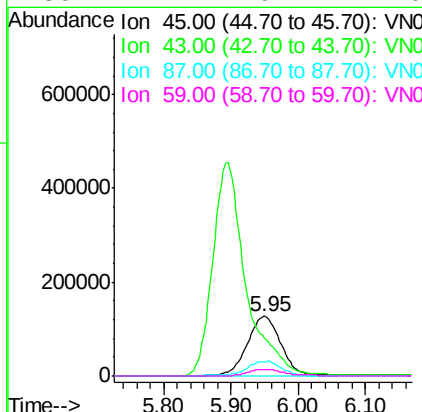
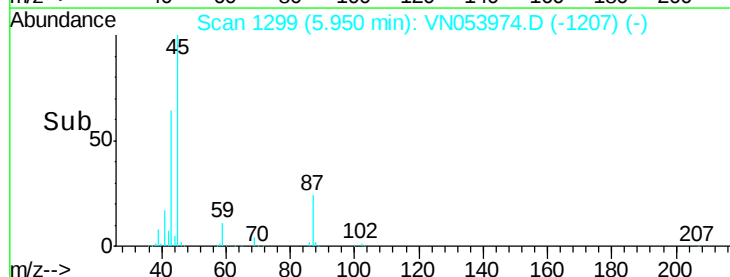
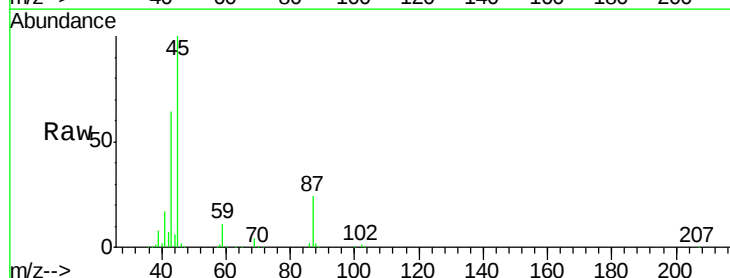
Manual Integrations
APPROVED

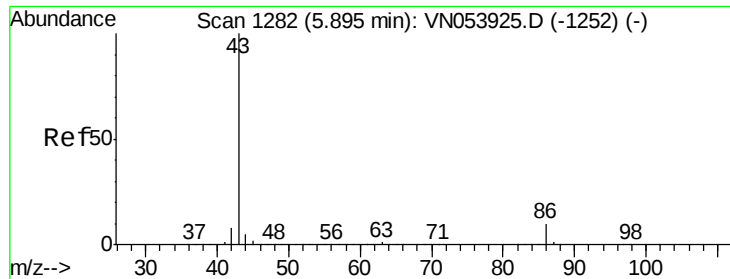
MMDadoda
2/28/2019 2:55:37 PM



#22
Diisopropyl ether
Concen: 20.589 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.9	46.2	69.4
87	23.9	23.4	35.0
59	11.1	9.4	14.0





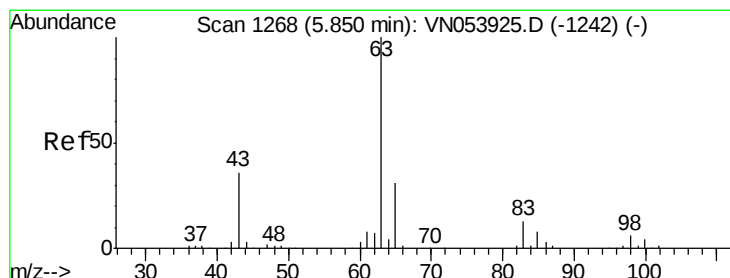
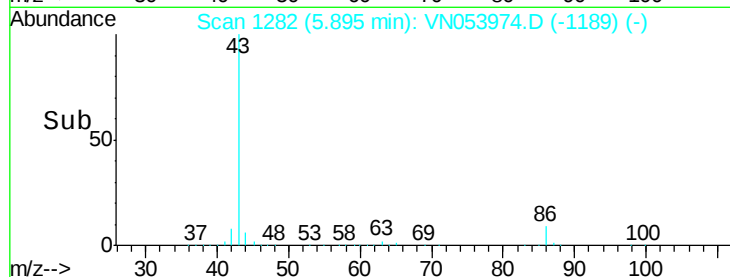
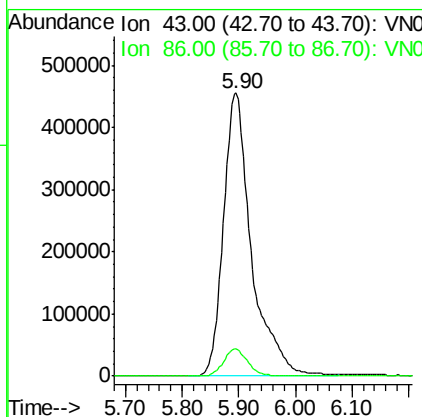
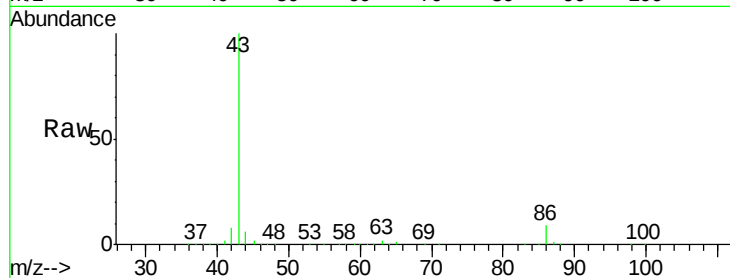
#23
 Vinyl Acetate
 Concen: 101.041 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBSD01

Tot Ion: 43 Resp: 1575414
 Ion Ratio Lower Upper
 43 100
 86 9.5 9.1 13.7

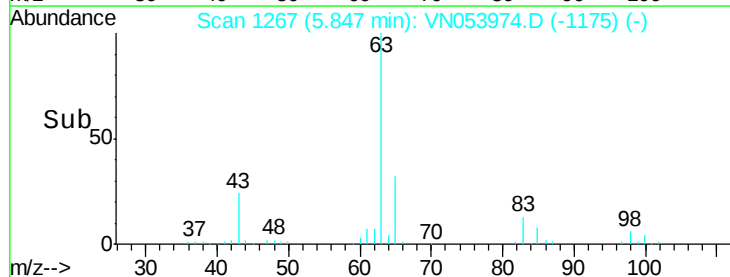
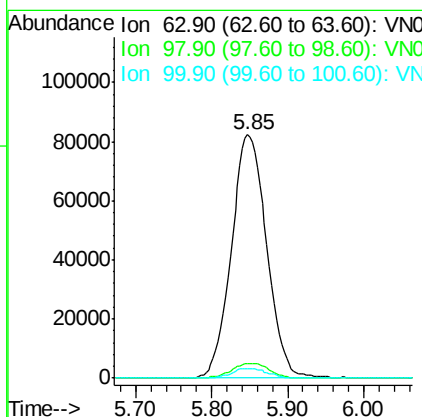
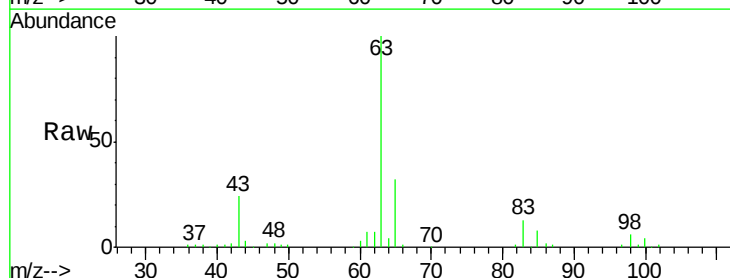
Manual Integrations
 APPROVED

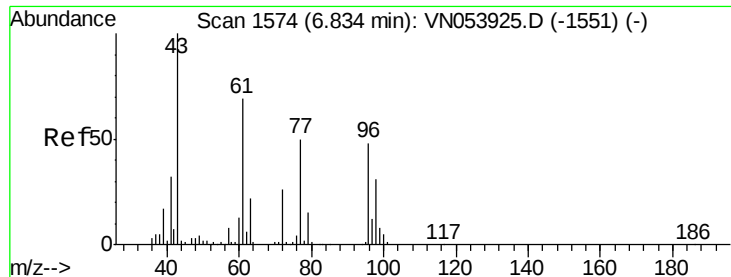
MMDadoda
 2/28/2019 2:55:37 PM



#24
 1,1-Dichloroethane
 Concen: 19.964 ug/l
 RT: 5.85 min Scan# 1267
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Tgt Ion: 63 Resp: 265353
 Ion Ratio Lower Upper
 63 100
 98 6.0 3.4 10.2
 100 4.1 2.2 6.6





#25

2-Butanone

Concen: 101.927 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBSD01

Tot Ion: 43 Resp: 304416

Ion Ratio Lower Upper

43 100

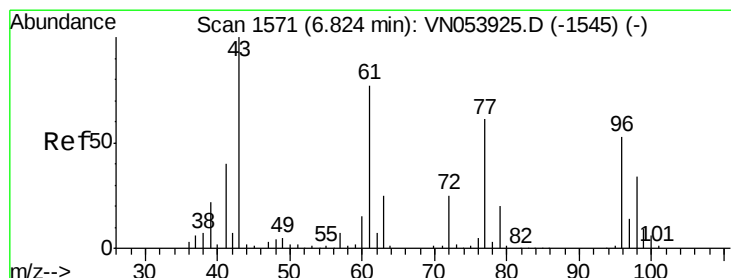
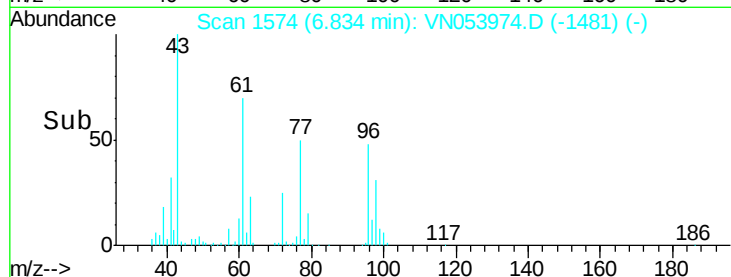
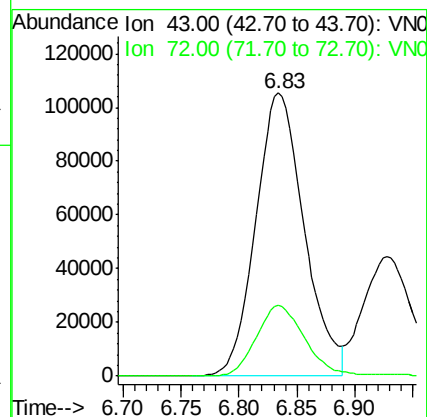
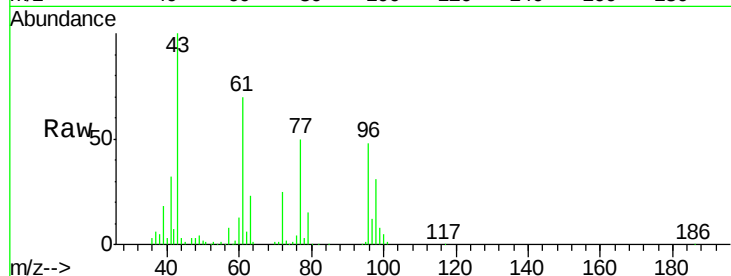
72 24.9 22.1 33.1

Manual Integrations

APPROVED

MMDadoda

2/28/2019 2:55:37 PM



#26

2,2-Dichloropropane

Concen: 20.142 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN053974.D

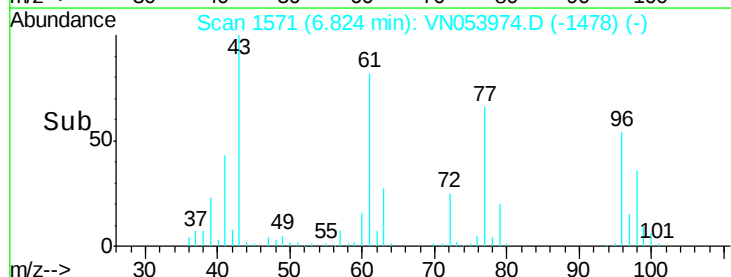
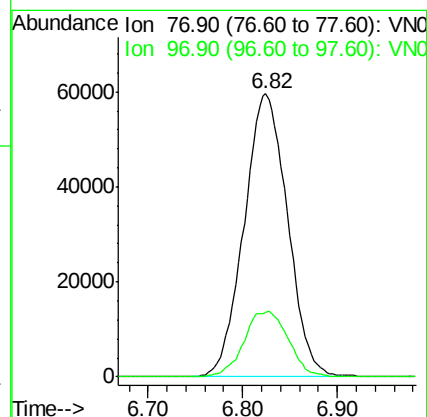
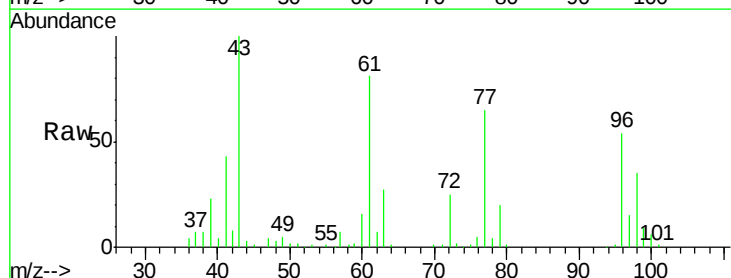
Acq: 27 Feb 2019 17:57

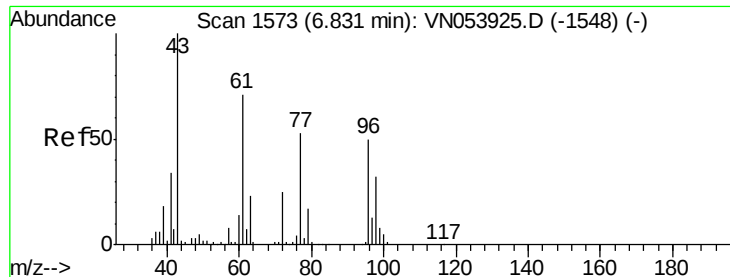
Tgt Ion: 77 Resp: 190198

Ion Ratio Lower Upper

77 100

97 23.6 12.3 36.9





#27

cis-1,2-Dichloroethene

Concen: 19.687 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

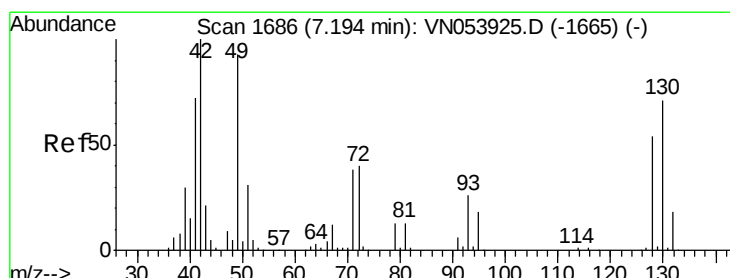
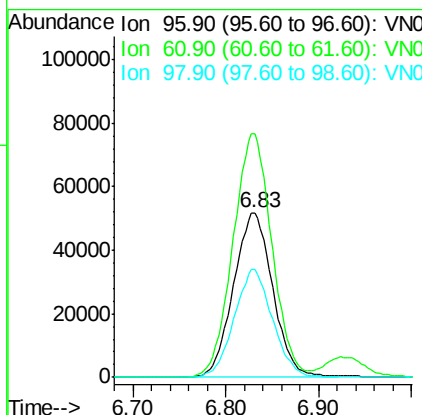
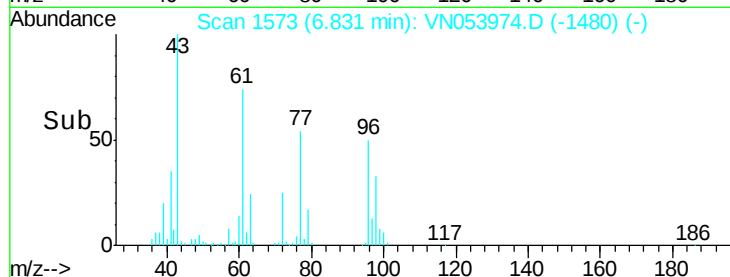
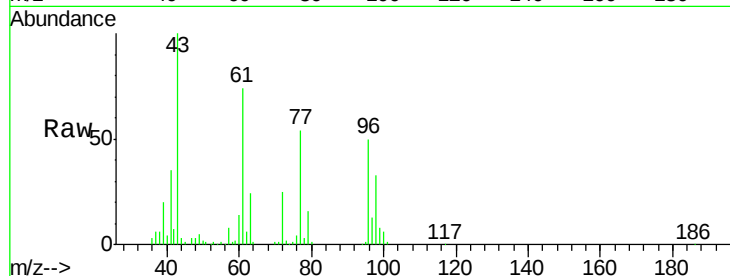
ClientSampleId :

VN0227WBSD01

Tot Ion:	96	Resp:	151786
Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	275.6
98	64.1	0.0	130.0

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



#28

Bromochloromethane

Concen: 20.806 ug/l

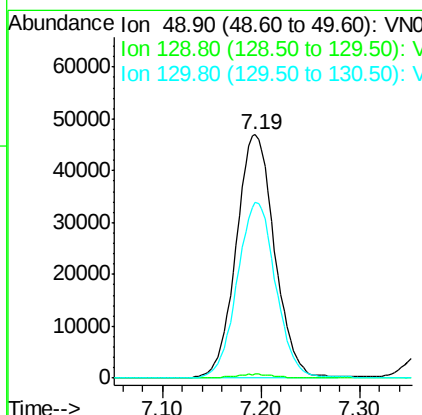
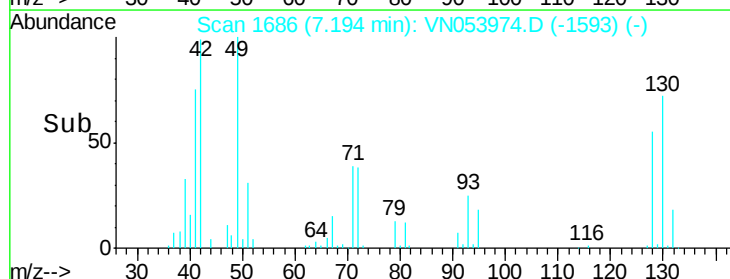
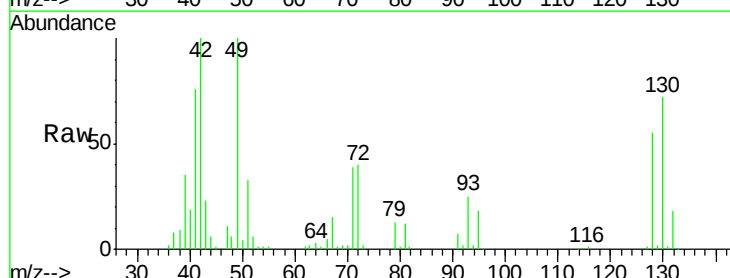
RT: 7.19 min Scan# 1686

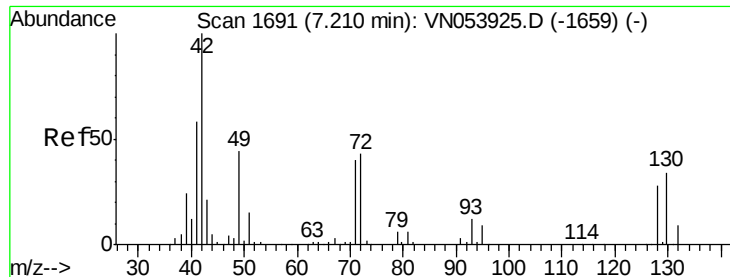
Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Tgt Ion:	49	Resp:	126581
Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.6
130	72.1	72.9	109.3#





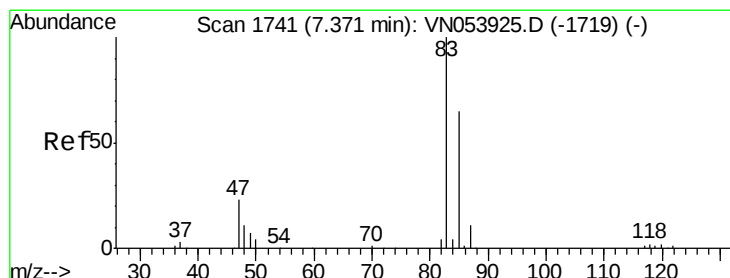
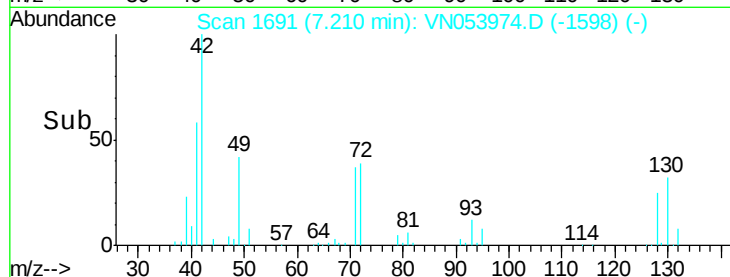
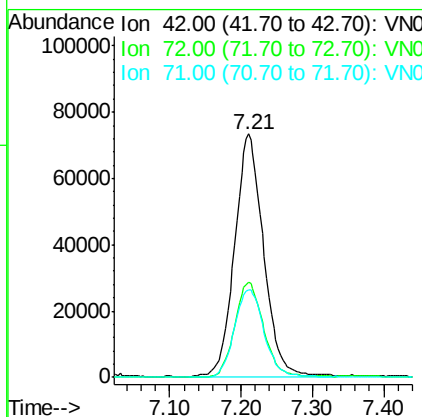
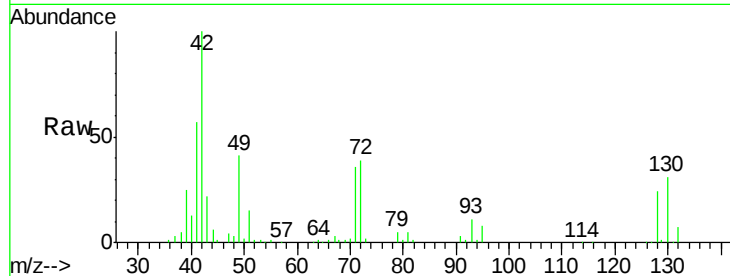
#29
Tetrahydrofuran
Concen: 104.480 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.9	36.9	55.3
71	37.2	34.6	52.0

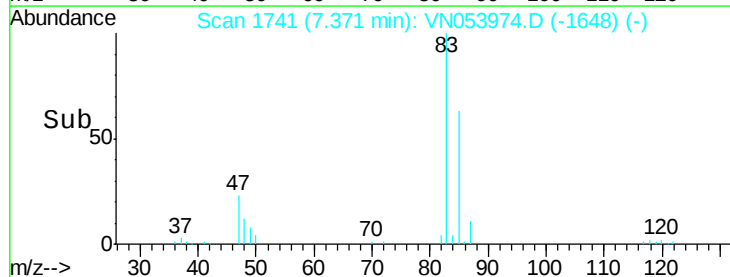
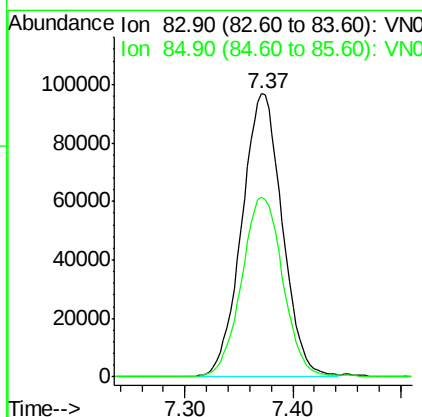
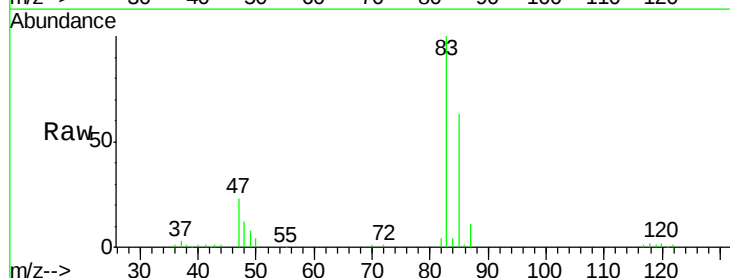
Manual Integrations
APPROVED

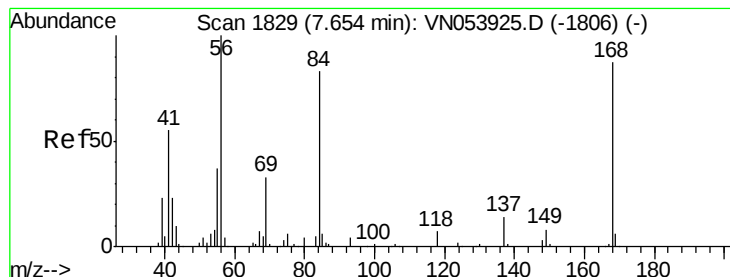
MMDadoda
2/28/2019 2:55:37 PM



#30
Chloroform
Concen: 19.596 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.6	78.8





#31

Cyclohexane

Concen: 19.917 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

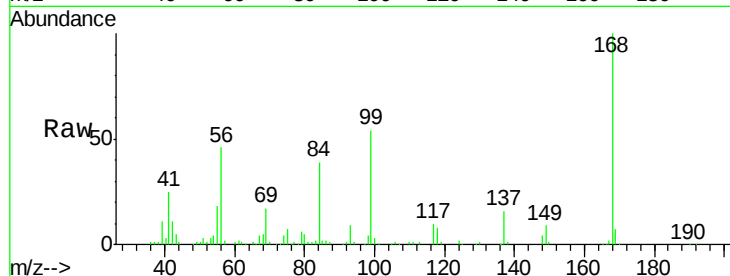
ClientSampleId :

VN0227WBSD01

Tot Ion:	56	Resp:	245261
Ion	Ratio	Lower	Upper
56	100		
69	35.7	26.0	39.0
84	82.7	69.1	103.7

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM

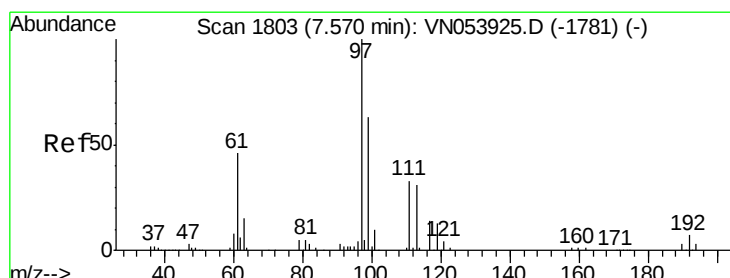
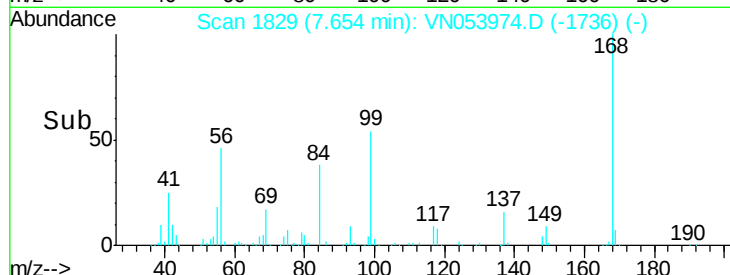
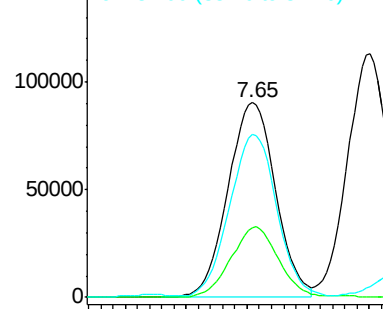


Abundance

Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#32

1,1,1-Trichloroethane

Concen: 19.441 ug/l

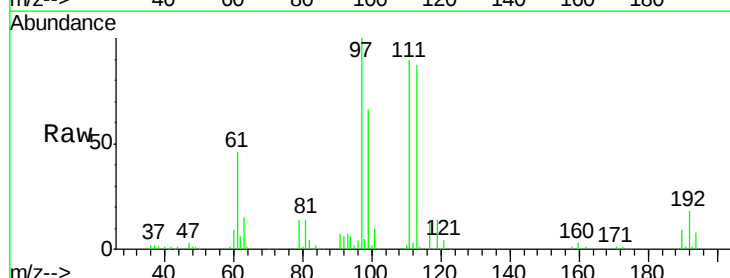
RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Tgt Ion:	97	Resp:	206592
Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.8	77.8
61	46.4	33.2	49.8

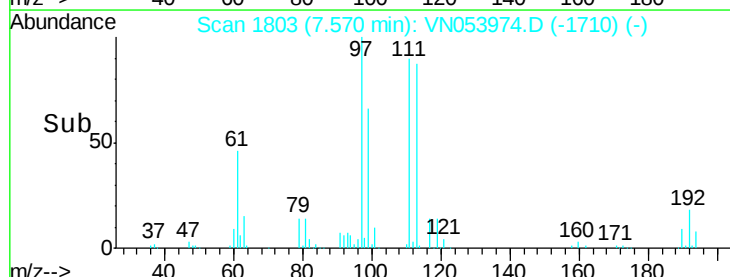
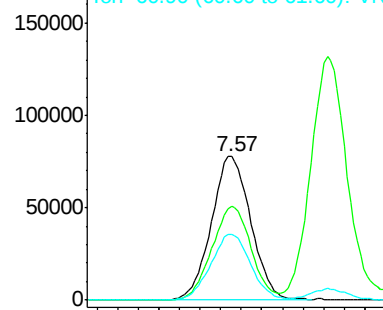


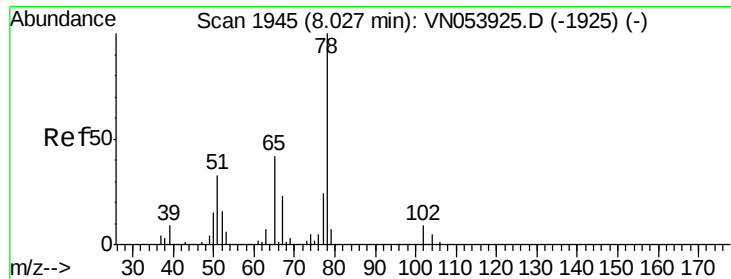
Abundance

Ion 96.90 (96.60 to 97.60): VNC

Ion 98.90 (98.60 to 99.60): VNC

Ion 60.90 (60.60 to 61.60): VNC





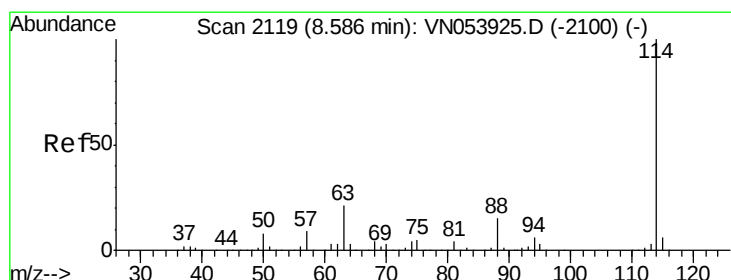
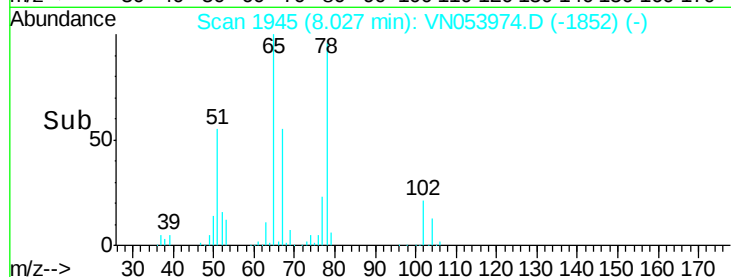
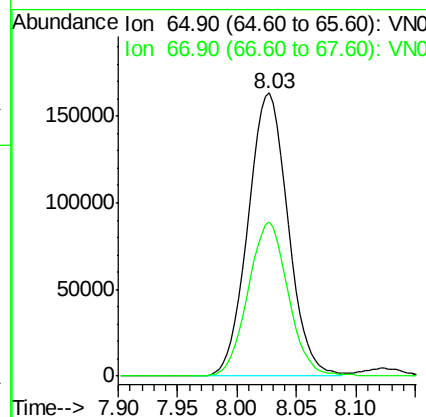
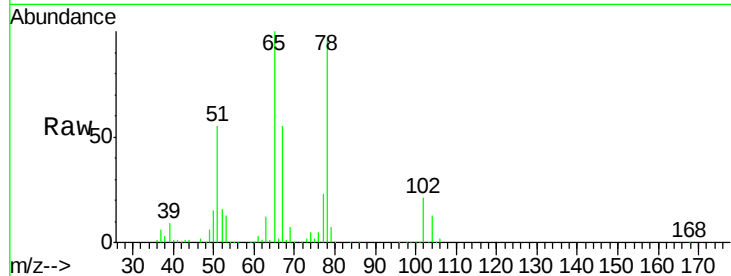
#33
 1,2-Dichloroethane-d4
 Concen: 50.112 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.7	0.0		111.8

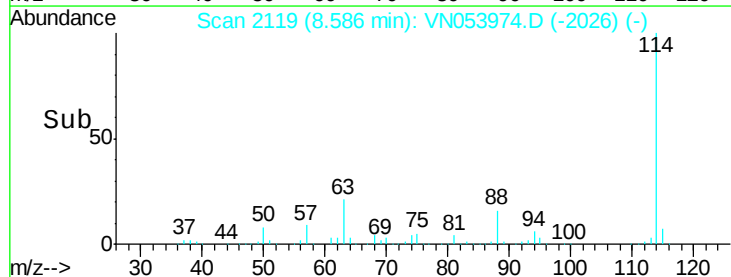
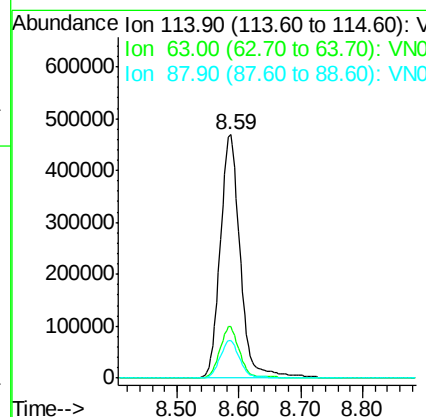
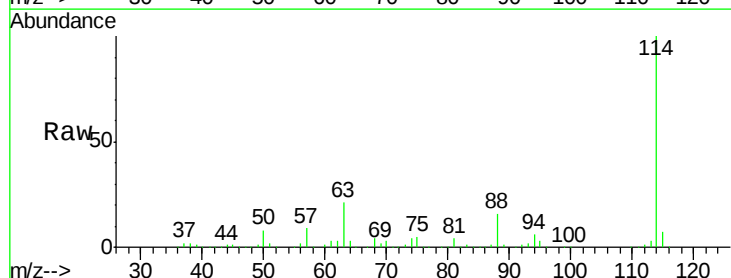
Manual Integrations
 APPROVED

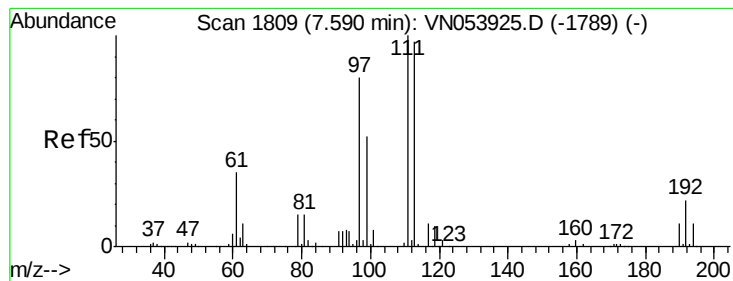
MMDadoda
 2/28/2019 2:55:37 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.1	0.0		37.4
88	15.6	0.0		30.4





#35

Dibromofluoromethane

Concen: 48.886 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

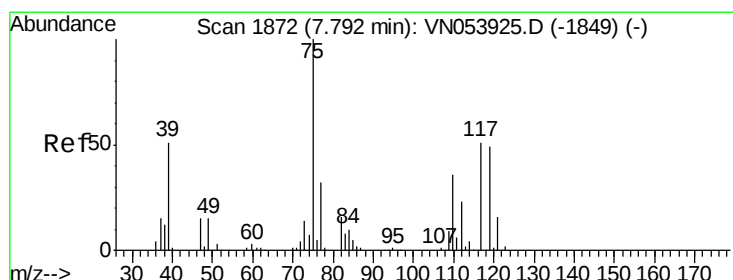
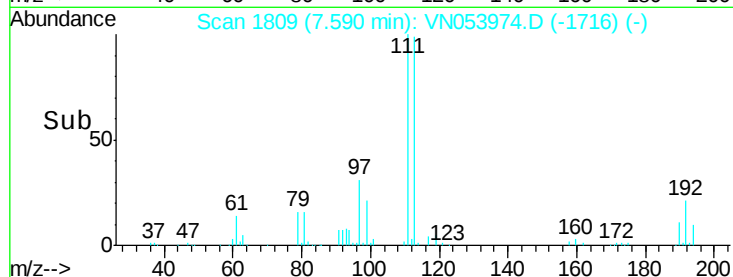
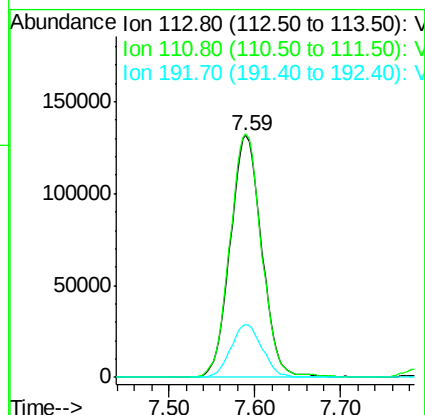
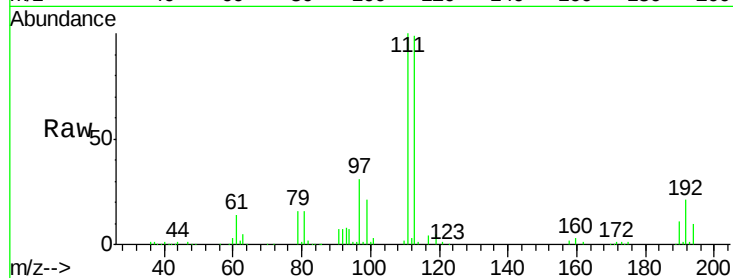
ClientSampleId :

VN0227WBSD01

Tot Ion:	113	Resp:	334407
Ion Ratio	Lower	Upper	
113	100		
111	101.3	81.1	121.7
192	21.8	18.8	28.2

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



#36

1,1-Dichloropropene

Concen: 19.102 ug/l

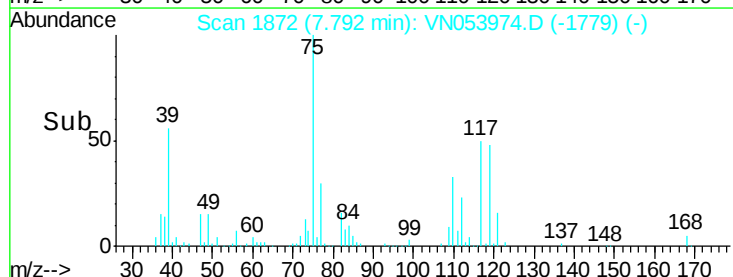
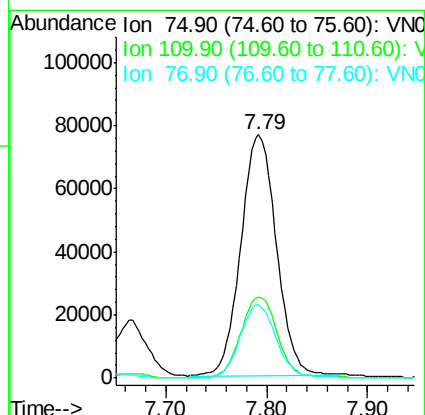
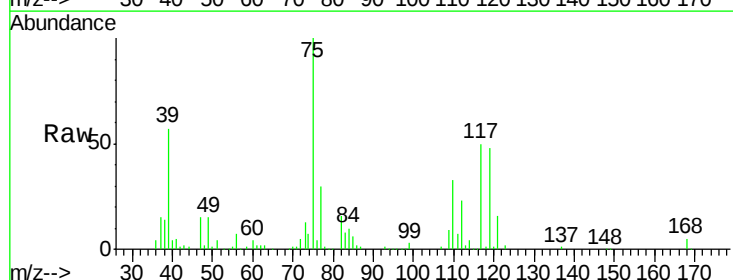
RT: 7.79 min Scan# 1872

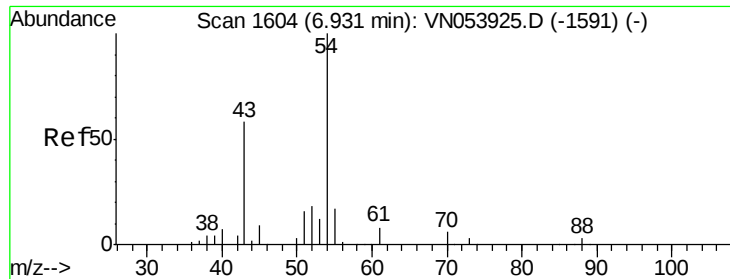
Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Tgt Ion:	75	Resp:	187914
Ion Ratio	Lower	Upper	
75	100		
110	34.9	19.0	57.0
77	31.1	25.4	38.0





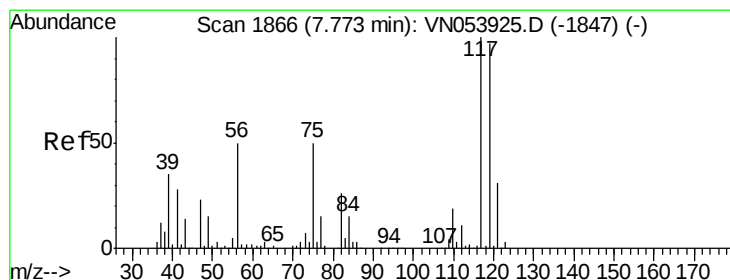
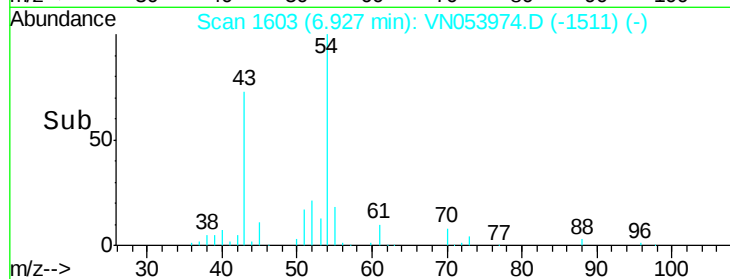
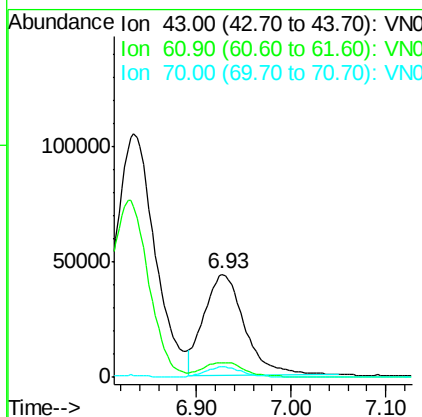
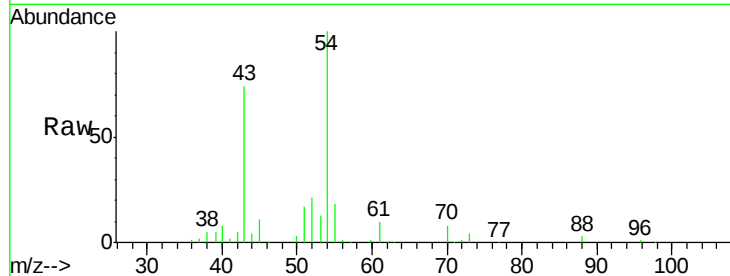
#37
Ethyl Acetate
Concen: 18.725 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.4	12.0	18.0
70	9.6	8.7	13.1

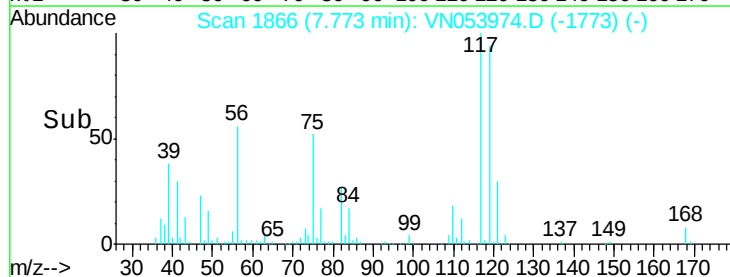
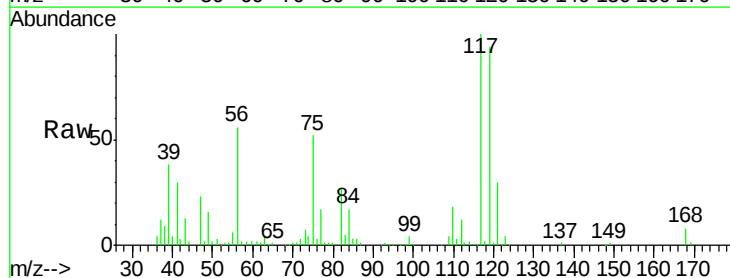
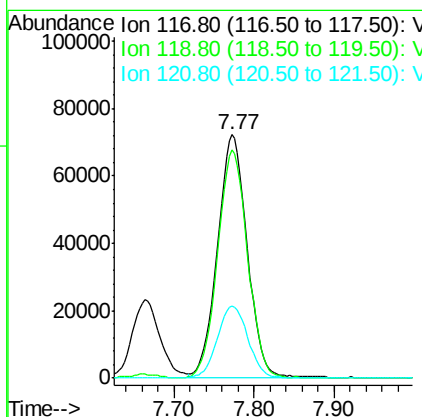
Manual Integrations
APPROVED

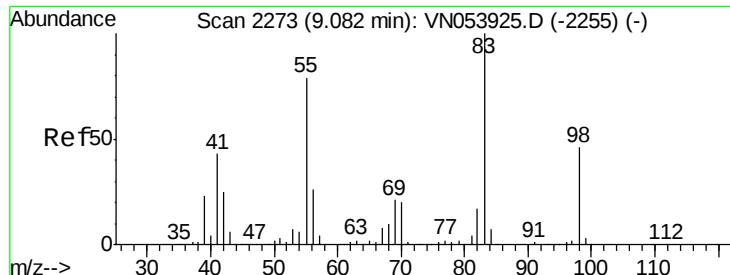
MMDadoda
2/28/2019 2:55:37 PM



#38
Carbon Tetrachloride
Concen: 18.111 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.8	76.2	114.2
121	29.6	24.6	36.8





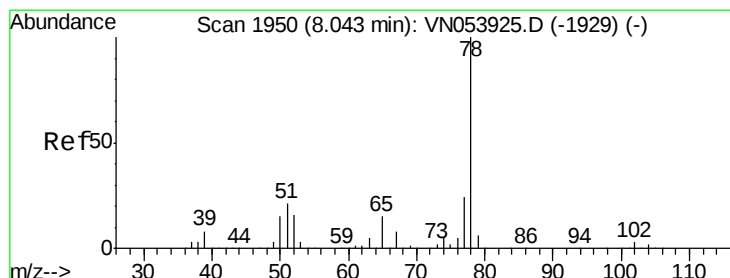
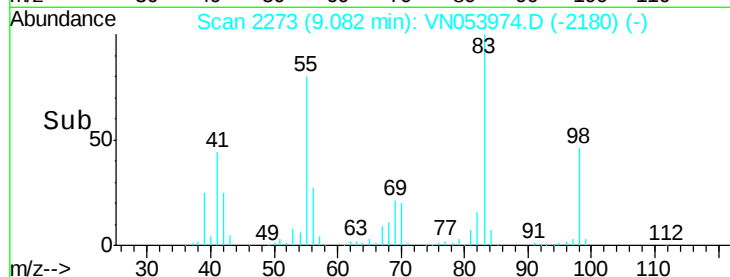
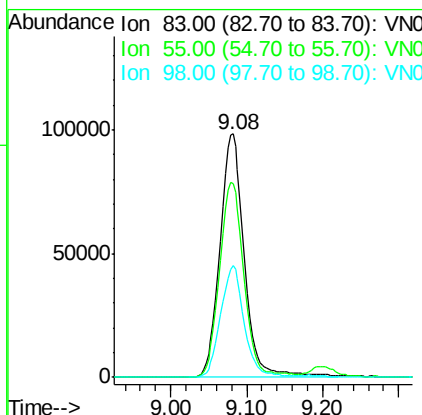
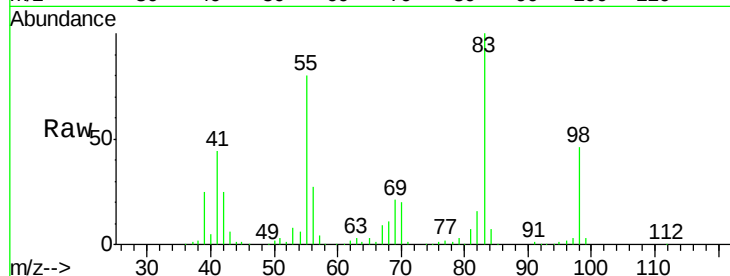
#39
Methvlcvclohexane
Concen: 18.553 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion	83	Resp	219991
Ion Ratio	Lower	Upper	
83	100		
55	79.7	58.2	87.4
98	45.7	37.2	55.8

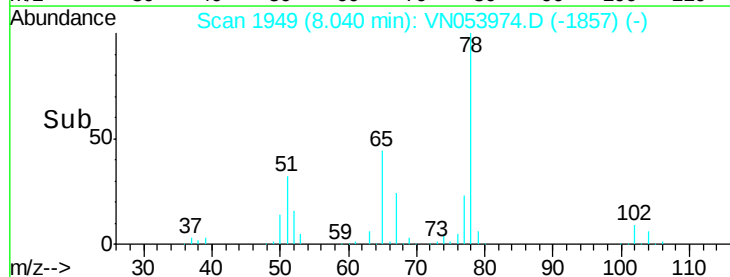
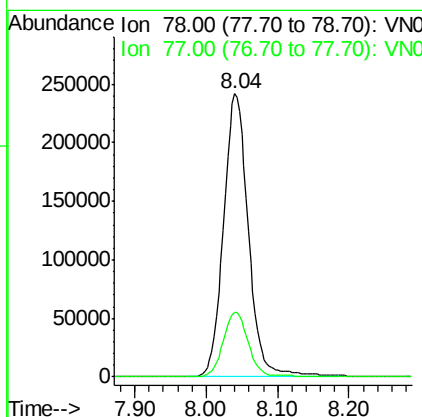
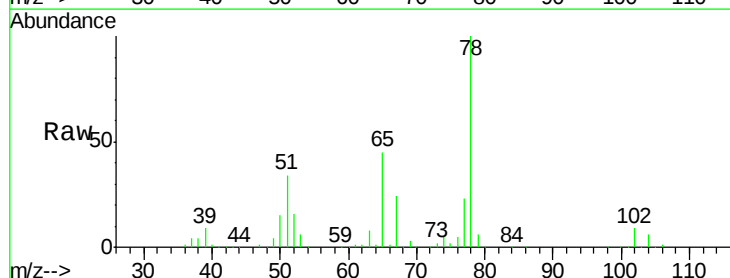
Manual Integrations
APPROVED

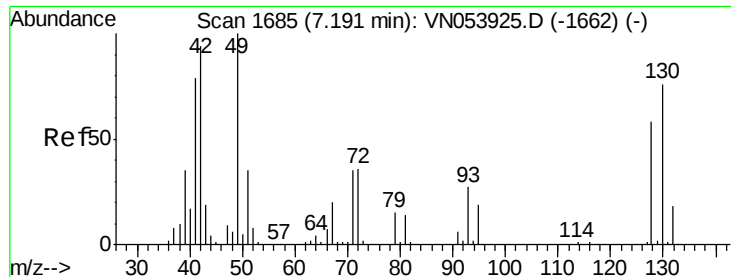
MMDadoda
2/28/2019 2:55:37 PM



#40
Benzene
Concen: 19.429 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion	78	Resp	587170
Ion Ratio	Lower	Upper	
78	100		
77	22.8	18.8	28.2





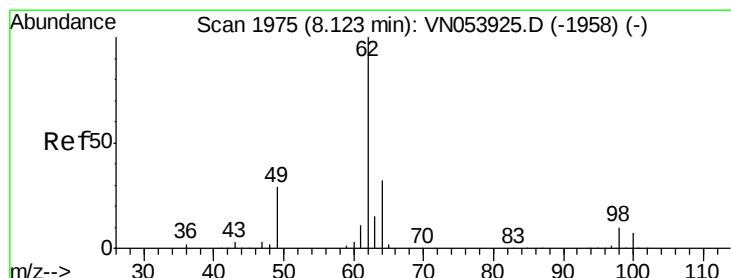
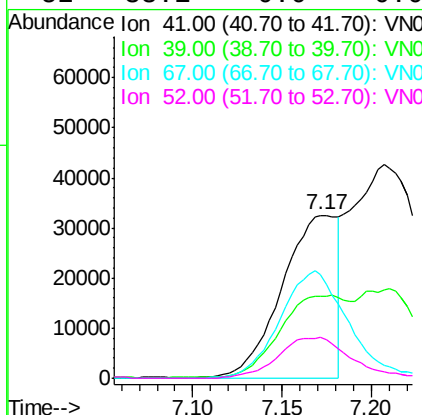
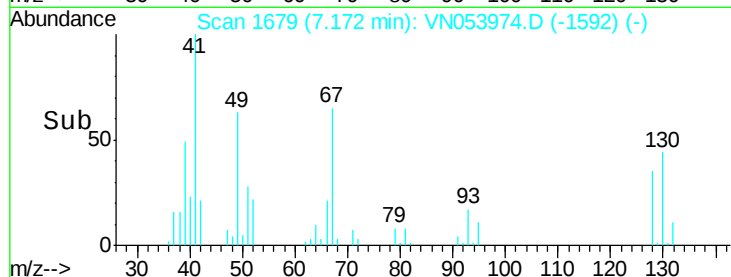
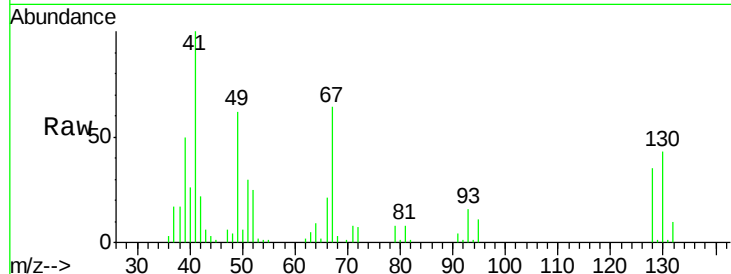
#41
Methacrylonitrile
Concen: 15.626 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.02 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion	41	Resp	70678
Ion	Ratio	Lower	Upper
41	100		
39	59.5	0.0	0.0#
67	81.2	0.0	0.0#
52	33.1	0.0	0.0#

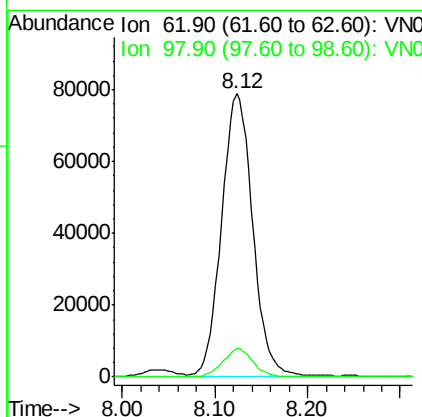
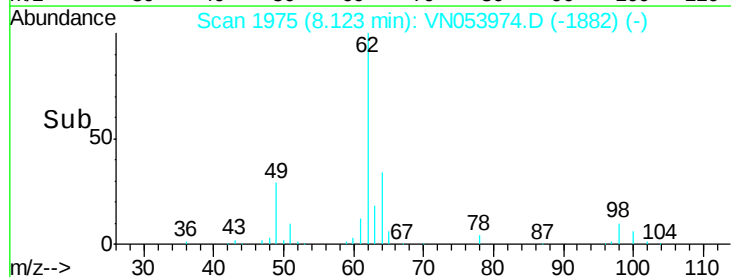
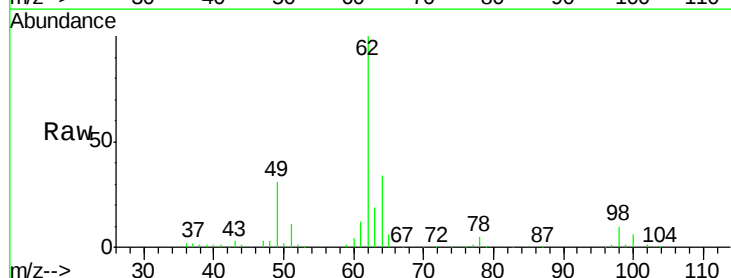
Manual Integrations
APPROVED

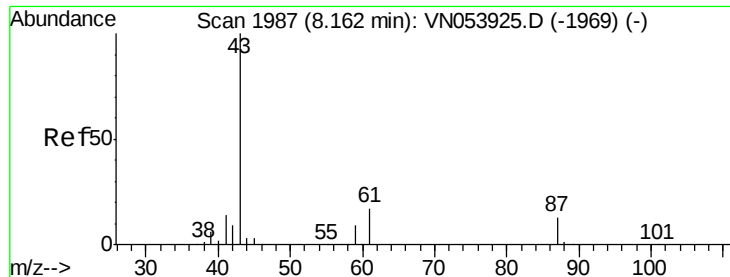
MMDadoda
2/28/2019 2:55:37 PM



#42
1,2-Dichloroethane
Concen: 19.586 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion	62	Resp	183254
Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	20.8





#43

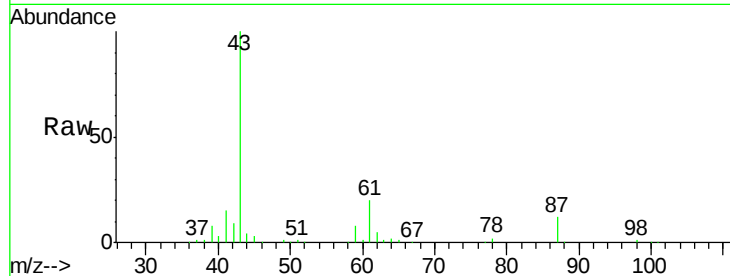
Isopropyl Acetate
 Concen: 19.240 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBSD01

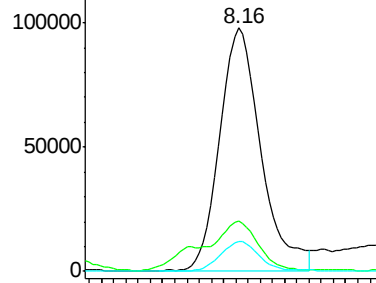
Tot Ion	Ratio	Lower	Upper
43	100		
61	18.4	17.4	26.0
87	11.5	11.5	17.3

Manual Integrations
 APPROVED

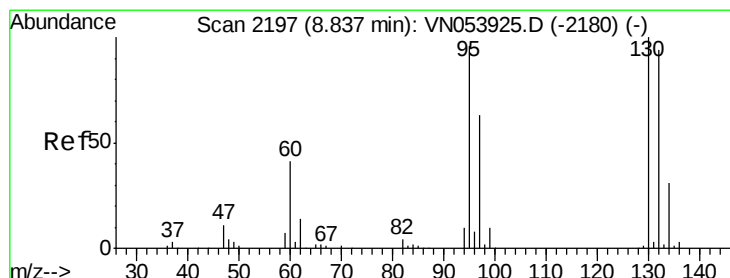
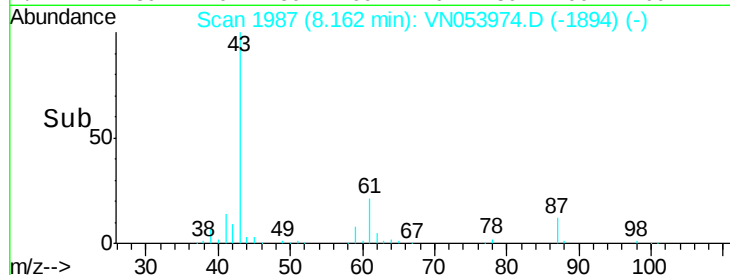
MMDadoda
 2/28/2019 2:55:37 PM



Abundance Ion 43.00 (42.70 to 43.70): VN053974.D (-1894) (-)



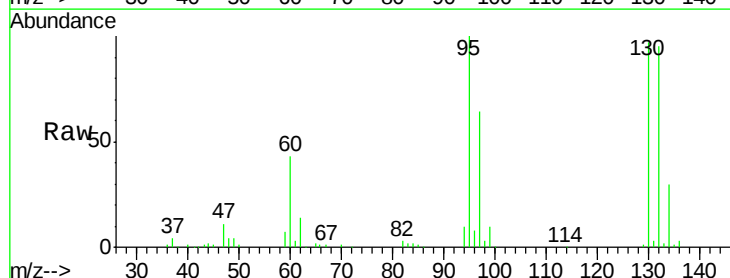
Time-->



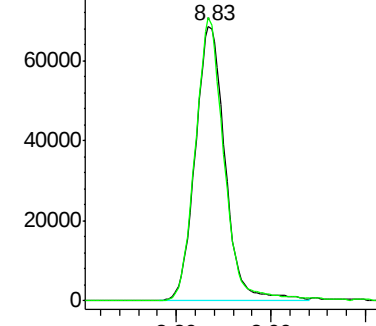
#44

Trichloroethene
 Concen: 18.782 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

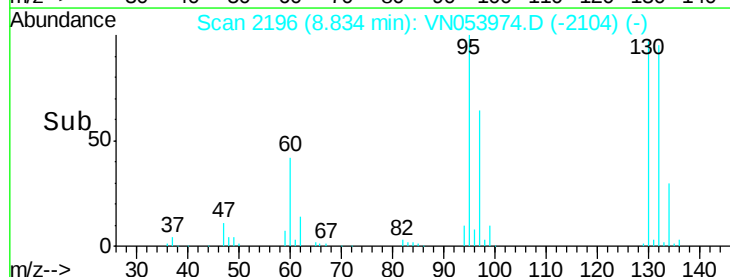
Tgt Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	190.0

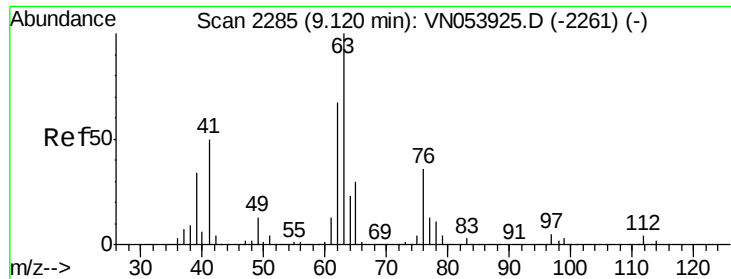


Abundance Ion 129.80 (129.50 to 130.50): VN053974.D (-2104) (-)



Time-->





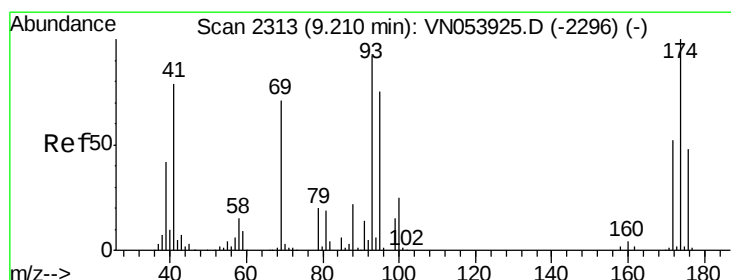
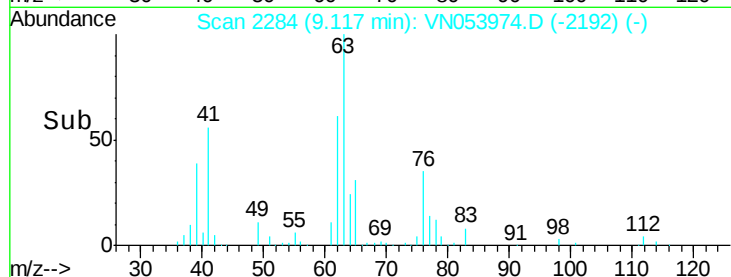
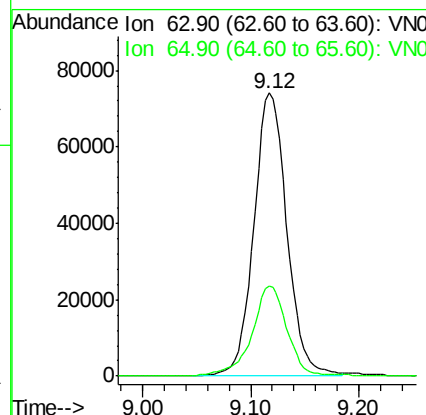
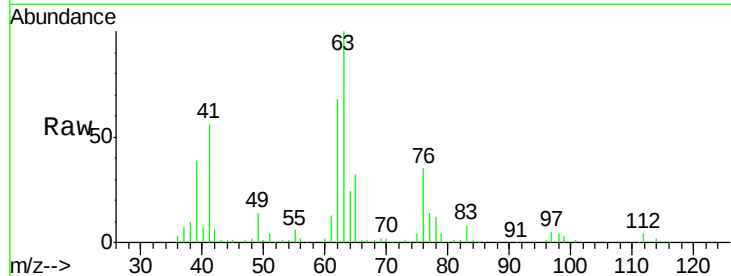
#45
 1,2-Dichloropropane
 Concen: 19.344 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBSD01

Tot Ion: 63 Resp: 157720
 Ion Ratio Lower Upper
 63 100
 65 31.7 24.3 36.5

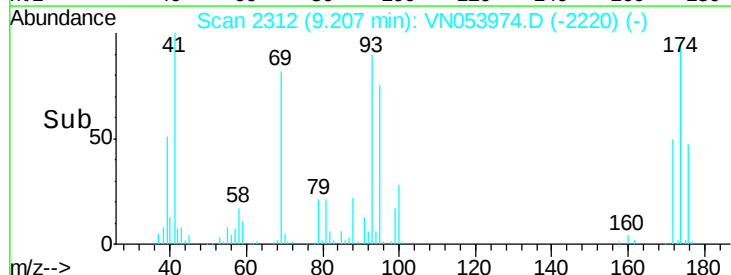
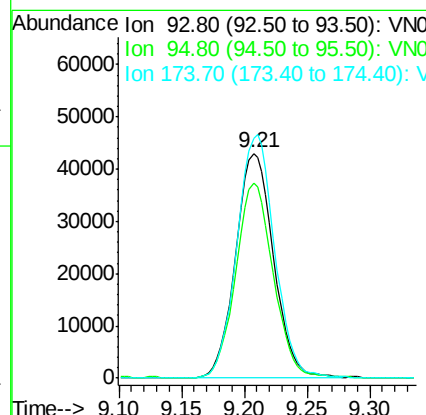
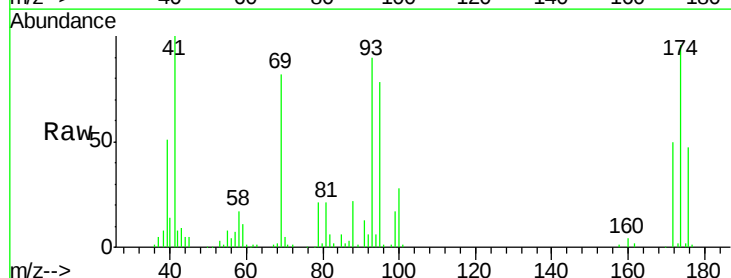
Manual Integrations
 APPROVED

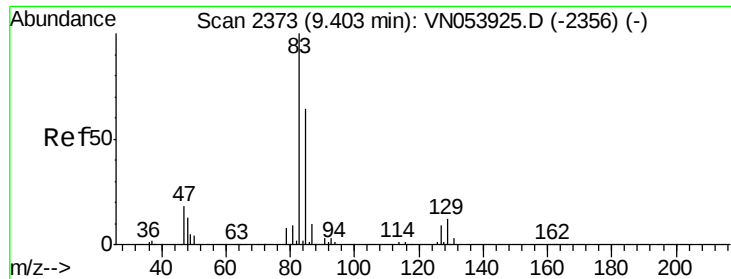
MMDadoda
 2/28/2019 2:55:37 PM



#46
 Dibromomethane
 Concen: 19.172 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Tgt Ion: 93 Resp: 90751
 Ion Ratio Lower Upper
 93 100
 95 86.0 66.6 100.0
 174 107.4 96.2 144.4





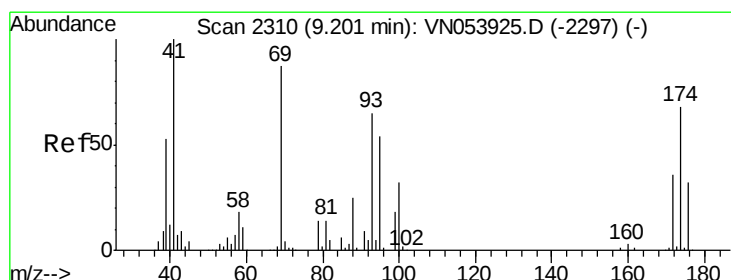
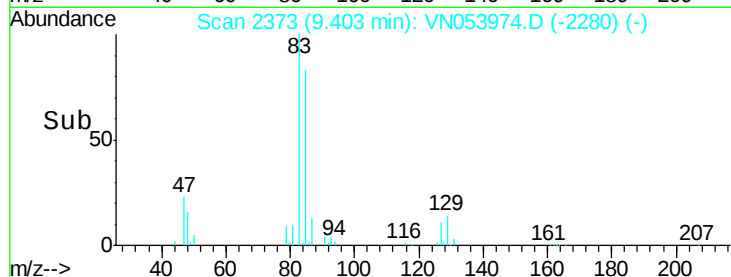
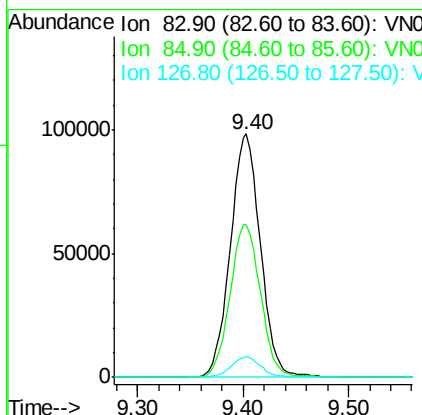
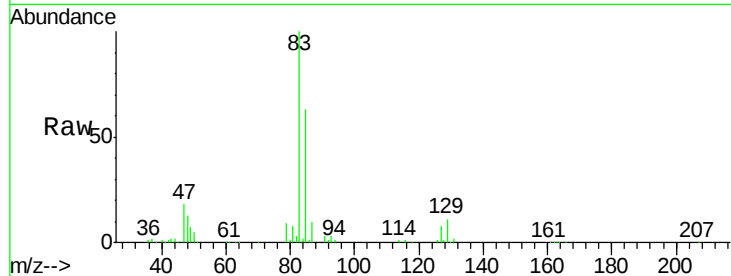
#47
Bromodichloromethane
Concen: 19.439 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	193917		
85	62.7	51.8	77.6	
127	8.3	7.4	11.0	

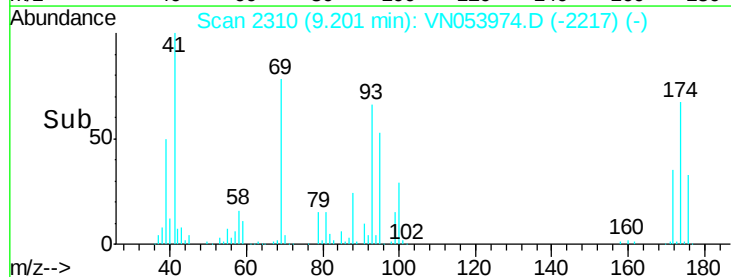
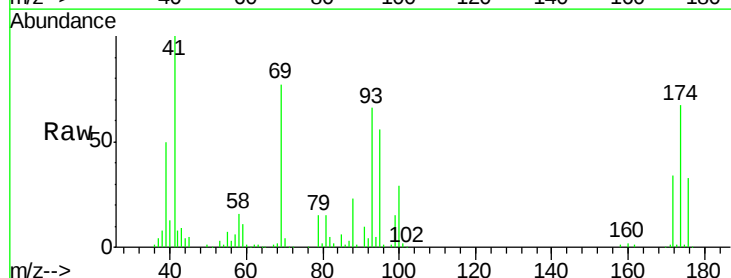
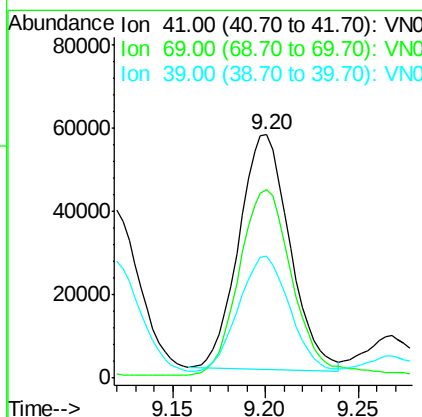
Manual Integrations
APPROVED

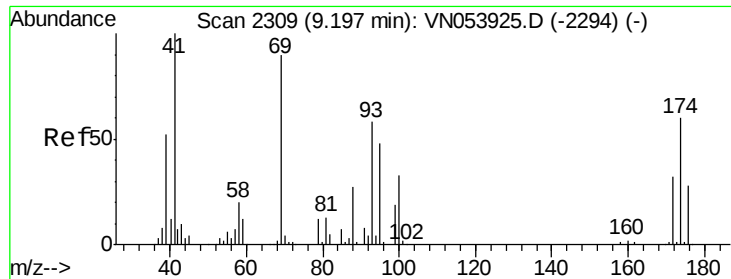
MMDadoda
2/28/2019 2:55:37 PM



#48
Methyl methacrylate
Concen: 19.596 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	106900		
69	84.4	74.8	112.2	
39	54.8	39.0	58.6	





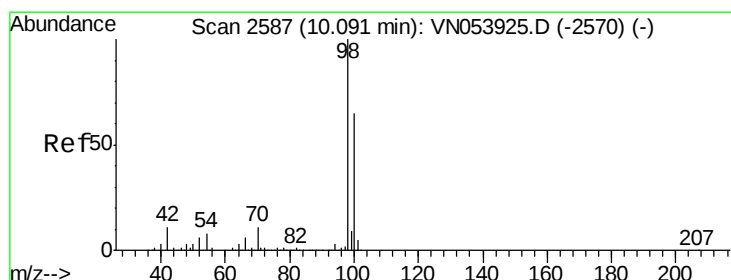
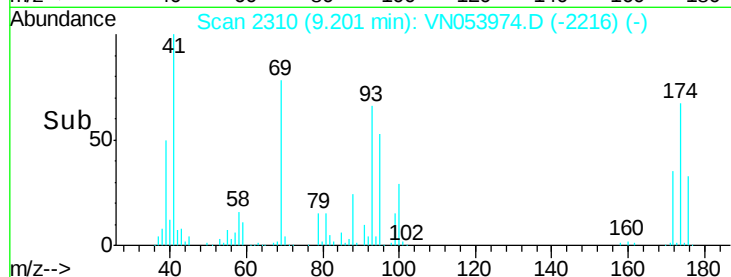
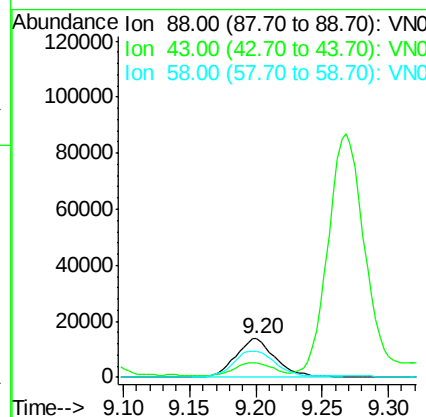
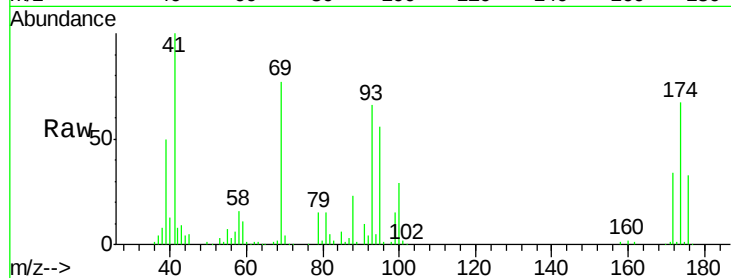
#49
1,4-Dioxane
Concen: 389.088 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion	88	Resp	28749
Ion Ratio	Lower	Upper	
88	100		
43	32.3	21.2	31.8#
58	73.3	54.2	81.2

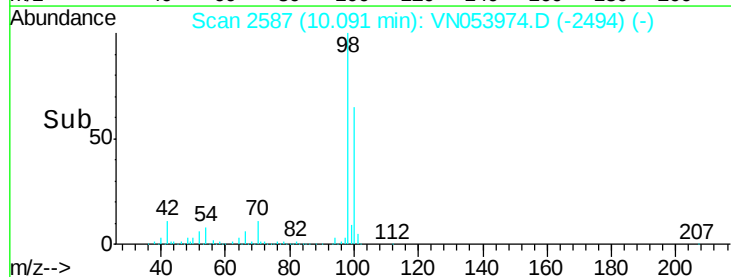
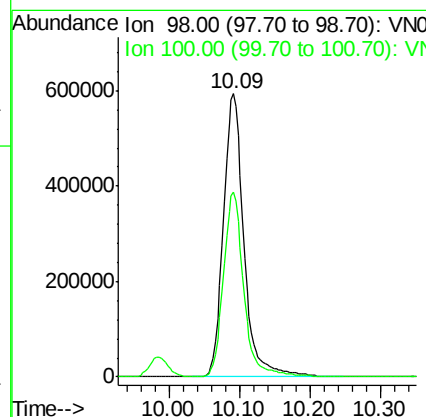
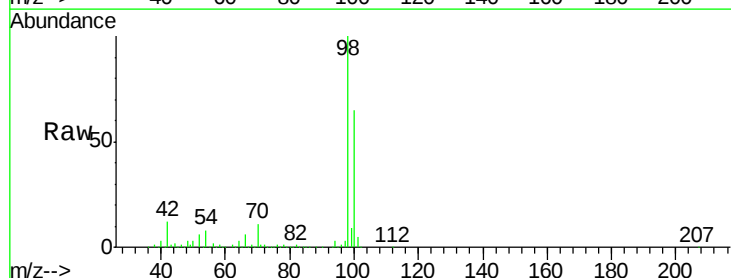
Manual Integrations
APPROVED

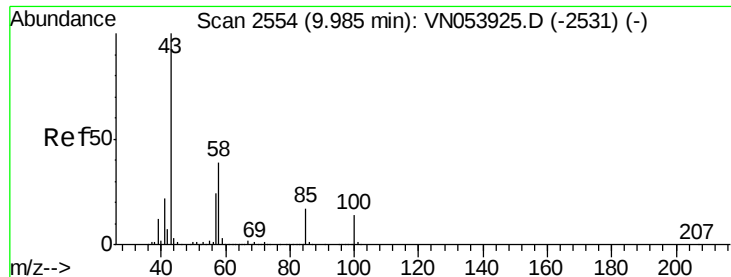
MMDadoda
2/28/2019 2:55:37 PM



#50
Toluene-d8
Concen: 47.363 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion	98	Resp	1206081
Ion Ratio	Lower	Upper	
98	100		
100	64.9	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 101.041 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBSD01

Tot Ion: 43 Resp: 615798

Ion Ratio Lower Upper

43 100

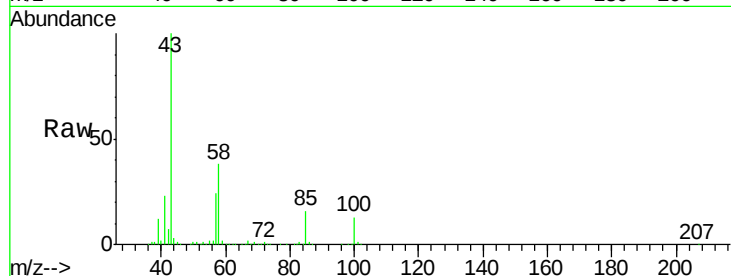
58 38.3 32.7 49.1

Manual Integrations

APPROVED

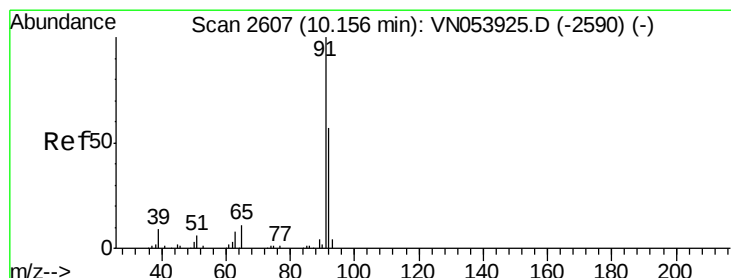
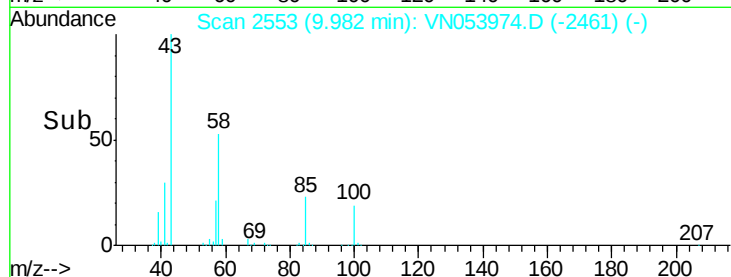
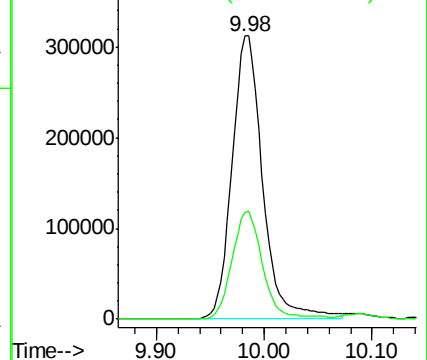
MMDadoda

2/28/2019 2:55:37 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.444 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053974.D

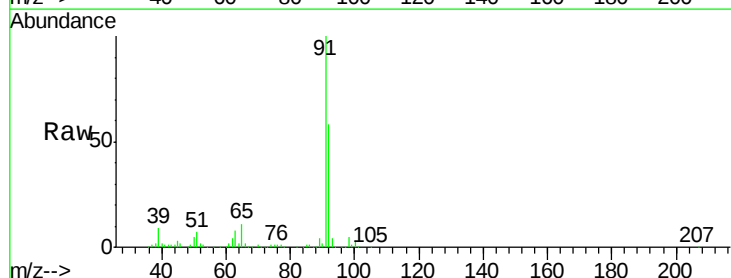
Acq: 27 Feb 2019 17:57

Tgt Ion: 92 Resp: 346004

Ion Ratio Lower Upper

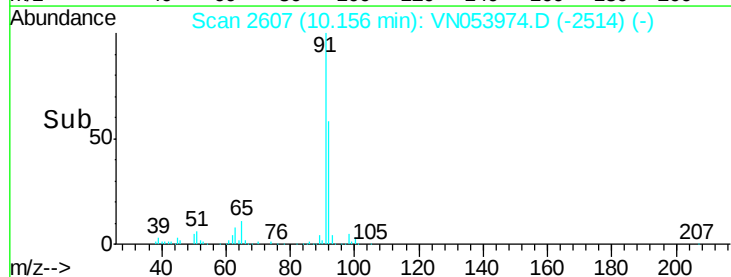
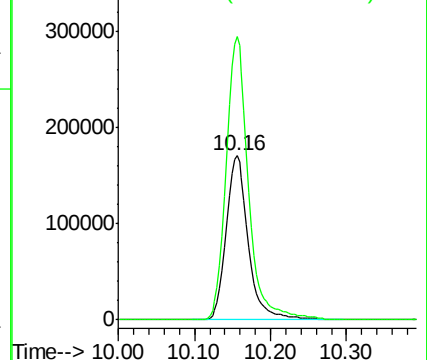
92 100

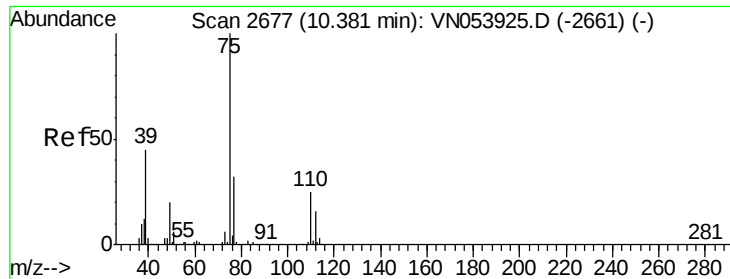
91 174.1 138.4 207.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 19.088 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBSD01

Tot Ion: 75 Resp: 185278

Ion Ratio Lower Upper

75 100

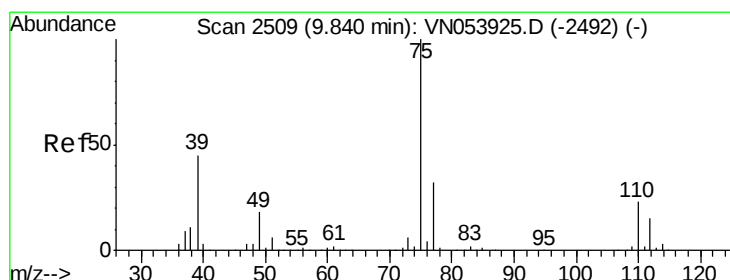
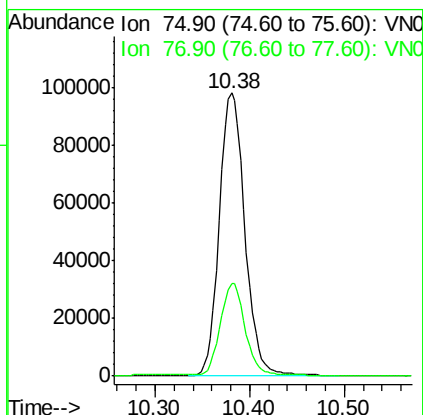
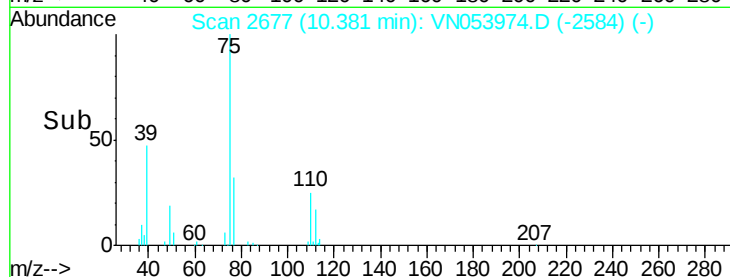
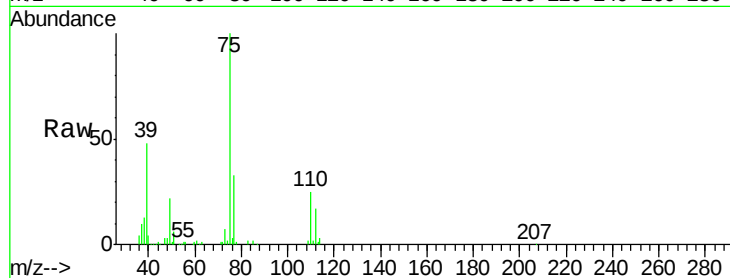
77 32.6 25.0 37.6

Manual Integrations

APPROVED

MMDadoda

2/28/2019 2:55:37 PM



#54

cis-1,3-Dichloropropene

Concen: 19.095 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

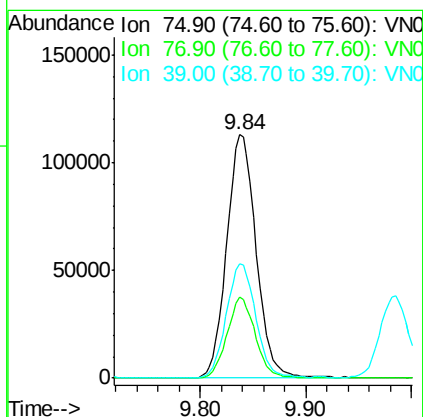
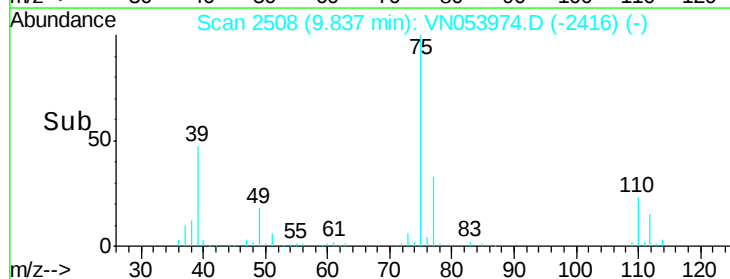
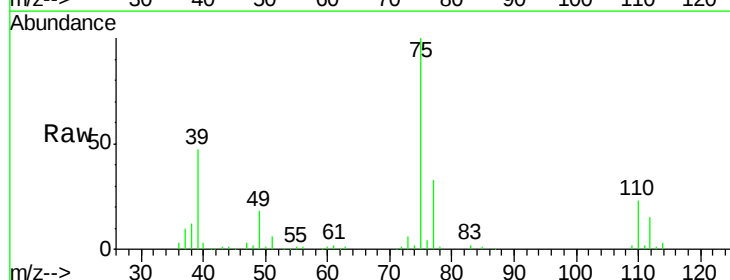
Tgt Ion: 75 Resp: 218493

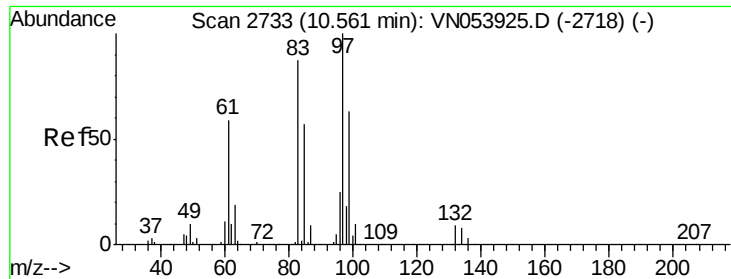
Ion Ratio Lower Upper

75 100

77 33.2 25.8 38.6

39 46.7 31.4 47.0





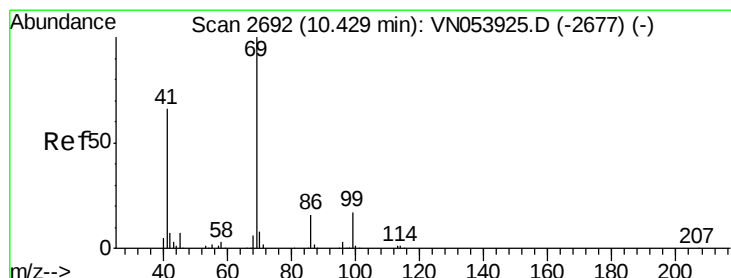
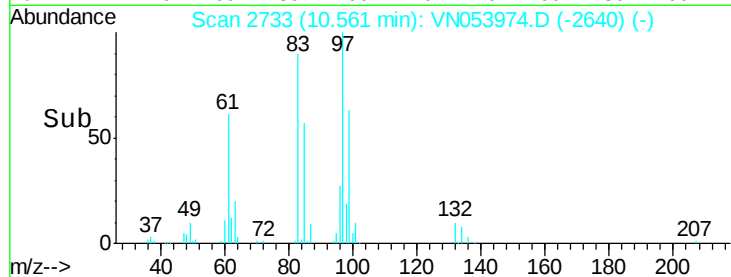
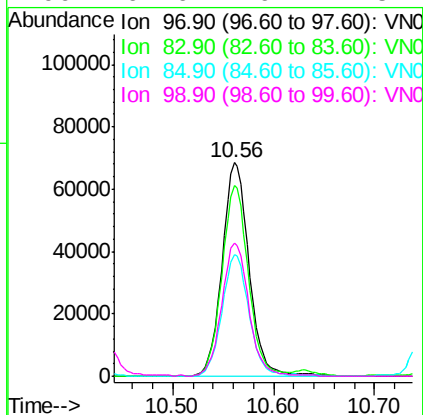
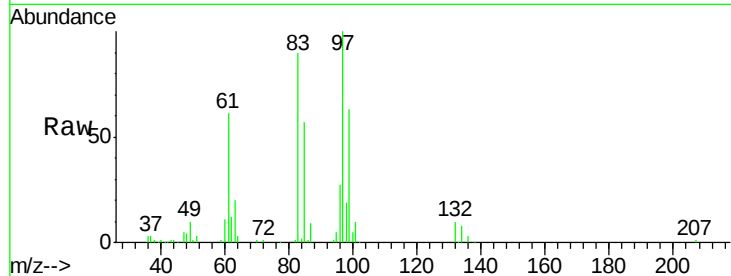
#55
 1,1,2-Trichloroethane
 Concen: 19.265 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		128033		
83	89.6	69.5	104.3		
85	57.0	45.9	68.9		
99	62.6	49.1	73.7		

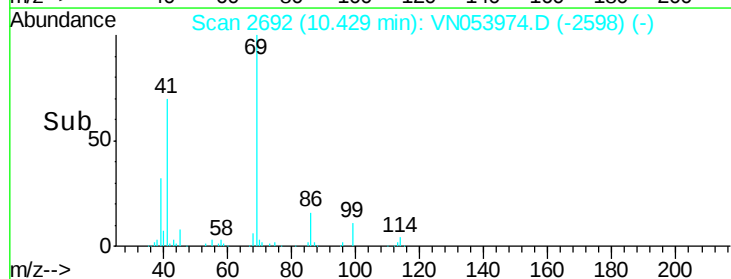
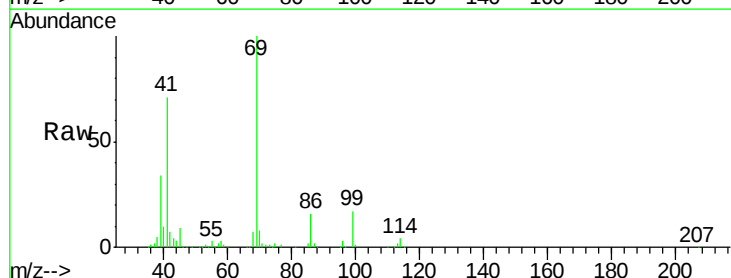
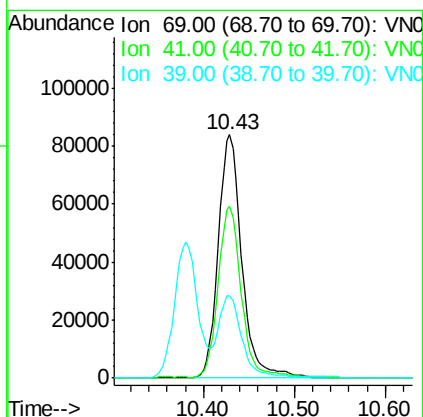
Manual Integrations
 APPROVED

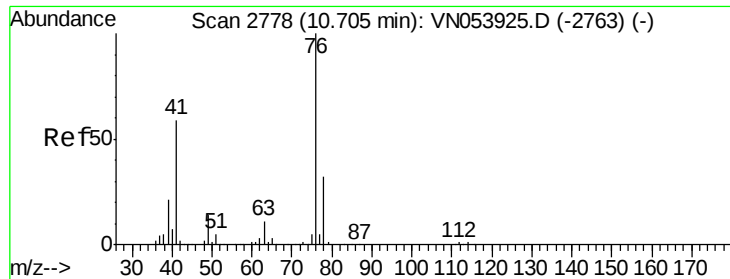
MMDadoda
 2/28/2019 2:55:37 PM



#56
 Ethyl methacrylate
 Concen: 18.616 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		151089		
41	71.1	47.5	71.3		
39	33.8	23.4	35.0		





#57

1,3-Dichloropropane

Concen: 19.568 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBSD01

Tot Ion: 76 Resp: 219725

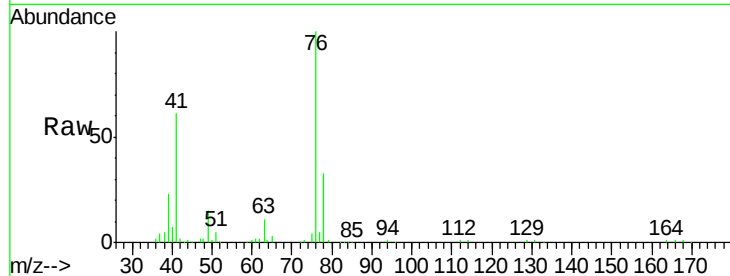
Ion Ratio Lower Upper

76 100

78 31.7 25.2 37.8

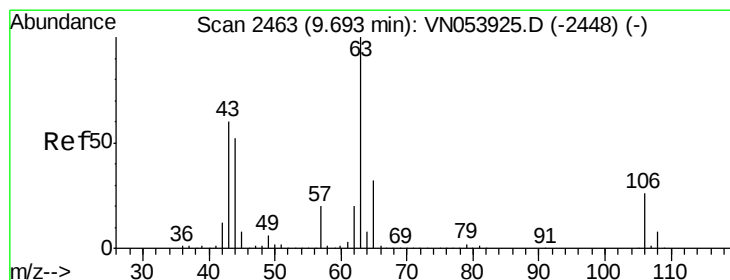
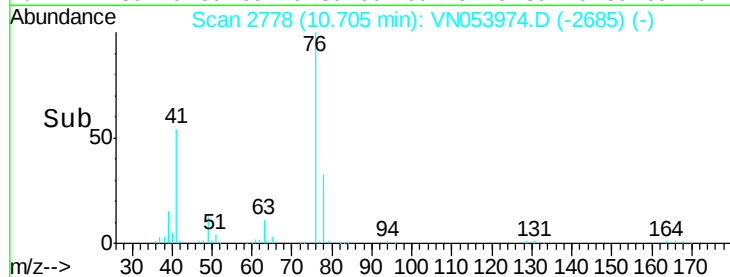
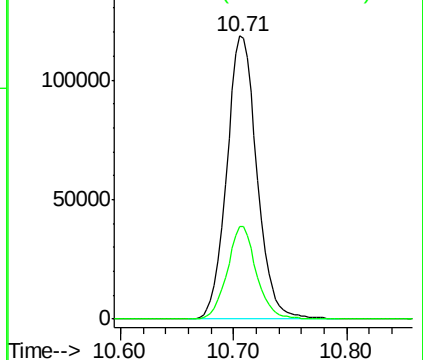
Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 93.190 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053974.D

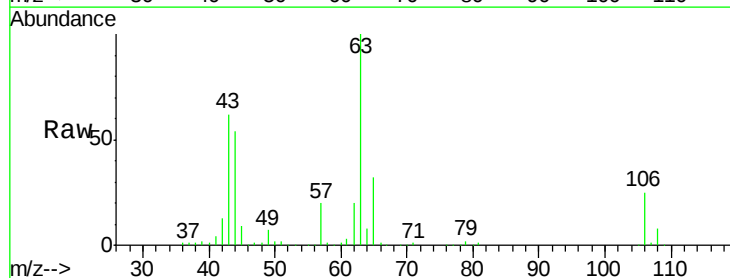
Acq: 27 Feb 2019 17:57

Tgt Ion: 63 Resp: 341421

Ion Ratio Lower Upper

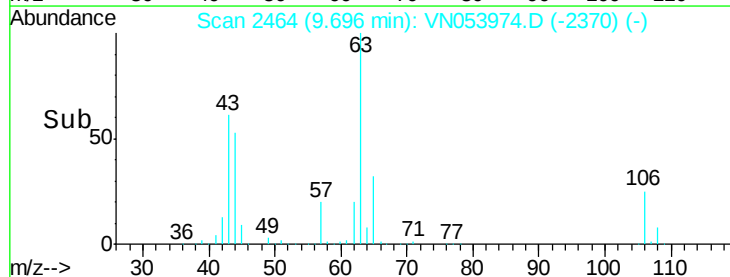
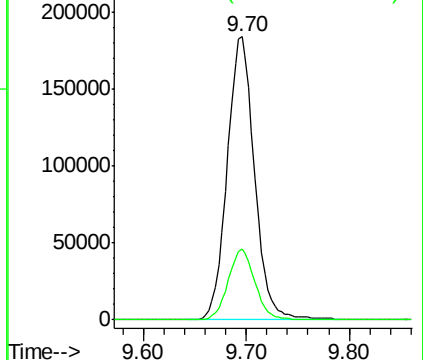
63 100

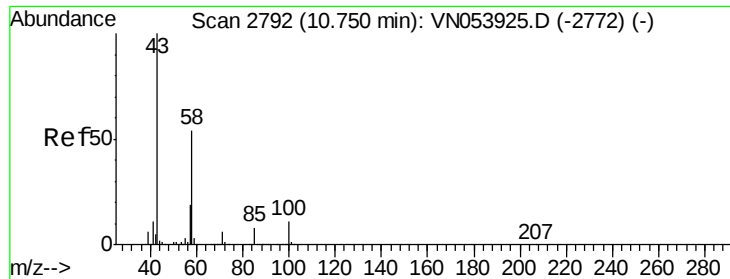
106 24.6 22.2 33.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





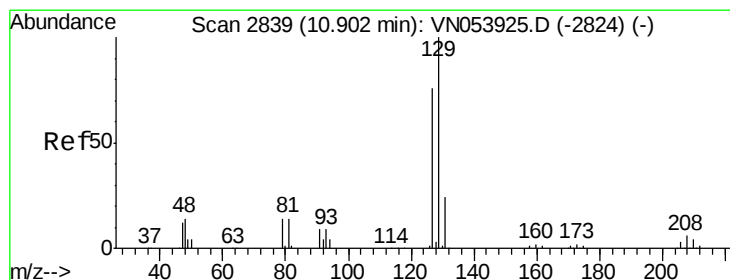
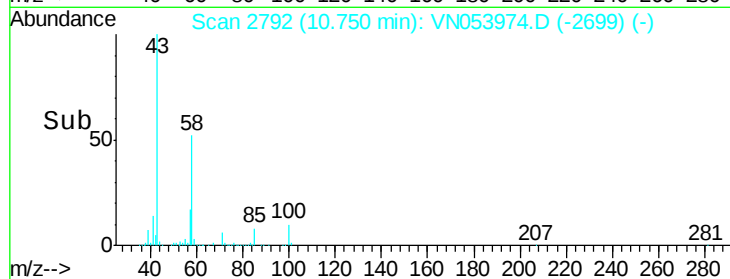
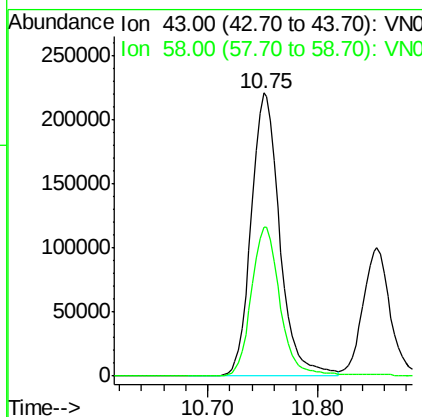
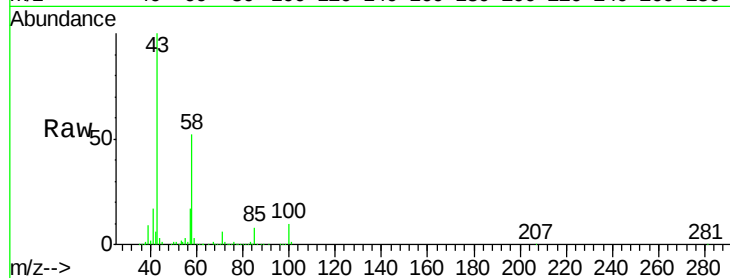
#59
2-Hexanone
Concen: 99.495 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion	43	Resp	394373
Ion Ratio	100	Lower	Upper
43	100		
58	53.0	29.1	87.4

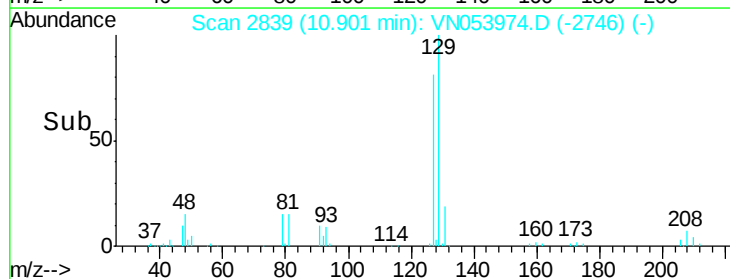
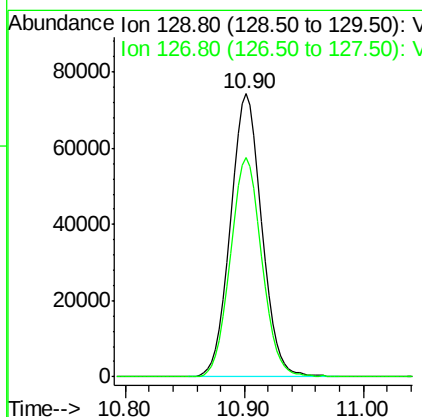
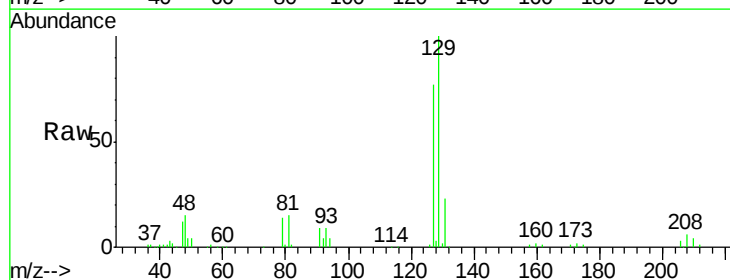
Manual Integrations
APPROVED

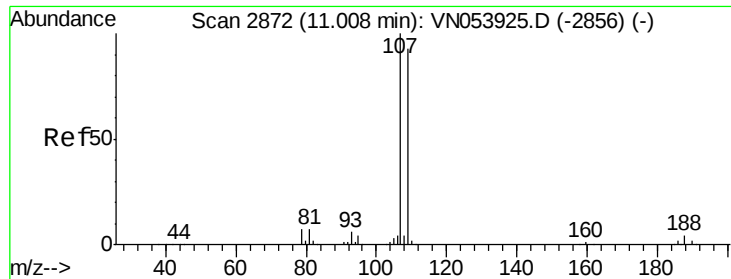
MMDadoda
2/28/2019 2:55:37 PM



#60
Dibromochloromethane
Concen: 18.351 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion	129	Resp	135542
Ion Ratio	100	Lower	Upper
129	100		
127	77.9	38.8	116.3





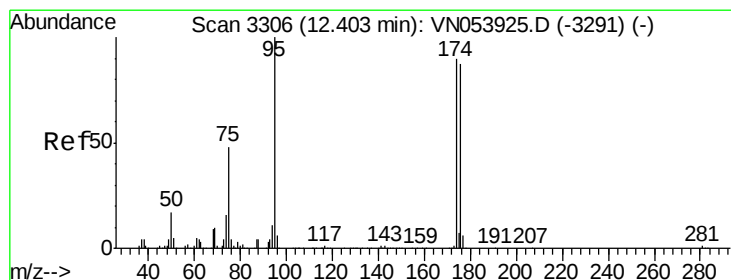
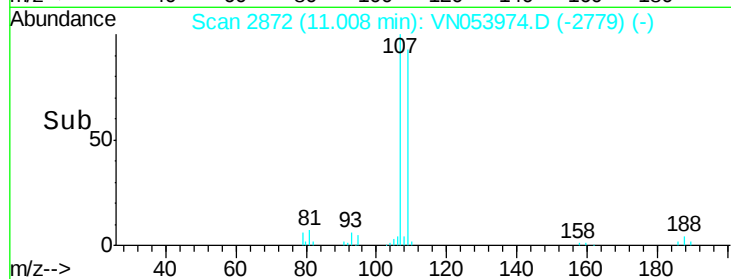
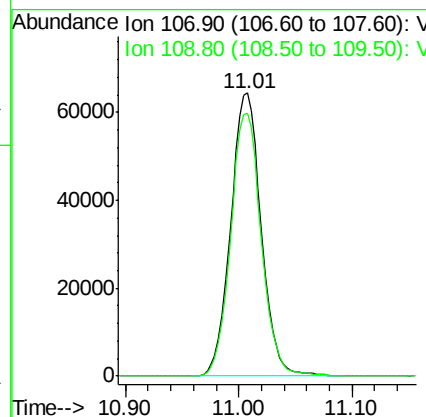
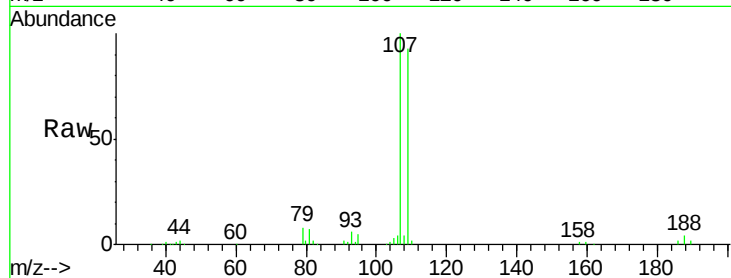
#61
 1,2-Dibromoethane
 Concen: 18.777 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
107	100	120381		
109	93.6	76.3	114.5	

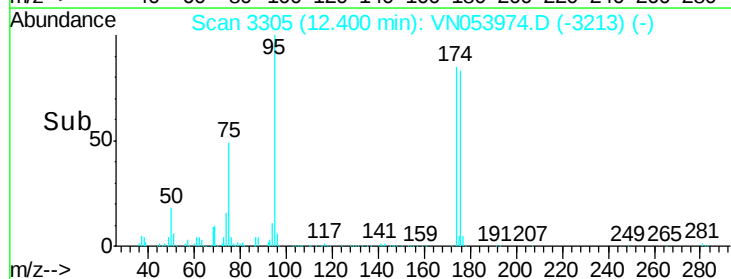
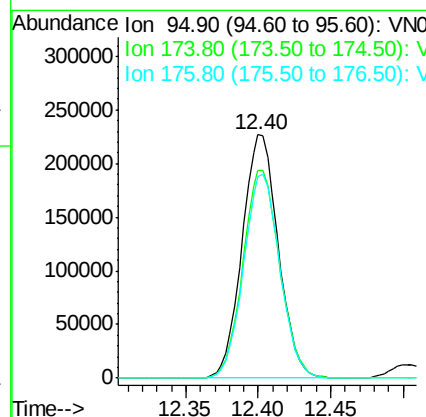
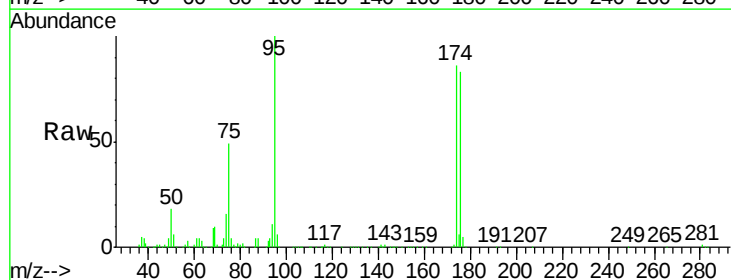
Manual Integrations
 APPROVED

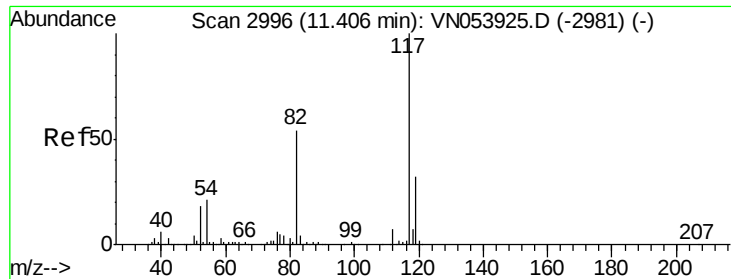
MMDadoda
 2/28/2019 2:55:37 PM



#62
 4-Bromofluorobenzene
 Concen: 46.325 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	393023		
174	86.7	0.0	188.8	
176	84.1	0.0	182.6	





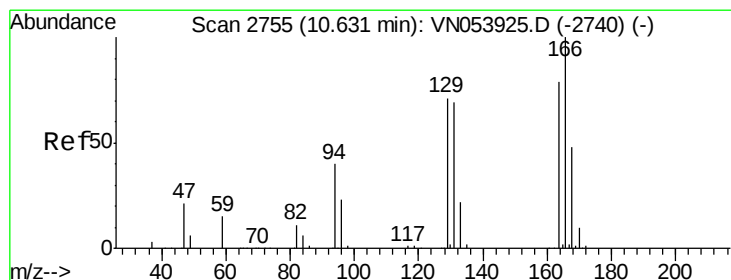
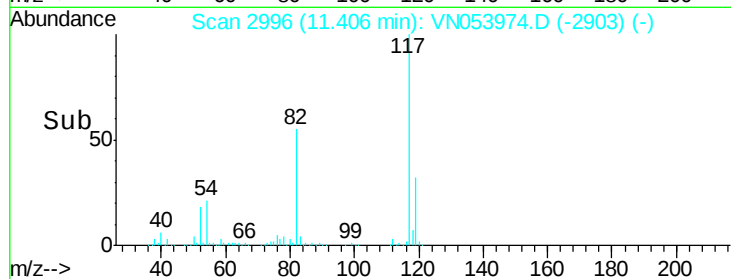
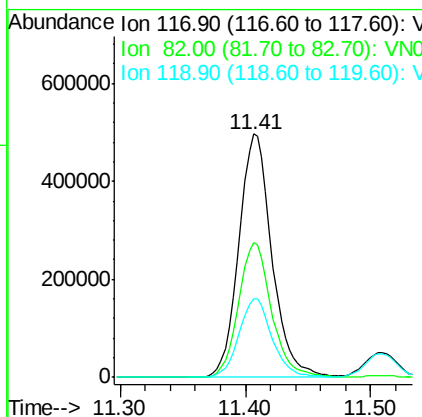
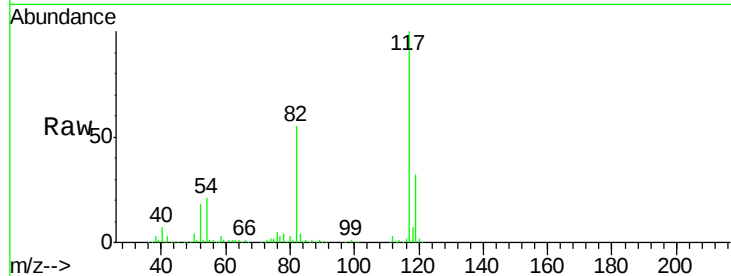
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	911422		
82	55.4	41.4	62.2	
119	32.4	25.3	37.9	

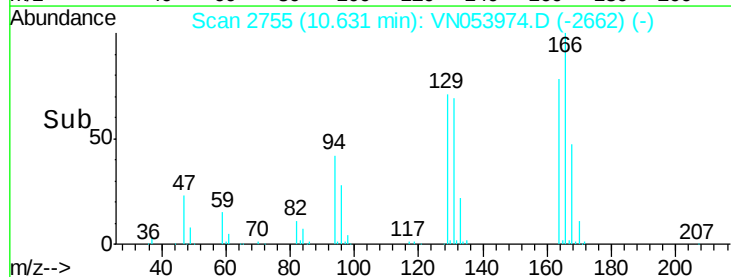
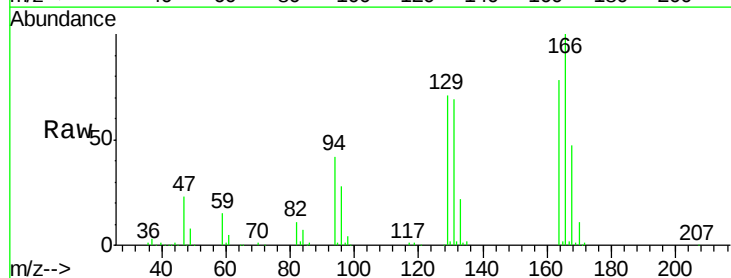
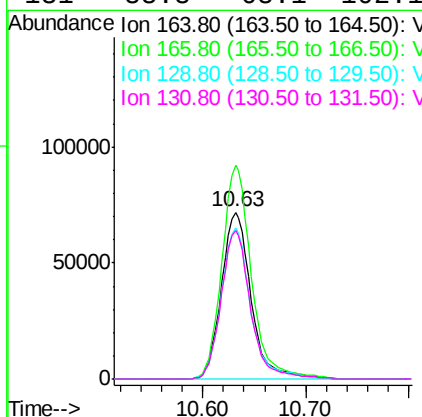
Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



#64
Tetrachloroethene
Concen: 18.652 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	143953		
166	128.1	102.6	153.8	
129	90.6	69.4	104.0	
131	88.8	68.1	102.1	





#65

Chlorobenzene

Concen: 18.694 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBSD01

Tot Ion:112 Resp: 359582

Ion Ratio Lower Upper

112 100

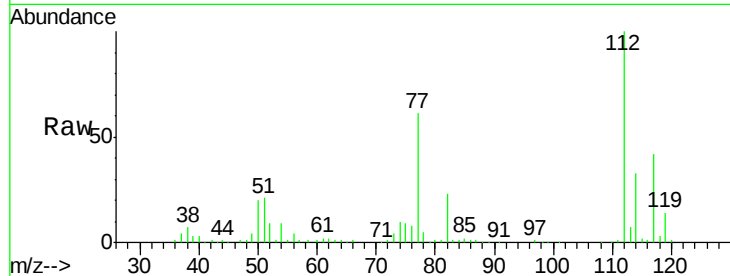
114 32.6 25.7 38.5

Manual Integrations

APPROVED

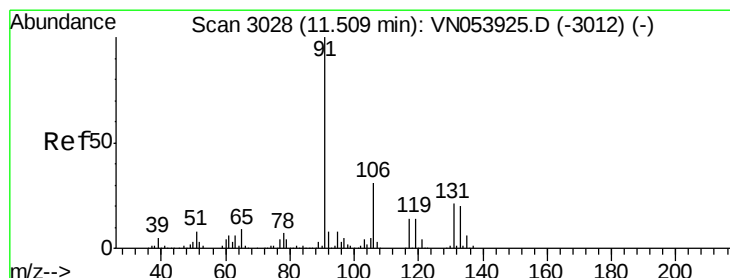
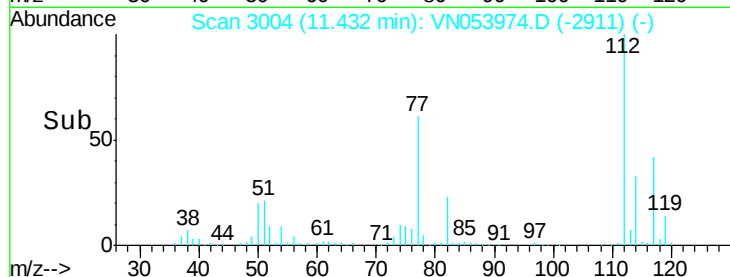
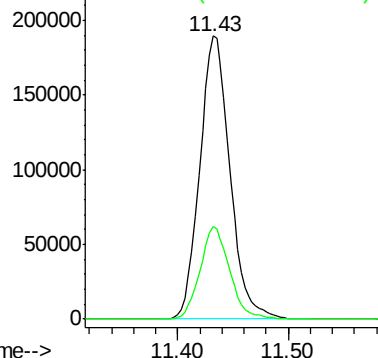
MMDadoda

2/28/2019 2:55:37 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 19.405 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

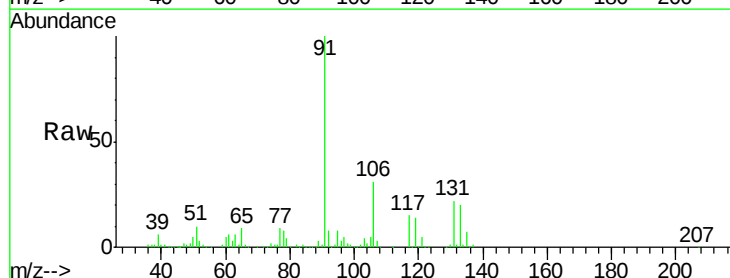
Tgt Ion:131 Resp: 134524

Ion Ratio Lower Upper

131 100

133 94.6 47.7 143.1

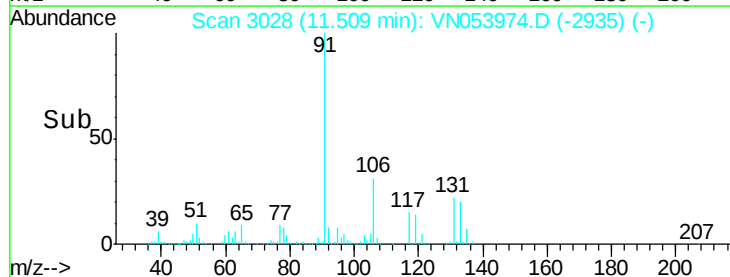
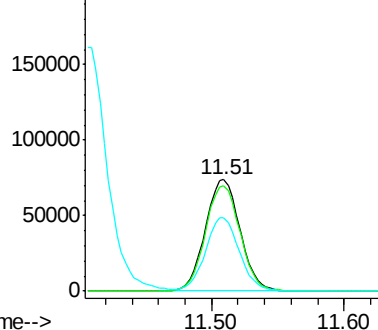
119 64.5 33.1 99.3

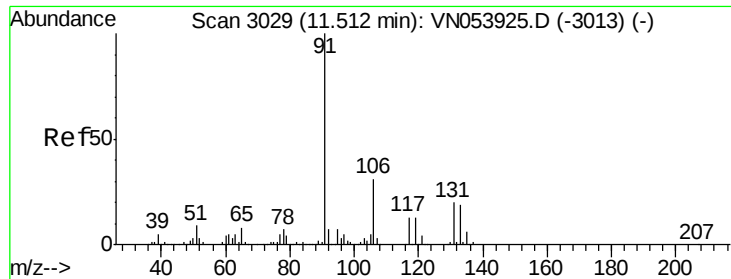


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





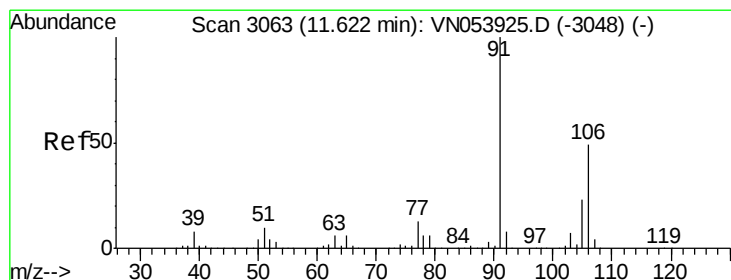
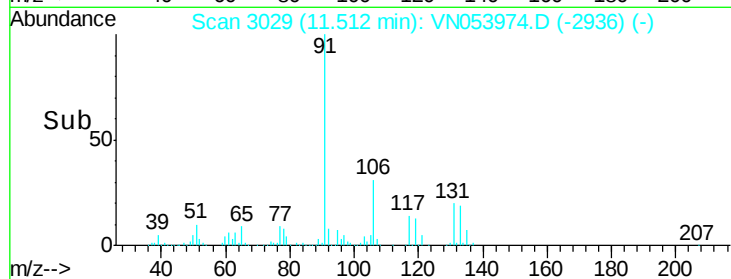
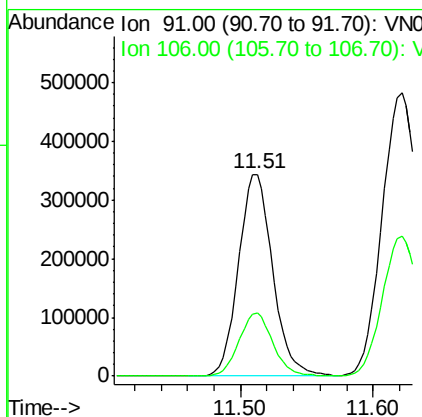
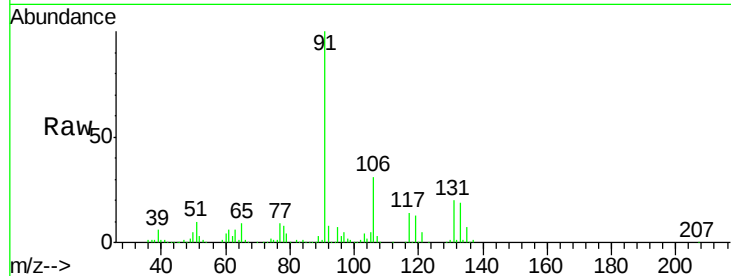
#67
Ethyl Benzene
Concen: 19.117 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion: 91 Resp: 616460
Ion Ratio Lower Upper
91 100
106 31.1 25.2 37.8

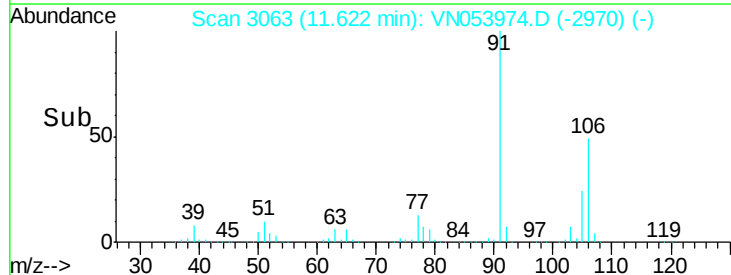
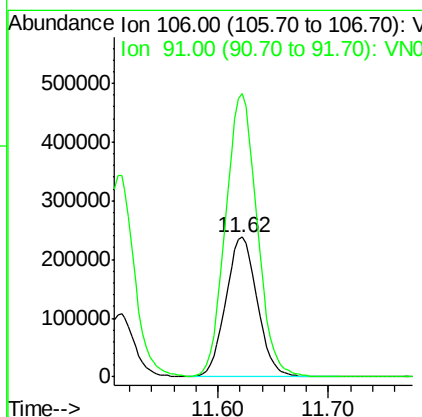
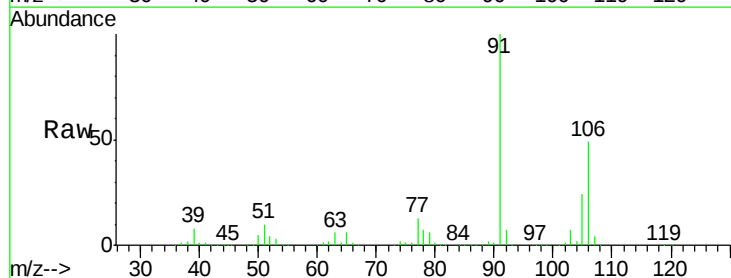
Manual Integrations
APPROVED

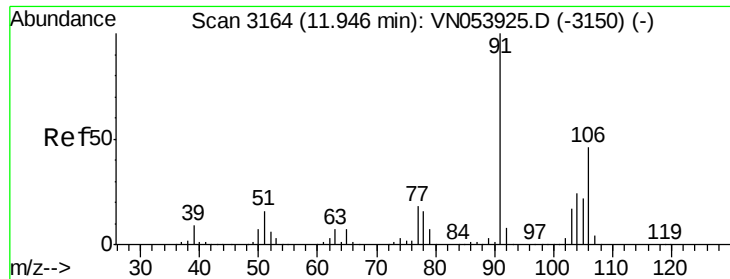
MMDadoda
2/28/2019 2:55:37 PM



#68
m/p-Xylenes
Concen: 38.689 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion: 106 Resp: 470870
Ion Ratio Lower Upper
106 100
91 203.1 158.9 238.3





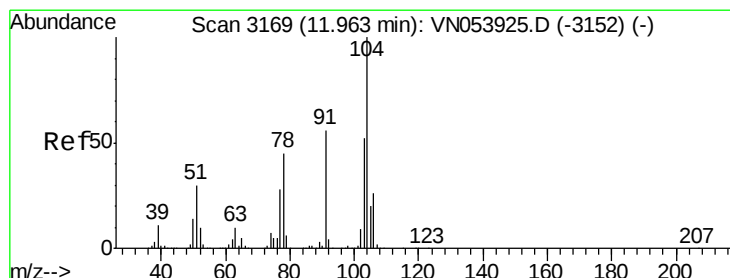
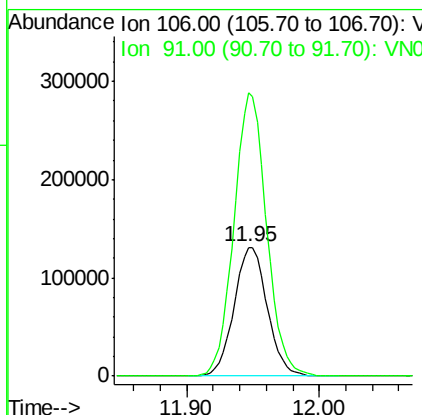
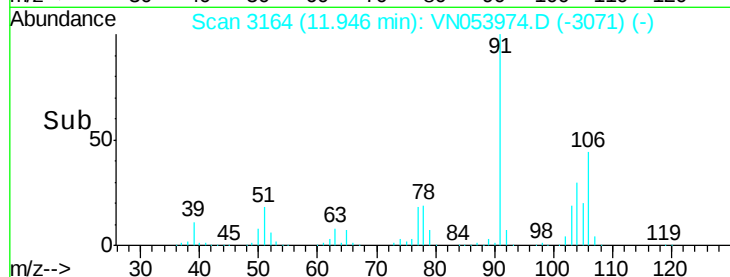
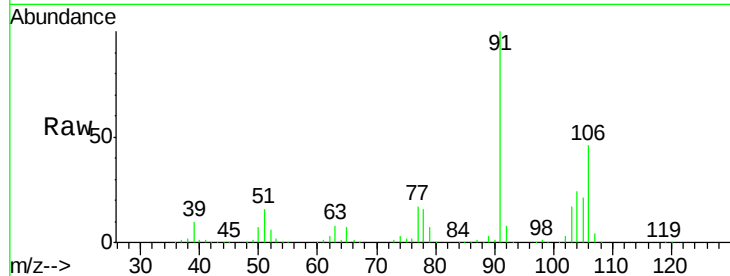
#69
o-Xylene
Concen: 19.072 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

Tot Ion:106 Resp: 228073
Ion Ratio Lower Upper
106 100
91 215.8 106.0 318.0

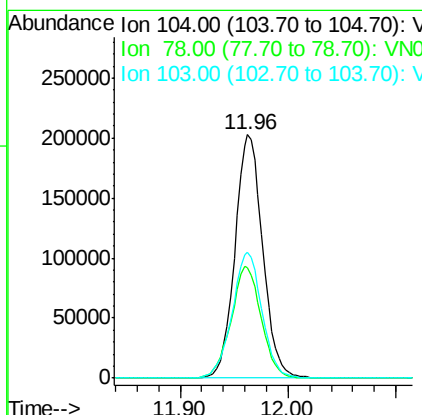
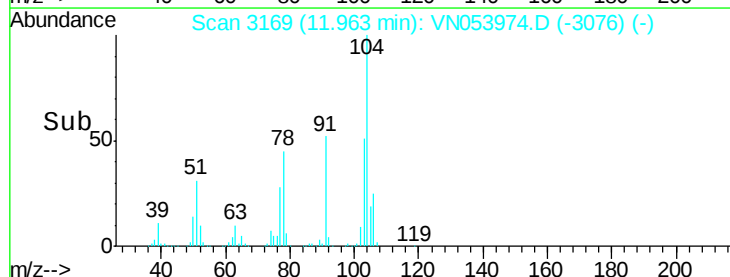
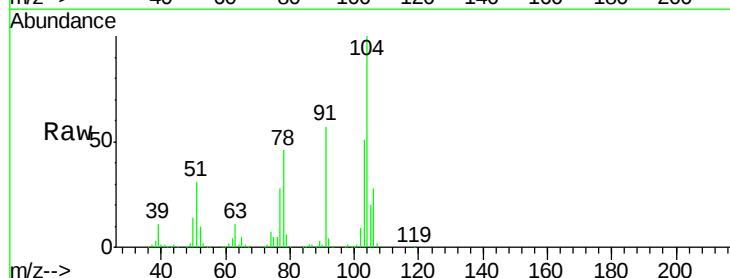
Manual Integrations
APPROVED

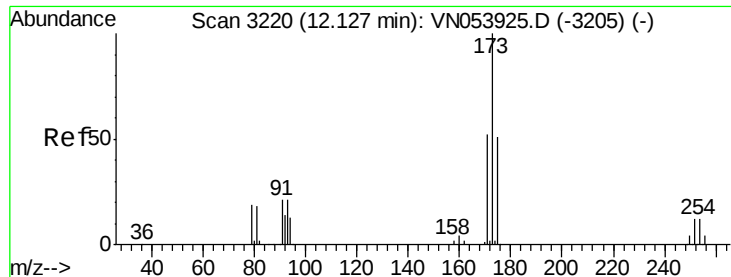
MMDadoda
2/28/2019 2:55:37 PM



#70
Styrene
Concen: 19.715 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion:104 Resp: 362638
Ion Ratio Lower Upper
104 100
78 50.0 38.1 57.1
103 55.5 44.6 67.0





#71

Bromoform

Concen: 18.542 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

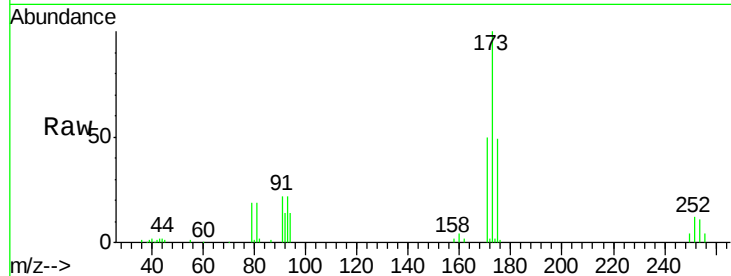
ClientSampleId :

VN0227WBSD01

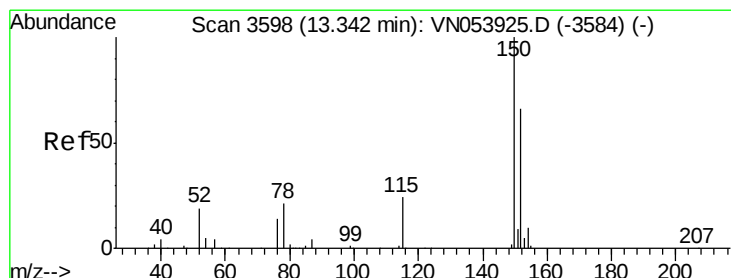
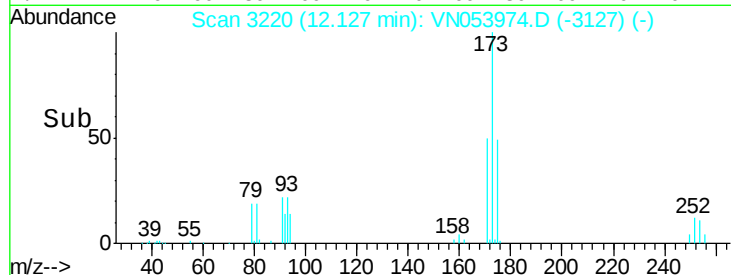
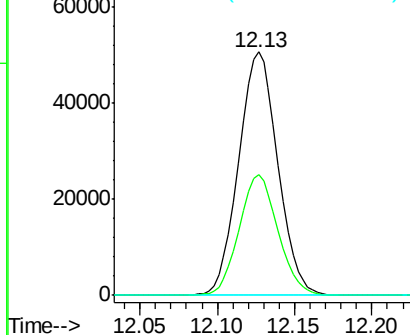
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.3	72.8
254	0.0	0.2	0.2

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

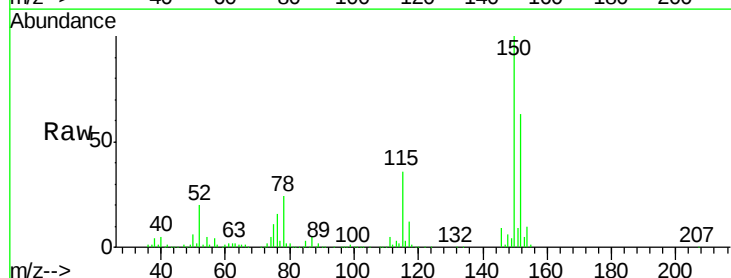
RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

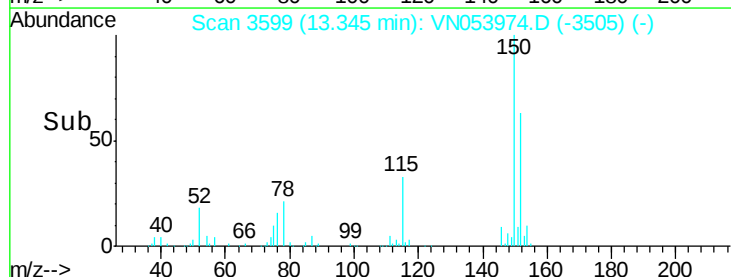
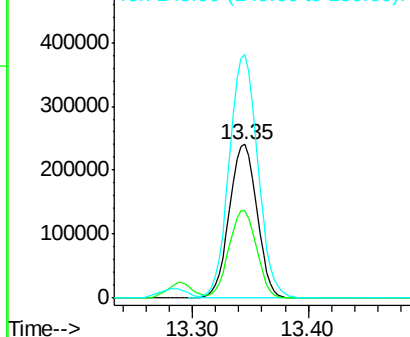
Lab File: VN053974.D

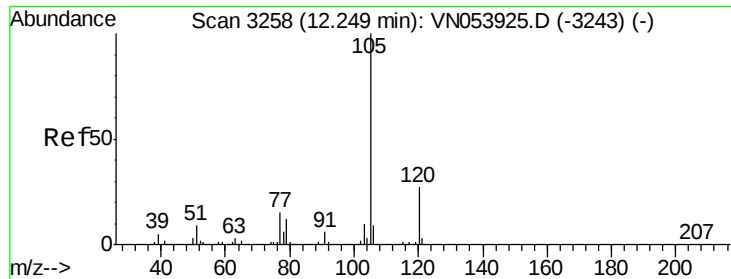
Acq: 27 Feb 2019 17:57

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.0	27.2	81.6
150	163.6	0.0	348.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.583 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBSD01

Tot Ion: 105 Resp: 605228

Ion Ratio Lower Upper

105 100

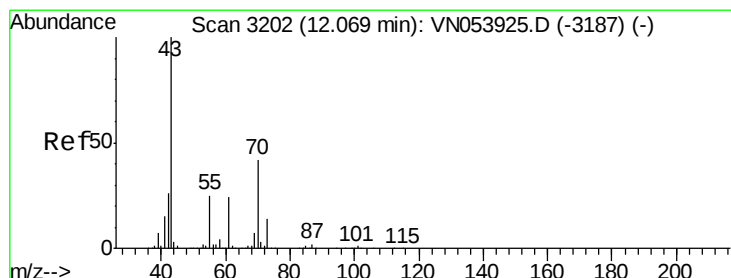
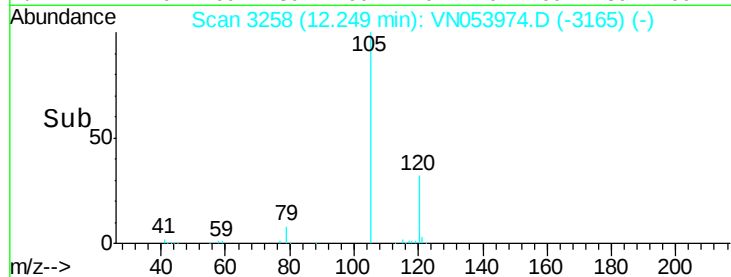
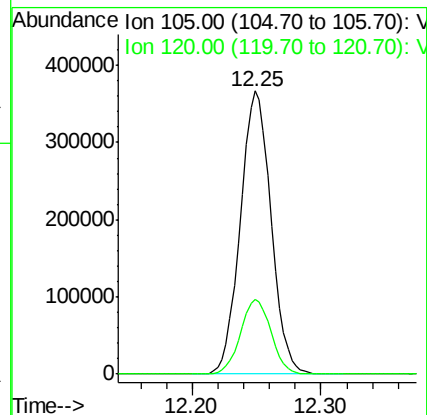
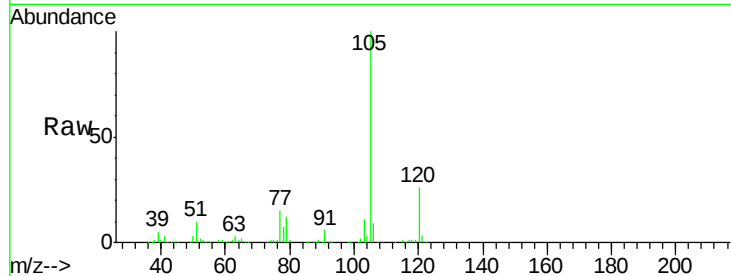
120 26.4 13.5 40.5

Manual Integrations

APPROVED

MMDadoda

2/28/2019 2:55:37 PM



#74

N-ethyl acetate

Concen: 20.507 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Tgt Ion: 43 Resp: 166113

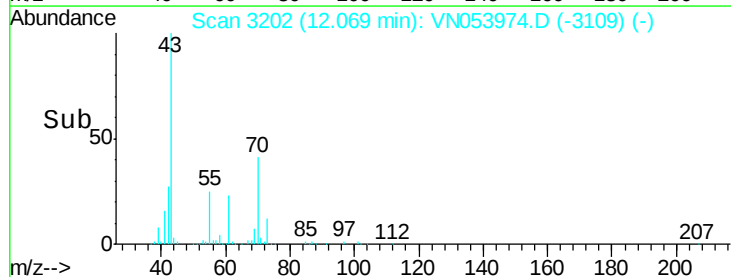
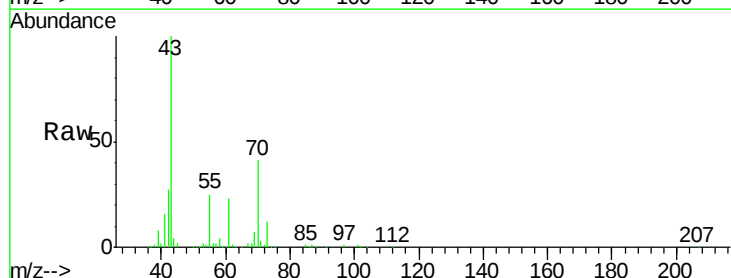
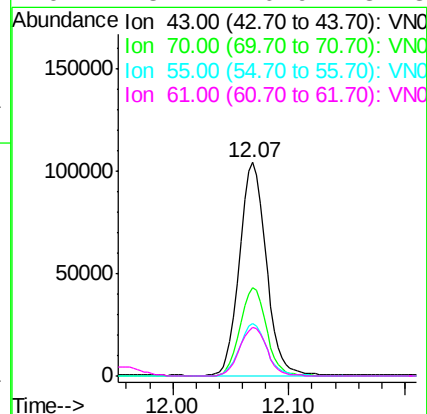
Ion Ratio Lower Upper

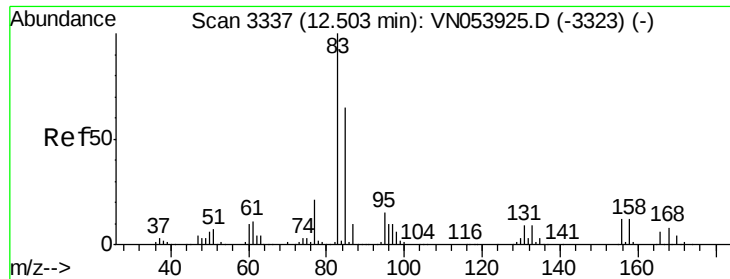
43 100

70 40.9 37.4 56.2

55 24.9 21.4 32.0

61 23.4 20.9 31.3





#75

1,1,2,2-Tetrachloroethane

Concen: 19.724 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

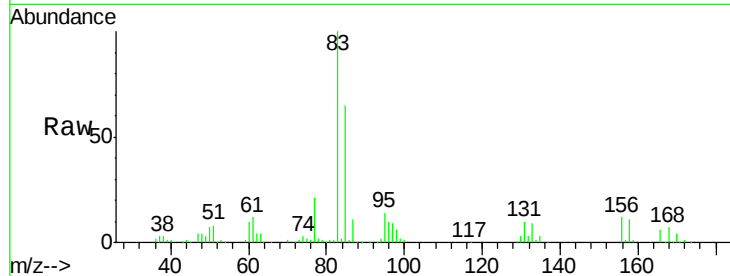
ClientSampleId :

VN0227WBSD01

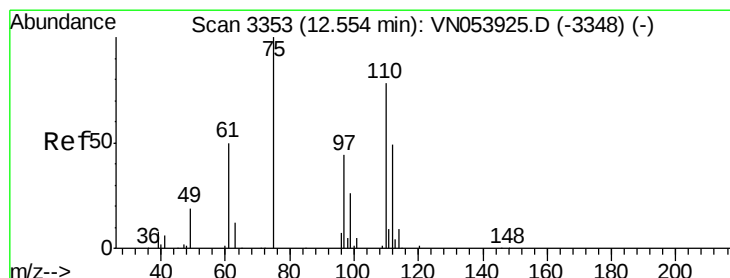
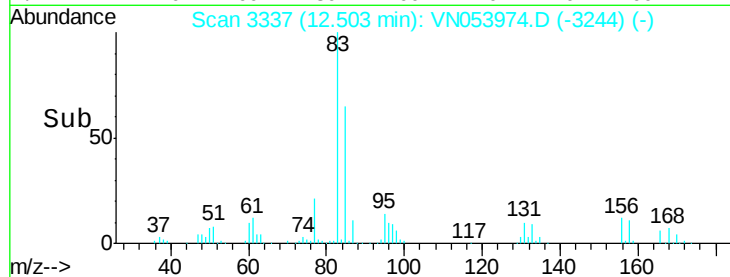
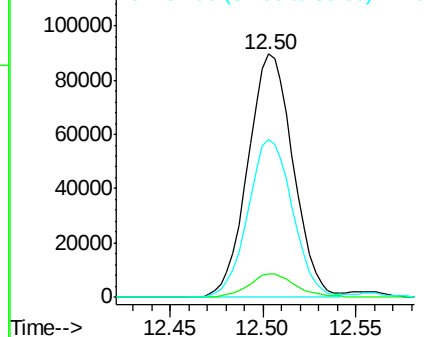
Tot Ion:	83	Resp:	152438
Ion Ratio	Lower	Upper	
83	100		
131	9.9	5.3	16.1
85	64.1	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



Abundance Ion 82.90 (82.60 to 83.60): VN053974.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 20.002 ug/l m

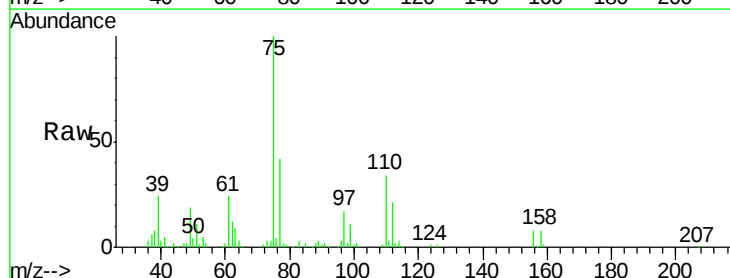
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

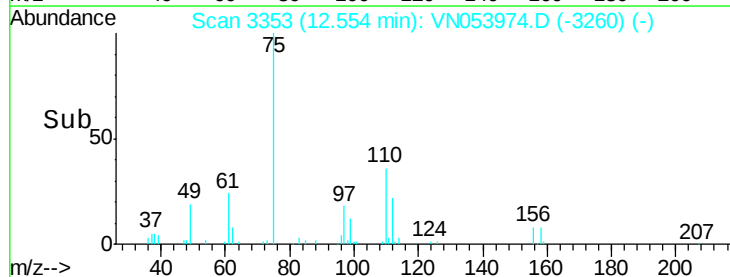
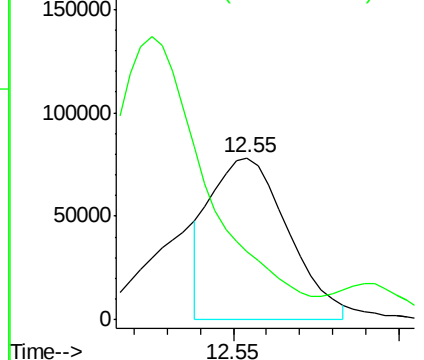
Lab File: VN053974.D

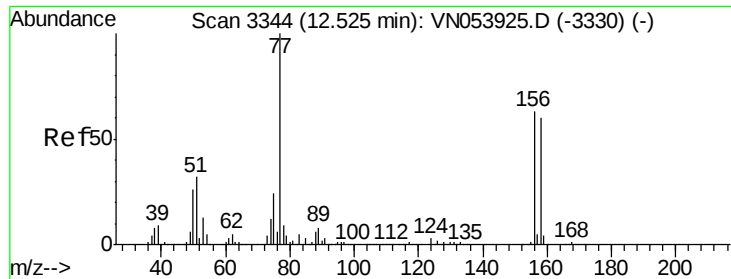
Acq: 27 Feb 2019 17:57

Tgt Ion:	75	Resp:	127394
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN053974.D (-3260) (-)





#77

Bromobenzene

Concen: 19.155 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

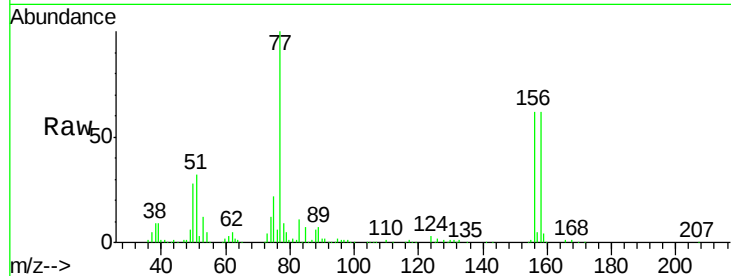
ClientSampleId :

VN0227WBSD01

Tot Ion:	156	Resp:	150304
Ion Ratio	Lower	Upper	
156	100		
77	188.7	84.0	252.2
158	98.1	48.5	145.6

Manual Integrations
APPROVED

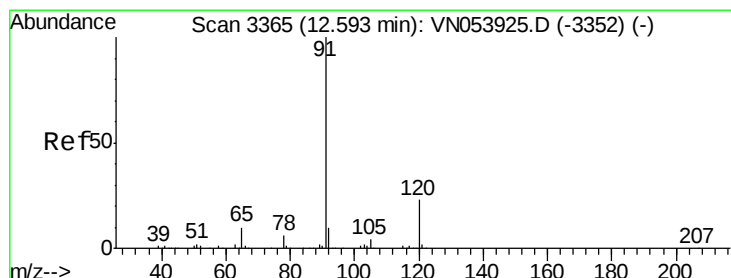
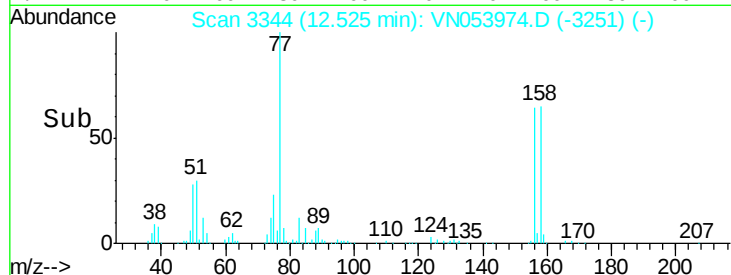
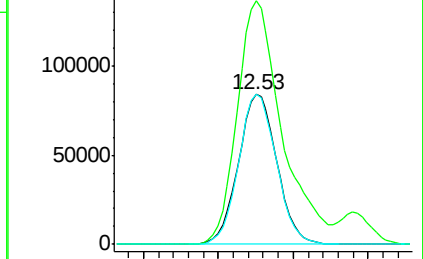
MMDadoda
2/28/2019 2:55:37 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.761 ug/l

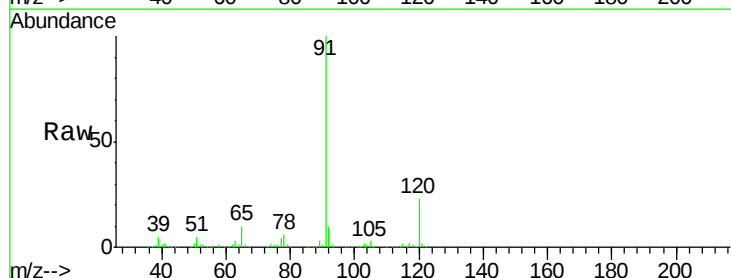
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN053974.D

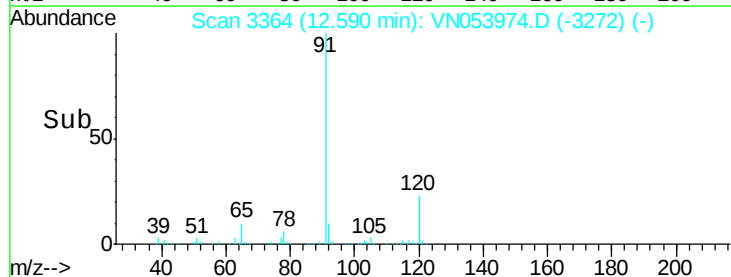
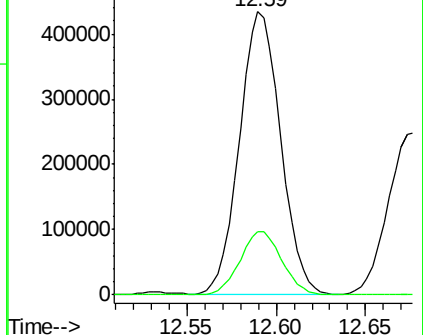
Acq: 27 Feb 2019 17:57

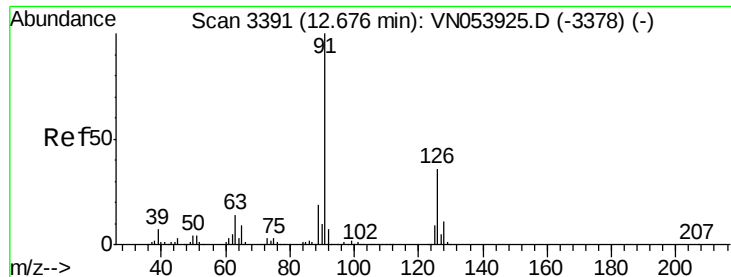
Tgt Ion:	91	Resp:	694554
Ion Ratio	Lower	Upper	
91	100		
120	22.8	11.9	35.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.859 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

ClientSampled :

VN0227WBSD01

Tot Ion: 91 Resp: 419316

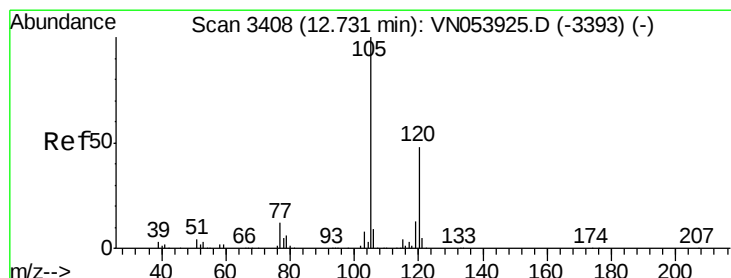
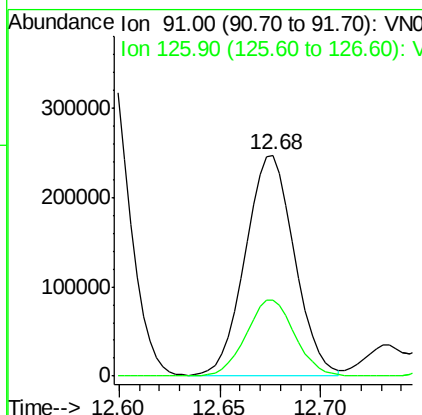
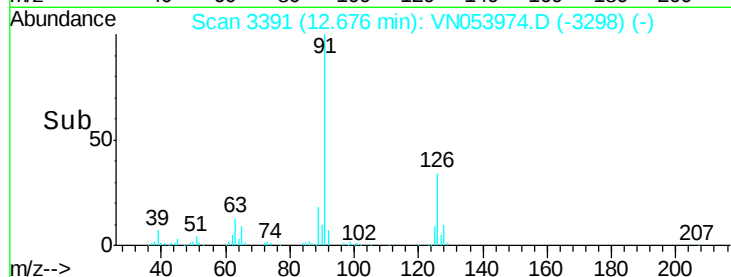
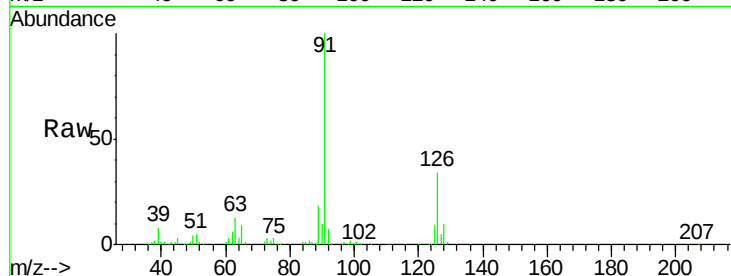
Ion Ratio Lower Upper

91 100

126 34.3 18.1 54.4

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



#80

1,3,5-Trimethylbenzene

Concen: 19.920 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN053974.D

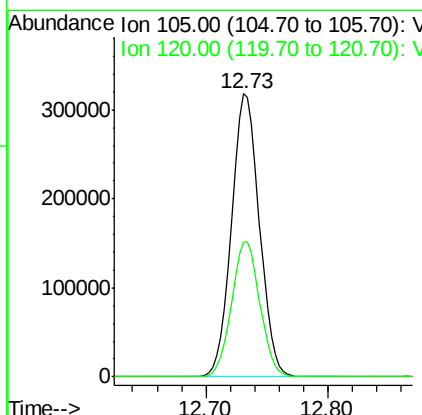
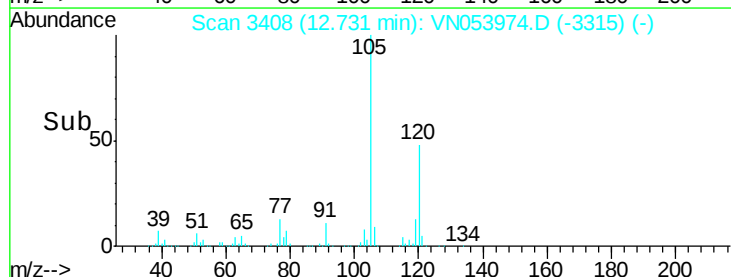
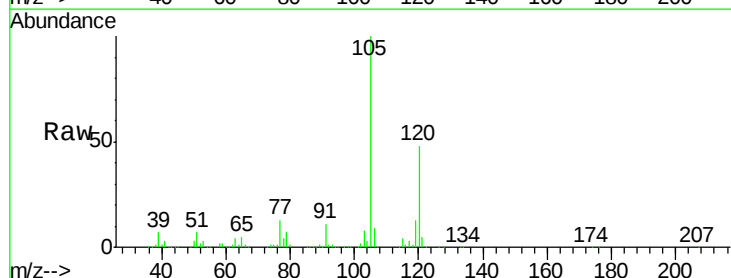
Acq: 27 Feb 2019 17:57

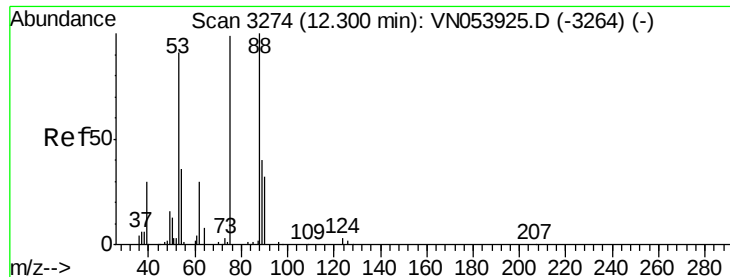
Tgt Ion: 105 Resp: 504019

Ion Ratio Lower Upper

105 100

120 48.6 25.1 75.2





#81

trans-1,4-Dichloro-2-butene

Concen: 18.087 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

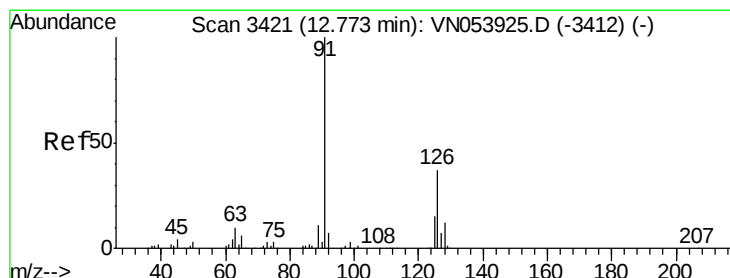
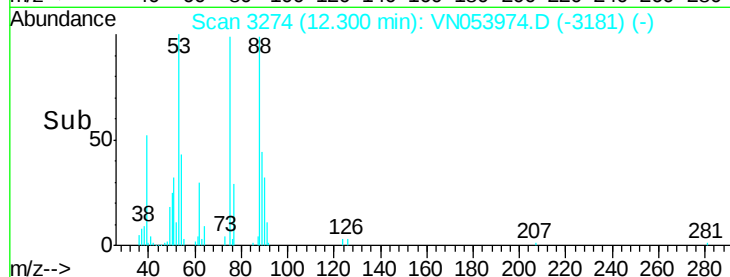
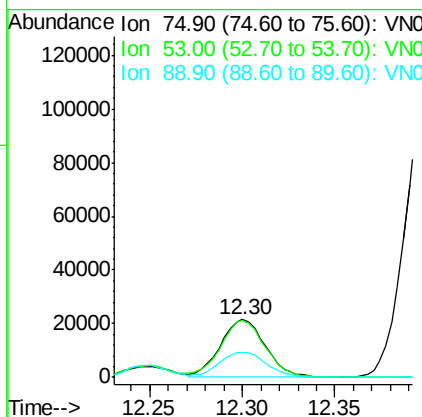
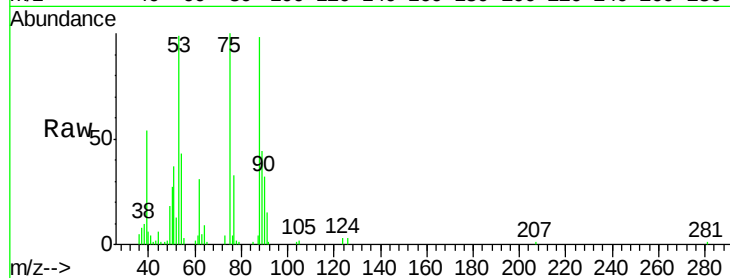
ClientSampleId :

VN0227WBSD01

Tot Ion:	75	Resp:	36448
Ion	Ratio	Lower	Upper
75	100		
53	98.3	68.6	102.8
89	45.3	35.3	52.9

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



#82

4-Chlorotoluene

Concen: 19.943 ug/l

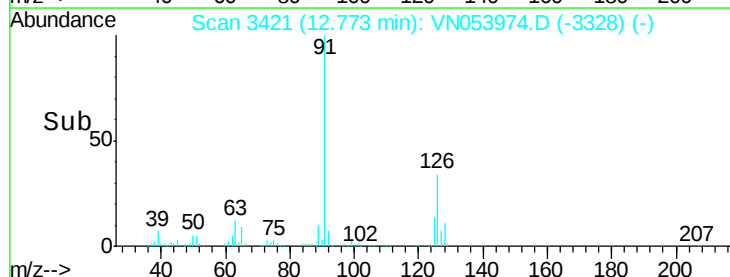
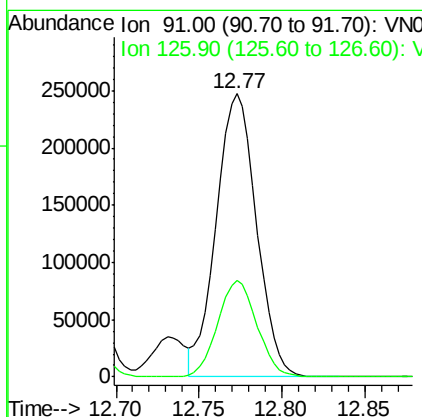
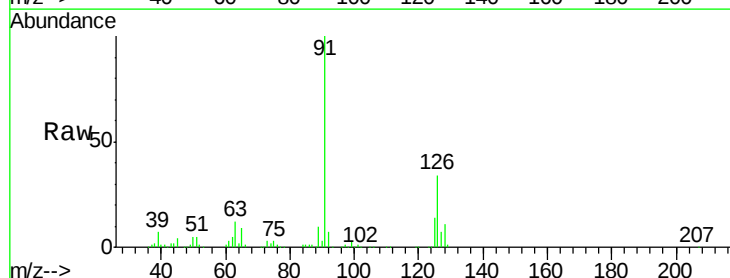
RT: 12.77 min Scan# 3421

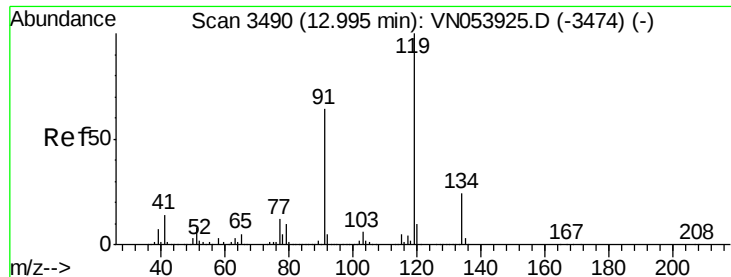
Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Tgt Ion:	91	Resp:	416169
Ion	Ratio	Lower	Upper
91	100		
126	33.3	18.0	54.0





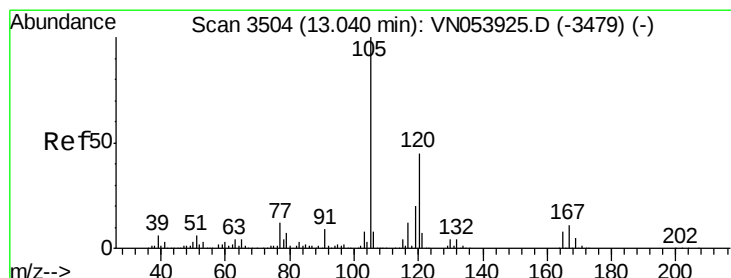
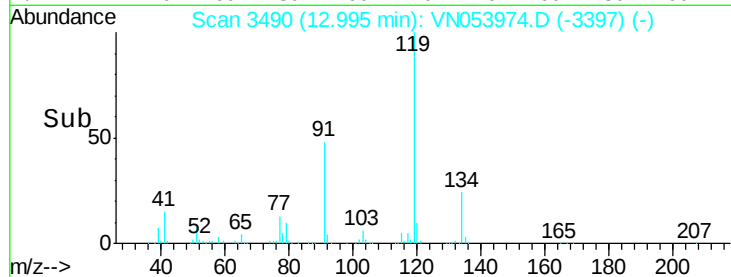
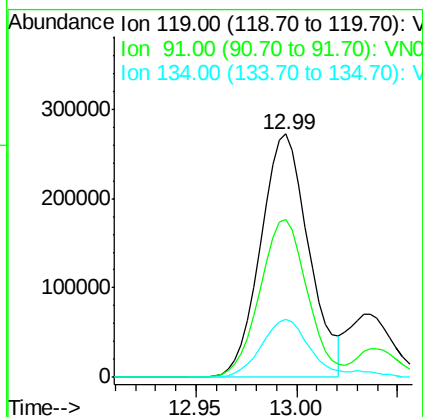
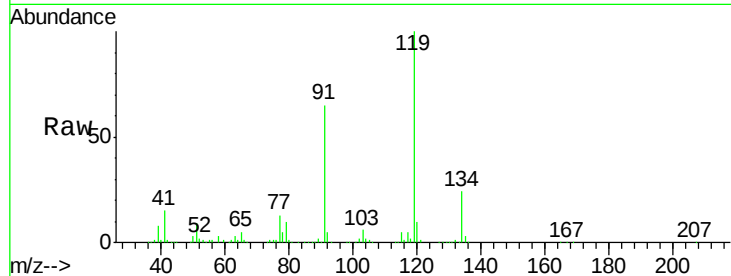
#83
 tert-Butylbenzene
 Concen: 20.247 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	453076		
91	64.1	30.6	91.8	
134	25.4	13.0	39.0	

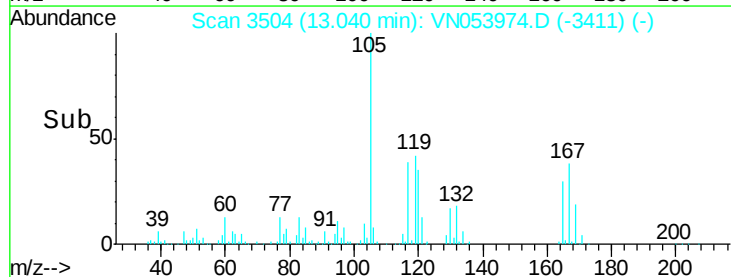
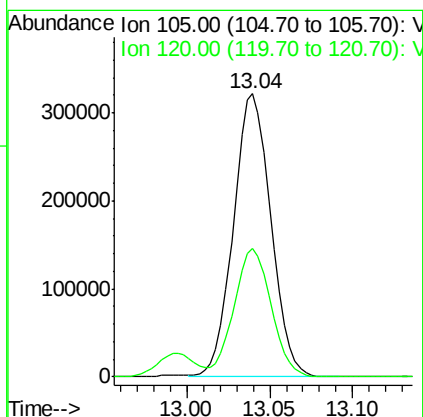
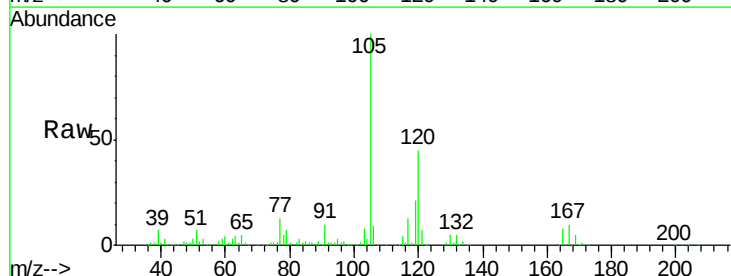
Manual Integrations
 APPROVED

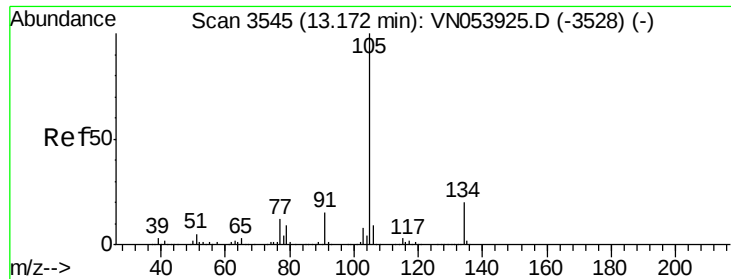
MMDadoda
 2/28/2019 2:55:37 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.963 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	504272		
120	45.3	23.2	69.5	





#85

sec-Butylbenzene

Concen: 20.055 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

ClientSampleId :

VN0227WBSD01

Tot Ion:105 Resp: 612976

Ion Ratio Lower Upper

105 100

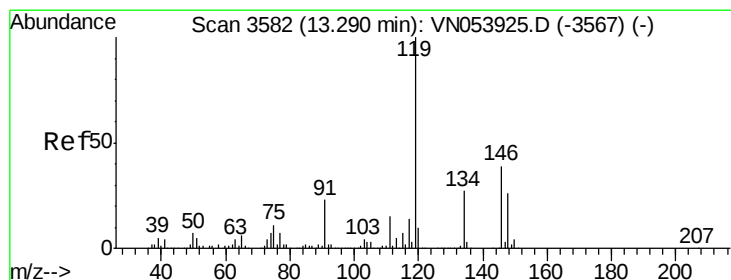
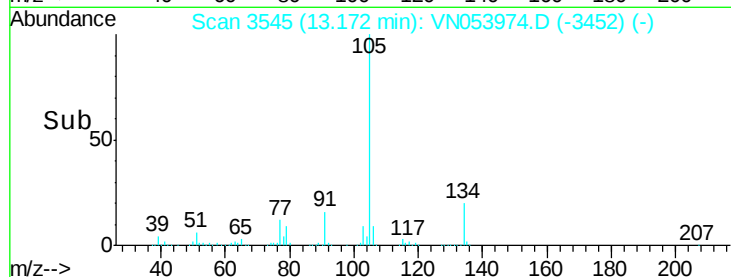
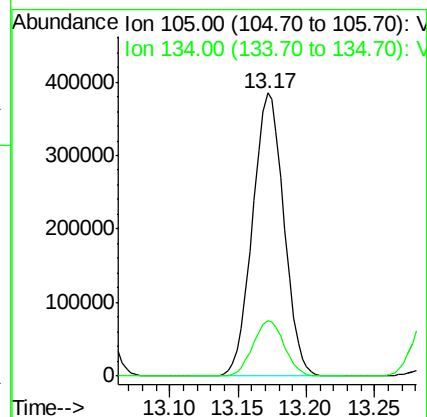
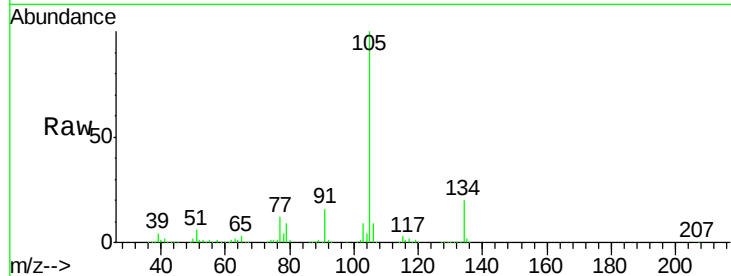
134 19.8 10.4 31.1

Manual Integrations

APPROVED

MMDadoda

2/28/2019 2:55:37 PM



#86

p-Isopropyltoluene

Concen: 19.921 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

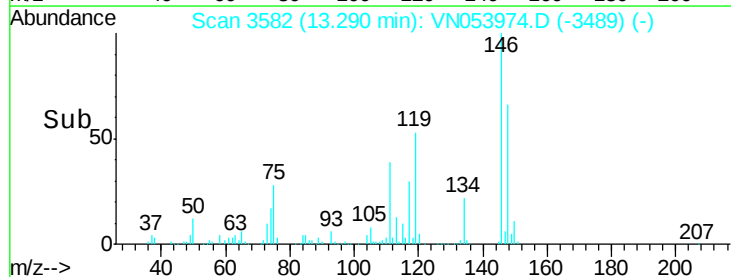
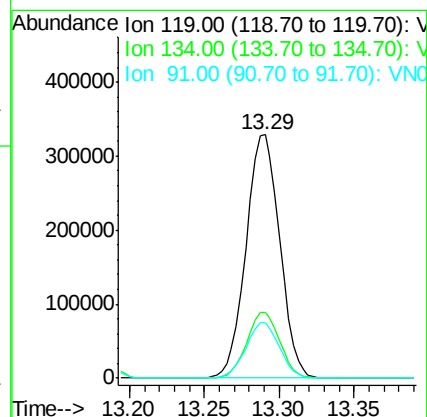
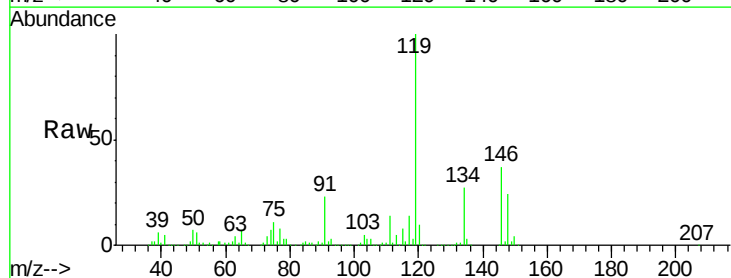
Tgt Ion:119 Resp: 514725

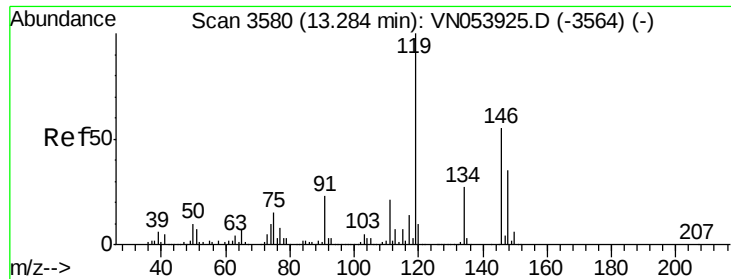
Ion Ratio Lower Upper

119 100

134 26.5 13.5 40.4

91 22.7 10.9 32.6





#87

1,3-Dichlorobenzene

Concen: 18.974 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

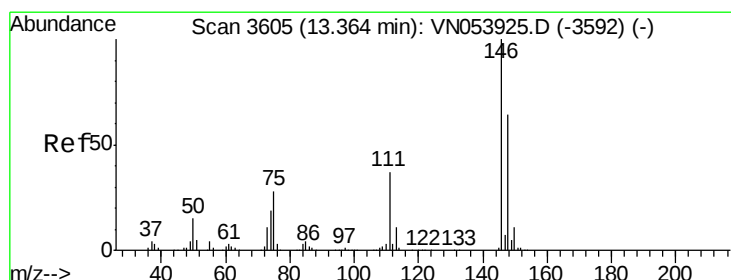
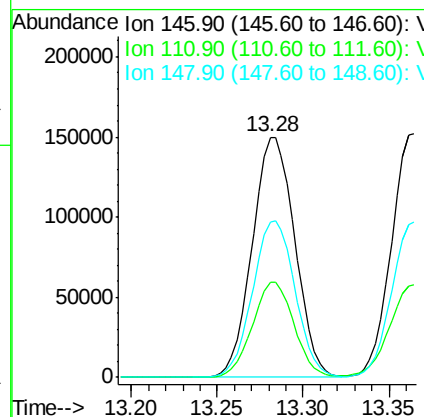
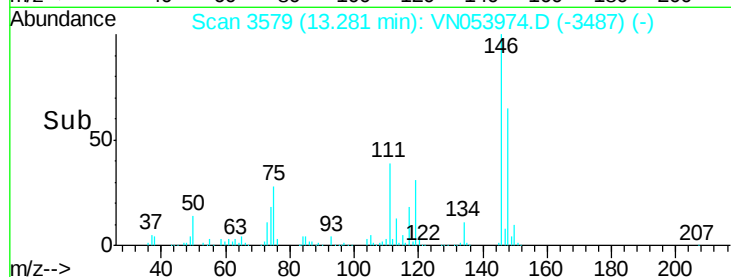
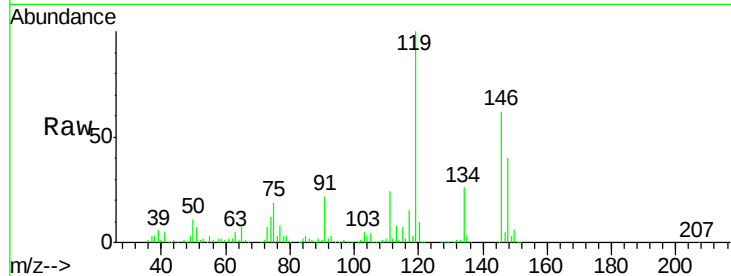
ClientSampleId :

VN0227WBSD01

Tot Ion:	146	Resp:	257557
Ion Ratio	Lower	Upper	
146	100		
111	38.7	18.7	56.1
148	65.1	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



#88

1,4-Dichlorobenzene

Concen: 19.110 ug/l

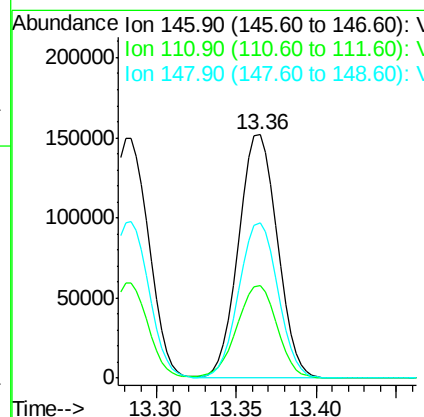
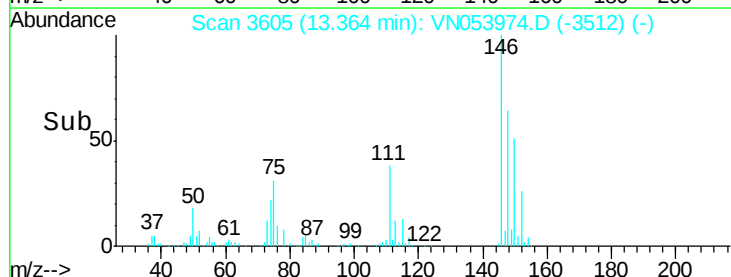
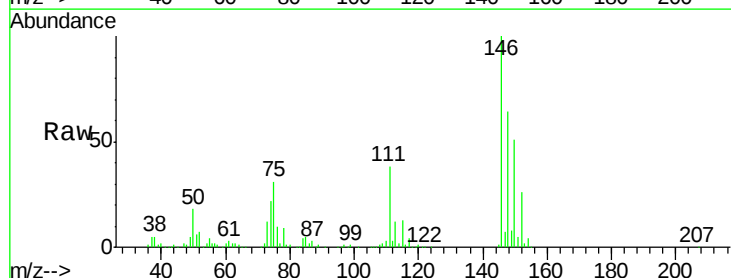
RT: 13.36 min Scan# 3605

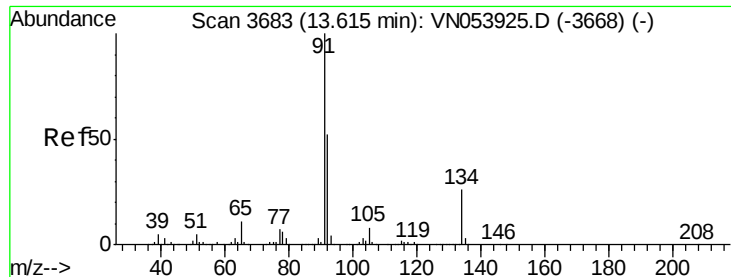
Delta R.T. -0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Tgt Ion:	146	Resp:	251662
Ion Ratio	Lower	Upper	
146	100		
111	39.5	18.0	54.0
148	64.3	32.1	96.5





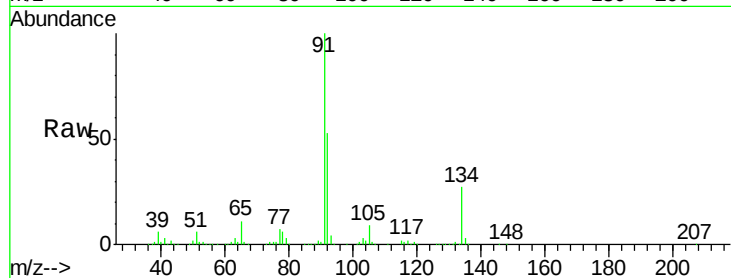
#89
n-Butylbenzene
Concen: 19.738 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Instrument :
MSVOA_N
ClientSampleId :
VN0227WBSD01

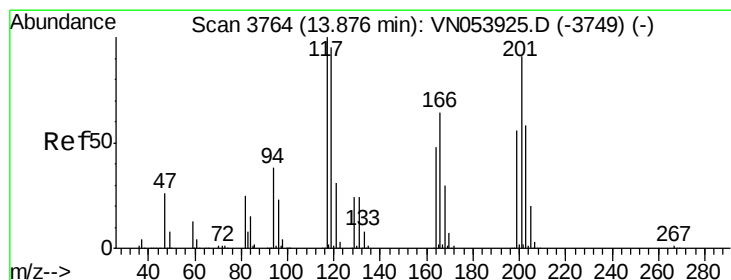
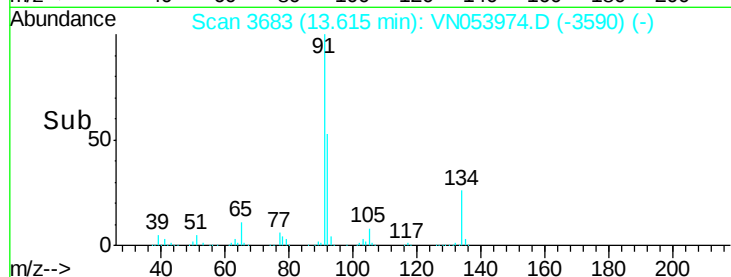
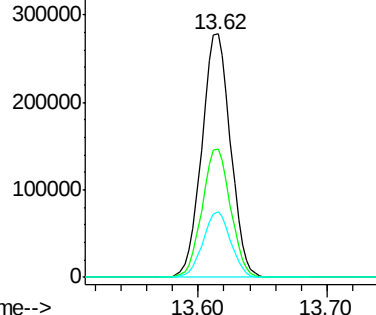
Tot Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.1	78.2
134	26.0	13.6	40.8

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM

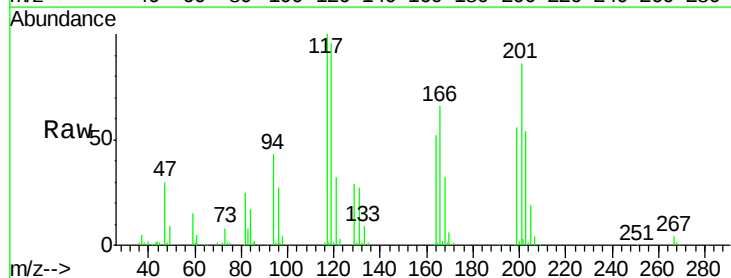


Abundance Ion 91.00 (90.70 to 91.70): VN053925.D (-3668) (-)
Ion 92.00 (91.70 to 92.70): VN053925.D (-3668) (-)
Ion 134.00 (133.70 to 134.70): VN053925.D (-3668) (-)

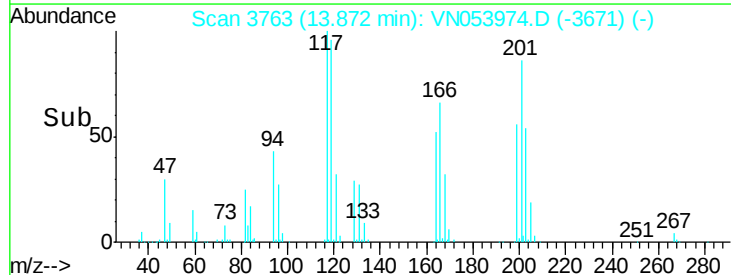
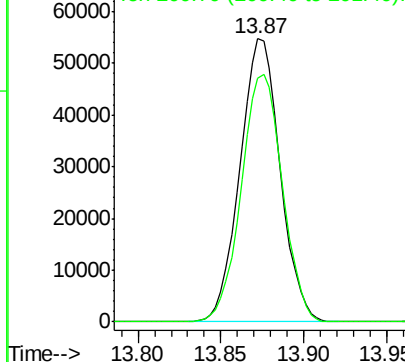


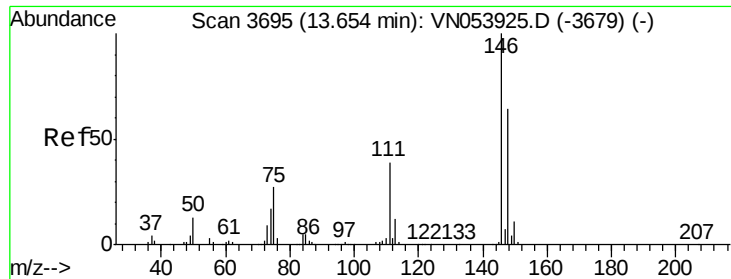
#90
Hexachloroethane
Concen: 18.393 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053974.D
Acq: 27 Feb 2019 17:57

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.3	48.0	144.2



Abundance Ion 116.80 (116.50 to 117.50): VN053925.D (-3749) (-)
Ion 200.70 (200.40 to 201.40): VN053925.D (-3749) (-)





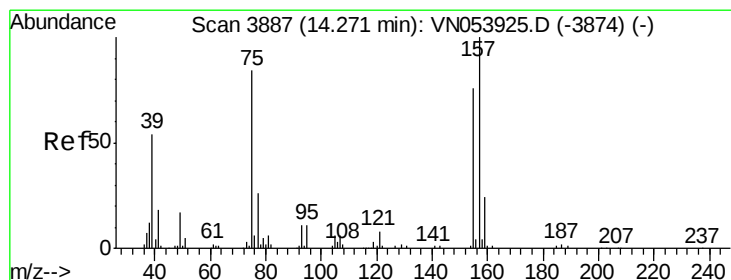
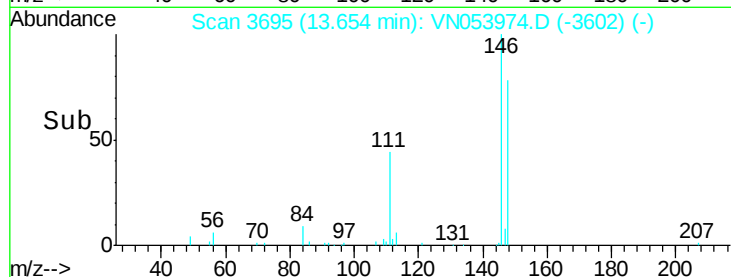
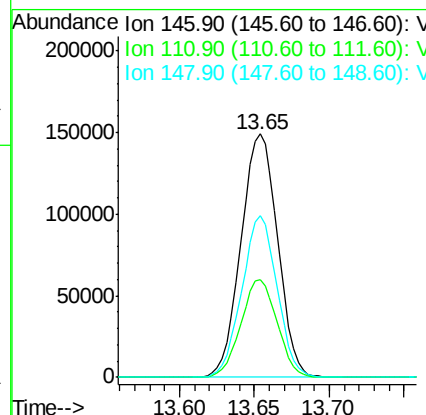
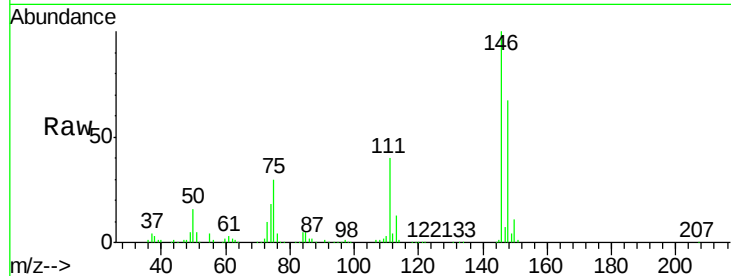
#91
 1,2-Dichlorobenzene
 Concen: 19.365 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.1	57.5
148	63.9	32.1	96.5

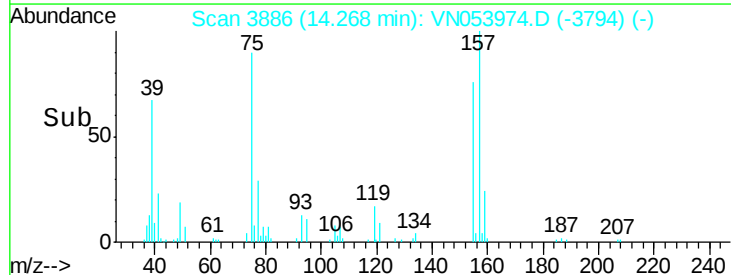
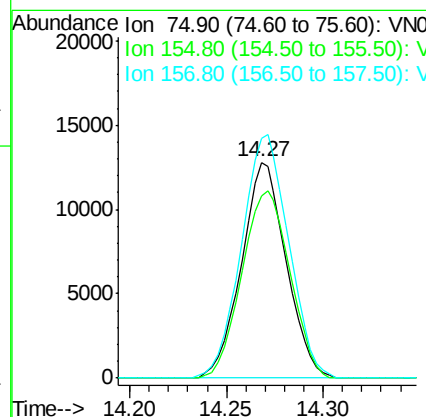
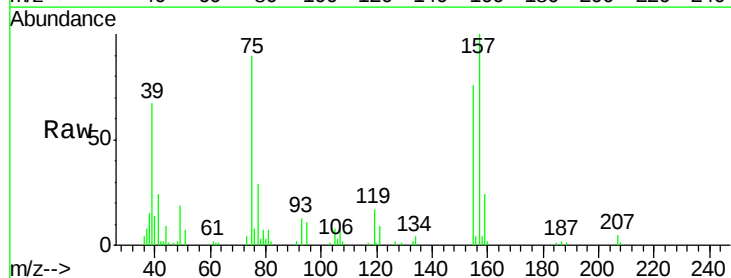
Manual Integrations
 APPROVED

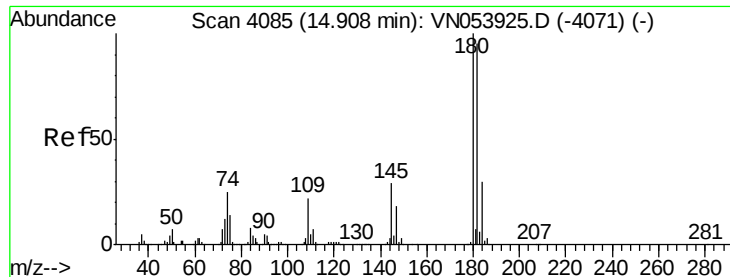
MMDadoda
 2/28/2019 2:55:37 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.827 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.3	49.5	148.5
157	119.2	64.8	194.6





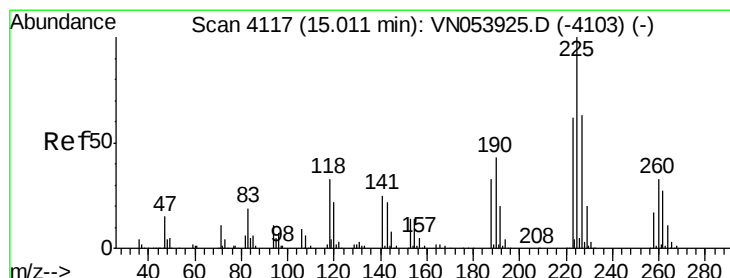
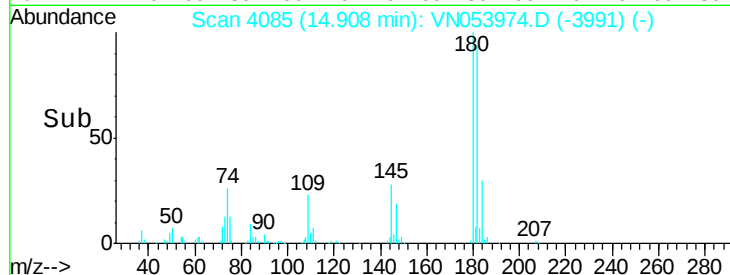
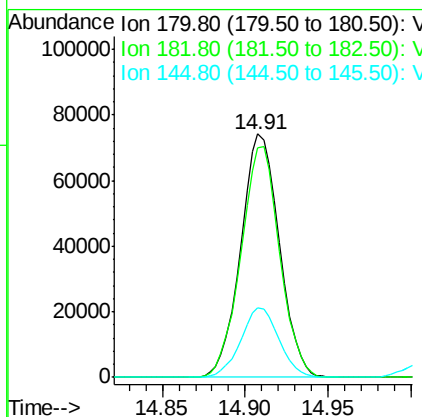
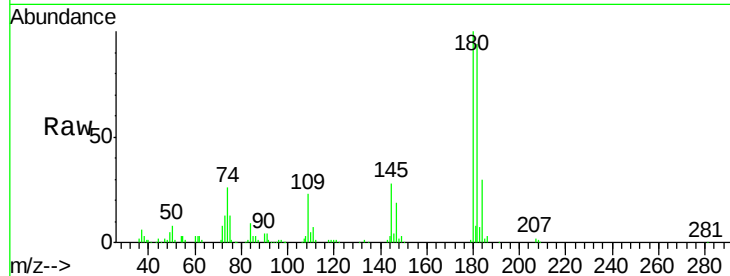
#93
 1,2,4-Trichlorobenzene
 Concen: 17.915 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0227WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.2	48.6	145.9	
145	28.2	13.8	41.3	

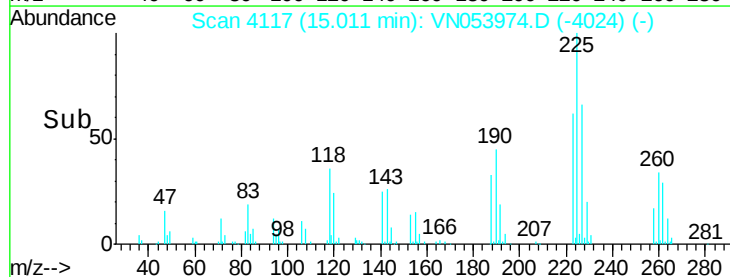
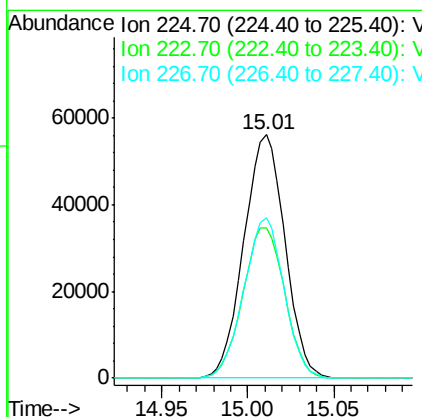
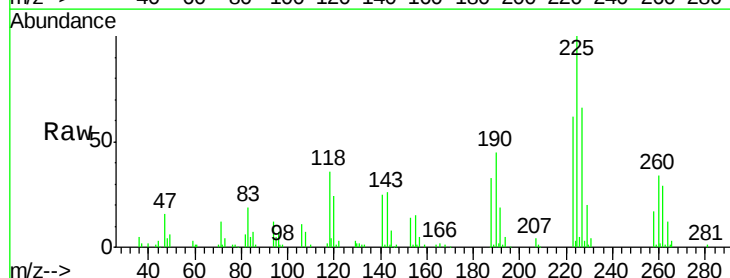
Manual Integrations
 APPROVED

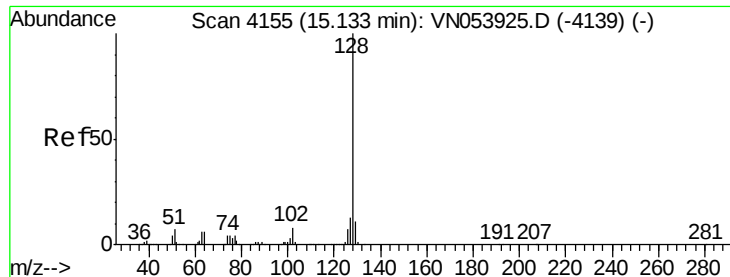
MMDadoda
 2/28/2019 2:55:37 PM



#94
 Hexachlorobutadiene
 Concen: 19.590 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN053974.D
 Acq: 27 Feb 2019 17:57

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.0	30.9	92.5	
227	64.5	32.5	97.4	





#95

Naphthalene

Concen: 17.577 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Instrument :

MSVOA_N

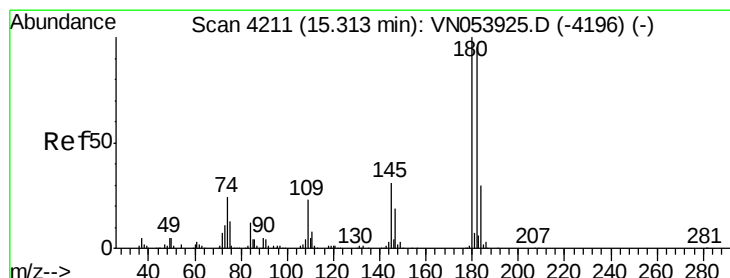
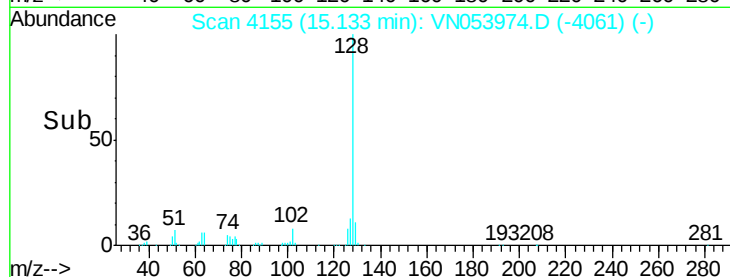
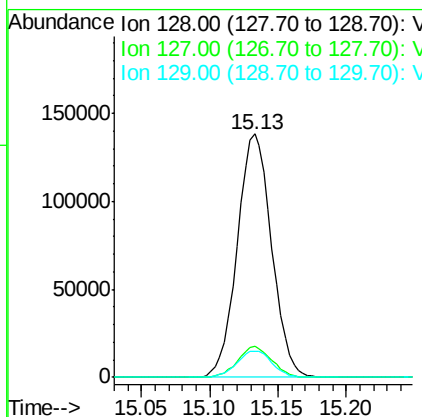
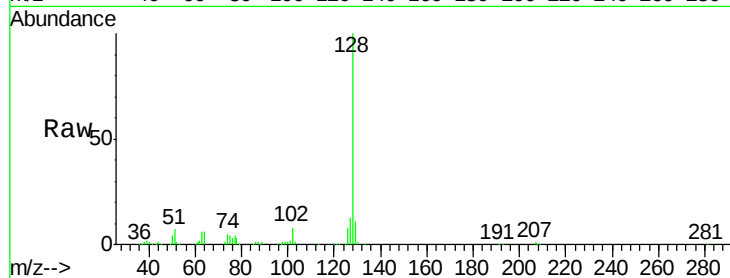
ClientSampleId :

VN0227WBSD01

Tot Ion:	128	Resp:	241334
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.2	15.2
129	11.0	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
2/28/2019 2:55:37 PM



#96

1,2,3-Trichlorobenzene

Concen: 18.104 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053974.D

Acq: 27 Feb 2019 17:57

Tgt Ion:	180	Resp:	119549
Ion Ratio	Lower	Upper	
180	100		
182	96.4	47.3	141.8
145	30.5	14.4	43.0

