

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121318\
 Data File : VN052868.D
 Acq On : 13 Dec 2018 16:54
 Operator : MD\SY
 Sample : VN1213WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213WBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 9:03:16 AM

Quant Time: Dec 14 03:09:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1065252	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1671736	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1482962	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	687165	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	571380	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
35) Dibromofluoromethane	7.59	113	466179	49.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.92%	
50) Toluene-d8	10.09	98	2023359	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
62) 4-Bromofluorobenzene	12.40	95	693352	50.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	212848	19.410	ug/l	98
3) Chloromethane	2.06	50	258743	19.660	ug/l	99
4) Vinyl Chloride	2.19	62	261019	19.824	ug/l	99
5) Bromomethane	2.58	94	160686	19.786	ug/l	99
6) Chloroethane	2.71	64	153900	19.774	ug/l	99
7) Trichlorofluoromethane	3.03	101	323853	19.839	ug/l	99
8) Diethyl Ether	3.41	74	125461	21.069	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.77	101	197713	19.542	ug/l	98
10) Methyl Iodide	3.96	142	275811	19.467	ug/l	100
11) Tert butyl alcohol	4.77	59	60906	96.236	ug/l #	89
12) 1,1-Dichloroethene	3.74	96	196294	20.043	ug/l	99
13) Acrolein	3.61	56	103722	174.070	ug/l	99
14) Allyl chloride	4.33	41	322234	20.144	ug/l	95
15) Acrylonitrile	4.99	53	353592	99.588	ug/l	99
16) Acetone	3.82	43	226835	89.169	ug/l	98
17) Carbon Disulfide	4.06	76	560683	18.636	ug/l	100
18) Methyl Acetate	4.33	43	175950	18.846	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	544850	20.492	ug/l	99
20) Methylene Chloride	4.55	84	224942	19.649	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	210732	19.860	ug/l	99
22) Diisopropyl ether	5.95	45	692879	20.303	ug/l	99
23) Vinyl Acetate	5.90	43	2034988	100.212	ug/l	99
24) 1,1-Dichloroethane	5.85	63	395915	20.117	ug/l	99
25) 2-Butanone	6.83	43	375844	95.217	ug/l	100
26) 2,2-Dichloropropane	6.83	77	259406	17.899	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	243453	20.216	ug/l	99
28) Bromochloromethane	7.20	49	176062	19.923	ug/l	97
29) Tetrahydrofuran	7.21	42	274025	101.690	ug/l	99
30) Chloroform	7.37	83	385200	20.072	ug/l	99
31) Cyclohexane	7.66	56	380099	19.449	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	317973	19.803	ug/l	99
36) 1,1-Dichloropropene	7.79	75	303156	19.692	ug/l	100
37) Ethyl Acetate	6.93	43	181141	19.587	ug/l	99
38) Carbon Tetrachloride	7.78	117	273173	19.278	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121318\
 Data File : VN052868.D
 Acq On : 13 Dec 2018 16:54
 Operator : MD\SY
 Sample : VN1213WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1213WBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 9:03:16 AM

Quant Time: Dec 14 03:09:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	357354	18.916	ug/l	98
40) Benzene	8.04	78	921874	19.952	ug/l	98
41) Methacrylonitrile	7.18	41	102270	19.959	ug/l	95
42) 1,2-Dichloroethane	8.13	62	271129	19.492	ug/l	99
43) Isopropyl Acetate	8.16	43	339679	17.915	ug/l	99
44) Trichloroethene	8.84	130	247546	19.835	ug/l	97
45) 1,2-Dichloropropane	9.12	63	242892	20.070	ug/l	99
46) Dibromomethane	9.21	93	137393	19.576	ug/l	98
47) Bromodichloromethane	9.40	83	283320	19.466	ug/l	99
48) Methyl methacrylate	9.20	41	164480	19.781	ug/l	99
49) 1,4-Dioxane	9.20	88	38700	410.024	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	867937	99.827	ug/l	100
52) Toluene	10.16	92	567202	20.269	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	277406	18.941	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	334996	19.195	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	200450	20.066	ug/l	98
56) Ethyl methacrylate	10.43	69	254183	19.827	ug/l	99
57) 1,3-Dichloropropane	10.71	76	342820	20.012	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	721518	100.865	ug/l	99
59) 2-Hexanone	10.75	43	571816	95.967	ug/l	99
60) Dibromochloromethane	10.90	129	205819	19.064	ug/l	100
61) 1,2-Dibromoethane	11.01	107	197879	20.040	ug/l	99
64) Tetrachloroethene	10.63	164	255349	20.034	ug/l	99
65) Chlorobenzene	11.43	112	615007	19.990	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	208746	19.509	ug/l	100
67) Ethyl Benzene	11.51	91	1059366	20.051	ug/l	99
68) m/p-Xylenes	11.62	106	801023	40.376	ug/l	99
69) o-Xylene	11.95	106	391854	20.227	ug/l	100
70) Styrene	11.96	104	639657	20.540	ug/l	100
71) Bromoform	12.13	173	135985	18.707	ug/l #	100
73) Isopropylbenzene	12.25	105	1043969	20.348	ug/l	99
74) N-amyl acetate	12.07	43	276648	19.640	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	226169	19.669	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	191044m	18.844	ug/l	
77) Bromobenzene	12.53	156	262870	20.144	ug/l	98
78) n-propylbenzene	12.59	91	1168445	19.969	ug/l	99
79) 2-Chlorotoluene	12.67	91	694047	20.063	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	840762	20.300	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	54246	17.189	ug/l	94
82) 4-Chlorotoluene	12.77	91	698286	19.743	ug/l	99
83) tert-Butylbenzene	12.99	119	742742	20.329	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	841018	20.058	ug/l	100
85) sec-Butylbenzene	13.17	105	987321	19.954	ug/l	100
86) p-Isopropyltoluene	13.29	119	852481	19.887	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	463733	19.997	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	450076	19.598	ug/l	99
89) n-Butylbenzene	13.62	91	689387	19.103	ug/l	99
90) Hexachloroethane	13.88	117	129732	18.073	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	441888	19.809	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	32529	18.767	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121318\
Data File : VN052868.D
Acq On : 13 Dec 2018 16:54
Operator : MD\SY
Sample : VN1213WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM

Quant Time: Dec 14 03:09:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 13 01:08:35 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	236433	19.498	ug/l	99
94) Hexachlorobutadiene	15.01	225	135885	19.361	ug/l	99
95) Naphthalene	15.13	128	507654	20.214	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	217600	19.557	ug/l	100

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

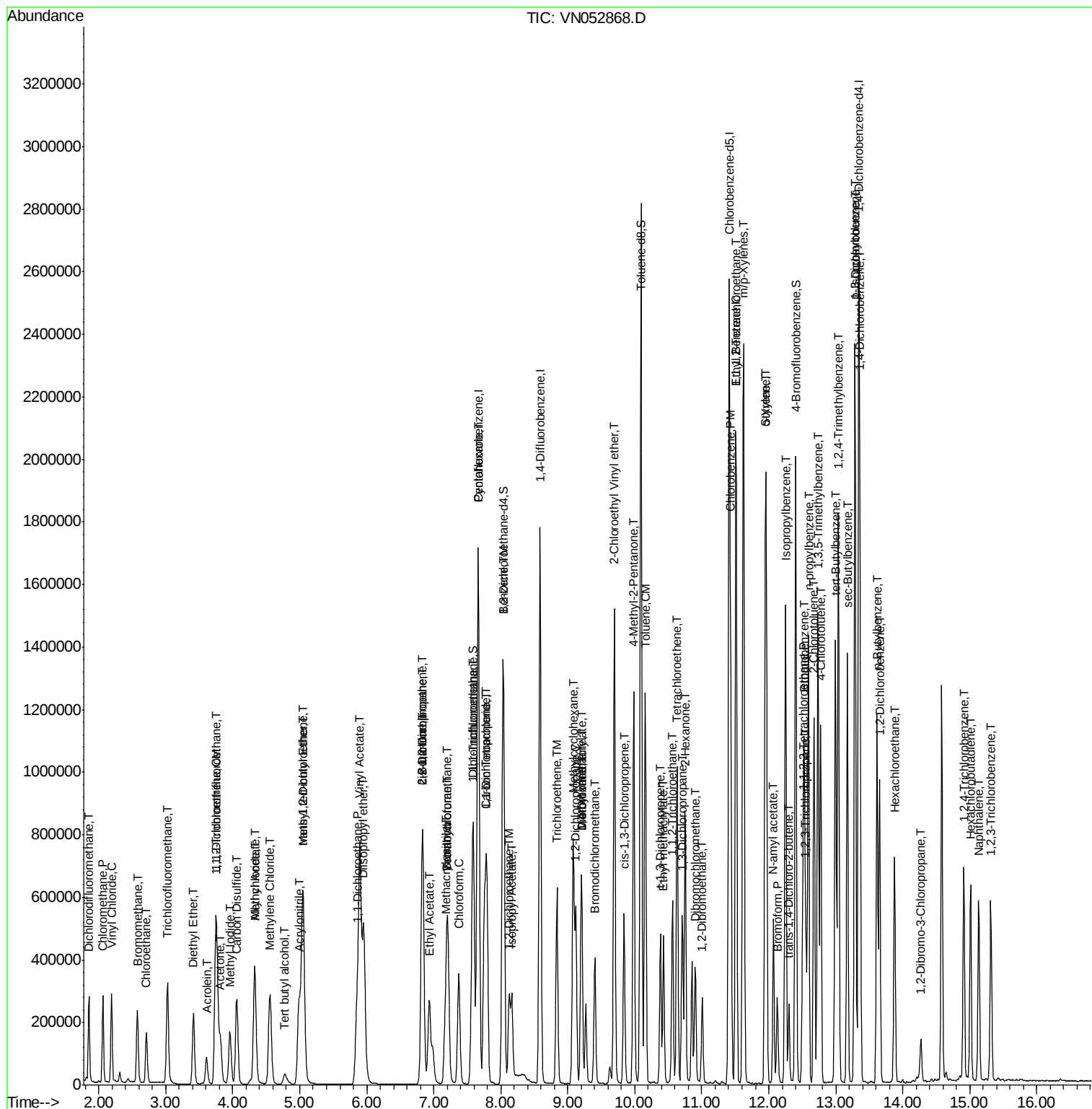
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121318\
Data File : VN052868.D
Acq On : 13 Dec 2018 16:54
Operator : MD\SY
Sample : VN1213WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 28

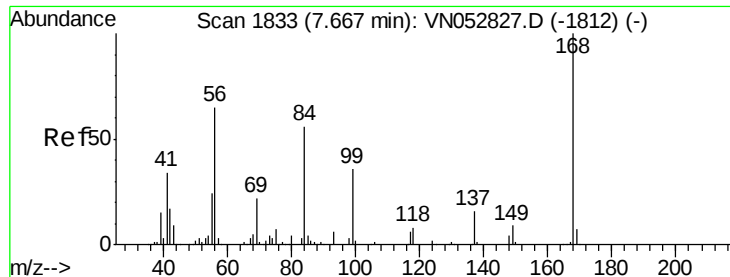
Instrument :
MSVOA_N
Client Sample Id :
VN1213WBSD01

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM

Quant Time: Dec 14 03:09:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 13 01:08:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

VN1213WBSD01

Tot Ion:168 Resp: 1065252

Ion Ratio Lower Upper

168 100

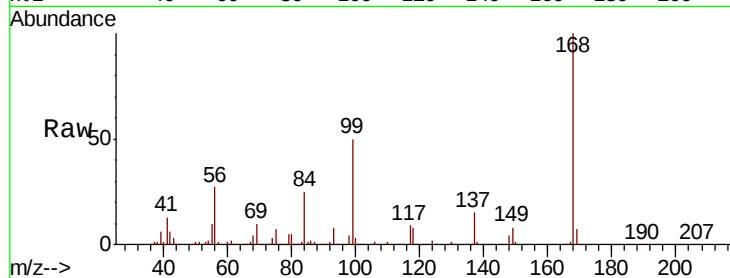
99 50.4 40.2 60.2

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:03:16 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

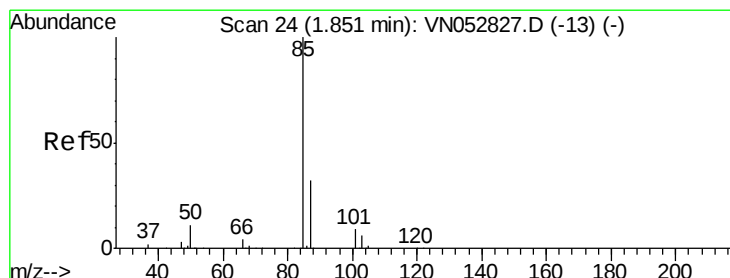
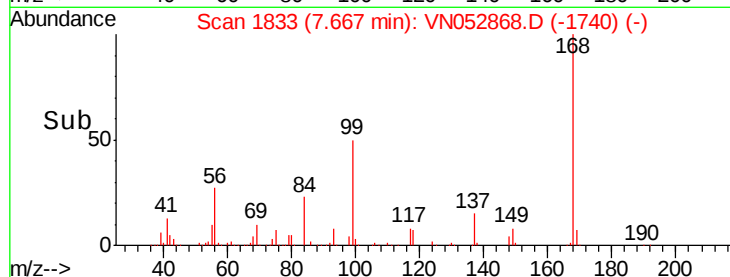
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.410 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052868.D

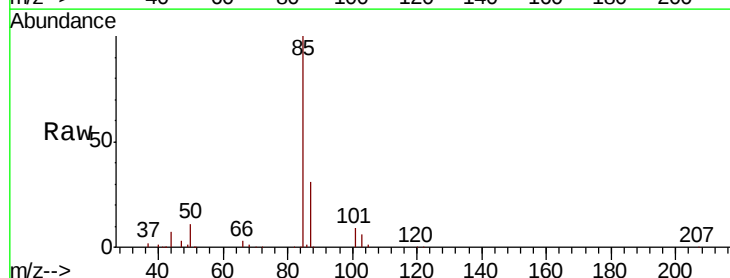
Acq: 13 Dec 2018 16:54

Tgt Ion: 85 Resp: 212848

Ion Ratio Lower Upper

85 100

87 31.4 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

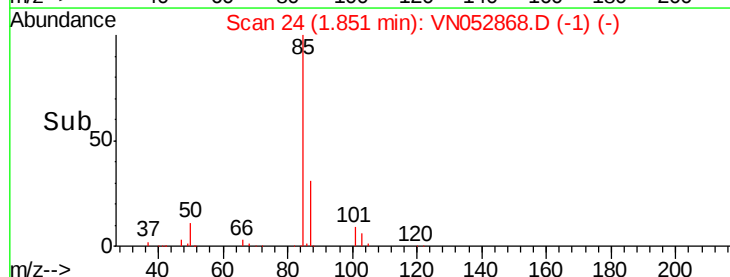
150000

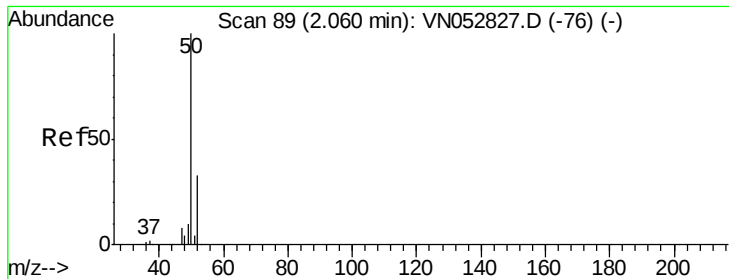
100000

50000

0

Time-->





#3

Chloromethane

Concen: 19.660 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

VN1213WBSD01

Tot Ion: 50 Resp: 258743

Ion Ratio Lower Upper

50 100

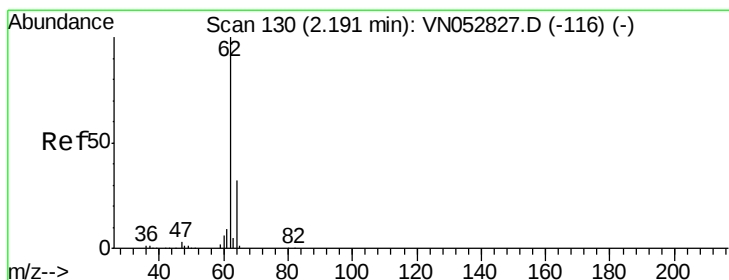
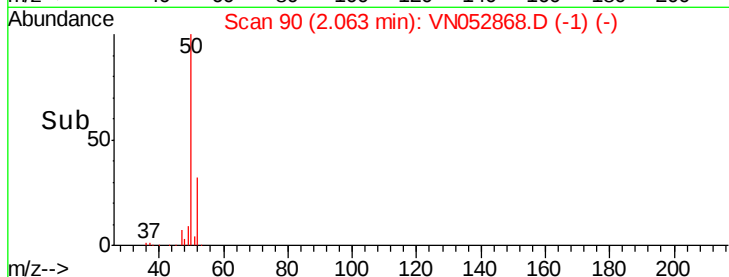
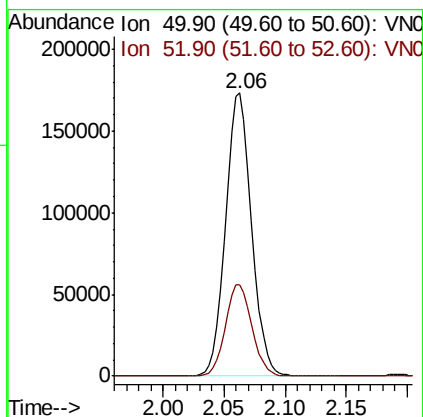
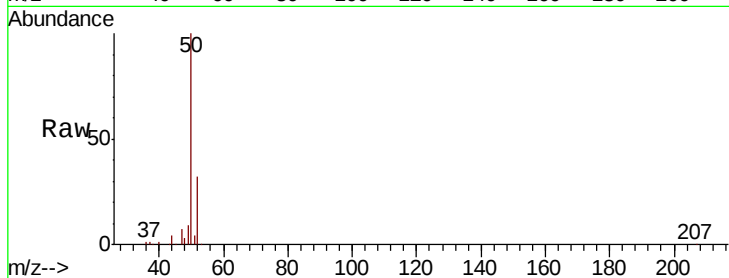
52 32.1 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:03:16 AM



#4

Vinyl Chloride

Concen: 19.824 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052868.D

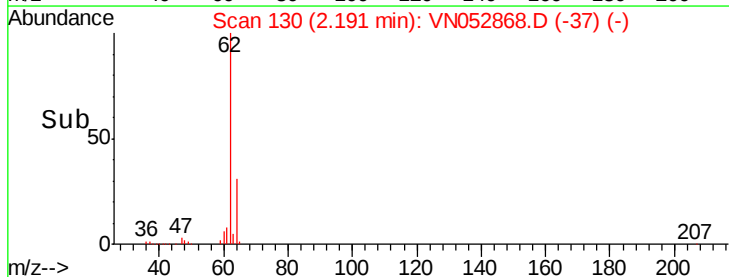
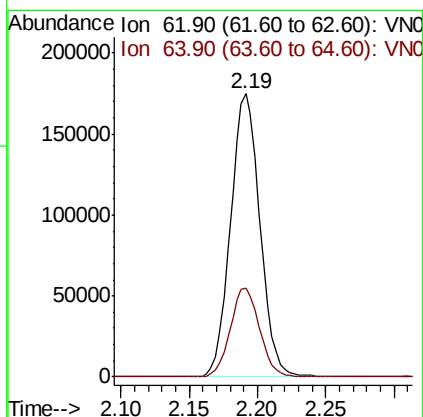
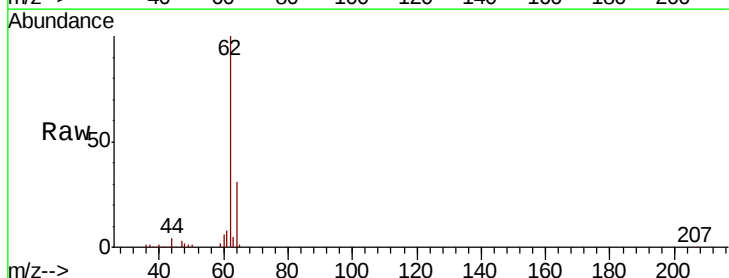
Acq: 13 Dec 2018 16:54

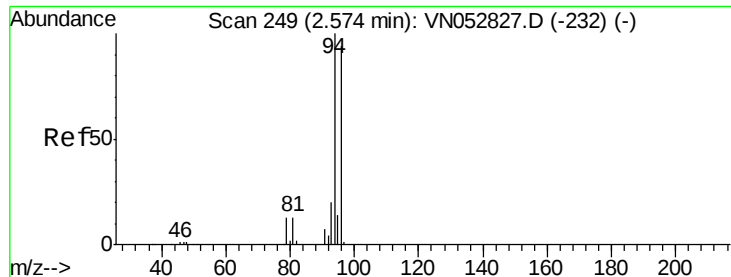
Tgt Ion: 62 Resp: 261019

Ion Ratio Lower Upper

62 100

64 31.5 25.5 38.3





#5

Bromomethane

Concen: 19.786 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

VN1213WBSD01

Tot Ion: 94 Resp: 160686

Ion Ratio Lower Upper

94 100

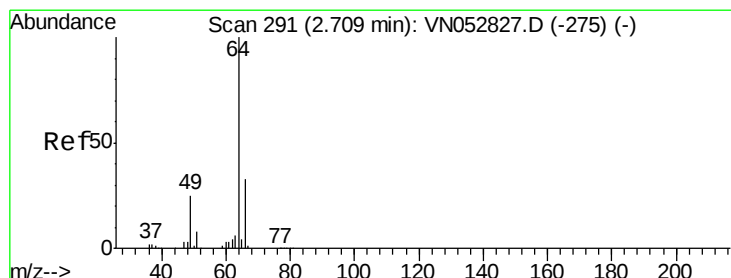
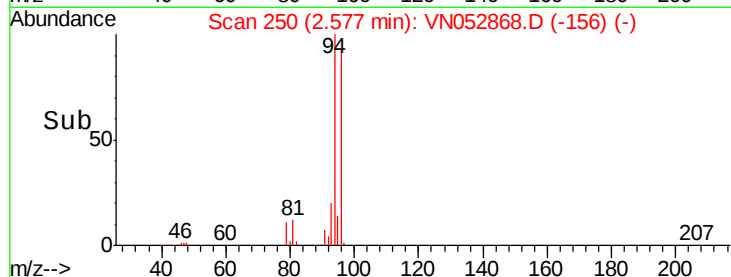
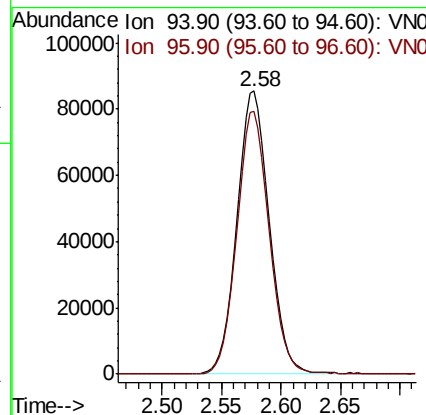
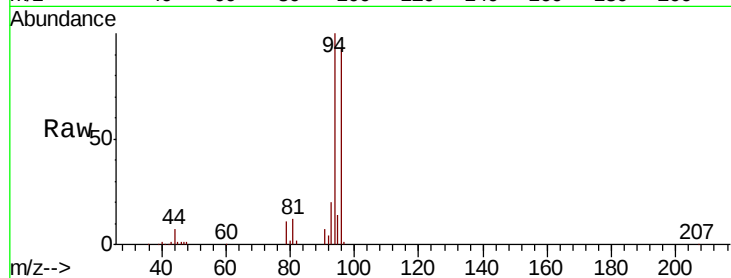
96 92.8 75.0 112.4

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:03:16 AM



#6

Chloroethane

Concen: 19.774 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052868.D

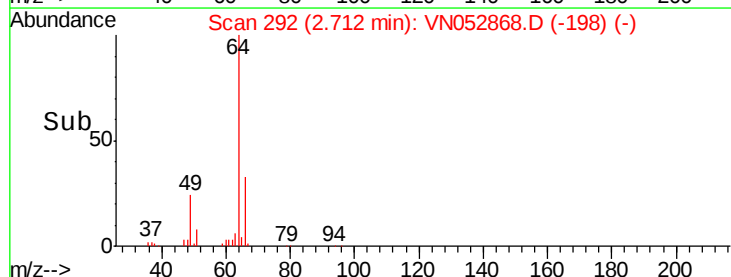
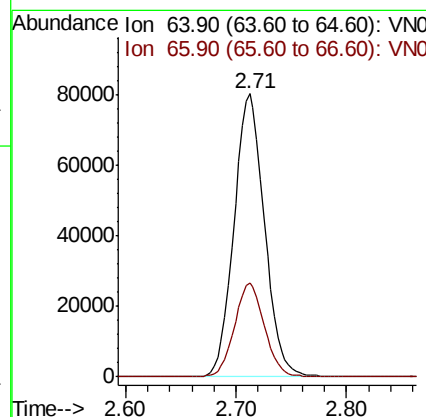
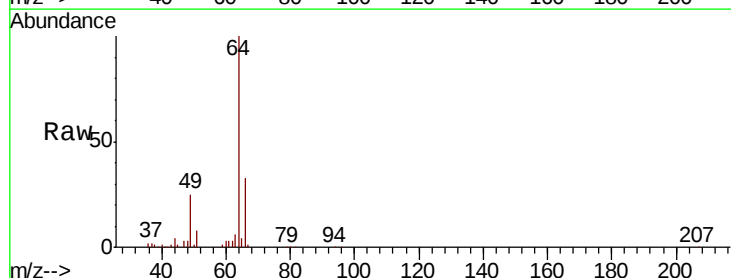
Acq: 13 Dec 2018 16:54

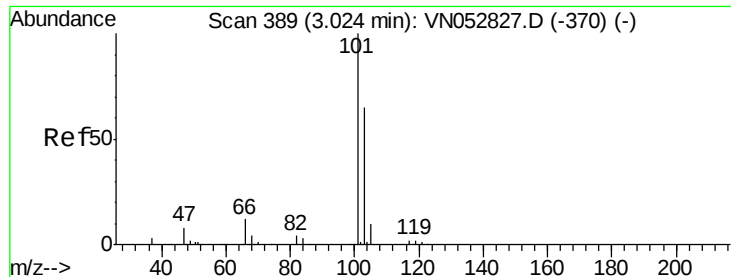
Tgt Ion: 64 Resp: 153900

Ion Ratio Lower Upper

64 100

66 33.4 26.2 39.2





#7

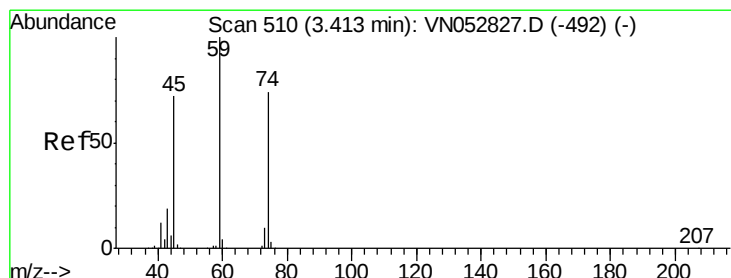
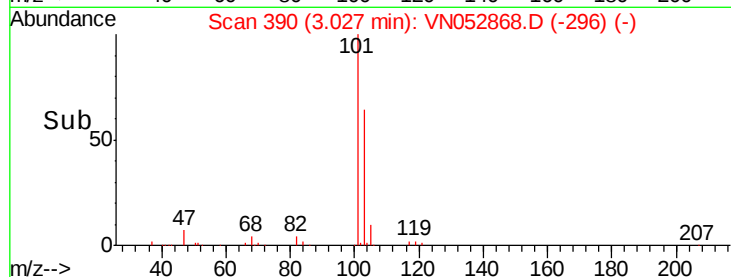
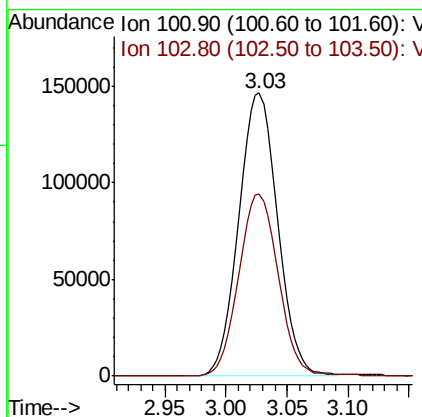
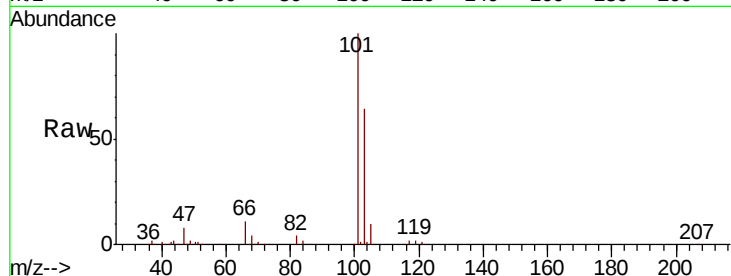
Trichlorofluoromethane
 Concen: 19.839 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.8	77.6

Manual Integrations
 APPROVED

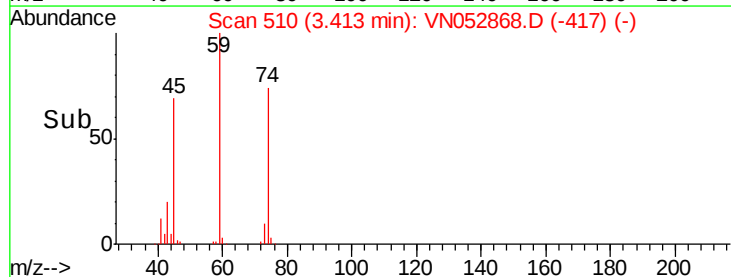
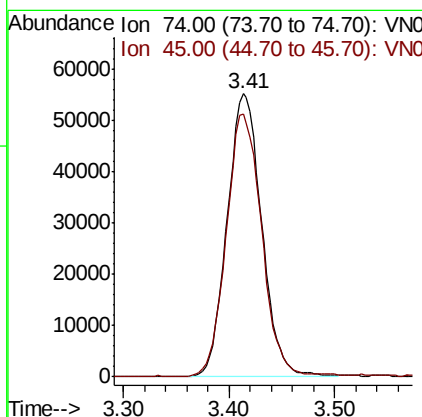
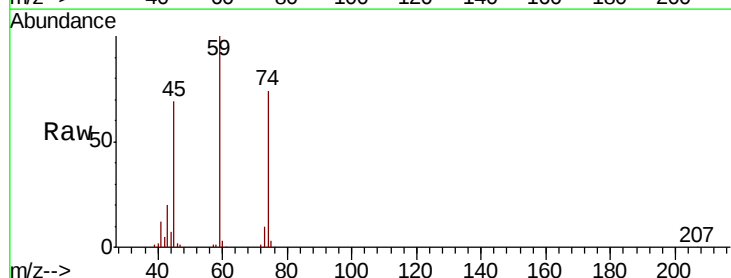
MMDadoda
 12/14/2018 9:03:16 AM

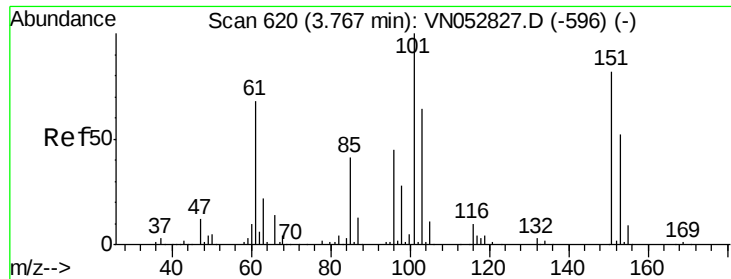


#8

Diethyl Ether
 Concen: 21.069 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.9	49.4	148.0





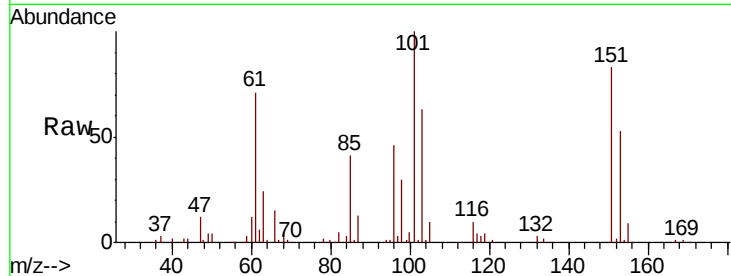
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.542 ug/l
 RT: 3.77 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	197713		
85	41.9		33.6	50.4
151	84.2		65.5	98.3

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 9:03:16 AM

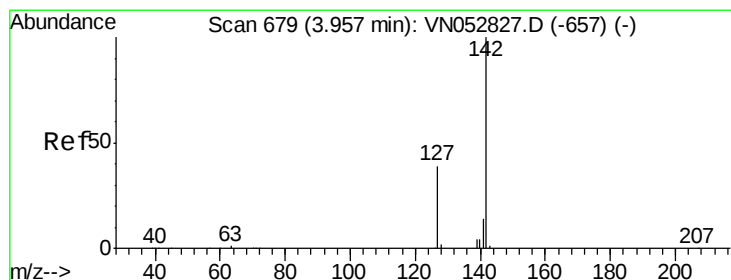
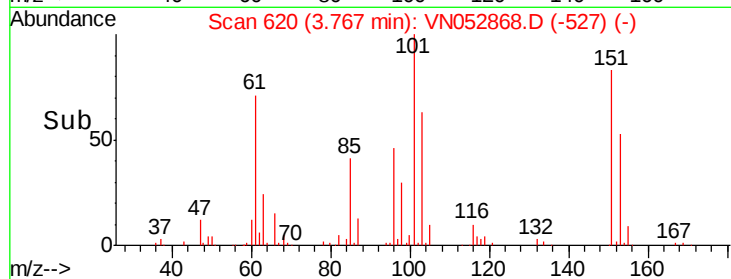
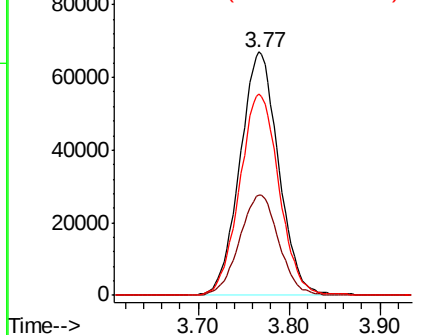


Abundance

Ion 100.90 (100.60 to 101.60): V

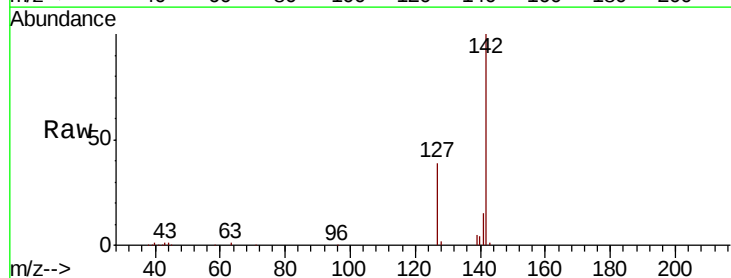
Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10
 Methyl Iodide
 Concen: 19.467 ug/l
 RT: 3.96 min Scan# 679
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	275811		
127	38.8		31.0	46.6
141	14.3		11.2	16.8

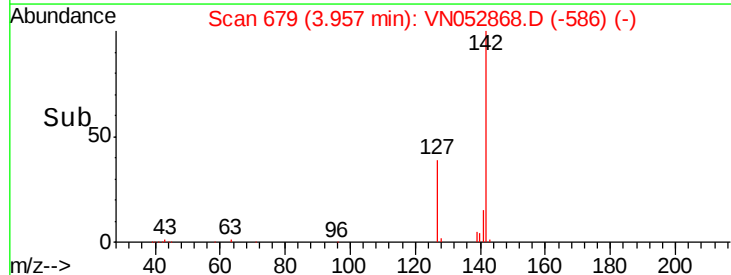
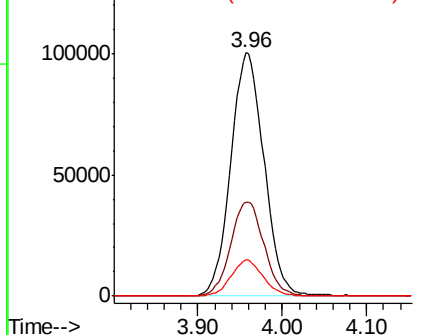


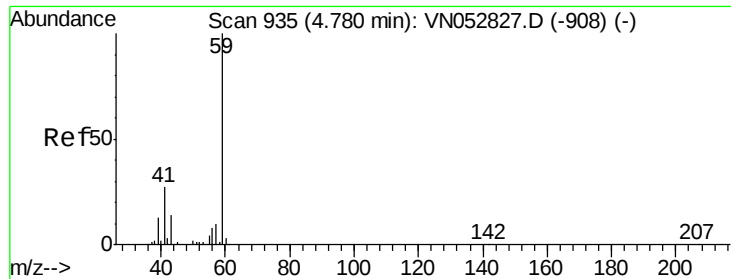
Abundance

Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





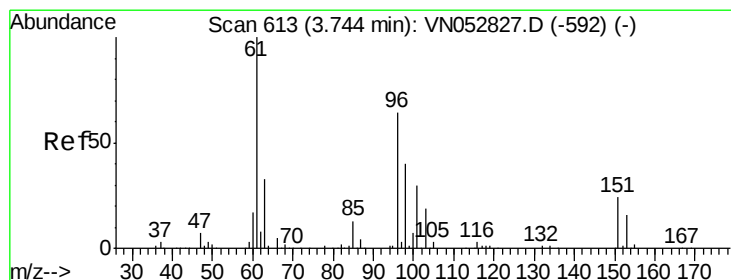
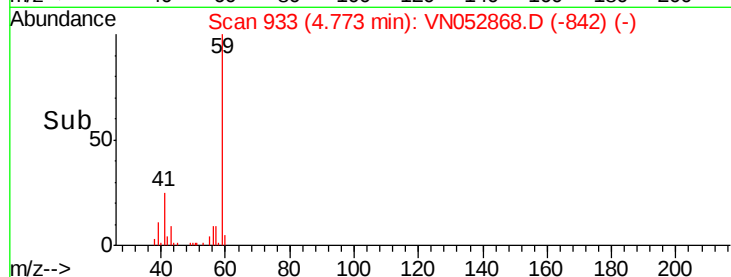
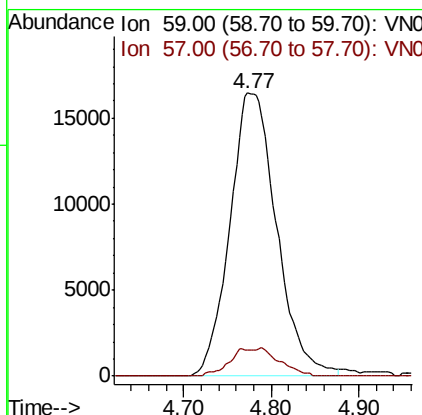
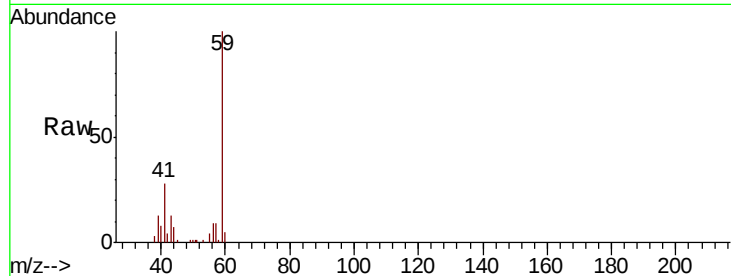
#11
Tert butyl alcohol
Concen: 96.236 ug/l
RT: 4.77 min Scan# 933
Delta R.T. -0.01 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion: 59 Resp: 60906
Ion Ratio Lower Upper
59 100
57 5.5 7.7 11.5#

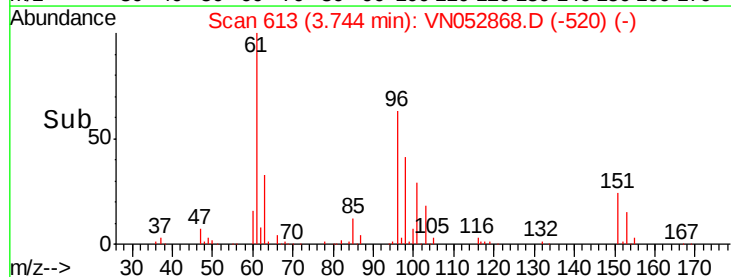
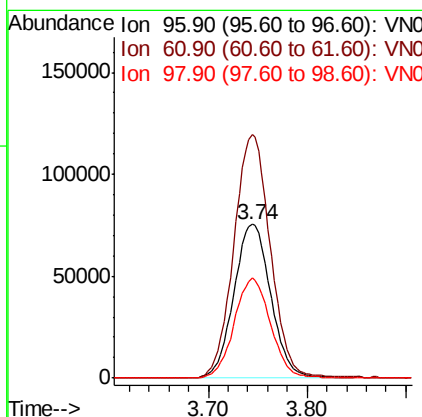
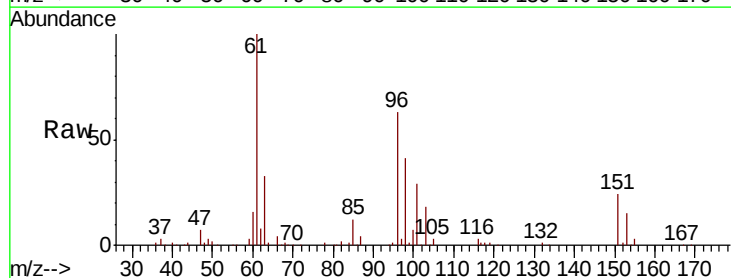
Manual Integrations
APPROVED

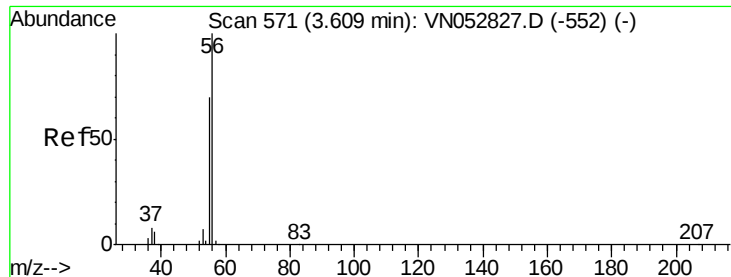
MMDadoda
12/14/2018 9:03:16 AM



#12
1,1-Dichloroethene
Concen: 20.043 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion: 96 Resp: 196294
Ion Ratio Lower Upper
96 100
61 158.2 125.6 188.4
98 64.8 50.6 75.8





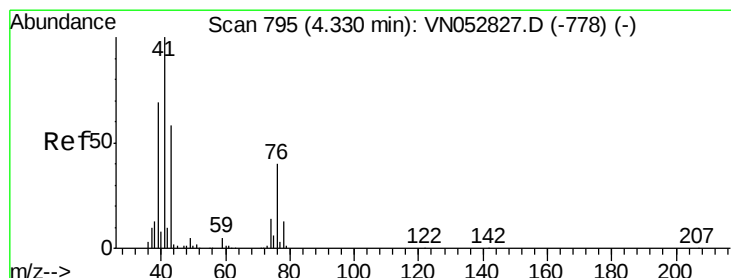
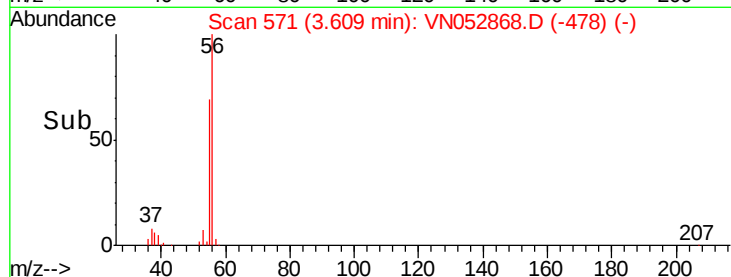
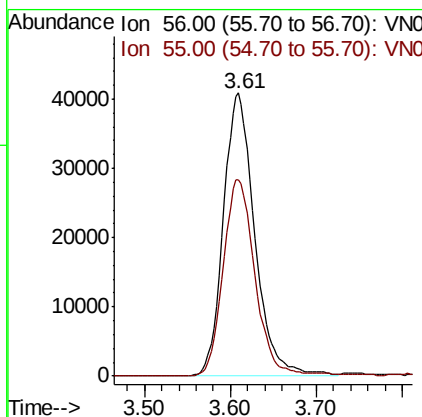
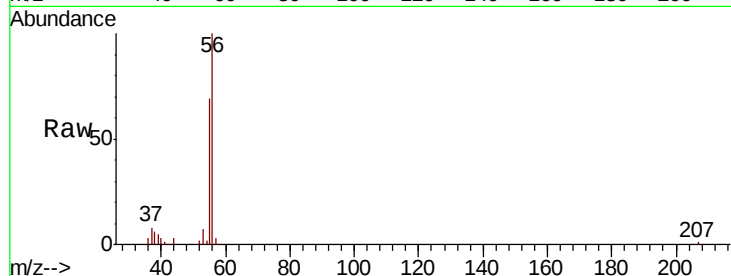
#13
Acrolein
Concen: 174.070 ug/l
RT: 3.61 min Scan# 571
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	56	Resp	103722
Ion Ratio	Lower	Upper	
56	100		
55	70.1	56.6	85.0

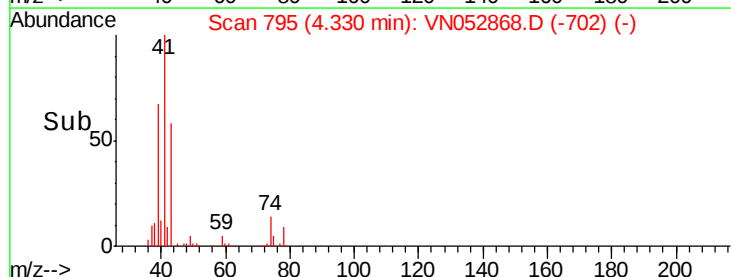
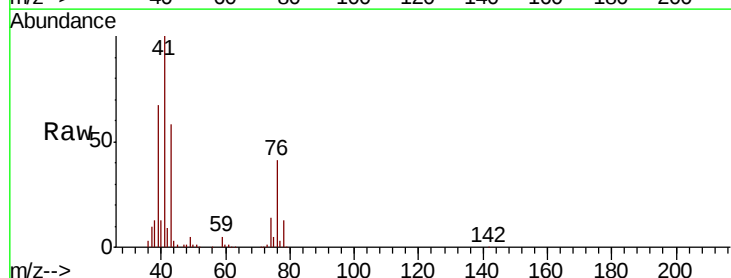
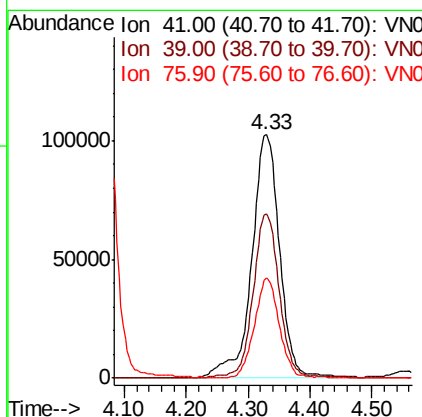
Manual Integrations
APPROVED

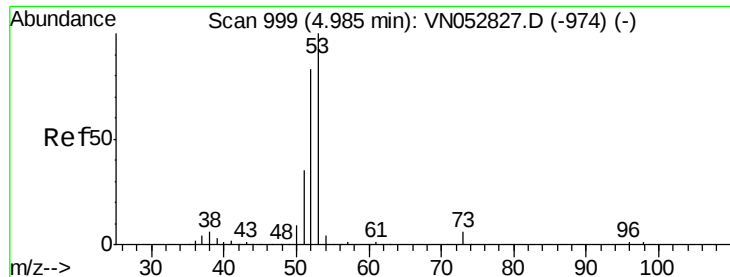
MMDadoda
12/14/2018 9:03:16 AM



#14
Allyl chloride
Concen: 20.144 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	41	Resp	322234
Ion Ratio	Lower	Upper	
41	100		
39	62.8	54.1	81.1
76	35.6	30.3	45.5





#15

Acrylonitrile

Concen: 99.588 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

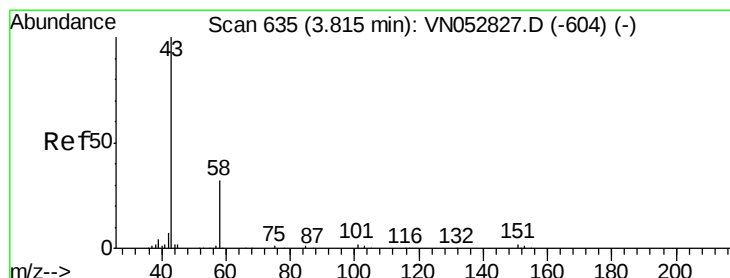
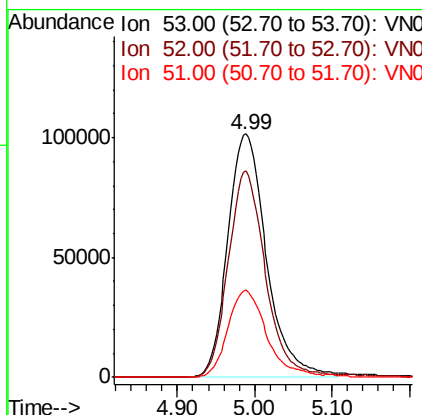
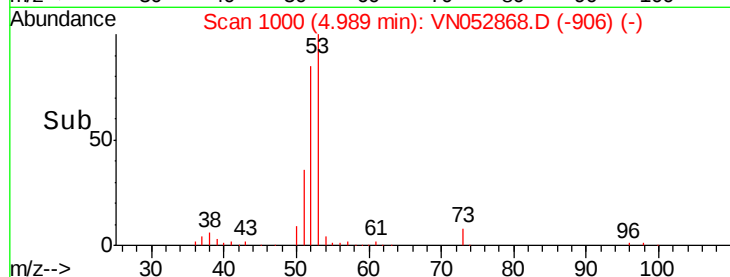
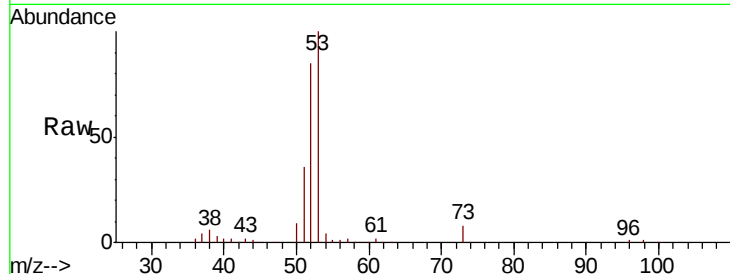
ClientSampleId :

VN1213WBSD01

Tot Ion:	53	Resp:	353592
Ion Ratio	Lower	Upper	
53	100		
52	81.6	65.1	97.7
51	35.9	28.1	42.1

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM



#16

Acetone

Concen: 89.169 ug/l

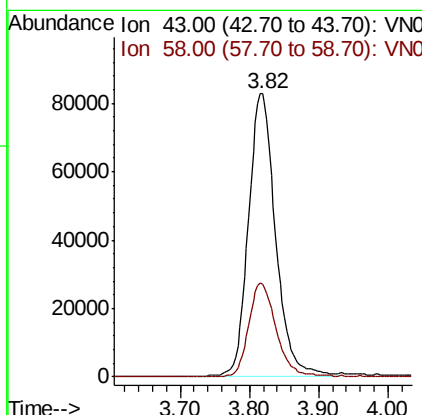
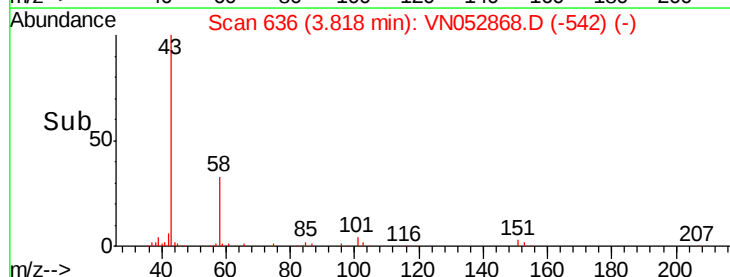
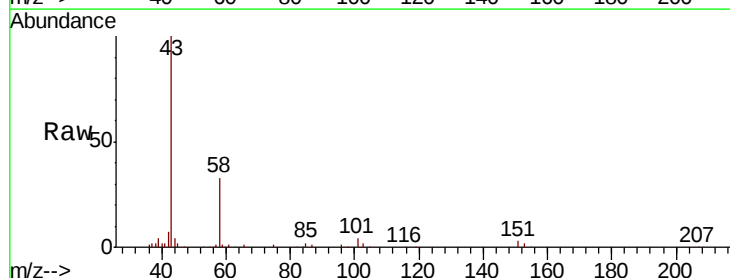
RT: 3.82 min Scan# 636

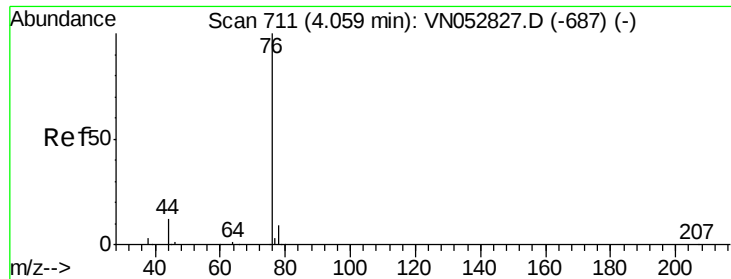
Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Tgt Ion:	43	Resp:	226835
Ion Ratio	Lower	Upper	
43	100		
58	32.8	25.4	38.0





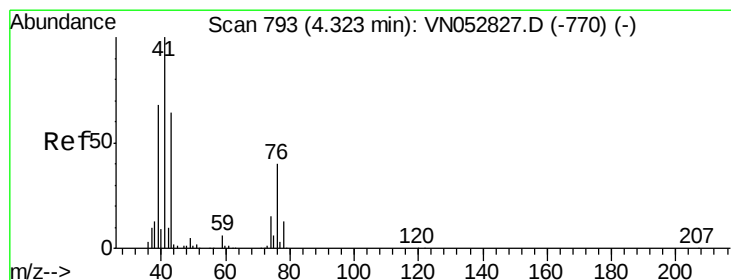
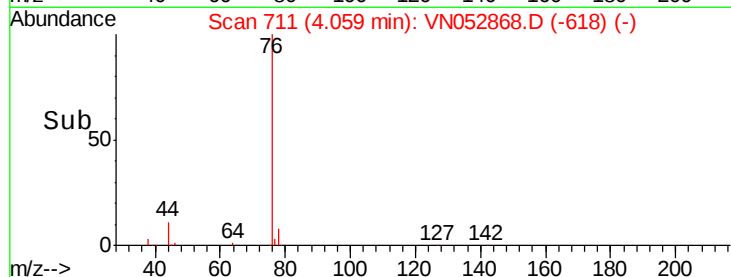
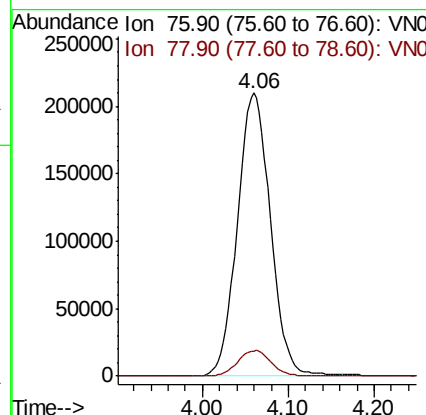
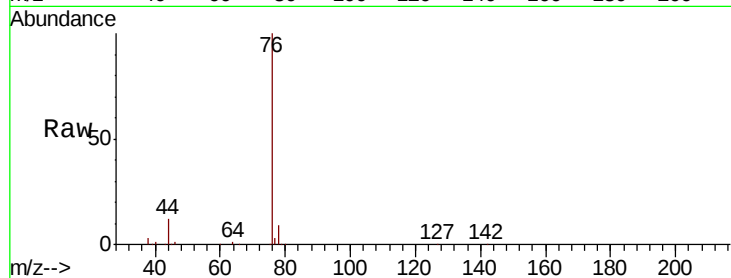
#17
Carbon Disulfide
Concen: 18.636 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion: 76 Resp: 560683
Ion Ratio Lower Upper
76 100
78 9.0 7.1 10.7

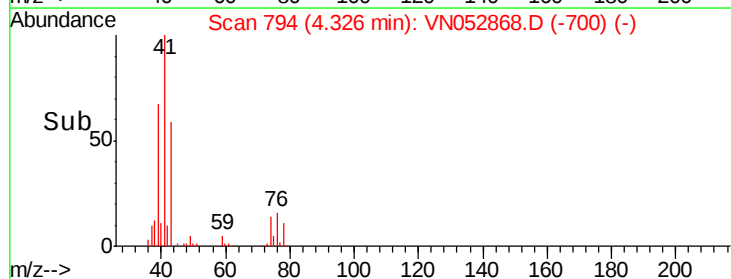
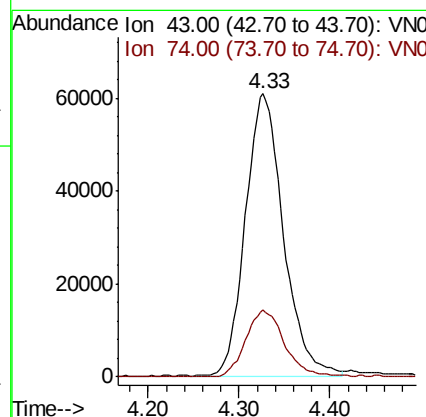
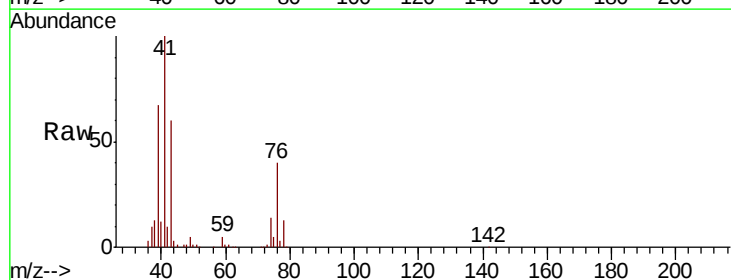
Manual Integrations
APPROVED

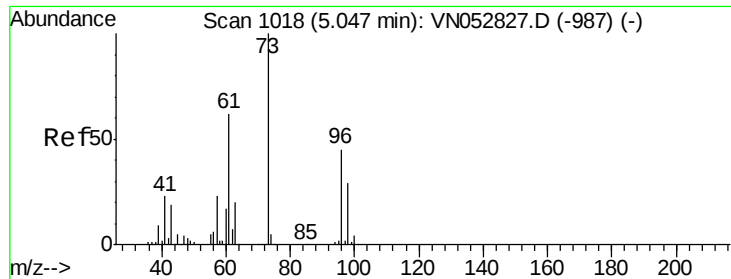
MMDadoda
12/14/2018 9:03:16 AM



#18
Methyl Acetate
Concen: 18.846 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion: 43 Resp: 175950
Ion Ratio Lower Upper
43 100
74 24.1 19.2 28.8





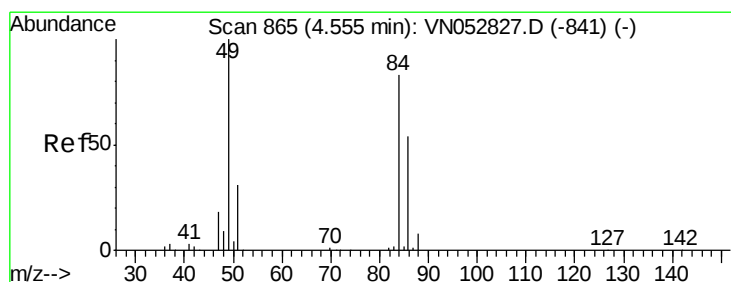
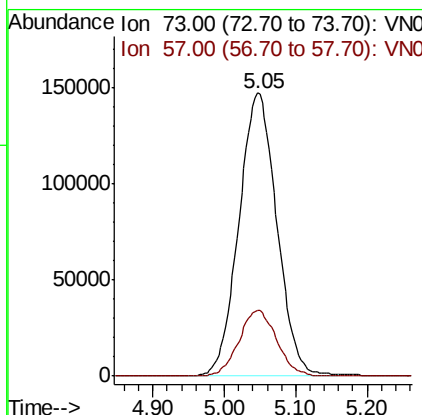
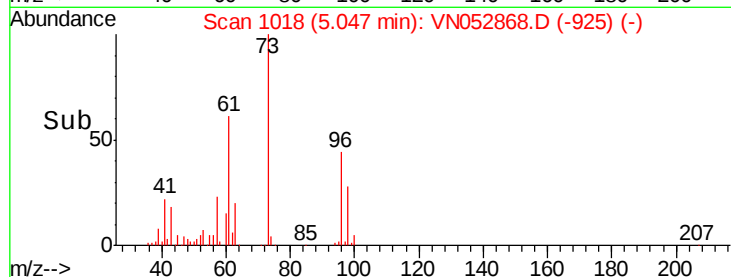
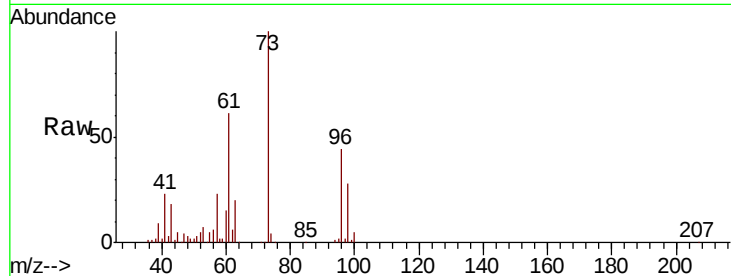
#19
Methvl tert-butvl Ether
Concen: 20.492 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion: 73 Resp: 544850
Ion Ratio Lower Upper
73 100
57 23.3 18.4 27.6

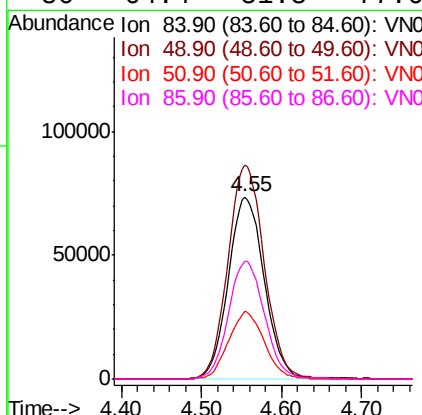
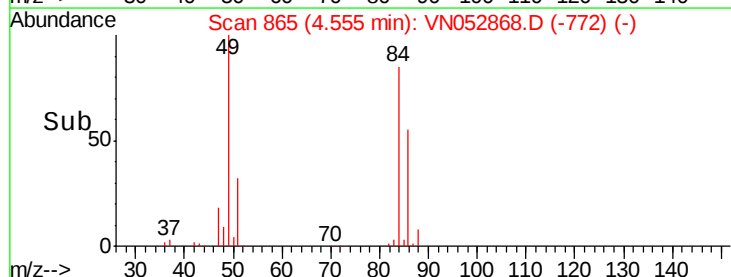
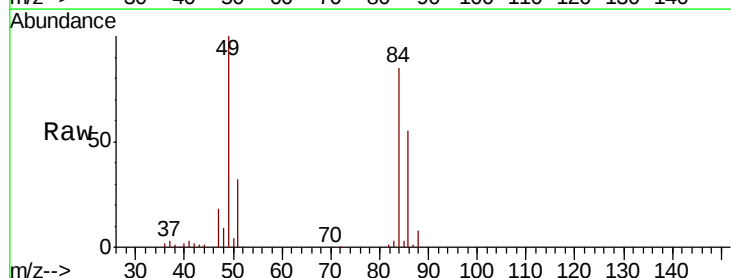
Manual Integrations
APPROVED

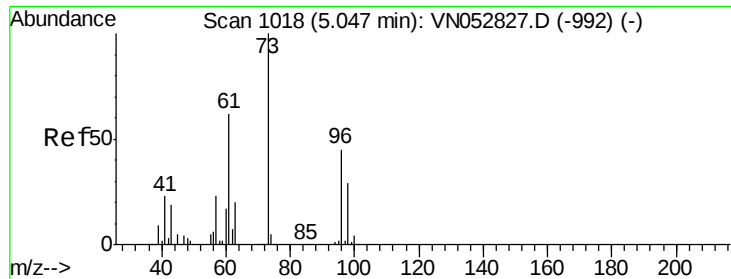
MMDadoda
12/14/2018 9:03:16 AM



#20
Methylene Chloride
Concen: 19.649 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion: 84 Resp: 224942
Ion Ratio Lower Upper
84 100
49 116.9 96.8 145.2
51 36.9 29.9 44.9
86 64.4 51.8 77.6





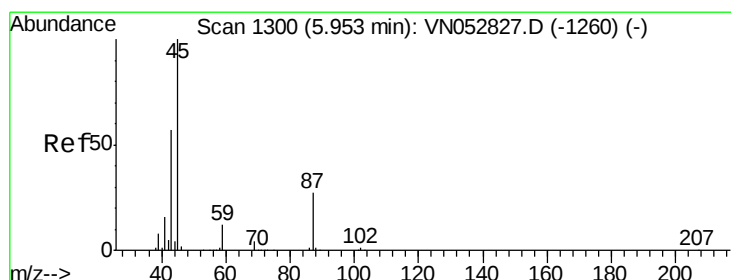
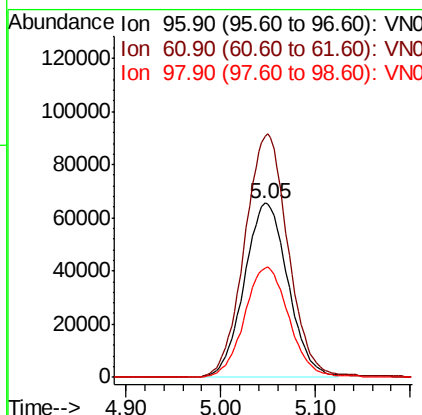
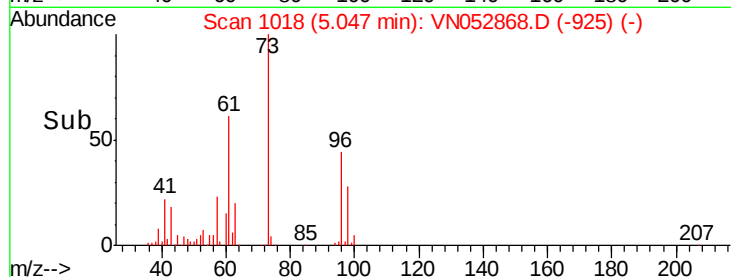
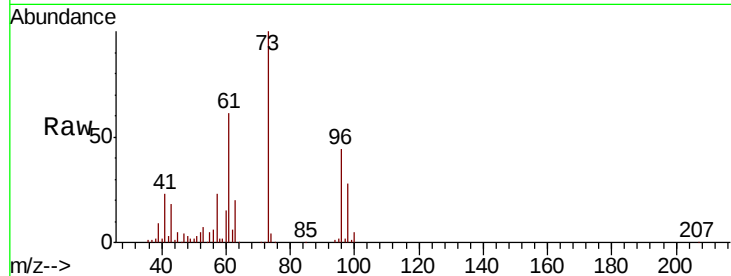
#21
trans-1,2-Dichloroethene
Concen: 19.860 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion: 96 Resp: 210732
Ion Ratio Lower Upper
96 100
61 138.4 110.8 166.2
98 62.8 51.4 77.2

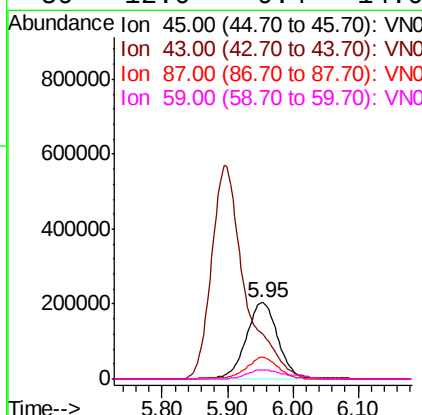
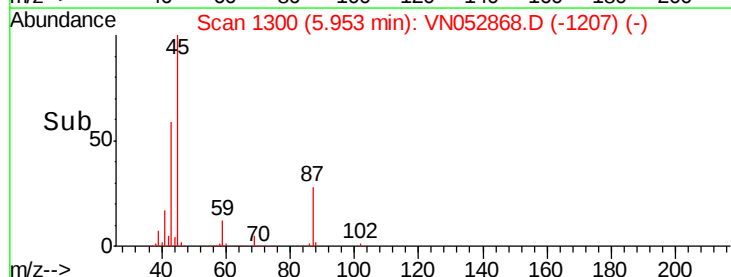
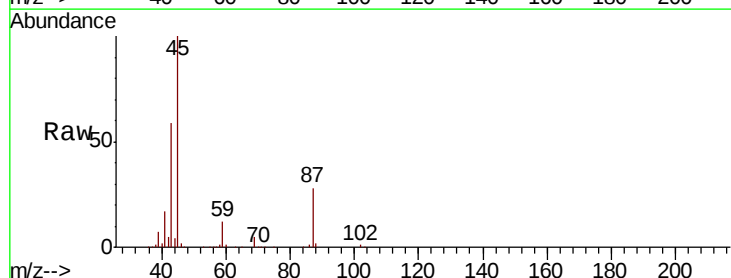
Manual Integrations
APPROVED

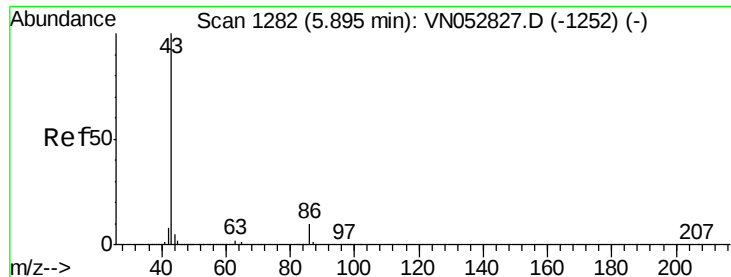
MMDadoda
12/14/2018 9:03:16 AM



#22
Diisopropyl ether
Concen: 20.303 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion: 45 Resp: 692879
Ion Ratio Lower Upper
45 100
43 58.0 45.5 68.3
87 28.4 22.0 33.0
59 12.0 9.4 14.0





#23

Vinyl Acetate

Concen: 100.212 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

VN1213WBSD01

Tot Ion: 43 Resp: 2034988

Ion Ratio Lower Upper

43 100

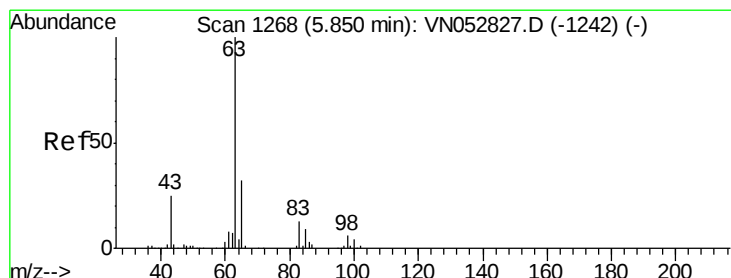
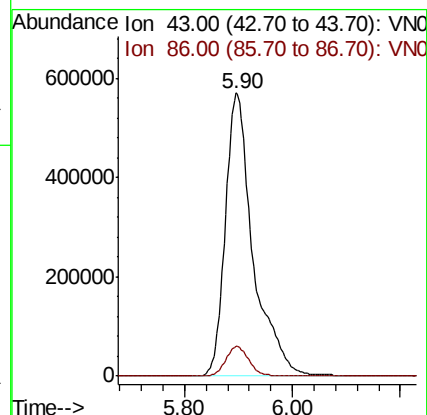
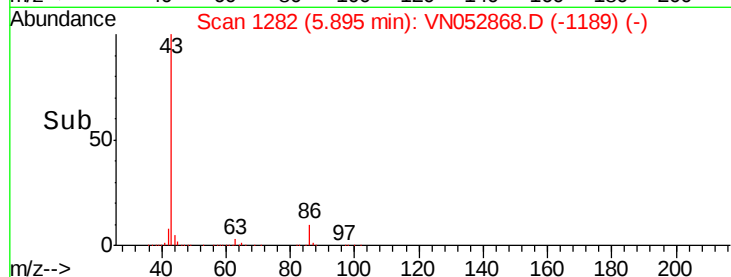
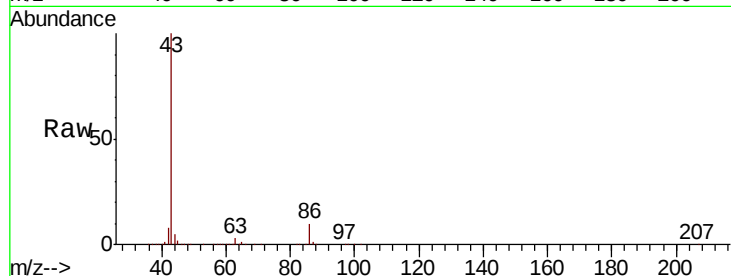
86 10.5 8.1 12.1

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:03:16 AM



#24

1,1-Dichloroethane

Concen: 20.117 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

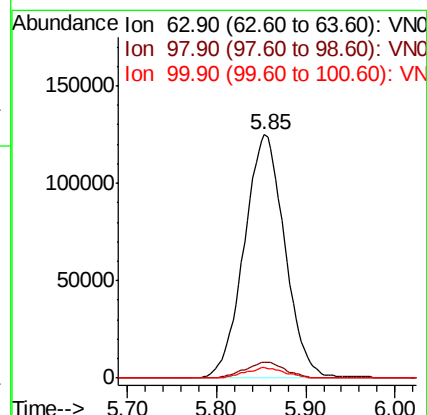
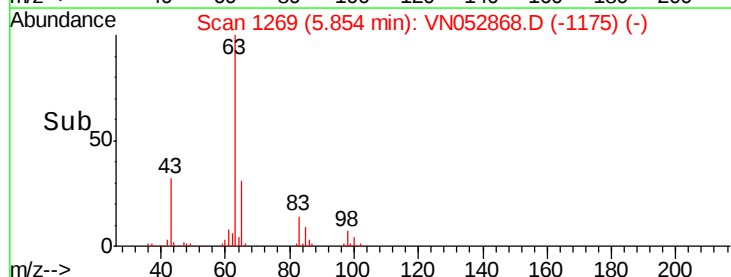
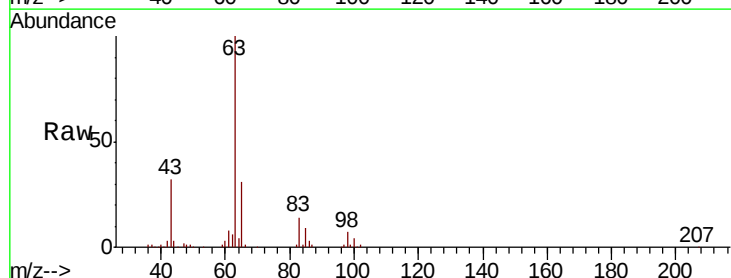
Tgt Ion: 63 Resp: 395915

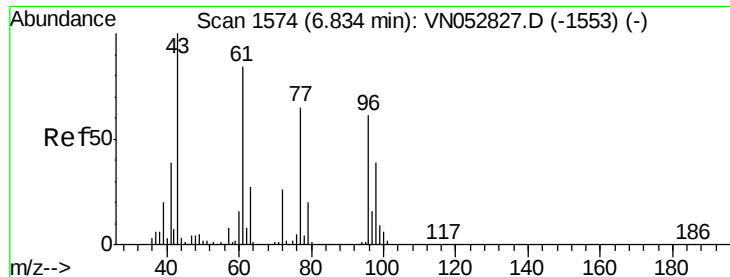
Ion Ratio Lower Upper

63 100

98 6.7 3.1 9.4

100 4.2 2.0 5.8





#25

2-Butanone

Concen: 95.217 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

VN1213WBSD01

Tot Ion: 43 Resp: 375844

Ion Ratio Lower Upper

43 100

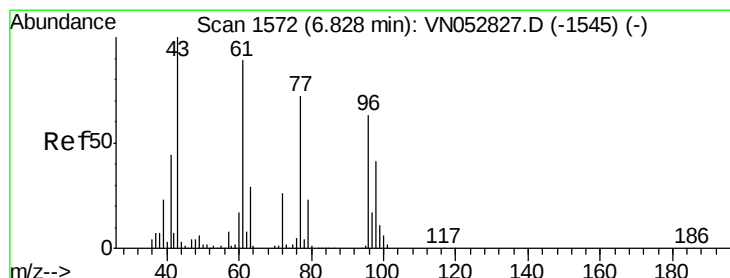
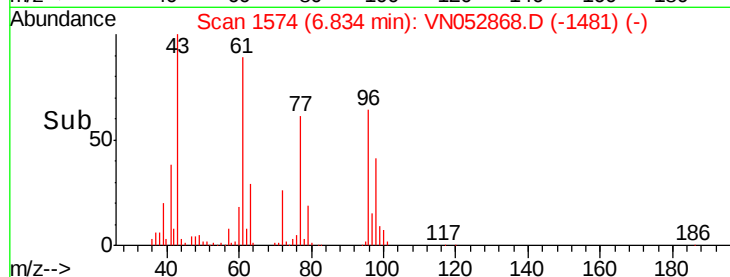
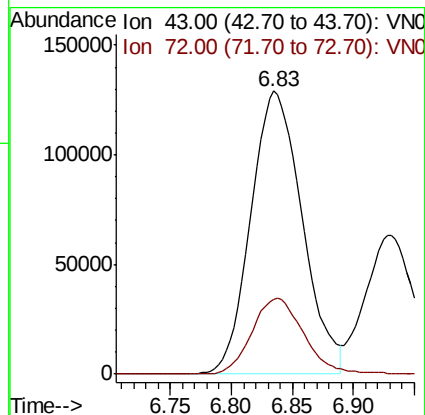
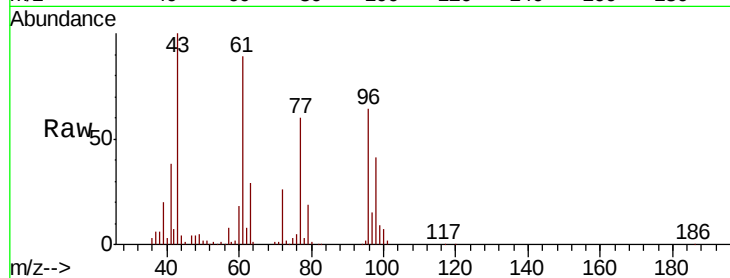
72 26.3 21.0 31.6

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:03:16 AM



#26

2,2-Dichloropropane

Concen: 17.899 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN052868.D

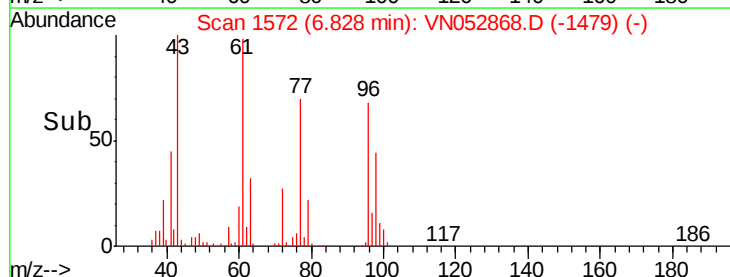
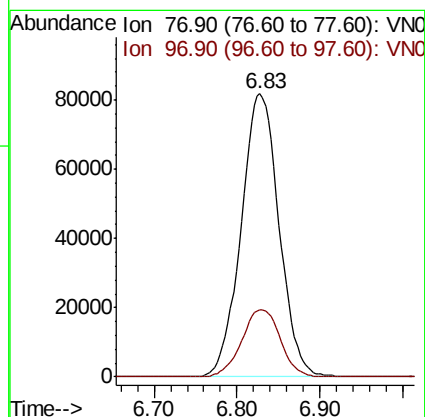
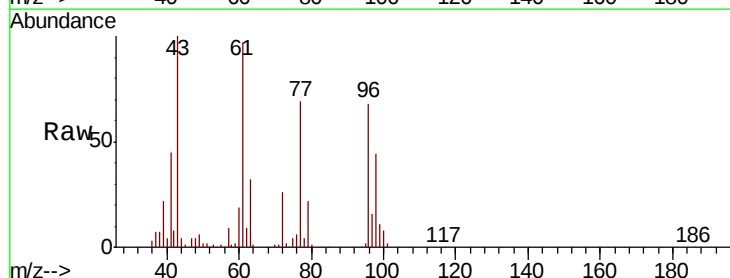
Acq: 13 Dec 2018 16:54

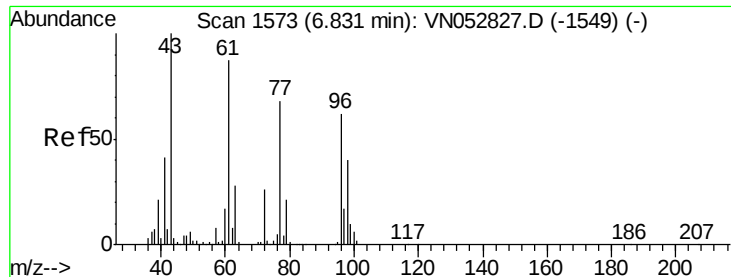
Tgt Ion: 77 Resp: 259406

Ion Ratio Lower Upper

77 100

97 24.3 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 20.216 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

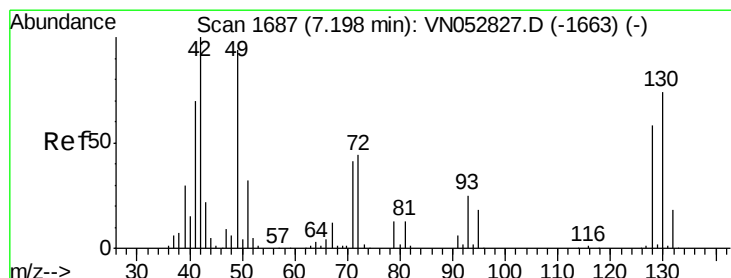
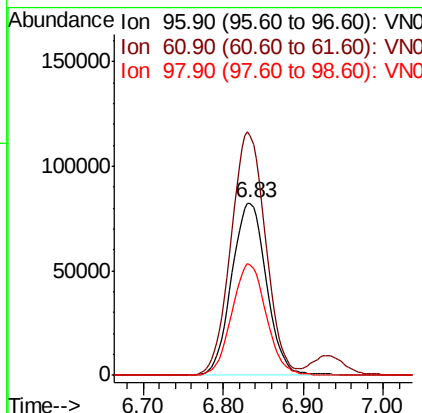
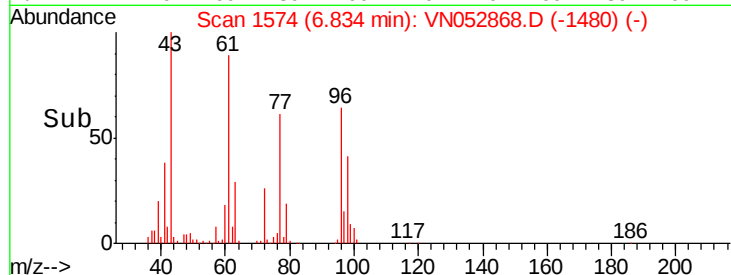
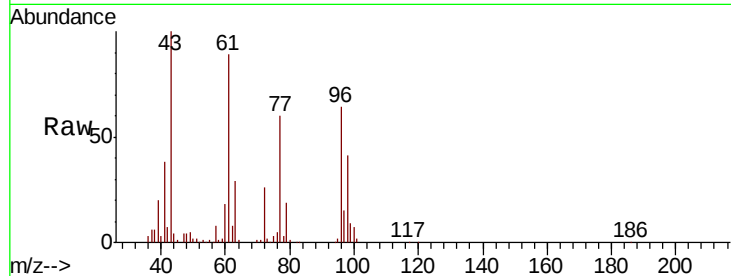
ClientSampleId :

VN1213WBSD01

Tot Ion:	96	Resp:	243453
Ion Ratio	Lower	Upper	
96	100		
61	140.1	0.0	284.2
98	63.9	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM



#28

Bromochloromethane

Concen: 19.923 ug/l

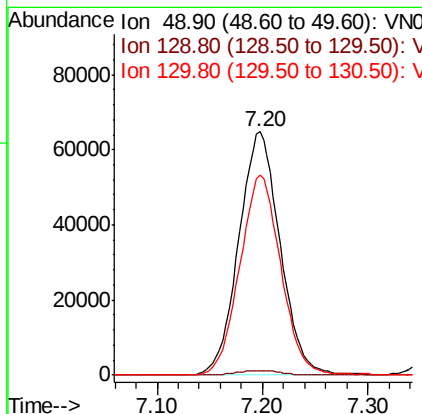
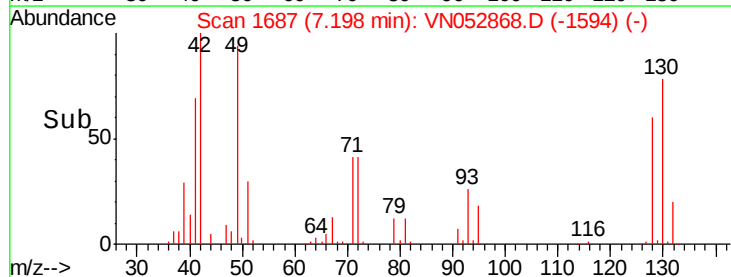
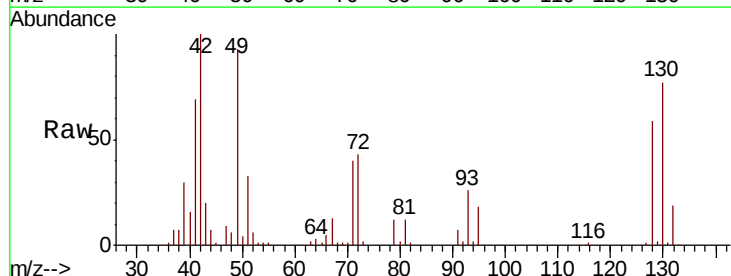
RT: 7.20 min Scan# 1687

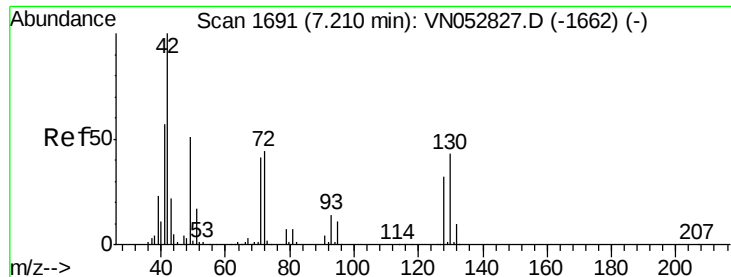
Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Tgt Ion:	49	Resp:	176062
Ion Ratio	Lower	Upper	
49	100		
129	1.9	0.0	4.0
130	81.9	63.3	94.9





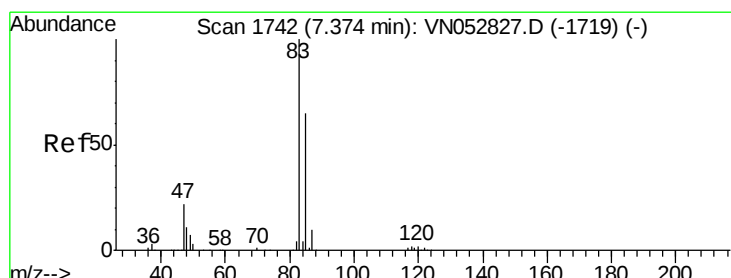
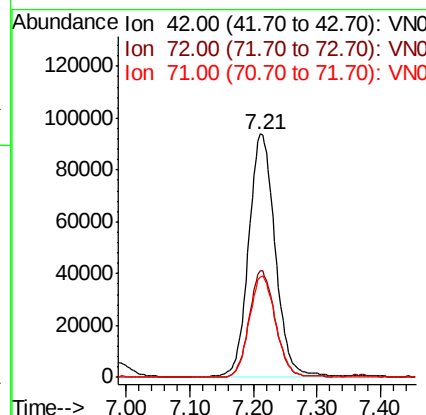
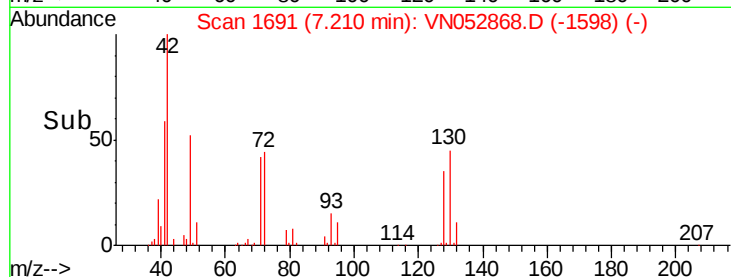
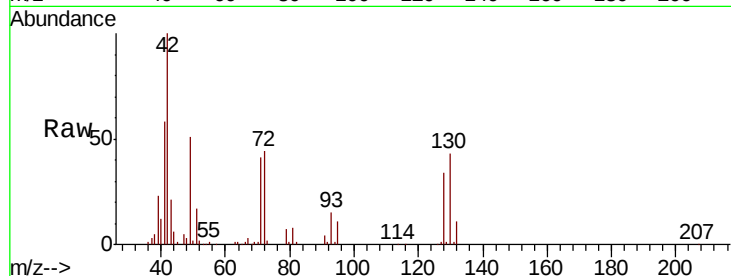
#29
Tetrahydrofuran
Concen: 101.690 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.7	52.1
71	41.3	32.3	48.5

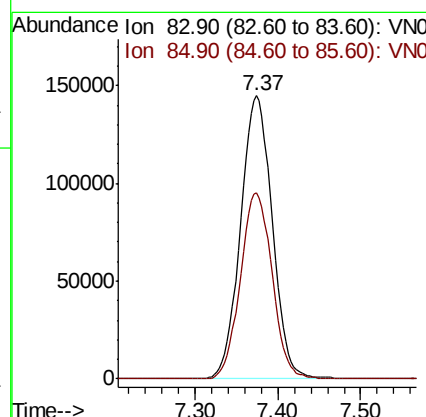
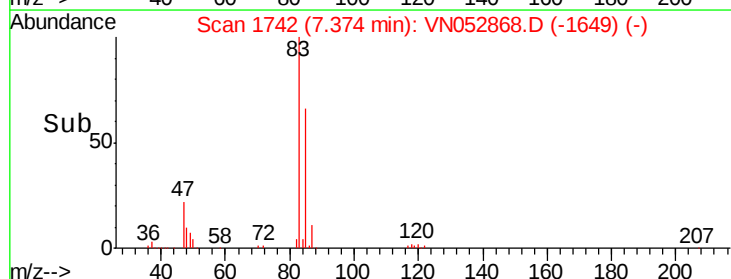
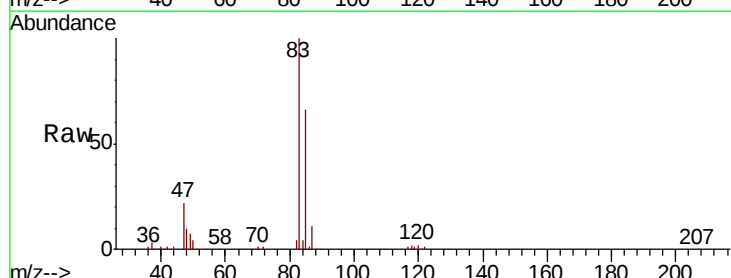
Manual Integrations
APPROVED

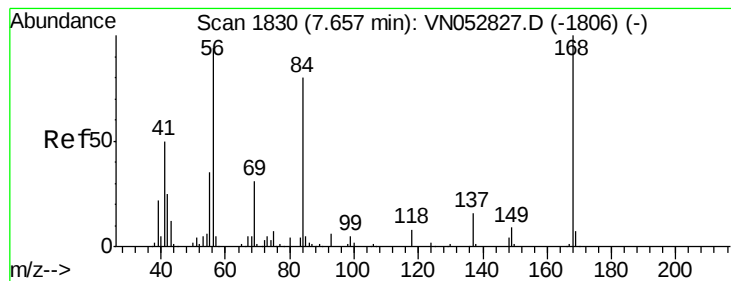
MMDadoda
12/14/2018 9:03:16 AM



#30
Chloroform
Concen: 20.072 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.1	78.1





#31

Cyclohexane

Concen: 19.449 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

VN1213WBSD01

Tot Ion: 56 Resp: 380099

Ion Ratio Lower Upper

56 100

69 37.2 26.6 39.8

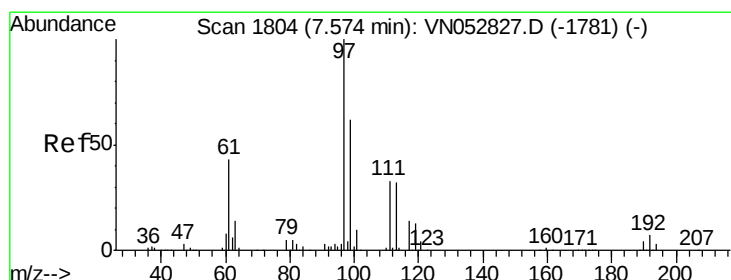
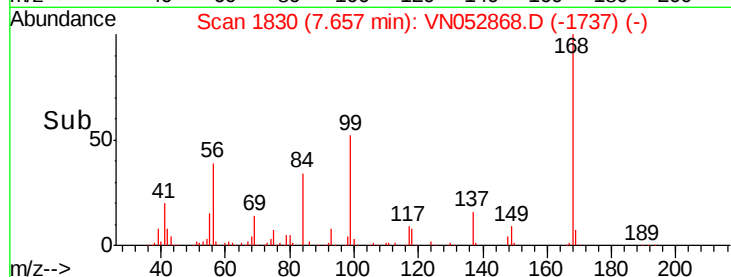
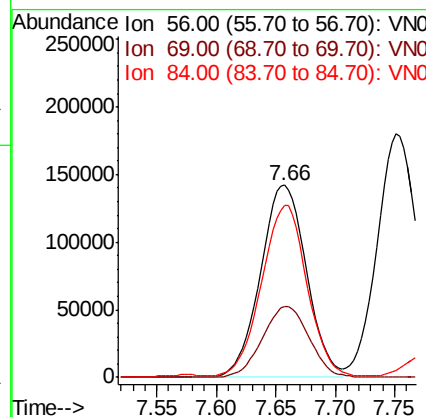
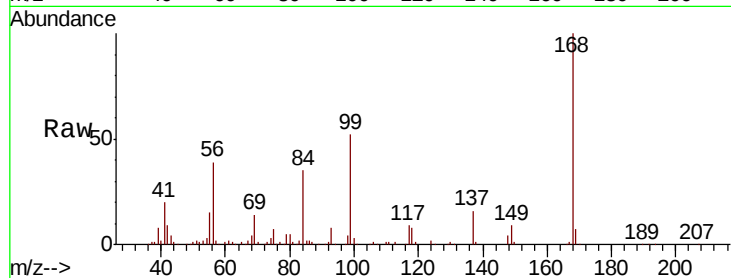
84 88.6 68.4 102.6

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:03:16 AM



#32

1,1,1-Trichloroethane

Concen: 19.803 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

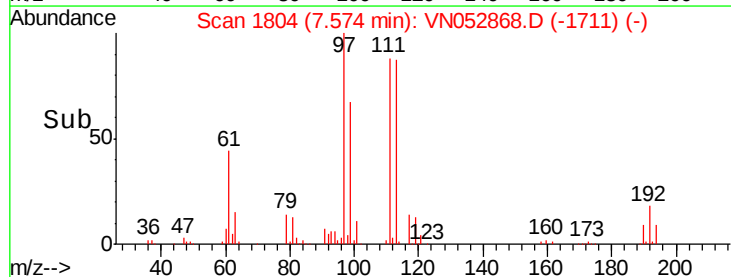
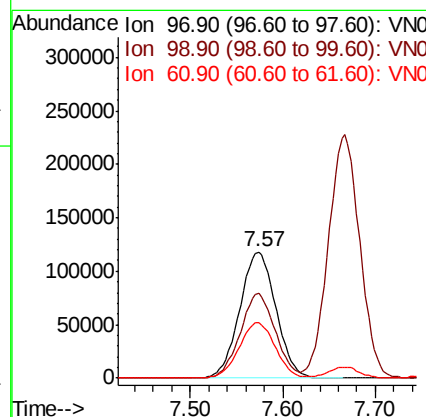
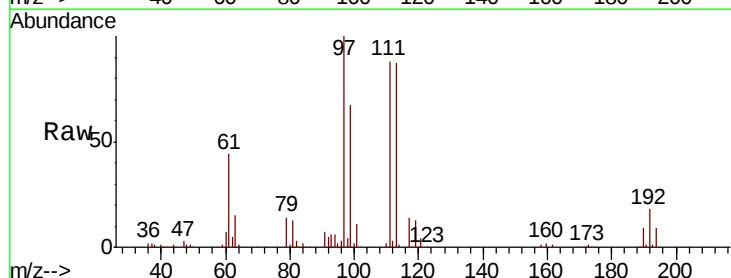
Tgt Ion: 97 Resp: 317973

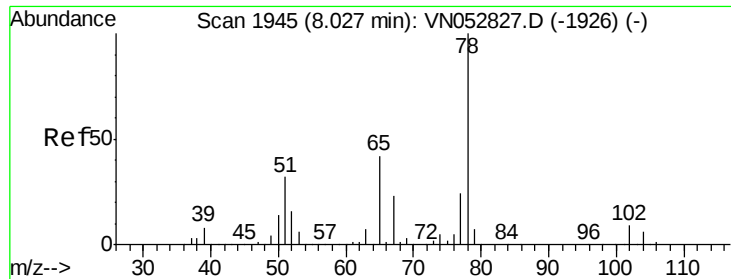
Ion Ratio Lower Upper

97 100

99 65.1 51.1 76.7

61 44.2 35.0 52.6





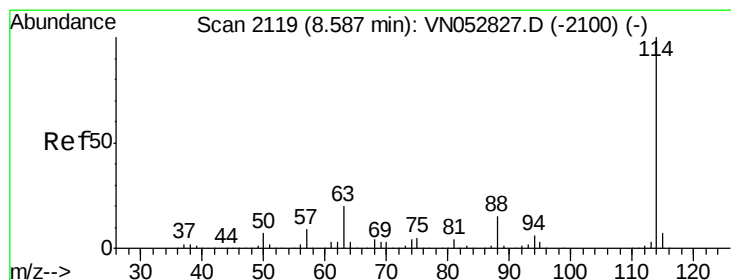
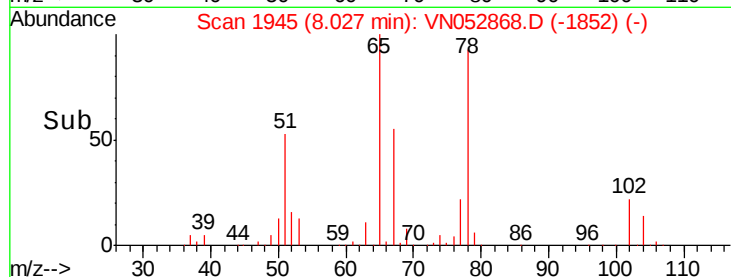
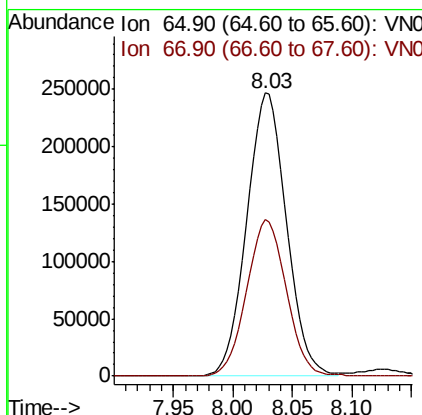
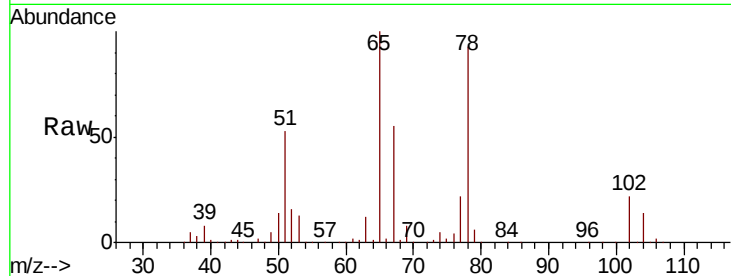
#33
 1,2-Dichloroethane-d4
 Concen: 19.803 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.2	0.0	110.4

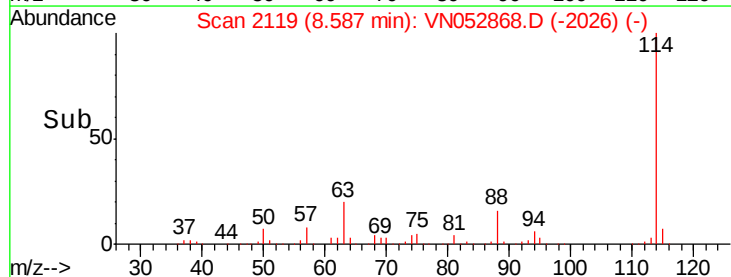
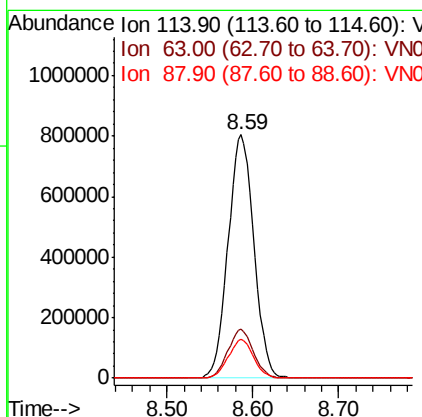
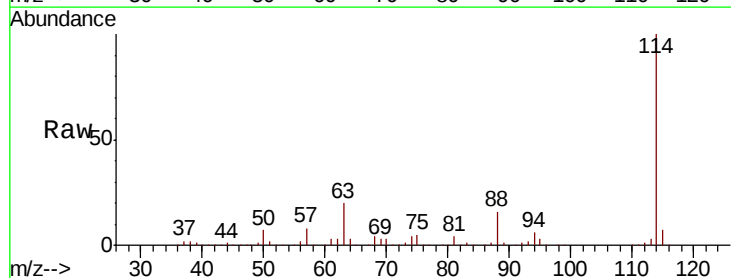
Manual Integrations
 APPROVED

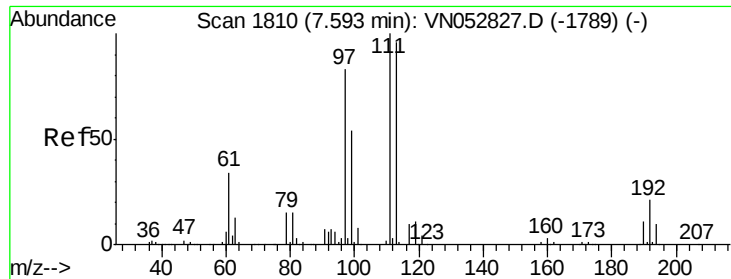
MMDadoda
 12/14/2018 9:03:16 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.8
88	15.7	0.0	31.0





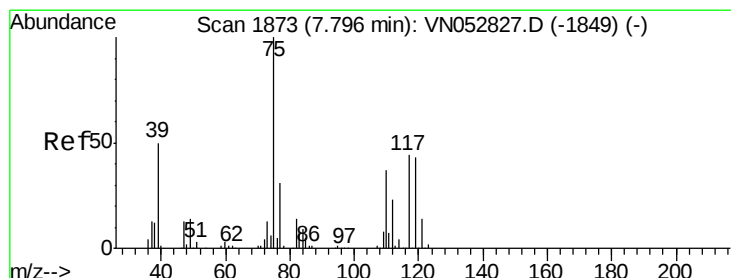
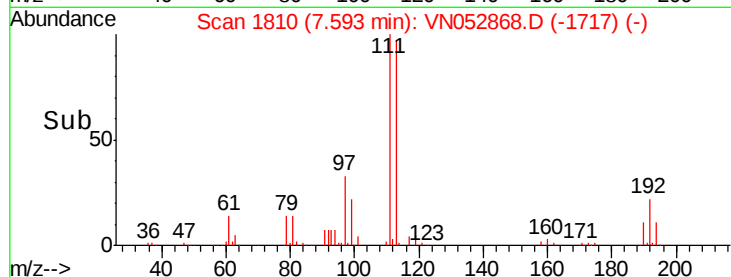
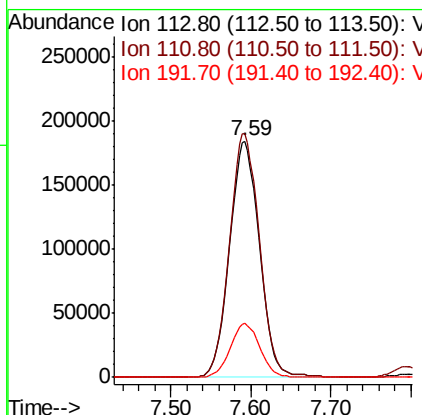
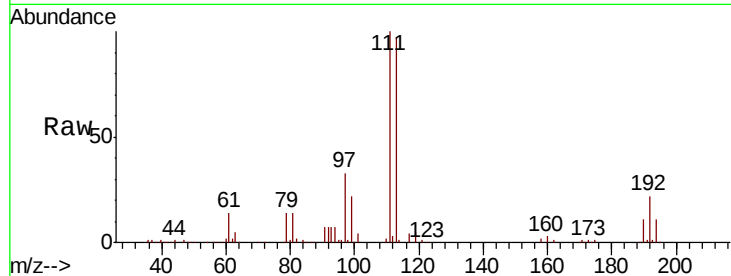
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	466179		
111	103.5	83.0	124.4	
192	22.5	17.5	26.3	

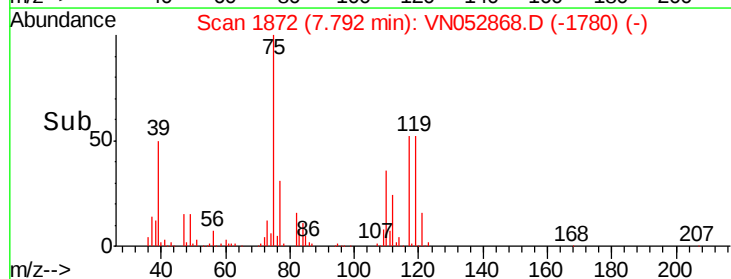
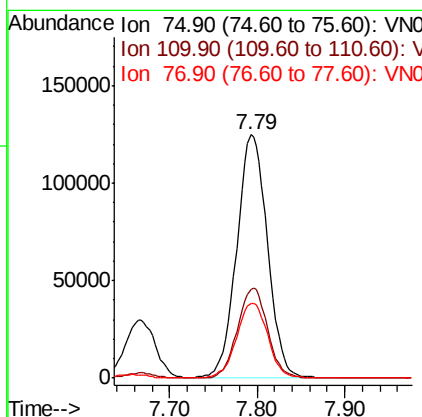
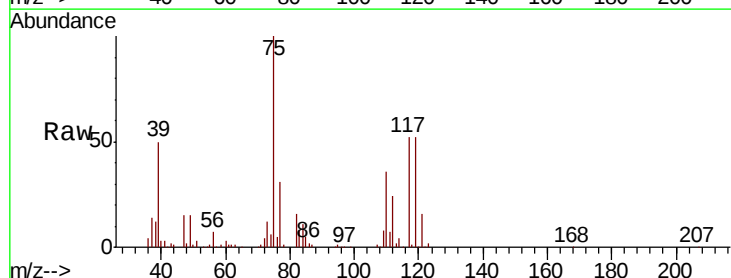
Manual Integrations
 APPROVED

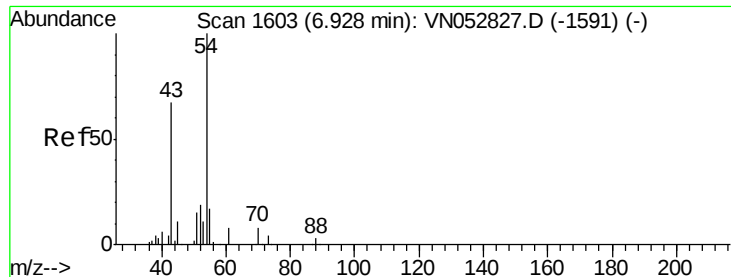
MMDadoda
 12/14/2018 9:03:16 AM



#36
 1,1-Dichloropropene
 Concen: 19.692 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	303156		
110	36.3	18.2	54.6	
77	31.6	24.9	37.3	





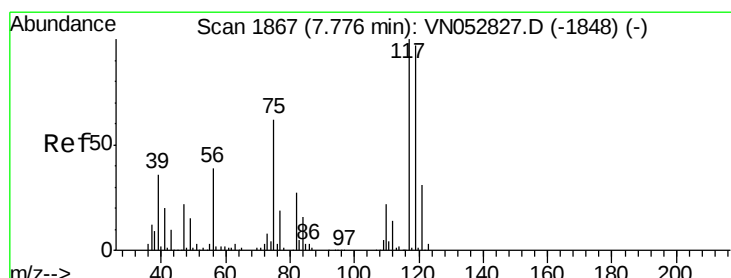
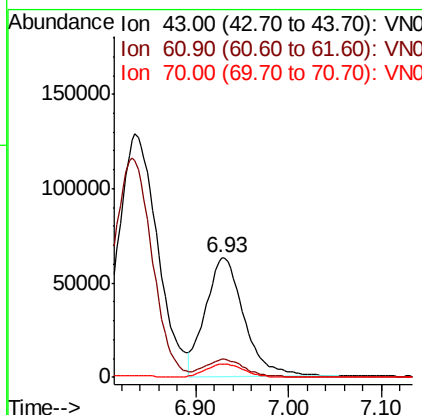
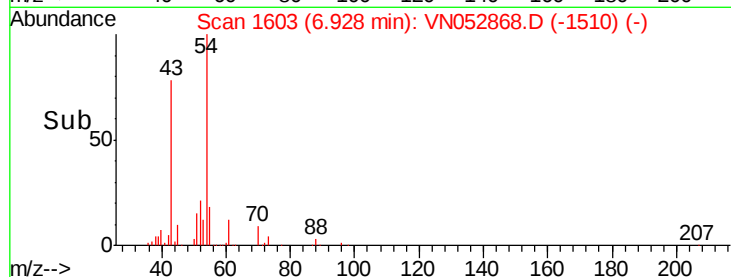
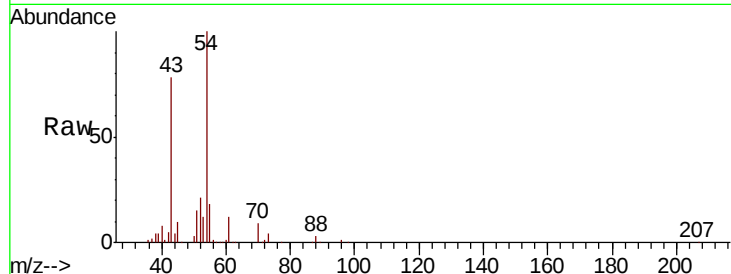
#37
Ethyl Acetate
Concen: 19.587 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.8	17.6
70	11.4	8.4	12.6

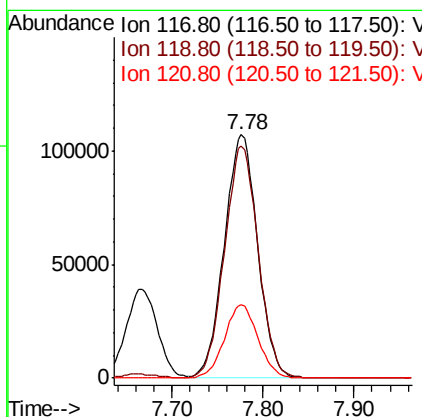
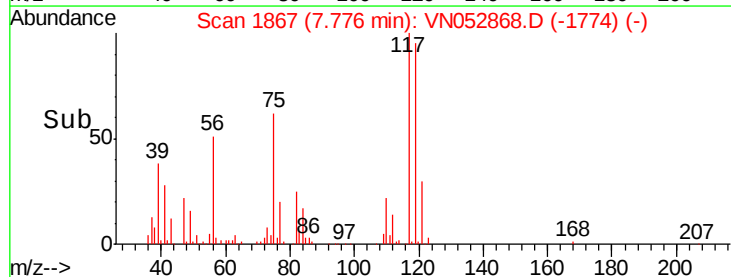
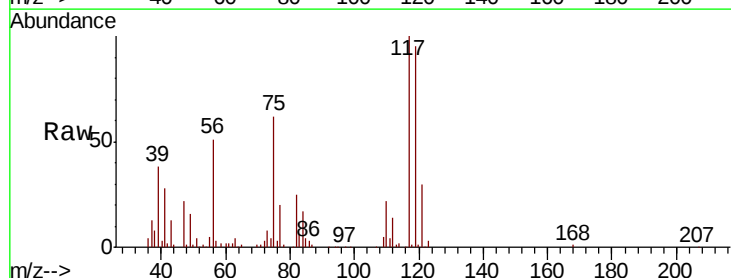
Manual Integrations
APPROVED

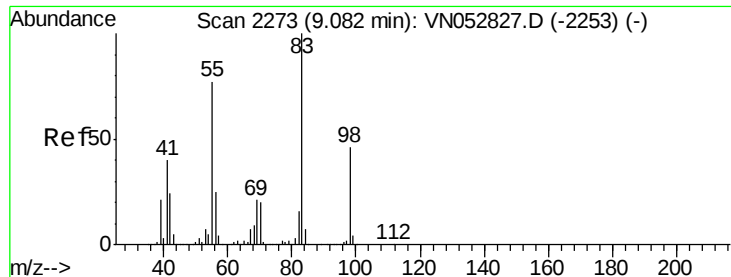
MMDadoda
12/14/2018 9:03:16 AM



#38
Carbon Tetrachloride
Concen: 19.278 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.1	115.7
121	30.3	24.9	37.3





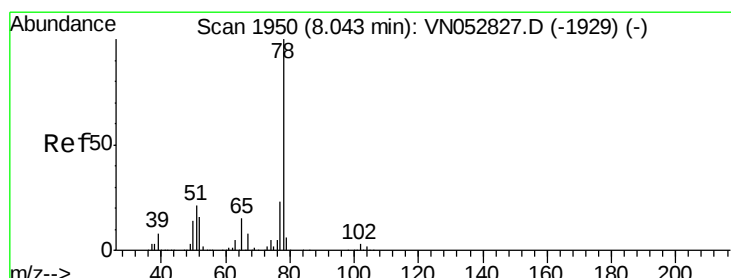
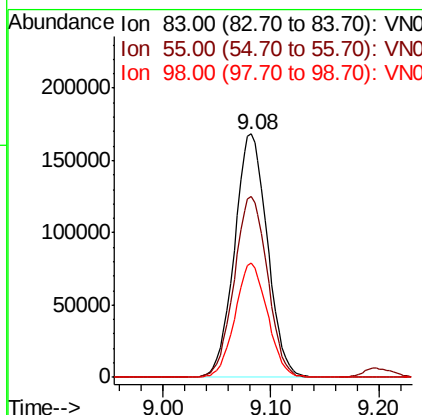
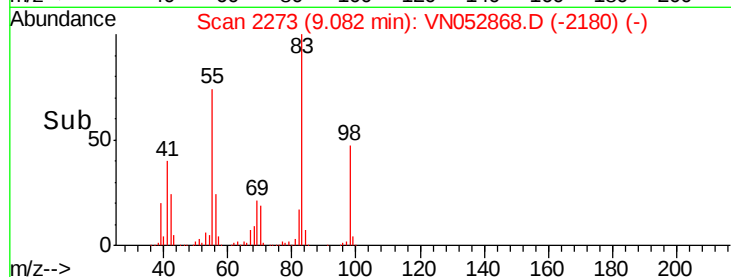
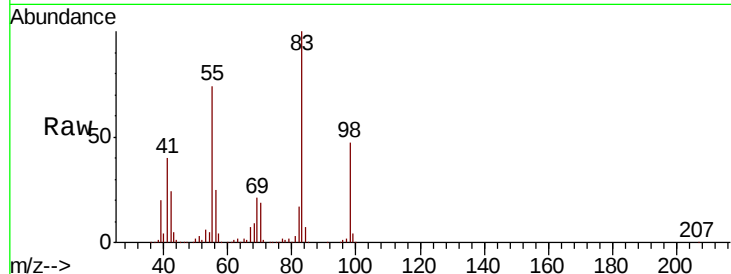
#39
Methvlcvclohexane
Concen: 18.916 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	74.1	61.3	91.9	
98	46.7	37.0	55.4	

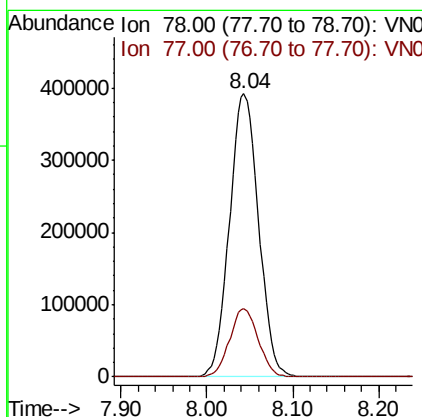
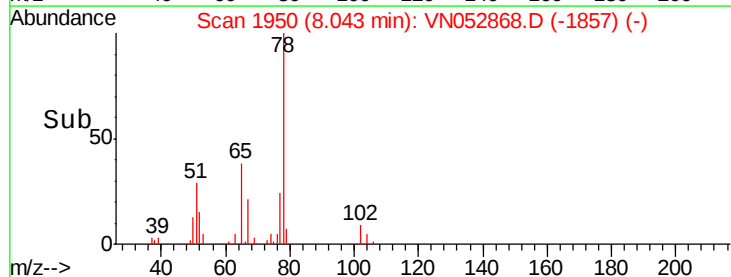
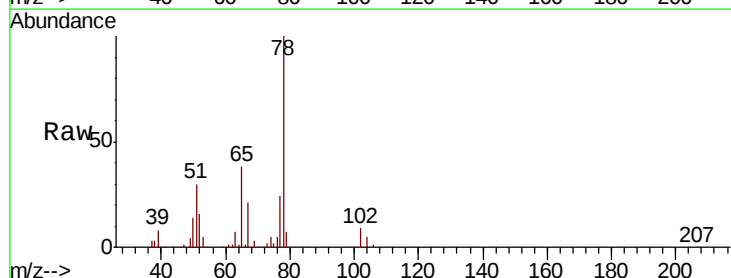
Manual Integrations
APPROVED

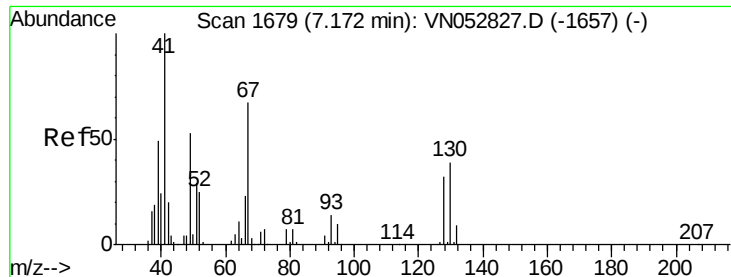
MMDadoda
12/14/2018 9:03:16 AM



#40
Benzene
Concen: 19.952 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	24.0	18.5	27.7	





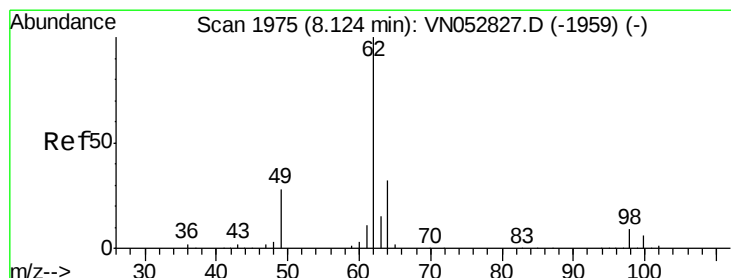
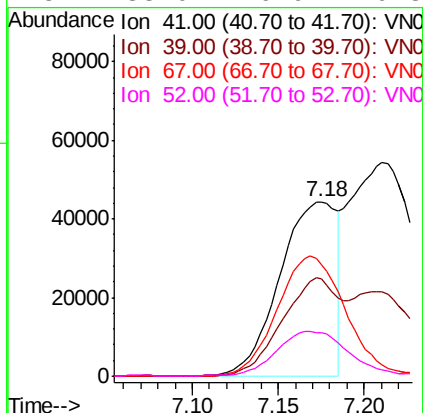
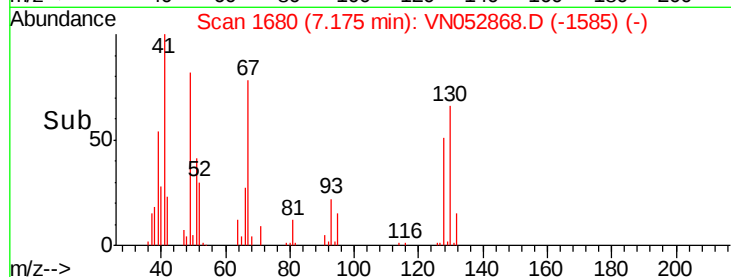
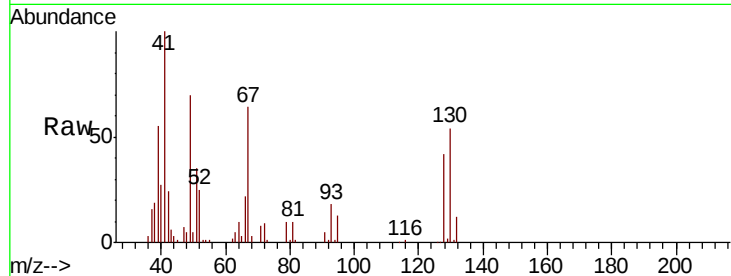
#41
Methacrylonitrile
Concen: 19.959 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	56.0	48.0	72.0	
67	82.7	70.3	105.5	
52	33.0	26.9	40.3	

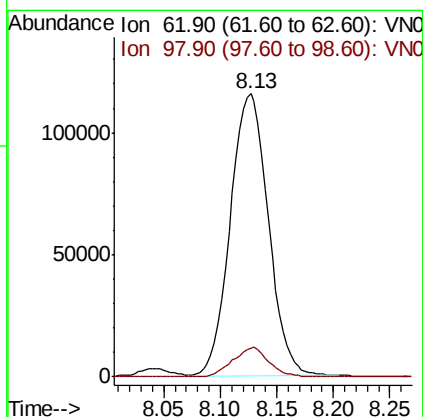
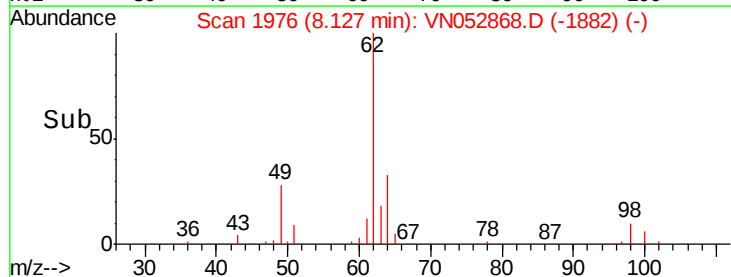
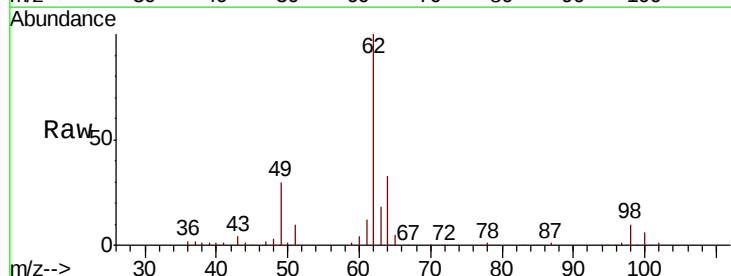
Manual Integrations
APPROVED

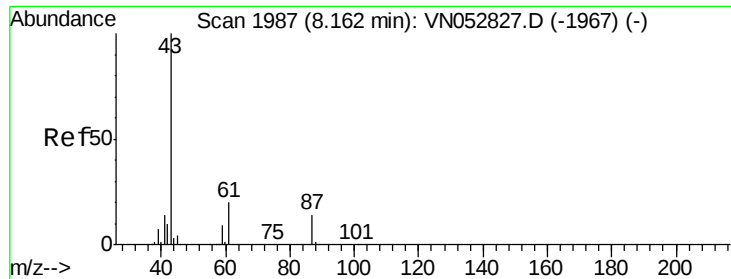
MMDadoda
12/14/2018 9:03:16 AM



#42
1,2-Dichloroethane
Concen: 19.492 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.9	0.0	19.0	





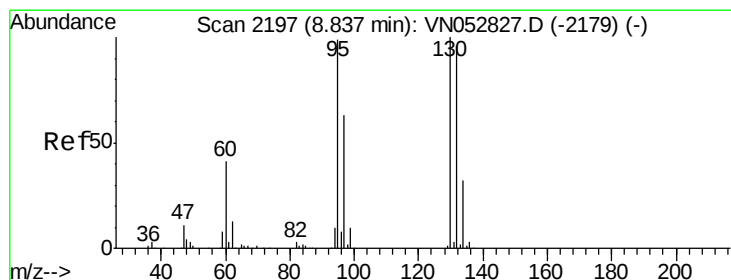
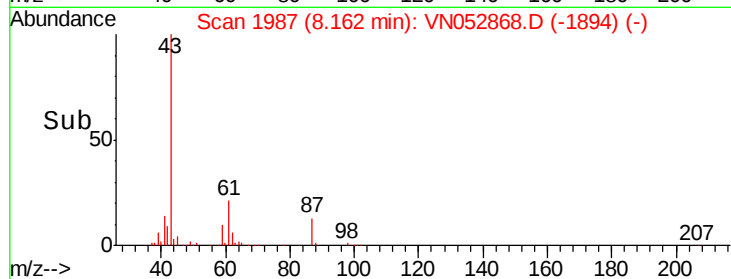
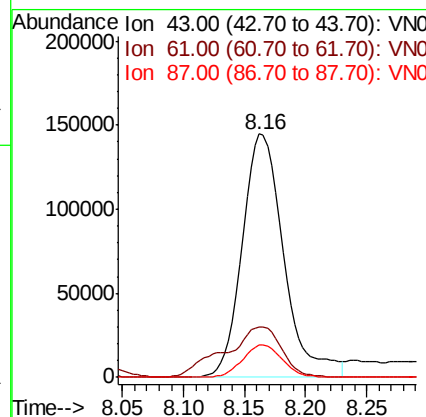
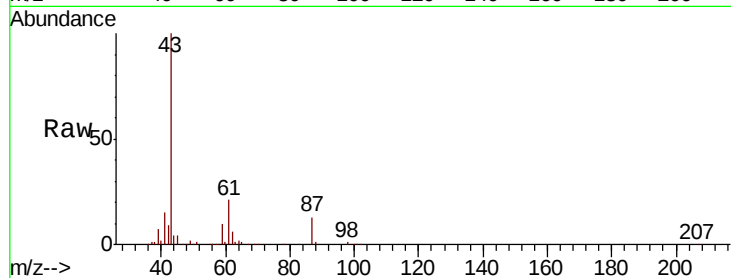
#43
Isopropyl Acetate
Concen: 17.915 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.2	22.9	34.3
87	12.7	10.6	15.8

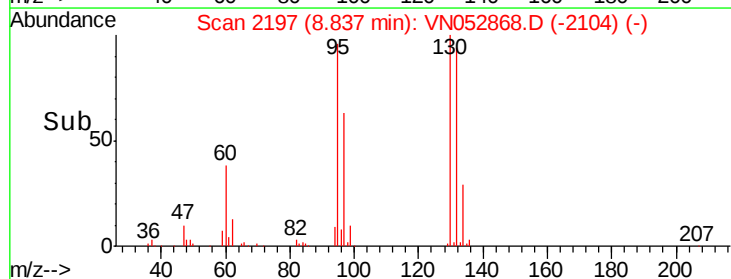
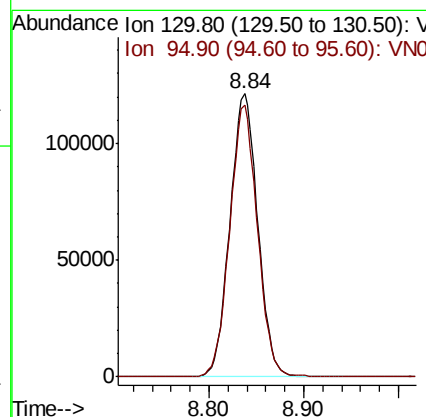
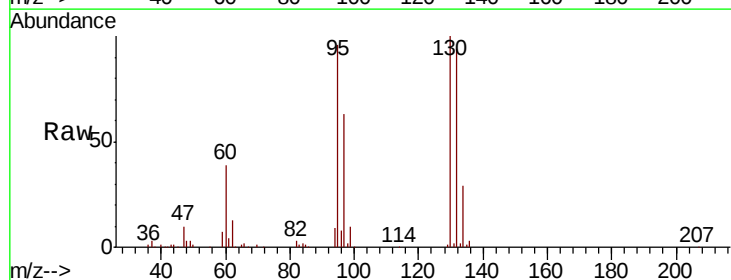
Manual Integrations
APPROVED

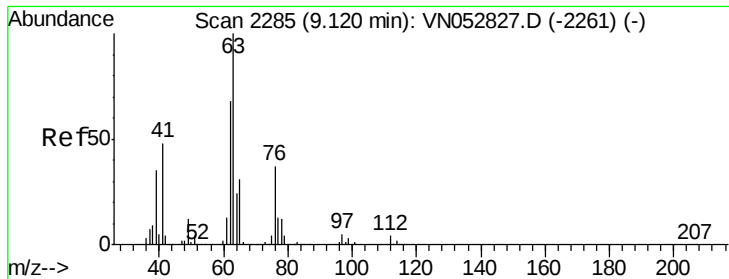
MMDadoda
12/14/2018 9:03:16 AM



#44
Trichloroethene
Concen: 19.835 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.3	0.0	197.8





#45

1,2-Dichloropropane

Concen: 20.070 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

VN1213WBSD01

Tot Ion: 63 Resp: 242892

Ion Ratio Lower Upper

63 100

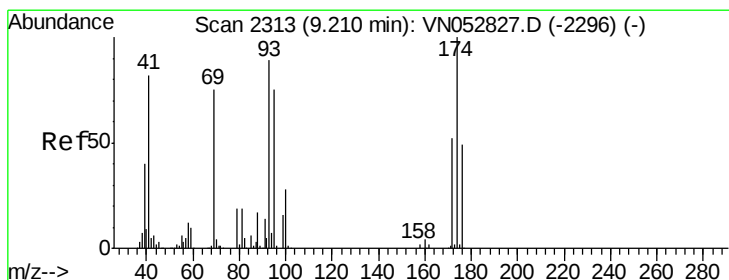
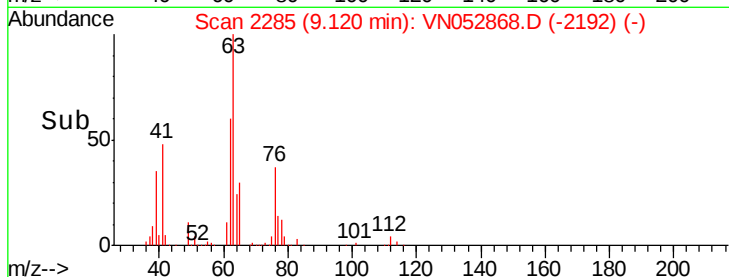
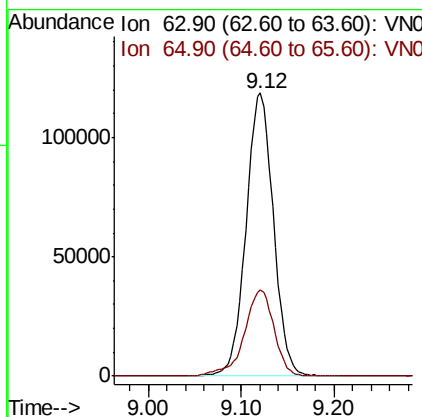
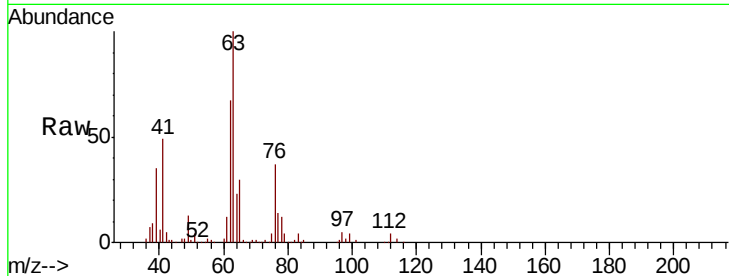
65 30.3 24.6 37.0

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:03:16 AM



#46

Dibromomethane

Concen: 19.576 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

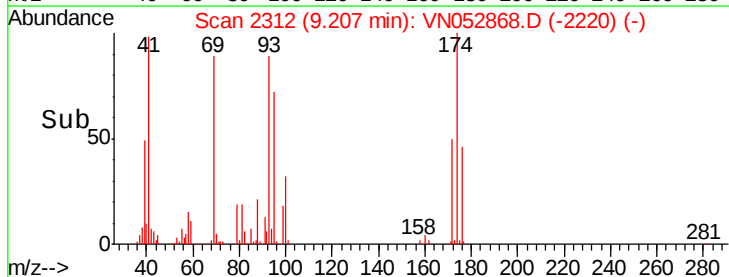
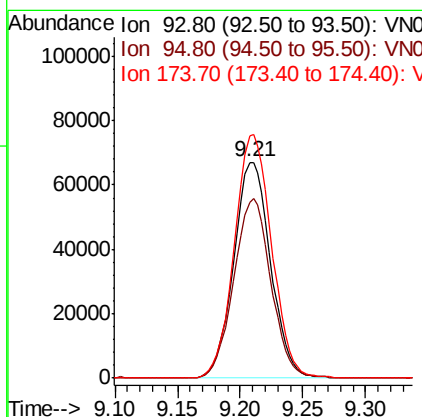
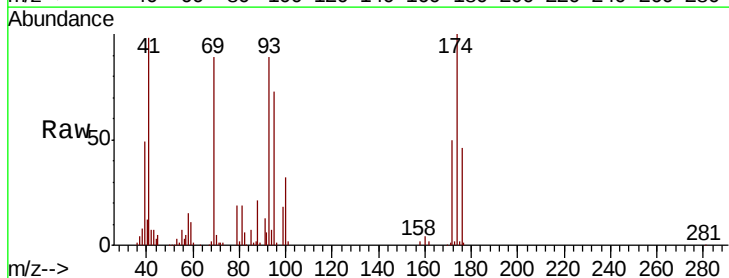
Tgt Ion: 93 Resp: 137393

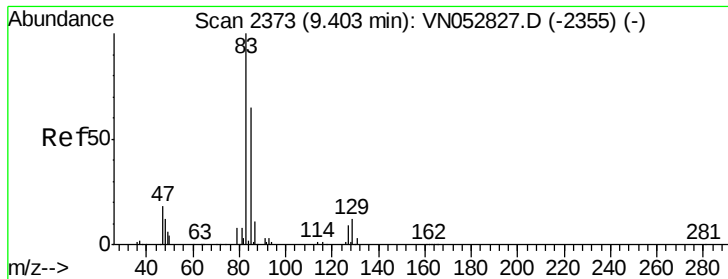
Ion Ratio Lower Upper

93 100

95 83.6 67.8 101.6

174 114.1 89.0 133.4





#47

Bromodichloromethane

Concen: 19.466 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

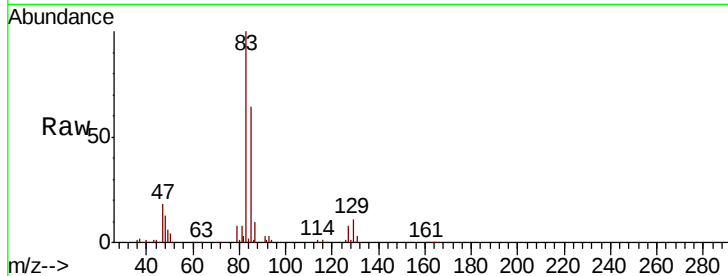
ClientSampleId :

VN1213WBSD01

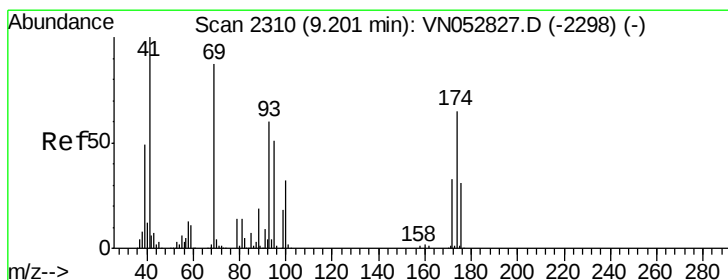
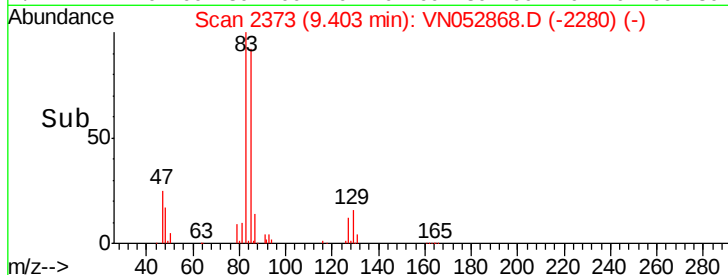
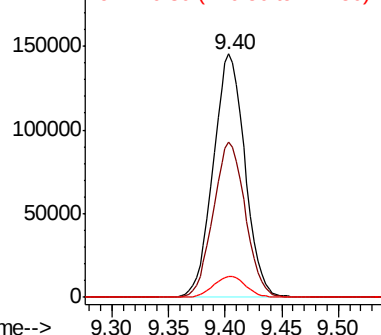
Tot Ion:	83	Resp:	283320
Ion Ratio	Lower	Upper	
83	100		
85	63.6	51.6	77.4
127	8.5	7.1	10.7

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM



Abundance Ion 82.90 (82.60 to 83.60): VN052827.D (-2355) (-)



#48

Methyl methacrylate

Concen: 19.781 ug/l

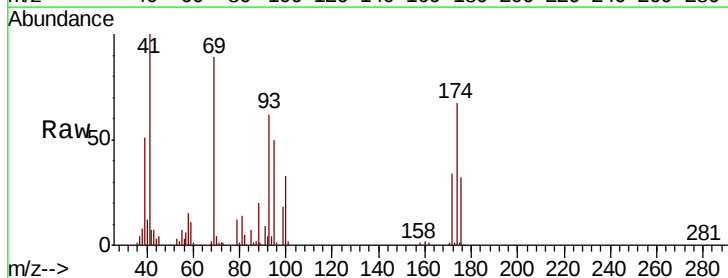
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

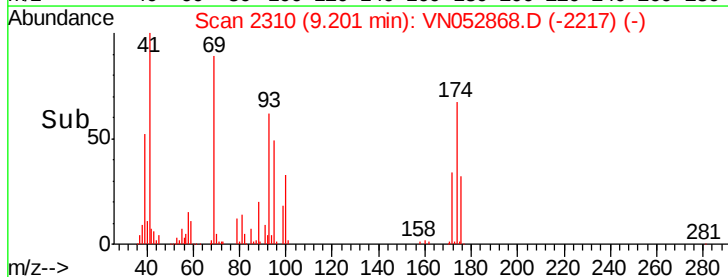
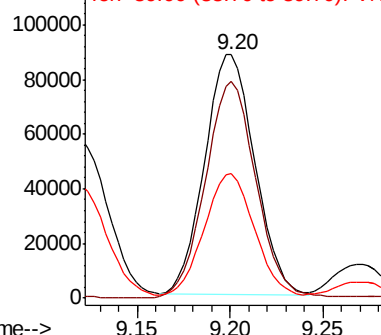
Lab File: VN052868.D

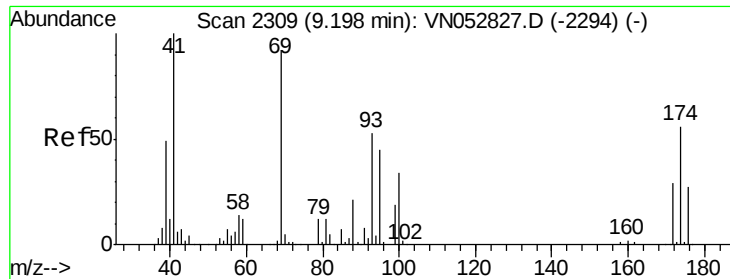
Acq: 13 Dec 2018 16:54

Tgt Ion:	41	Resp:	164480
Ion Ratio	Lower	Upper	
41	100		
69	91.8	72.2	108.2
39	52.6	41.9	62.9



Abundance Ion 41.00 (40.70 to 41.70): VN052827.D (-2298) (-)





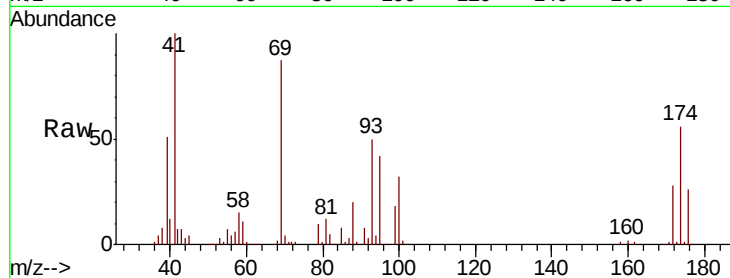
#49
1,4-Dioxane
Concen: 410.024 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

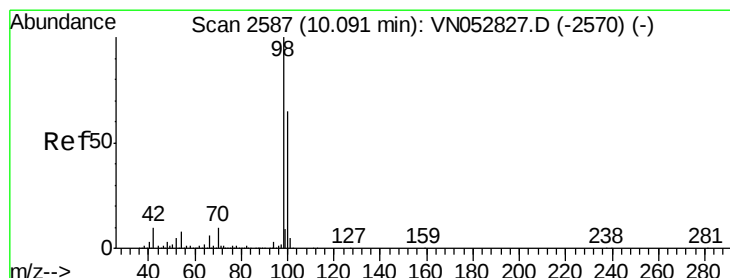
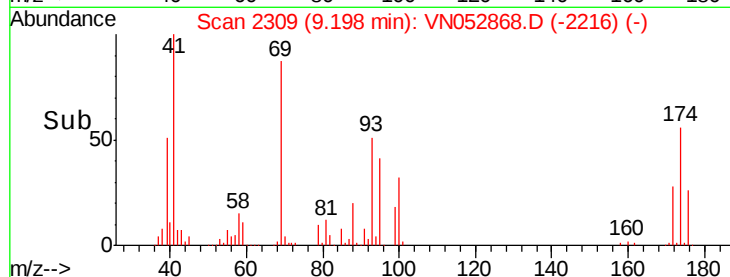
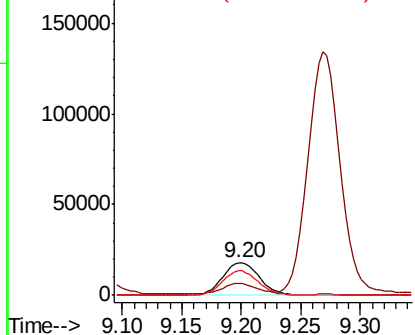
Tot Ion	Ratio	Lower	Upper
88	100		
43	30.1	26.6	40.0
58	72.1	58.4	87.6

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM

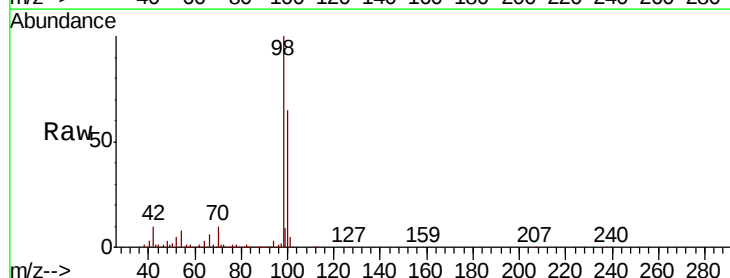


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

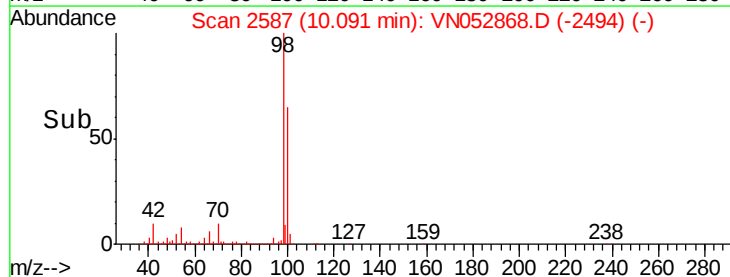
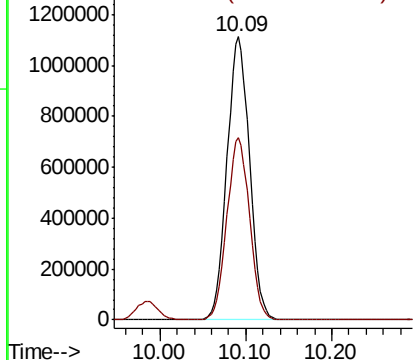


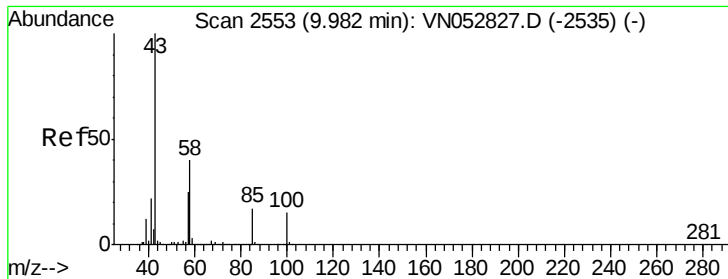
#50
Toluene-d8
Concen: 410.024 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.6	77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





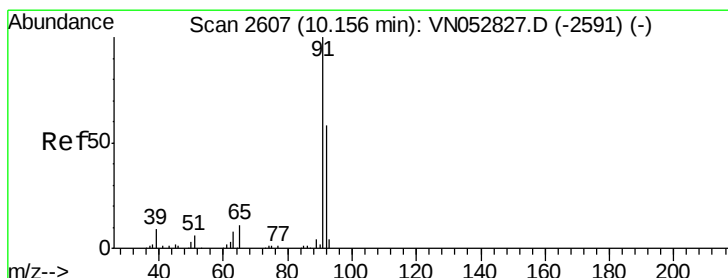
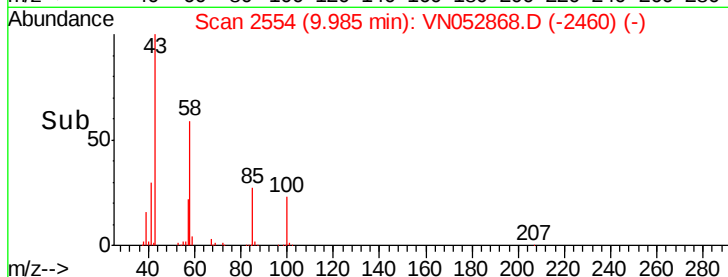
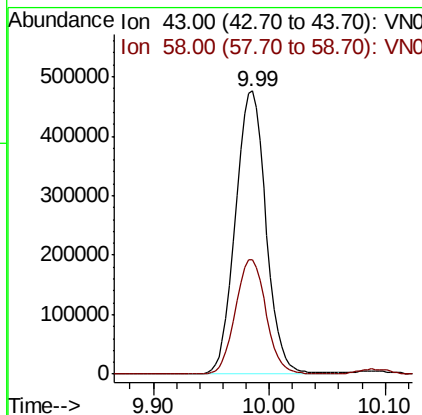
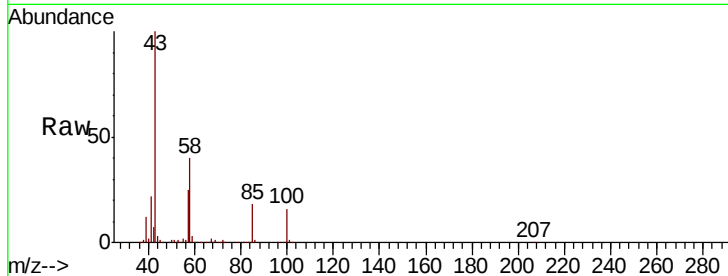
#51
4-Methyl-2-Pentanone
Concen: 99.827 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.5	32.2	48.4

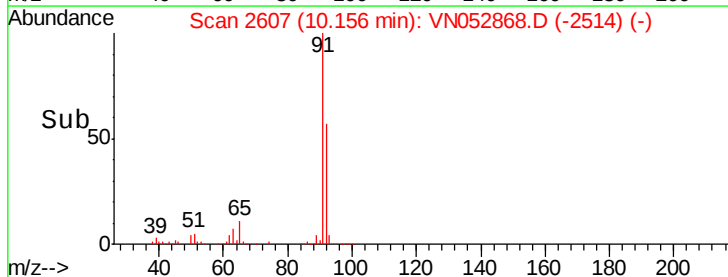
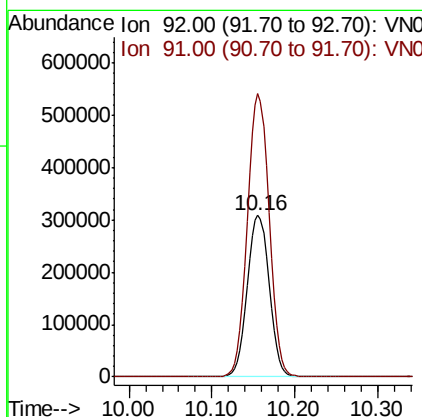
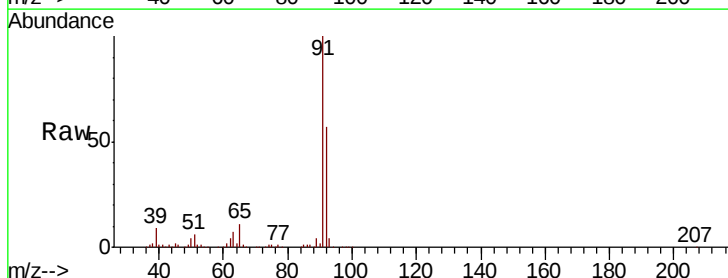
Manual Integrations
APPROVED

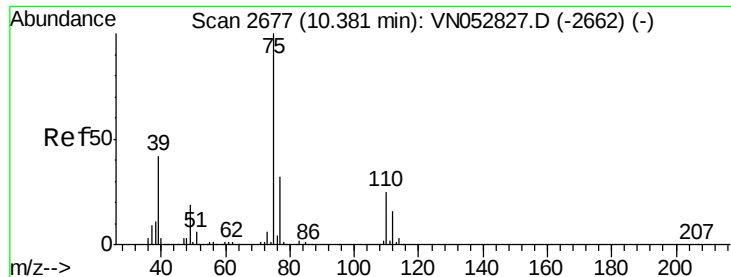
MMDadoda
12/14/2018 9:03:16 AM



#52
Toluene
Concen: 20.269 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.1	139.8	209.6





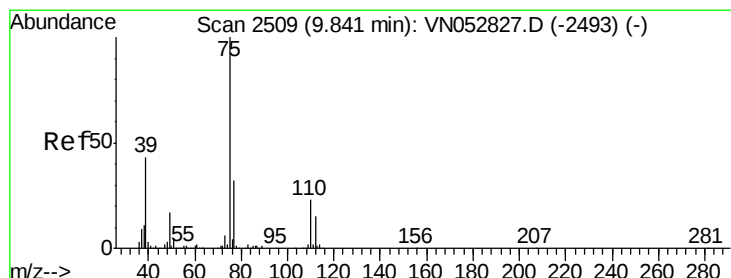
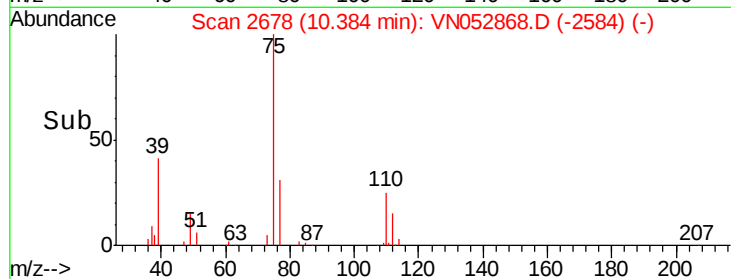
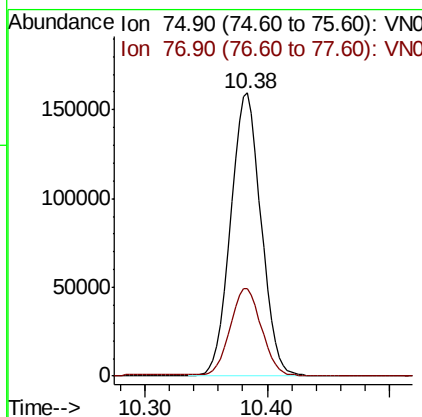
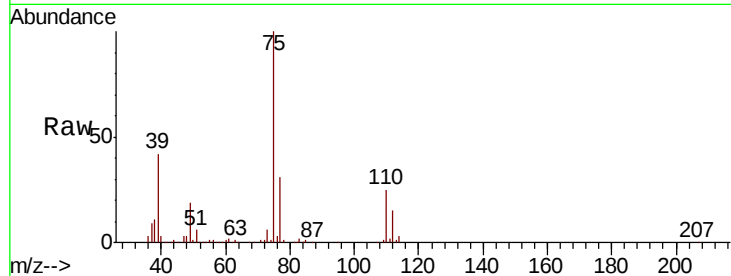
#53
t-1,3-Dichloropropene
Concen: 18.941 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.6	38.4

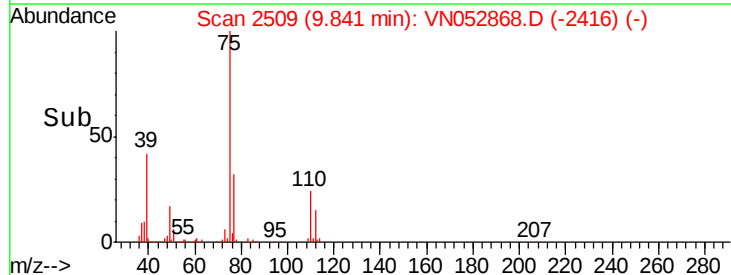
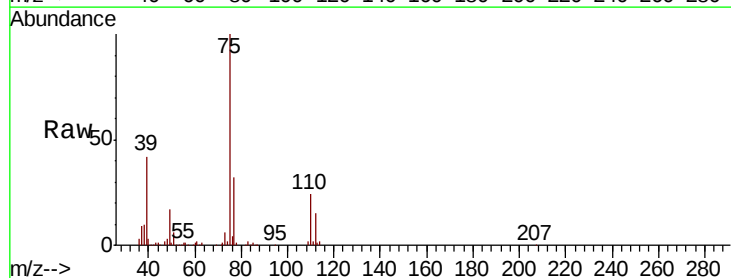
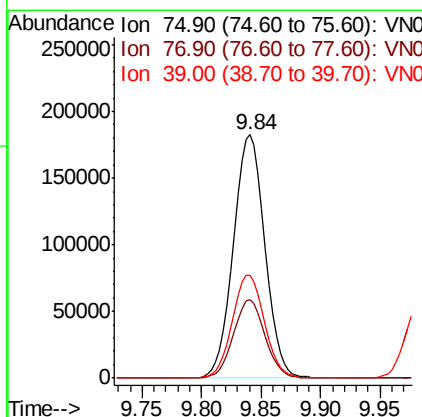
Manual Integrations
APPROVED

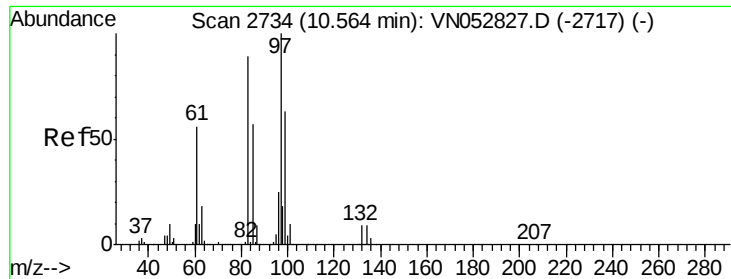
MMDadoda
12/14/2018 9:03:16 AM



#54
cis-1,3-Dichloropropene
Concen: 19.195 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.8	38.8
39	42.0	34.8	52.2





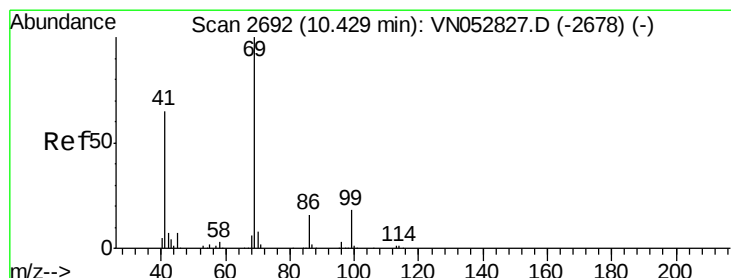
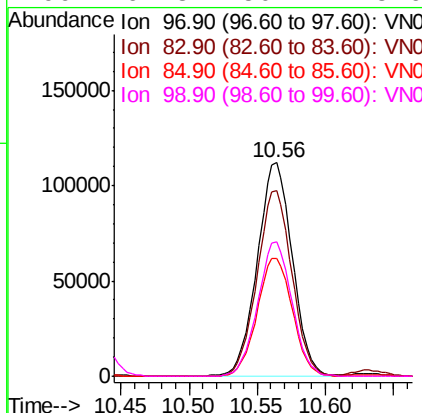
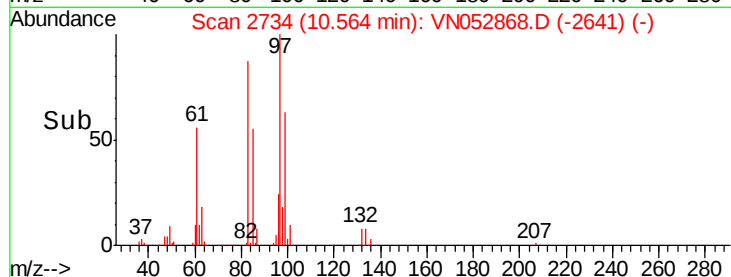
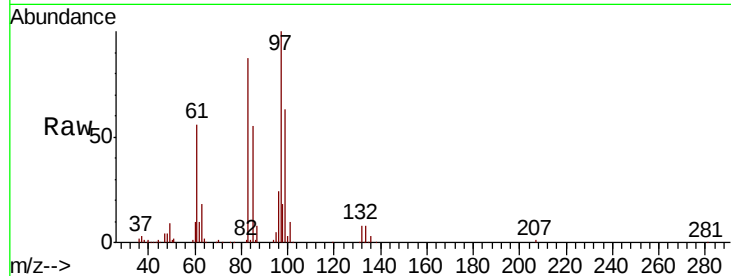
#55
 1,1,2-Trichloroethane
 Concen: 20.066 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213WBSD01

Tot Ion:	97	Resp:	200450
Ion	Ratio	Lower	Upper
97	100		
83	86.7	70.9	106.3
85	55.0	45.4	68.2
99	62.8	50.4	75.6

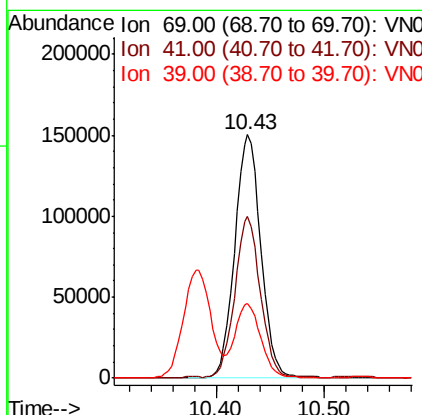
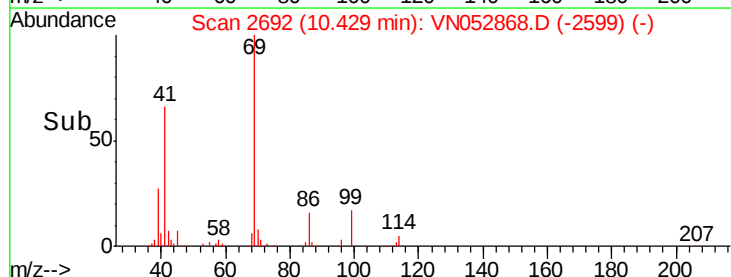
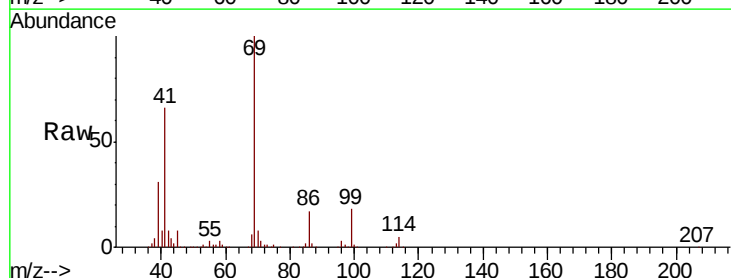
Manual Integrations
 APPROVED

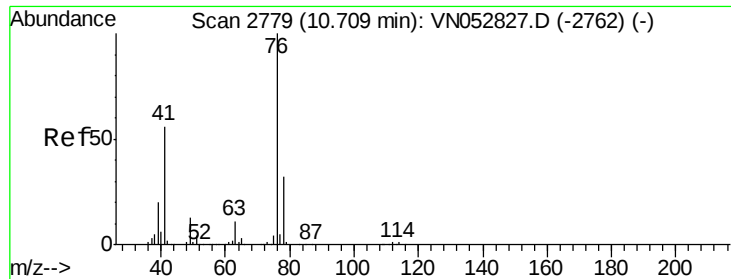
MMDadoda
 12/14/2018 9:03:16 AM



#56
 Ethyl methacrylate
 Concen: 19.827 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Tgt Ion:	69	Resp:	254183
Ion	Ratio	Lower	Upper
69	100		
41	64.0	51.7	77.5
39	30.5	24.6	37.0





#57

1,3-Dichloropropane

Concen: 20.012 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

VN1213WBSD01

Tot Ion: 76 Resp: 342820

Ion Ratio Lower Upper

76 100

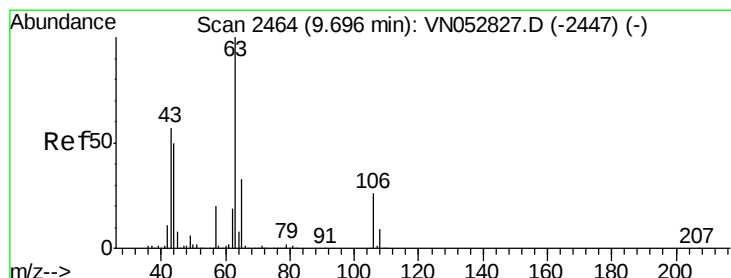
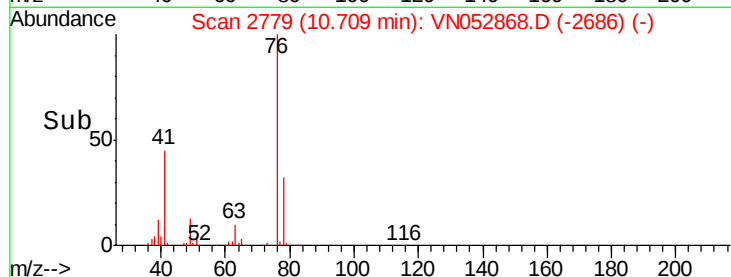
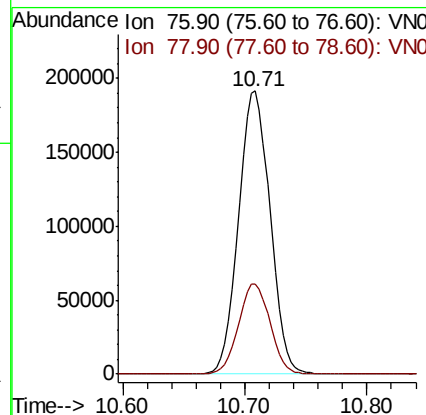
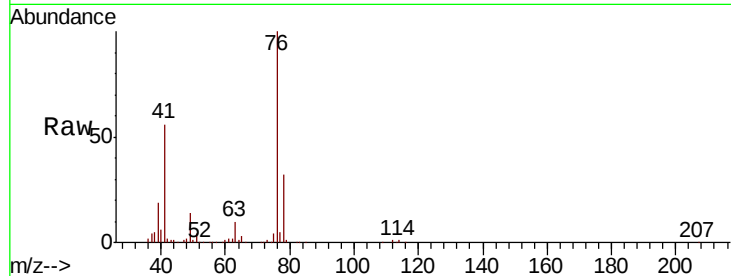
78 31.9 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:03:16 AM



#58

2-Chloroethyl Vinyl ether

Concen: 100.865 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052868.D

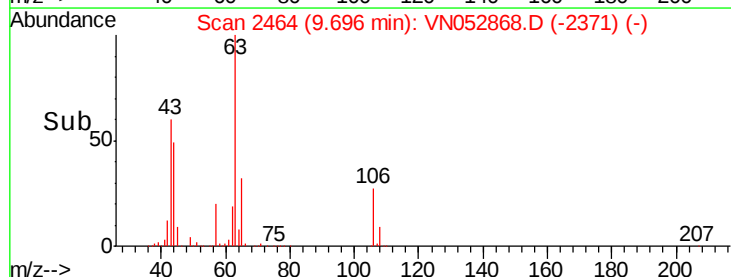
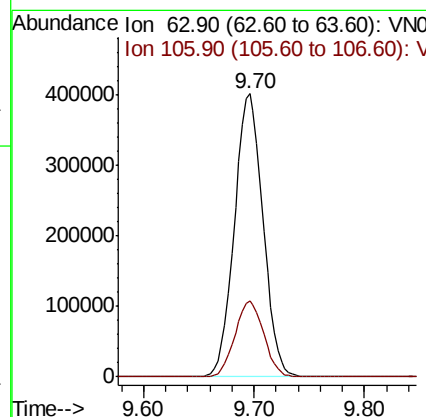
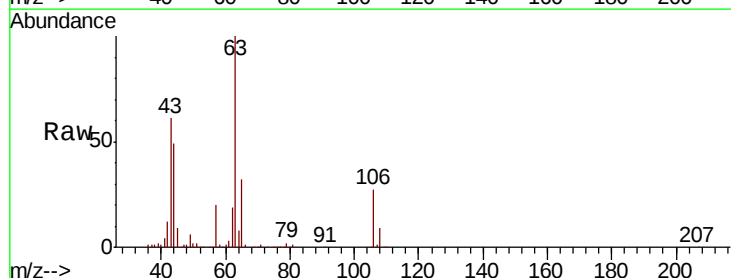
Acq: 13 Dec 2018 16:54

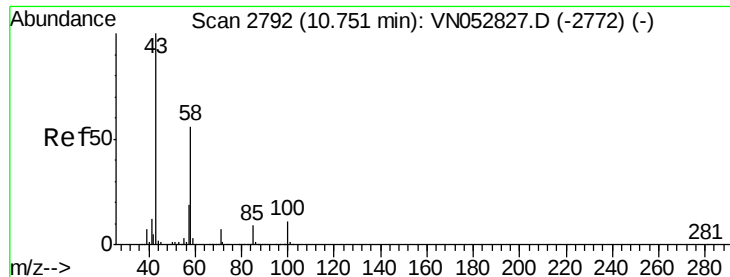
Tgt Ion: 63 Resp: 721518

Ion Ratio Lower Upper

63 100

106 27.0 21.0 31.6





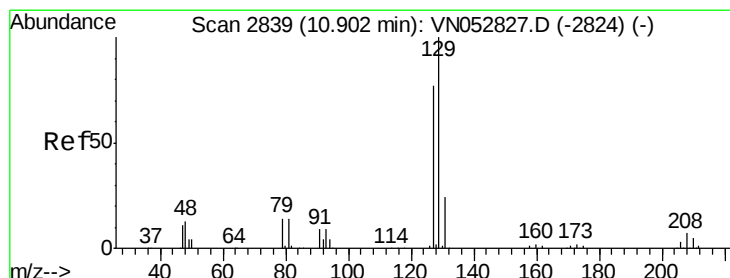
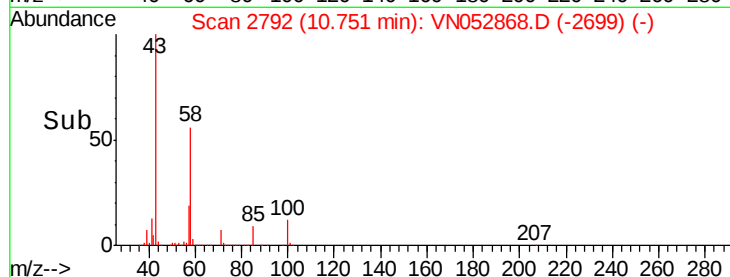
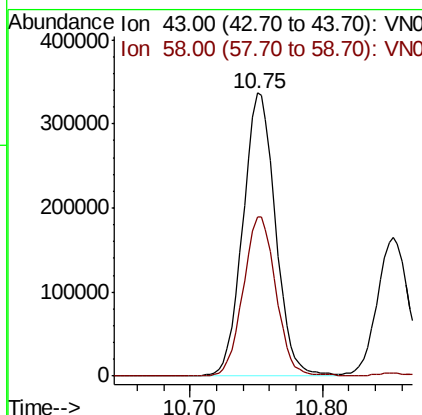
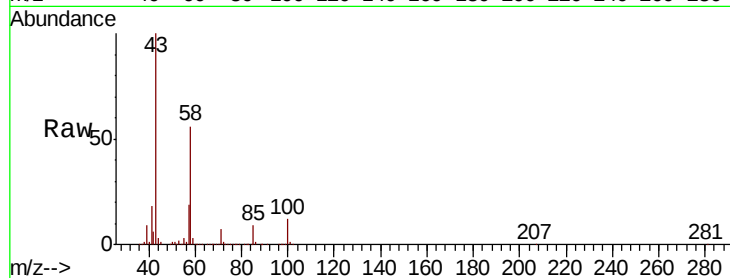
#59
2-Hexanone
Concen: 95.967 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.8	28.1	84.3

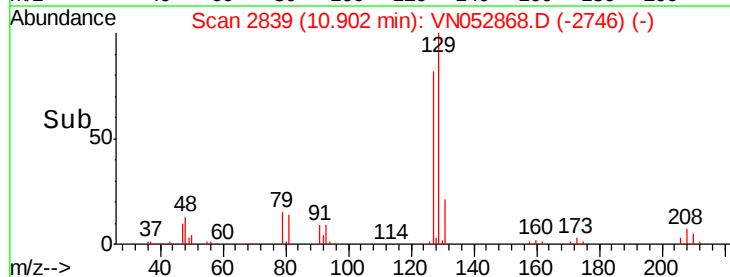
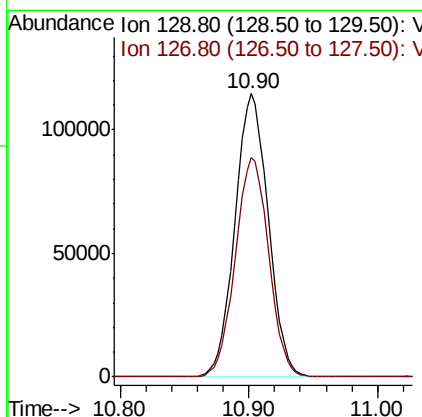
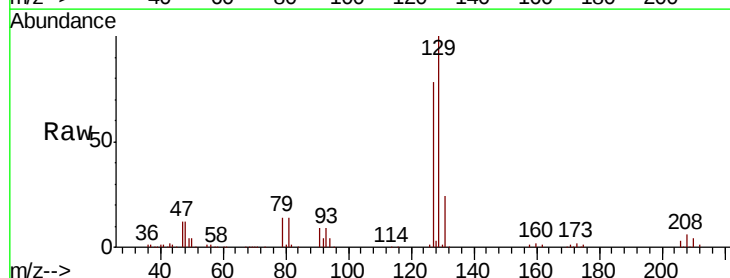
Manual Integrations
APPROVED

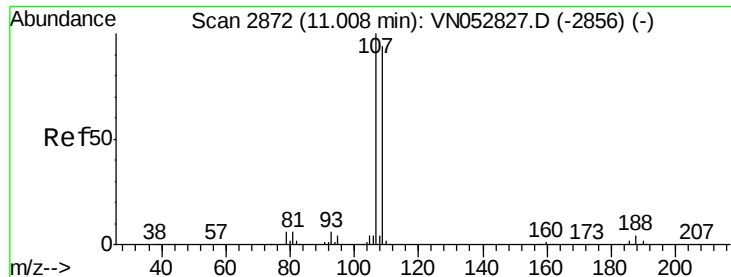
MMDadoda
12/14/2018 9:03:16 AM



#60
Dibromochloromethane
Concen: 19.064 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.6	116.0





#61

1,2-Dibromoethane

Concen: 20.040 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

VN1213WBSD01

Tot Ion: 107 Resp: 197879

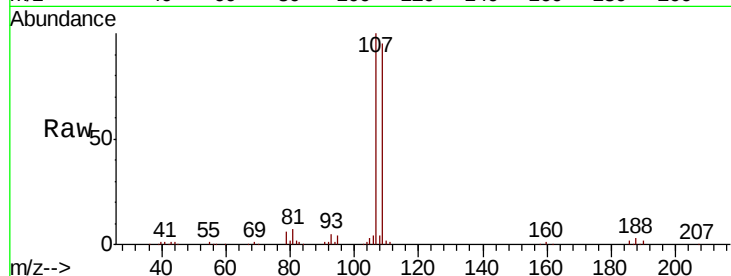
Ion Ratio Lower Upper

107 100

109 93.4 75.4 113.0

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

120000

100000

80000

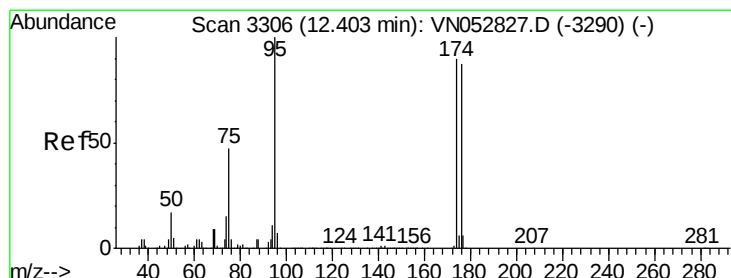
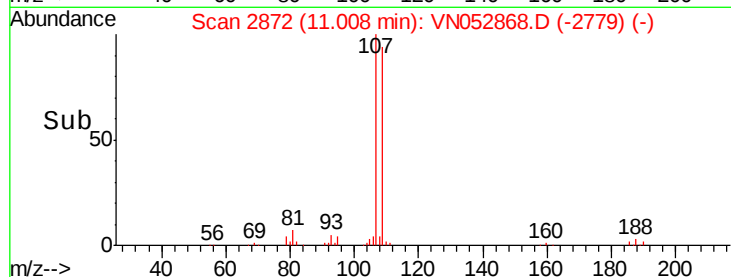
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 20.040 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

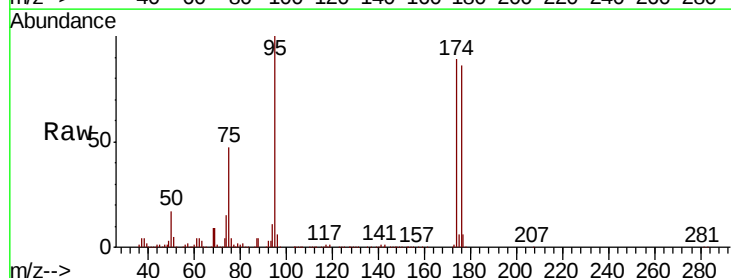
Tgt Ion: 95 Resp: 693352

Ion Ratio Lower Upper

95 100

174 89.5 0.0 178.8

176 85.6 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

500000

400000

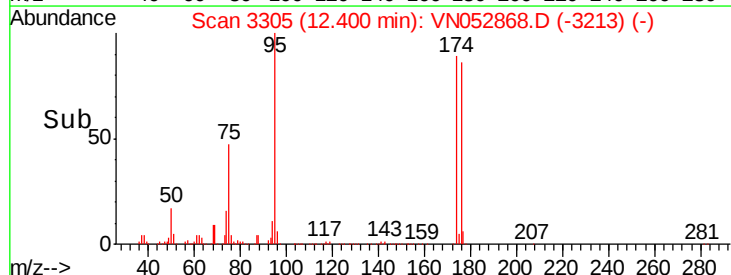
300000

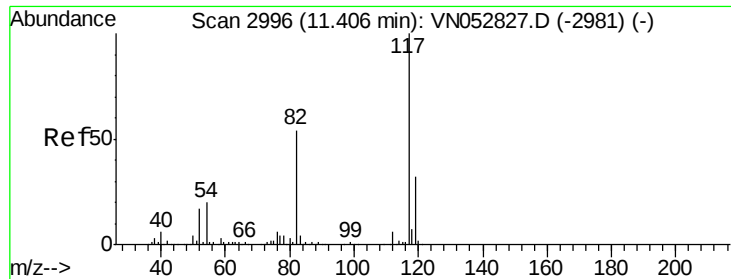
200000

100000

0

Time-->





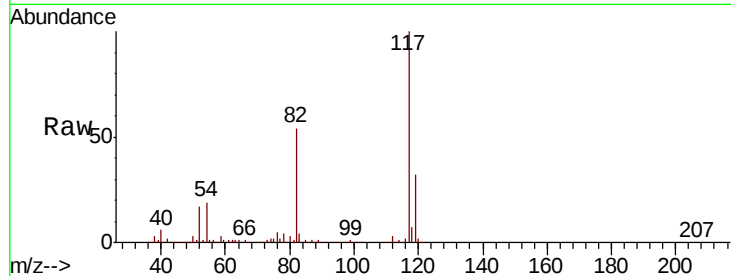
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	42.8	64.2
119	32.3	25.5	38.3

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM

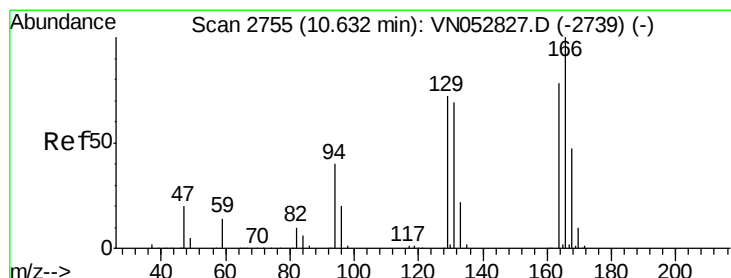
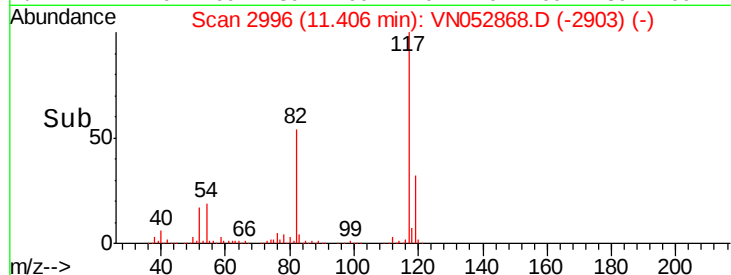
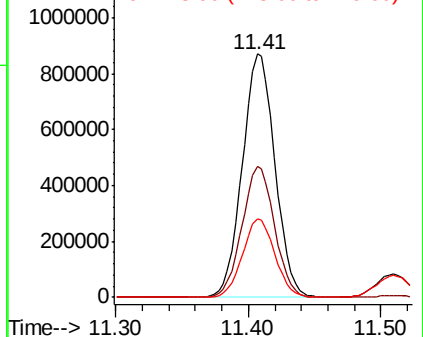


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 20.034 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.5	102.9	154.3
129	92.7	73.7	110.5
131	85.6	70.7	106.1

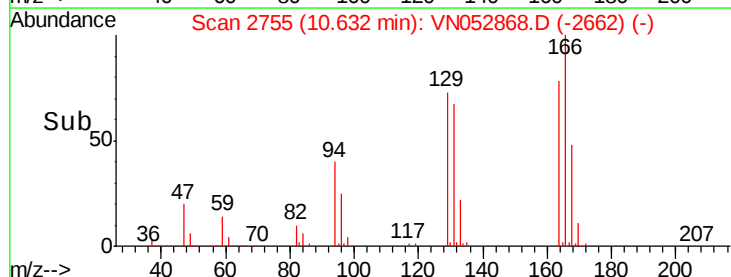
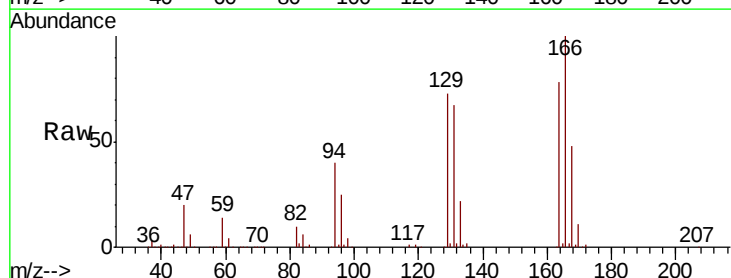
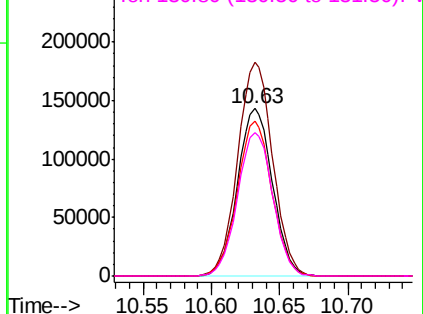
Abundance

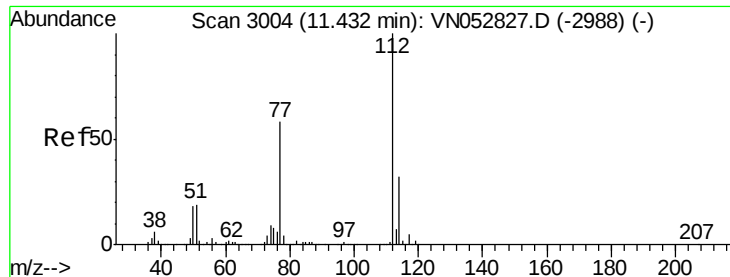
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





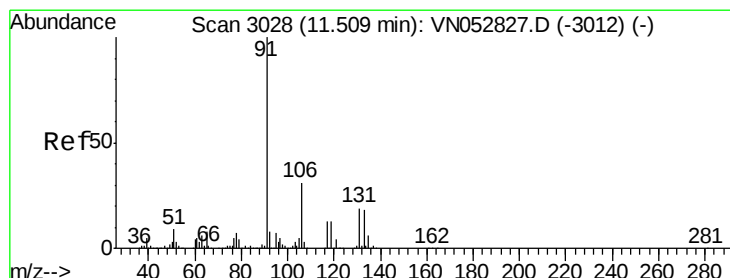
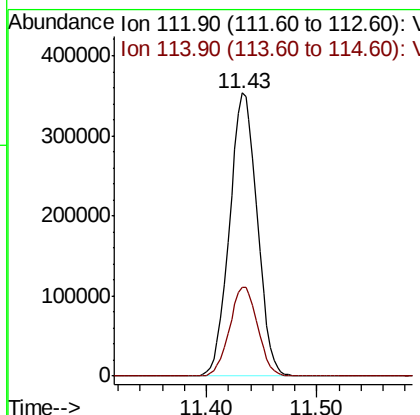
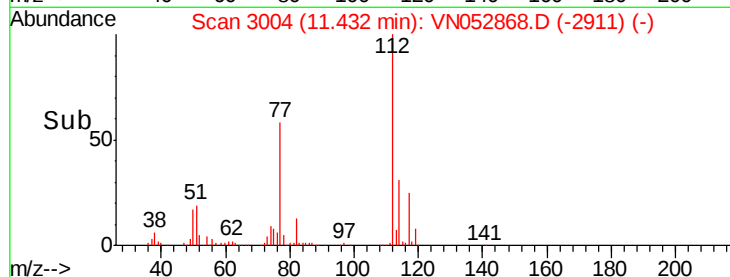
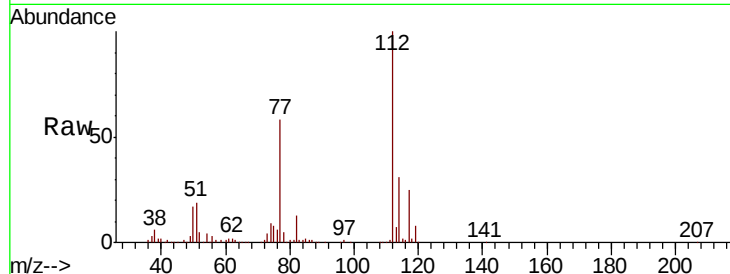
#65
Chlorobenzene
Concen: 19.990 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion:112 Resp: 615007
Ion Ratio Lower Upper
112 100
114 31.5 25.5 38.3

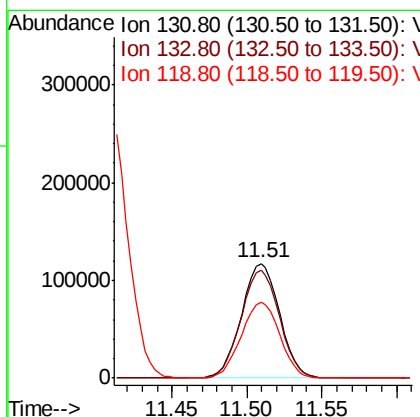
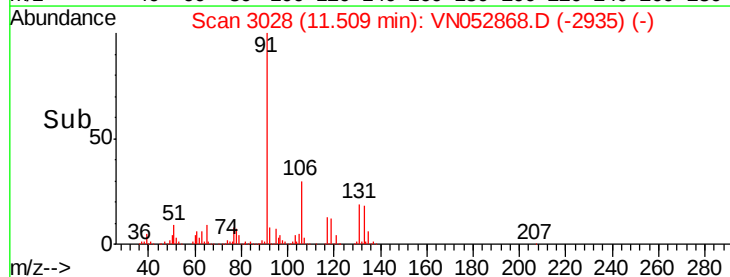
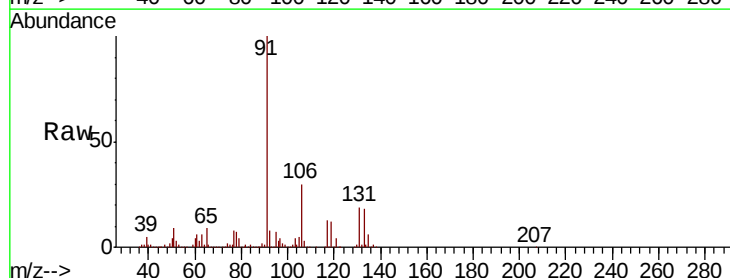
Manual Integrations
APPROVED

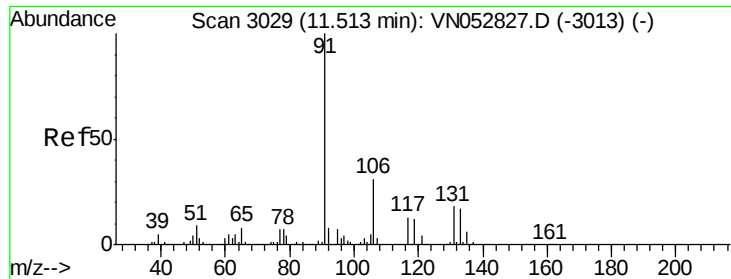
MMDadoda
12/14/2018 9:03:16 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.509 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion:131 Resp: 208746
Ion Ratio Lower Upper
131 100
133 94.9 47.6 142.9
119 66.9 33.3 99.8





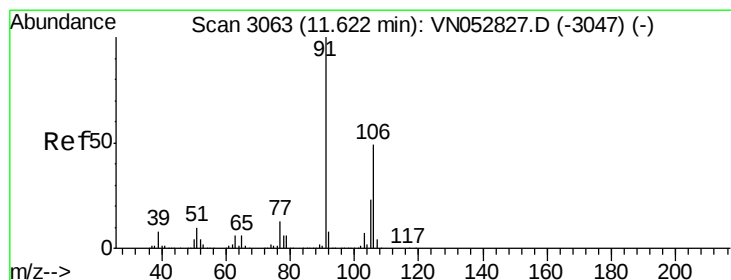
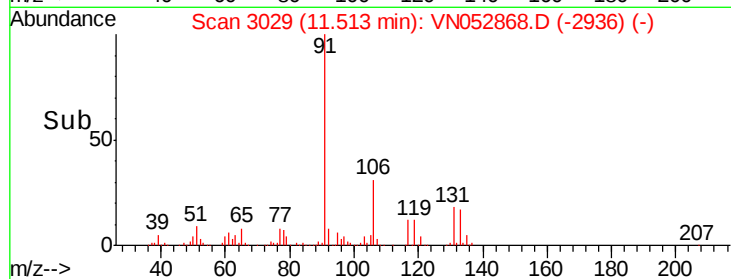
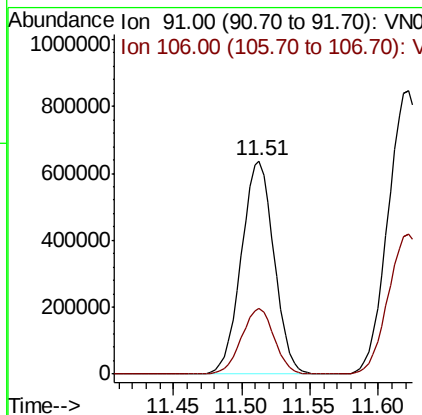
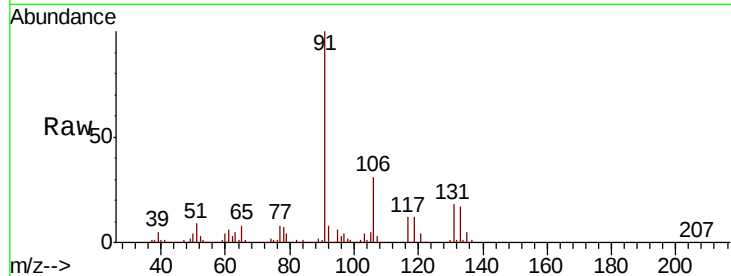
#67
Ethyl Benzene
Concen: 20.051 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion: 91 Resp: 1059366
Ion Ratio Lower Upper
91 100
106 30.7 24.9 37.3

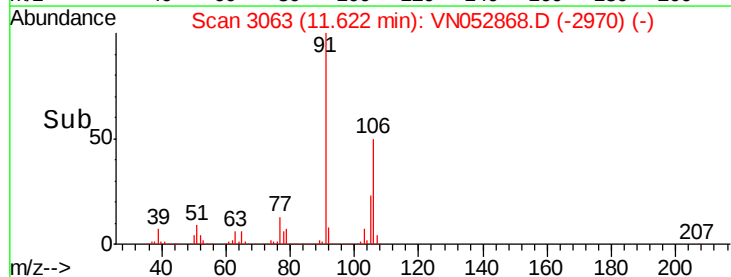
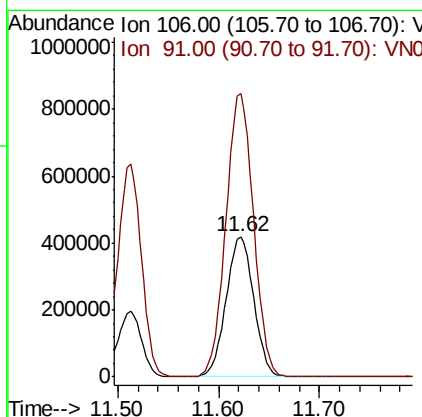
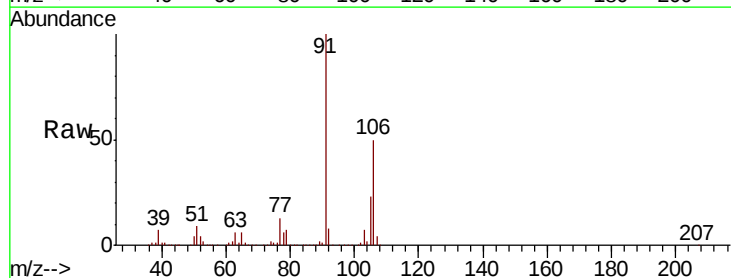
Manual Integrations
APPROVED

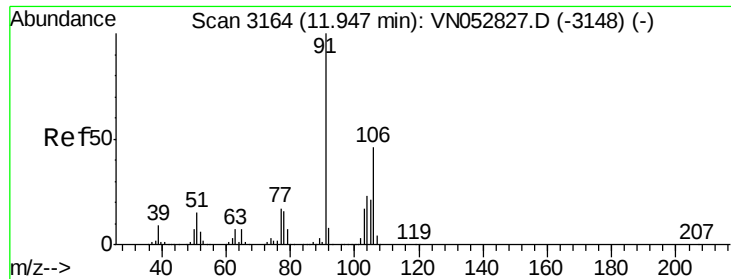
MMDadoda
12/14/2018 9:03:16 AM



#68
m/p-Xylenes
Concen: 40.376 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion: 106 Resp: 801023
Ion Ratio Lower Upper
106 100
91 201.7 162.2 243.4





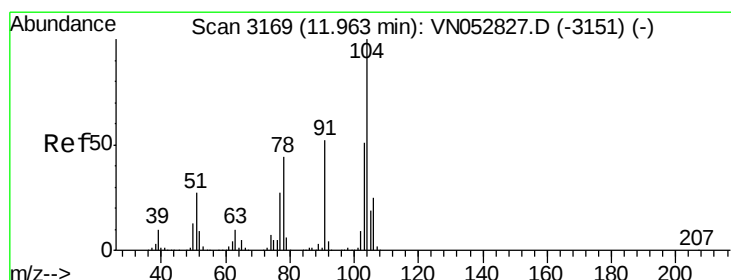
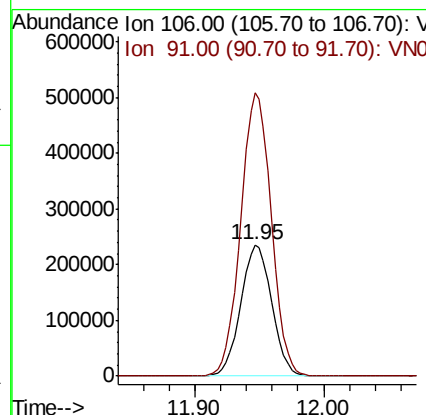
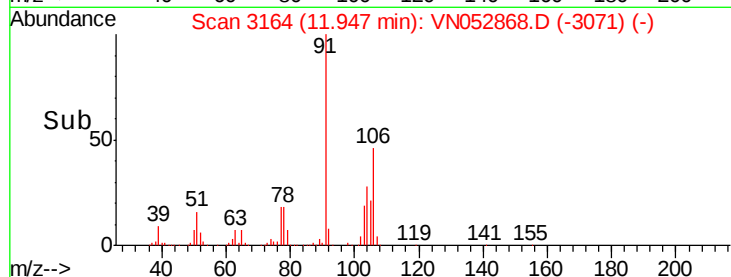
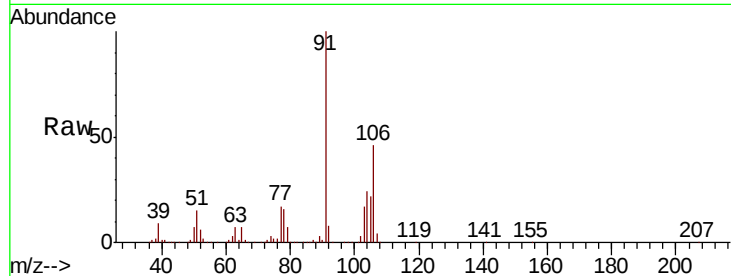
#69
o-Xylene
Concen: 20.227 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
391854	106	100			
	91	213.8	106.6	319.8	

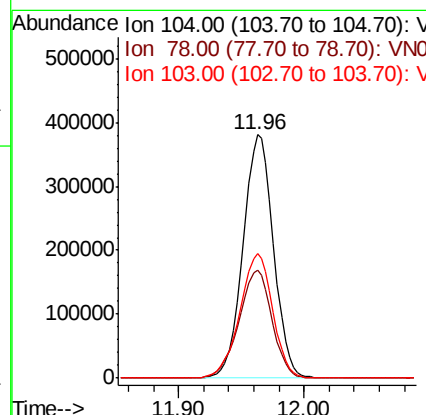
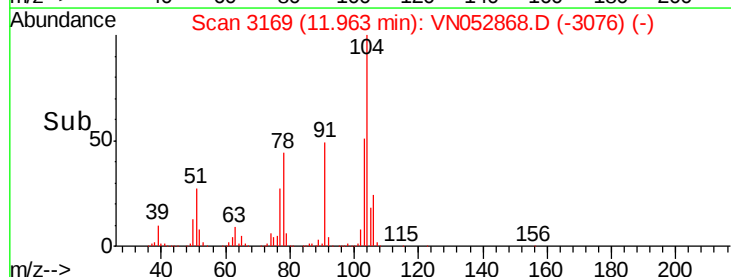
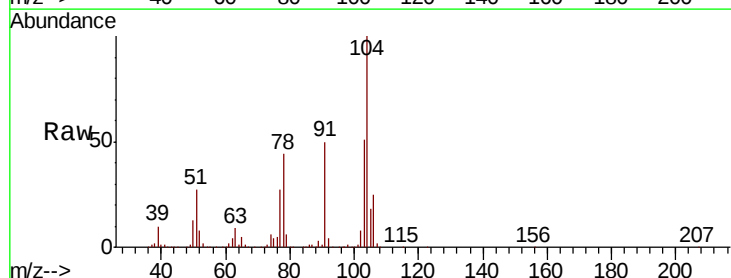
Manual Integrations
APPROVED

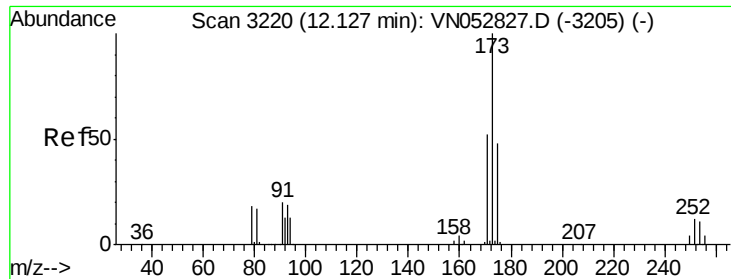
MMDadoda
12/14/2018 9:03:16 AM



#70
Styrene
Concen: 20.540 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
639657	104	100			
	78	48.3	38.9	58.3	
	103	55.4	44.3	66.5	





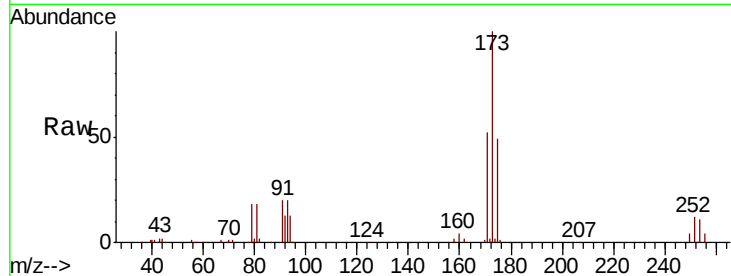
#71
Bromoform
Concen: 18.707 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.3	72.9
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM

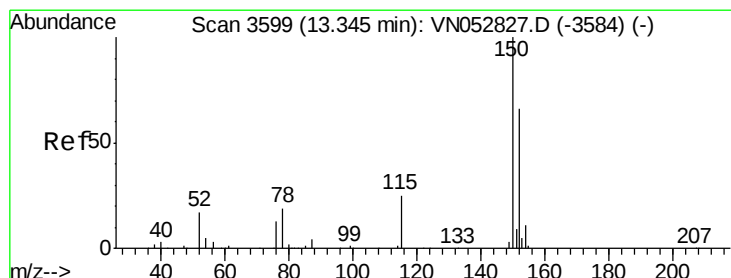
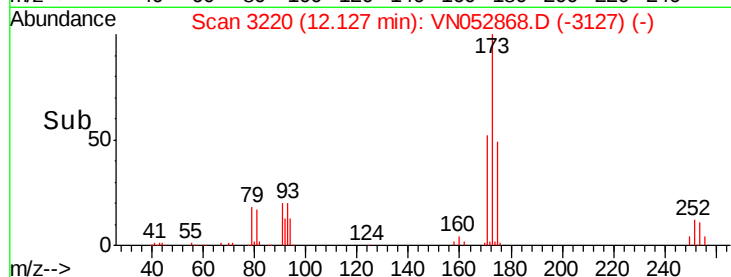
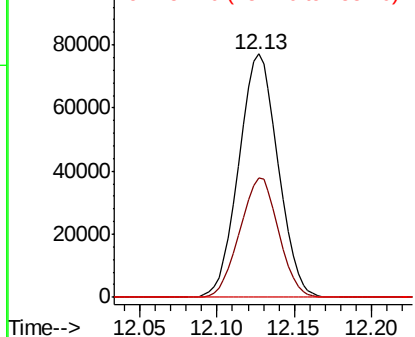


Abundance

Ion 172.70 (172.40 to 173.40): V

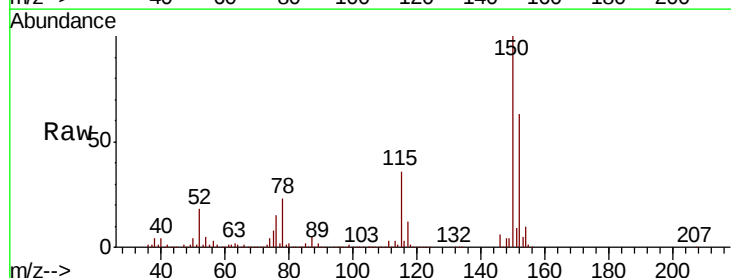
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	28.3	85.0
150	163.5	0.0	347.8

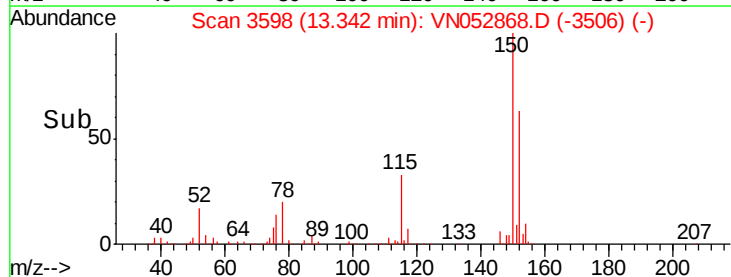
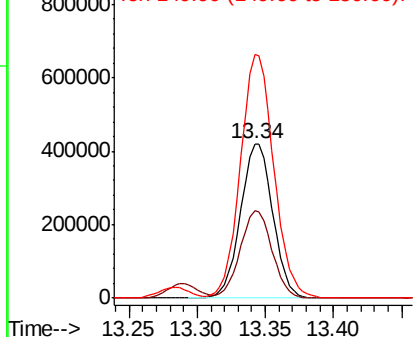


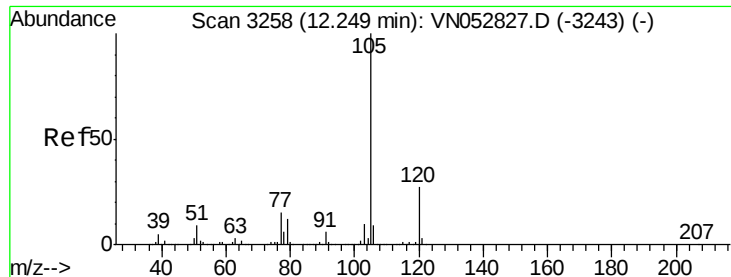
Abundance

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: 20.348 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

VN1213WBSD01

Tot Ion:105 Resp: 1043969

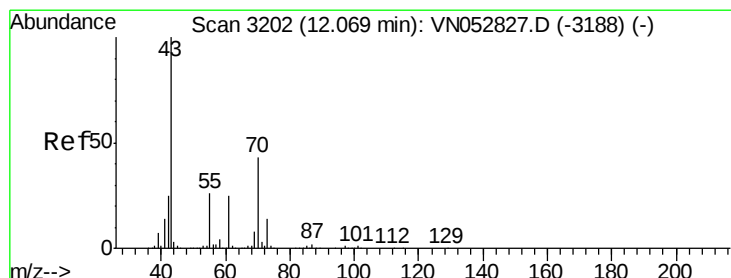
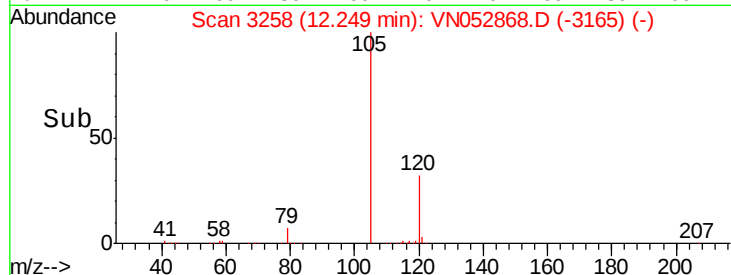
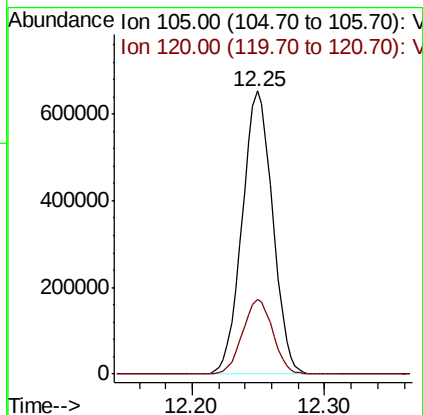
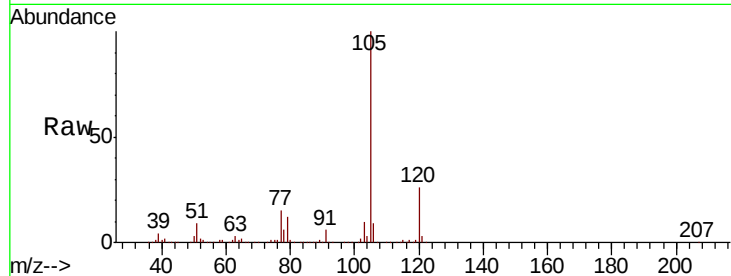
Ion Ratio Lower Upper

105 100

120 26.2 13.3 39.9

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM



#74

N-ethyl acetate

Concen: 19.640 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Tgt Ion: 43 Resp: 276648

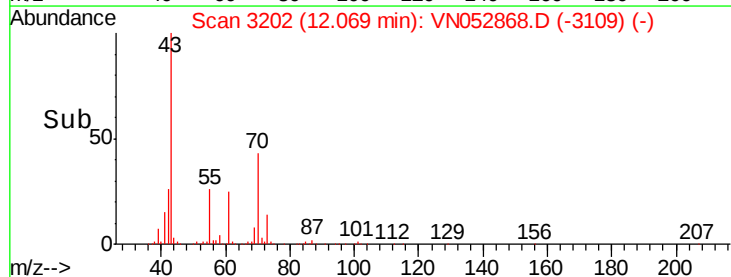
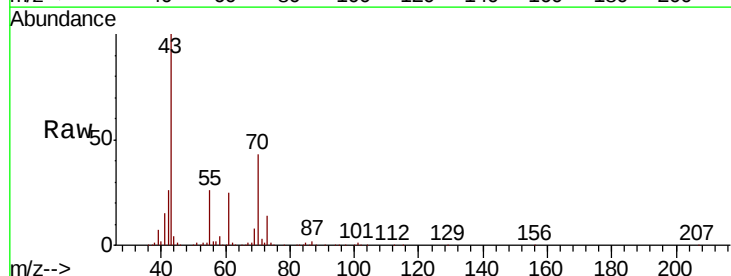
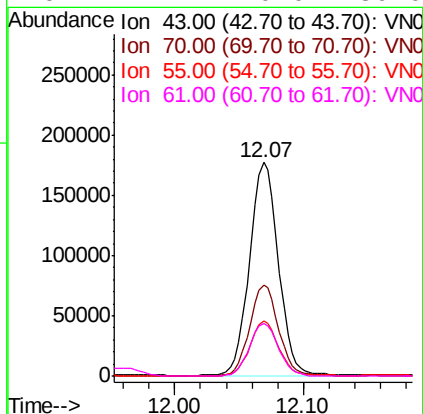
Ion Ratio Lower Upper

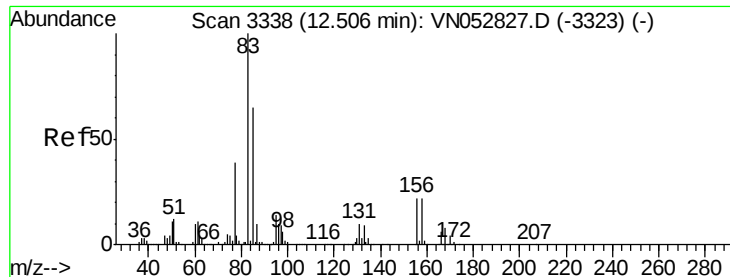
43 100

70 42.8 34.2 51.4

55 25.6 20.3 30.5

61 24.7 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.669 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

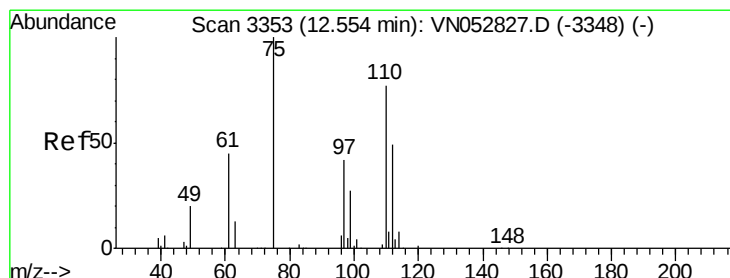
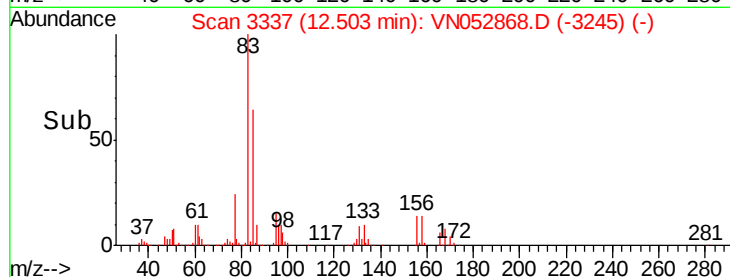
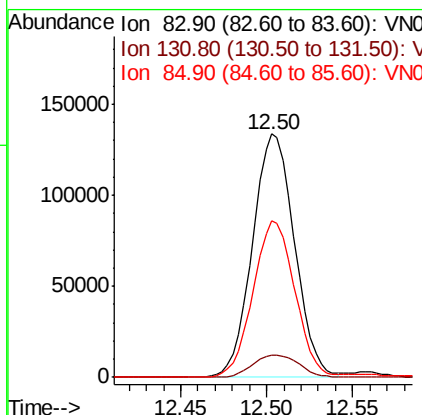
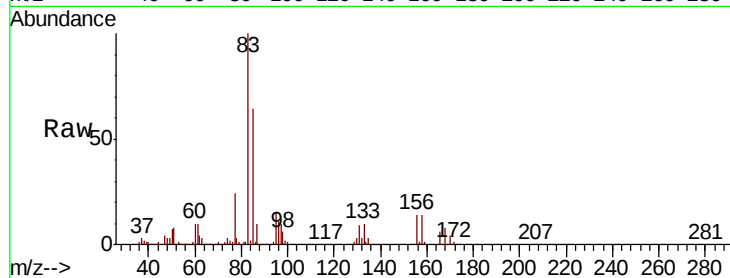
ClientSampleId :

VN1213WBSD01

Tot Ion:	83	Resp:	226169
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.2	15.6
85	64.0	32.4	97.0

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM



#76

1,2,3-Trichloropropane

Concen: 18.844 ug/l m

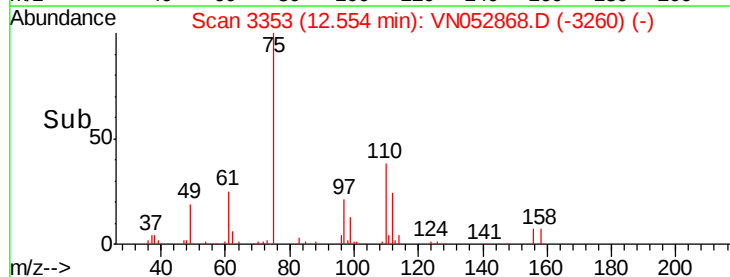
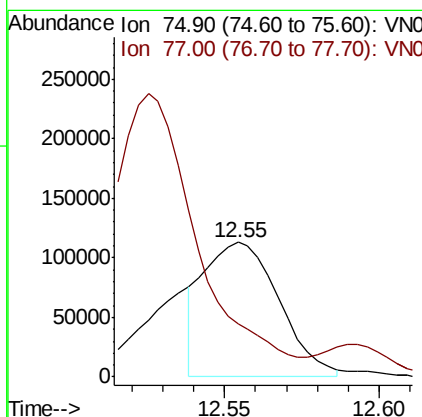
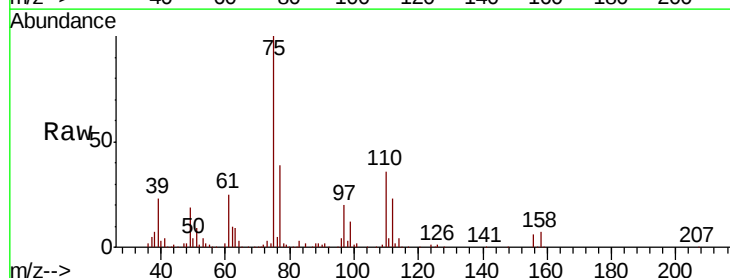
RT: 12.55 min Scan# 3353

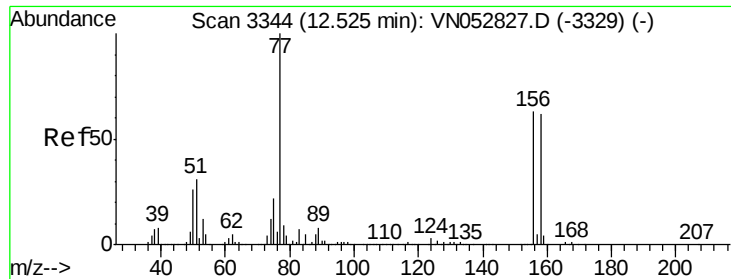
Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Tgt Ion:	75	Resp:	191044
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.144 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

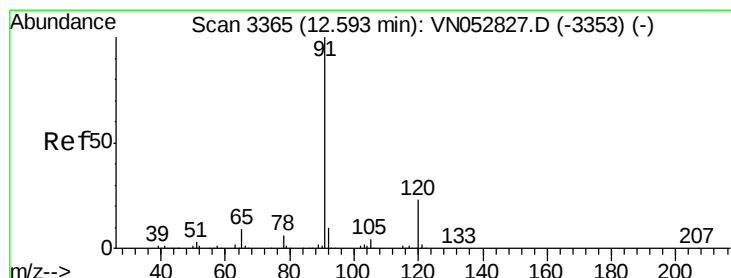
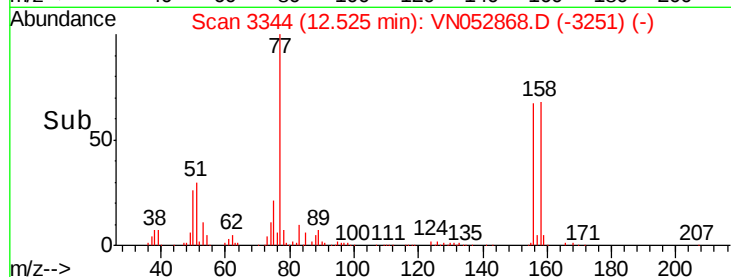
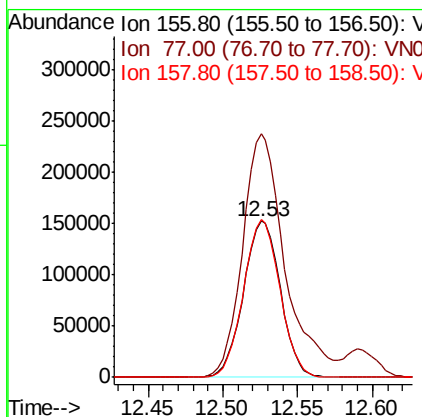
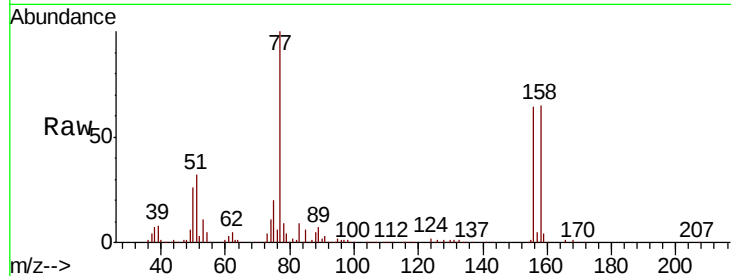
ClientSampleId :

VN1213WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		262870		
77	178.9	91.3	273.8		
158	99.3	49.0	147.2		

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM



#78

n-propylbenzene

Concen: 19.969 ug/l

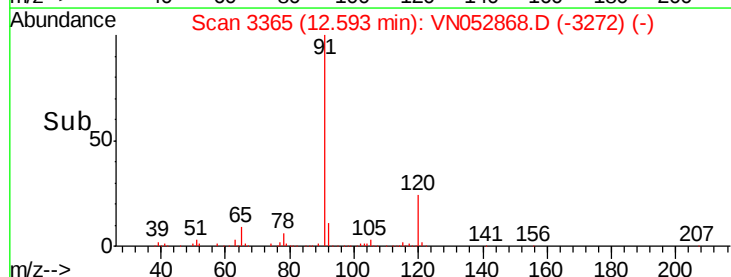
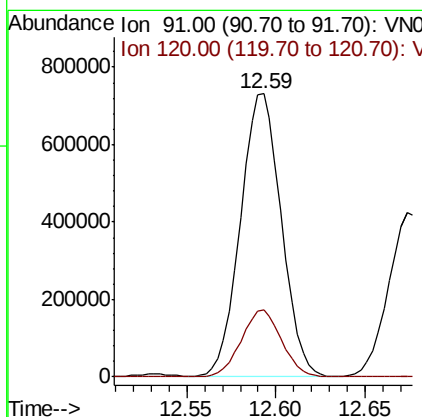
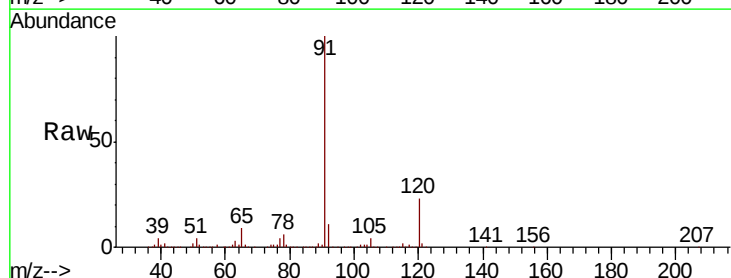
RT: 12.59 min Scan# 3365

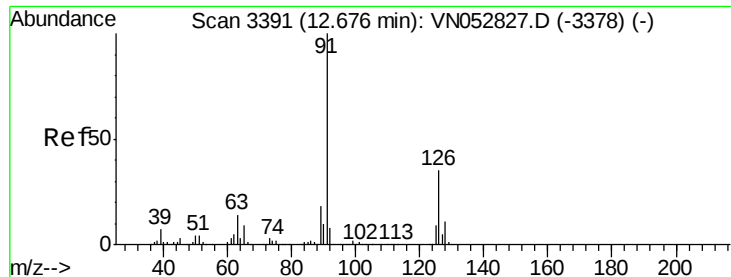
Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		1168445		
120	23.3	11.5	34.5		





#79

2-Chlorotoluene

Concen: 20.063 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

ClientSampleId :

VN1213WBSD01

Tot Ion: 91 Resp: 694047

Ion Ratio Lower Upper

91 100

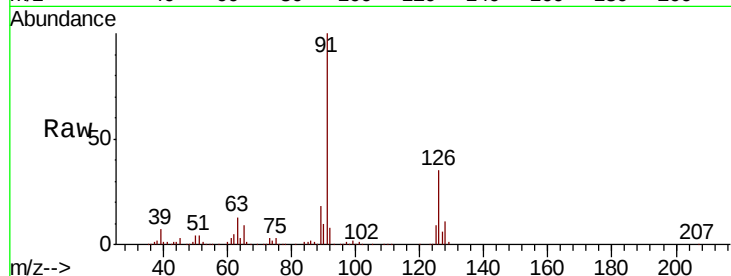
126 35.0 17.4 52.3

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:03:16 AM



Abundance Ion 91.00 (90.70 to 91.70): VN052827.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052827.D (-3378) (-)

800000

600000

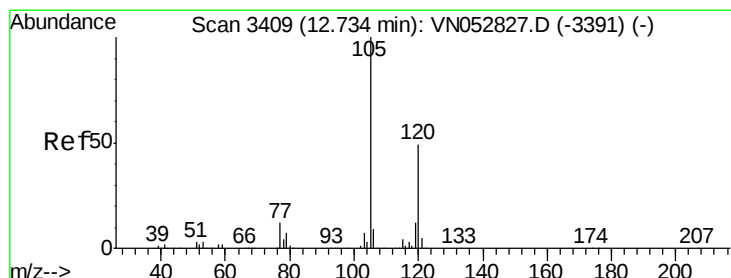
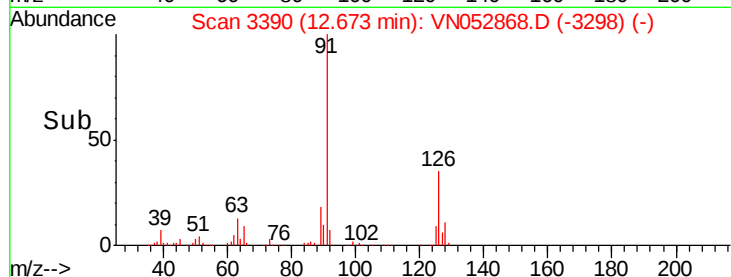
400000

200000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.300 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052868.D

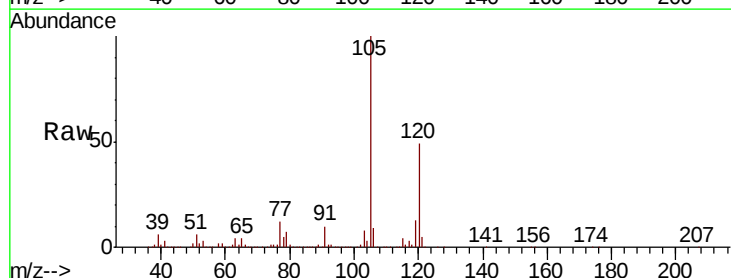
Acq: 13 Dec 2018 16:54

Tgt Ion: 105 Resp: 840762

Ion Ratio Lower Upper

105 100

120 48.9 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052827.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052827.D (-3391) (-)

600000

500000

400000

300000

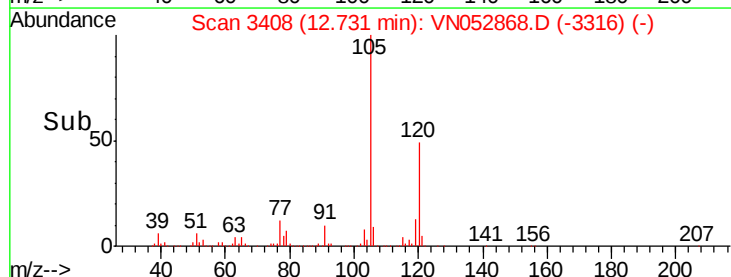
200000

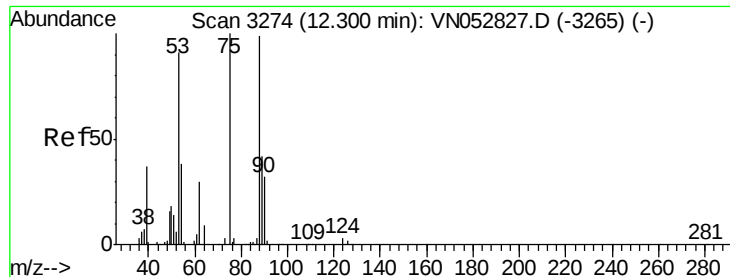
100000

0

12.70 12.75 12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 17.189 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

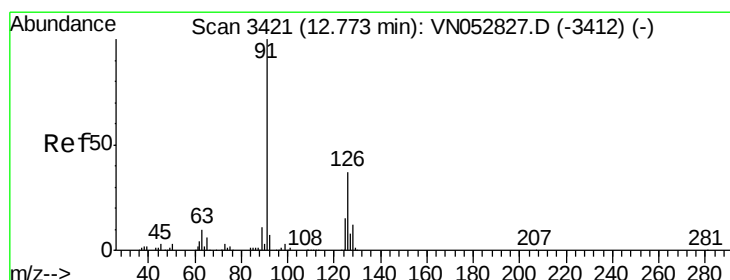
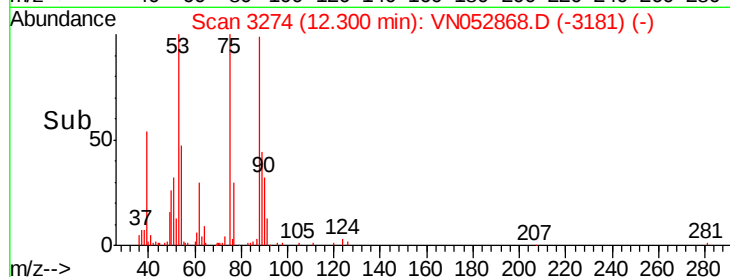
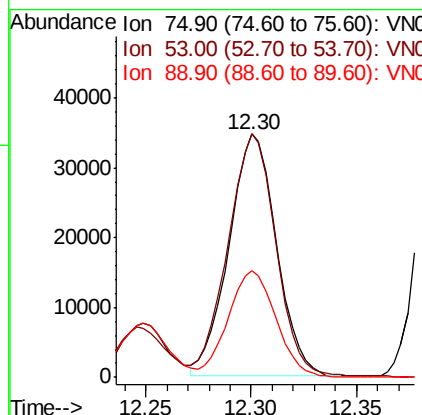
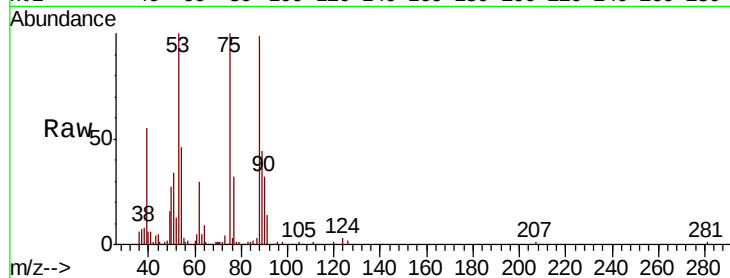
ClientSampleId :

VN1213WBSD01

Tot Ion:	75	Resp:	54246
Ion	Ratio	Lower	Upper
75	100		
53	100.7	74.7	112.1
89	44.1	36.1	54.1

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM



#82

4-Chlorotoluene

Concen: 19.743 ug/l

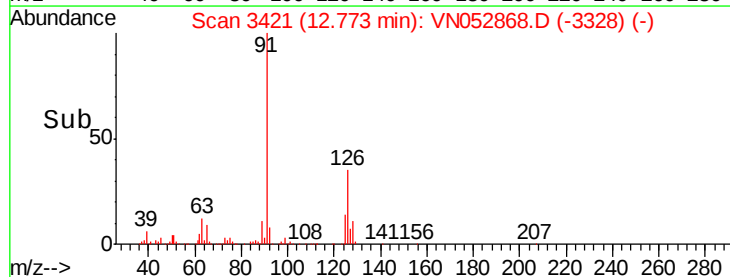
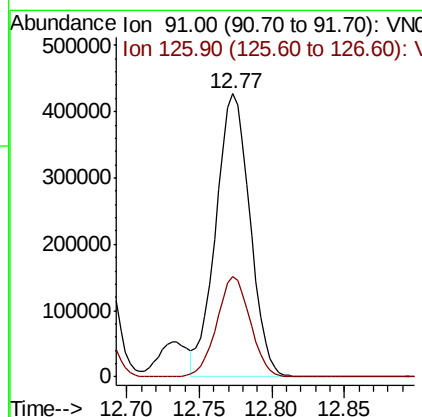
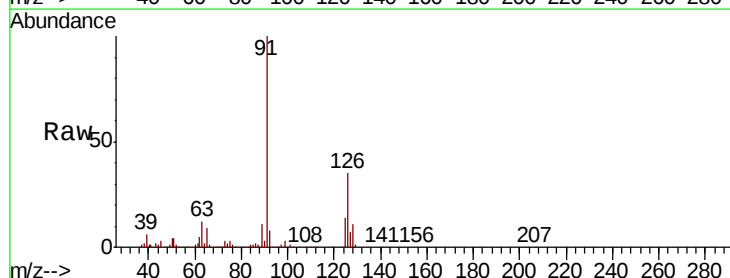
RT: 12.77 min Scan# 3421

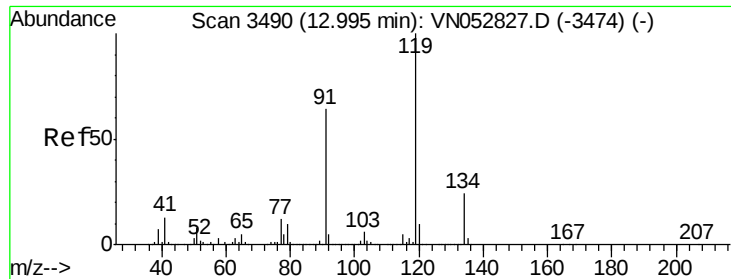
Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Tgt Ion:	91	Resp:	698286
Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.3	51.7





#83

tert-Butylbenzene

Concen: 20.329 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Instrument :

MSVOA_N

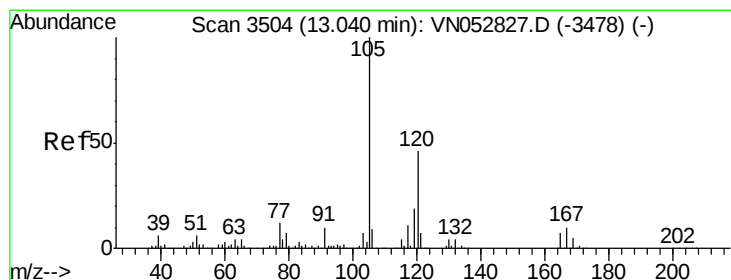
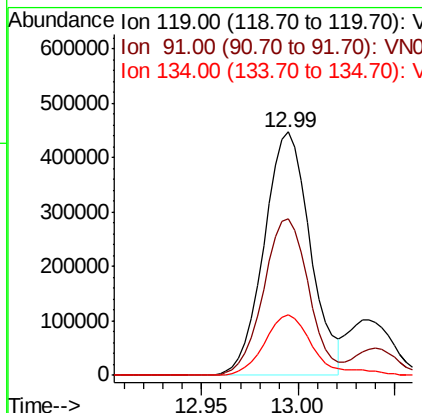
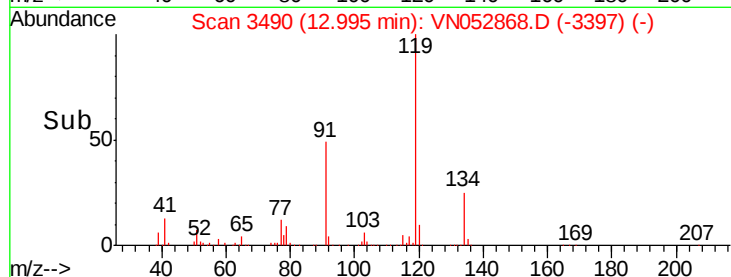
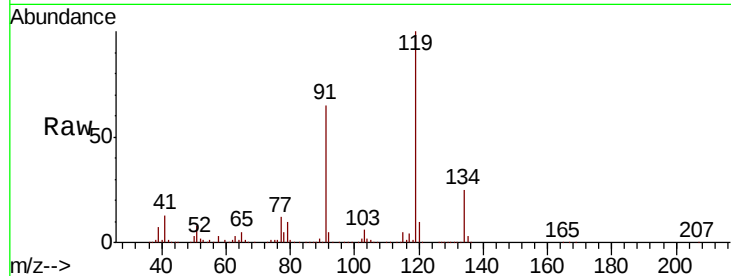
ClientSampleId :

VN1213WBSD01

Tot Ion:	119	Resp:	742742
Ion Ratio	Lower	Upper	
119	100		
91	63.7	31.9	95.5
134	26.3	12.8	38.4

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM



#84

1,2,4-Trimethylbenzene

Concen: 20.058 ug/l

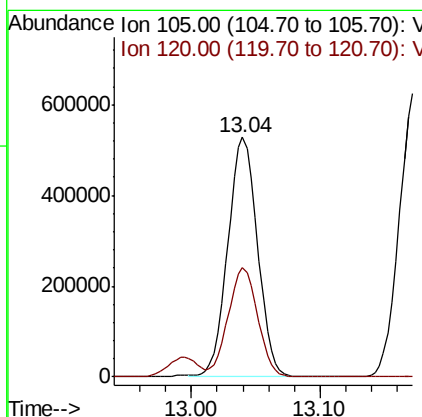
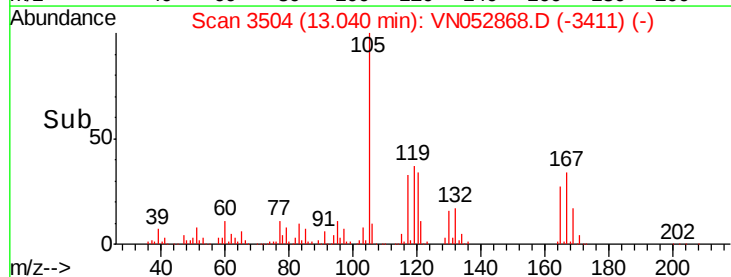
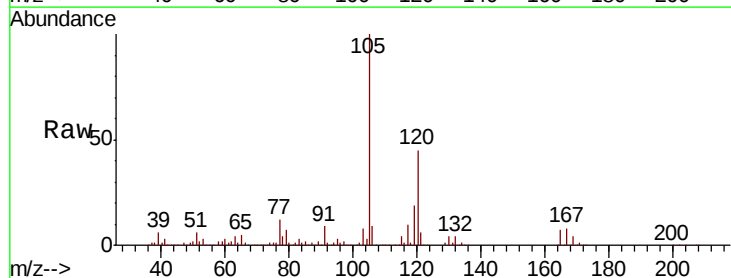
RT: 13.04 min Scan# 3504

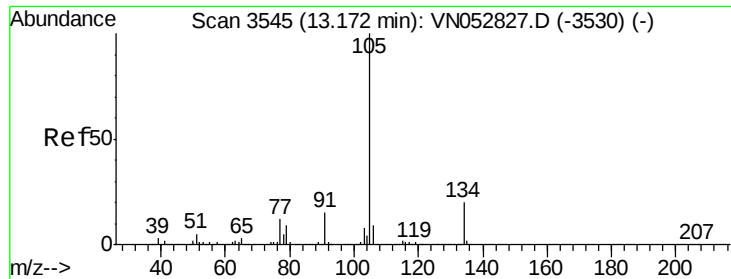
Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Tgt Ion:	105	Resp:	841018
Ion Ratio	Lower	Upper	
105	100		
120	45.7	22.9	68.8





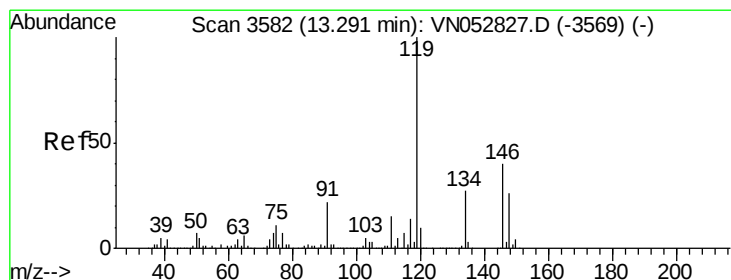
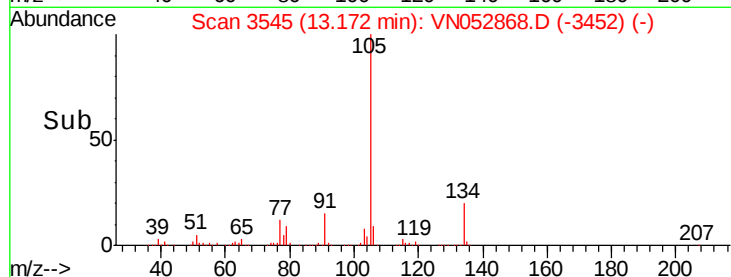
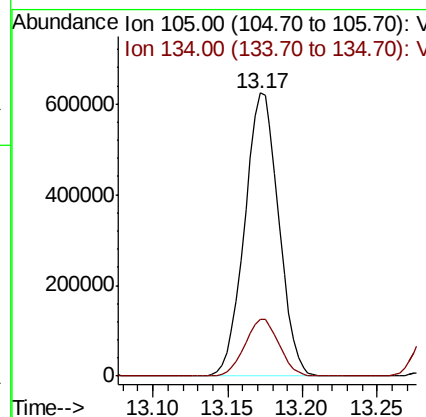
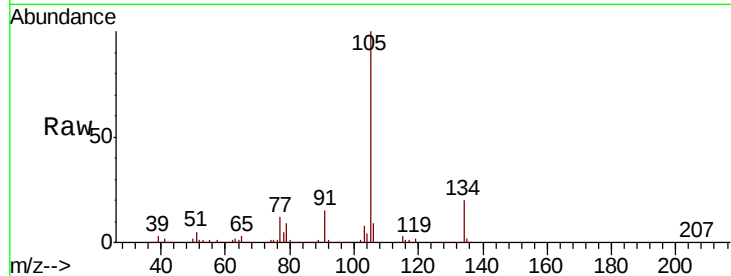
#85
 sec-Butylbenzene
 Concen: 19.954 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.3

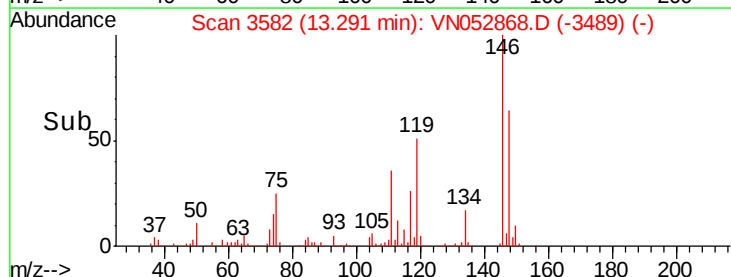
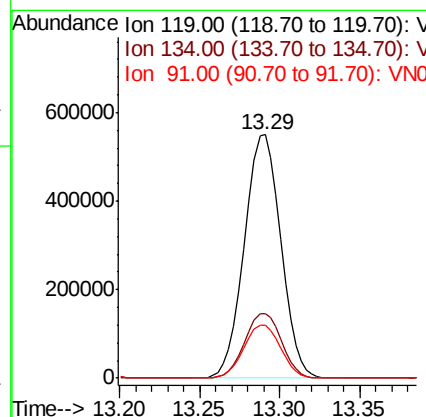
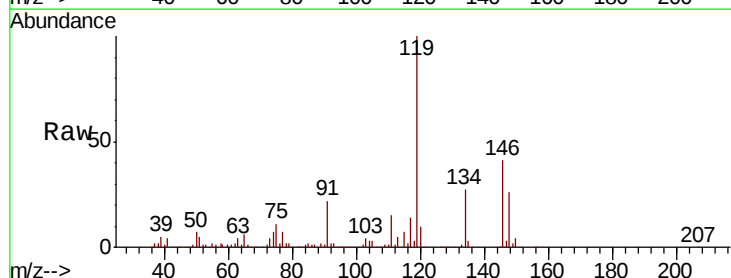
Manual Integrations
 APPROVED

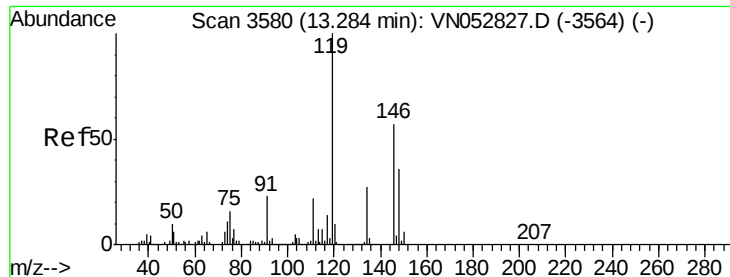
MMDadoda
 12/14/2018 9:03:16 AM



#86
 p-Isopropyltoluene
 Concen: 19.887 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.4	40.2
91	22.1	11.1	33.3





#87

1,3-Dichlorobenzene

Concen: 19.997 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN052868.D

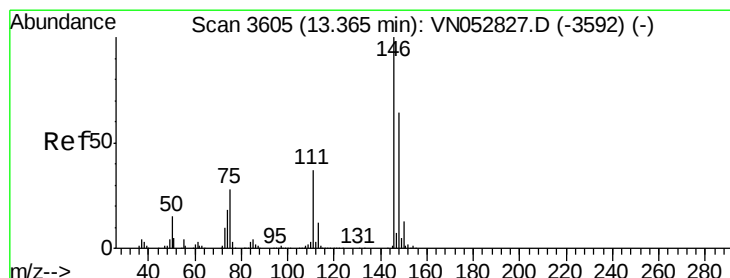
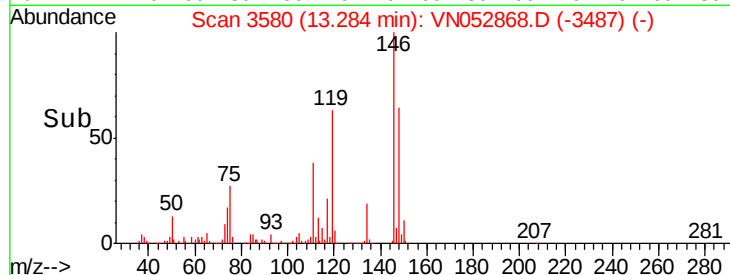
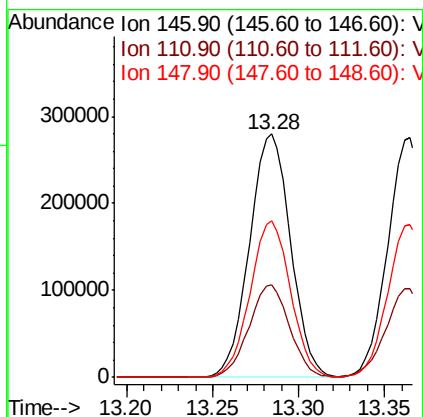
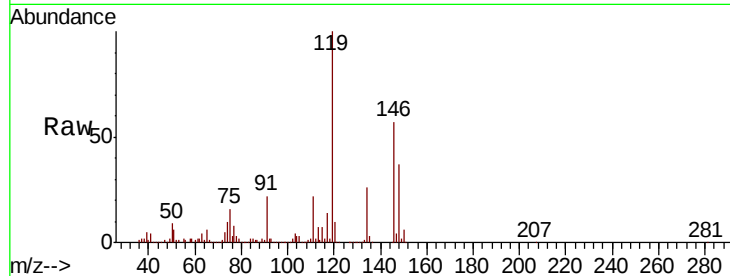
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.1	57.1
148	63.2	32.0	96.0

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM



#88

1,4-Dichlorobenzene

Concen: 19.598 ug/l

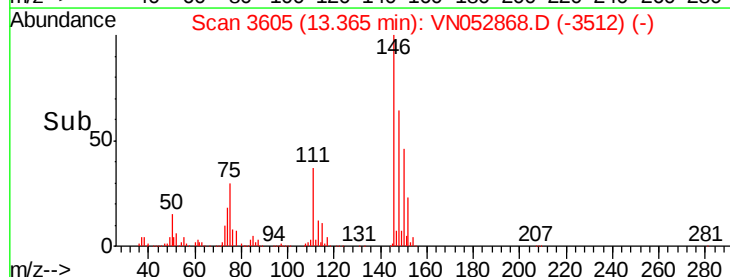
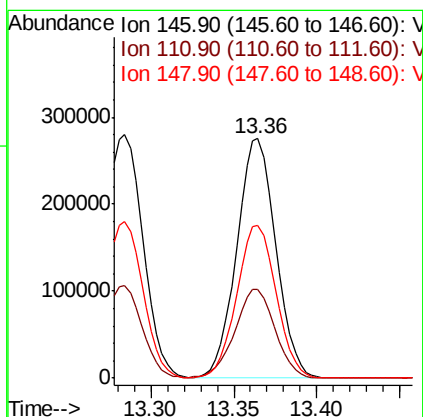
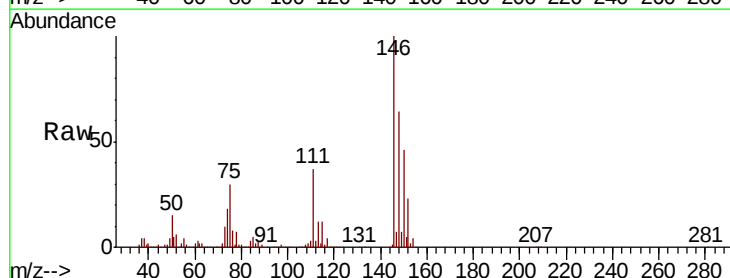
RT: 13.36 min Scan# 3605

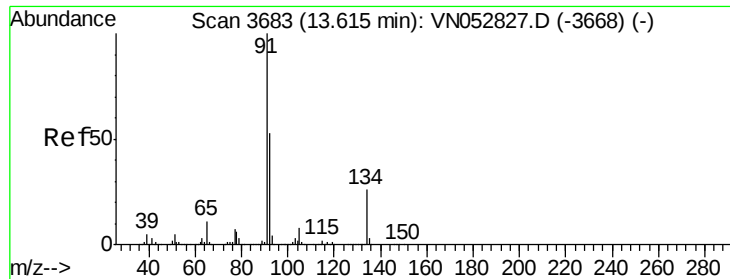
Delta R.T. 0.00 min

Lab File: VN052868.D

Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	18.6	55.8
148	64.6	32.1	96.5





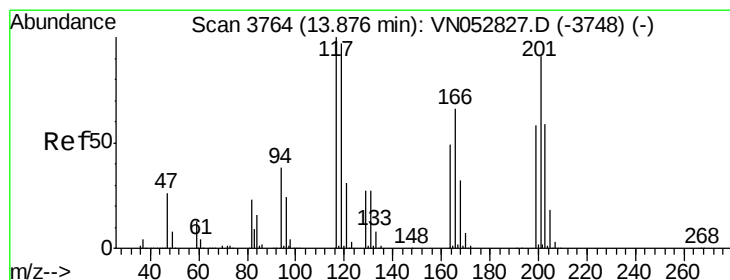
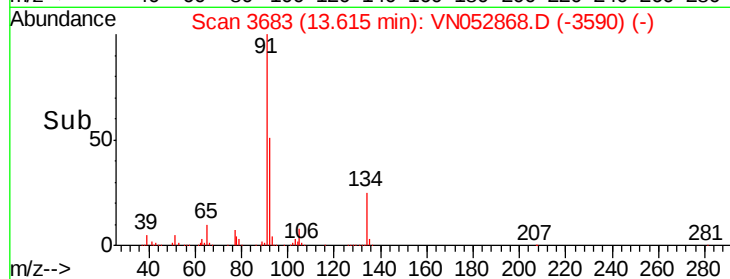
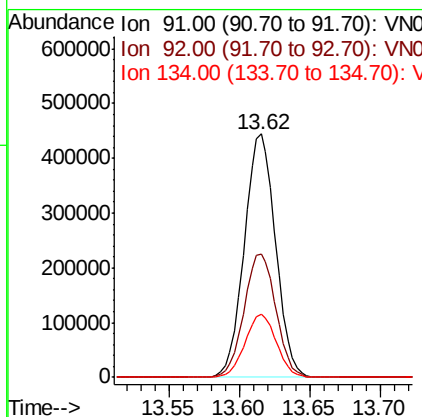
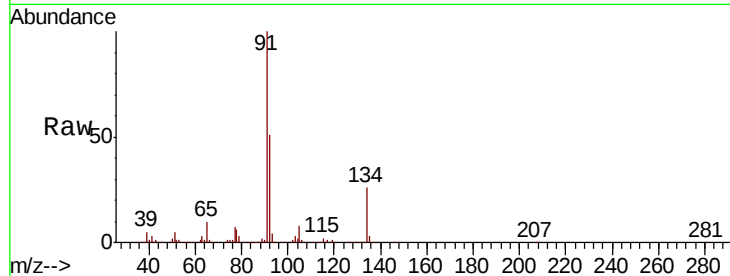
#89
n-Butylbenzene
Concen: 19.103 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.7	26.3	78.9
134	26.2	13.3	39.8

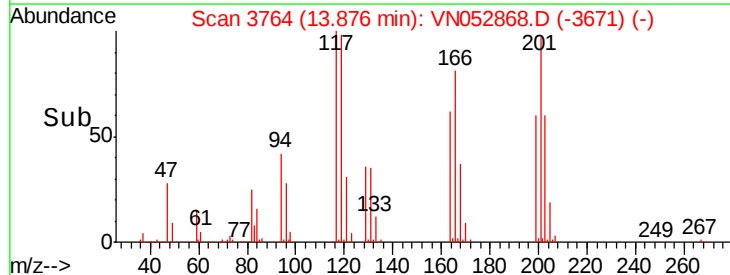
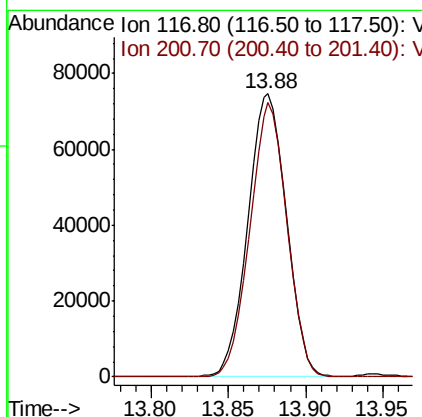
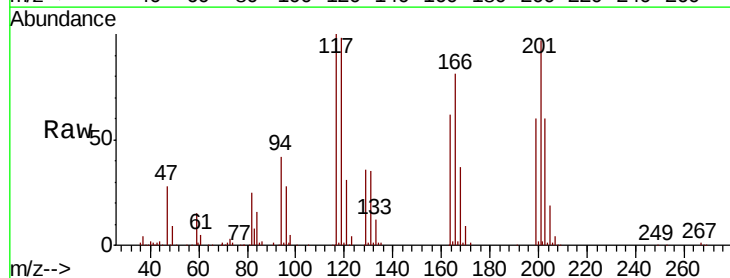
Manual Integrations
APPROVED

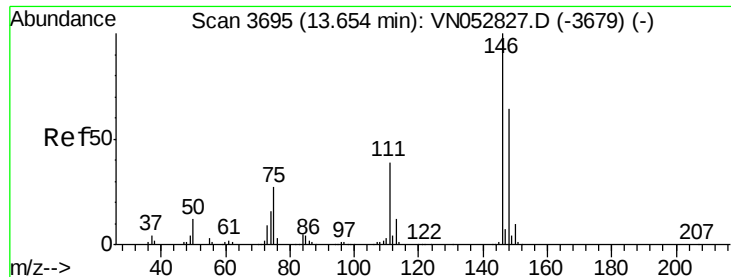
MMDadoda
12/14/2018 9:03:16 AM



#90
Hexachloroethane
Concen: 18.073 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.6	45.7	137.1





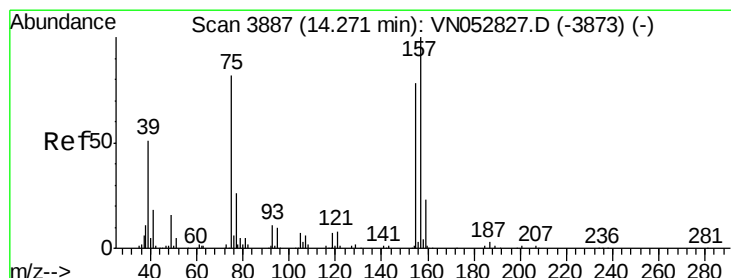
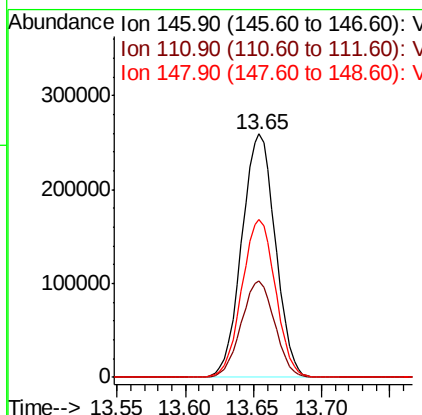
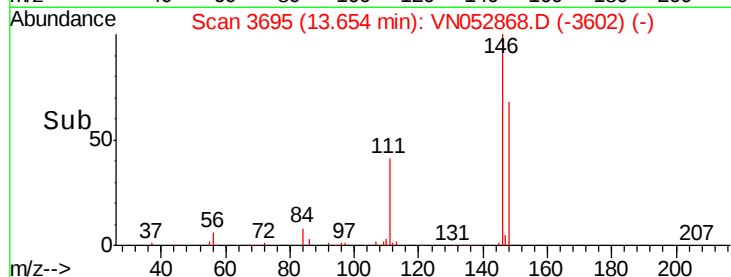
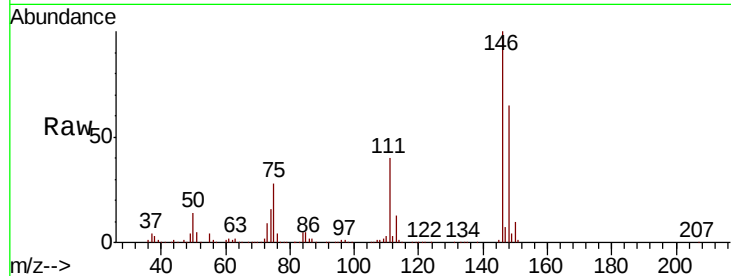
#91
 1,2-Dichlorobenzene
 Concen: 19.809 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.7	59.0
148	64.9	32.0	96.0

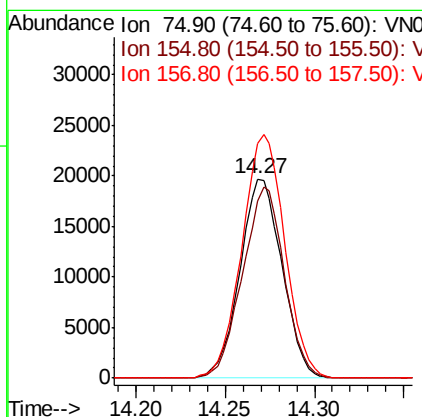
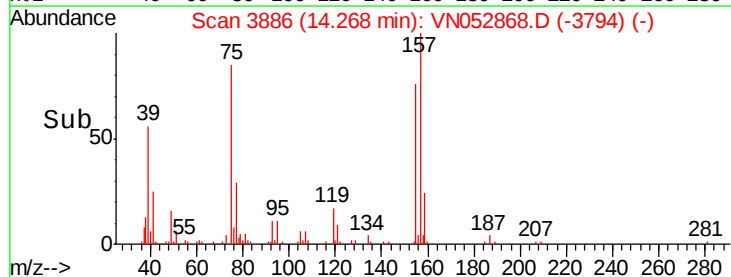
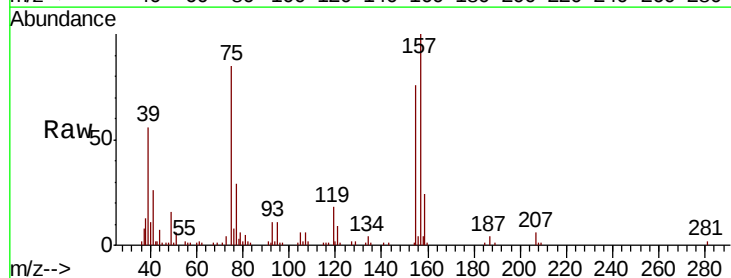
Manual Integrations
 APPROVED

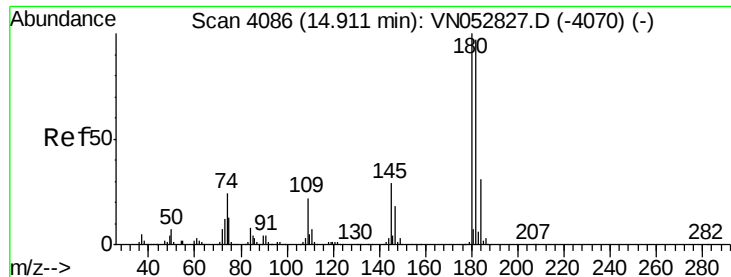
MMDadoda
 12/14/2018 9:03:16 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.767 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.1	48.2	144.6
157	124.4	61.2	183.5





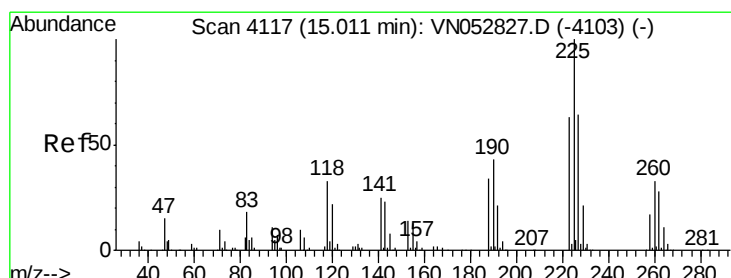
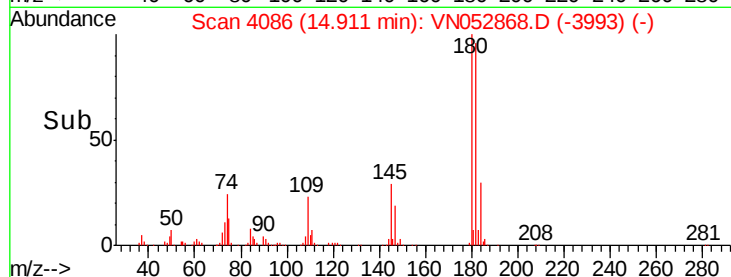
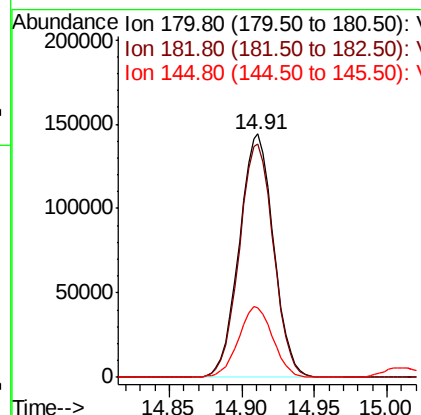
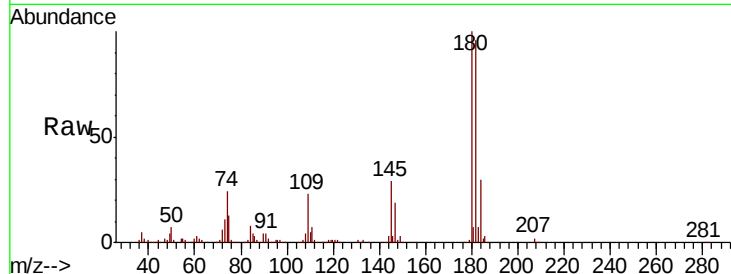
#93
 1,2,4-Trichlorobenzene
 Concen: 19.498 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	236433		
182	95.9	47.8	143.3	
145	29.2	14.2	42.6	

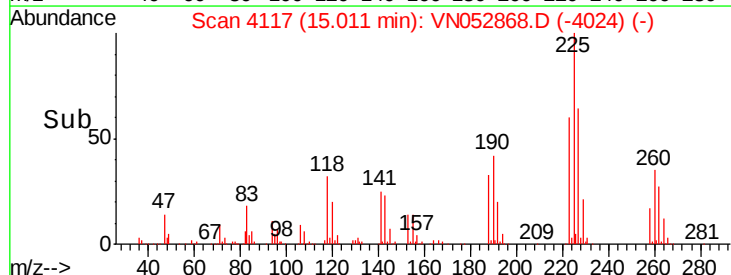
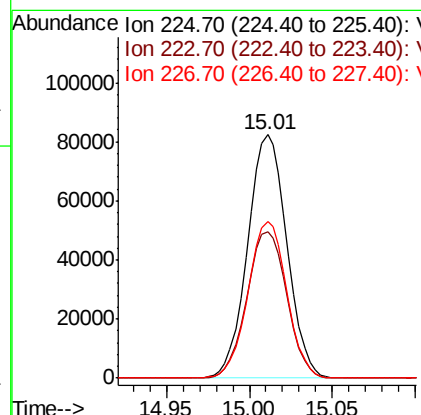
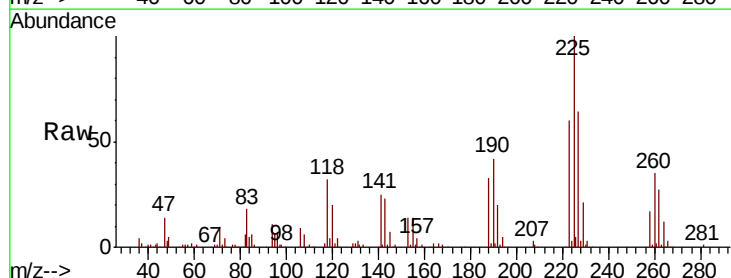
Manual Integrations
 APPROVED

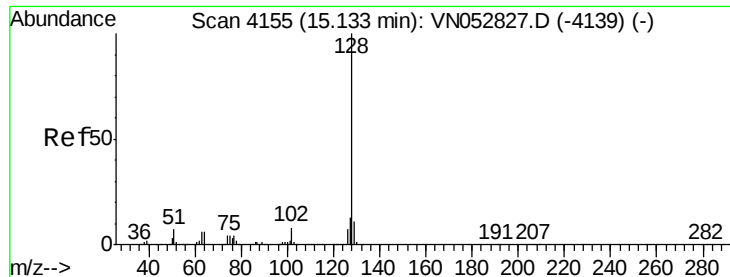
MMDadoda
 12/14/2018 9:03:16 AM



#94
 Hexachlorobutadiene
 Concen: 19.361 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052868.D
 Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	135885		
223	61.3	31.5	94.5	
227	63.4	31.9	95.7	





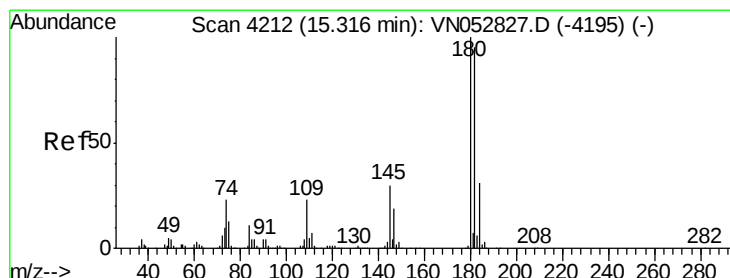
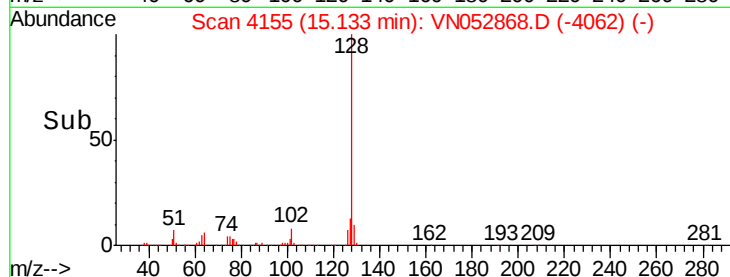
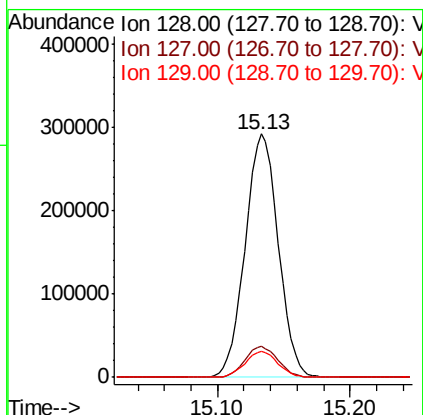
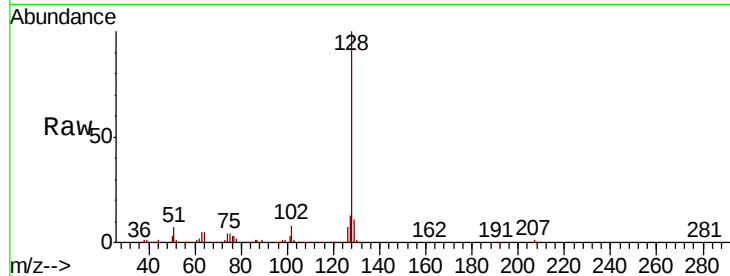
#95
Naphthalene
Concen: 20.214 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Instrument :
MSVOA_N
ClientSampleId :
VN1213WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	10.6	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:03:16 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.557 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052868.D
Acq: 13 Dec 2018 16:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.9	143.7
145	30.8	15.0	45.0

