

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121318\
 Data File : VN052861.D
 Acq On : 13 Dec 2018 13:47
 Operator : MD\SY
 Sample : VN1213MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213MBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 9:02:32 AM

Quant Time: Dec 14 03:02:27 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	1070999	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1642591	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1465450	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	680843	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	552960	48.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.12%	
35) Dibromofluoromethane	7.59	113	461812	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
50) Toluene-d8	10.09	98	2005935	50.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.92%	
62) 4-Bromofluorobenzene	12.40	95	682910	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	202972	18.410	ug/l	99
3) Chloromethane	2.06	50	240851	18.202	ug/l	100
4) Vinyl Chloride	2.19	62	249209	18.825	ug/l	98
5) Bromomethane	2.58	94	149583	18.320	ug/l	99
6) Chloroethane	2.71	64	141347	18.064	ug/l	100
7) Trichlorofluoromethane	3.03	101	314171	19.142	ug/l	98
8) Diethyl Ether	3.41	74	122502	20.462	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	194503	19.122	ug/l	98
10) Methyl Iodide	3.96	142	271988	19.094	ug/l	99
11) Tert butyl alcohol	4.78	59	57032	89.631	ug/l	97
12) 1,1-Dichloroethene	3.74	96	192053	19.504	ug/l	98
13) Acrolein	3.61	56	62869	104.943	ug/l	98
14) Allyl chloride	4.33	41	316381	19.672	ug/l	94
15) Acrylonitrile	4.99	53	343600	96.255	ug/l	99
16) Acetone	3.82	43	222857	87.135	ug/l	95
17) Carbon Disulfide	4.06	76	533809	17.647	ug/l	98
18) Methyl Acetate	4.33	43	173652	18.500	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	529774	19.818	ug/l	98
20) Methylene Chloride	4.56	84	216957	18.850	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	204826	19.200	ug/l	98
22) Diisopropyl ether	5.95	45	670828	19.551	ug/l	99
23) Vinyl Acetate	5.90	43	1980460	97.003	ug/l	99
24) 1,1-Dichloroethane	5.85	63	390814	19.752	ug/l	99
25) 2-Butanone	6.83	43	369018	92.987	ug/l	98
26) 2,2-Dichloropropane	6.83	77	260832	17.901	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	238802	19.723	ug/l	99
28) Bromochloromethane	7.20	49	171055	19.252	ug/l	96
29) Tetrahydrofuran	7.21	42	259968	95.956	ug/l	99
30) Chloroform	7.37	83	376531	19.515	ug/l	100
31) Cyclohexane	7.66	56	381670	19.424	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	312961	19.386	ug/l	99
36) 1,1-Dichloropropene	7.80	75	299609	19.807	ug/l	99
37) Ethyl Acetate	6.93	43	177996	19.588	ug/l	99
38) Carbon Tetrachloride	7.78	117	264744	19.015	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121318\
 Data File : VN052861.D
 Acq On : 13 Dec 2018 13:47
 Operator : MD\SY
 Sample : VN1213MBSD01
 Misc : 5.00µl/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1213MBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 9:02:32 AM

Quant Time: Dec 14 03:02:27 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	381130	20.533	ug/l	99
40) Benzene	8.04	78	905606	19.948	ug/l	100
41) Methacrylonitrile	7.18	41	96951	19.256	ug/l	97
42) 1,2-Dichloroethane	8.13	62	268421	19.639	ug/l	99
43) Isopropyl Acetate	8.16	43	327989	17.605	ug/l	99
44) Trichloroethene	8.84	130	242751	19.796	ug/l	97
45) 1,2-Dichloropropane	9.12	63	241171	20.282	ug/l	98
46) Dibromomethane	9.21	93	134436	19.494	ug/l	98
47) Bromodichloromethane	9.40	83	280745	19.632	ug/l	98
48) Methyl methacrylate	9.20	41	156739	19.184	ug/l	98
49) 1,4-Dioxane	9.20	88	36321	391.646	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	841256	98.475	ug/l	100
52) Toluene	10.16	92	555132	20.189	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	271758	18.885	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	331101	19.308	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	196214	19.990	ug/l	99
56) Ethyl methacrylate	10.43	69	248996	19.767	ug/l	99
57) 1,3-Dichloropropane	10.71	76	336549	19.995	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	700321	99.639	ug/l	99
59) 2-Hexanone	10.75	43	567380	96.912	ug/l	99
60) Dibromochloromethane	10.90	129	198688	18.730	ug/l	100
61) 1,2-Dibromoethane	11.01	107	190121	19.596	ug/l	99
64) Tetrachloroethene	10.63	164	249891	19.840	ug/l	98
65) Chlorobenzene	11.43	112	607633	19.986	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	205579	19.442	ug/l	99
67) Ethyl Benzene	11.51	91	1047694	20.067	ug/l	100
68) m/p-Xylenes	11.62	106	793225	40.461	ug/l	100
69) o-Xylene	11.95	106	393322	20.546	ug/l	98
70) Styrene	11.96	104	630564	20.490	ug/l	99
71) Bromoform	12.13	173	129798	18.069	ug/l #	98
73) Isopropylbenzene	12.25	105	1032039	20.302	ug/l	100
74) N-amyl acetate	12.07	43	276749	19.830	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	216657	19.017	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	190270m	18.942	ug/l	
77) Bromobenzene	12.53	156	284407	21.997	ug/l	89
78) n-propylbenzene	12.59	91	1172799	20.229	ug/l	100
79) 2-Chlorotoluene	12.68	91	688836	20.098	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	828812	20.197	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	53631	17.152	ug/l	95
82) 4-Chlorotoluene	12.77	91	692095	19.750	ug/l	99
83) tert-Butylbenzene	12.99	119	731229	20.200	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	831797	20.022	ug/l	100
85) sec-Butylbenzene	13.17	105	978848	19.967	ug/l	99
86) p-Isopropyltoluene	13.29	119	852436	20.070	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	451923	19.669	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	448096	19.693	ug/l	98
89) n-Butylbenzene	13.62	91	704738	19.710	ug/l	99
90) Hexachloroethane	13.88	117	125835	17.693	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	437915	19.813	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	32843	19.124	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121318\
Data File : VN052861.D
Acq On : 13 Dec 2018 13:47
Operator : MD\SY
Sample : VN1213MBSD01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 11 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBSD01

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 AM

Quant Time: Dec 14 03:02:27 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	240057	19.981	ug/l	99
94) Hexachlorobutadiene	15.01	225	134095	19.283	ug/l	99
95) Naphthalene	15.13	128	515445	20.715	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	222890	20.219	ug/l	98

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

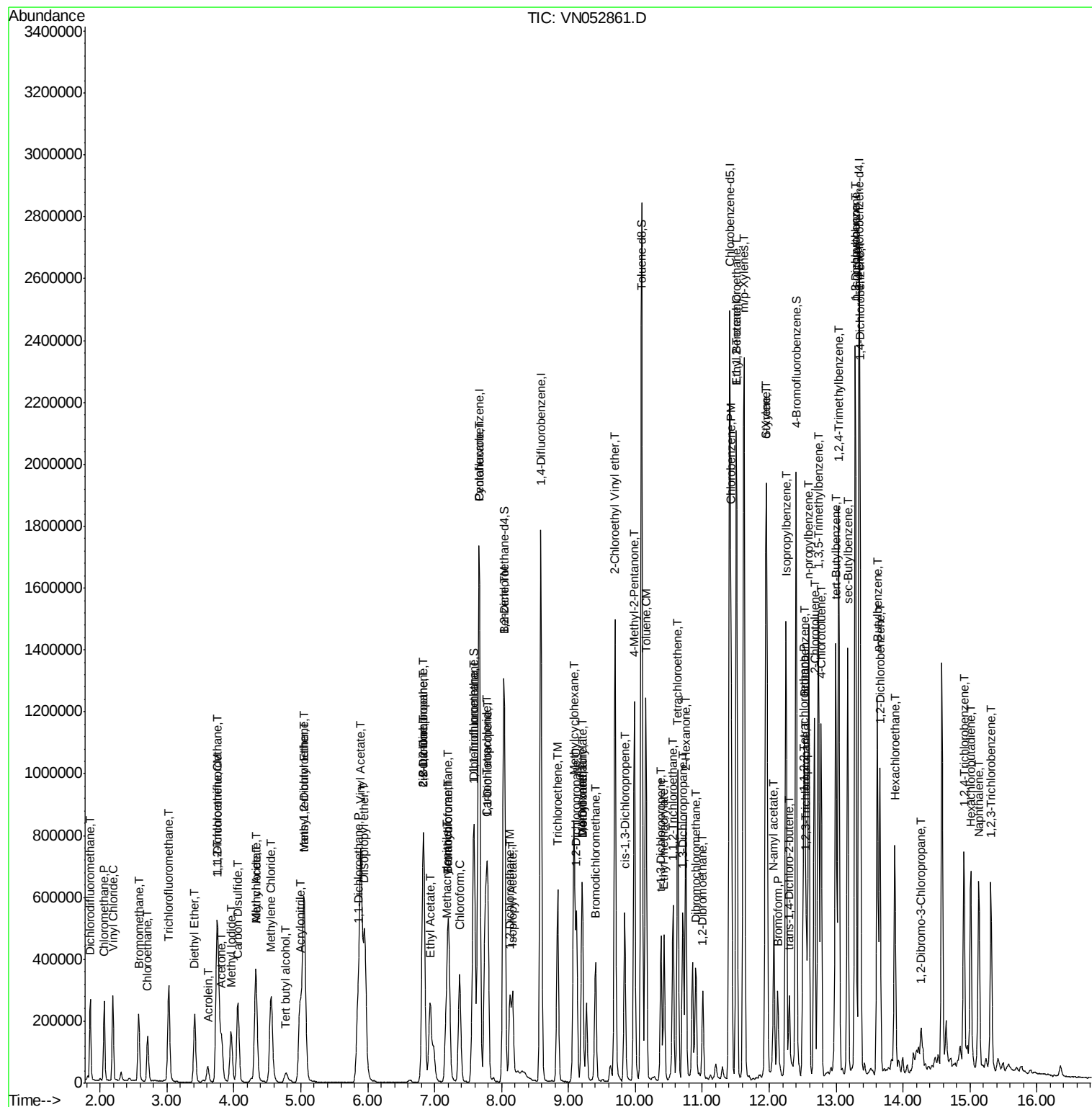
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121318\
 Data File : VN052861.D
 Acq On : 13 Dec 2018 13:47
 Operator : MD\SY
 Sample : VN1213MBS01
 Misc : 5.00uL/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 11 Sample Multiplier: 28

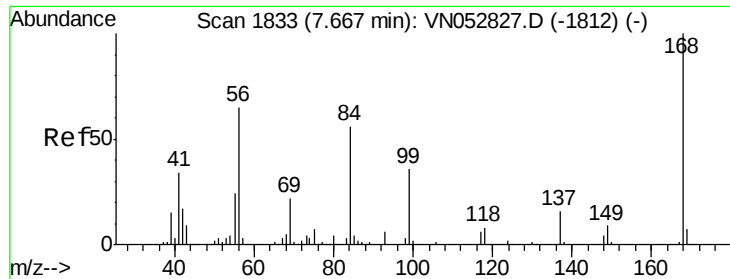
Instrument :
 MSVOA_N
 Client Sample ID :
 VN1213MBS01

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 9:02:32 AM

Quant Time: Dec 14 03:02:27 2018
 Quant Method : Z:\V0ASRV\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: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

VN1213MBS01

Tot Ion:168 Resp: 1070999

Ion Ratio Lower Upper

168 100

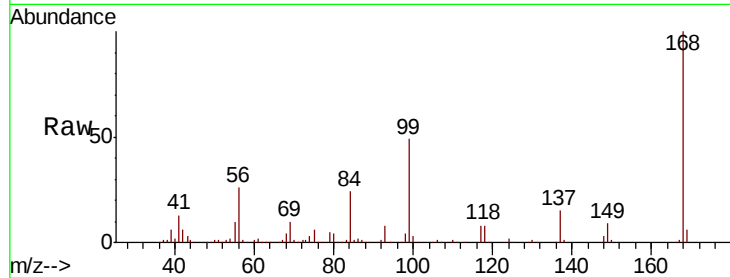
99 49.2 40.2 60.2

Manual Integrations

APPROVED

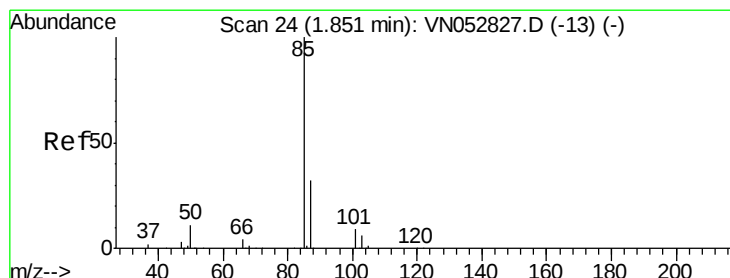
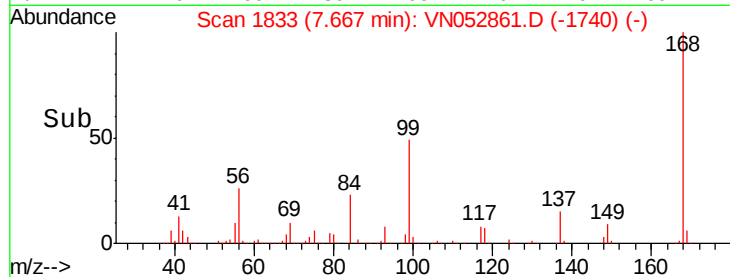
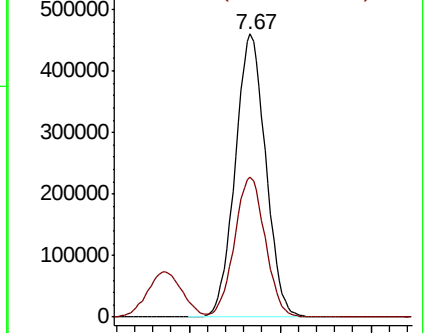
MMDadoda

12/14/2018 9:02:32 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 18.410 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052861.D

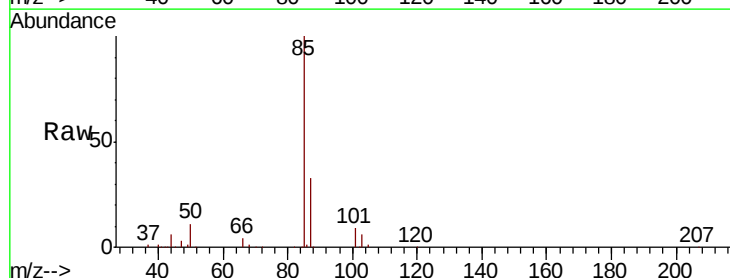
Acq: 13 Dec 2018 13:47

Tgt Ion: 85 Resp: 202972

Ion Ratio Lower Upper

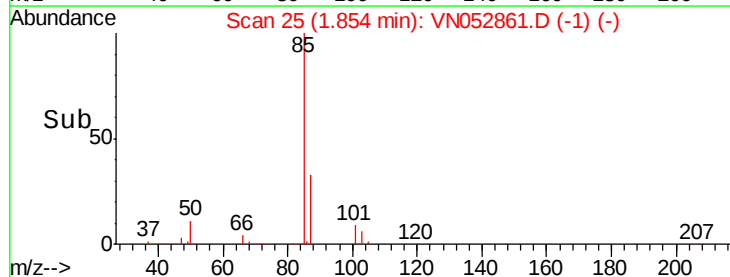
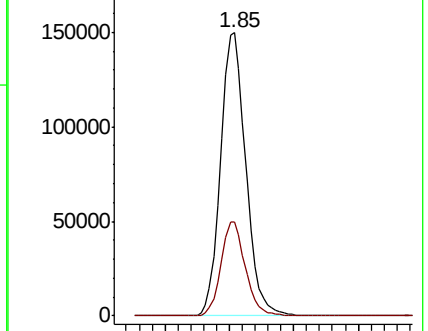
85 100

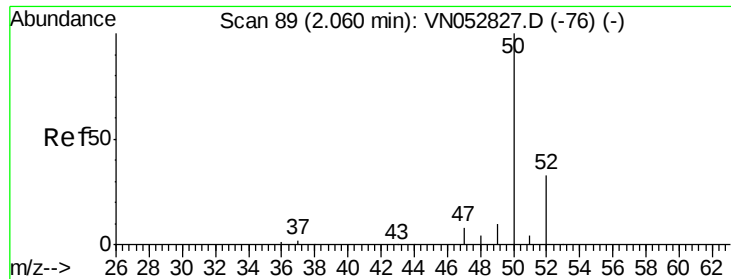
87 33.3 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 18.202 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

VN1213MBS01

Tot Ion: 50 Resp: 240851

Ion Ratio Lower Upper

50 100

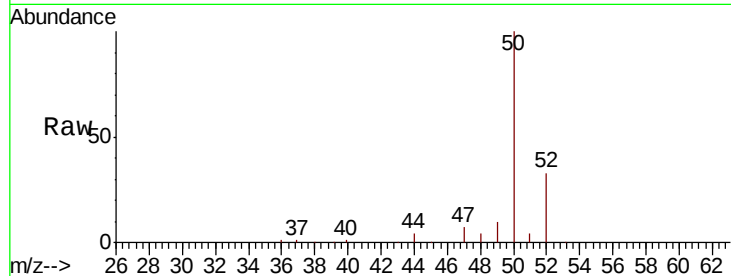
52 32.9 26.2 39.4

Manual Integrations

APPROVED

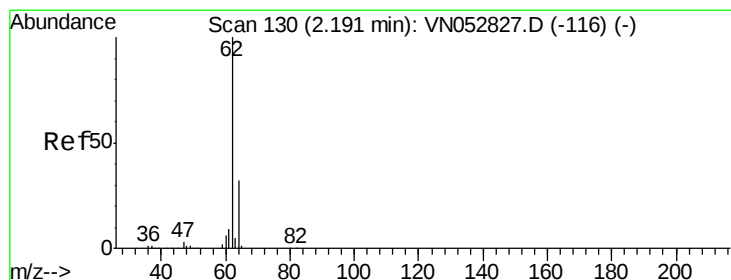
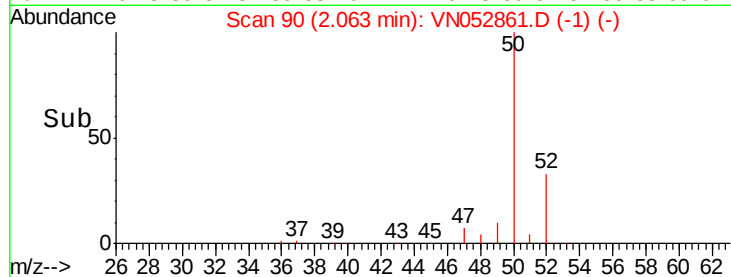
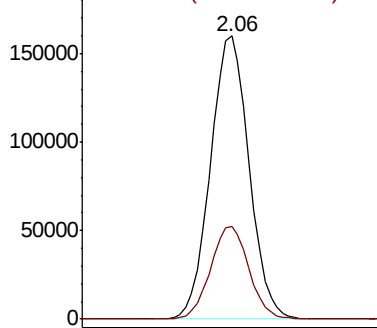
MMDadoda

12/14/2018 9:02:32 AM



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 18.825 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052861.D

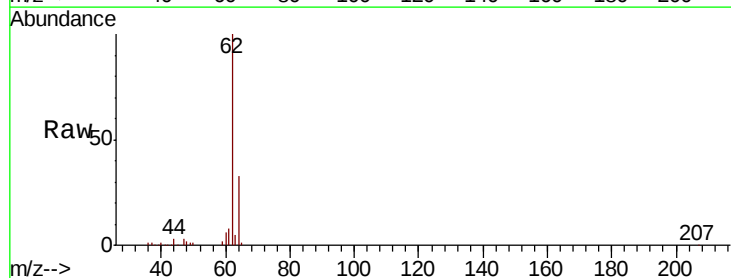
Acq: 13 Dec 2018 13:47

Tgt Ion: 62 Resp: 249209

Ion Ratio Lower Upper

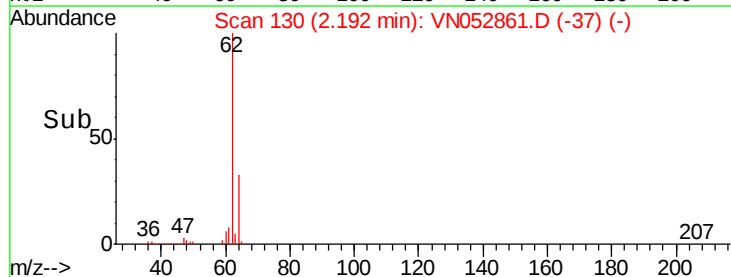
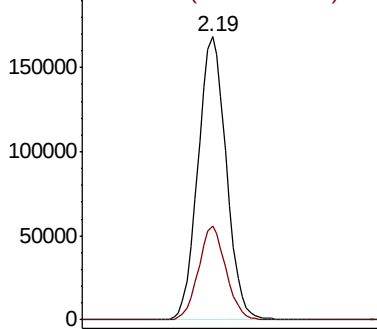
62 100

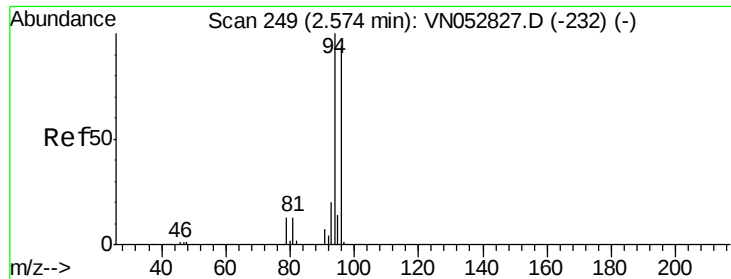
64 33.1 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 18.320 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

VN1213MBSD01

Tot Ion: 94 Resp: 149583

Ion Ratio Lower Upper

94 100

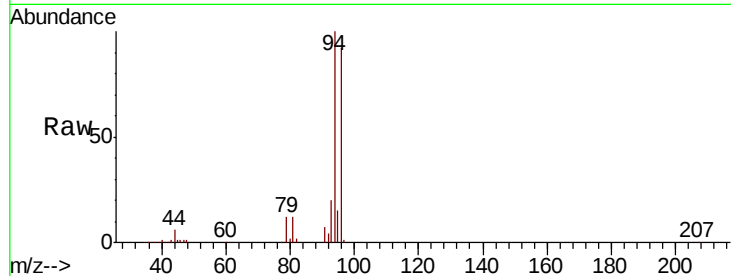
96 92.4 75.0 112.4

Manual Integrations

APPROVED

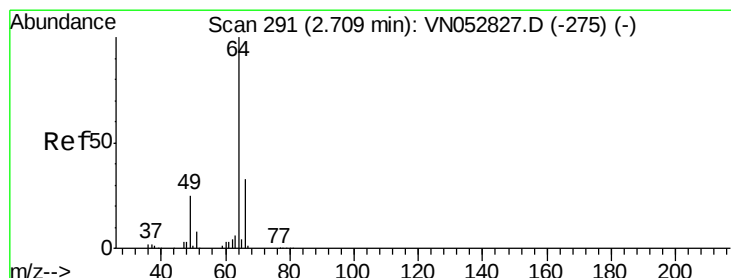
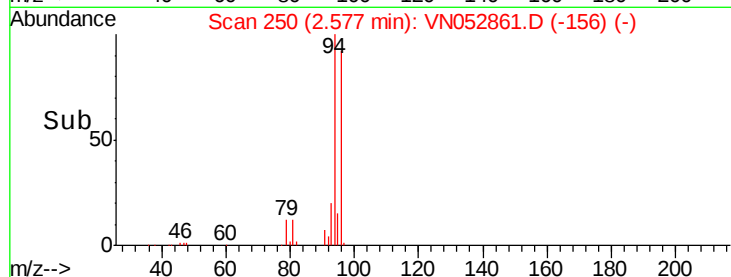
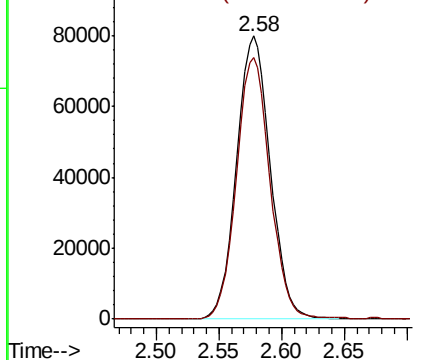
MMDadoda

12/14/2018 9:02:32 AM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 18.064 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052861.D

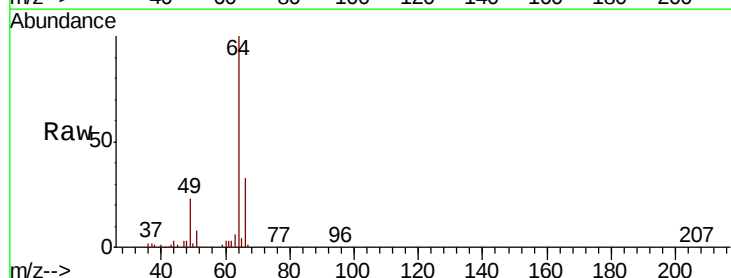
Acq: 13 Dec 2018 13:47

Tgt Ion: 64 Resp: 141347

Ion Ratio Lower Upper

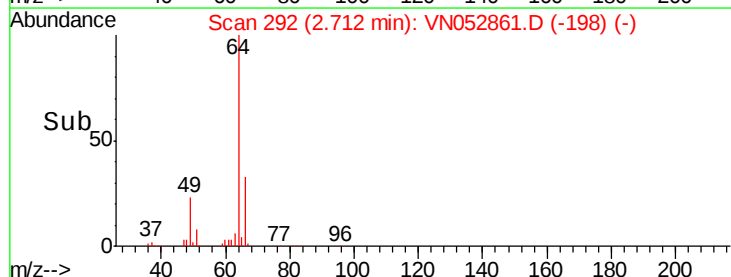
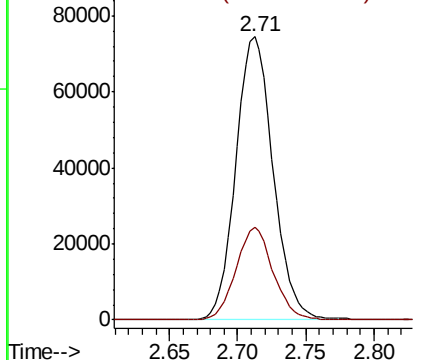
64 100

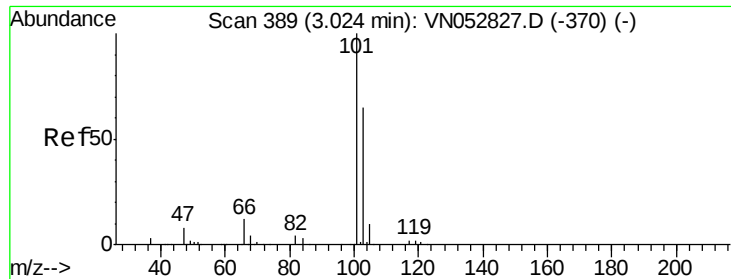
66 32.5 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

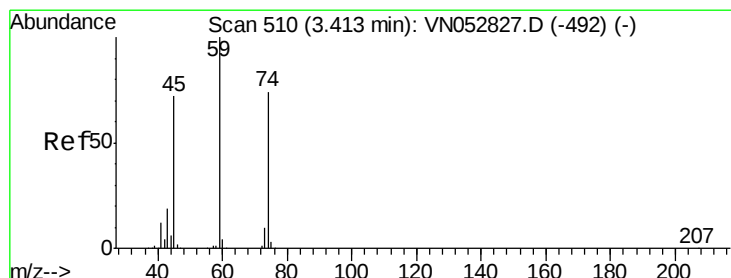
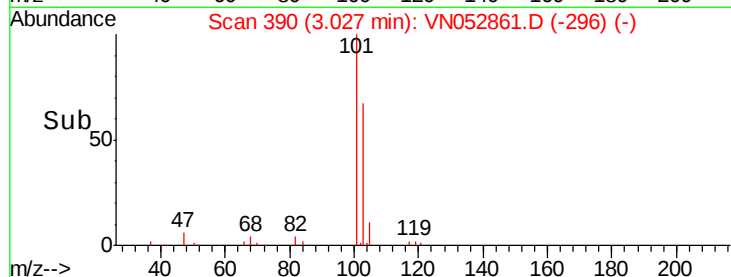
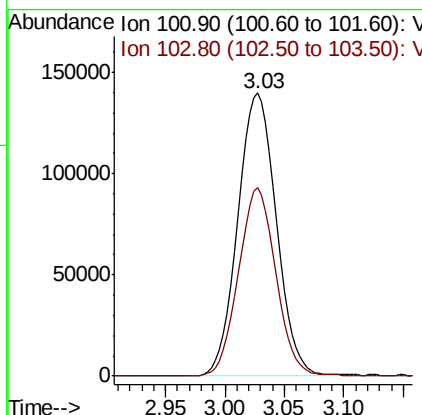
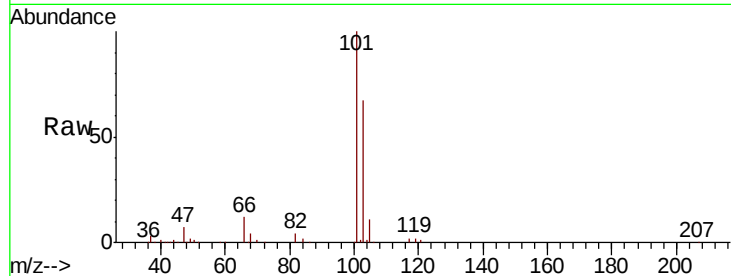
Trichlorofluoromethane
 Concen: 19.142 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213MBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.6	51.8	77.6

Manual Integrations
 APPROVED

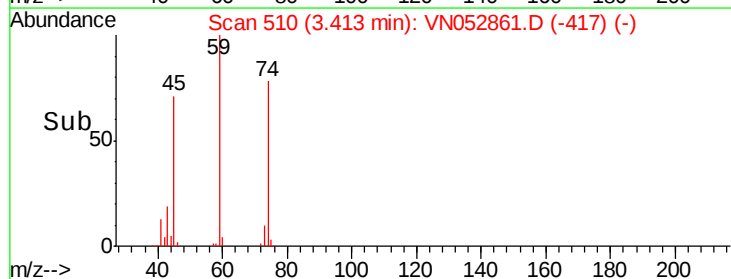
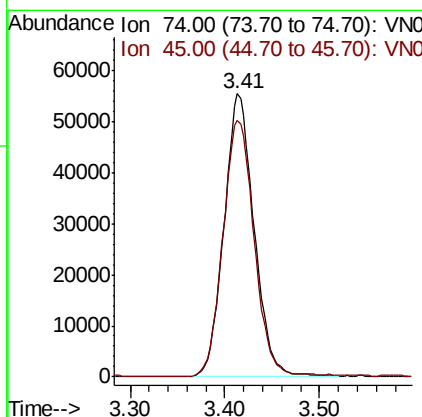
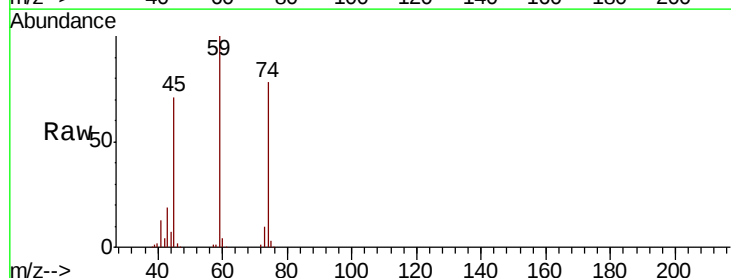
MMDadoda
 12/14/2018 9:02:32 AM

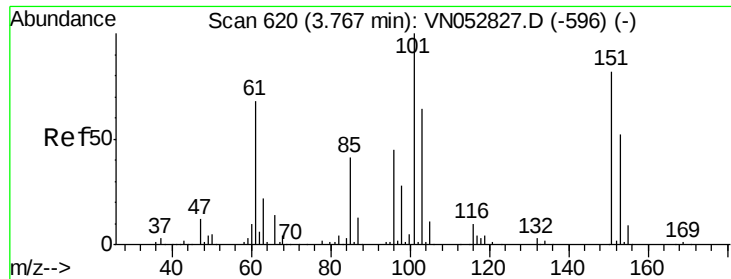


#8

Diethyl Ether
 Concen: 20.462 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.8	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.122 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

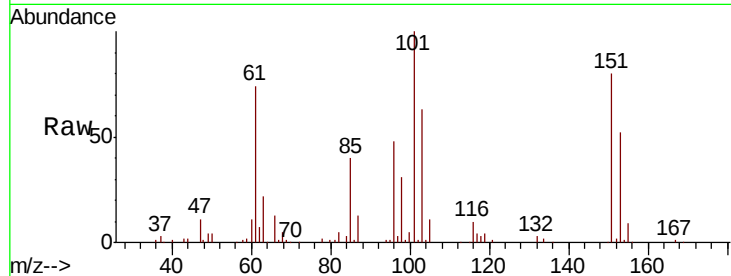
ClientSampleId :

VN1213MBSD01

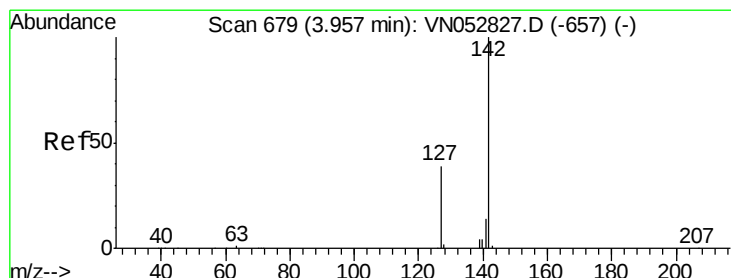
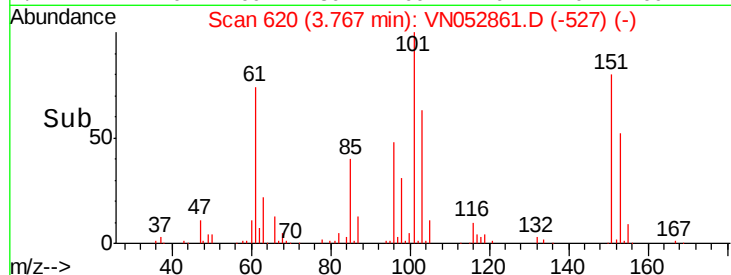
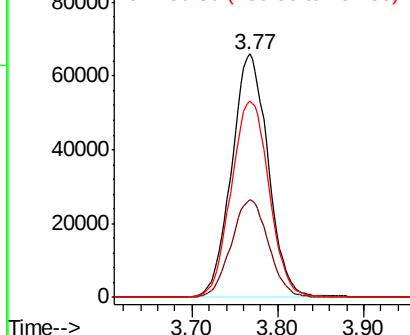
Tot Ion:	101	Resp:	194503
Ion Ratio	Lower	Upper	
101	100		
85	40.9	33.6	50.4
151	83.9	65.5	98.3

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 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: 19.094 ug/l

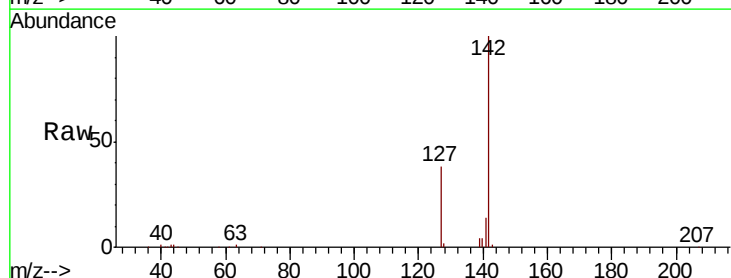
RT: 3.96 min Scan# 680

Delta R.T. 0.00 min

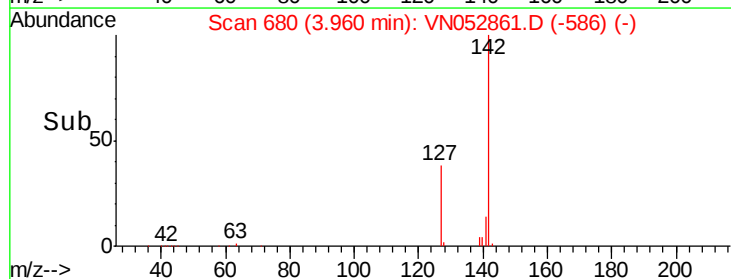
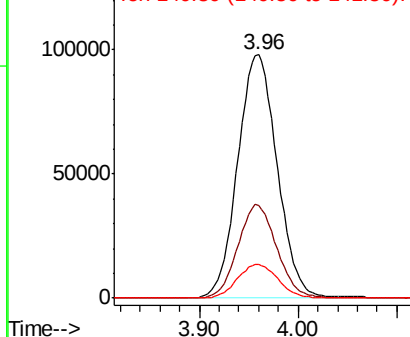
Lab File: VN052861.D

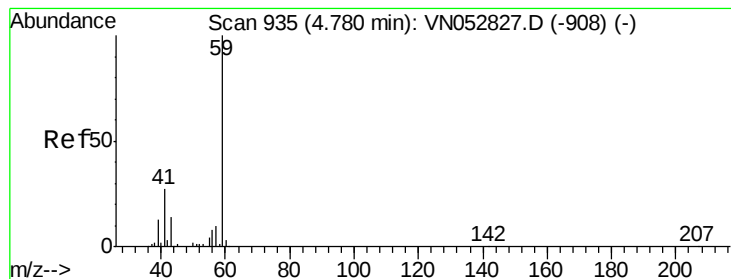
Acq: 13 Dec 2018 13:47

Tgt Ion:	142	Resp:	271988
Ion Ratio	Lower	Upper	
142	100		
127	37.7	31.0	46.6
141	14.1	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

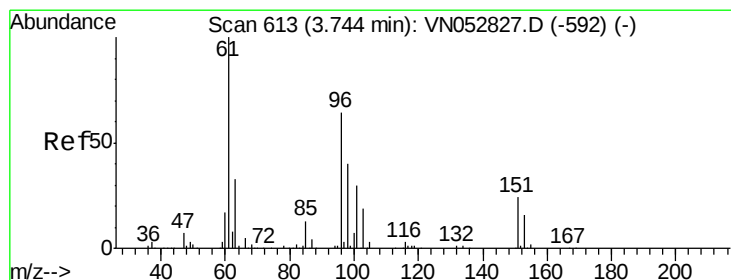
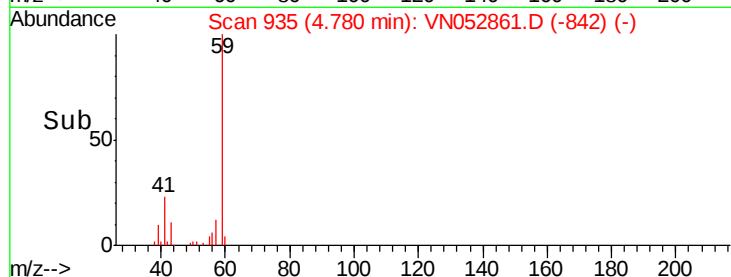
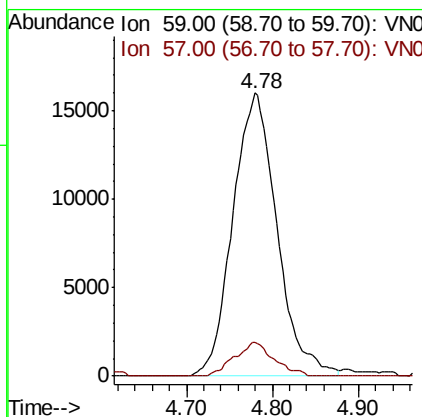
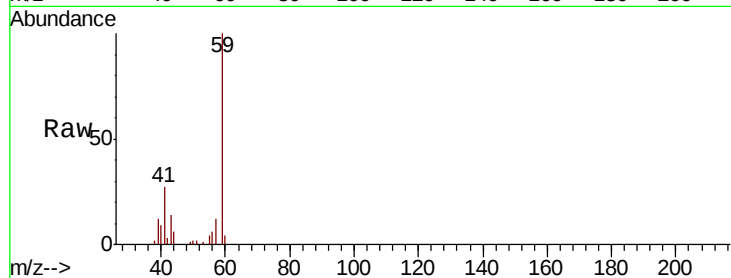
Tert butyl alcohol
Concen: 89.631 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.6	7.7	11.5

Manual Integrations
APPROVED

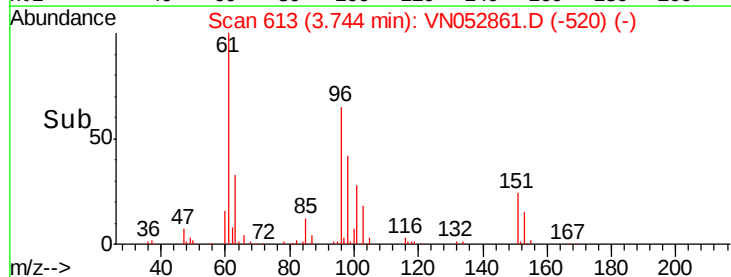
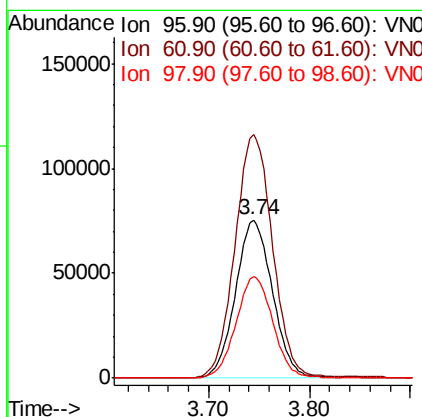
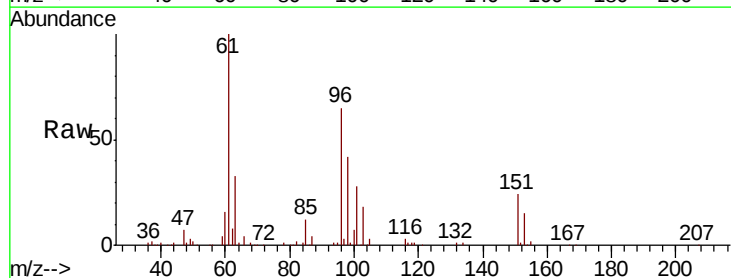
MMDadoda
12/14/2018 9:02:32 AM

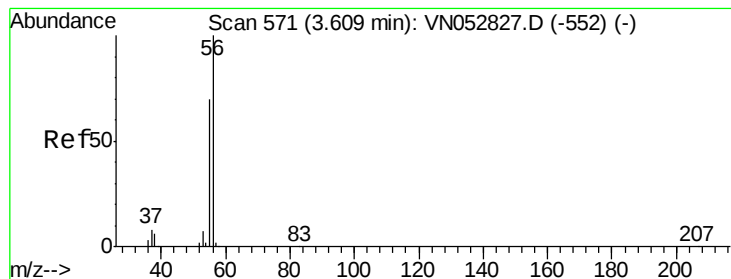


#12

1,1-Dichloroethene
Concen: 19.504 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.2	125.6	188.4
98	64.4	50.6	75.8





#13

Acrolein

Concen: 104.943 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

VN1213MBSD01

Tot Ion: 56 Resp: 62869

Ion Ratio Lower Upper

56 100

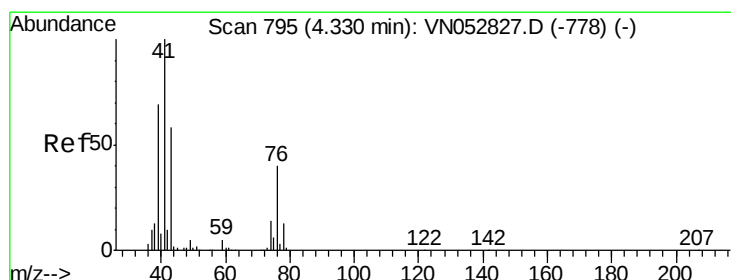
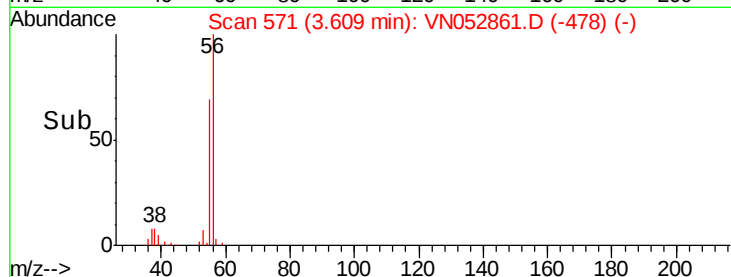
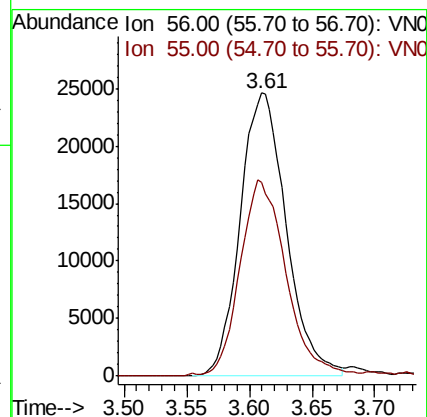
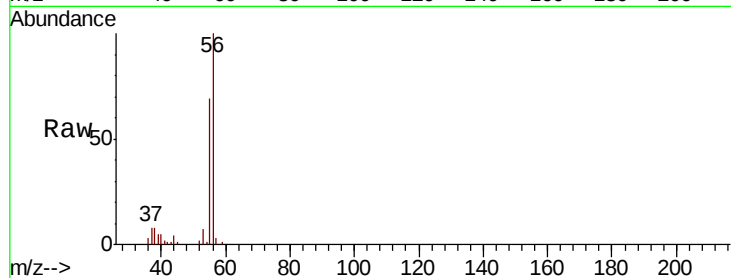
55 69.3 56.6 85.0

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:02:32 AM



#14

Allyl chloride

Concen: 19.672 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

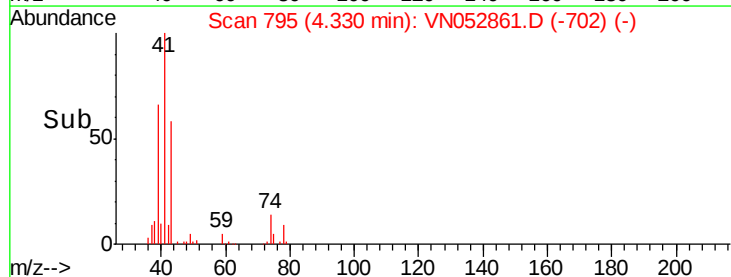
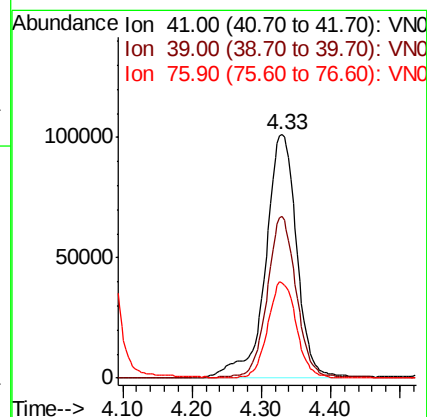
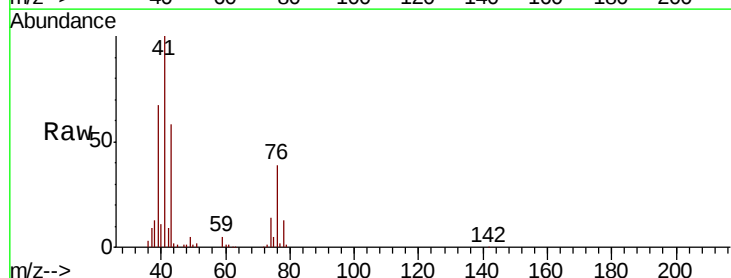
Tgt Ion: 41 Resp: 316381

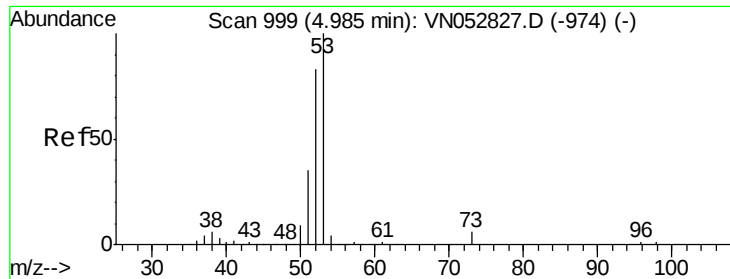
Ion Ratio Lower Upper

41 100

39 61.8 54.1 81.1

76 35.5 30.3 45.5





#15

Acrylonitrile

Concen: 96.255 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

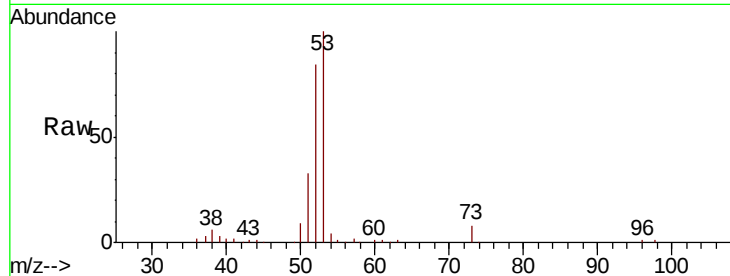
ClientSampleId :

VN1213MBS01

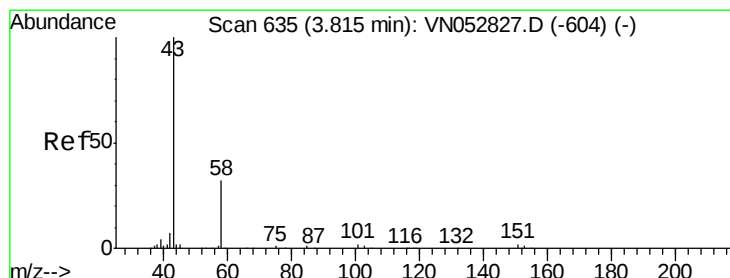
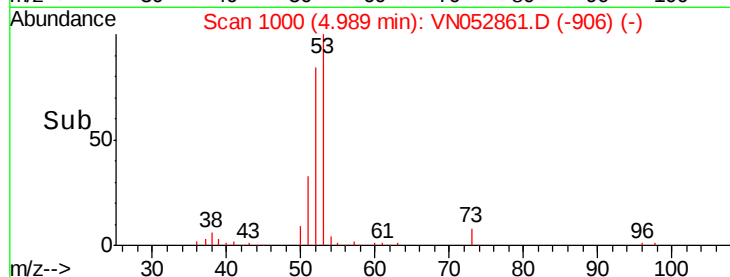
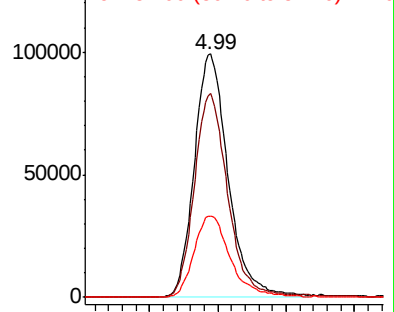
Tot Ion:	53	Resp:	343600
Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.1	97.7
51	35.6	28.1	42.1

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 AM



Abundance Ion 53.00 (52.70 to 53.70): VN052827.D (-974) (-)



#16

Acetone

Concen: 87.135 ug/l

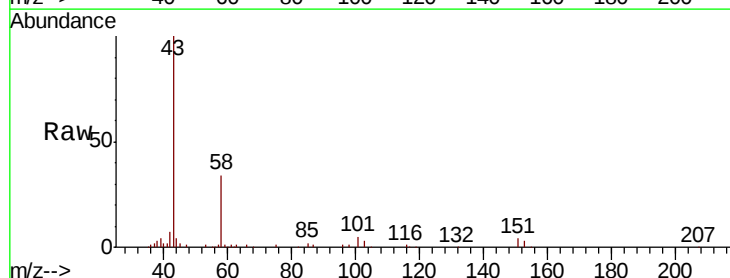
RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

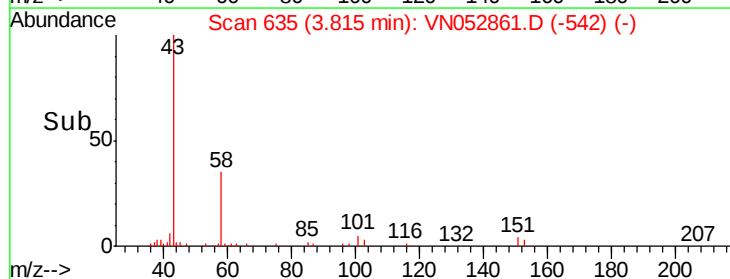
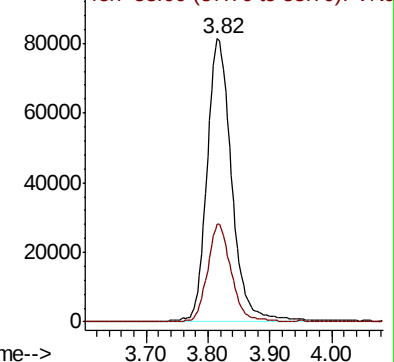
Lab File: VN052861.D

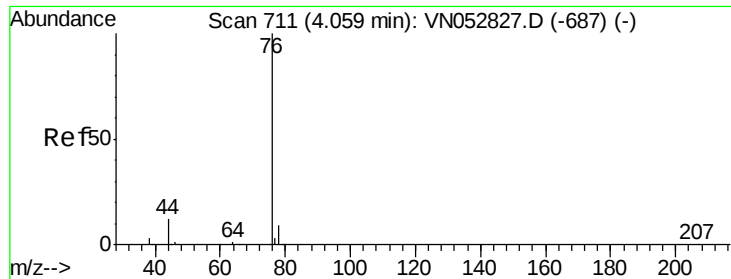
Acq: 13 Dec 2018 13:47

Tgt Ion:	43	Resp:	222857
Ion	Ratio	Lower	Upper
43	100		
58	34.5	25.4	38.0



Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-604) (-)





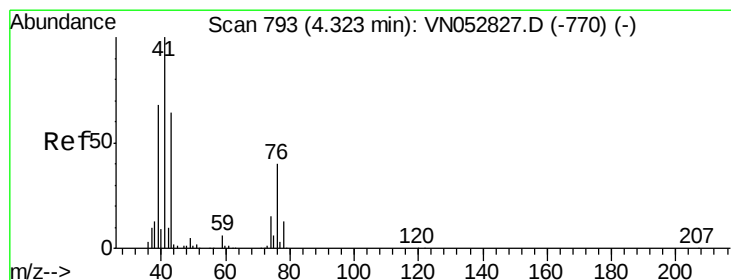
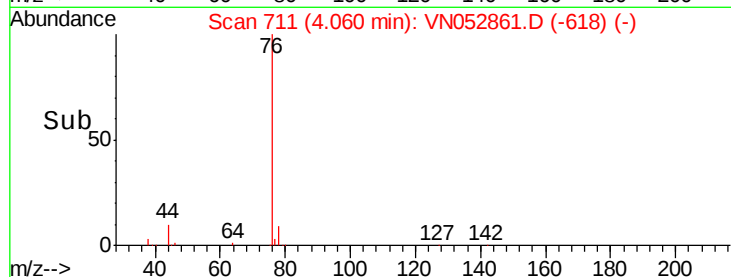
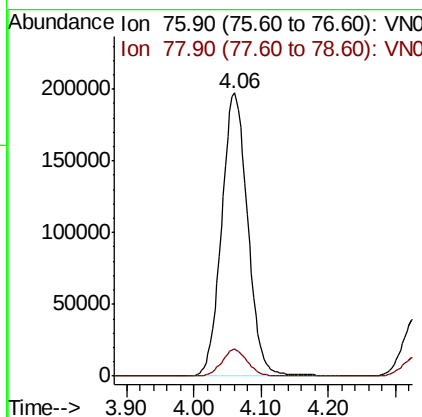
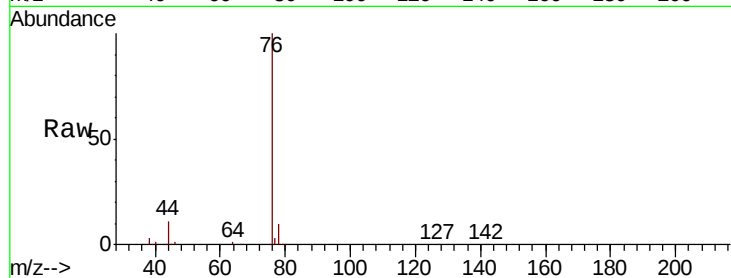
#17
Carbon Disulfide
Concen: 17.647 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.1	10.7

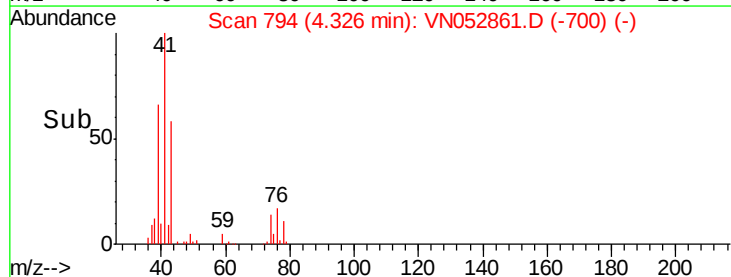
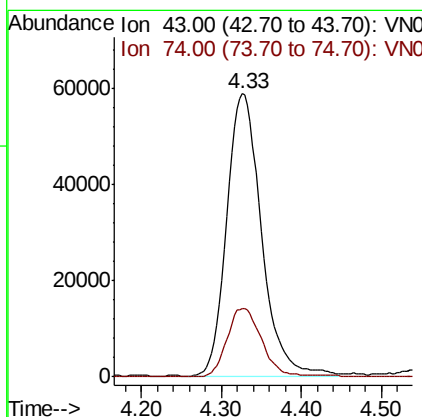
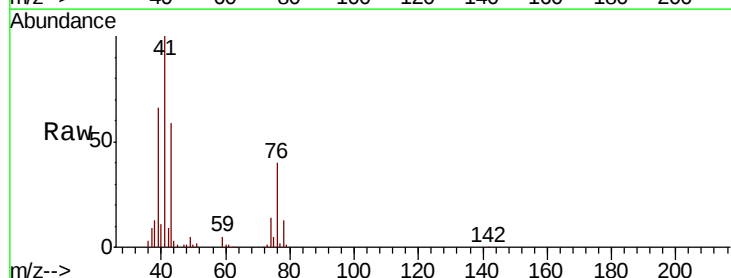
Manual Integrations
APPROVED

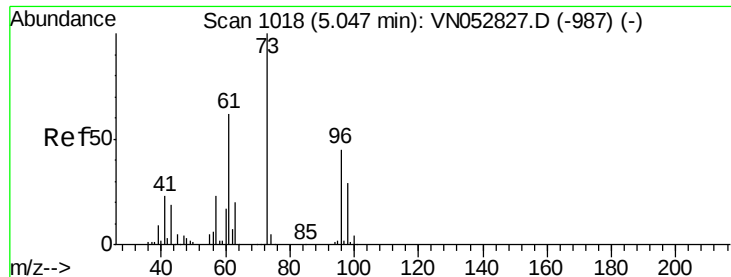
MMDadoda
12/14/2018 9:02:32 AM



#18
Methyl Acetate
Concen: 18.500 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.1	19.2	28.8





#19

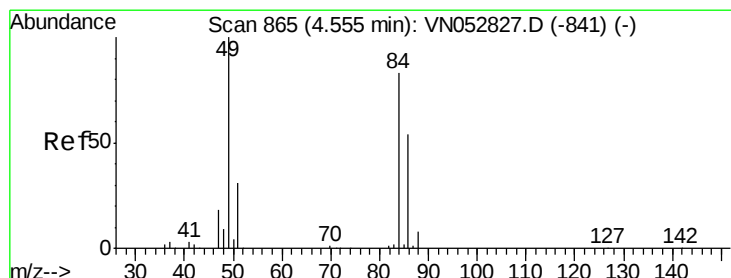
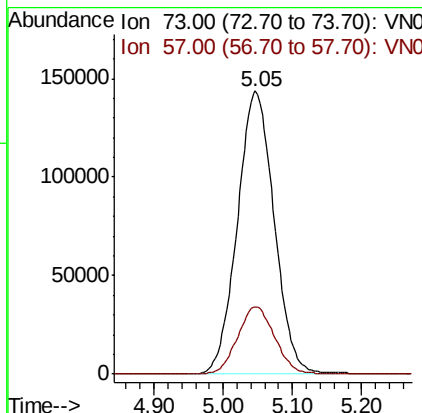
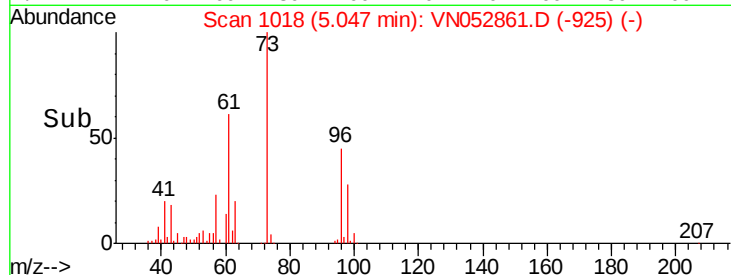
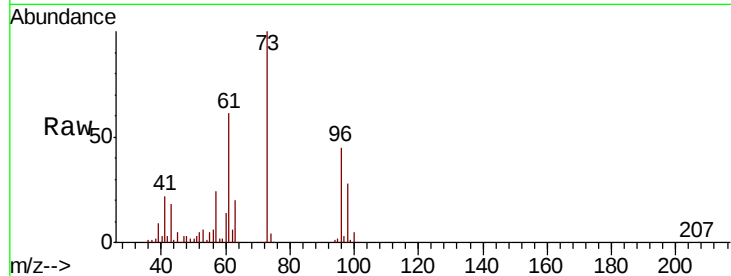
Methyl tert-butyl Ether
 Concen: 19.818 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213MBS01

Tot Ion: 73 Resp: 529774
 Ion Ratio Lower Upper
 73 100
 57 23.8 18.4 27.6

Manual Integrations
 APPROVED

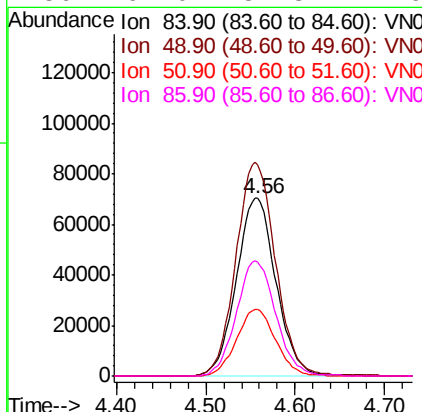
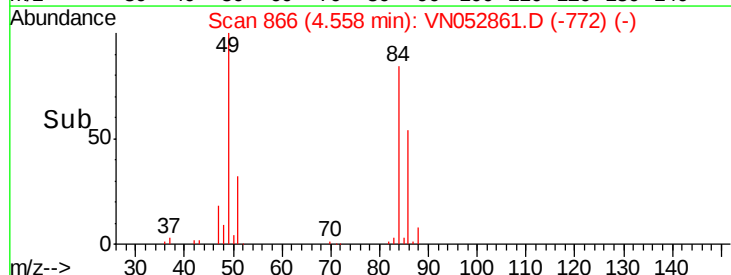
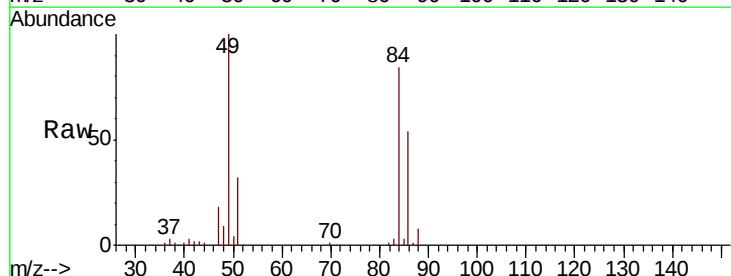
MMDadoda
 12/14/2018 9:02:32 AM

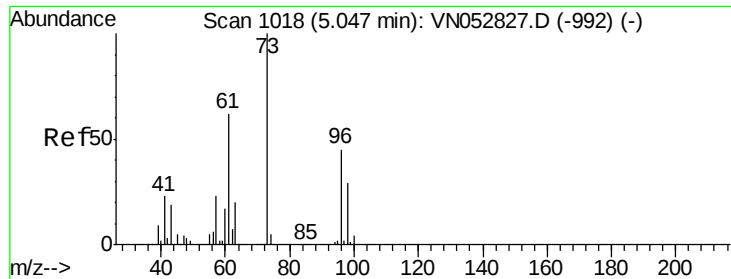


#20

Methylene Chloride
 Concen: 18.850 ug/l
 RT: 4.56 min Scan# 866
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Tgt Ion: 84 Resp: 216957
 Ion Ratio Lower Upper
 84 100
 49 118.9 96.8 145.2
 51 37.6 29.9 44.9
 86 64.0 51.8 77.6





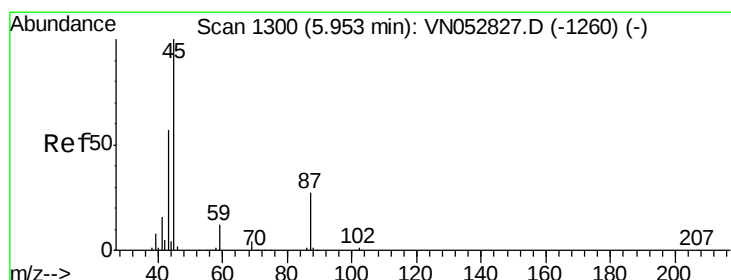
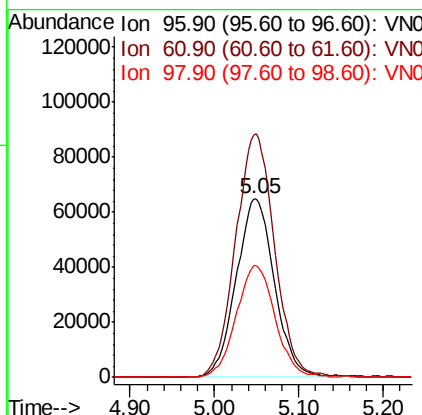
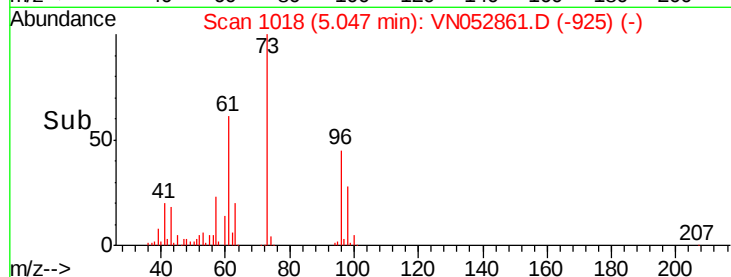
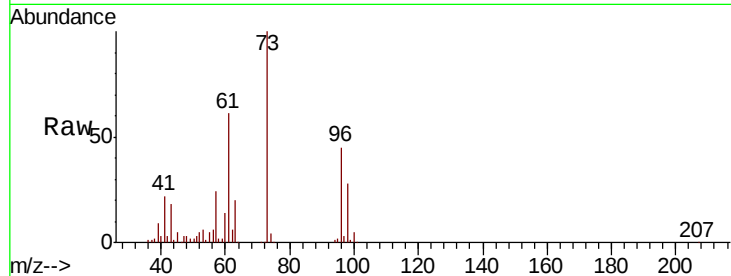
#21
trans-1,2-Dichloroethene
Concen: 19.200 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.9	110.8	166.2
98	62.7	51.4	77.2

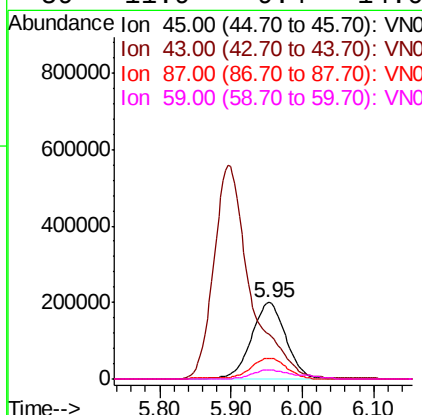
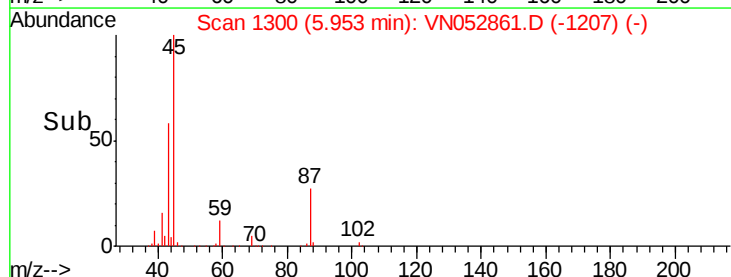
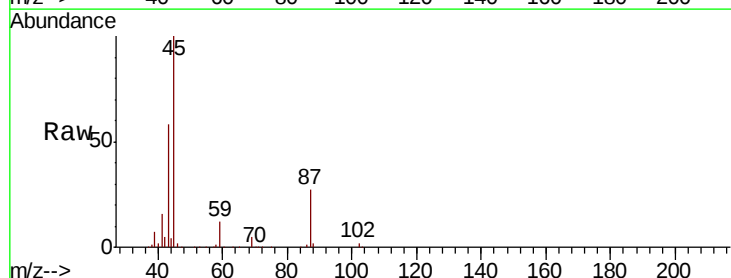
Manual Integrations
APPROVED

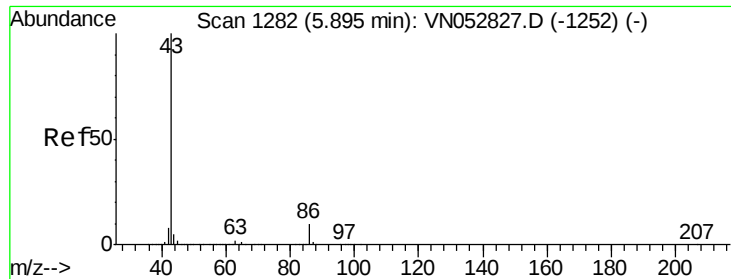
MMDadoda
12/14/2018 9:02:32 AM



#22
Diisopropyl ether
Concen: 19.551 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.4	45.5	68.3
87	27.2	22.0	33.0
59	11.9	9.4	14.0





#23

Vinyl Acetate

Concen: 97.003 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

VN1213MBSD01

Tot Ion: 43 Resp: 1980460

Ion Ratio Lower Upper

43 100

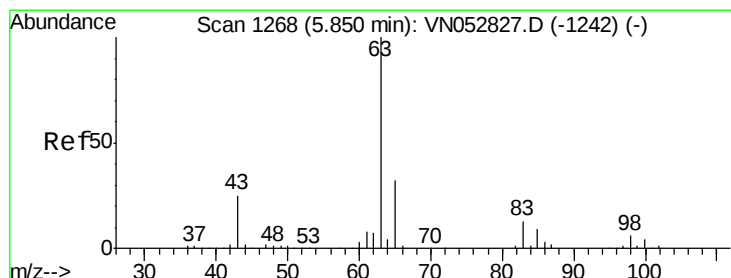
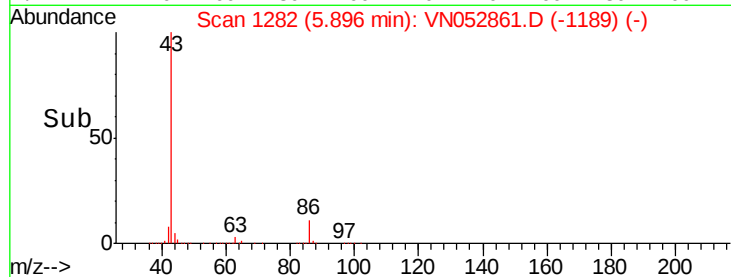
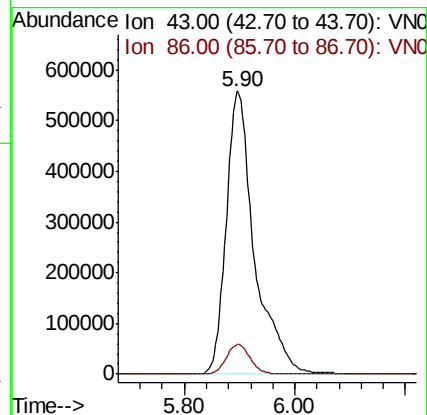
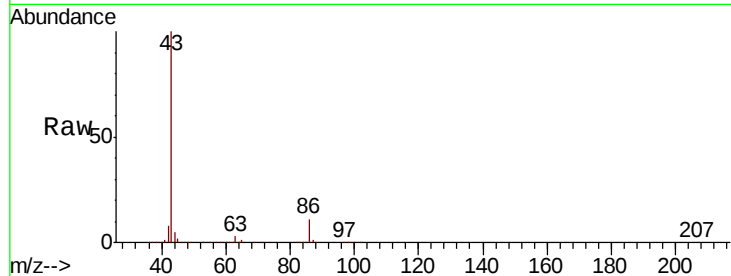
86 10.5 8.1 12.1

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:02:32 AM



#24

1,1-Dichloroethane

Concen: 19.752 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

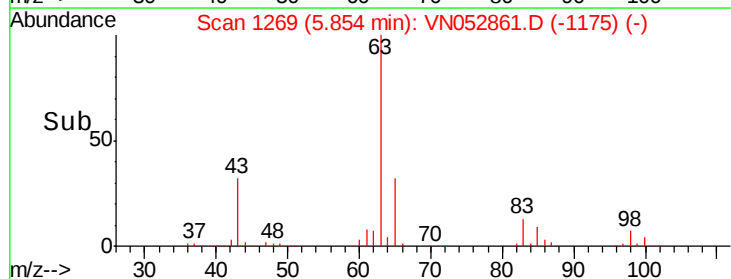
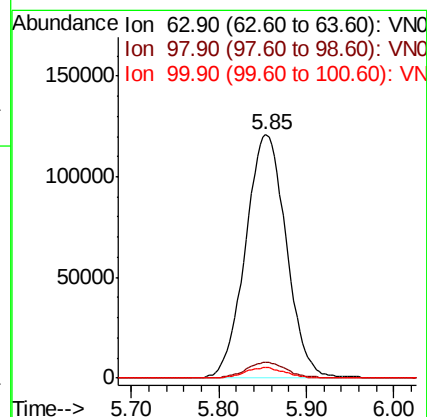
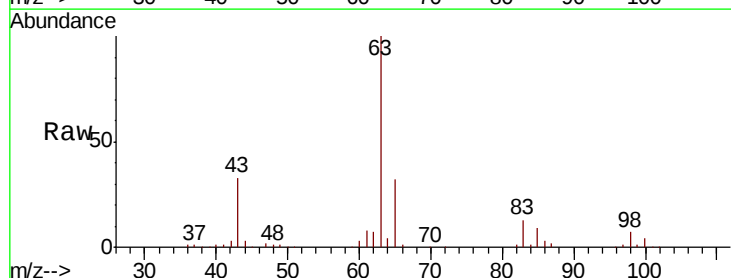
Tgt Ion: 63 Resp: 390814

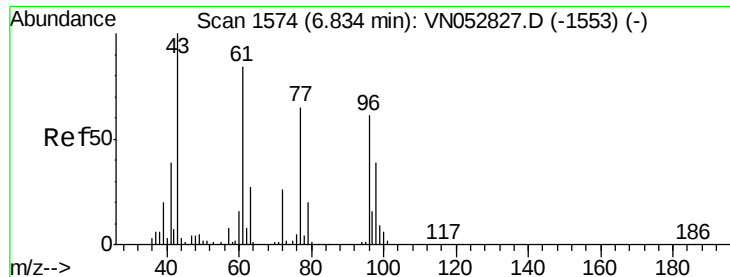
Ion Ratio Lower Upper

63 100

98 6.7 3.1 9.4

100 4.2 2.0 5.8





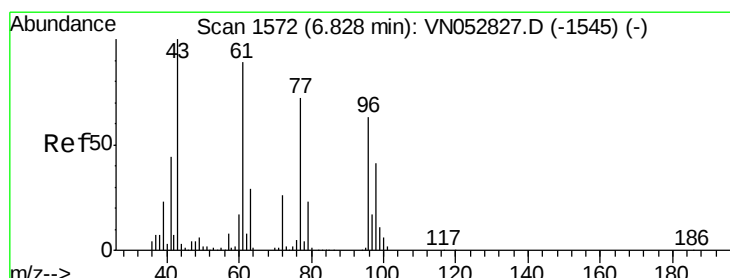
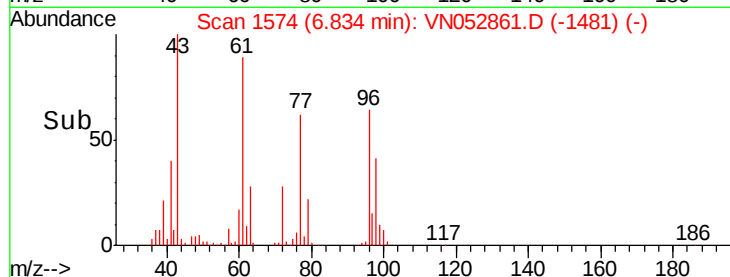
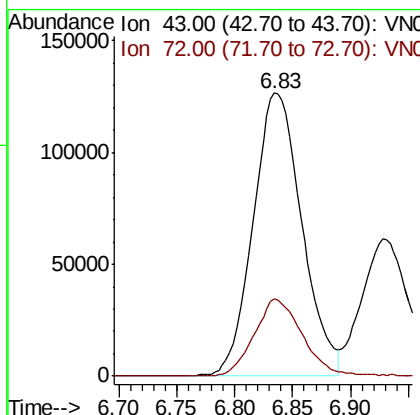
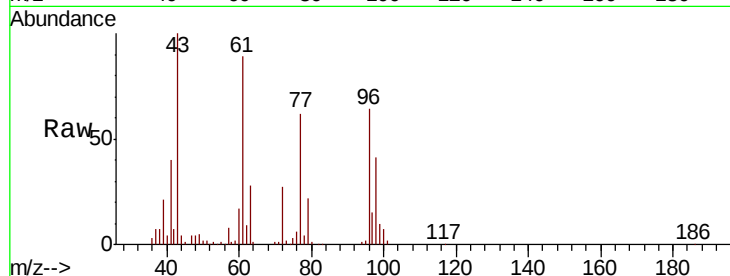
#25
2-Butanone
Concen: 92.987 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion: 43 Resp: 369018
Ion Ratio Lower Upper
43 100
72 27.5 21.0 31.6

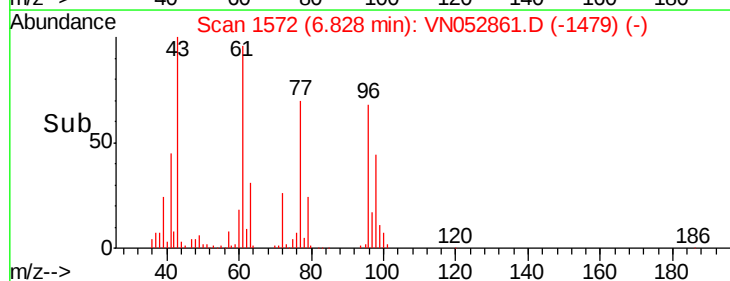
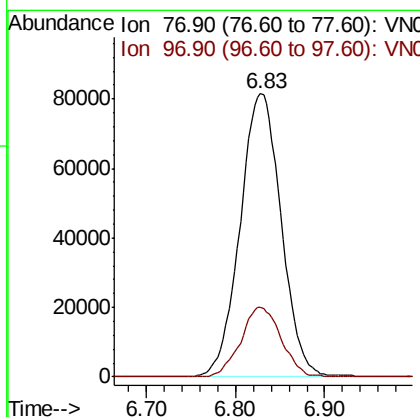
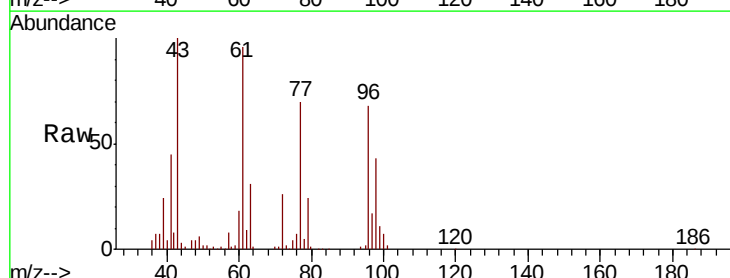
Manual Integrations
APPROVED

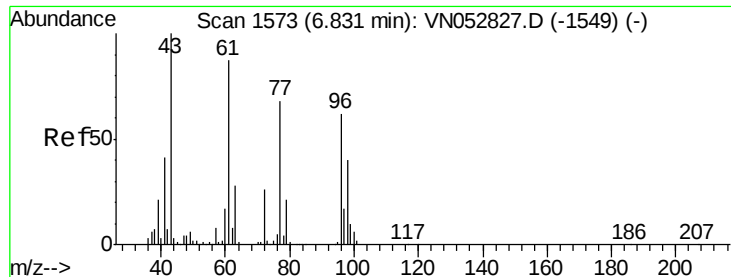
MMDadoda
12/14/2018 9:02:32 AM



#26
2,2-Dichloropropane
Concen: 17.901 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion: 77 Resp: 260832
Ion Ratio Lower Upper
77 100
97 24.1 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 19.723 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

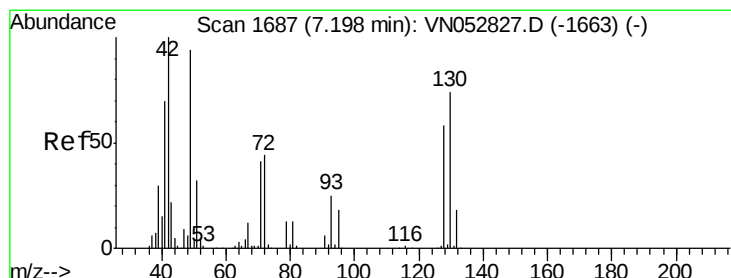
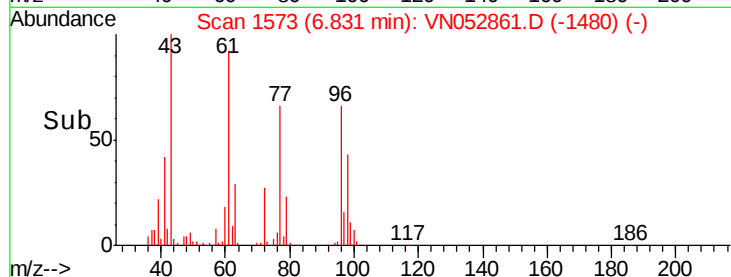
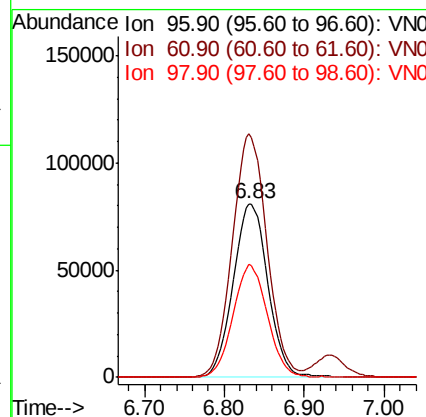
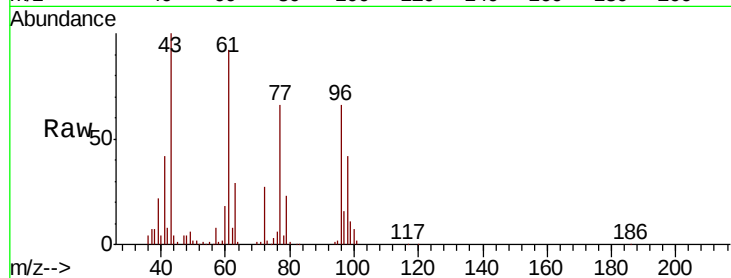
ClientSampleId :

VN1213MBS01

Tot Ion:	96	Resp:	238802
Ion Ratio	Lower	Upper	
96	100		
61	139.8	0.0	284.2
98	64.2	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 AM



#28

Bromochloromethane

Concen: 19.252 ug/l

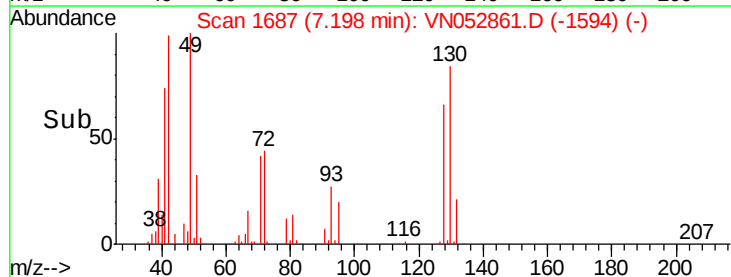
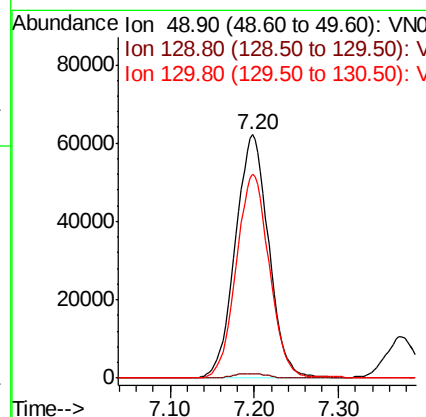
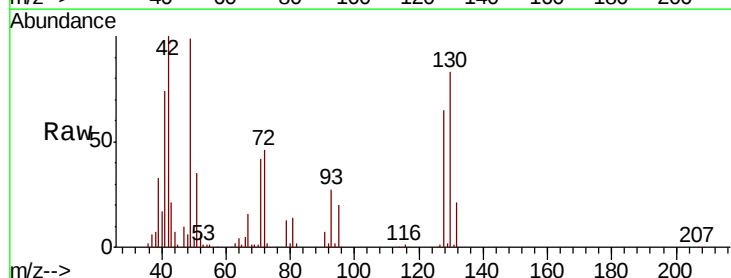
RT: 7.20 min Scan# 1687

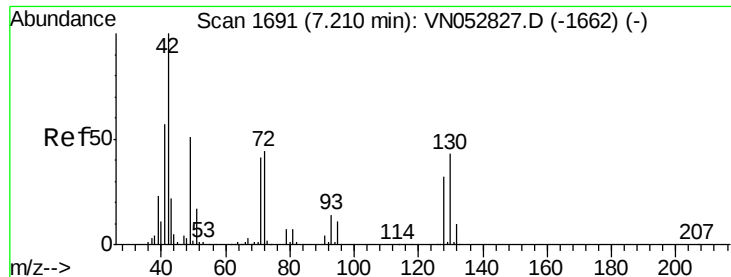
Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Tgt Ion:	49	Resp:	171055
Ion Ratio	Lower	Upper	
49	100		
129	1.0	0.0	4.0
130	82.9	63.3	94.9





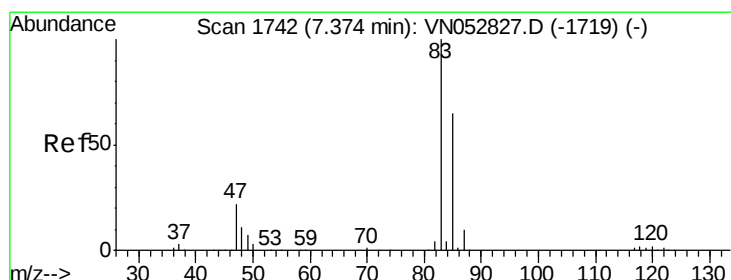
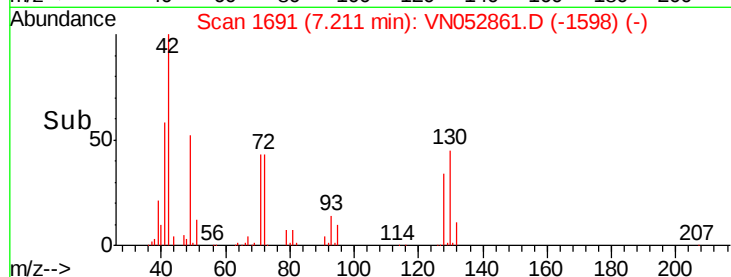
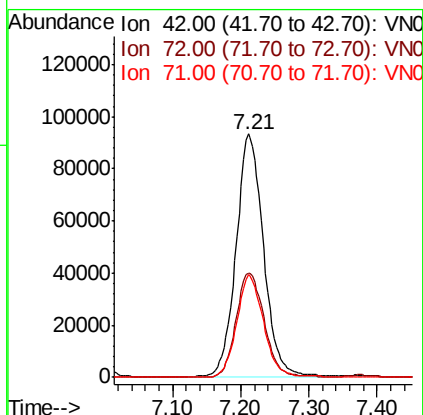
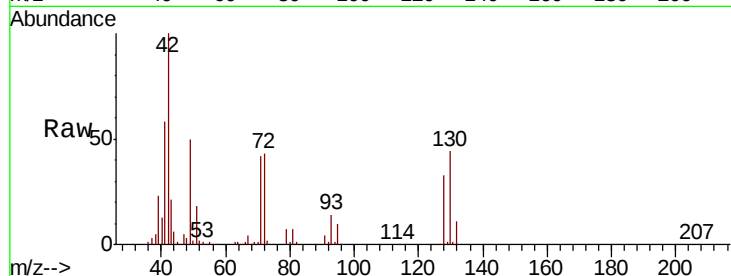
#29
Tetrahydrofuran
Concen: 95.956 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.0	34.7	52.1
71	40.9	32.3	48.5

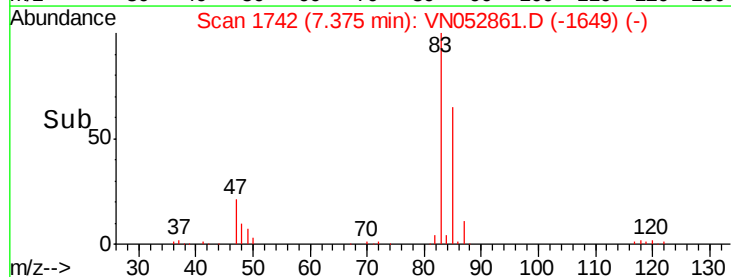
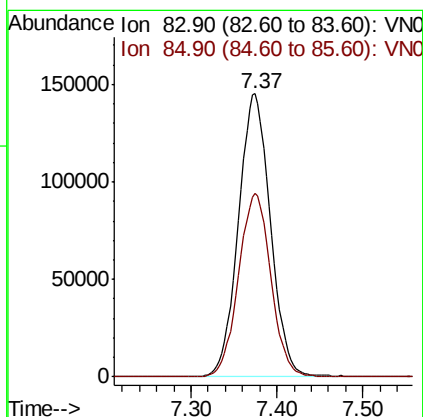
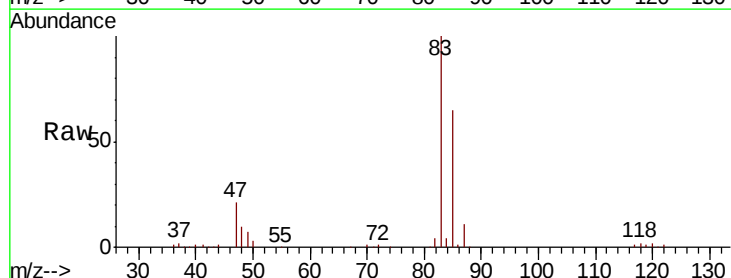
Manual Integrations
APPROVED

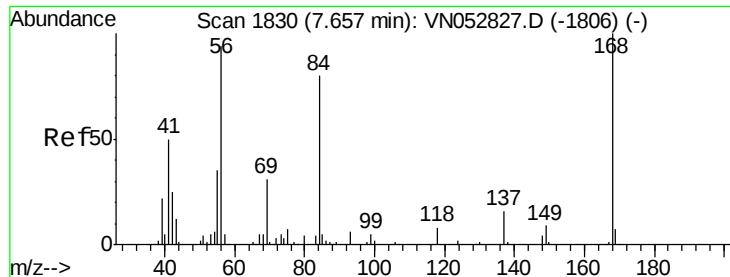
MMDadoda
12/14/2018 9:02:32 AM



#30
Chloroform
Concen: 19.515 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.1	78.1





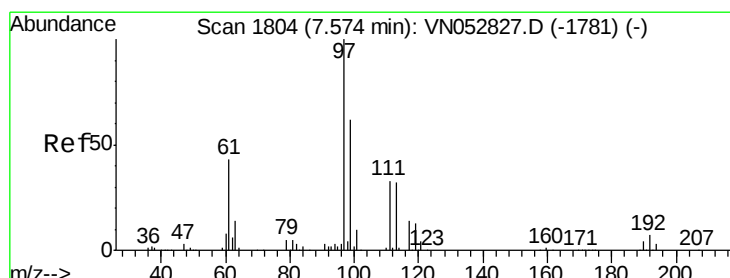
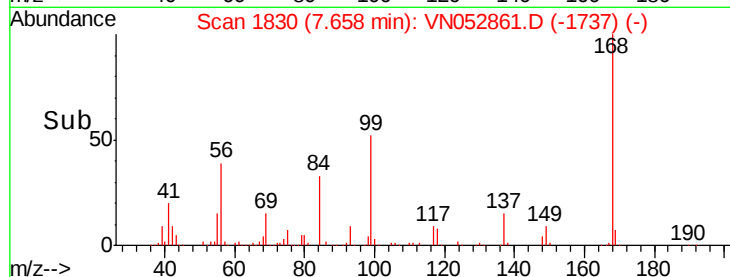
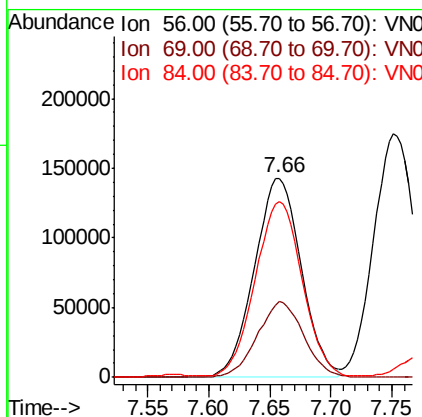
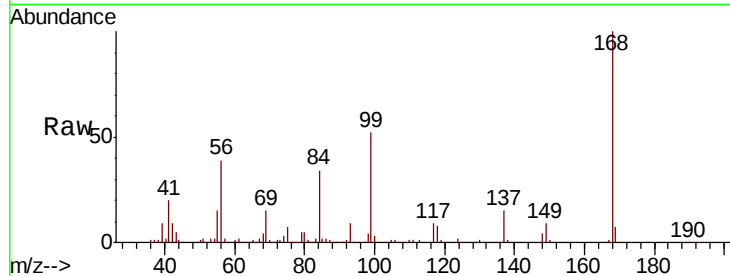
#31
Cyclohexane
Concen: 19.424 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.8	26.6	39.8
84	87.3	68.4	102.6

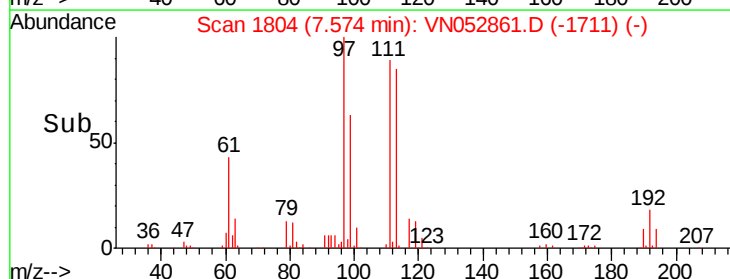
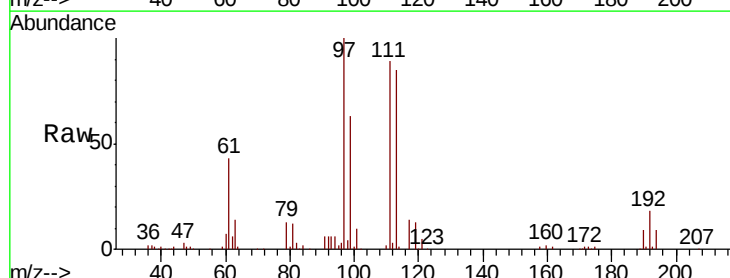
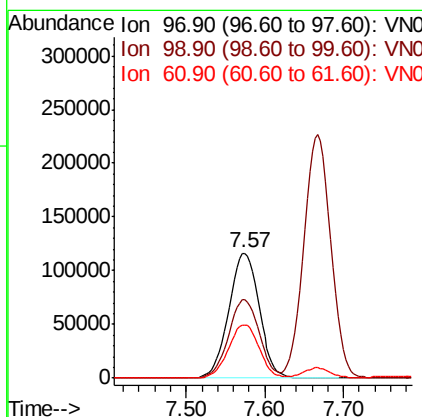
Manual Integrations
APPROVED

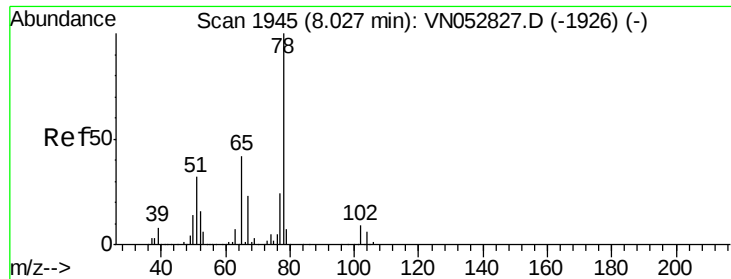
MMDadoda
12/14/2018 9:02:32 AM



#32
1,1,1-Trichloroethane
Concen: 19.386 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.1	76.7
61	43.0	35.0	52.6





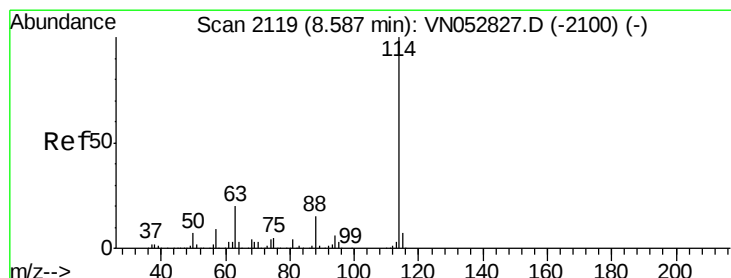
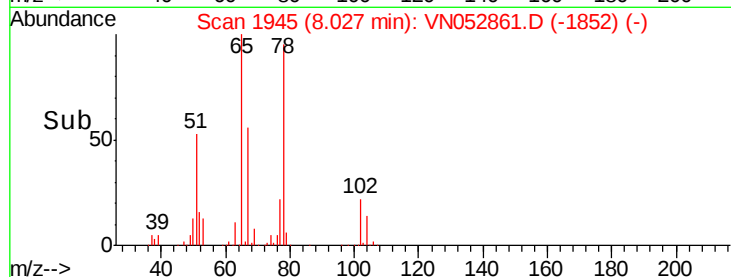
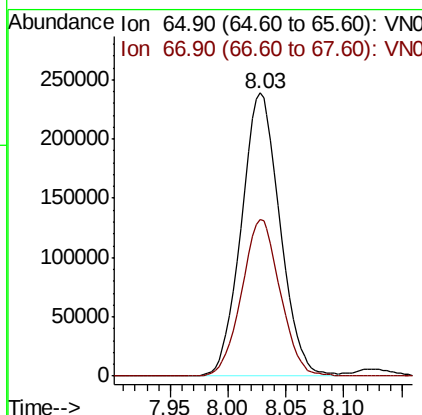
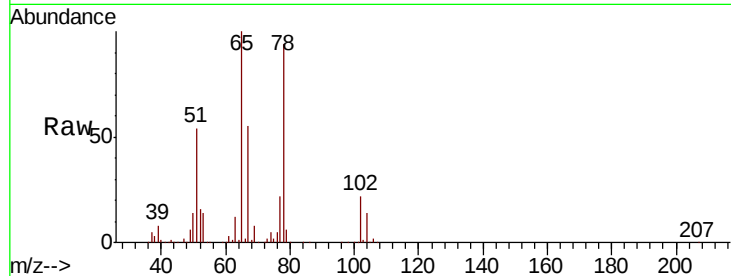
#33
 1,2-Dichloroethane-d4
 Concen: 19.386 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.3	0.0	110.4	

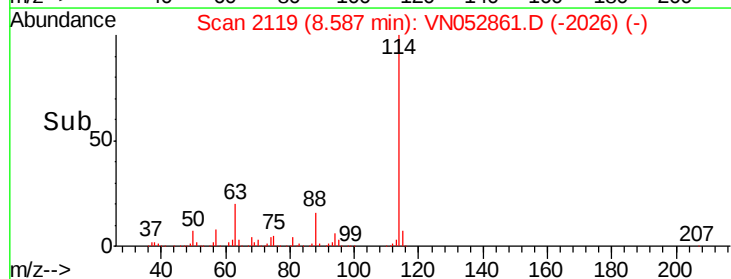
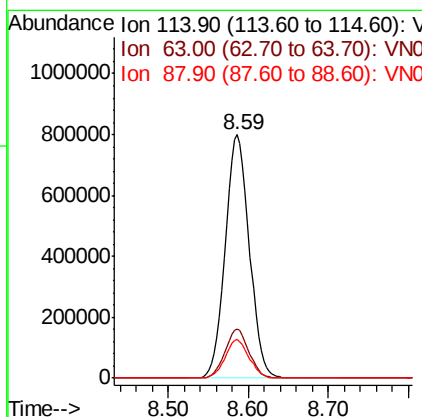
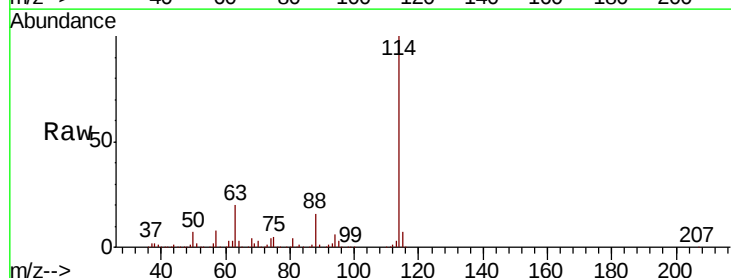
Manual Integrations
 APPROVED

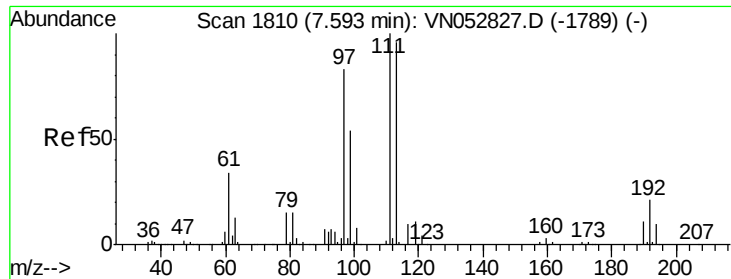
MMDadoda
 12/14/2018 9:02:32 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.2	0.0	39.8	
88	15.8	0.0	31.0	





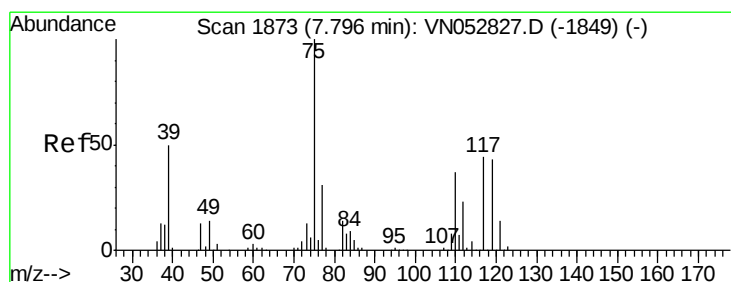
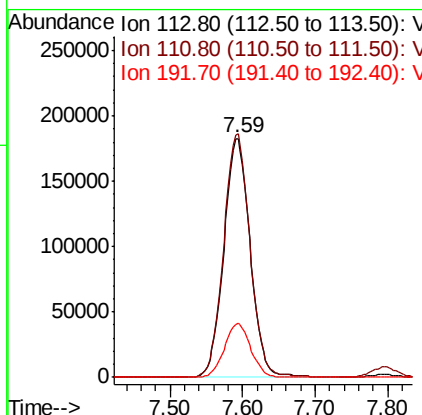
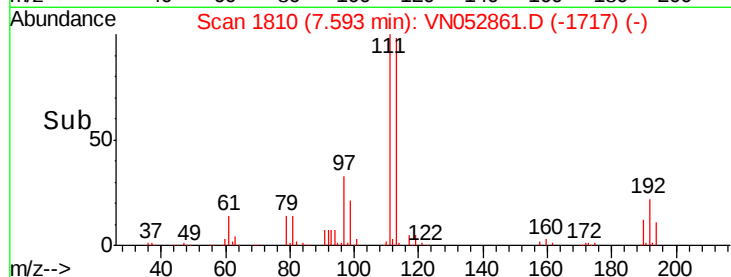
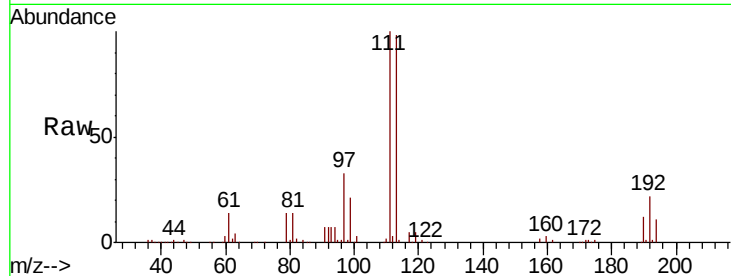
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	461812		
111	102.1	83.0	124.4	
192	22.6	17.5	26.3	

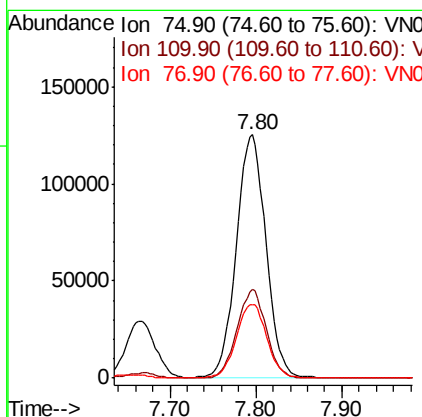
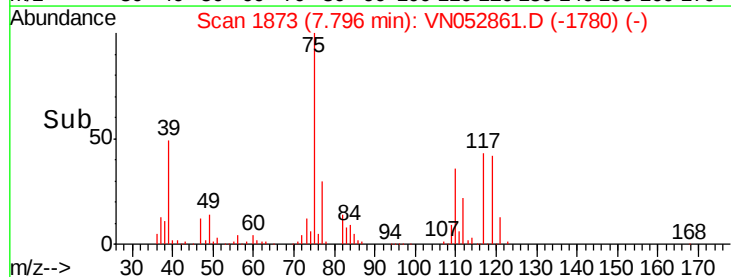
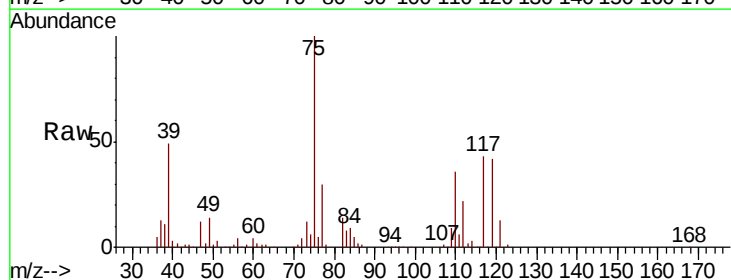
Manual Integrations
 APPROVED

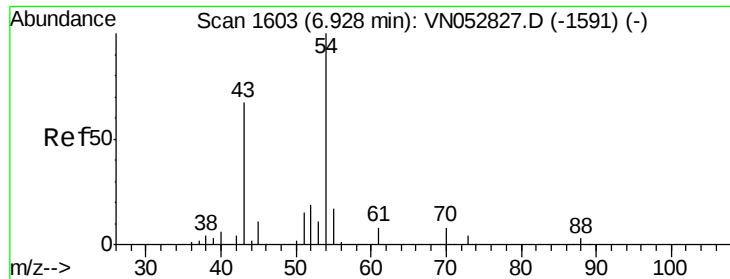
MMDadoda
 12/14/2018 9:02:32 AM



#36
 1,1-Dichloropropene
 Concen: 19.807 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	299609		
110	36.2	18.2	54.6	
77	31.4	24.9	37.3	





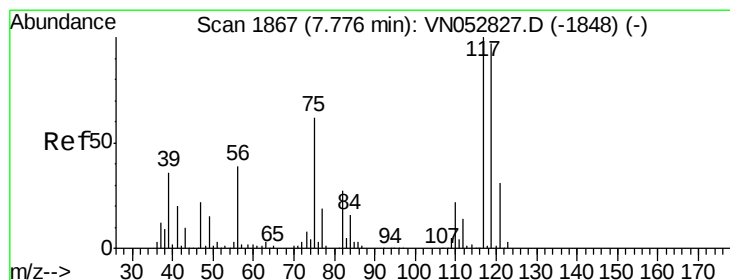
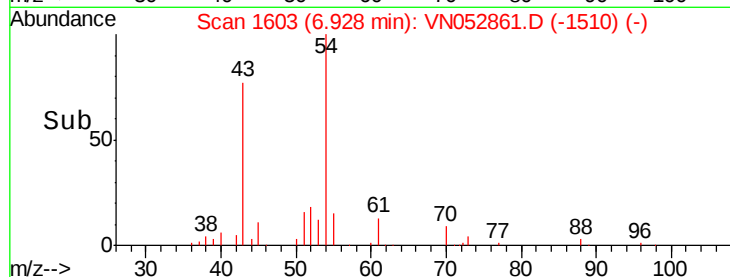
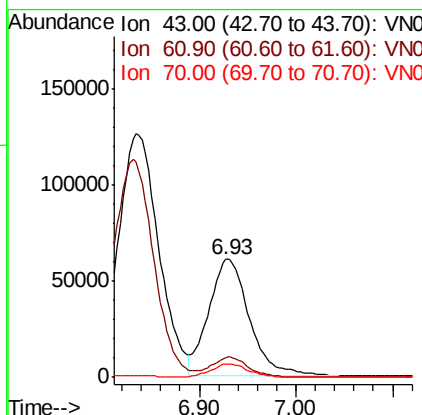
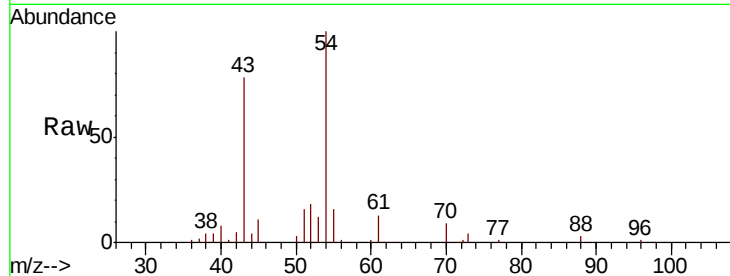
#37
Ethyl Acetate
Concen: 19.588 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	11.8	17.6
70	10.1	8.4	12.6

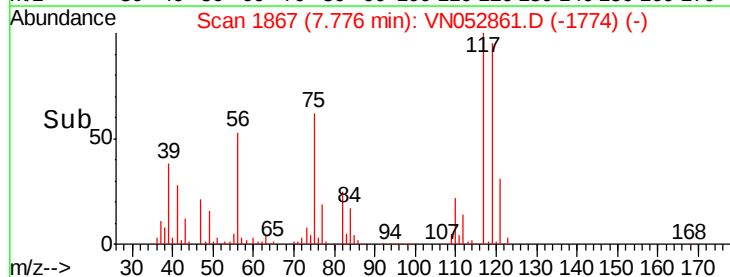
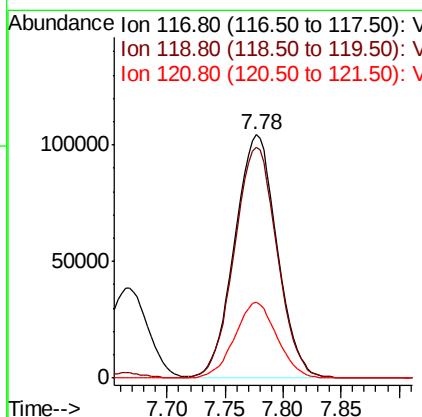
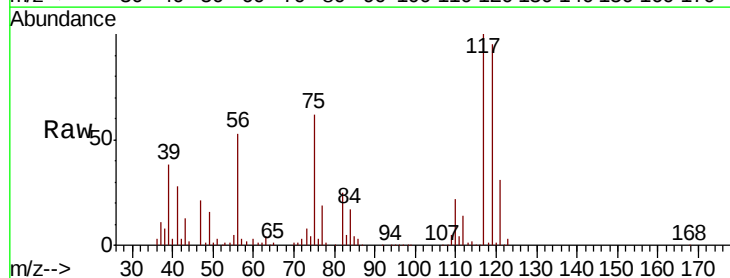
Manual Integrations
APPROVED

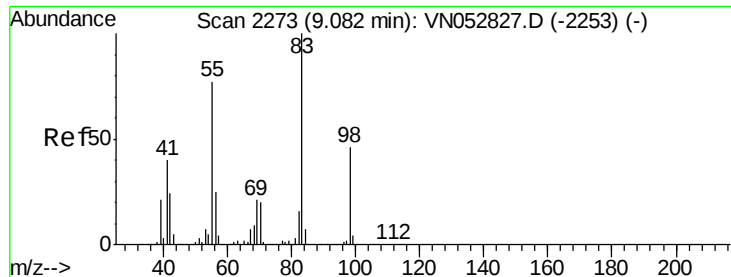
MMDadoda
12/14/2018 9:02:32 AM



#38
Carbon Tetrachloride
Concen: 19.015 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.9	77.1	115.7
121	31.1	24.9	37.3





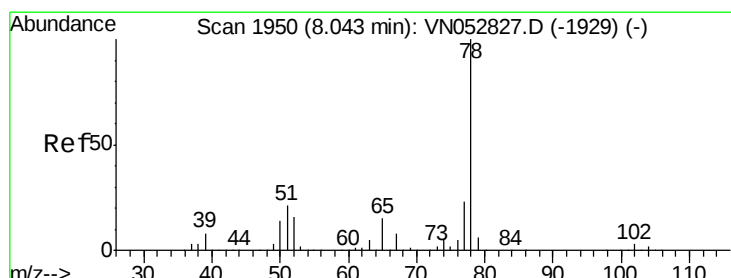
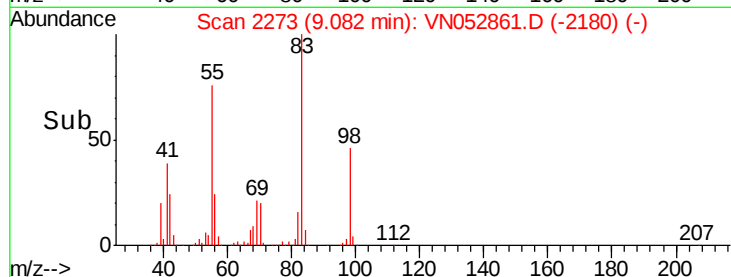
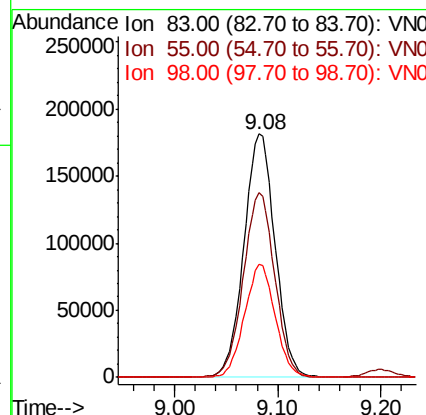
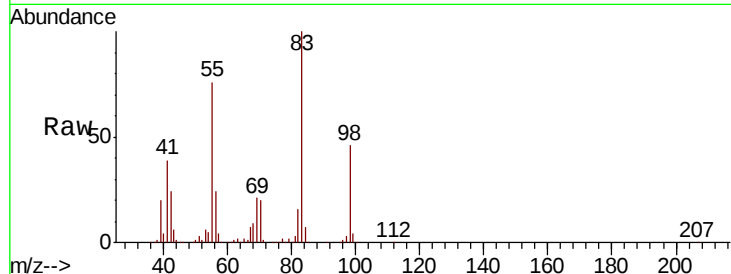
#39
Methylvlcyclohexane
Concen: 20.533 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.7	61.3	91.9
98	46.3	37.0	55.4

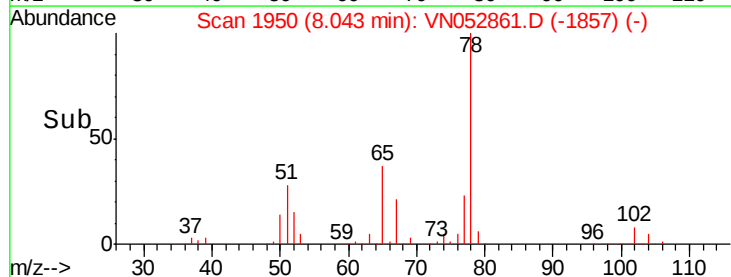
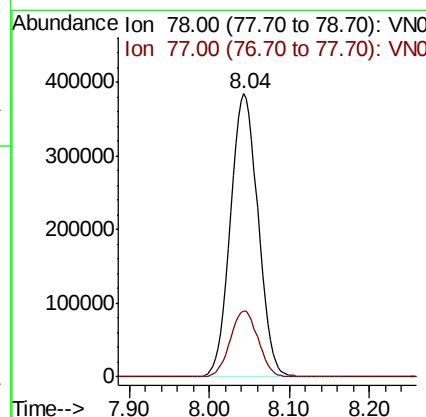
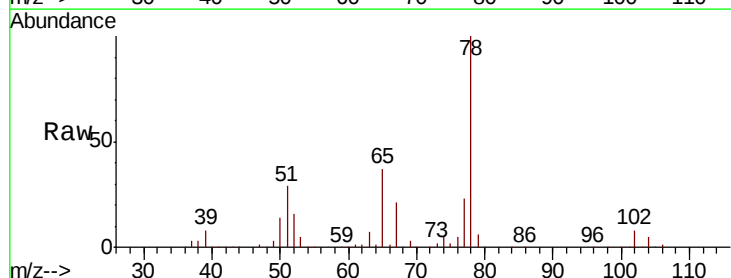
Manual Integrations
APPROVED

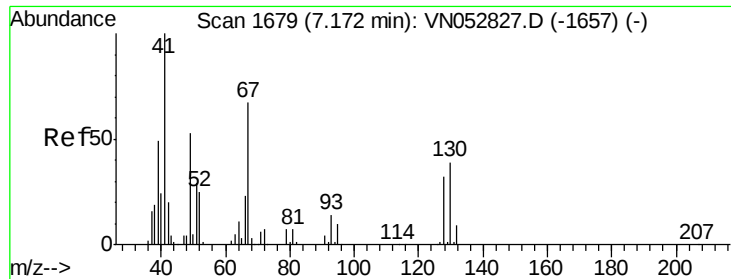
MMDadoda
12/14/2018 9:02:32 AM



#40
Benzene
Concen: 19.948 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.5	27.7





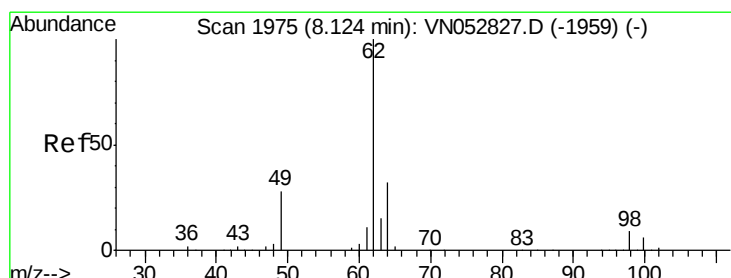
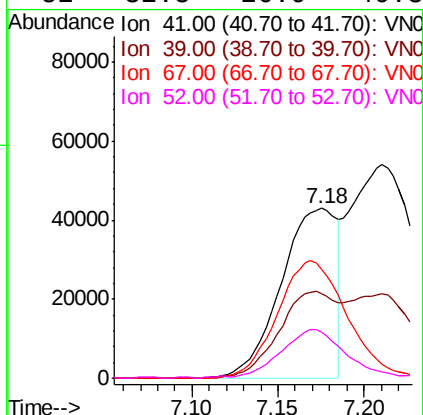
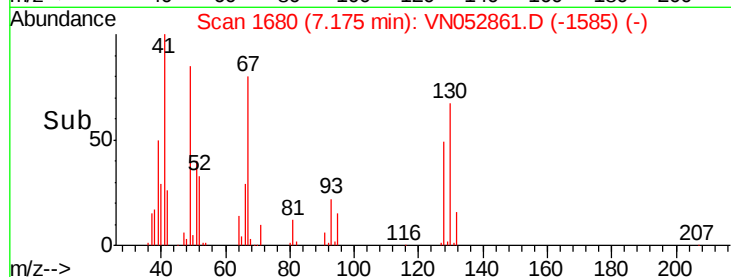
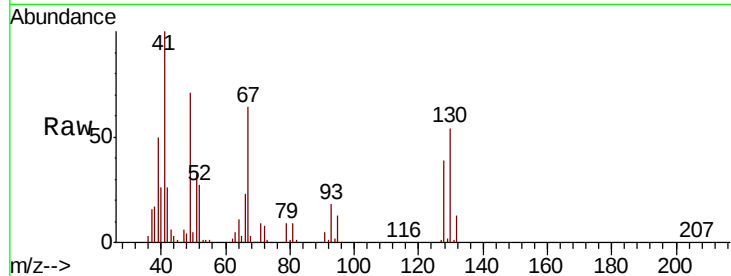
#41
Methacrylonitrile
Concen: 19.256 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	55.4	48.0	72.0	
67	86.2	70.3	105.5	
52	32.5	26.9	40.3	

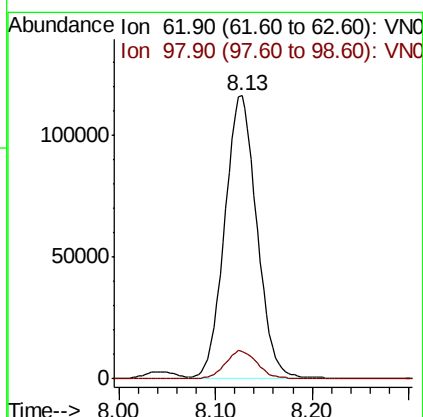
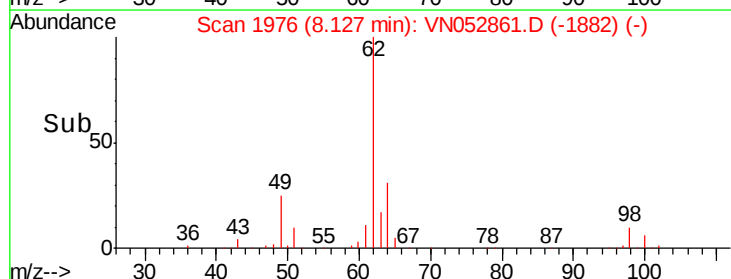
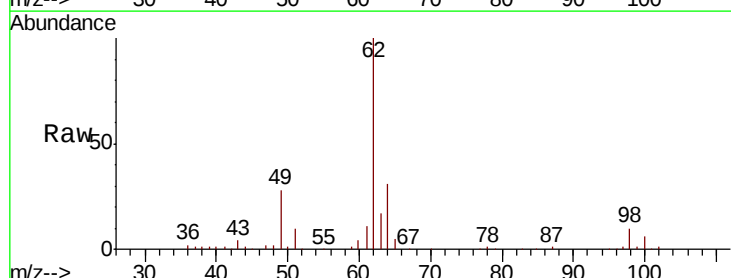
Manual Integrations
APPROVED

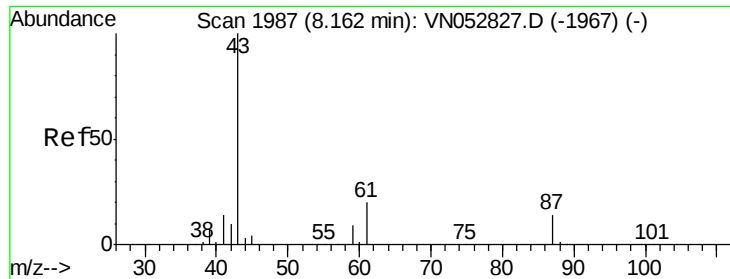
MMDadoda
12/14/2018 9:02:32 AM



#42
1,2-Dichloroethane
Concen: 19.639 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

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





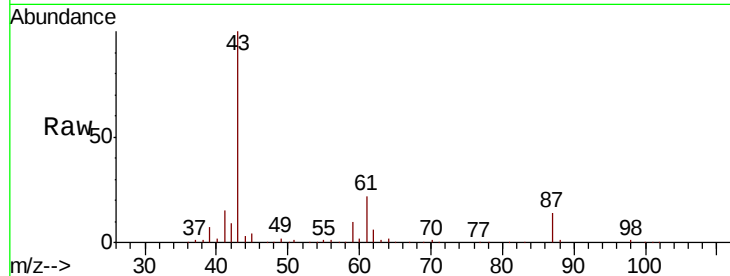
#43
Isopropyl Acetate
Concen: 17.605 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBSD01

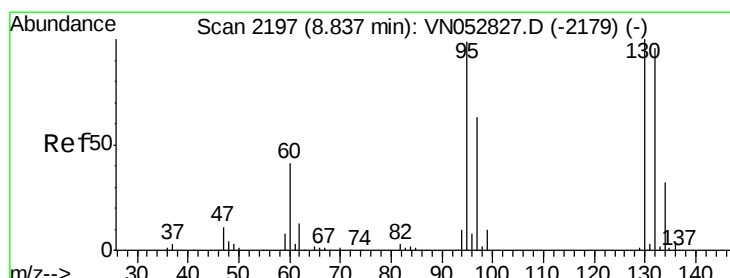
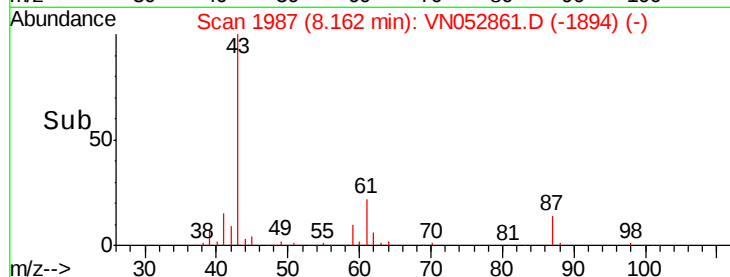
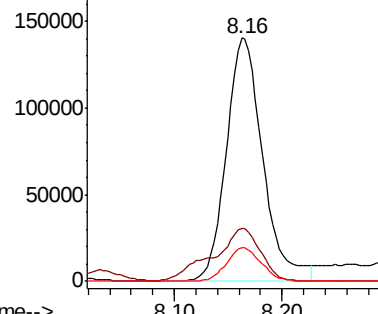
Tot Ion	Ratio	Lower	Upper
43	100		
61	27.8	22.9	34.3
87	13.2	10.6	15.8

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 AM

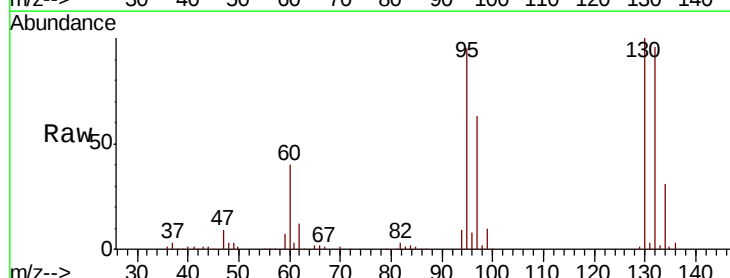


Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-1967) (-)
Ion 61.00 (60.70 to 61.70): VN052827.D (-1967) (-)
Ion 87.00 (86.70 to 87.70): VN052827.D (-1967) (-)

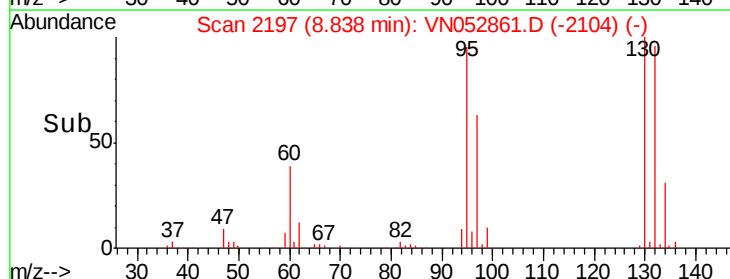
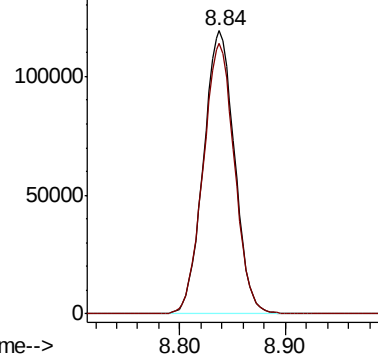


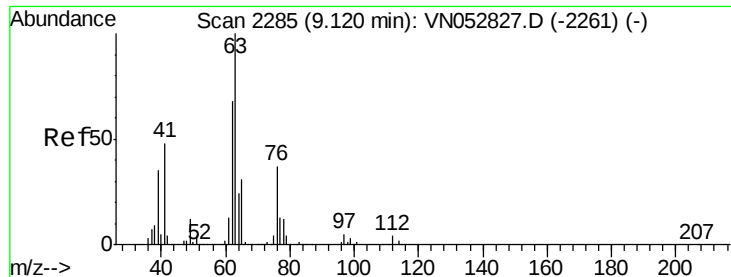
#44
Trichloroethene
Concen: 19.796 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	197.8



Abundance Ion 129.80 (129.50 to 130.50): VN052827.D (-2179) (-)
Ion 94.90 (94.60 to 95.60): VN052827.D (-2179) (-)





#45

1,2-Dichloropropane

Concen: 20.282 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

VN1213MBSD01

Tot Ion: 63 Resp: 241171

Ion Ratio Lower Upper

63 100

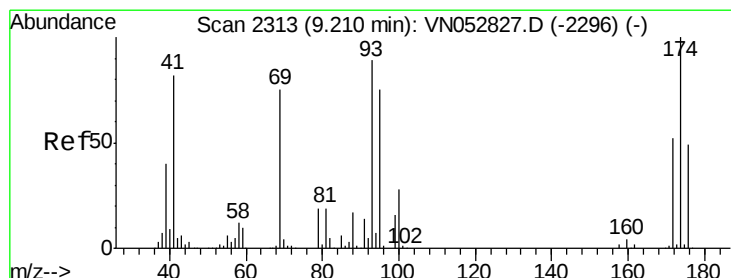
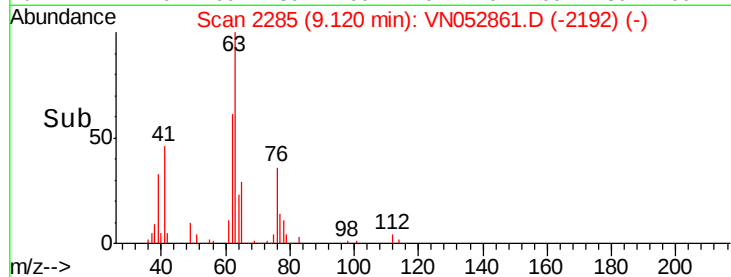
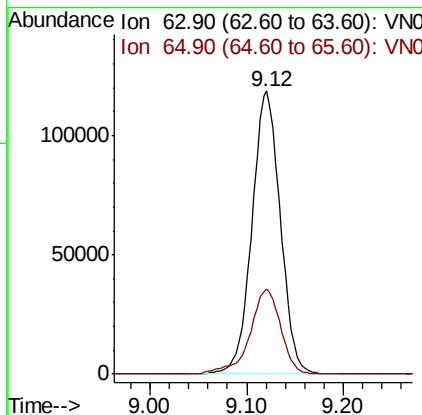
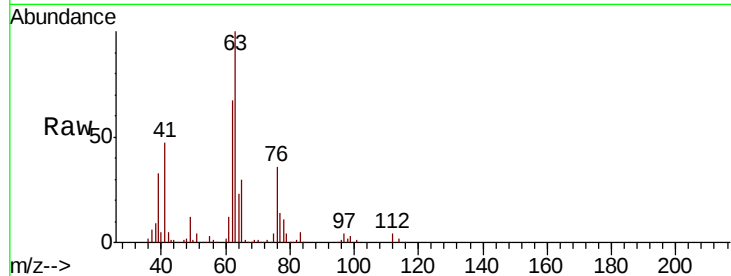
65 29.9 24.6 37.0

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:02:32 AM



#46

Dibromomethane

Concen: 19.494 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

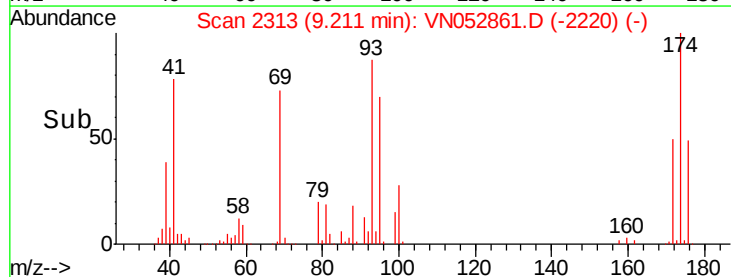
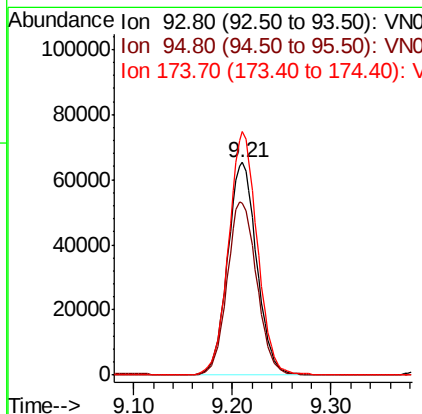
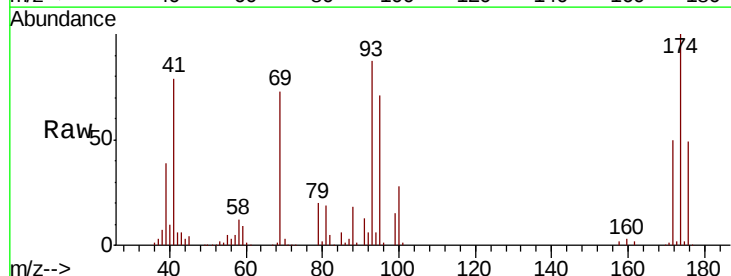
Tgt Ion: 93 Resp: 134436

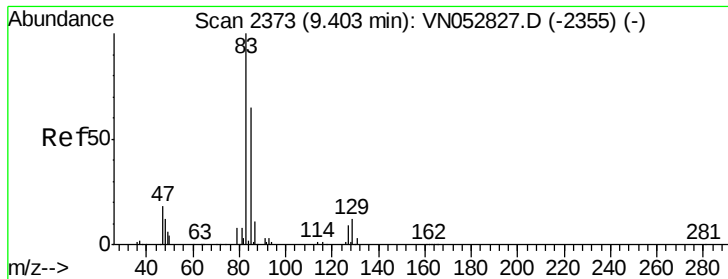
Ion Ratio Lower Upper

93 100

95 82.9 67.8 101.6

174 112.6 89.0 133.4





#47

Bromodichloromethane

Concen: 19.632 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

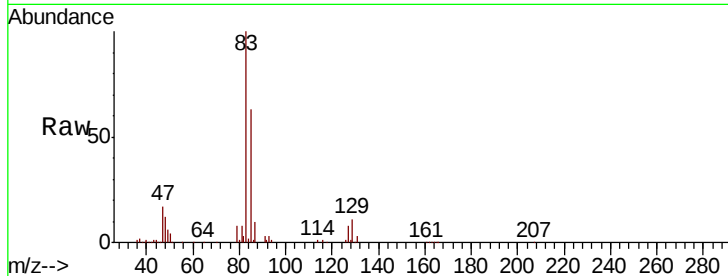
ClientSampleId :

VN1213MBS01

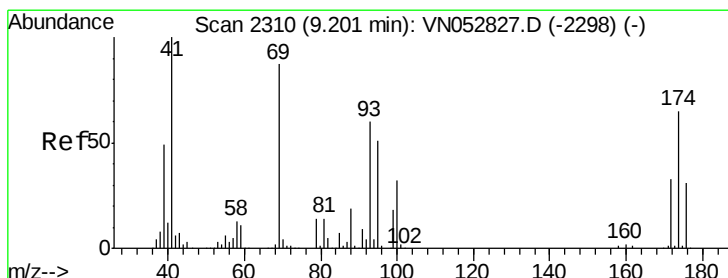
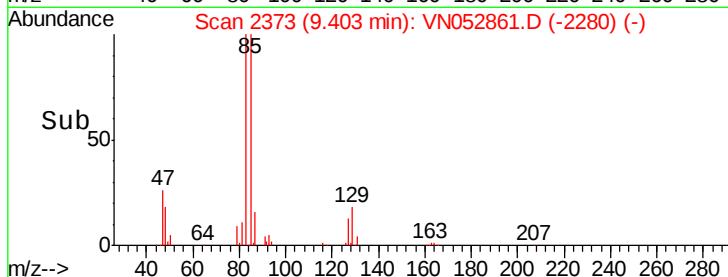
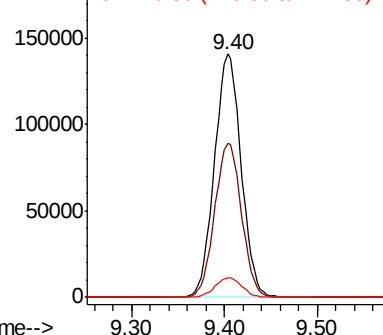
Tot Ion:	83	Resp:	280745
Ion Ratio	Lower	Upper	
83	100		
85	63.4	51.6	77.4
127	8.0	7.1	10.7

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 AM



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



#48

Methyl methacrylate

Concen: 19.184 ug/l

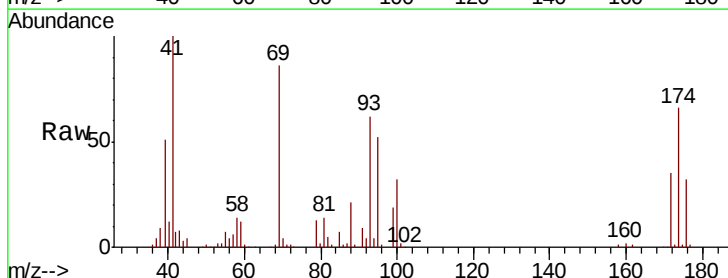
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

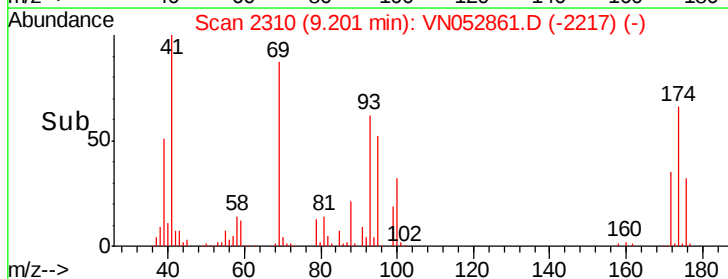
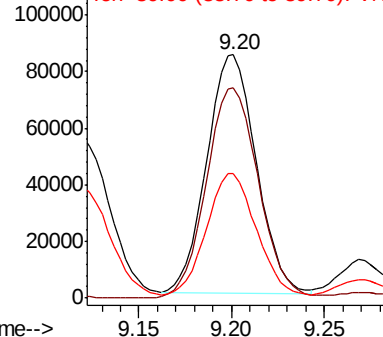
Lab File: VN052861.D

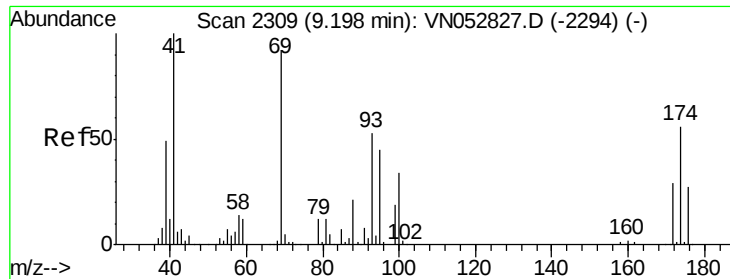
Acq: 13 Dec 2018 13:47

Tgt Ion:	41	Resp:	156739
Ion Ratio	Lower	Upper	
41	100		
69	93.2	72.2	108.2
39	53.2	41.9	62.9



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





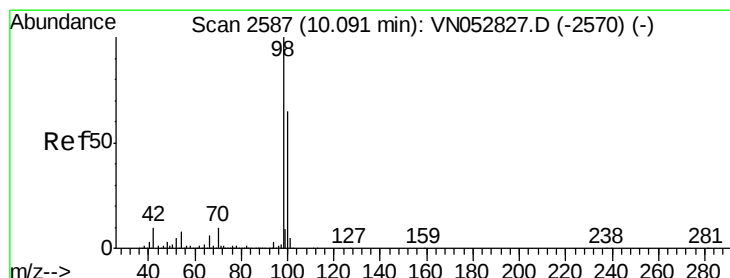
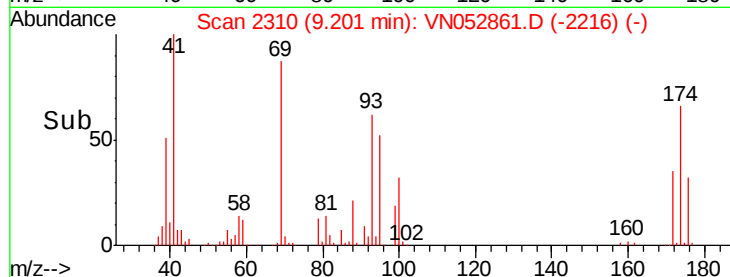
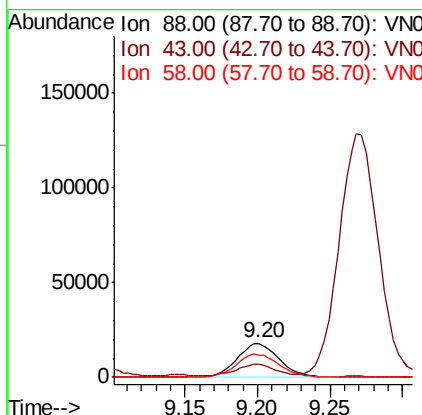
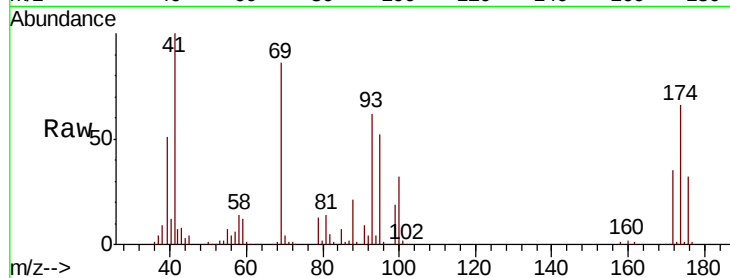
#49
1,4-Dioxane
Concen: 391.646 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBSD01

Tot Ion	88	Resp	36321
Ion	Ratio	Lower	Upper
88	100		
43	29.9	26.6	40.0
58	69.9	58.4	87.6

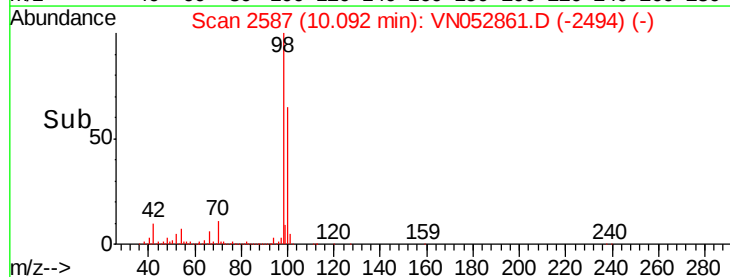
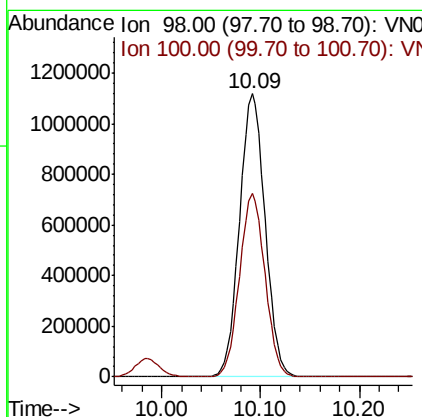
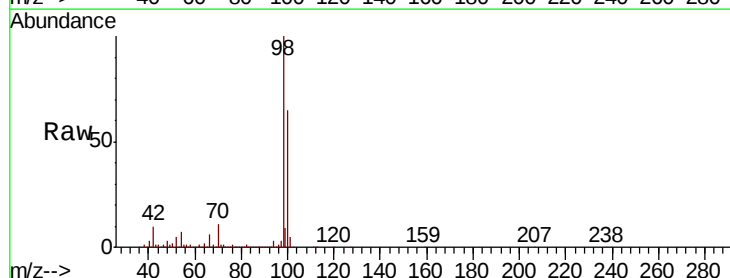
Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 AM



#50
Toluene-d8
Concen: 391.646 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	98	Resp	2005935
Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.6	77.4





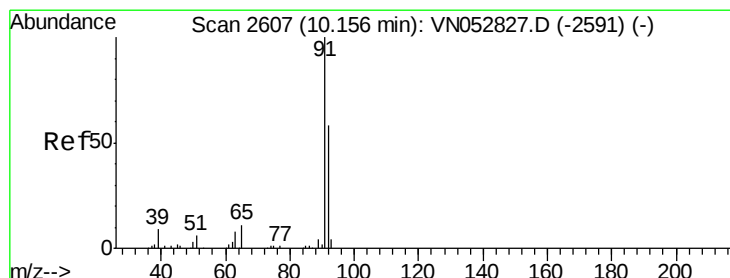
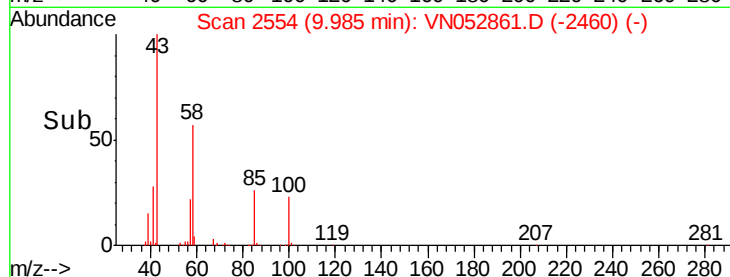
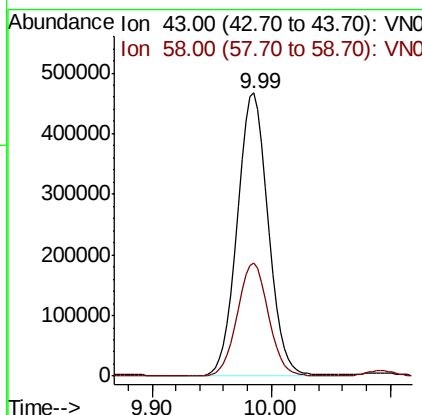
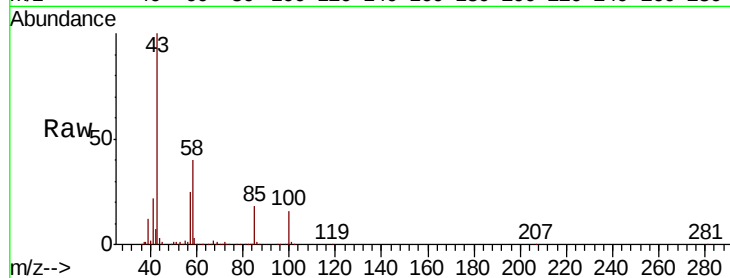
#51
4-Methyl-2-Pentanone
Concen: 98.475 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.3	32.2	48.4

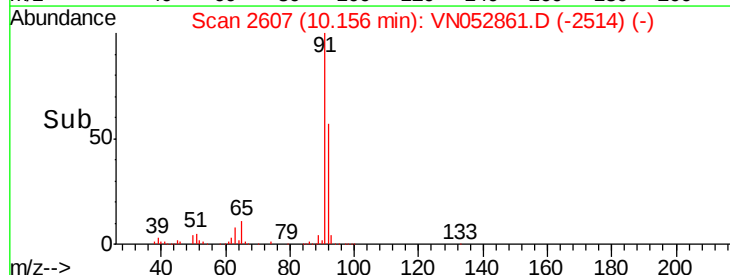
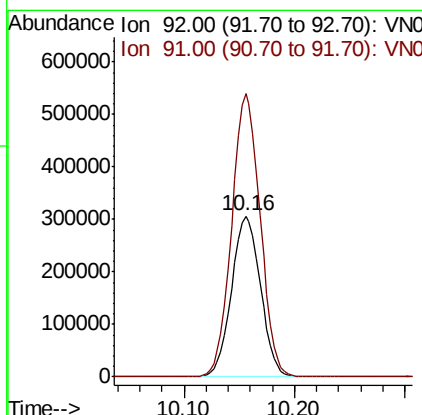
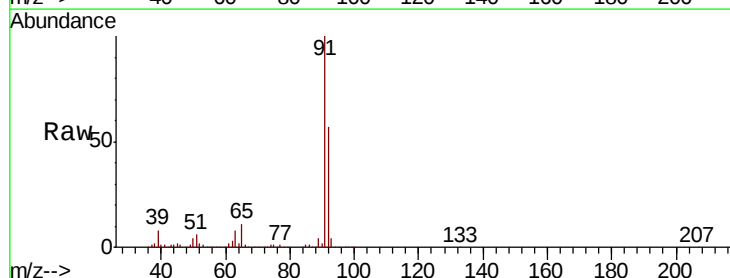
Manual Integrations
APPROVED

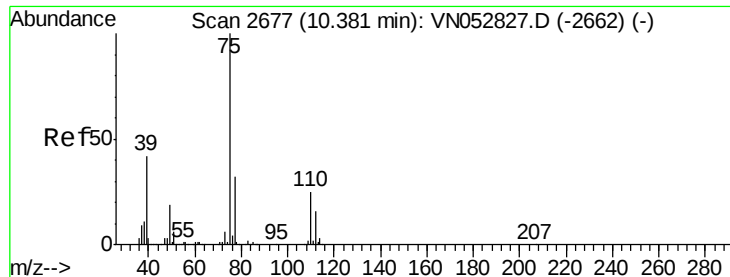
MMDadoda
12/14/2018 9:02:32 AM



#52
Toluene
Concen: 20.189 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.7	139.8	209.6





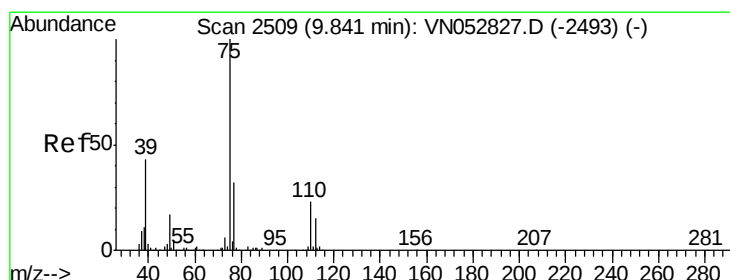
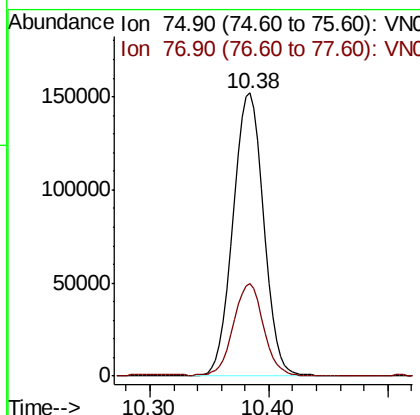
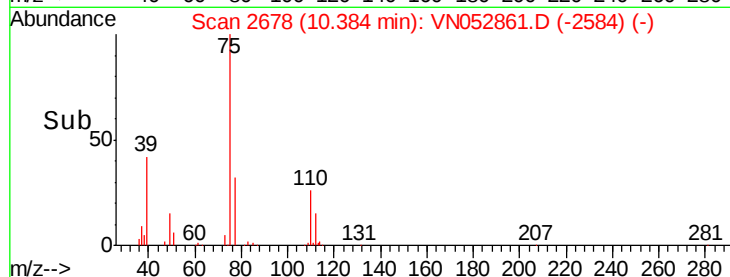
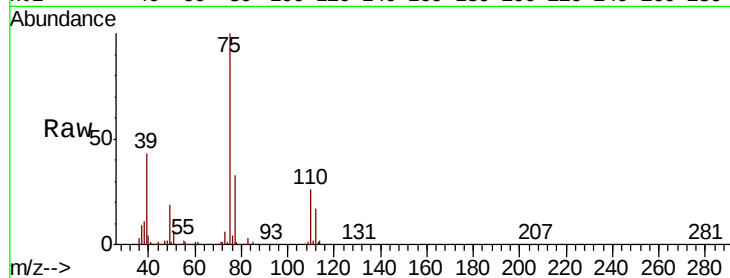
#53
t-1,3-Dichloropropene
Concen: 18.885 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.6	38.4

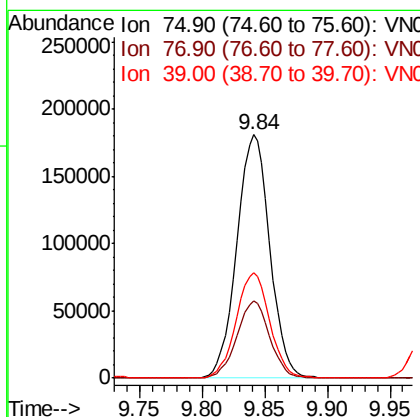
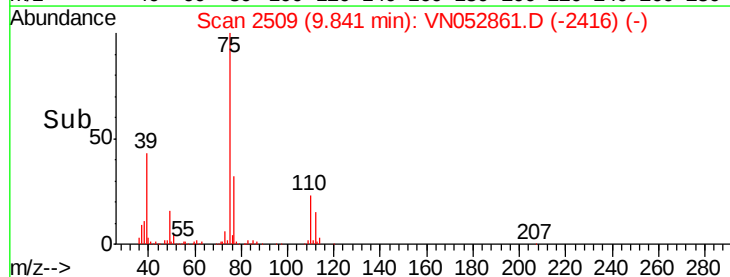
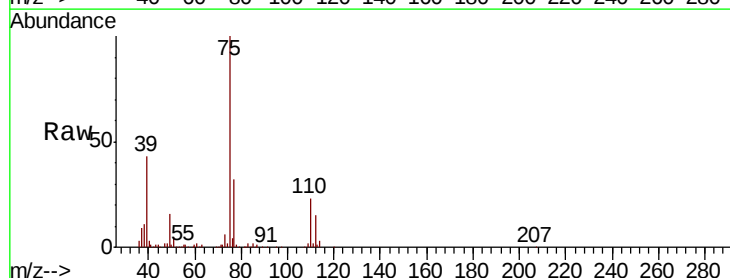
Manual Integrations
APPROVED

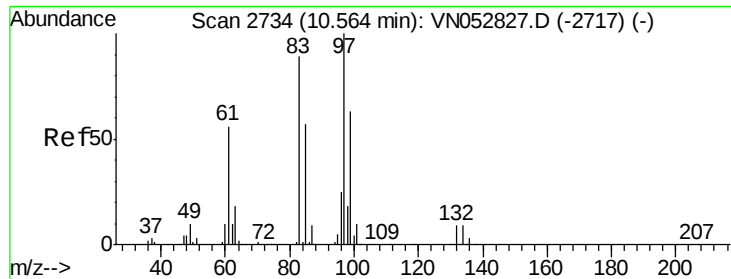
MMDadoda
12/14/2018 9:02:32 AM



#54
cis-1,3-Dichloropropene
Concen: 19.308 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.8	38.8
39	43.1	34.8	52.2





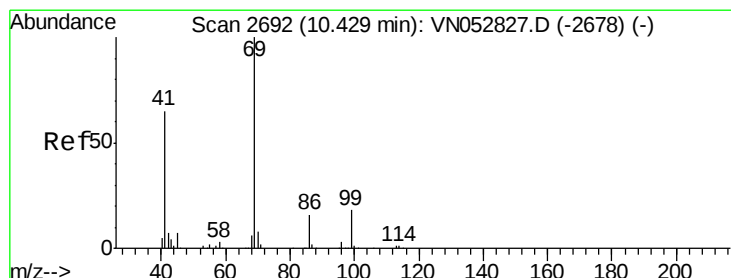
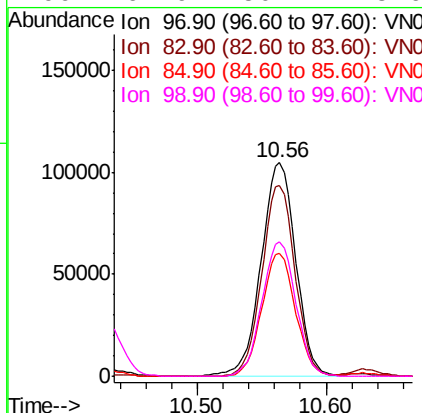
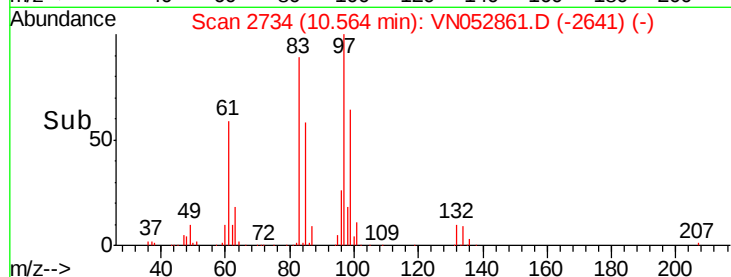
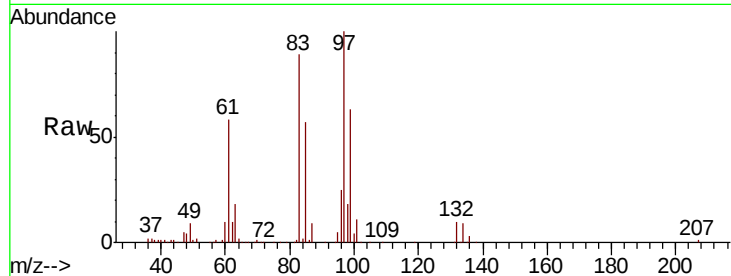
#55
 1,1,2-Trichloroethane
 Concen: 19.990 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213MBS01

Tot Ion:	97	Resp:	196214
Ion	Ratio	Lower	Upper
97	100		
83	89.5	70.9	106.3
85	57.3	45.4	68.2
99	62.9	50.4	75.6

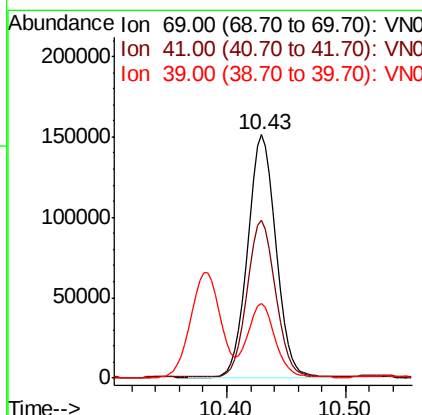
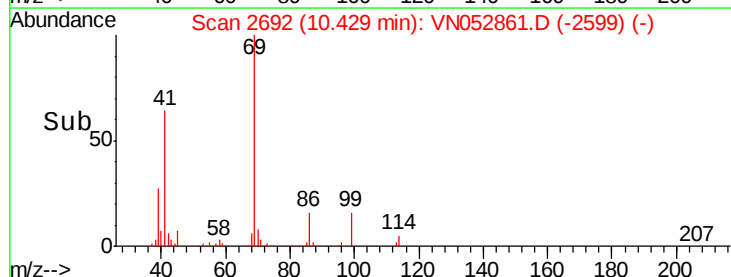
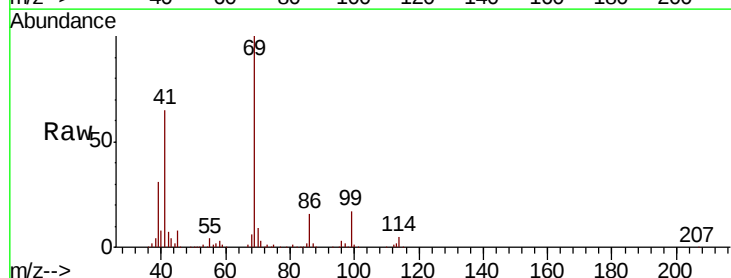
Manual Integrations
 APPROVED

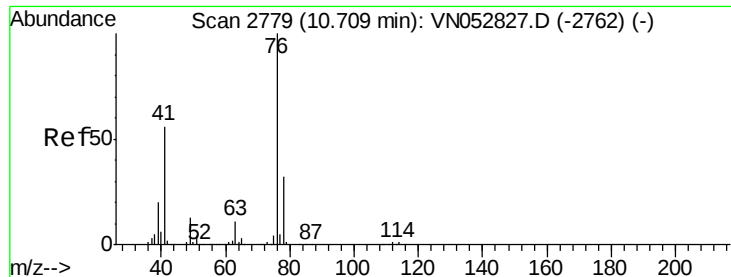
MMDadoda
 12/14/2018 9:02:32 AM



#56
 Ethyl methacrylate
 Concen: 19.767 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Tgt Ion:	69	Resp:	248996
Ion	Ratio	Lower	Upper
69	100		
41	64.8	51.7	77.5
39	29.7	24.6	37.0





#57

1,3-Dichloropropane

Concen: 19.995 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

VN1213MBSD01

Tot Ion: 76 Resp: 336549

Ion Ratio Lower Upper

76 100

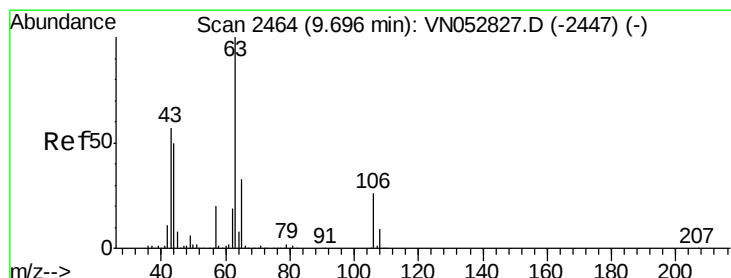
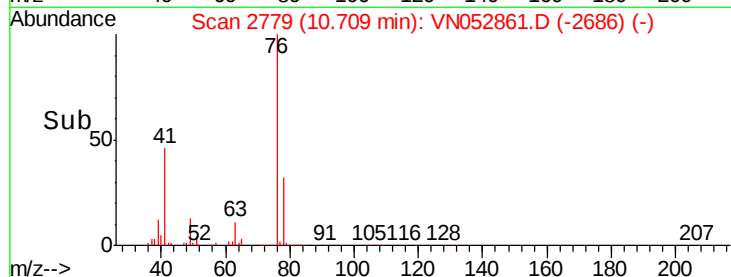
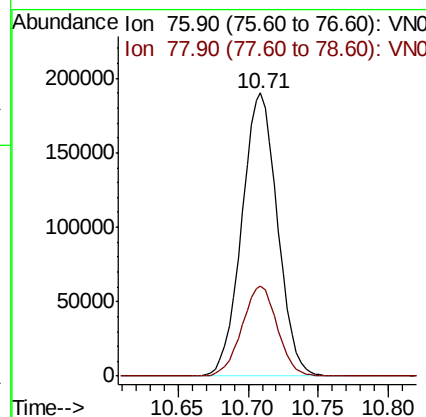
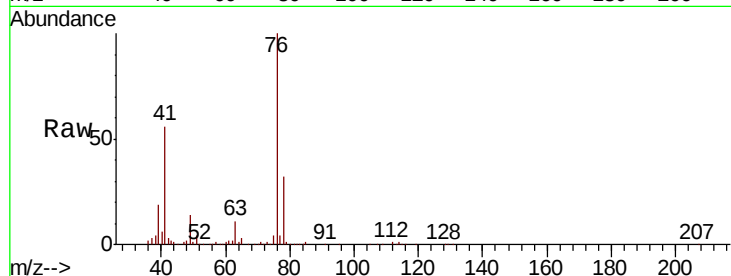
78 31.5 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:02:32 AM



#58

2-Chloroethyl Vinyl ether

Concen: 99.639 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052861.D

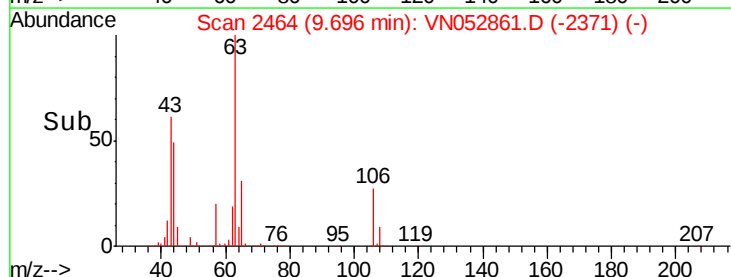
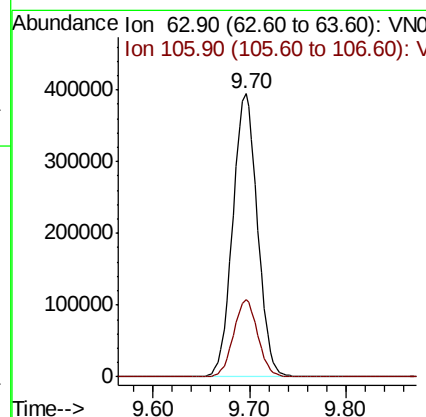
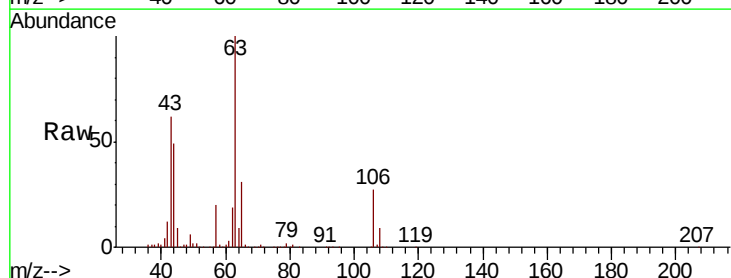
Acq: 13 Dec 2018 13:47

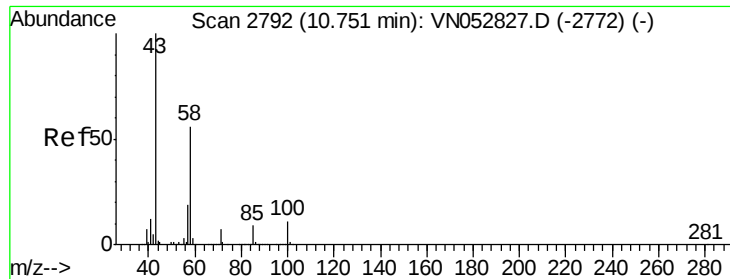
Tgt Ion: 63 Resp: 700321

Ion Ratio Lower Upper

63 100

106 26.7 21.0 31.6





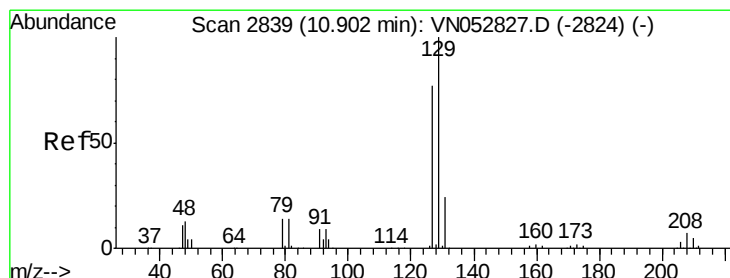
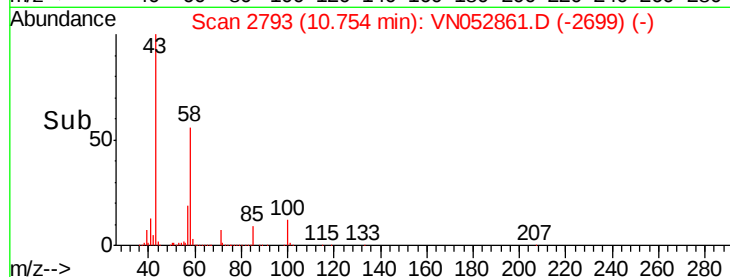
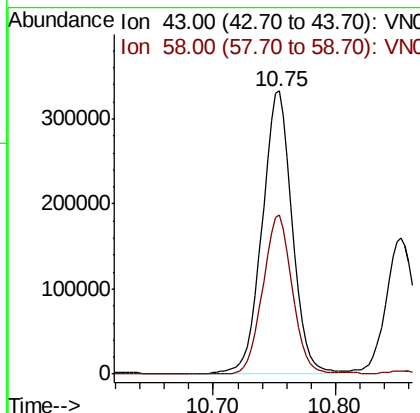
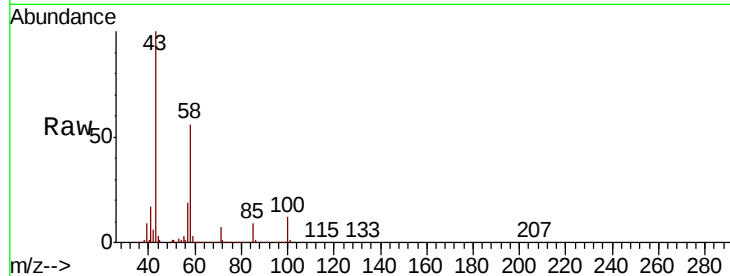
#59
2-Hexanone
Concen: 96.912 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion: 43 Resp: 567380
Ion Ratio Lower Upper
43 100
58 55.8 28.1 84.3

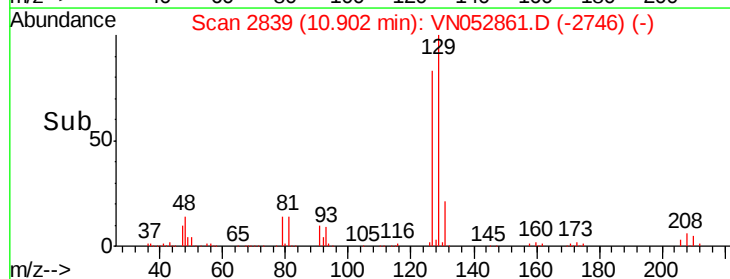
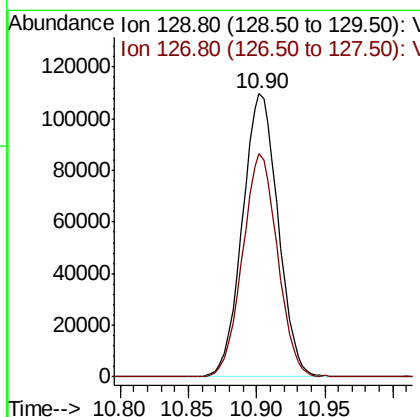
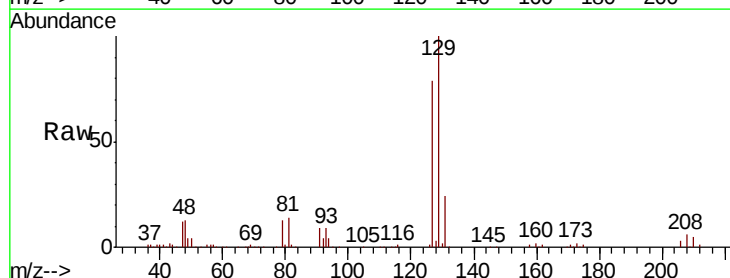
Manual Integrations
APPROVED

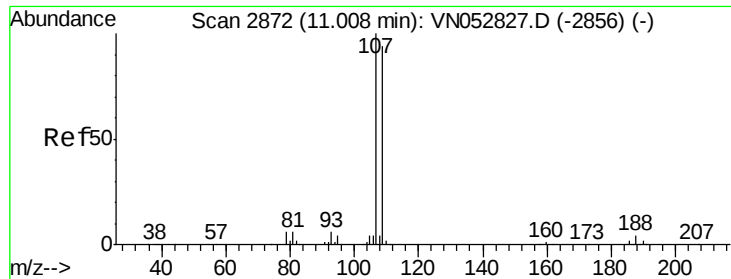
MMDadoda
12/14/2018 9:02:32 AM



#60
Dibromochloromethane
Concen: 18.730 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion:129 Resp: 198688
Ion Ratio Lower Upper
129 100
127 77.4 38.6 116.0





#61

1,2-Dibromoethane

Concen: 19.596 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

VN1213MBSD01

Tot Ion: 107 Resp: 190121

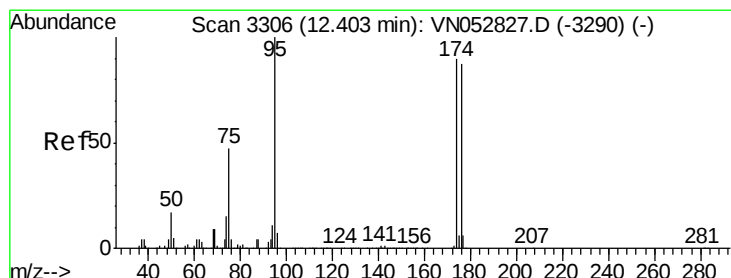
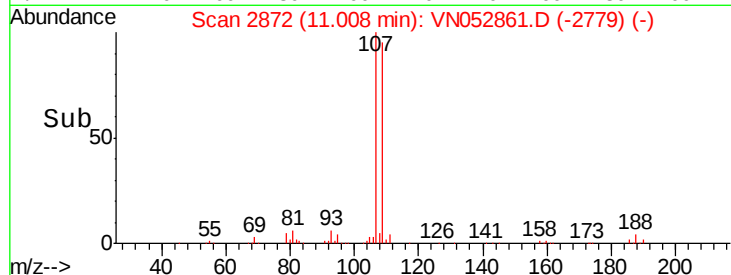
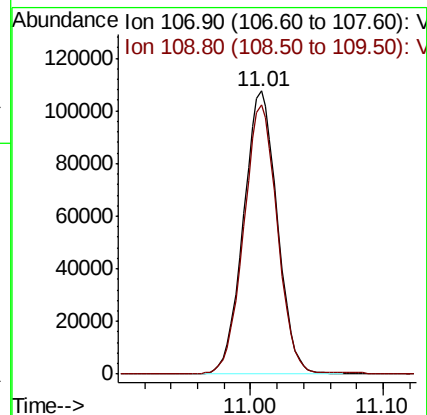
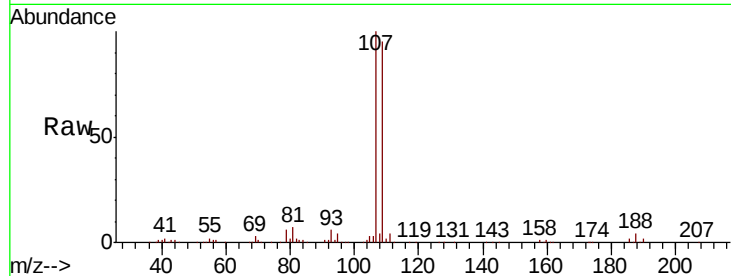
Ion Ratio Lower Upper

107 100

109 95.0 75.4 113.0

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 AM



#62

4-Bromofluorobenzene

Concen: 19.596 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

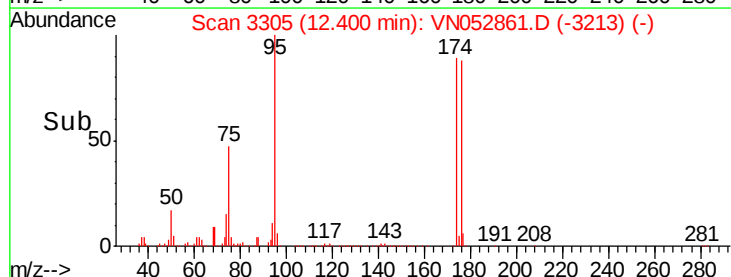
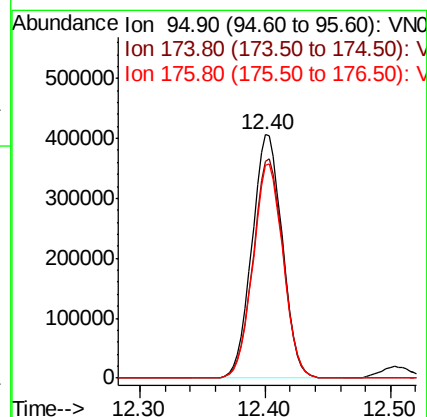
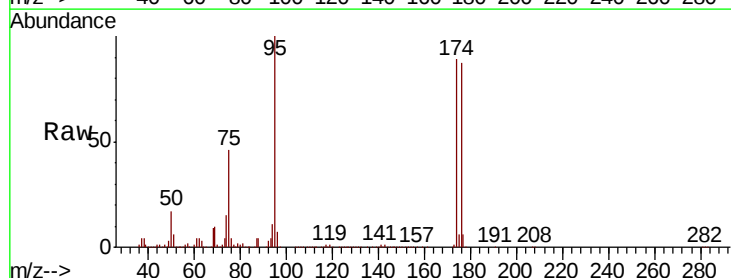
Tgt Ion: 95 Resp: 682910

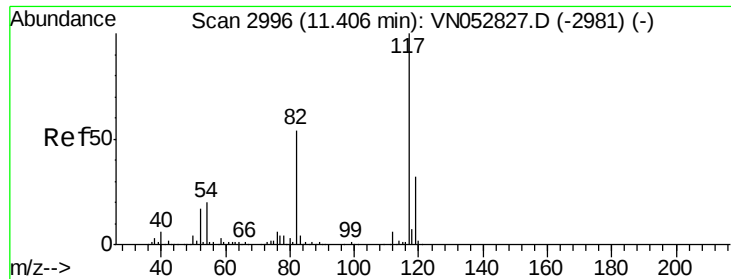
Ion Ratio Lower Upper

95 100

174 89.7 0.0 178.8

176 87.2 0.0 173.8





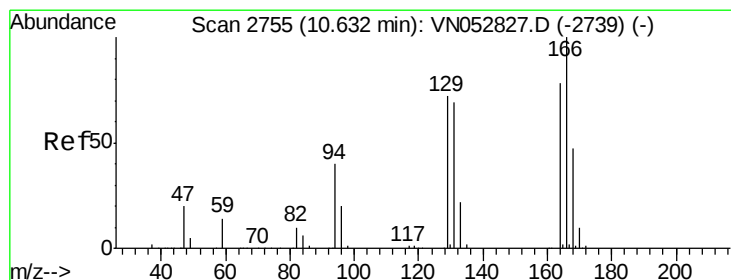
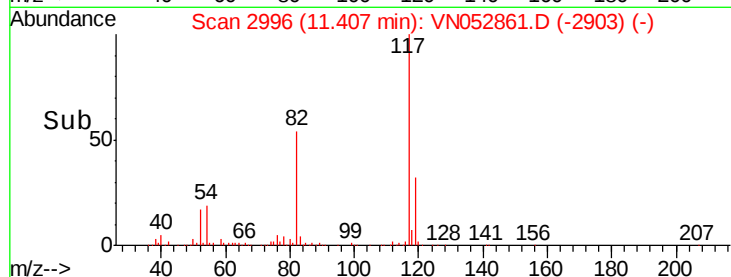
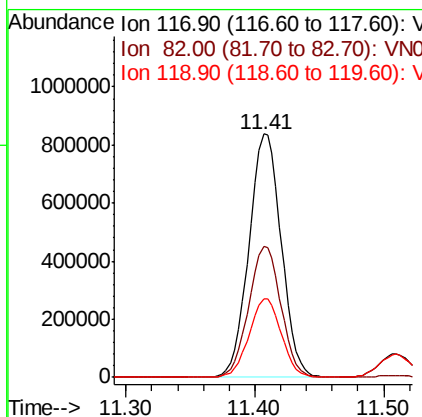
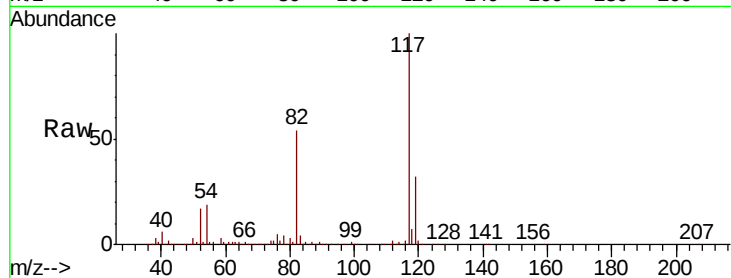
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBSD01

Tot Ion:117 Resp: 1465450
Ion Ratio Lower Upper
117 100
82 53.7 42.8 64.2
119 32.0 25.5 38.3

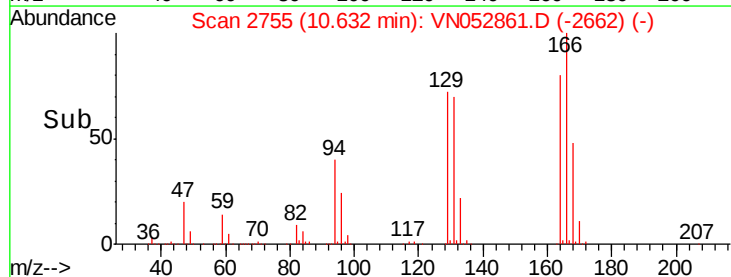
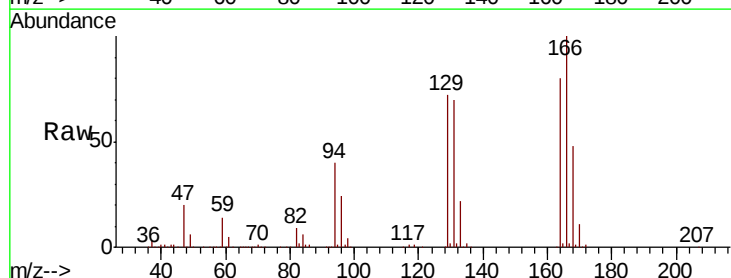
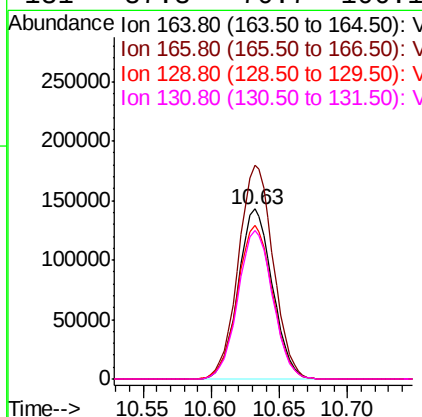
Manual Integrations
APPROVED

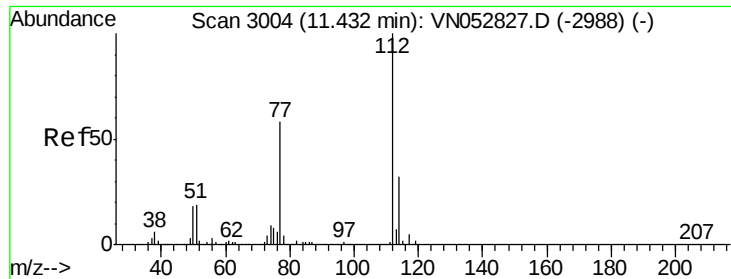
MMDadoda
12/14/2018 9:02:32 AM



#64
Tetrachloroethene
Concen: 19.840 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion:164 Resp: 249891
Ion Ratio Lower Upper
164 100
166 125.5 102.9 154.3
129 90.0 73.7 110.5
131 87.3 70.7 106.1





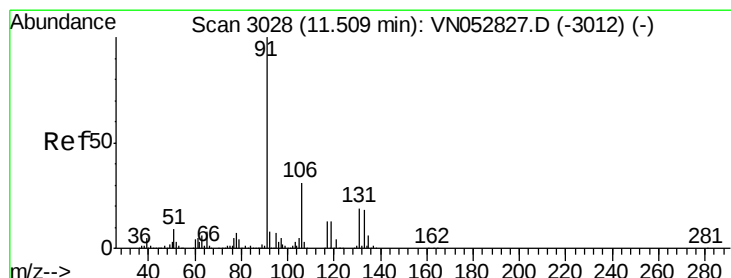
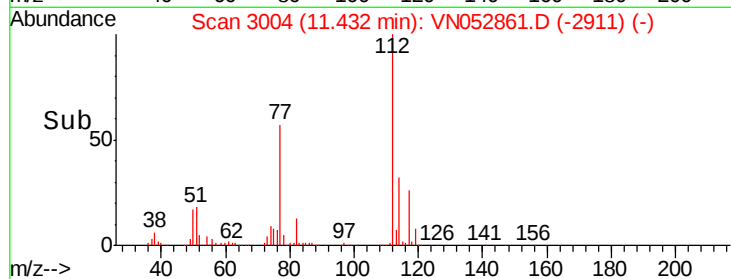
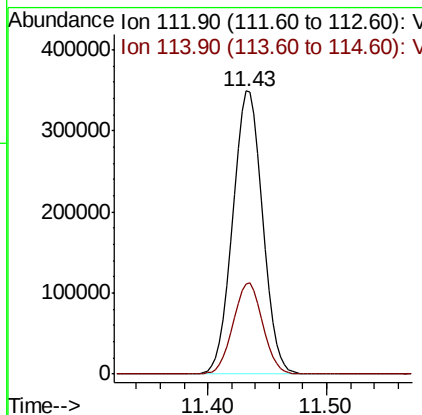
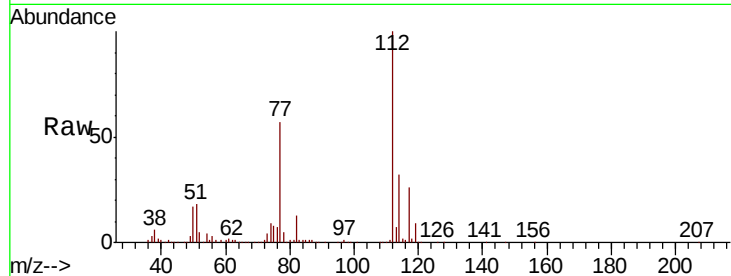
#65
Chlorobenzene
Concen: 19.986 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.5	38.3

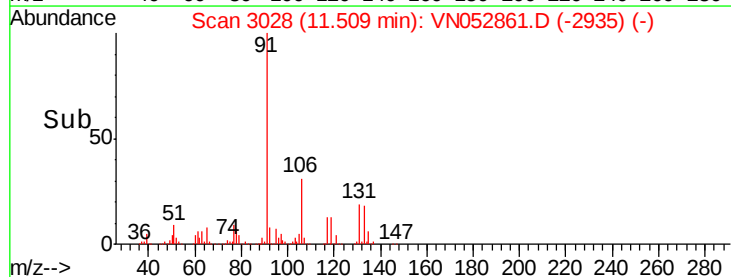
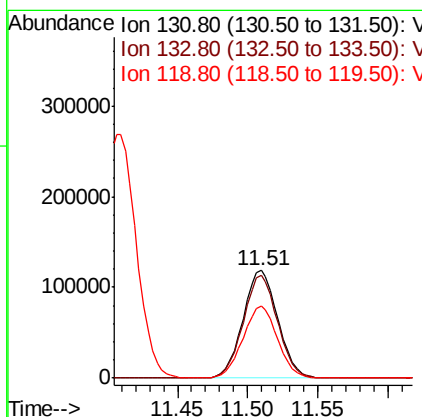
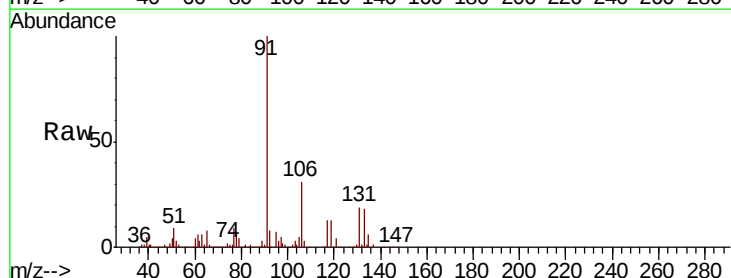
Manual Integrations
APPROVED

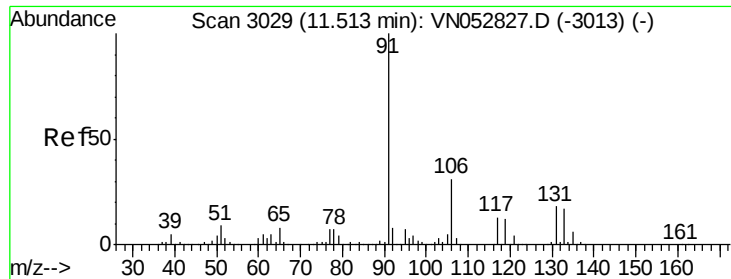
MMDadoda
12/14/2018 9:02:32 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.442 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.4	47.6	142.9
119	66.0	33.3	99.8





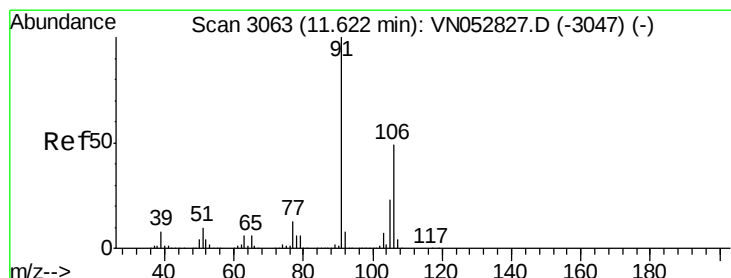
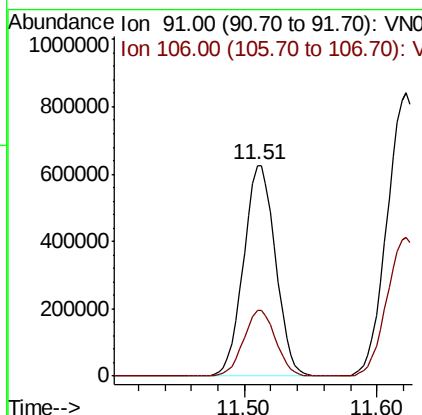
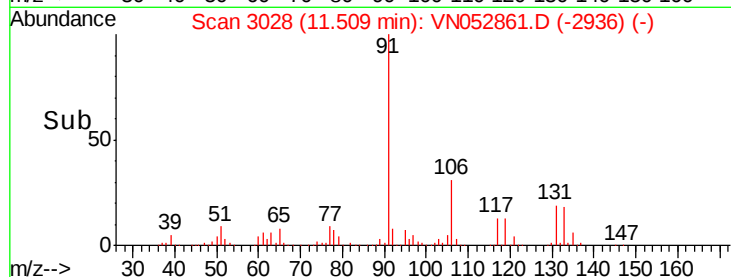
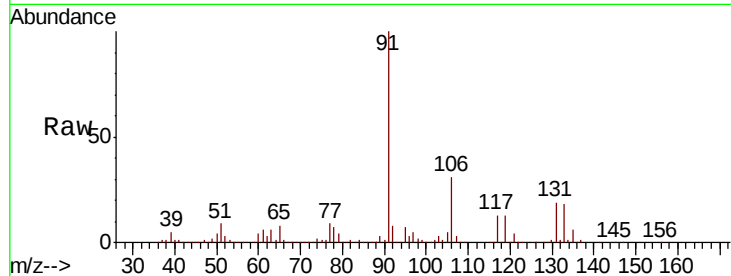
#67
Ethyl Benzene
Concen: 20.067 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion: 91 Resp: 1047694
Ion Ratio Lower Upper
91 100
106 31.0 24.9 37.3

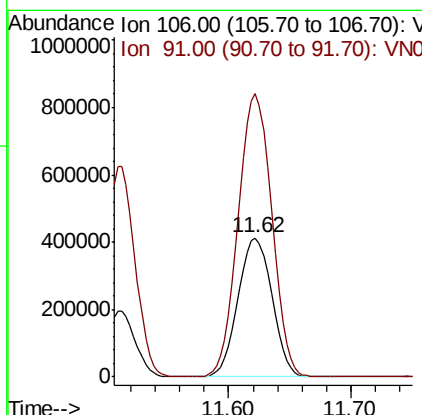
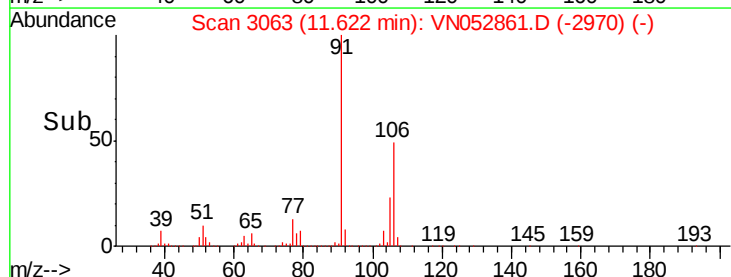
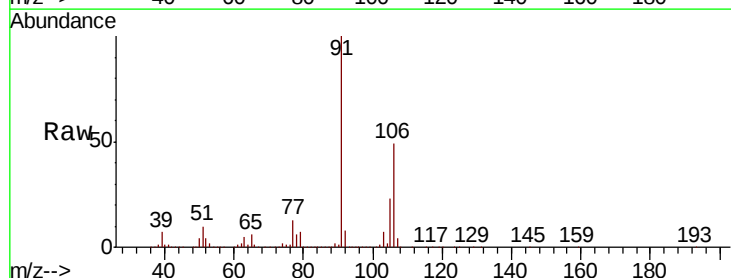
Manual Integrations
APPROVED

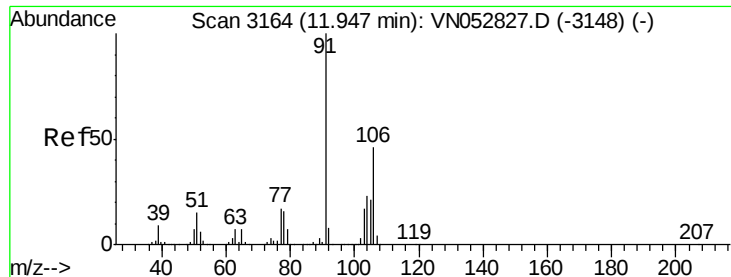
MMDadoda
12/14/2018 9:02:32 AM



#68
m/p-Xylenes
Concen: 40.461 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion: 106 Resp: 793225
Ion Ratio Lower Upper
106 100
91 202.1 162.2 243.4





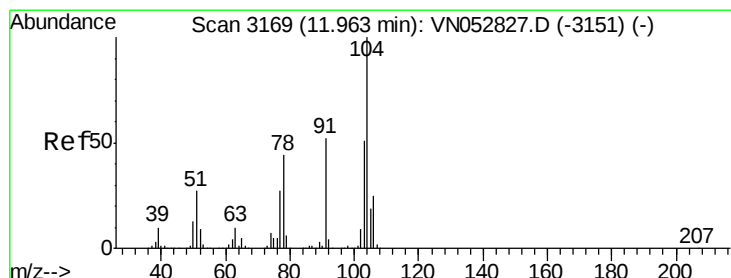
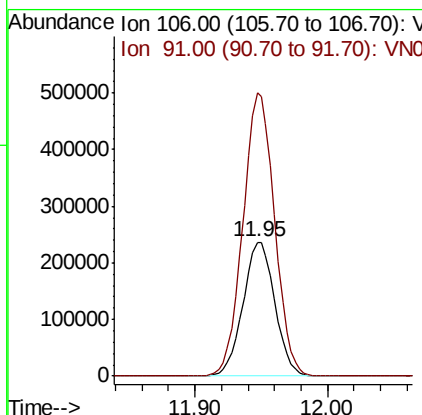
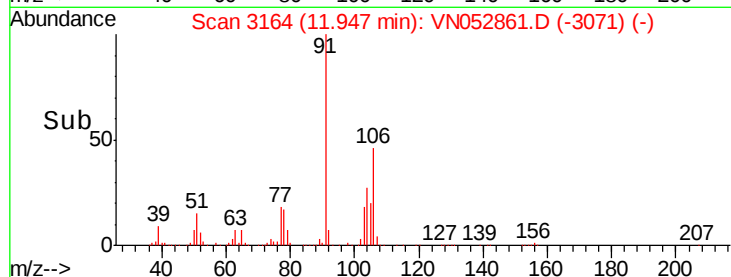
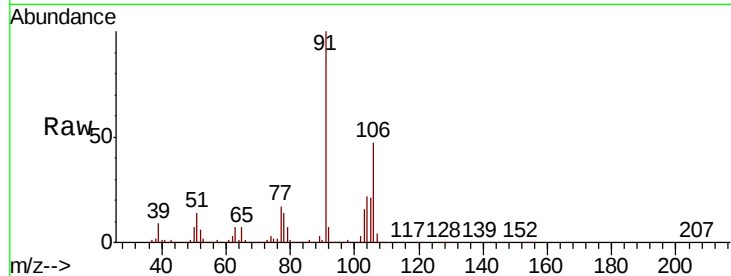
#69
o-Xylene
Concen: 20.546 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion:106 Resp: 393322
Ion Ratio Lower Upper
106 100
91 209.9 106.6 319.8

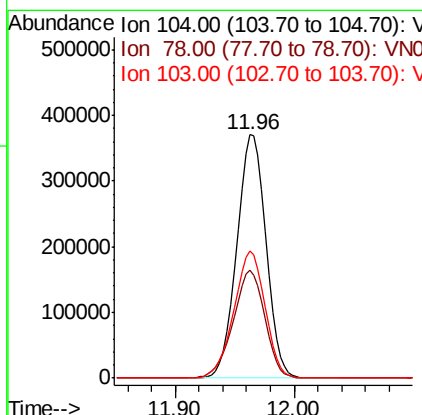
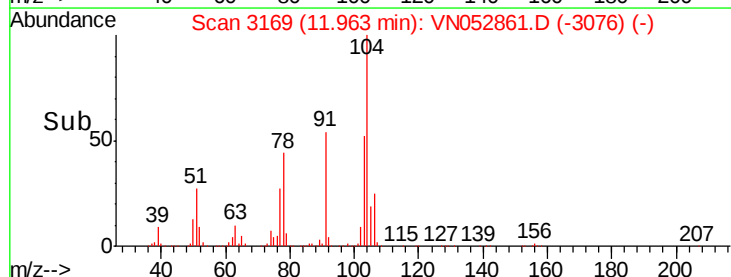
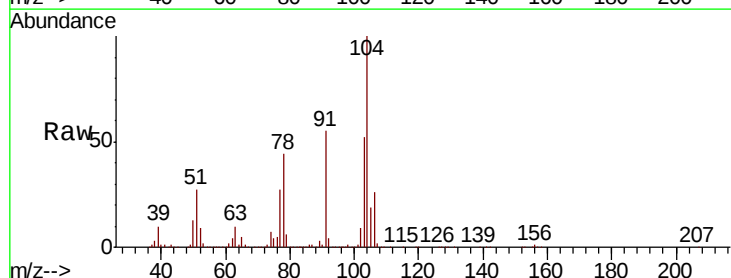
Manual Integrations
APPROVED

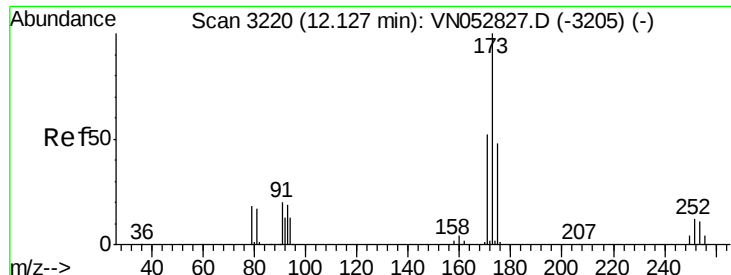
MMDadoda
12/14/2018 9:02:32 AM



#70
Styrene
Concen: 20.490 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion:104 Resp: 630564
Ion Ratio Lower Upper
104 100
78 48.1 38.9 58.3
103 55.8 44.3 66.5





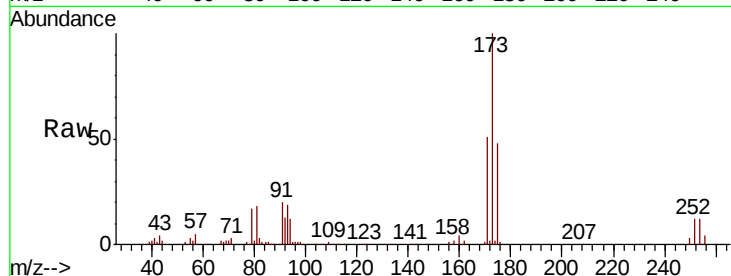
#71
Bromoform
Concen: 18.069 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.3	72.9
254	0.0	0.1	0.1

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 AM

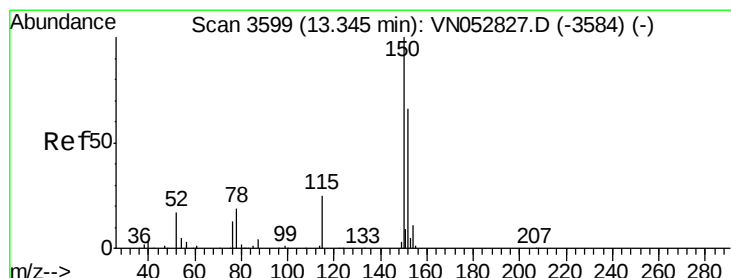
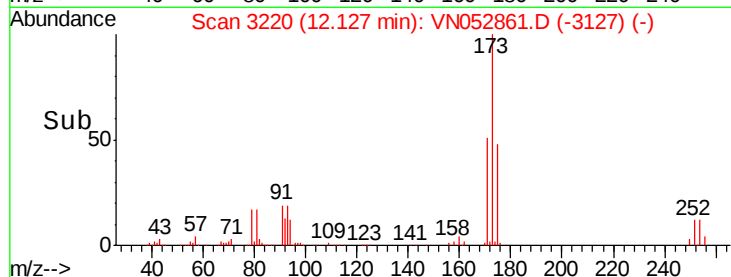
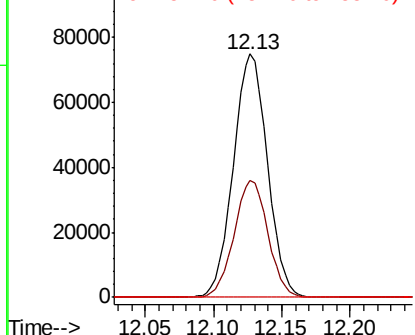


Abundance

Ion 172.70 (172.40 to 173.40): V

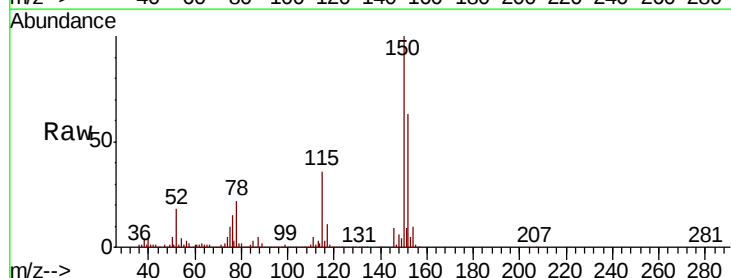
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	28.3	85.0
150	163.4	0.0	347.8

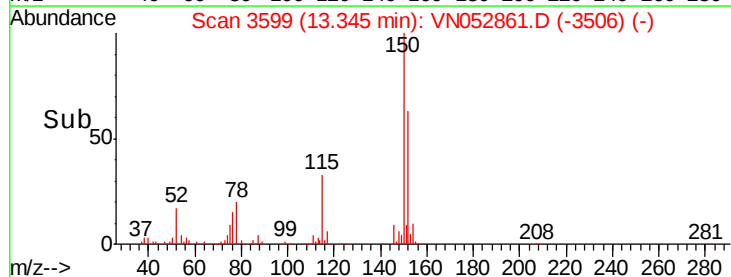
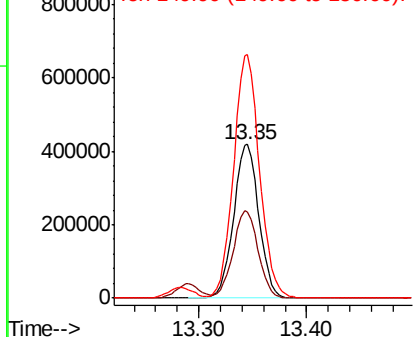


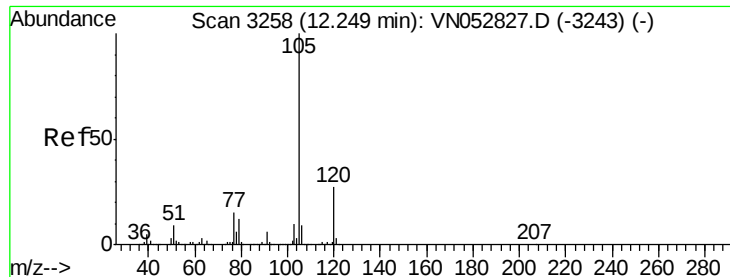
Abundance

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: 20.302 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

VN1213MBS01

Tot Ion: 105 Resp: 1032039

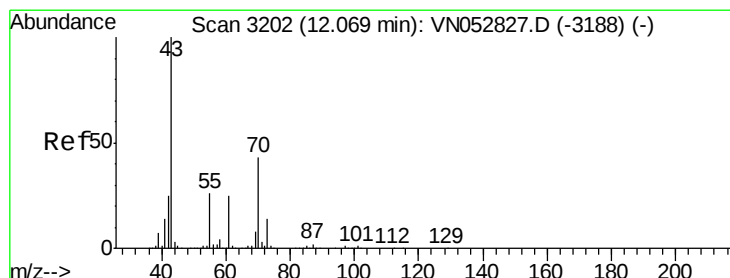
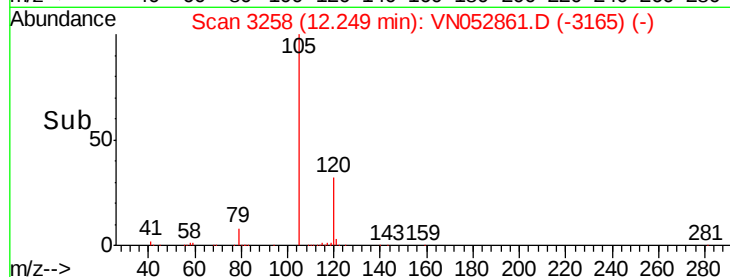
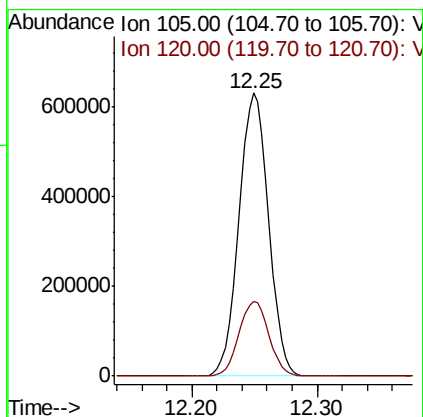
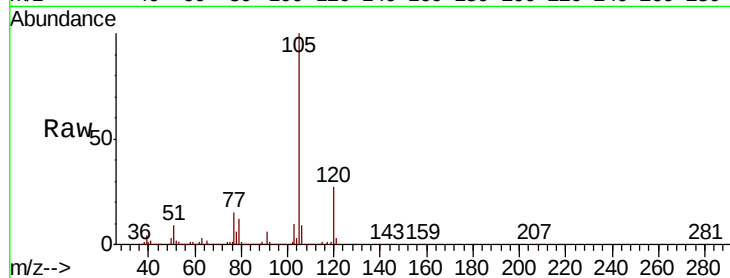
Ion Ratio Lower Upper

105 100

120 26.7 13.3 39.9

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 AM



#74

N-ethyl acetate

Concen: 19.830 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Tgt Ion: 43 Resp: 276749

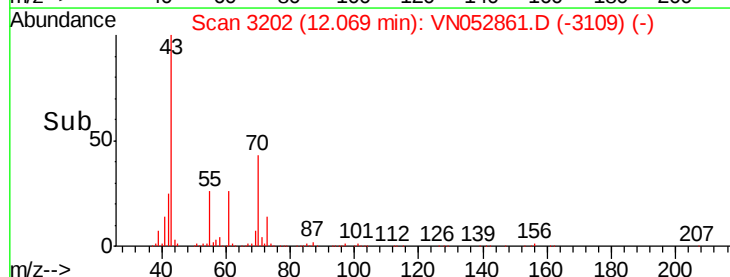
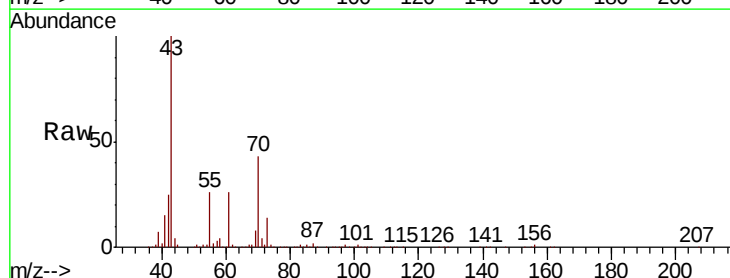
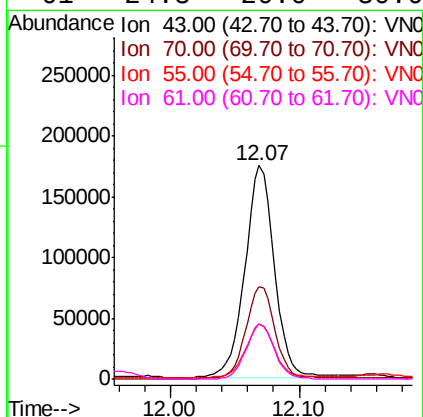
Ion Ratio Lower Upper

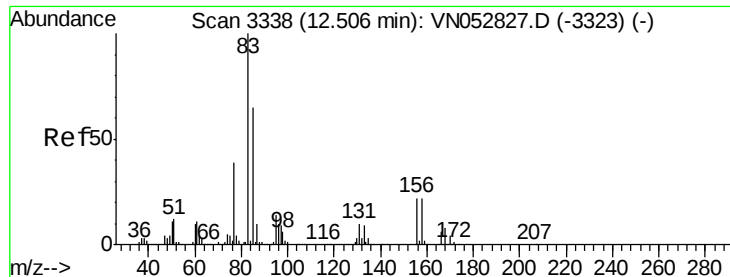
43 100

70 43.0 34.2 51.4

55 25.1 20.3 30.5

61 24.8 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.017 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

VN1213MBSD01

Tot Ion: 83 Resp: 216657
Ion Ratio Lower Upper

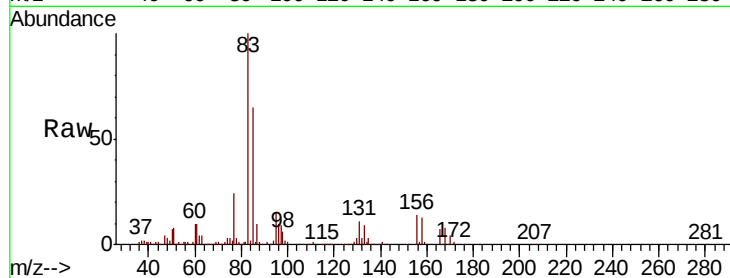
83 100

131 11.4 5.2 15.6

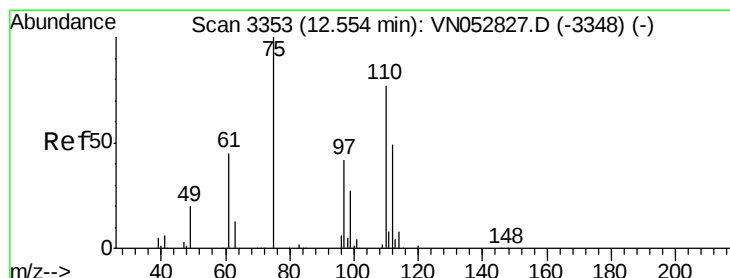
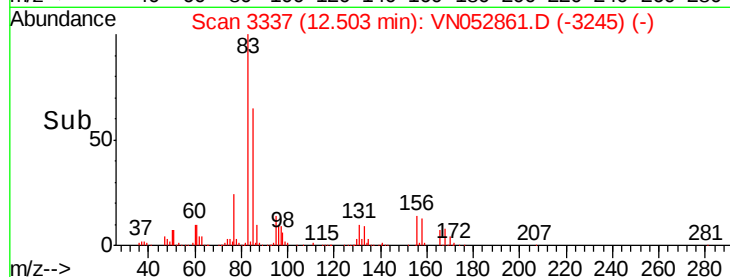
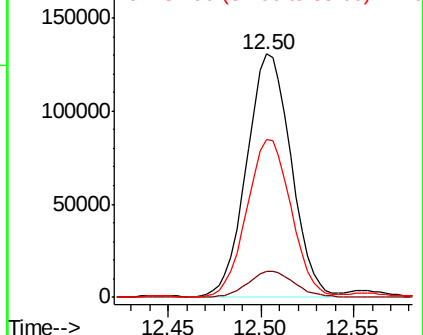
85 64.8 32.4 97.0

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 AM



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



#76

1,2,3-Trichloropropane

Concen: 18.942 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

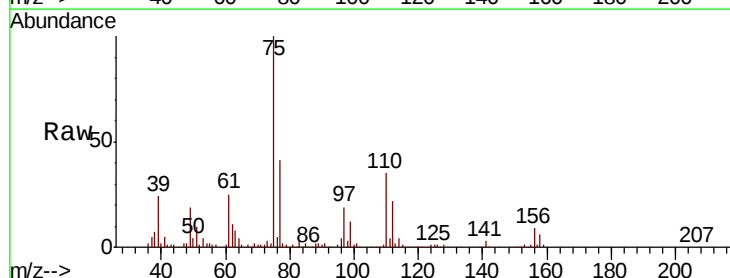
Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

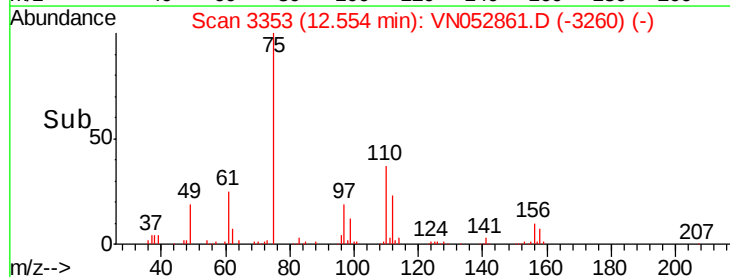
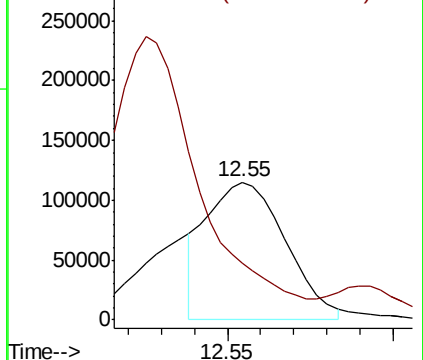
Tgt Ion: 75 Resp: 190270
Ion Ratio Lower Upper

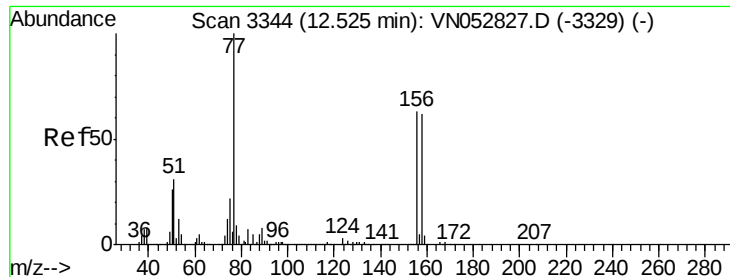
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 21.997 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

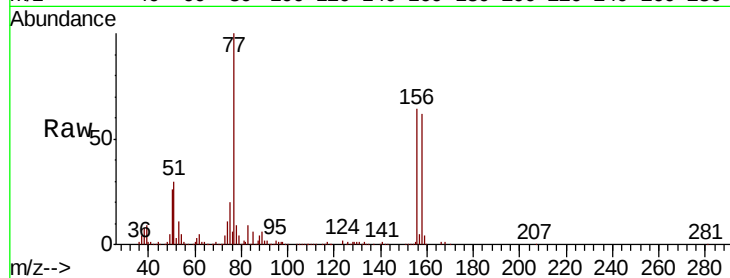
ClientSampleId :

VN1213MBS01

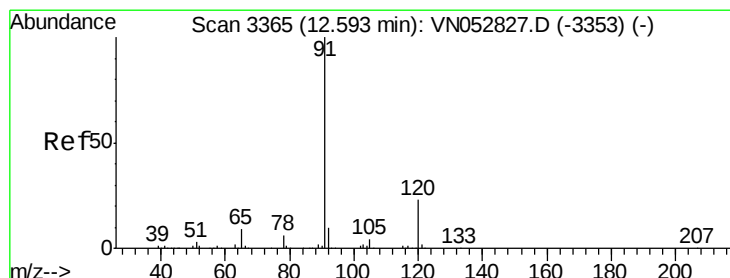
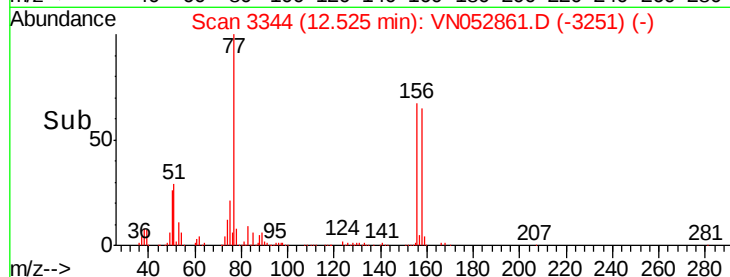
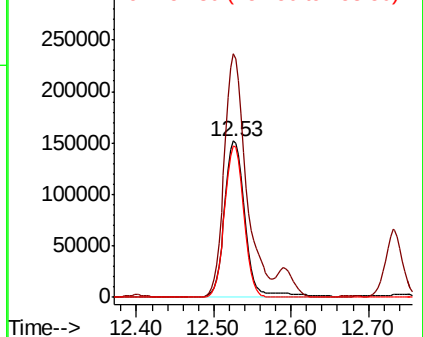
Tot Ion:	156	Resp:	284407
Ion Ratio	Lower	Upper	
156	100		
77	164.4	91.3	273.8
158	89.2	49.0	147.2

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 AM



Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VN
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.229 ug/l

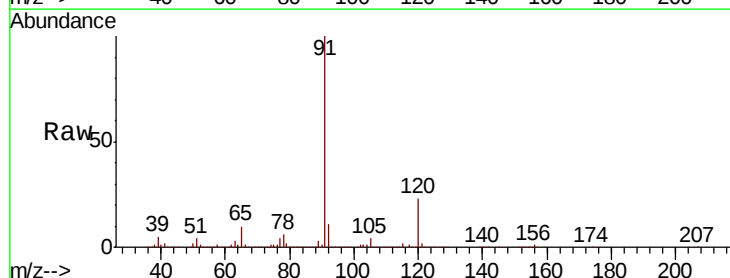
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

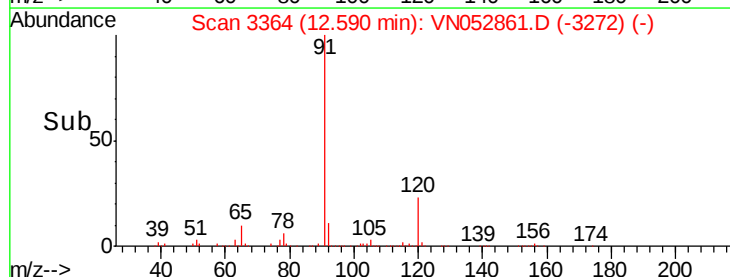
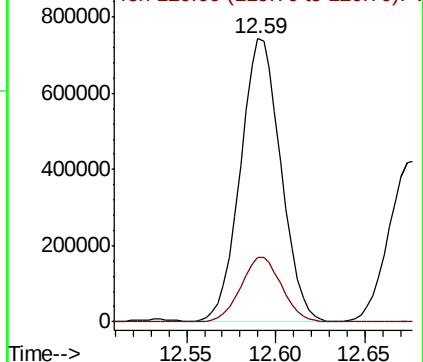
Lab File: VN052861.D

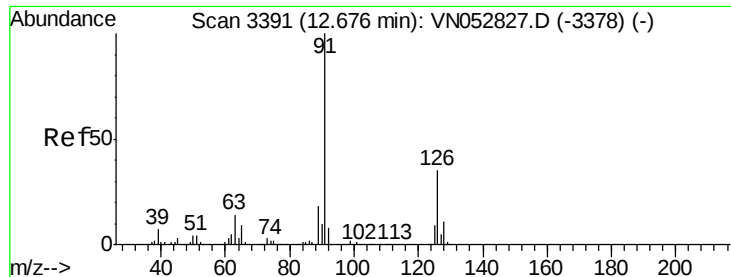
Acq: 13 Dec 2018 13:47

Tgt Ion:	91	Resp:	1172799
Ion Ratio	Lower	Upper	
91	100		
120	23.1	11.5	34.5



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.098 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052861.D

Acq: 13 Dec 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

VN1213MBS01

Tot Ion: 91 Resp: 688836

Ion Ratio Lower Upper

91 100

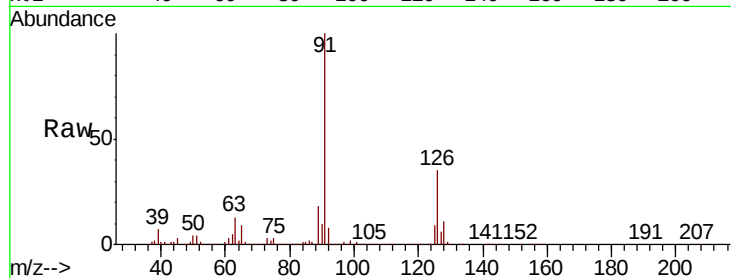
126 35.0 17.4 52.3

Manual Integrations

APPROVED

MMDadoda

12/14/2018 9:02:32 AM



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

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

600000

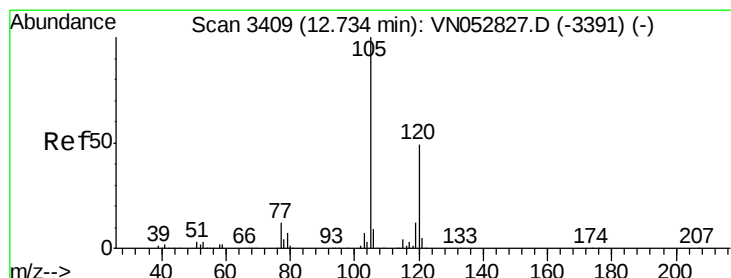
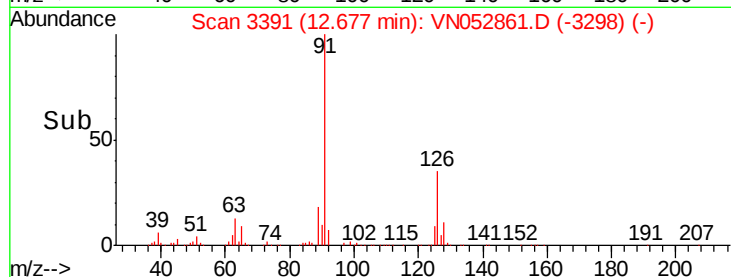
400000

200000

0

12.68

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.197 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052861.D

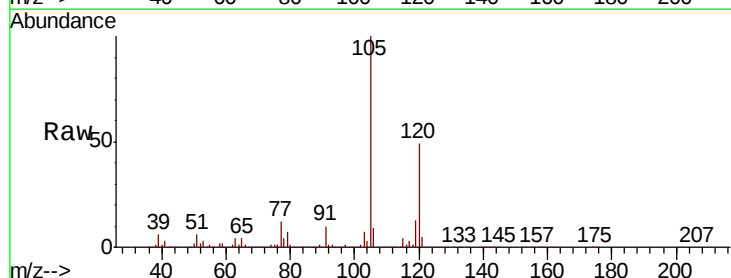
Acq: 13 Dec 2018 13:47

Tgt Ion: 105 Resp: 828812

Ion Ratio Lower Upper

105 100

120 49.4 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

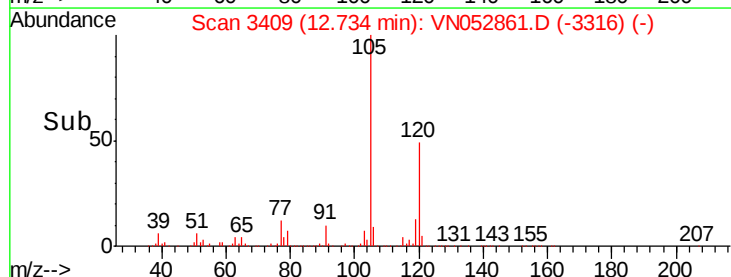
200000

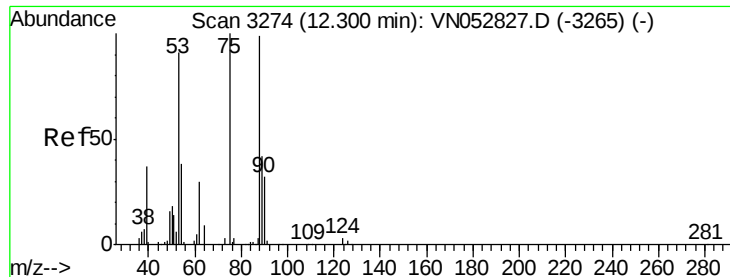
100000

0

12.73

Time-->





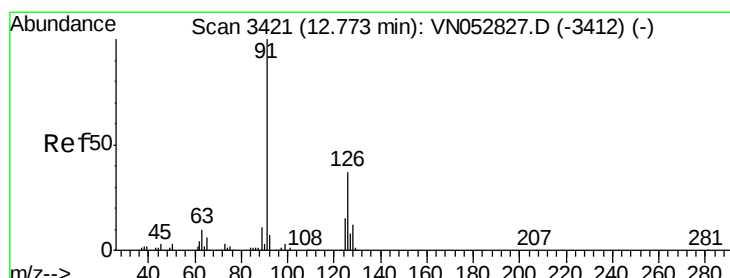
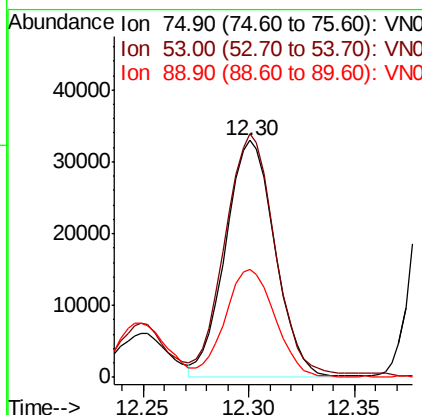
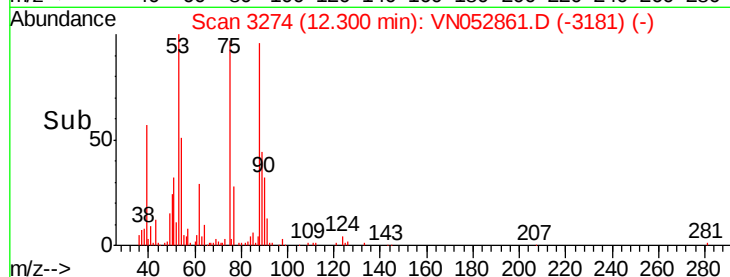
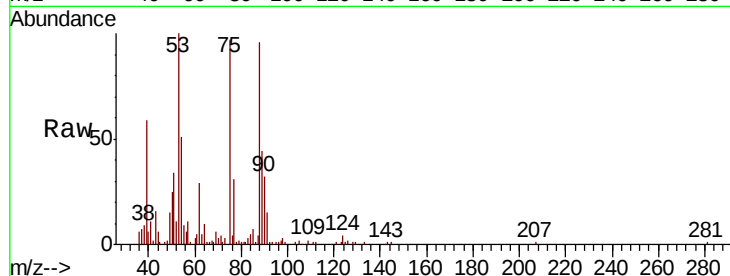
#81
trans-1,4-Dichloro-2-butene
Concen: 17.152 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.7	74.7	112.1
89	45.8	36.1	54.1

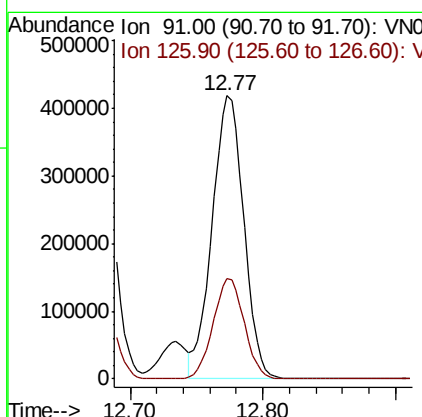
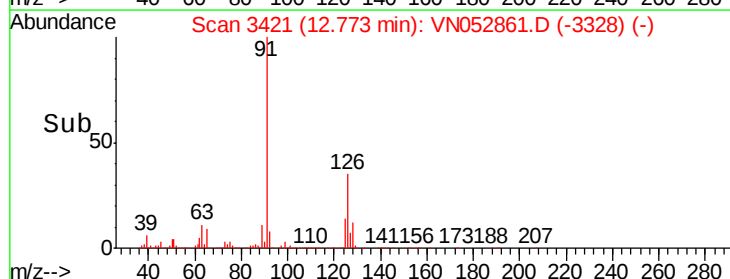
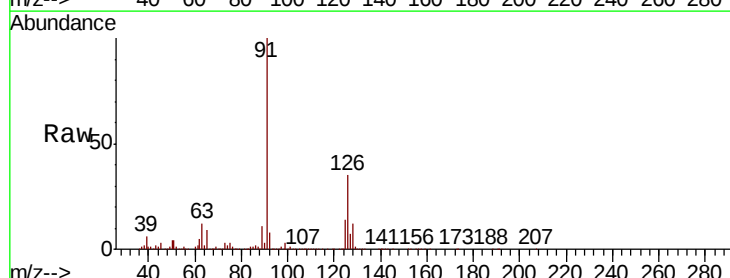
Manual Integrations
APPROVED

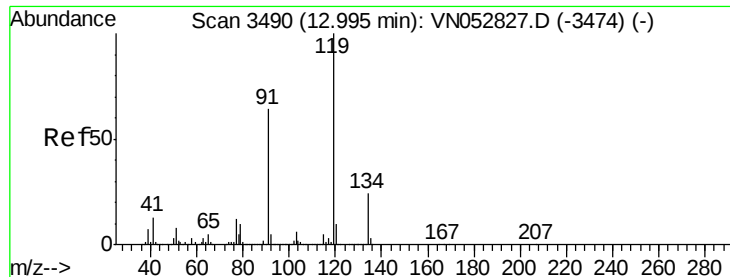
MMDadoda
12/14/2018 9:02:32 AM



#82
4-Chlorotoluene
Concen: 19.750 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	51.7





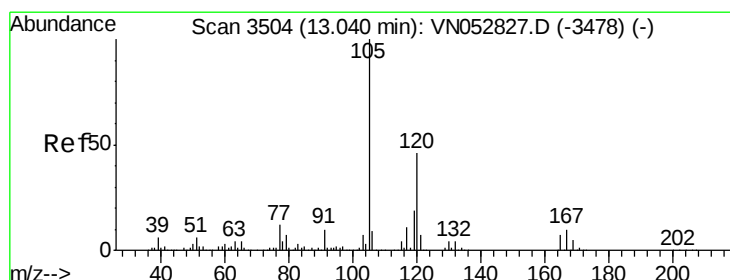
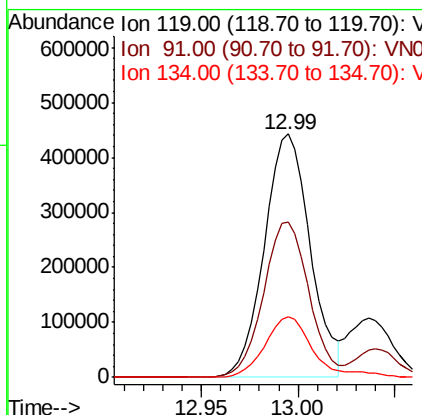
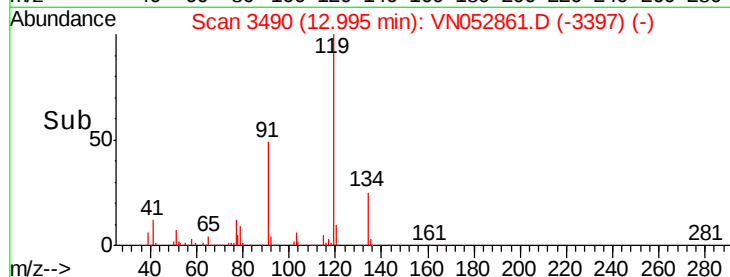
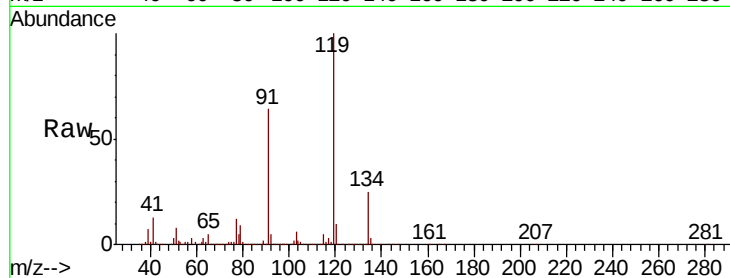
#83
tert-Butylbenzene
Concen: 20.200 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.1	31.9	95.5
134	26.3	12.8	38.4

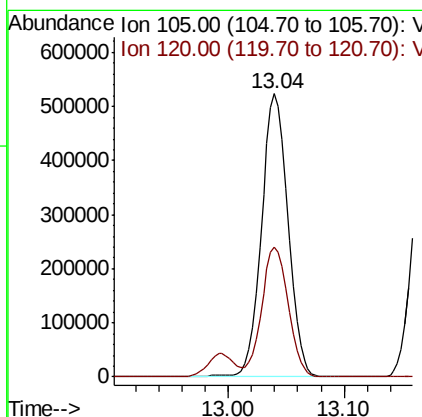
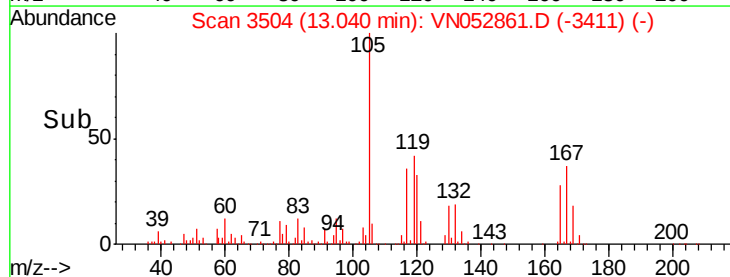
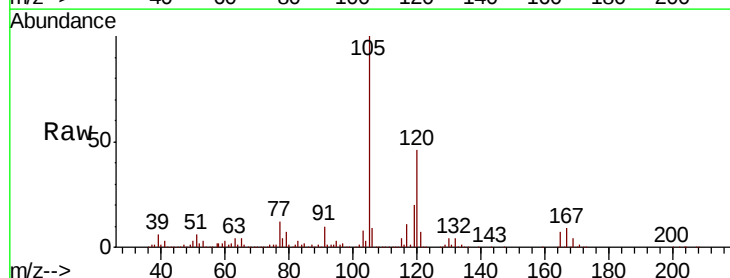
Manual Integrations
APPROVED

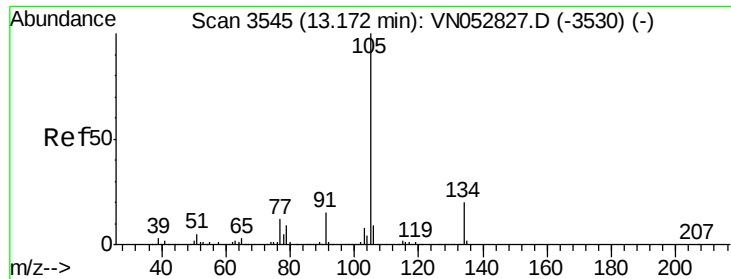
MMDadoda
12/14/2018 9:02:32 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.022 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.9	68.8





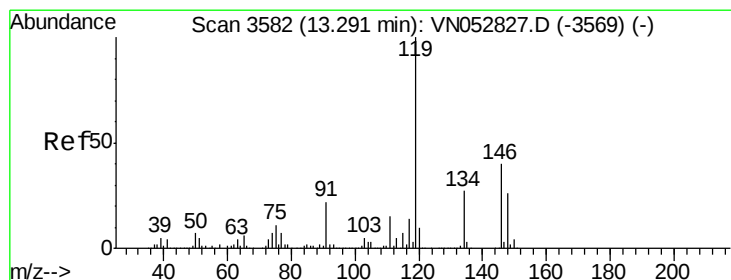
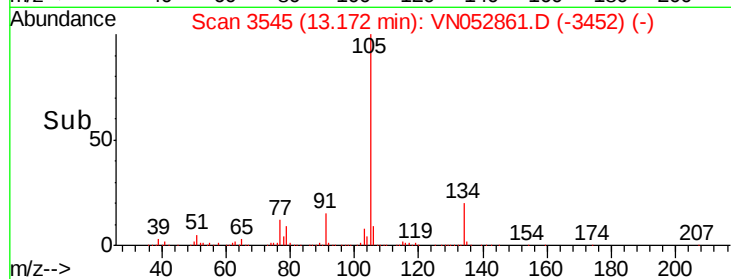
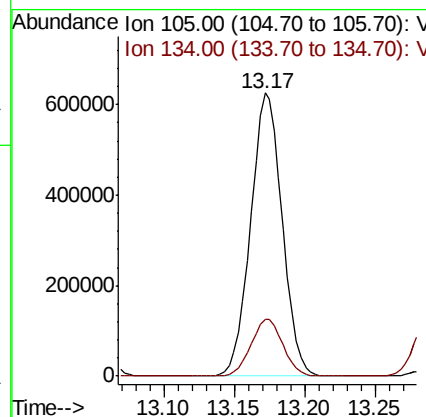
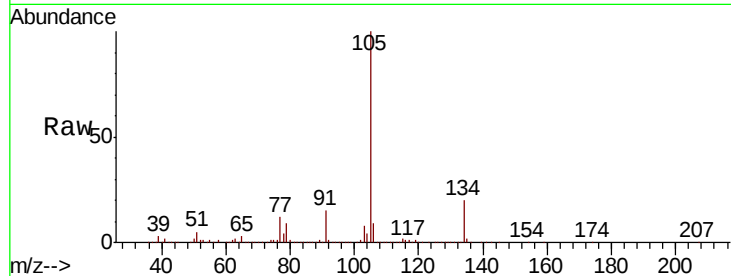
#85
 sec-Butylbenzene
 Concen: 19.967 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213MBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.5	10.1	30.3

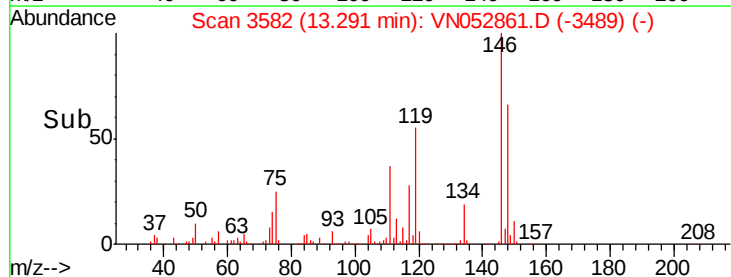
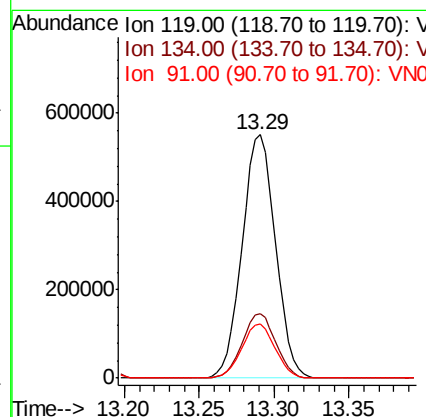
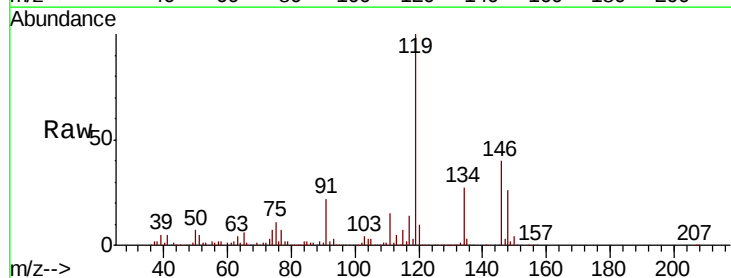
Manual Integrations
 APPROVED

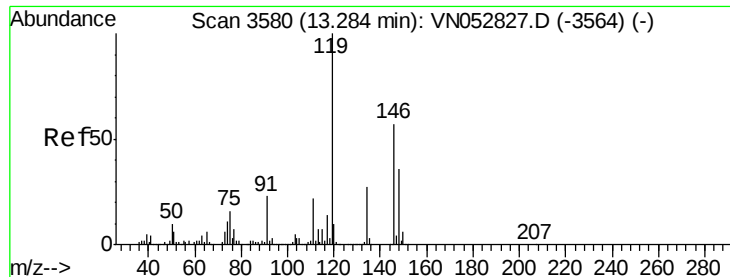
MMDadoda
 12/14/2018 9:02:32 AM



#86
 p-Isopropyltoluene
 Concen: 20.070 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.4	40.2
91	22.1	11.1	33.3





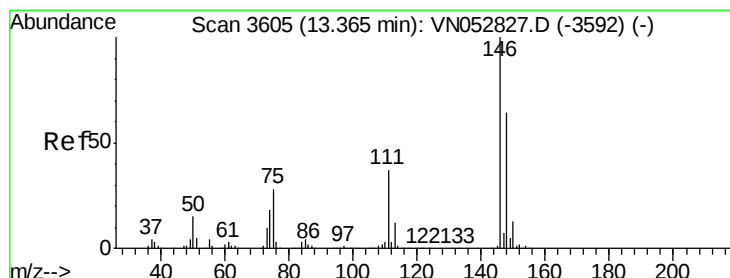
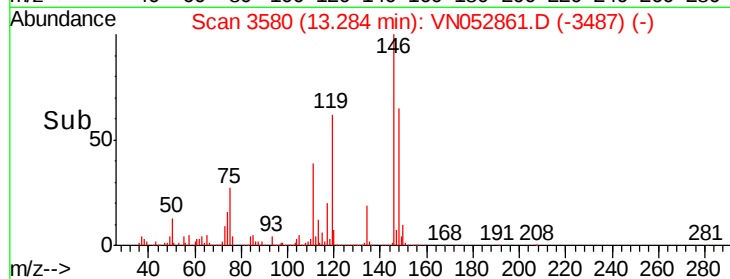
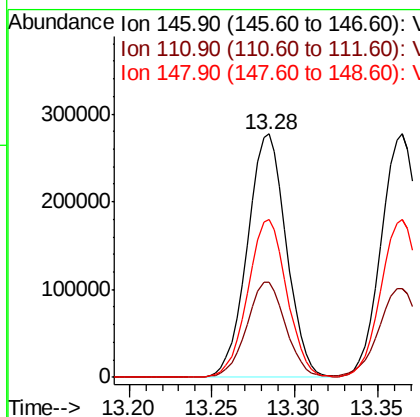
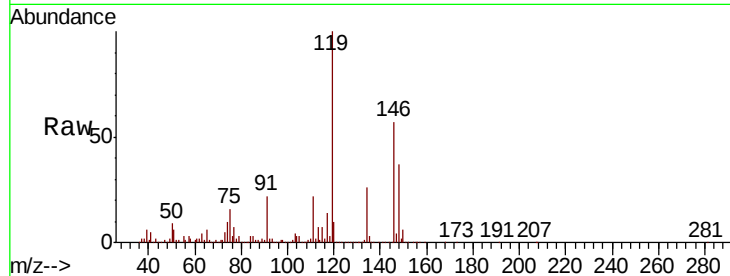
#87
 1,3-Dichlorobenzene
 Concen: 19.669 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.1	57.1
148	64.9	32.0	96.0

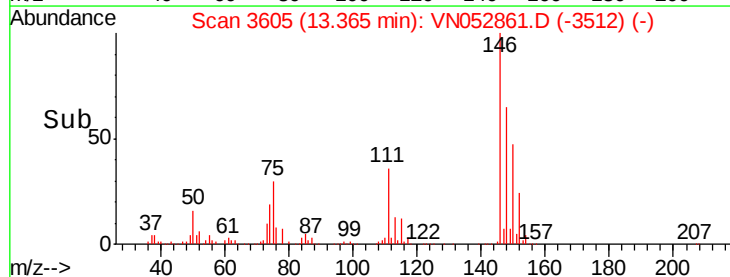
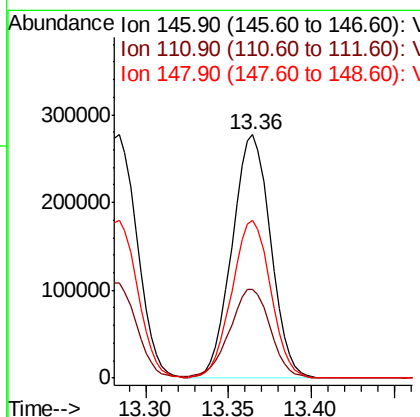
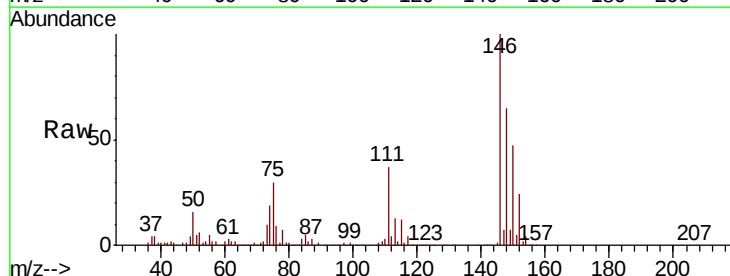
Manual Integrations
 APPROVED

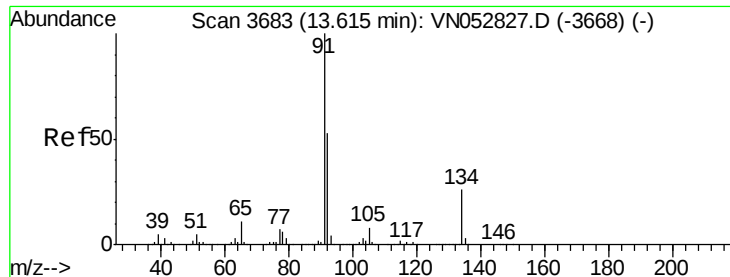
MMDadoda
 12/14/2018 9:02:32 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.693 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	18.6	55.8
148	65.6	32.1	96.5





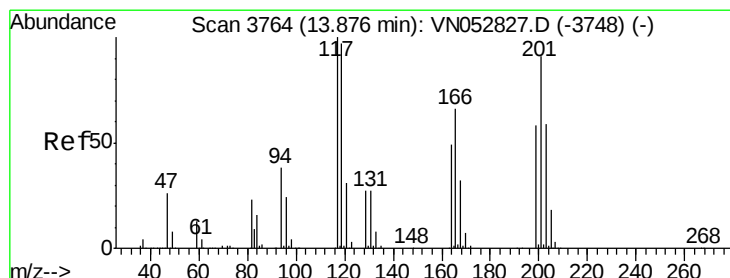
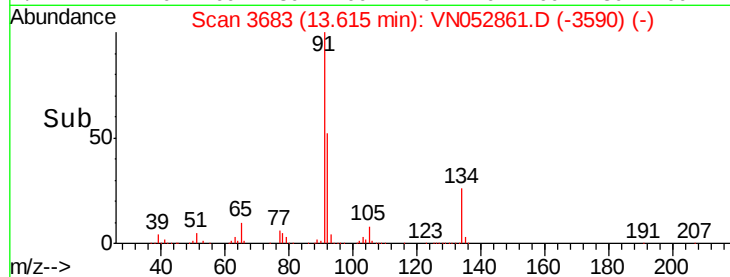
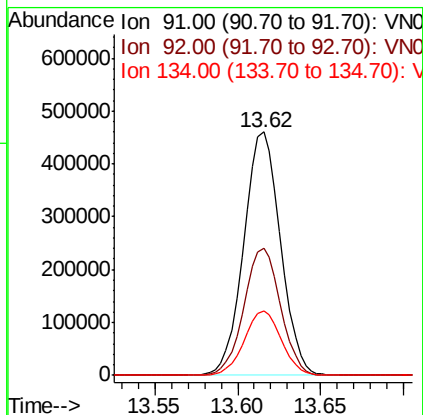
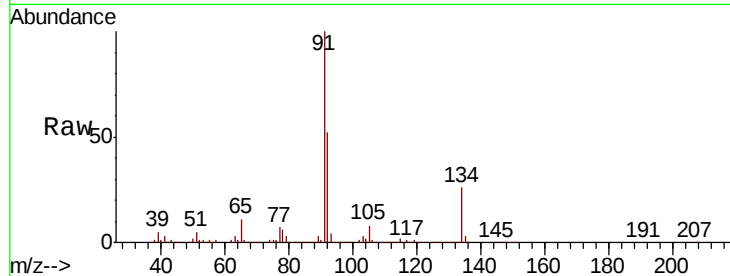
#89
n-Butylbenzene
Concen: 19.710 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.3	78.9
134	26.9	13.3	39.8

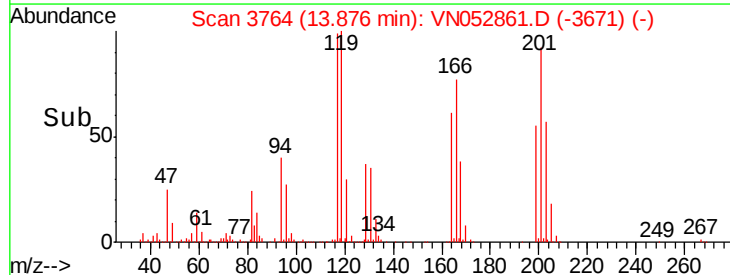
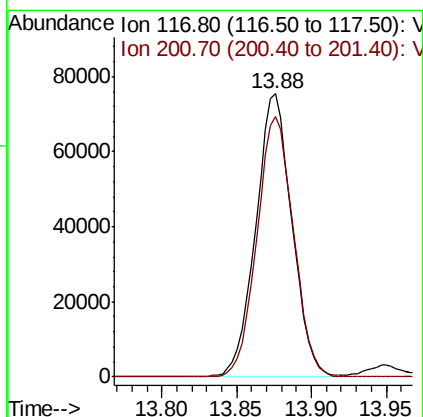
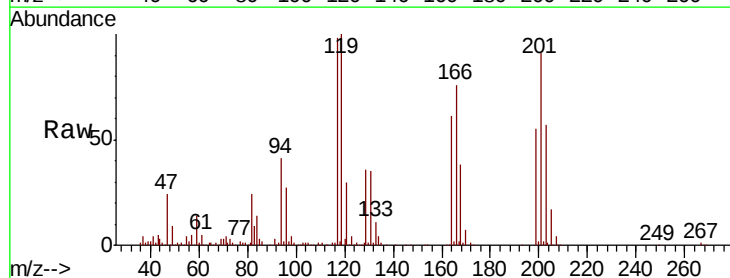
Manual Integrations
APPROVED

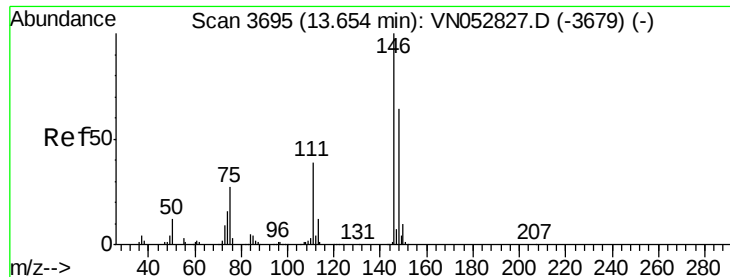
MMDadoda
12/14/2018 9:02:32 AM



#90
Hexachloroethane
Concen: 17.693 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.3	45.7	137.1





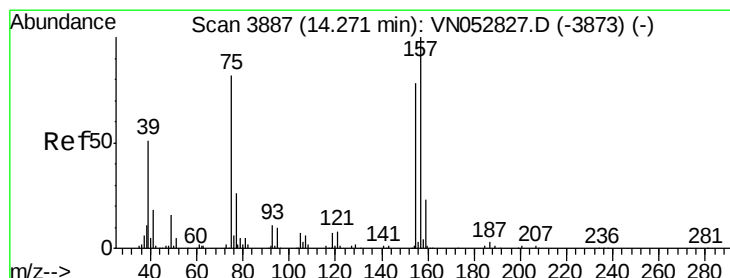
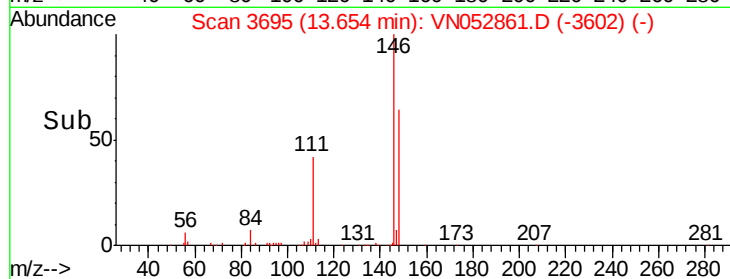
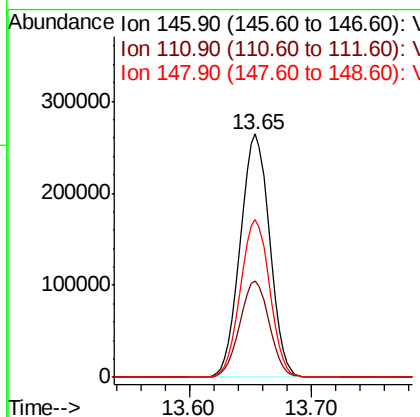
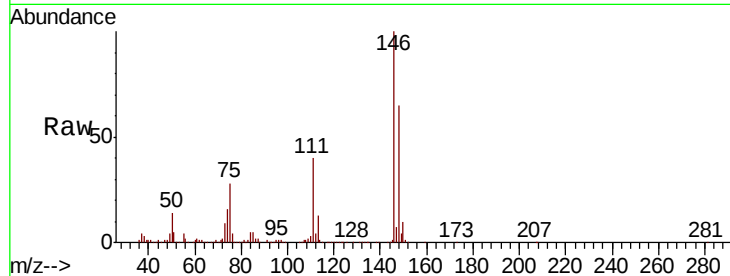
#91
 1,2-Dichlorobenzene
 Concen: 19.813 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.7	59.0
148	64.7	32.0	96.0

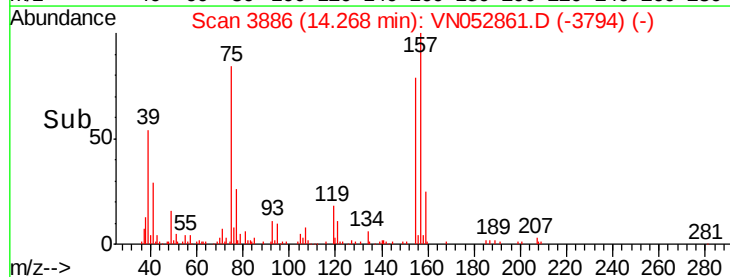
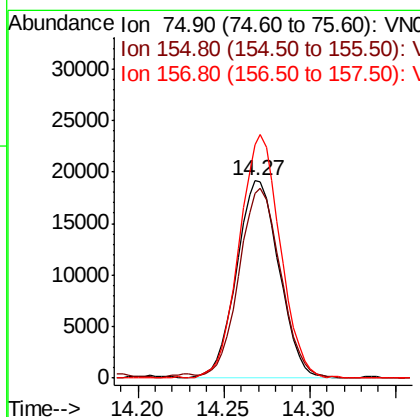
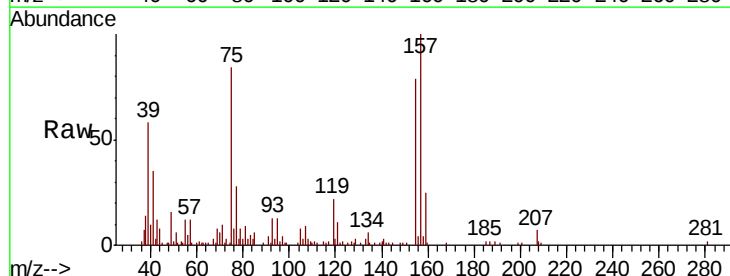
Manual Integrations
 APPROVED

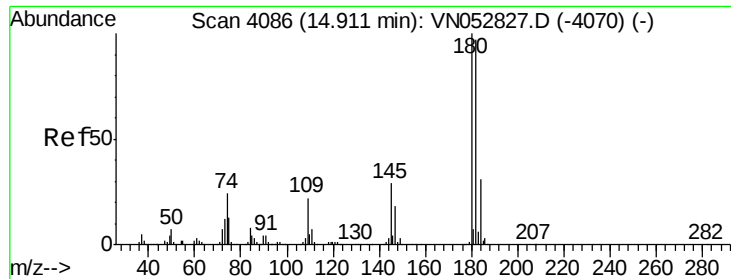
MMDadoda
 12/14/2018 9:02:32 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.124 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.2	48.2	144.6
157	118.6	61.2	183.5





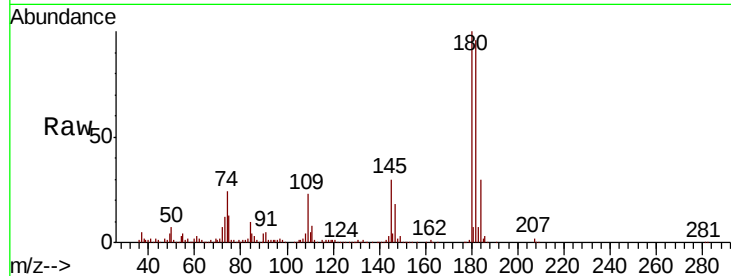
#93
 1,2,4-Trichlorobenzene
 Concen: 19.981 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1213MBS01

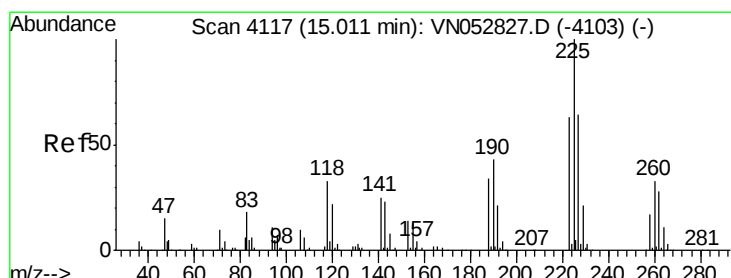
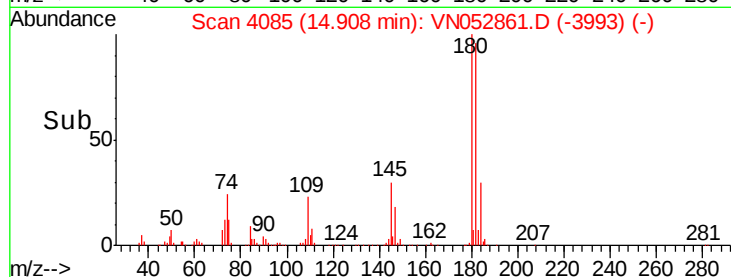
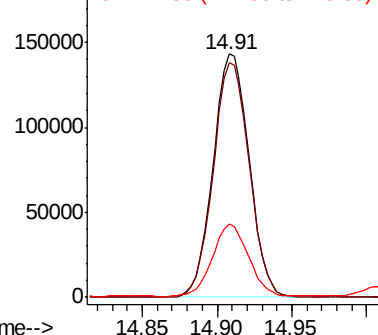
Tot Ion:	180	Resp:	240057
Ion Ratio	Lower	Upper	
180	100		
182	96.3	47.8	143.3
145	29.7	14.2	42.6

Manual Integrations
 APPROVED

MMDadoda
 12/14/2018 9:02:32 AM

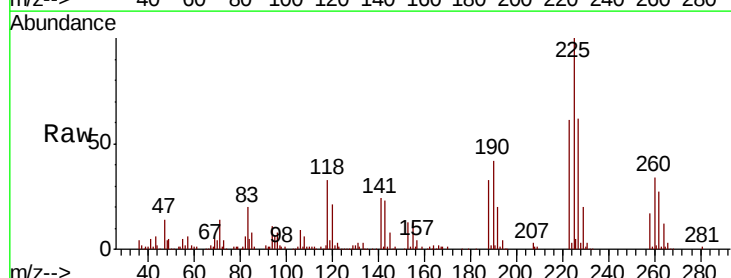


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

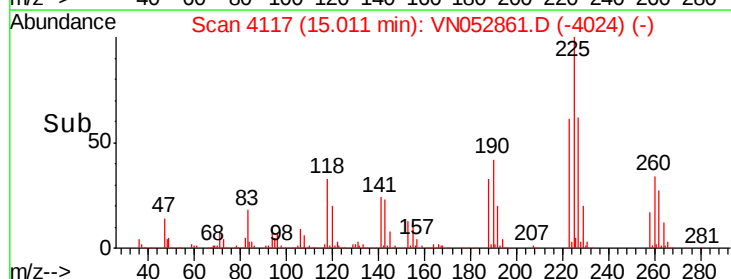
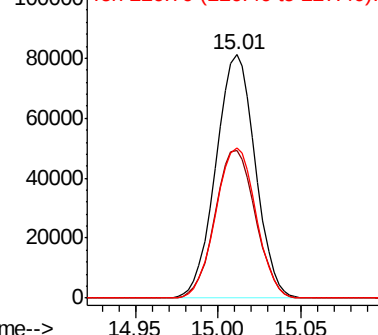


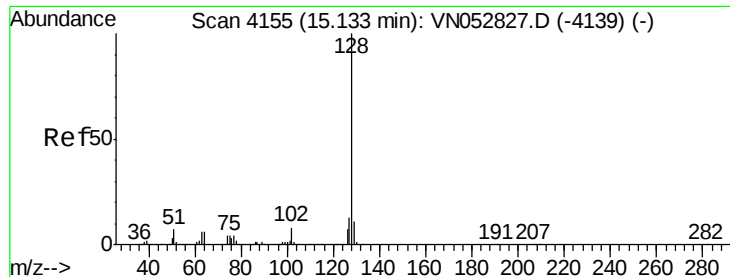
#94
 Hexachlorobutadiene
 Concen: 19.283 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052861.D
 Acq: 13 Dec 2018 13:47

Tgt Ion:	225	Resp:	134095
Ion Ratio	Lower	Upper	
225	100		
223	62.4	31.5	94.5
227	63.3	31.9	95.7



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





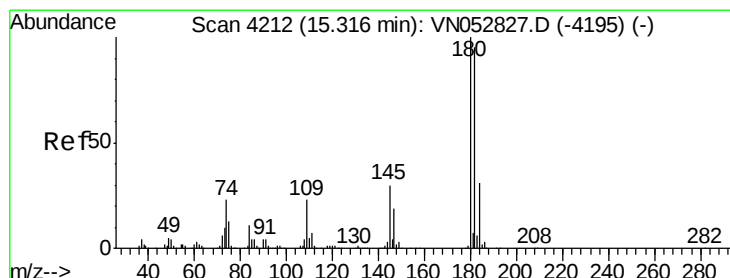
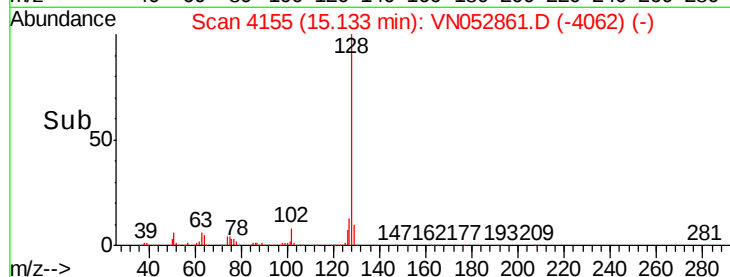
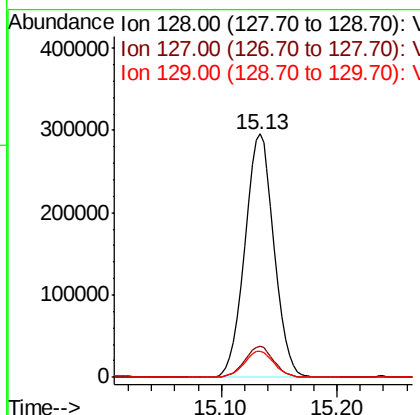
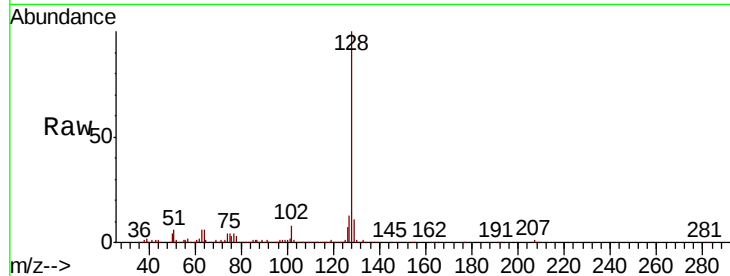
#95
Naphthalene
Concen: 20.715 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
VN1213MBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.7	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/14/2018 9:02:32 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.219 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN052861.D
Acq: 13 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.9	143.7
145	33.9	15.0	45.0

