

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
 Data File : VN053088.D
 Acq On : 21 Dec 2018 6:09
 Operator : MD\SY
 Sample : J6519-02MS
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-13-8.0-122018MS

Manual Integrations
 APPROVED

MMDadoda
 12/21/2018 11:31:52 AM

Quant Time: Dec 21 07:38:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	921137	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1445414	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1318303	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	632578	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	523196	55.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.94%	
35) Dibromofluoromethane	7.59	113	452528	68.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	137.08%	
50) Toluene-d8	10.09	98	1916908	54.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.16%	
62) 4-Bromofluorobenzene	12.40	95	681316	54.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	426310	45.729	ug/l	99
3) Chloromethane	2.06	50	550348	48.716	ug/l	100
4) Vinyl Chloride	2.19	62	554112	48.431	ug/l	100
5) Bromomethane	2.57	94	246672	31.118	ug/l	100
6) Chloroethane	2.71	64	333284	49.185	ug/l	100
7) Trichlorofluoromethane	3.02	101	688540	48.309	ug/l	100
8) Diethyl Ether	3.41	74	283662	52.755	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.77	101	428917	47.198	ug/l	98
10) Methyl Iodide	3.96	142	470889	36.898	ug/l	100
11) Tert butyl alcohol	4.78	59	162569	285.026	ug/l	97
12) 1,1-Dichloroethene	3.74	96	433030	49.322	ug/l	98
13) Acrolein	3.61	56	86071	166.426	ug/l	97
14) Allyl chloride	4.33	41	664466	48.860	ug/l	98
15) Acrylonitrile	4.99	53	839180	264.837	ug/l	100
16) Acetone	3.82	43	565314	308.441	ug/l	96
17) Carbon Disulfide	4.06	76	1248137	43.592	ug/l	99
18) Methyl Acetate	4.32	43	447036	53.665	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	1800981	76.654	ug/l	100
20) Methylene Chloride	4.55	84	512542	51.266	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	470299	49.857	ug/l	97
22) Diisopropyl ether	5.95	45	1574660	54.246	ug/l	98
23) Vinyl Acetate	5.90	43	4742232	284.102	ug/l	99
24) 1,1-Dichloroethane	5.85	63	891691	51.694	ug/l	99
25) 2-Butanone	6.83	43	883397	287.199	ug/l	97
26) 2,2-Dichloropropane	6.83	77	496466	37.704	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	556135	52.077	ug/l	97
28) Bromochloromethane	7.20	49	415610	55.604	ug/l	96
29) Tetrahydrofuran	7.21	42	619383	269.614	ug/l	98
30) Chloroform	7.37	83	876453	51.724	ug/l	100
31) Cyclohexane	7.66	56	804078	49.696	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	721980	50.016	ug/l	99
36) 1,1-Dichloropropene	7.80	75	663352	47.814	ug/l	99
37) Ethyl Acetate	6.93	43	417588	53.918	ug/l	99
38) Carbon Tetrachloride	7.78	117	611139	48.059	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
 Data File : VN053088.D
 Acq On : 21 Dec 2018 6:09
 Operator : MD\SY
 Sample : J6519-02MS
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-13-8.0-122018MS

Manual Integrations
 APPROVED

MMDadoda
 12/21/2018 11:31:52 AM

Quant Time: Dec 21 07:38:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	773420	45.891	ug/l	97
40) Benzene	8.04	78	2135964	51.760	ug/l	99
41) Methacrylonitrile	7.17	41	241017	53.860	ug/l	97
42) 1,2-Dichloroethane	8.13	62	618668	50.749	ug/l	99
43) Isopropyl Acetate	8.17	43	794052	53.044	ug/l	99
44) Trichloroethene	8.84	130	561641	47.055	ug/l	96
45) 1,2-Dichloropropane	9.12	63	552056	51.360	ug/l	100
46) Dibromomethane	9.21	93	314420	50.214	ug/l	98
47) Bromodichloromethane	9.40	83	674112	50.647	ug/l	99
48) Methyl methacrylate	9.20	41	390832	52.004	ug/l	98
49) 1,4-Dioxane	9.20	88	99611	1047.807	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	2109886	281.308	ug/l	99
52) Toluene	10.16	92	1300891	50.860	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	671334	47.966	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	778424	48.454	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	469230	52.584	ug/l	99
56) Ethyl methacrylate	10.43	69	654470	55.412	ug/l	97
57) 1,3-Dichloropropane	10.71	76	791704	51.739	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1668936	257.386	ug/l	98
59) 2-Hexanone	10.75	43	1441772	284.118	ug/l	99
60) Dibromochloromethane	10.90	129	516033	50.520	ug/l	100
61) 1,2-Dibromoethane	11.01	107	460553	50.819	ug/l	100
64) Tetrachloroethene	10.63	164	574249	40.213	ug/l	98
65) Chlorobenzene	11.43	112	1449653	49.606	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	504635	49.658	ug/l	99
67) Ethyl Benzene	11.51	91	2494885	49.644	ug/l	100
68) m/p-Xylenes	11.62	106	1888267	98.835	ug/l	100
69) o-Xylene	11.95	106	935537	51.030	ug/l	100
70) Styrene	11.96	104	1539949	51.514	ug/l	99
71) Bromoform	12.13	173	358476	48.830	ug/l #	99
73) Isopropylbenzene	12.25	105	2705453	54.662	ug/l	100
74) N-amyl acetate	12.07	43	817003	59.456	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	546339	56.266	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	476129m	44.712	ug/l	
77) Bromobenzene	12.53	156	688054	53.480	ug/l	90
78) n-propylbenzene	12.59	91	3121794	55.382	ug/l	99
79) 2-Chlorotoluene	12.68	91	1632829	46.732	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1978481	49.043	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	142385	43.096	ug/l	98
82) 4-Chlorotoluene	12.77	91	1688256	49.360	ug/l	100
83) tert-Butylbenzene	12.99	119	1743994	48.881	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2014702	49.679	ug/l	99
85) sec-Butylbenzene	13.17	105	2400061	49.733	ug/l	99
86) p-Isopropyltoluene	13.29	119	1983033	47.555	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1099397	48.282	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1095875	47.524	ug/l	100
89) n-Butylbenzene	13.62	91	1652713	46.069	ug/l	99
90) Hexachloroethane	13.88	117	343251	53.640	ug/l	92
91) 1,2-Dichlorobenzene	13.65	146	1058238	49.380	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	84716	50.459	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
Data File : VN053088.D
Acq On : 21 Dec 2018 6:09
Operator : MD\SY
Sample : J6519-02MS
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 49 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM

Quant Time: Dec 21 07:38:36 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	563843	49.665	ug/l	96
94) Hexachlorobutadiene	15.01	225	300579	51.198	ug/l	99
95) Naphthalene	15.13	128	1510479	60.485	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	511461	50.024	ug/l	98

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

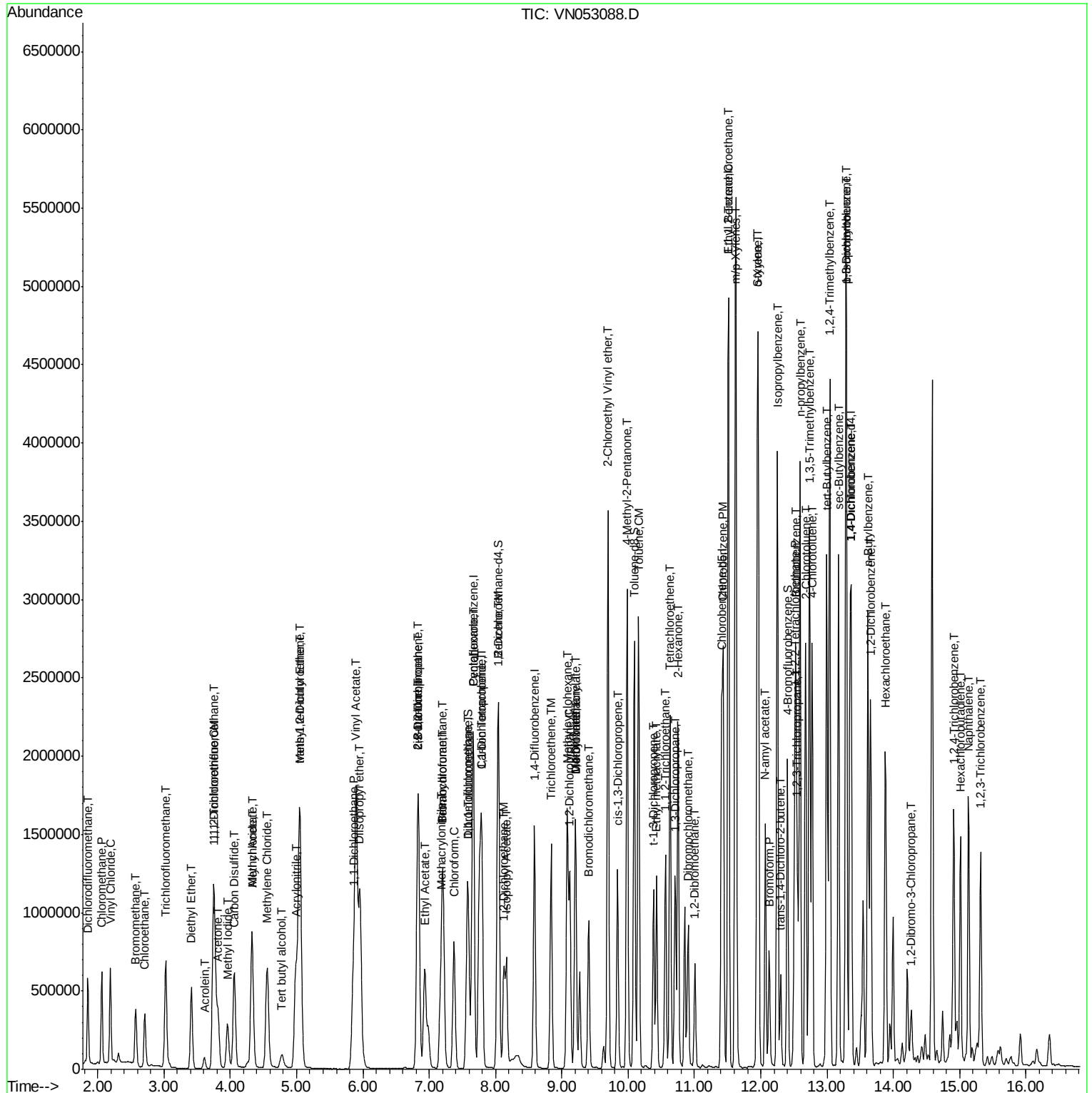
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
 Data File : VN053088.D
 Acq On : 21 Dec 2018 6:09
 Operator : MD\SY
 Sample : J6519-02MS
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 28

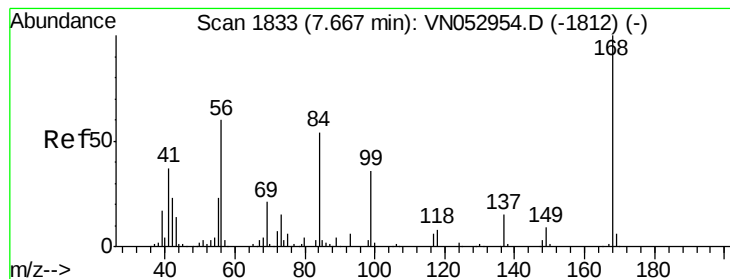
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-13-8.0-122018MS

Manual Integrations
 APPROVED

MMDadoda
 12/21/2018 11:31:52 AM

Quant Time: Dec 21 07:38:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 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: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion:168 Resp: 921137

Ion Ratio Lower Upper

168 100

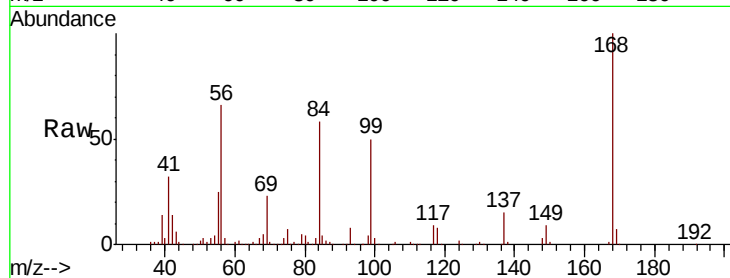
99 50.1 40.2 60.2

Manual Integrations

APPROVED

MMDadoda

12/21/2018 11:31:52 AM



Abundance Ion 167.90 (167.60 to 168.60): VN052954.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052954.D (-1812) (-)

7.67

400000

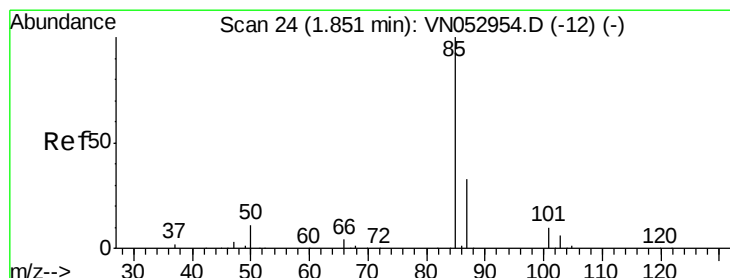
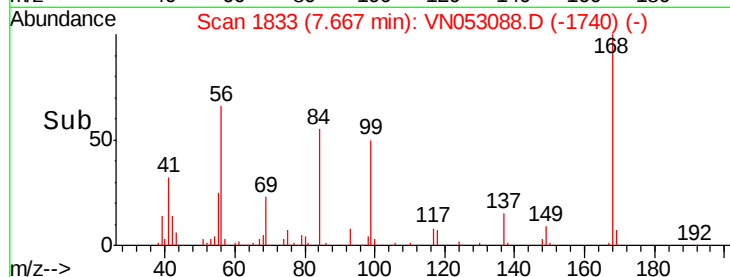
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 45.729 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN053088.D

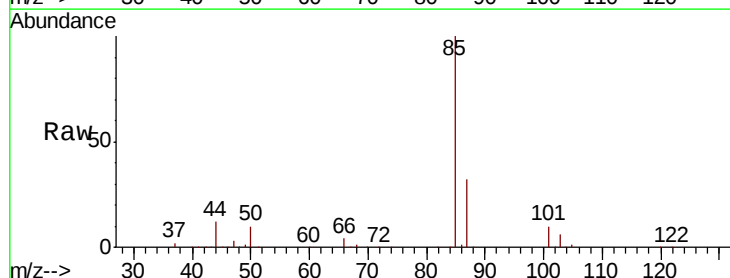
Acq: 21 Dec 2018 6:09

Tgt Ion: 85 Resp: 426310

Ion Ratio Lower Upper

85 100

87 32.1 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN052954.D (-12) (-)

Ion 86.90 (86.60 to 87.60): VN052954.D (-12) (-)

1.85

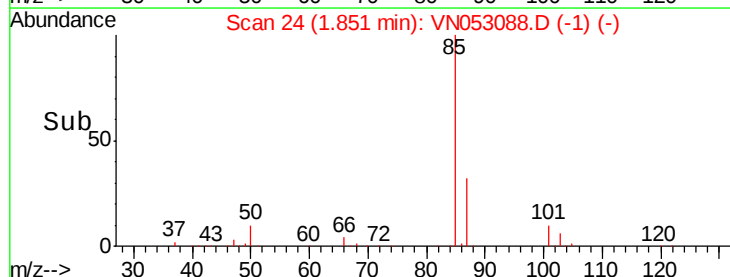
300000

200000

100000

0

Time-->





#3

Chloromethane

Concen: 48.716 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion: 50 Resp: 550348

Ion Ratio Lower Upper

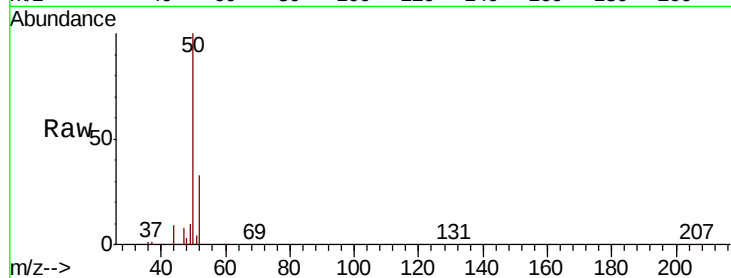
50 100

52 32.6 26.2 39.4

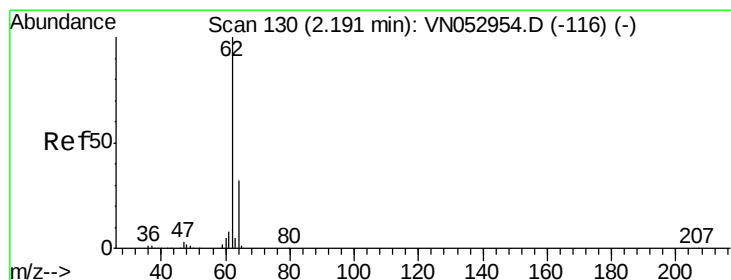
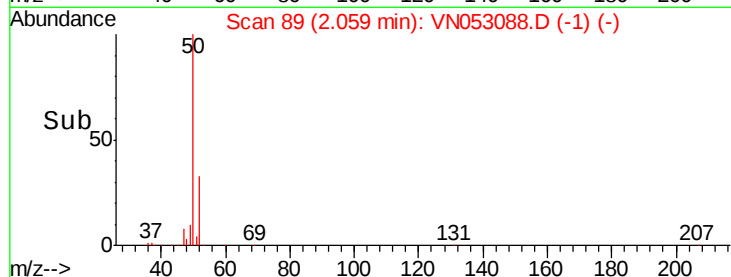
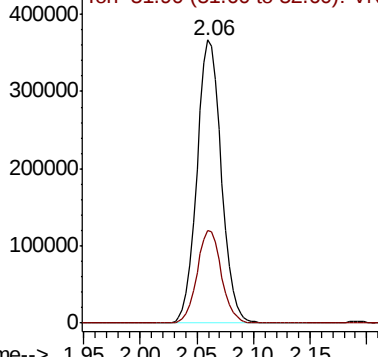
Manual Integrations
APPROVED

MMDadoda

12/21/2018 11:31:52 AM



Abundance Ion 49.90 (49.60 to 50.60): VNO
Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 48.431 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN053088.D

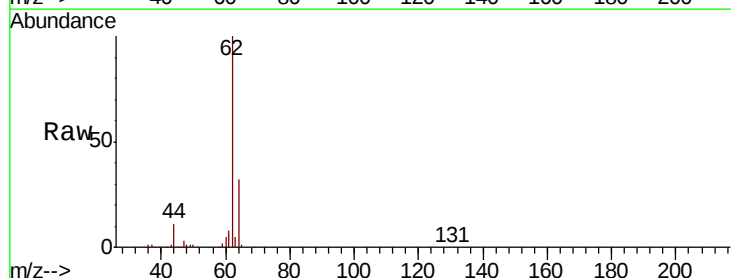
Acq: 21 Dec 2018 6:09

Tgt Ion: 62 Resp: 554112

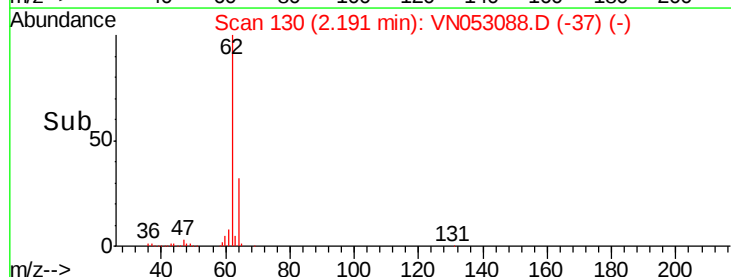
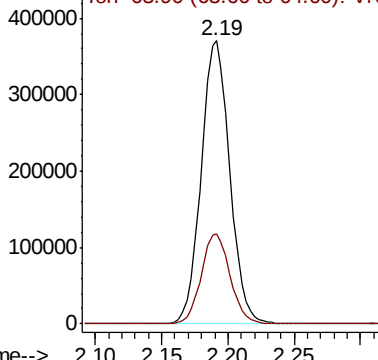
Ion Ratio Lower Upper

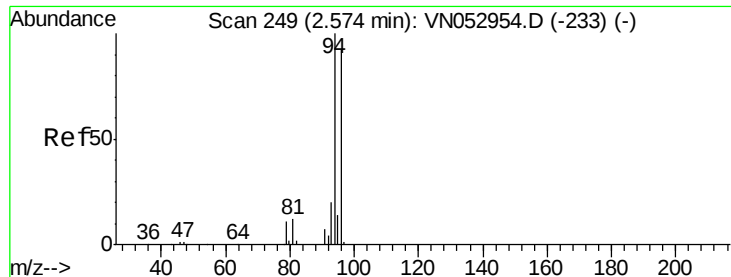
62 100

64 32.0 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 31.118 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion: 94 Resp: 246672

Ion Ratio Lower Upper

94 100

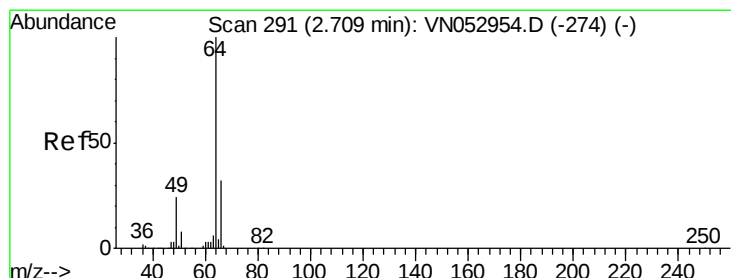
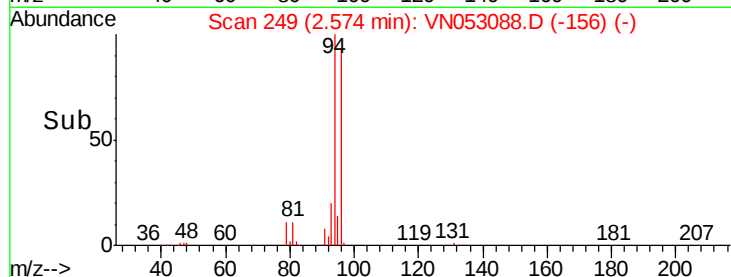
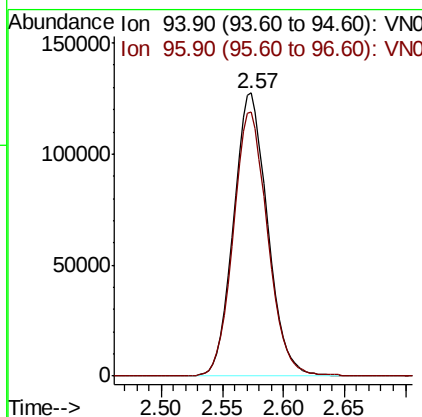
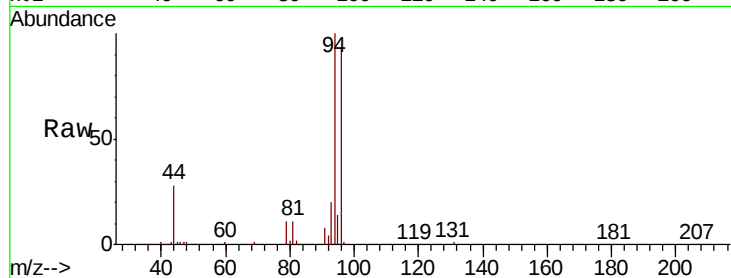
96 93.4 75.0 112.4

Manual Integrations

APPROVED

MMDadoda

12/21/2018 11:31:52 AM



#6

Chloroethane

Concen: 49.185 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN053088.D

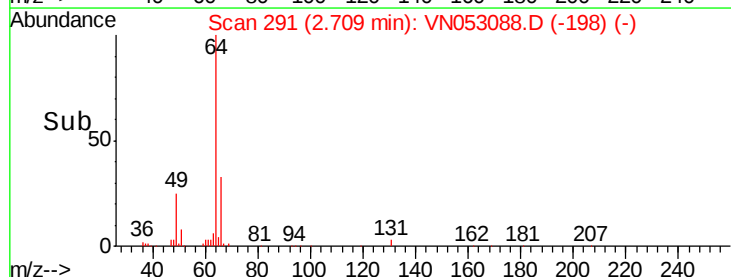
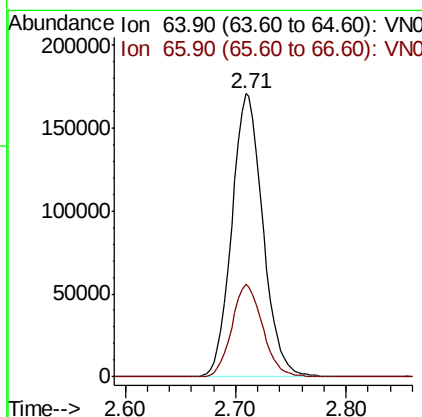
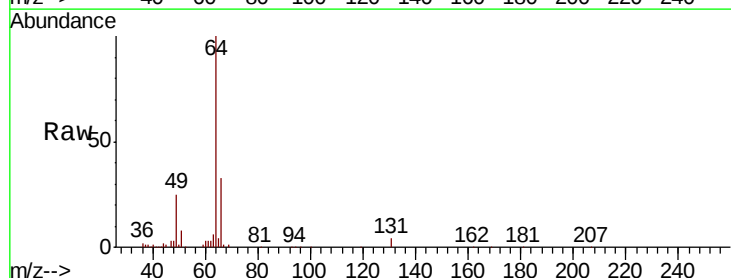
Acq: 21 Dec 2018 6:09

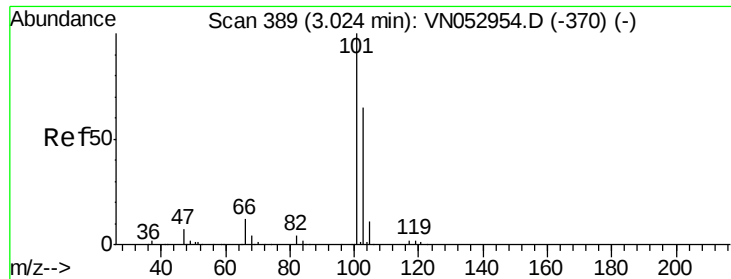
Tgt Ion: 64 Resp: 333284

Ion Ratio Lower Upper

64 100

66 32.6 26.2 39.2





#7

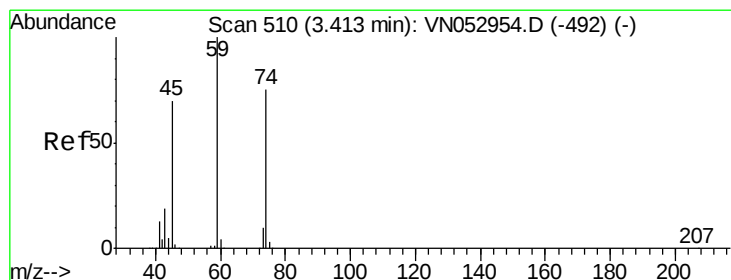
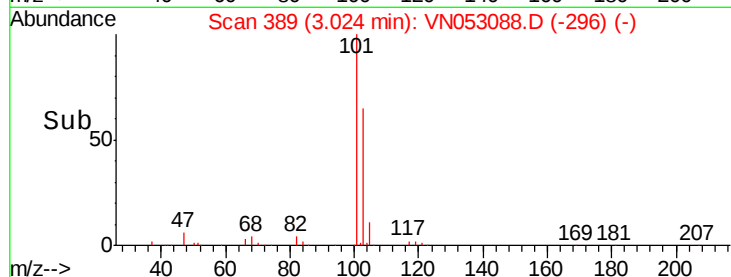
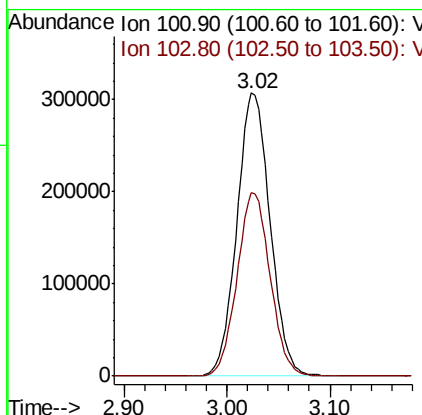
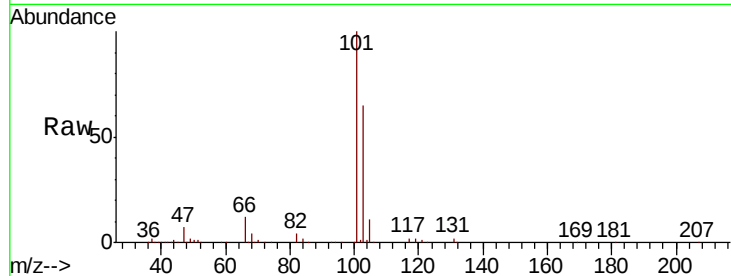
Trichlorofluoromethane
Concen: 48.309 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.8	77.6

Manual Integrations
APPROVED

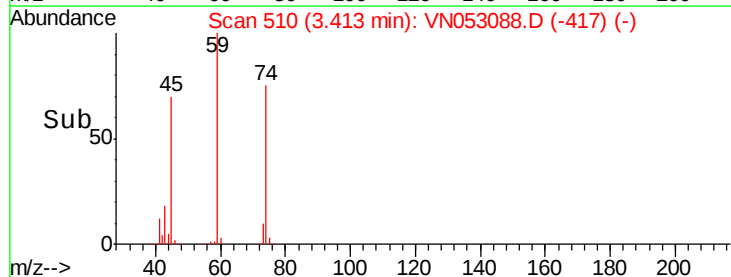
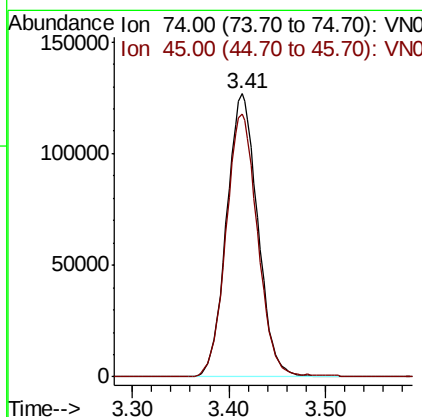
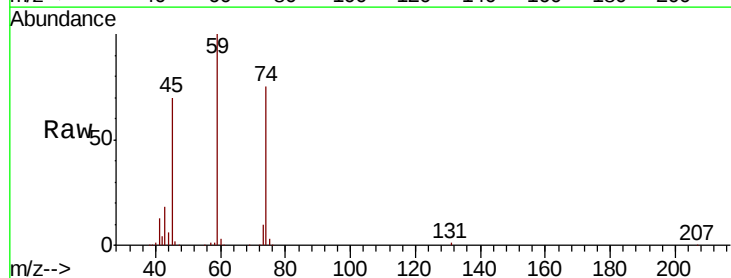
MMDadoda
12/21/2018 11:31:52 AM

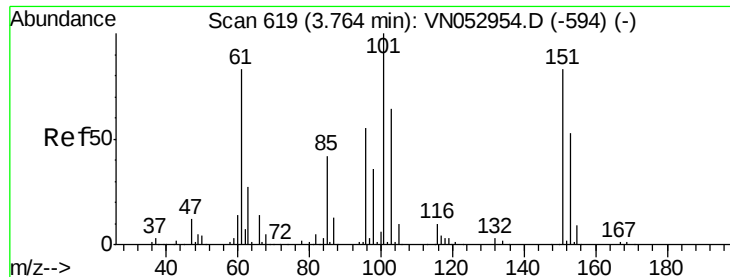


#8

Diethyl Ether
Concen: 52.755 ug/l
RT: 3.41 min Scan# 510
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.3	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.198 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

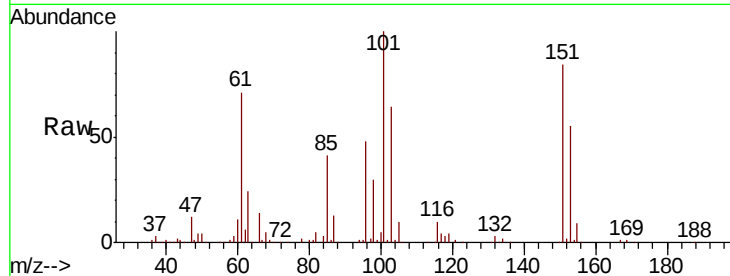
ClientSampleId :

T11-MW-13-8.0-122018MS

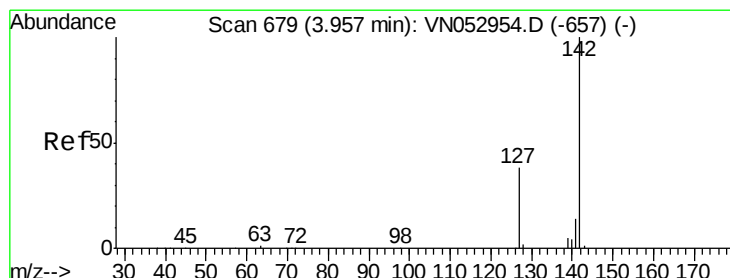
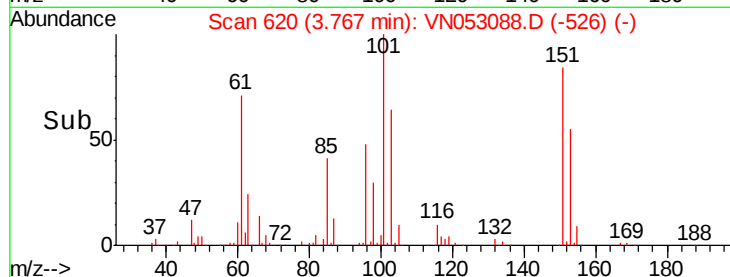
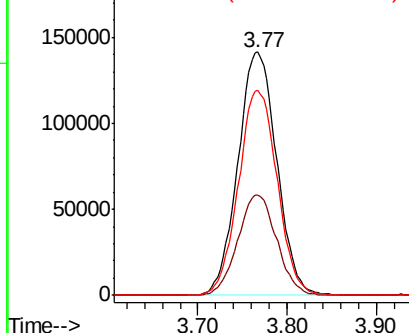
Tot Ion:	101	Resp:	428917
Ion Ratio	Lower	Upper	
101	100		
85	41.3	33.6	50.4
151	84.1	65.5	98.3

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 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: 36.898 ug/l

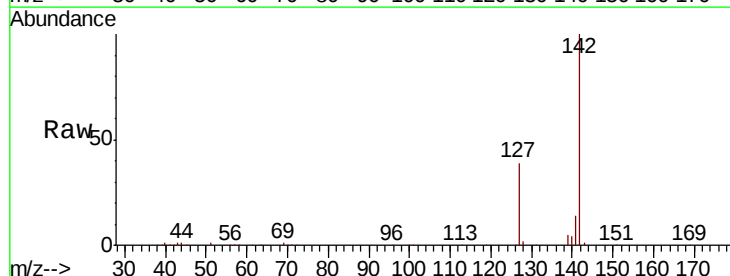
RT: 3.96 min Scan# 680

Delta R.T. 0.00 min

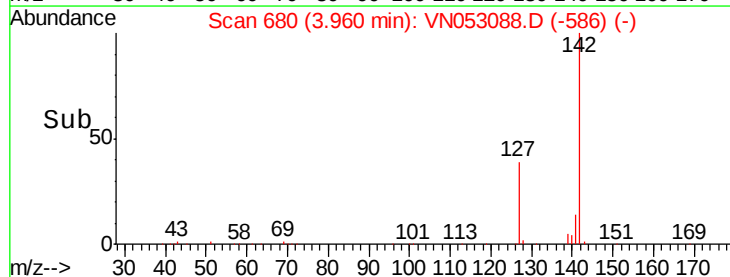
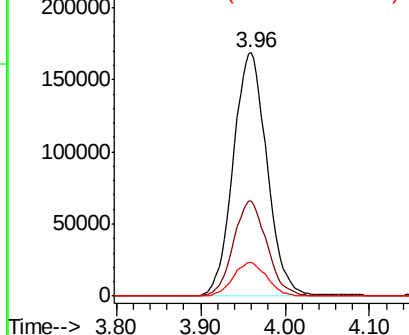
Lab File: VN053088.D

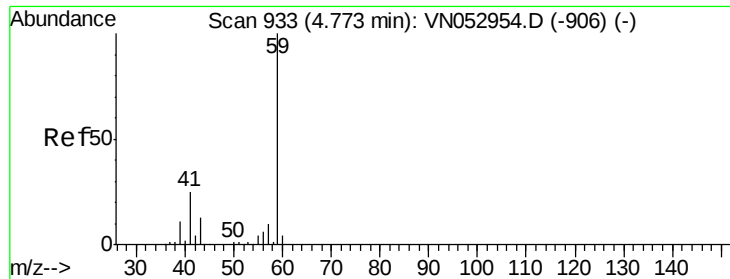
Acq: 21 Dec 2018 6:09

Tgt Ion:	142	Resp:	470889
Ion Ratio	Lower	Upper	
142	100		
127	38.8	31.0	46.6
141	13.8	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





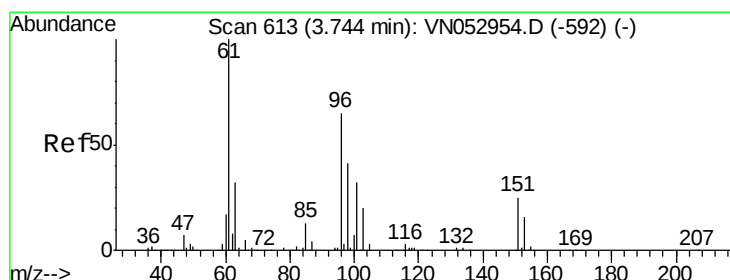
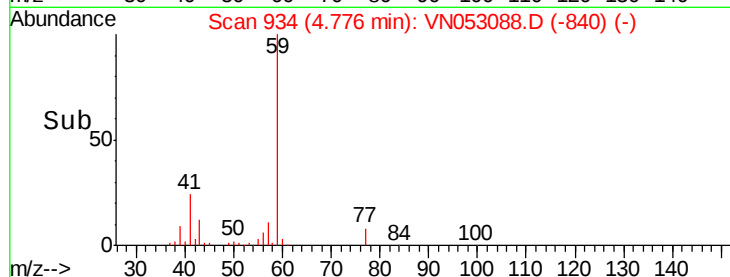
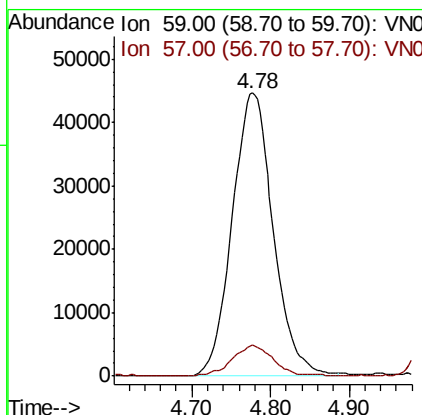
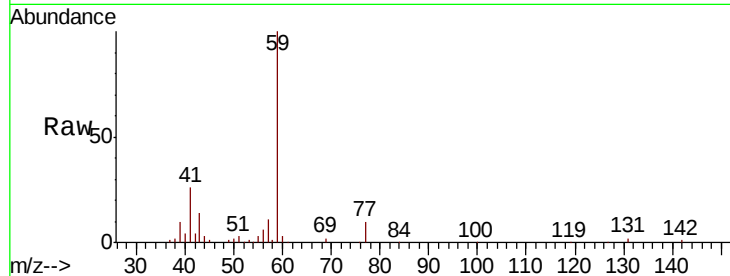
#11
Tert butyl alcohol
Concen: 285.026 ug/l
RT: 4.78 min Scan# 934
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion: 59 Resp: 162569
Ion Ratio Lower Upper
59 100
57 10.7 7.7 11.5

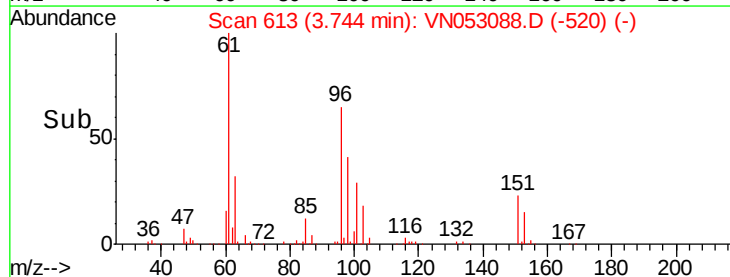
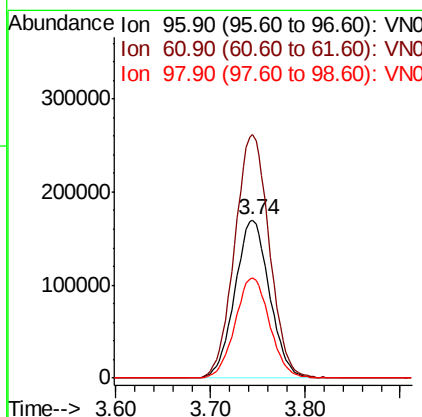
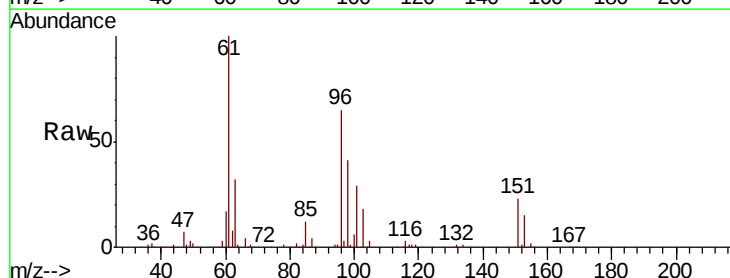
Manual Integrations
APPROVED

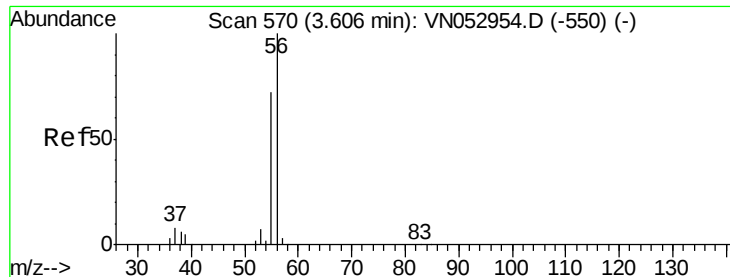
MMDadoda
12/21/2018 11:31:52 AM



#12
1,1-Dichloroethene
Concen: 49.322 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion: 96 Resp: 433030
Ion Ratio Lower Upper
96 100
61 153.8 125.6 188.4
98 63.1 50.6 75.8





#13

Acrolein

Concen: 166.426 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion: 56 Resp: 86071

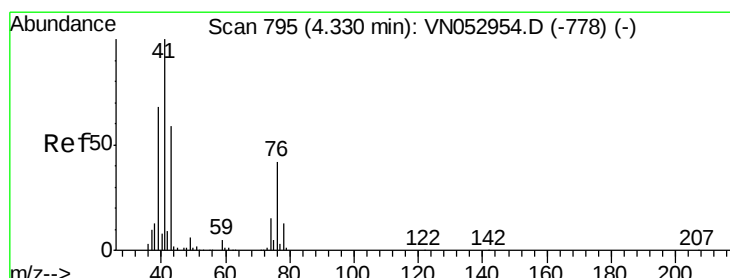
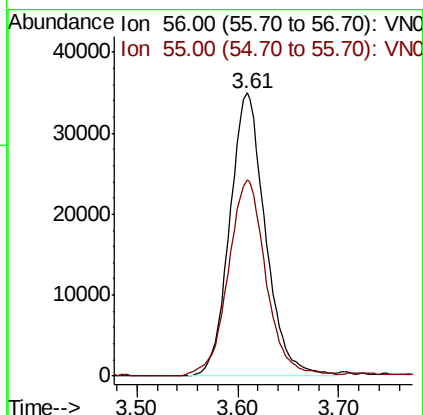
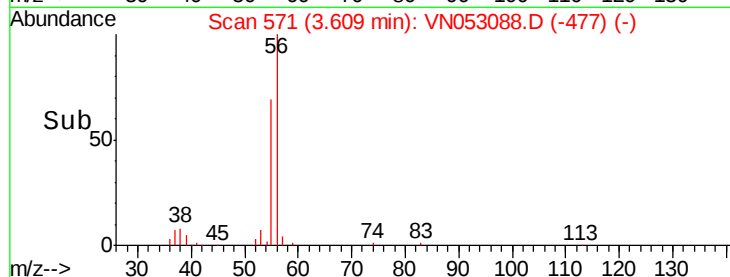
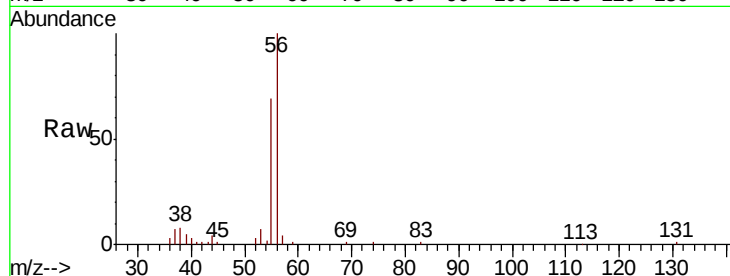
Ion Ratio Lower Upper

56 100

55 73.4 56.6 85.0

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#14

Allyl chloride

Concen: 48.860 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

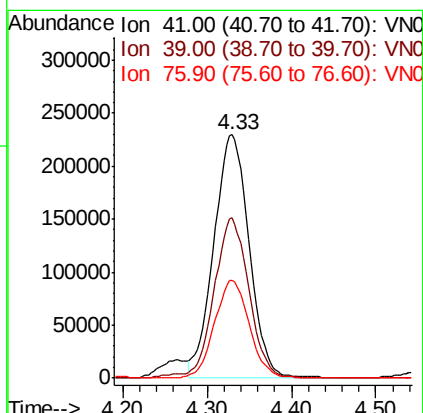
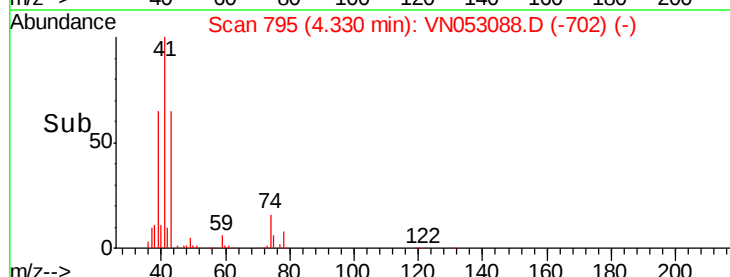
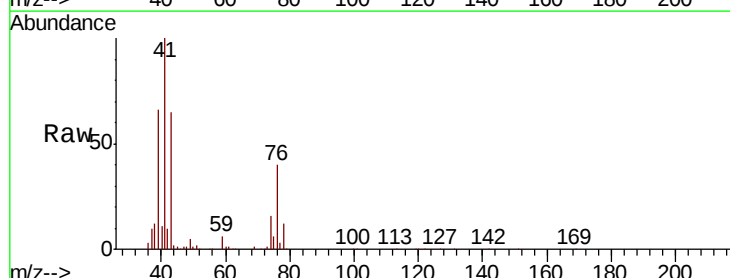
Tgt Ion: 41 Resp: 664466

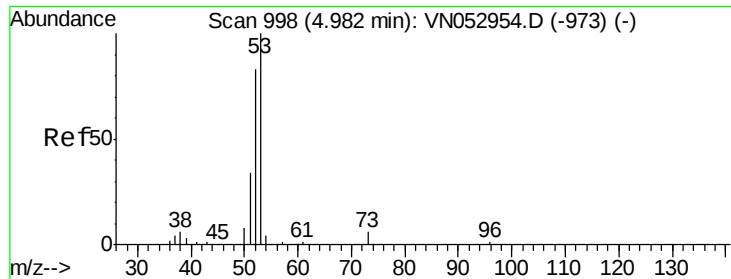
Ion Ratio Lower Upper

41 100

39 65.9 54.1 81.1

76 39.1 30.3 45.5





#15

Acrylonitrile

Concen: 264.837 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

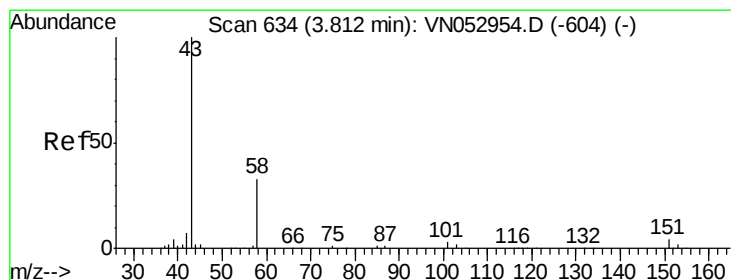
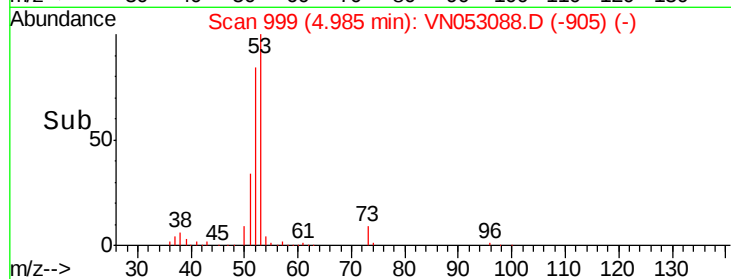
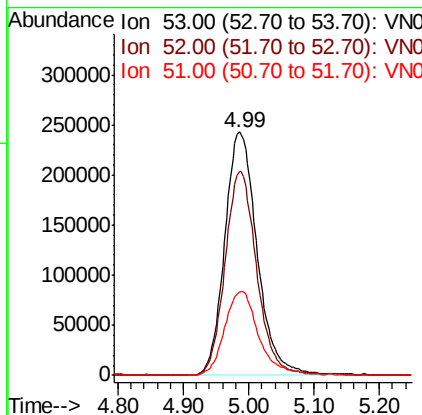
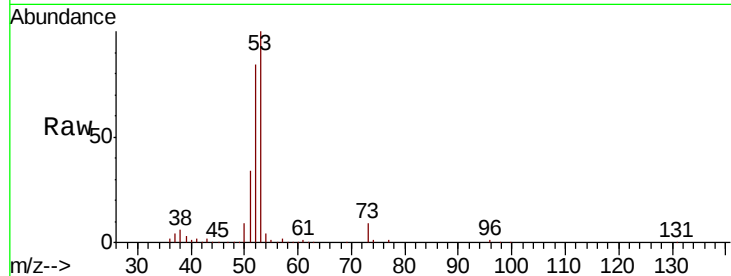
ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion:	53	Resp:	839180
Ion	Ratio	Lower	Upper
53	100		
52	81.4	65.1	97.7
51	35.4	28.1	42.1

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#16

Acetone

Concen: 308.441 ug/l

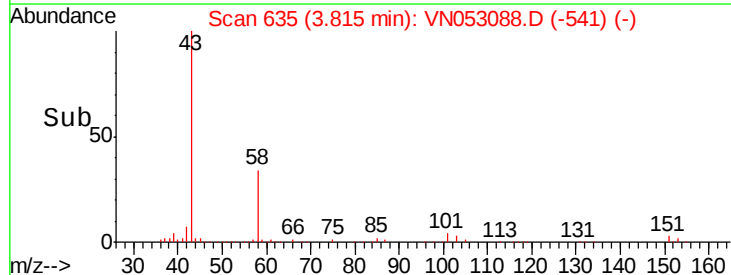
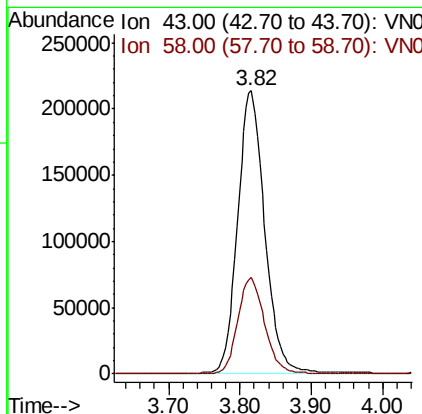
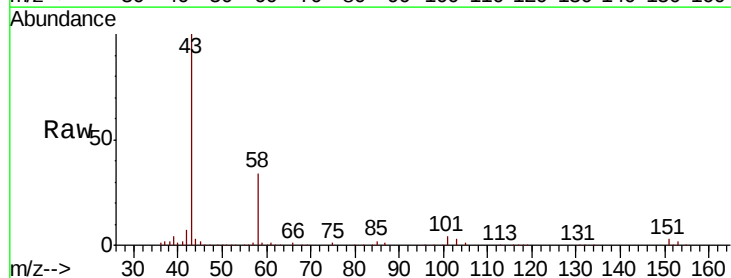
RT: 3.82 min Scan# 635

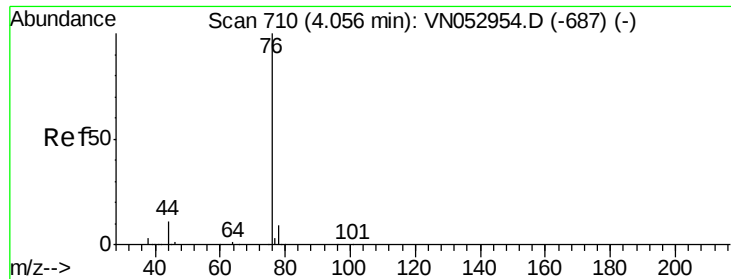
Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Tgt Ion:	43	Resp:	565314
Ion	Ratio	Lower	Upper
43	100		
58	33.9	25.4	38.0





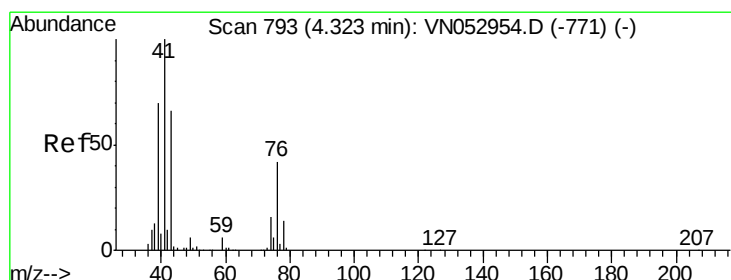
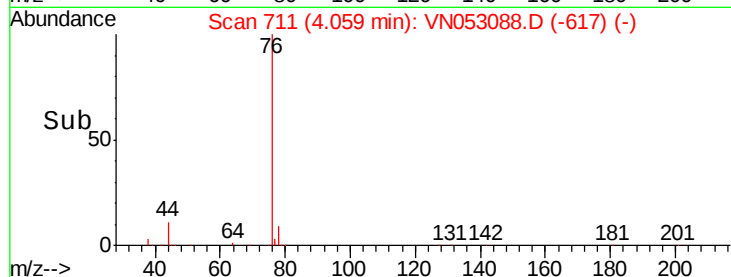
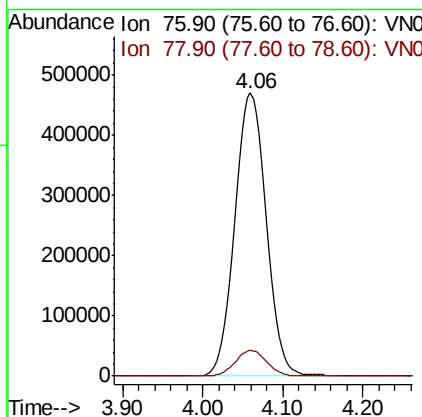
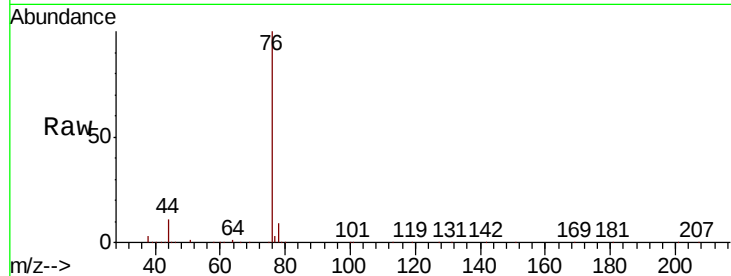
#17
Carbon Disulfide
Concen: 43.592 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion: 76 Resp: 1248137
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7

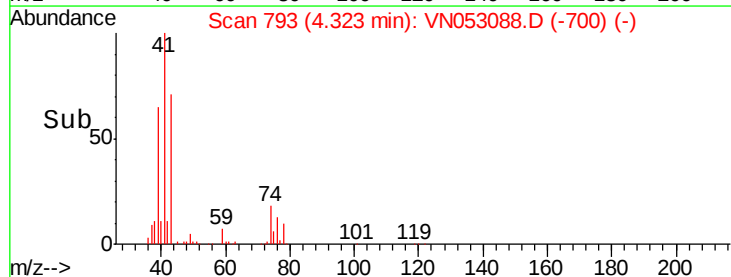
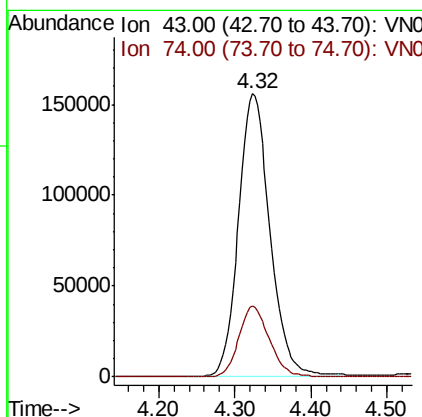
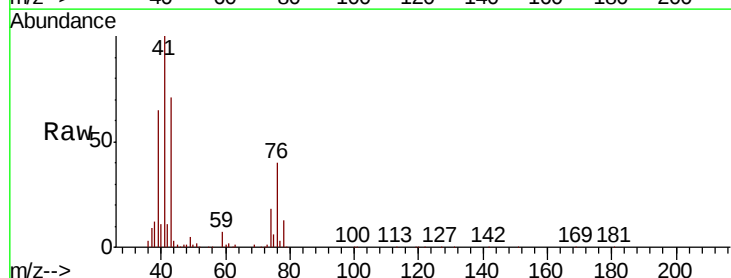
Manual Integrations
APPROVED

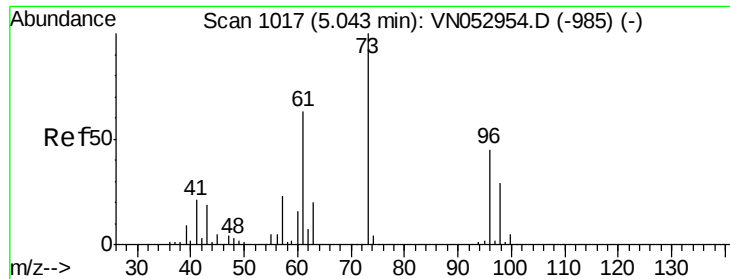
MMDadoda
12/21/2018 11:31:52 AM



#18
Methyl Acetate
Concen: 53.665 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion: 43 Resp: 447036
Ion Ratio Lower Upper
43 100
74 24.4 19.2 28.8





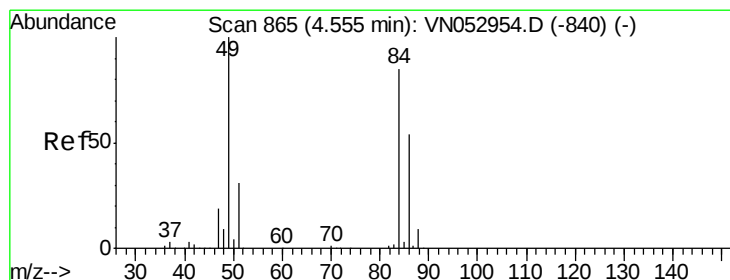
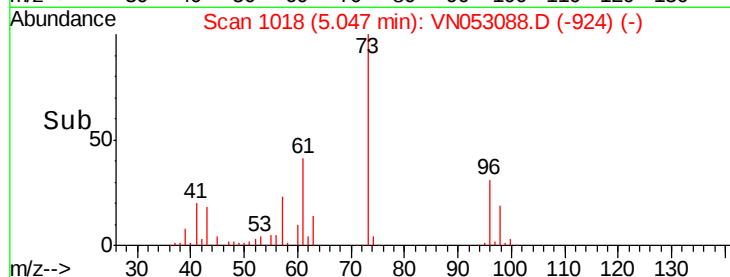
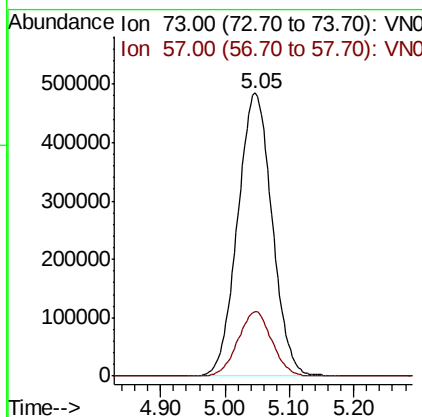
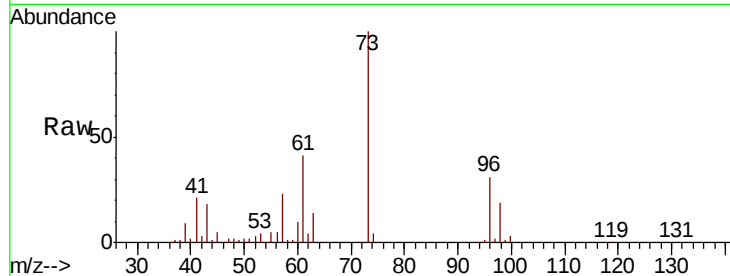
#19
Methvl tert-butvl Ether
Concen: 76.654 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion: 73 Resp: 1800981
Ion Ratio Lower Upper
73 100
57 22.8 18.4 27.6

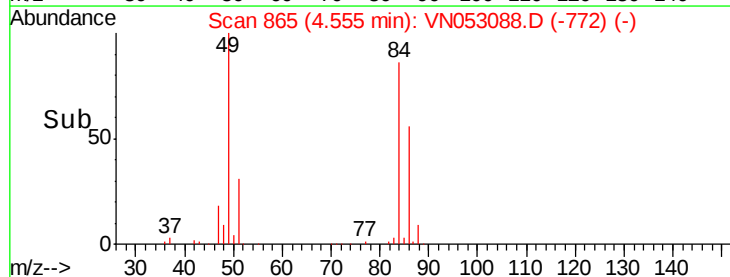
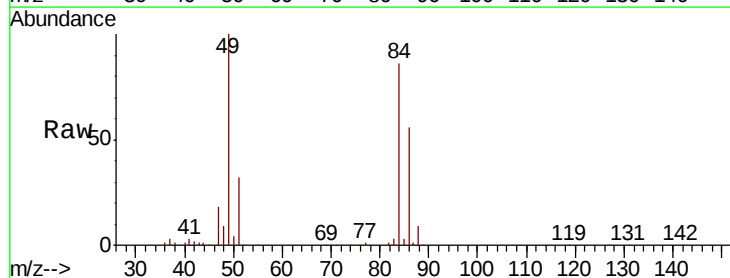
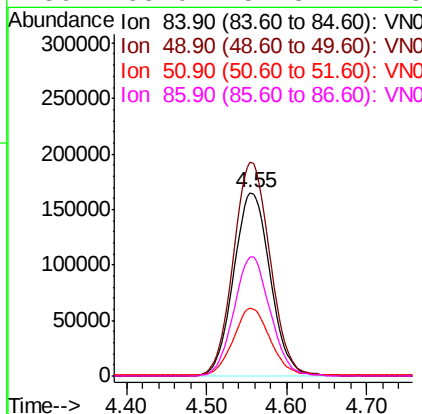
Manual Integrations
APPROVED

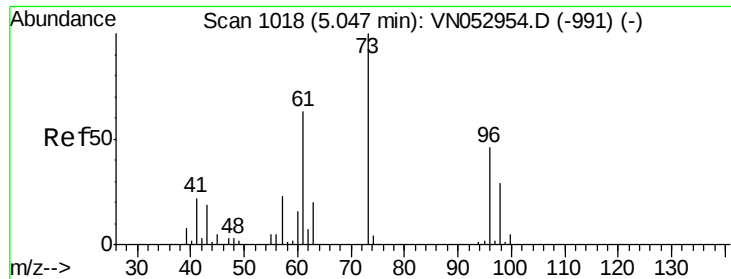
MMDadoda
12/21/2018 11:31:52 AM



#20
Methylene Chloride
Concen: 51.266 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion: 84 Resp: 512542
Ion Ratio Lower Upper
84 100
49 116.6 96.8 145.2
51 36.1 29.9 44.9
86 65.0 51.8 77.6





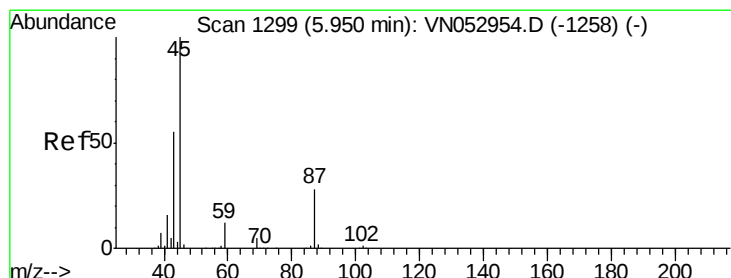
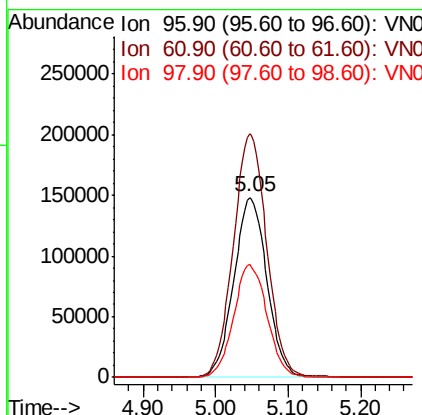
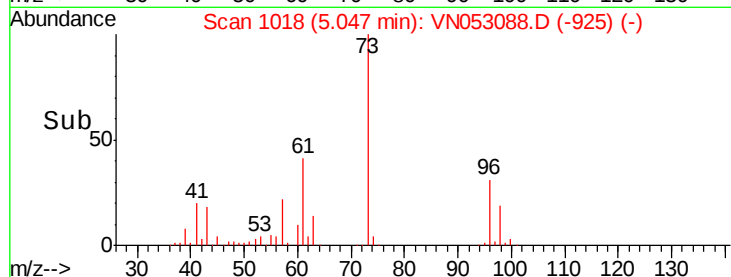
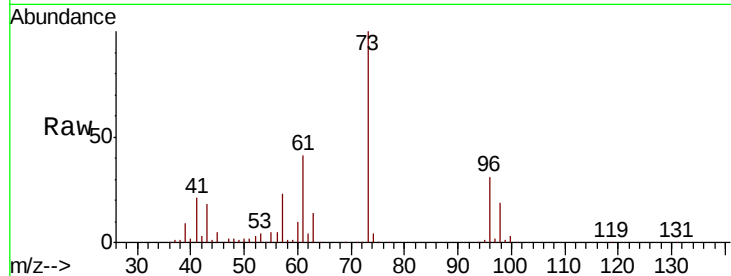
#21
trans-1,2-Dichloroethene
Concen: 49.857 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.2	110.8	166.2
98	62.5	51.4	77.2

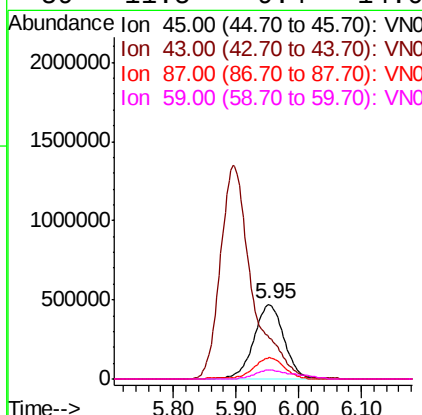
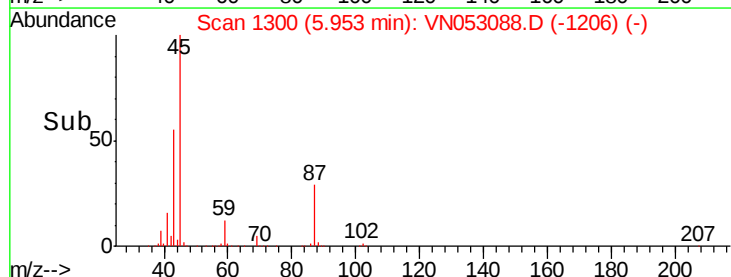
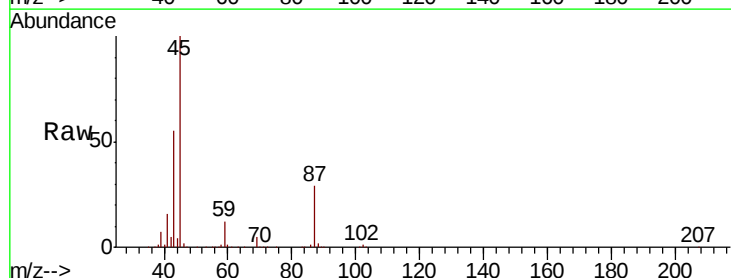
Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#22
Diisopropyl ether
Concen: 54.246 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.2	45.5	68.3
87	28.5	22.0	33.0
59	11.5	9.4	14.0





#23

Vinyl Acetate

Concen: 284.102 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion: 43 Resp: 4742232

Ion Ratio Lower Upper

43 100

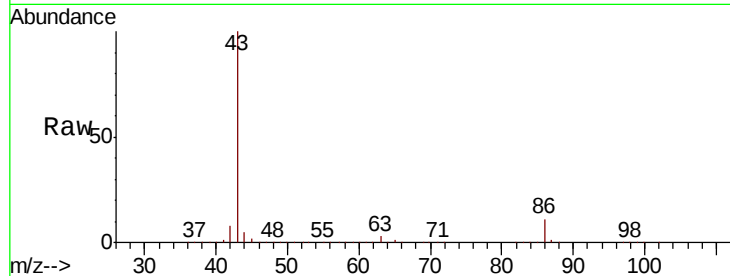
86 10.5 8.1 12.1

Manual Integrations

APPROVED

MMDadoda

12/21/2018 11:31:52 AM



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-1250) (-)

Ion 86.00 (85.70 to 86.70): VN052954.D (-1250) (-)

5.90

1500000

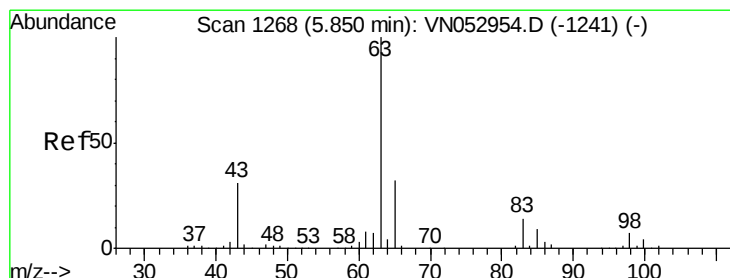
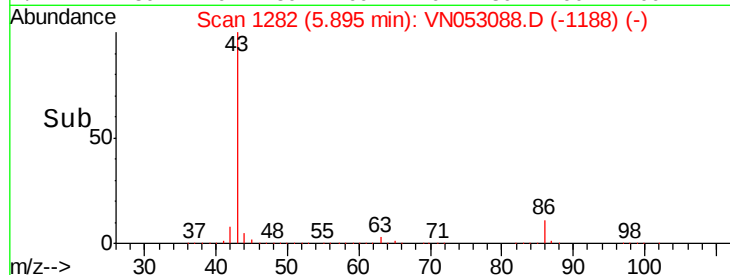
1000000

500000

0

5.80 6.00 6.20

Time-->



#24

1,1-Dichloroethane

Concen: 51.694 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

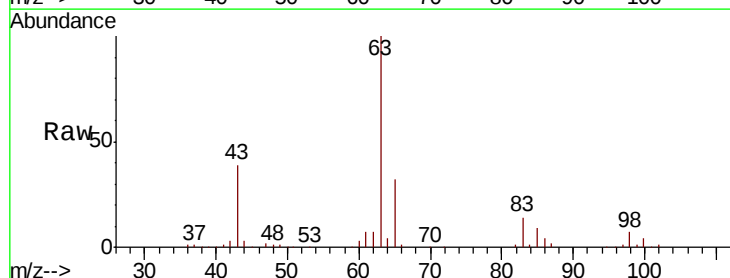
Tgt Ion: 63 Resp: 891691

Ion Ratio Lower Upper

63 100

98 6.6 3.1 9.4

100 4.1 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN052954.D (-1241) (-)

Ion 97.90 (97.60 to 98.60): VN052954.D (-1241) (-)

Ion 99.90 (99.60 to 100.60): VN052954.D (-1241) (-)

5.85

300000

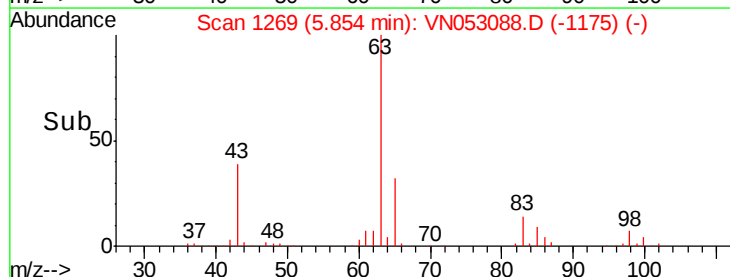
200000

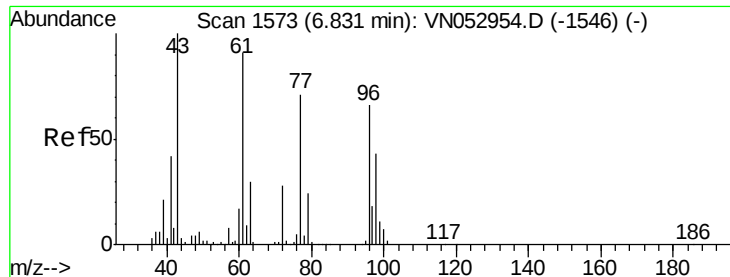
100000

0

5.70 5.80 5.90 6.00

Time-->





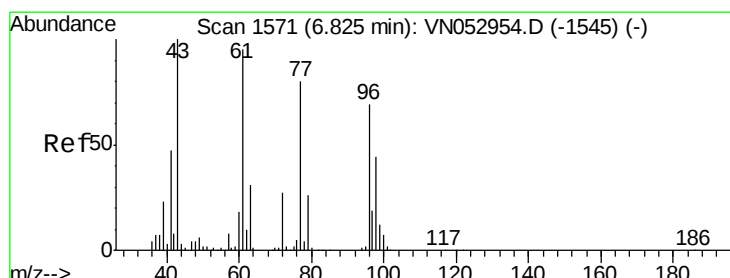
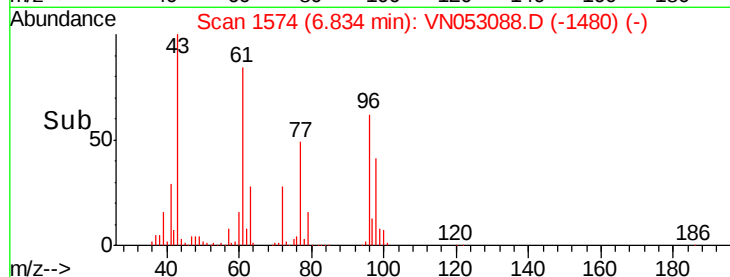
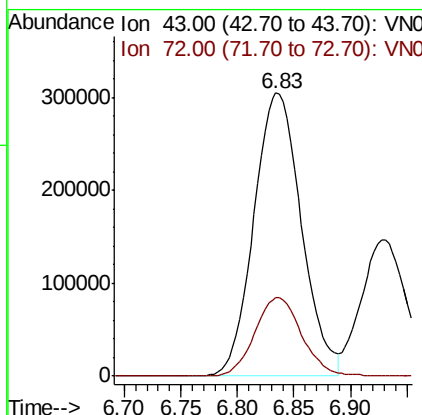
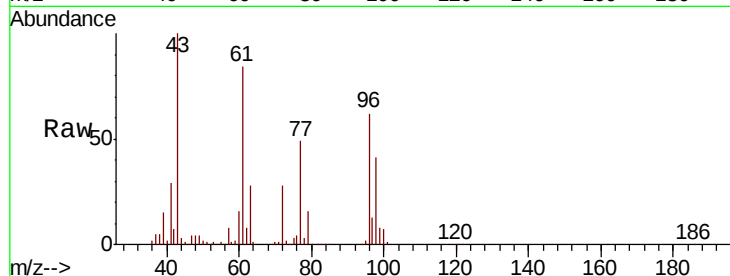
#25
2-Butanone
Concen: 287.199 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion: 43 Resp: 883397
Ion Ratio Lower Upper
43 100
72 27.8 21.0 31.6

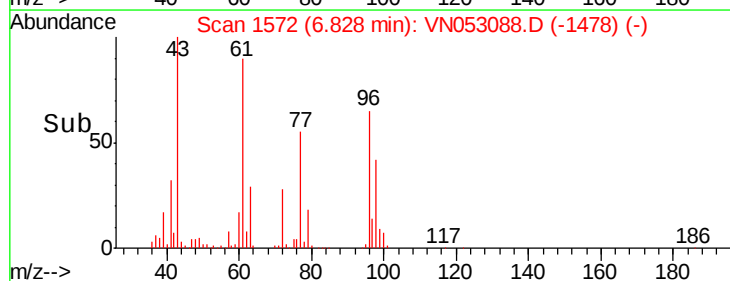
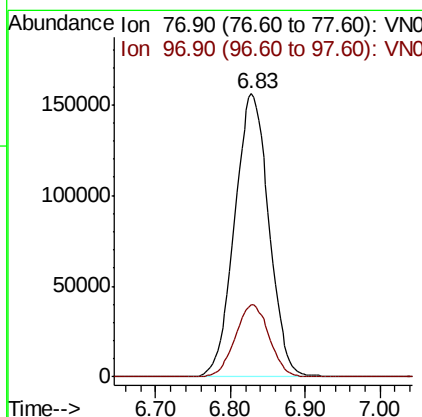
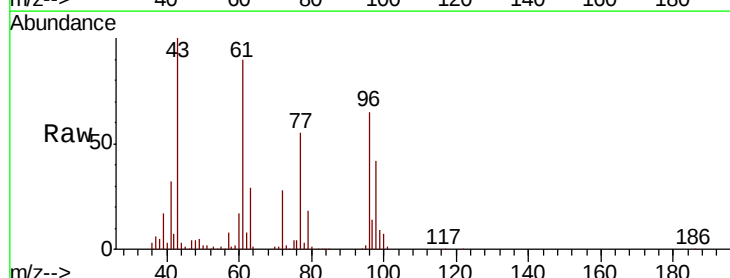
Manual Integrations
APPROVED

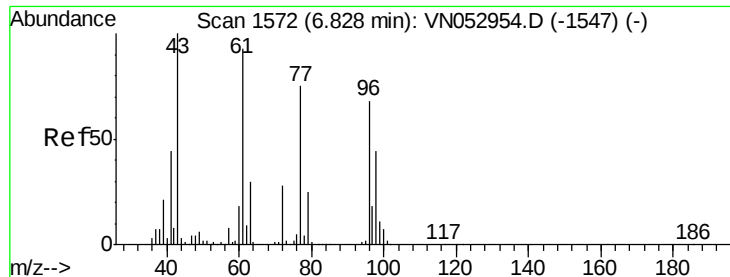
MMDadoda
12/21/2018 11:31:52 AM



#26
2,2-Dichloropropane
Concen: 37.704 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion: 77 Resp: 496466
Ion Ratio Lower Upper
77 100
97 25.4 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 52.077 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

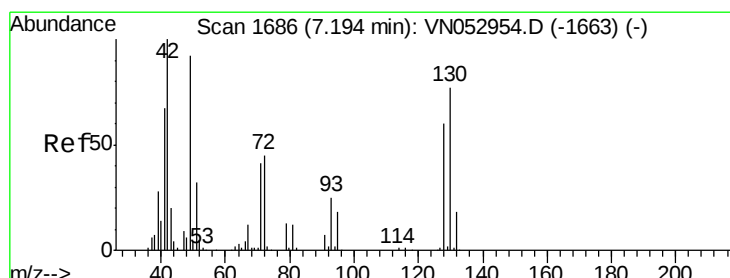
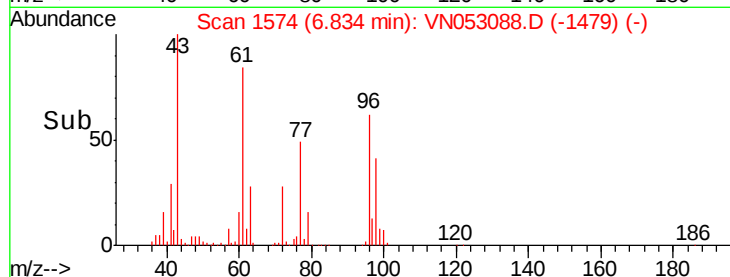
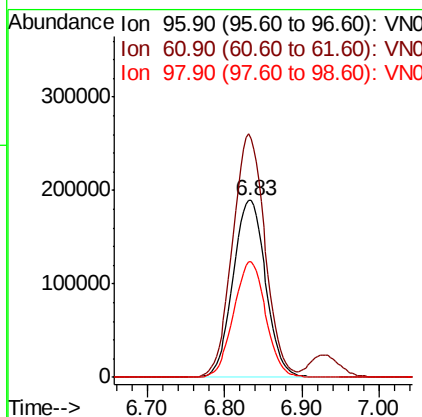
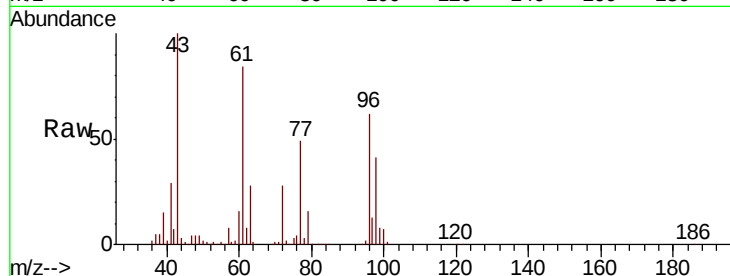
ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion:	96	Resp:	556135
Ion Ratio	Lower	Upper	
96	100		
61	136.2	0.0	284.2
98	64.3	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#28

Bromochloromethane

Concen: 55.604 ug/l

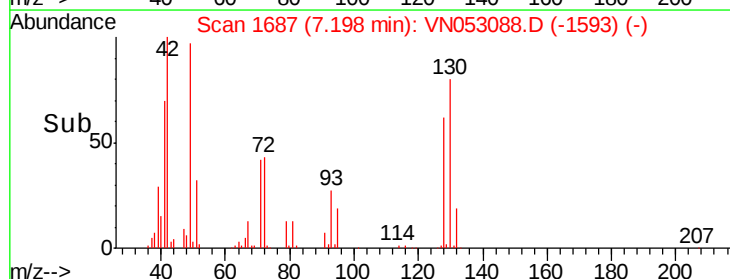
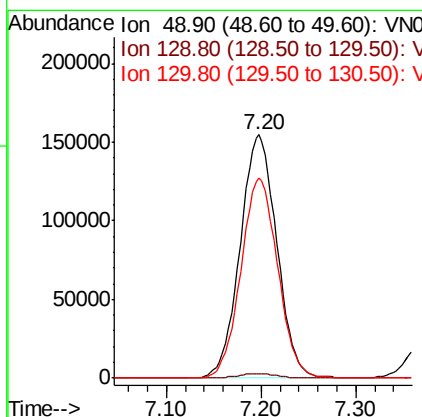
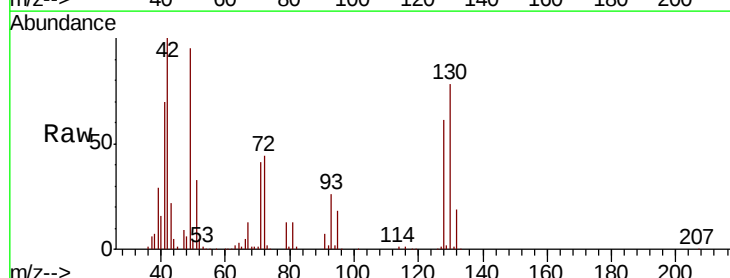
RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Tgt Ion:	49	Resp:	415610
Ion Ratio	Lower	Upper	
49	100		
129	1.9	0.0	4.0
130	82.8	63.3	94.9





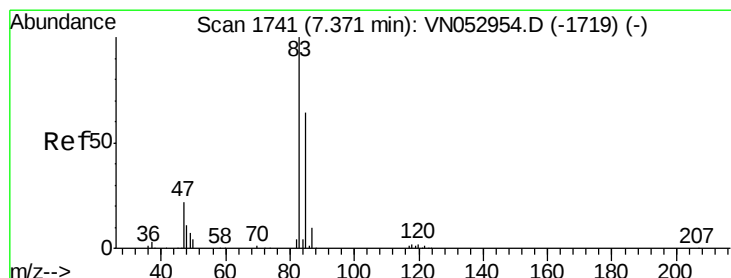
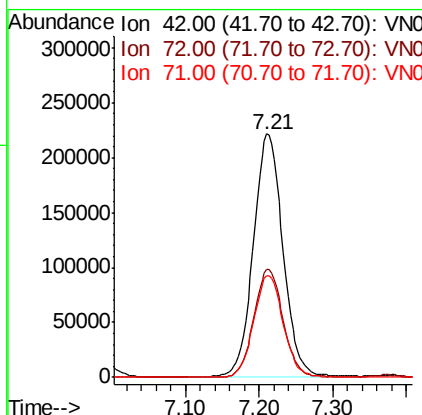
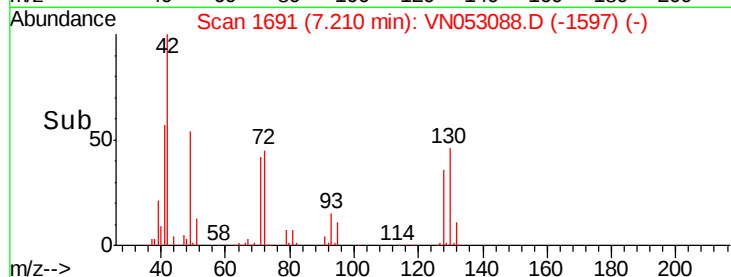
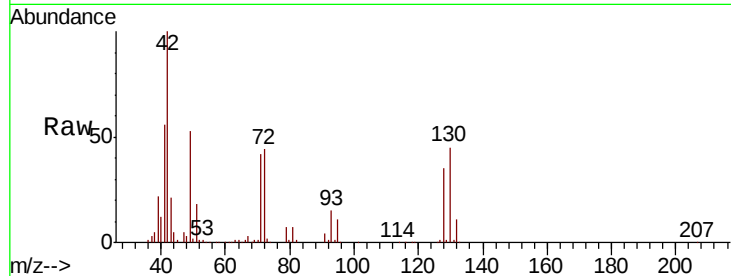
#29
Tetrahydrofuran
Concen: 269.614 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.0	34.7	52.1
71	41.7	32.3	48.5

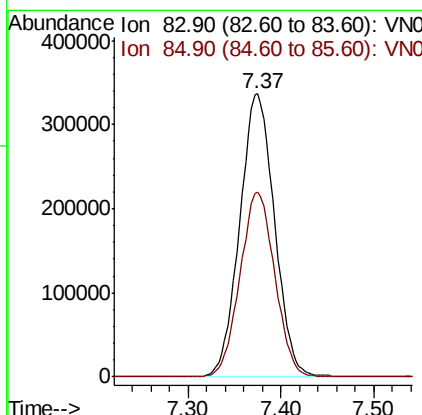
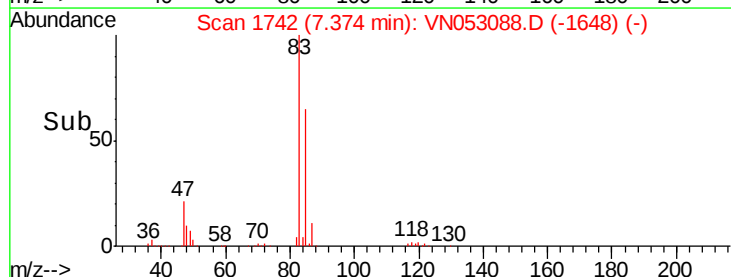
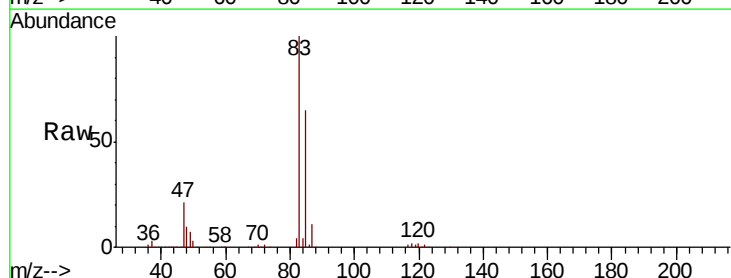
Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#30
Chloroform
Concen: 51.724 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.1	78.1





#31

Cyclohexane

Concen: 49.696 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion: 56 Resp: 804078

Ion Ratio Lower Upper

56 100

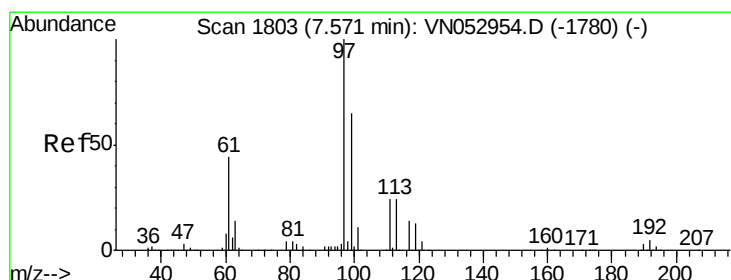
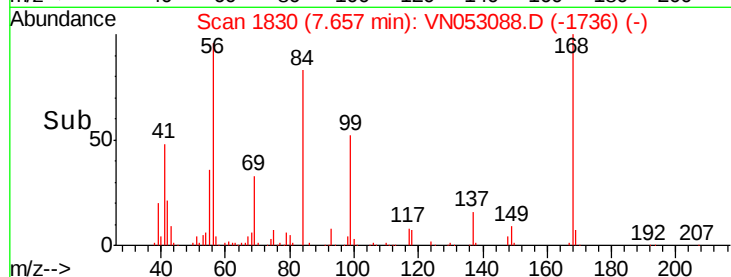
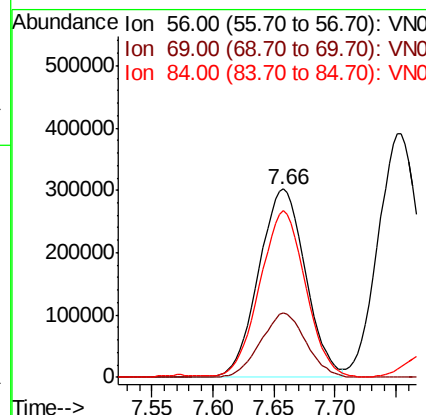
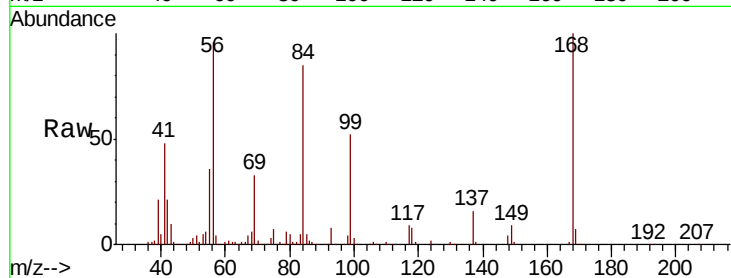
69 34.0 26.6 39.8

84 87.6 68.4 102.6

Manual Integrations
APPROVED

MMDadoda

12/21/2018 11:31:52 AM



#32

1,1,1-Trichloroethane

Concen: 50.016 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

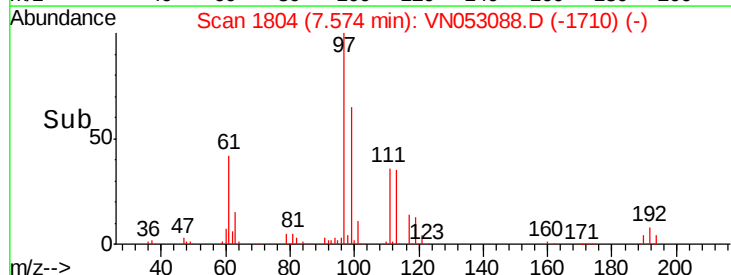
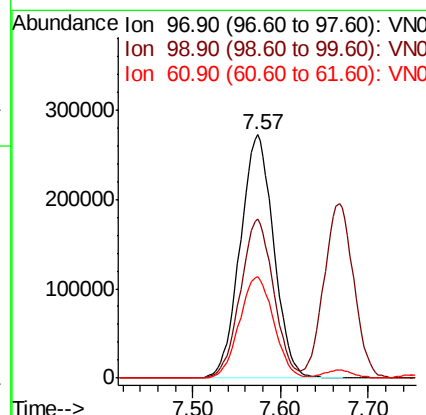
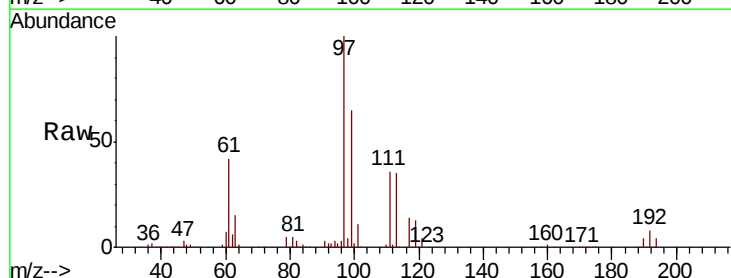
Tgt Ion: 97 Resp: 721980

Ion Ratio Lower Upper

97 100

99 64.7 51.1 76.7

61 42.7 35.0 52.6





#33

1,2-Dichloroethane-d4

Concen: 50.016 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion: 65 Resp: 523196

Ion Ratio Lower Upper

65 100

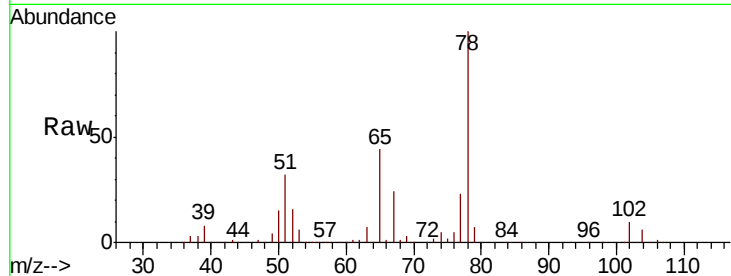
67 55.6 0.0 110.4

Manual Integrations

APPROVED

MMDadoda

12/21/2018 11:31:52 AM



Abundance Ion 64.90 (64.60 to 65.60): VN052954.D (-1925) (-)

Ion 66.90 (66.60 to 67.60): VN052954.D (-1925) (-)

8.03

250000

200000

150000

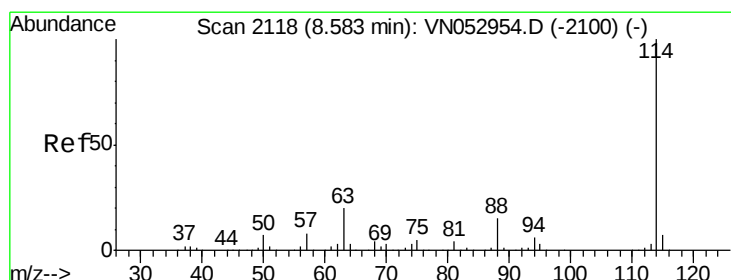
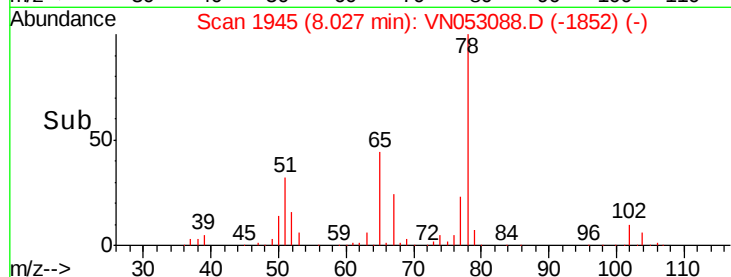
100000

50000

0

7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

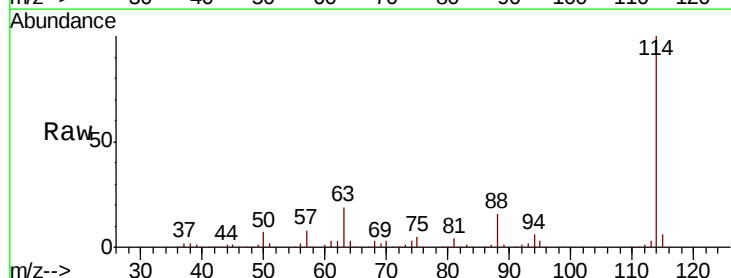
Tgt Ion: 114 Resp: 1445414

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.8

88 15.5 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN052954.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN052954.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN052954.D (-2100) (-)

8.59

800000

600000

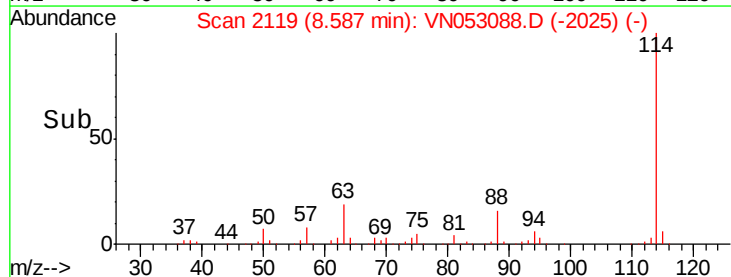
400000

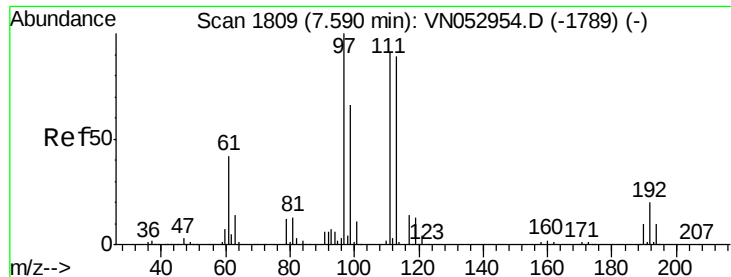
200000

0

8.50 8.60 8.70

Time-->





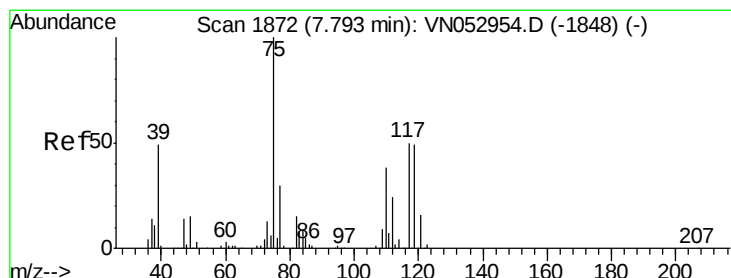
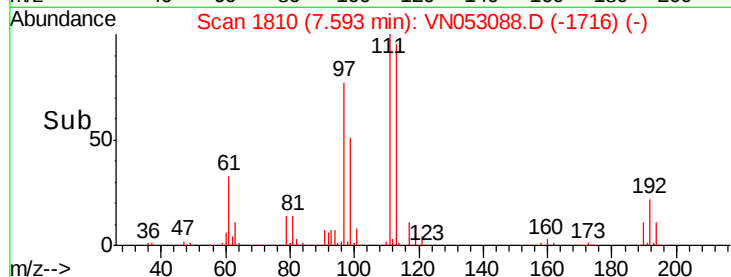
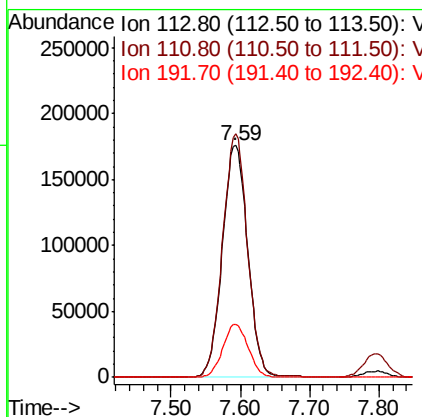
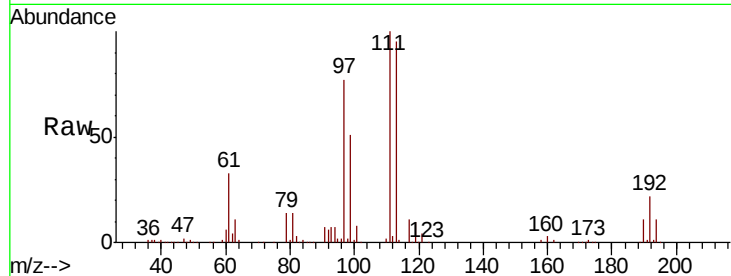
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053088.D
 Acq: 21 Dec 2018 6:09

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.7	83.0	124.4	
192	22.7	17.5	26.3	

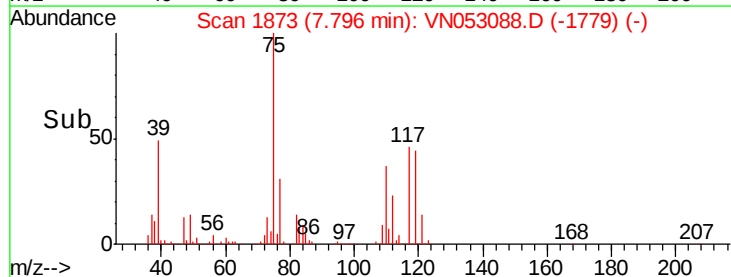
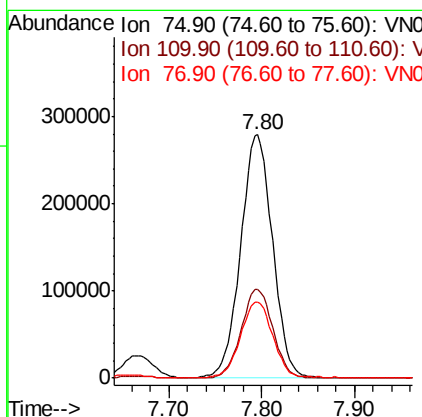
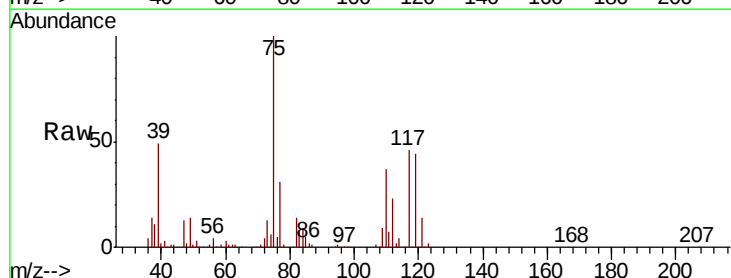
Manual Integrations
 APPROVED

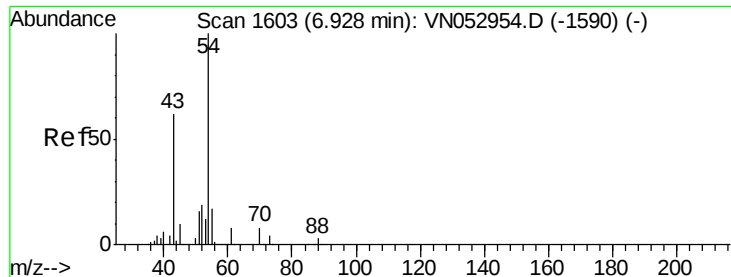
MMDadoda
 12/21/2018 11:31:52 AM



#36
 1,1-Dichloropropene
 Concen: 47.814 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN053088.D
 Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.5	18.2	54.6	
77	32.1	24.9	37.3	





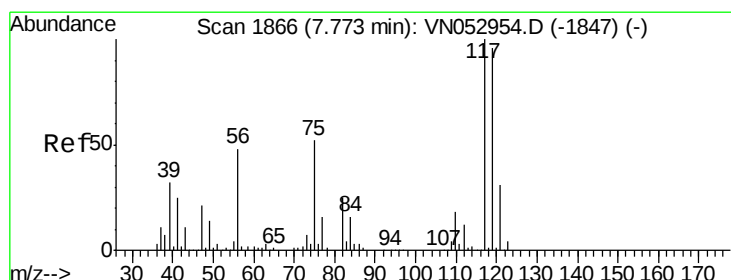
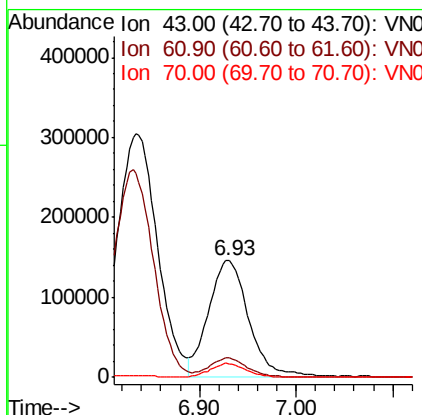
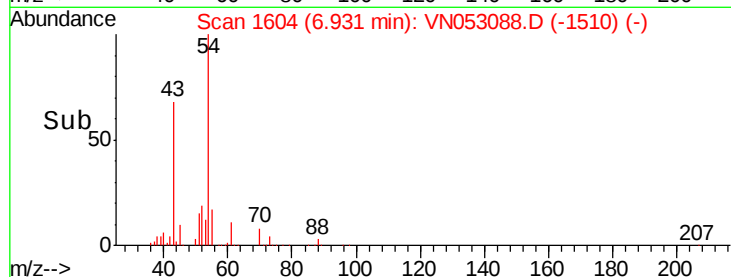
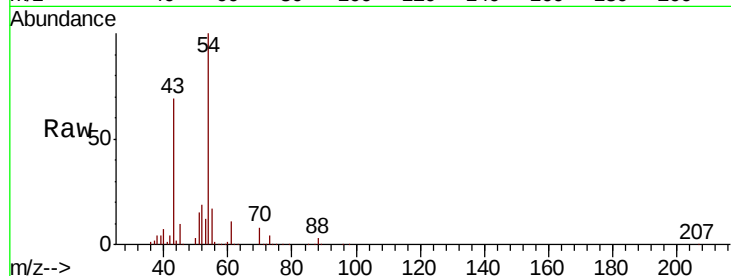
#37
Ethyl Acetate
Concen: 53.918 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion	43	61	70
Resp	417588		
Ratio	100	14.9	11.0
Lower		11.8	8.4
Upper		17.6	12.6

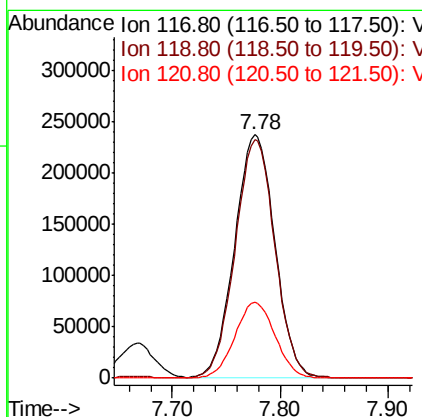
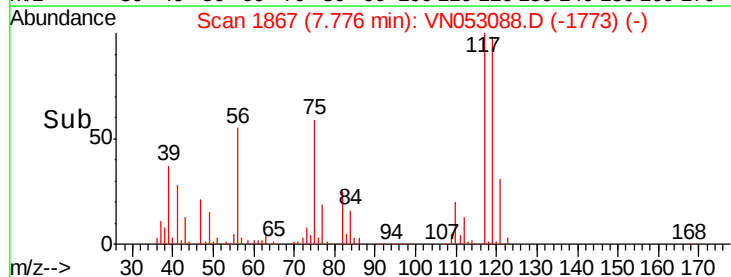
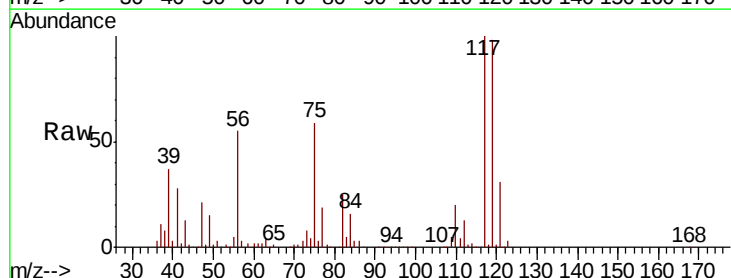
Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#38
Carbon Tetrachloride
Concen: 48.059 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	117	119	121
Resp	611139		
Ratio	100	98.2	31.3
Lower		77.1	24.9
Upper		115.7	37.3





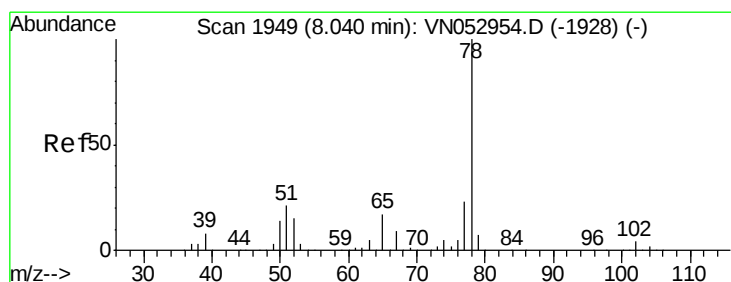
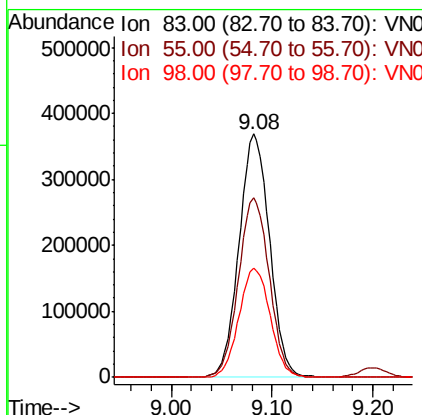
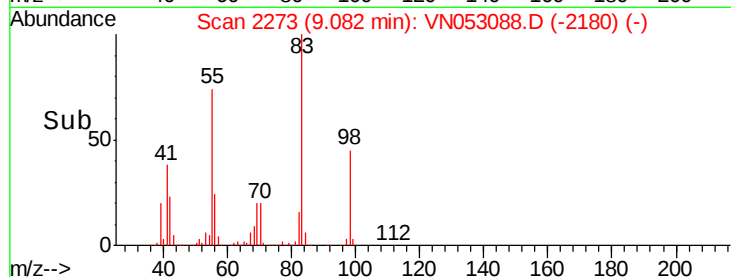
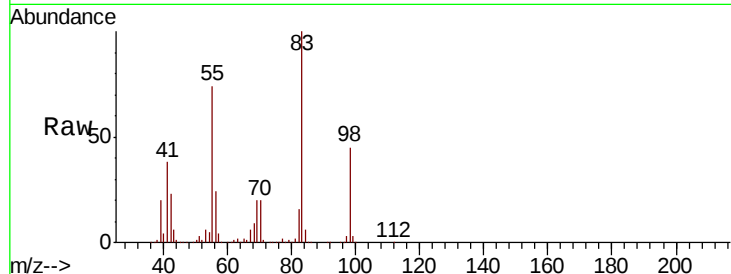
#39
Methvlcvclohexane
Concen: 45.891 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Resp	Lower	Upper
83	100	773420		
55	73.5		61.3	91.9
98	44.6		37.0	55.4

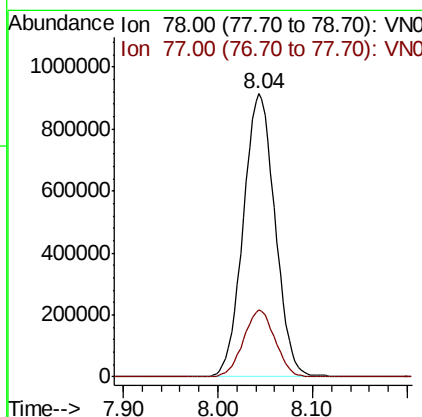
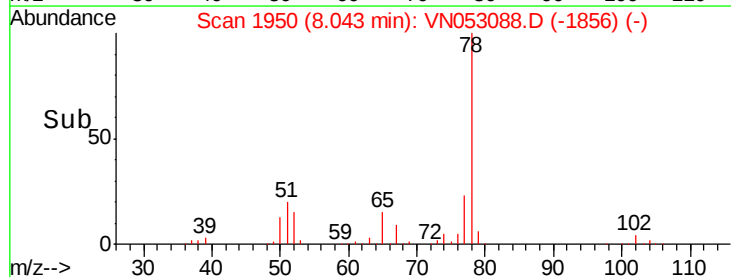
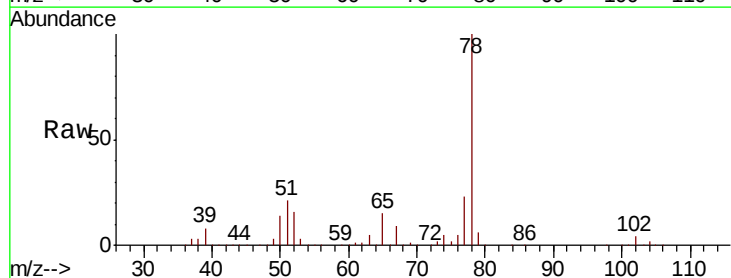
Manual Integrations
APPROVED

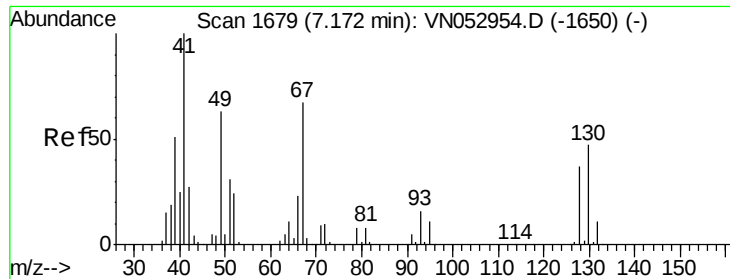
MMDadoda
12/21/2018 11:31:52 AM



#40
Benzene
Concen: 51.760 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	2135964		
77	23.4		18.5	27.7





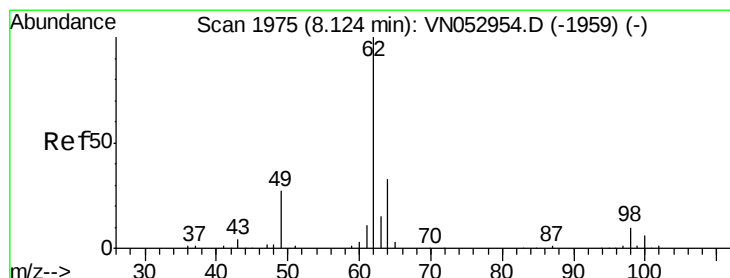
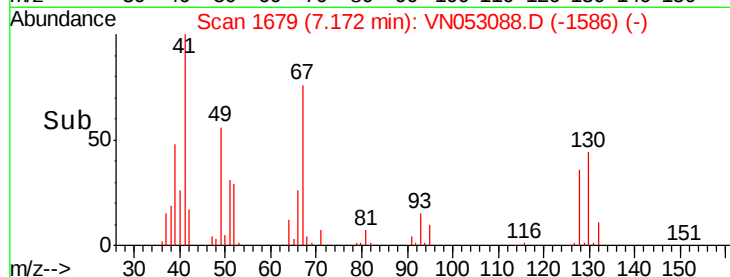
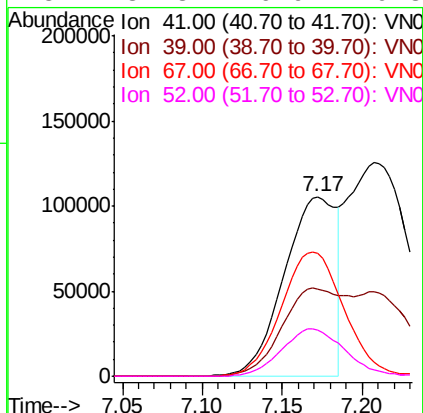
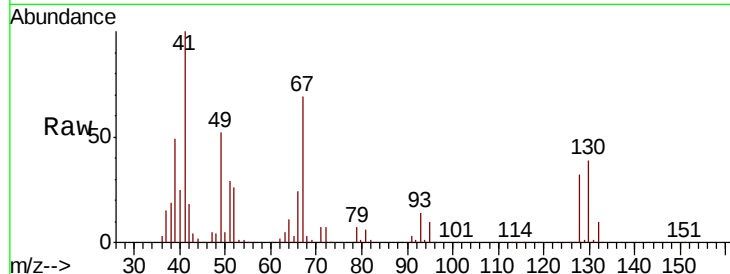
#41
Methacrylonitrile
Concen: 53.860 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Lower	Upper
41	100		
39	61.5	48.0	72.0
67	83.6	70.3	105.5
52	32.3	26.9	40.3

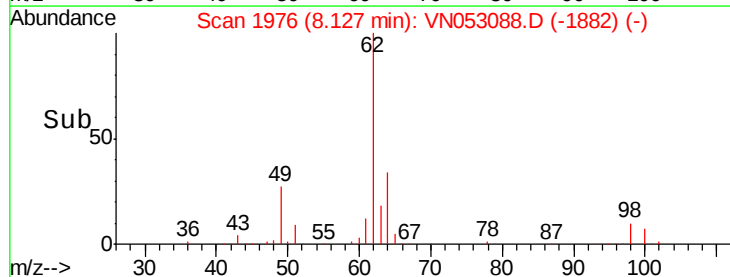
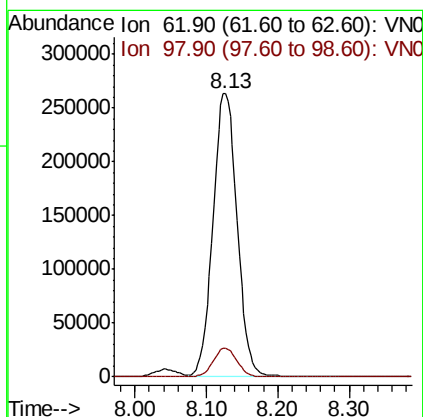
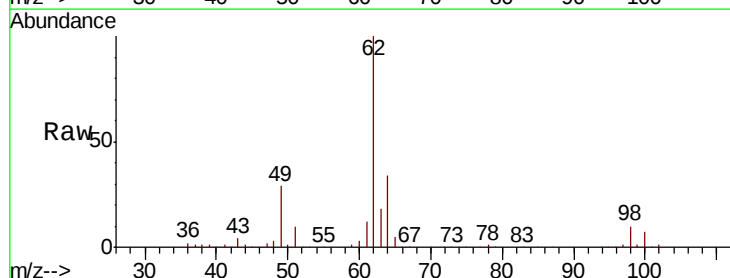
Manual Integrations
APPROVED

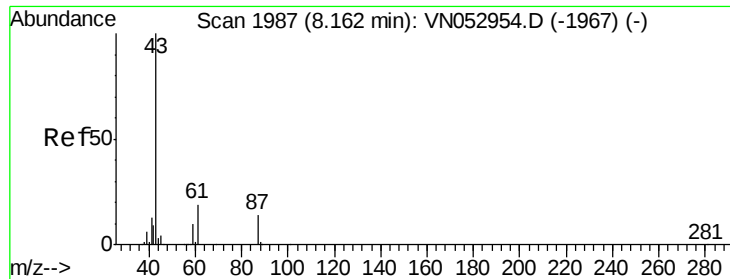
MMDadoda
12/21/2018 11:31:52 AM



#42
1,2-Dichloroethane
Concen: 50.749 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.0





#43

Isopropyl Acetate

Concen: 53.044 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

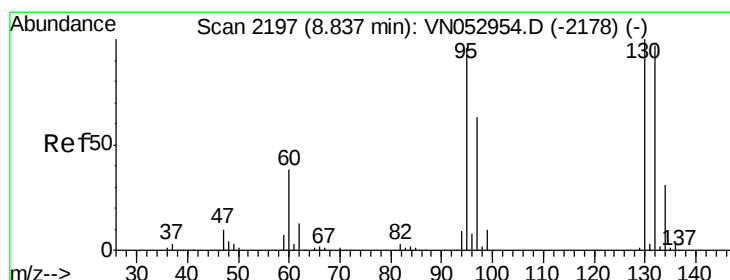
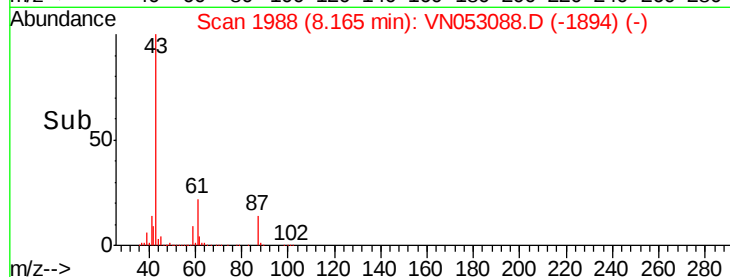
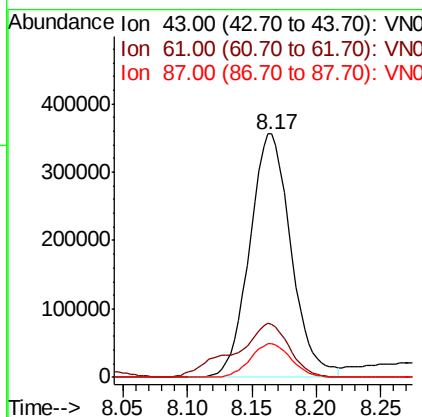
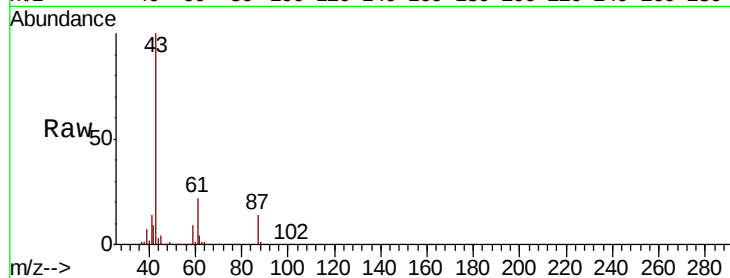
ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion:	43	Resp:	794052
Ion	Ratio	Lower	Upper
43	100		
61	29.1	22.9	34.3
87	13.7	10.6	15.8

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#44

Trichloroethene

Concen: 47.055 ug/l

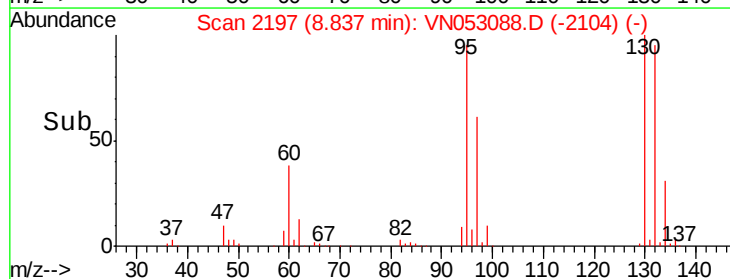
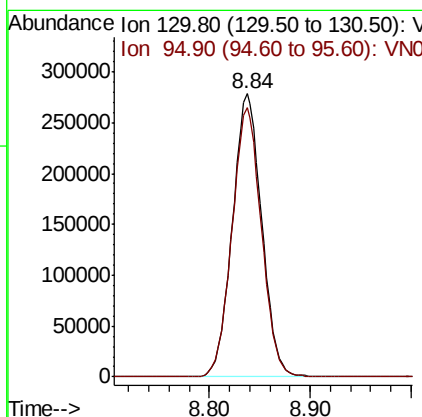
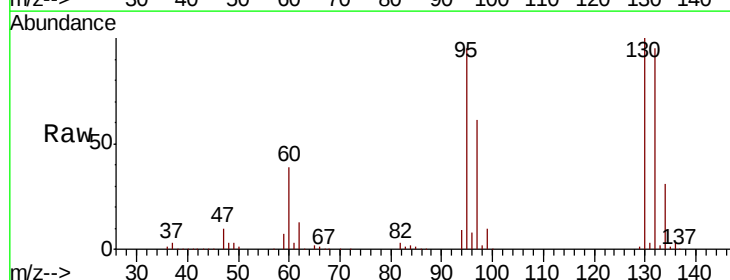
RT: 8.84 min Scan# 2197

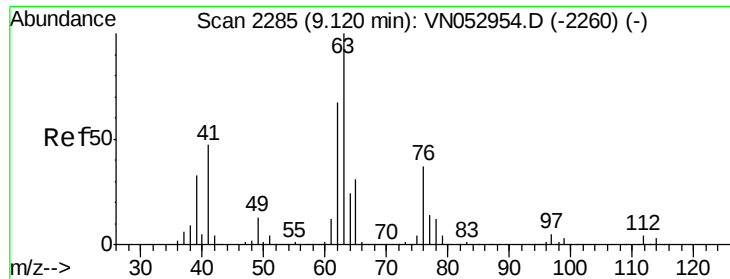
Delta R.T. -0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Tgt Ion:	130	Resp:	561641
Ion	Ratio	Lower	Upper
130	100		
95	95.1	0.0	197.8





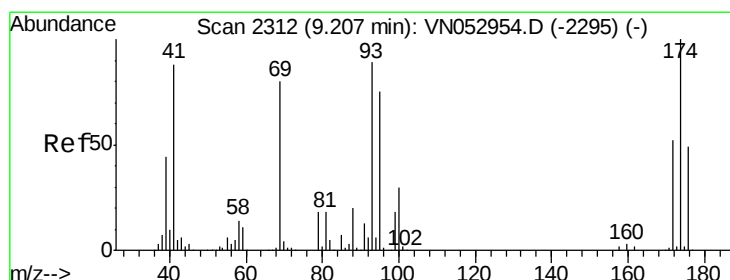
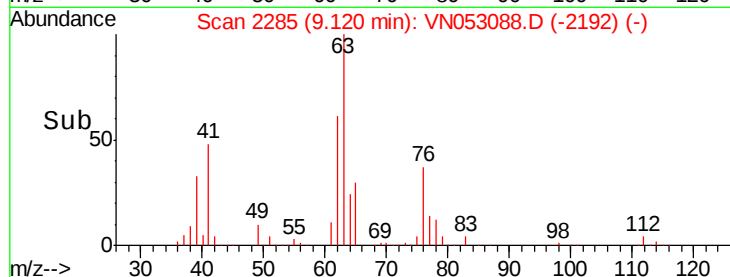
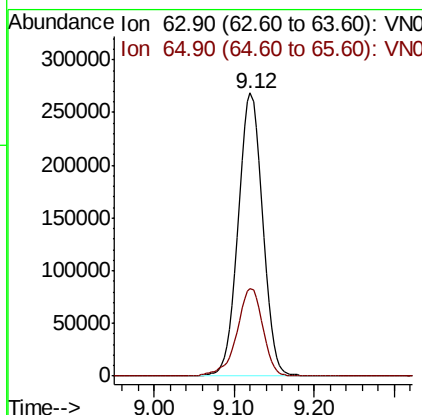
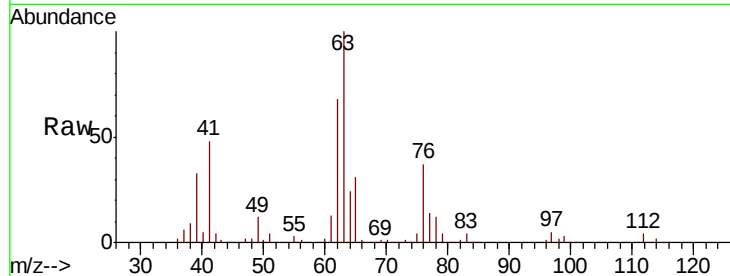
#45
 1,2-Dichloropropane
 Concen: 51.360 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN053088.D
 Acq: 21 Dec 2018 6:09

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-13-8.0-122018MS

Tot Ion: 63 Resp: 552056
 Ion Ratio Lower Upper
 63 100
 65 31.0 24.6 37.0

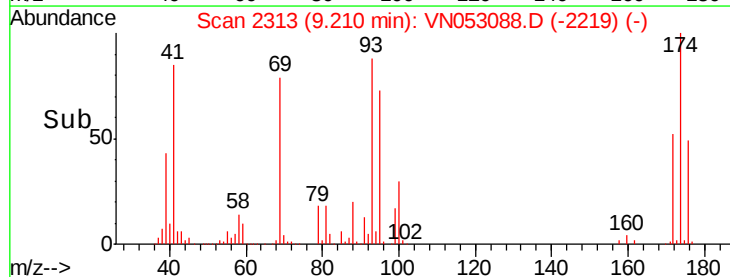
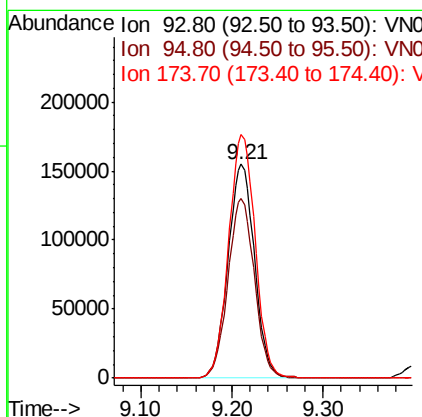
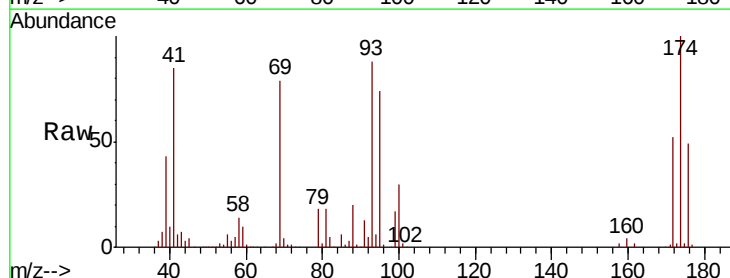
Manual Integrations
 APPROVED

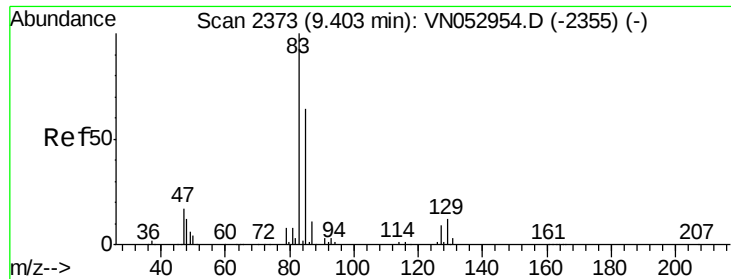
MMDadoda
 12/21/2018 11:31:52 AM



#46
 Dibromomethane
 Concen: 50.214 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053088.D
 Acq: 21 Dec 2018 6:09

Tgt Ion: 93 Resp: 314420
 Ion Ratio Lower Upper
 93 100
 95 83.6 67.8 101.6
 174 114.1 89.0 133.4





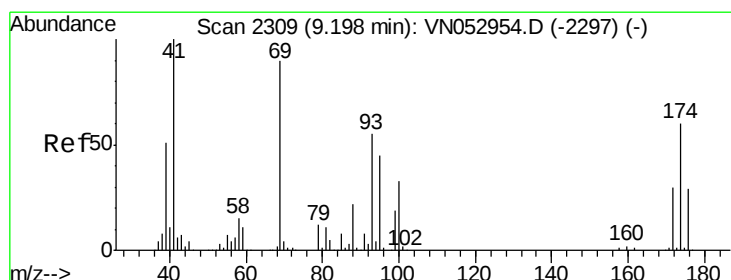
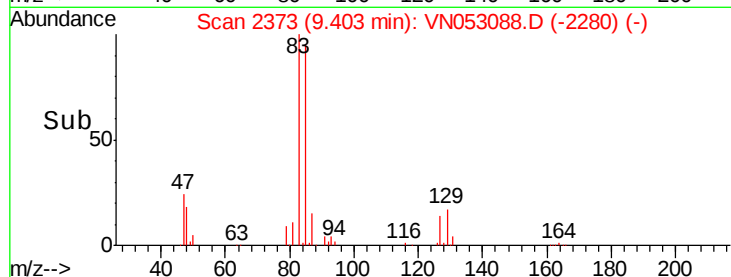
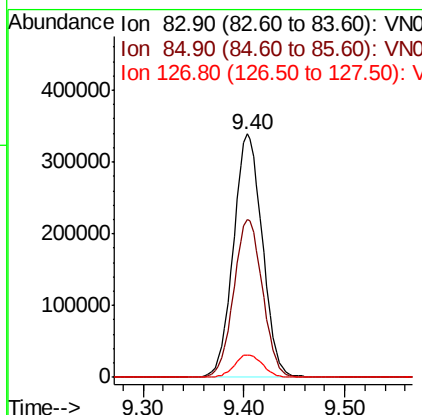
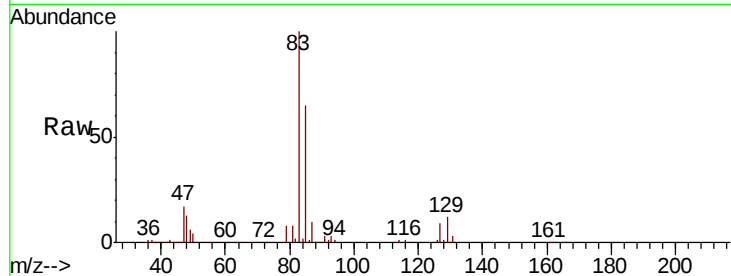
#47
Bromodichloromethane
Concen: 50.647 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion	83	Resp	674112
Ion Ratio	100	Lower	Upper
83	100		
85	65.1	51.6	77.4
127	9.3	7.1	10.7

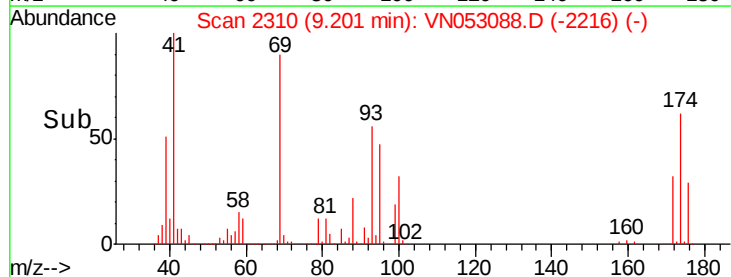
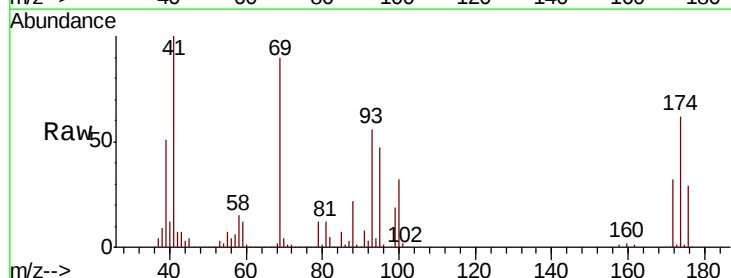
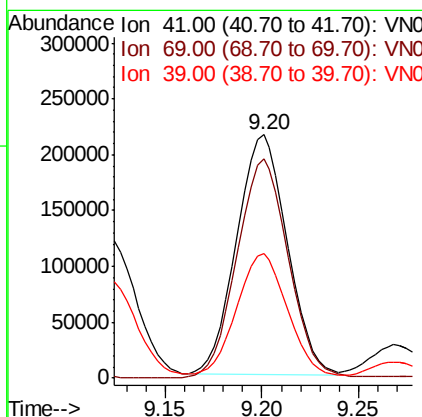
Manual Integrations
APPROVED

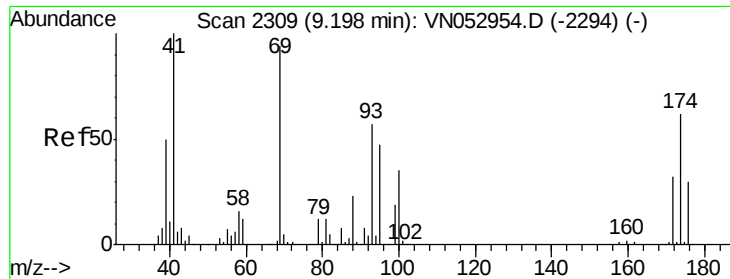
MMDadoda
12/21/2018 11:31:52 AM



#48
Methyl methacrylate
Concen: 52.004 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	41	Resp	390832
Ion Ratio	100	Lower	Upper
41	100		
69	93.0	72.2	108.2
39	52.9	41.9	62.9





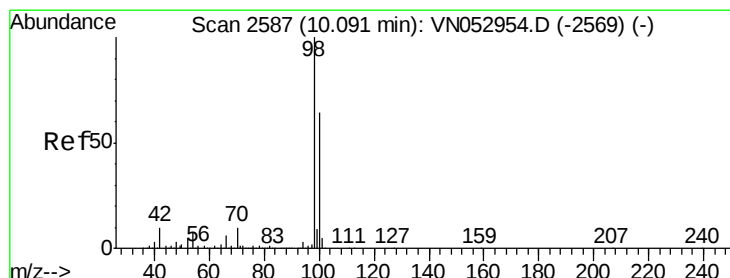
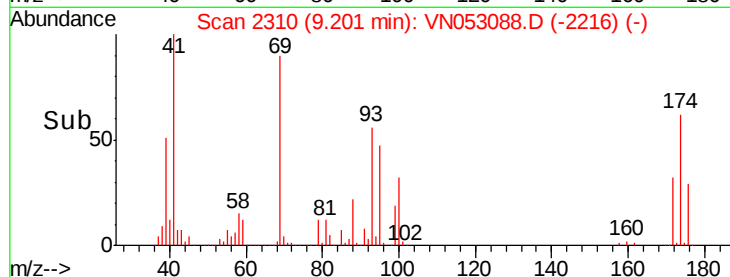
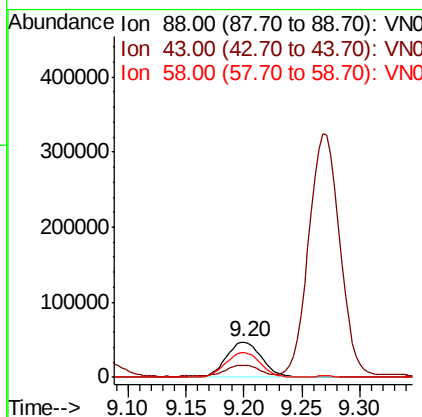
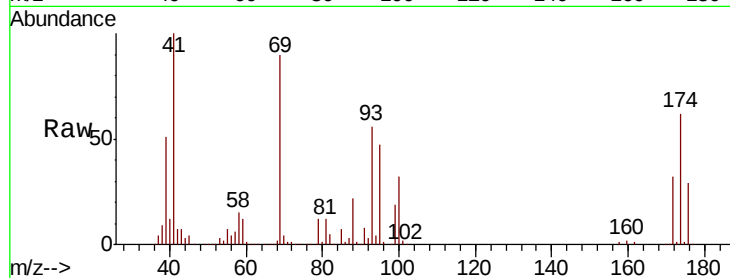
#49
1,4-Dioxane
Concen: 1047.807 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion	88	Resp	99611
Ion	Ratio	Lower	Upper
88	100		
43	31.0	26.6	40.0
58	69.4	58.4	87.6

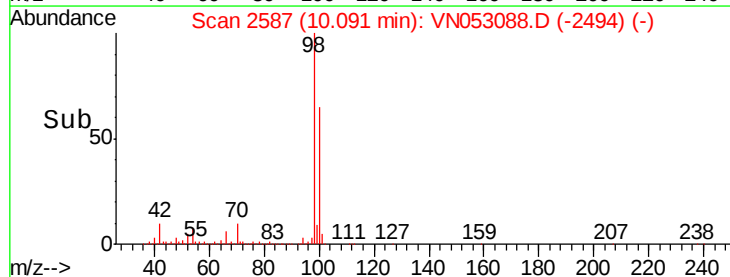
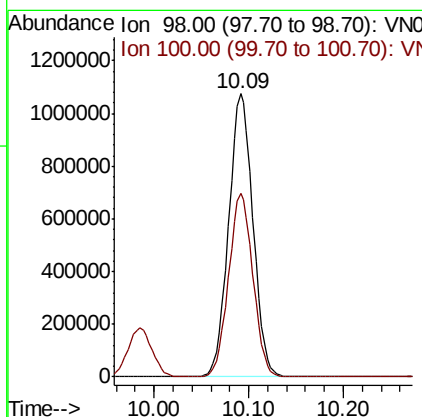
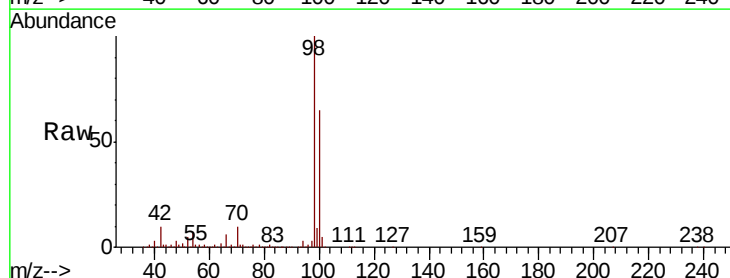
Manual Integrations
APPROVED

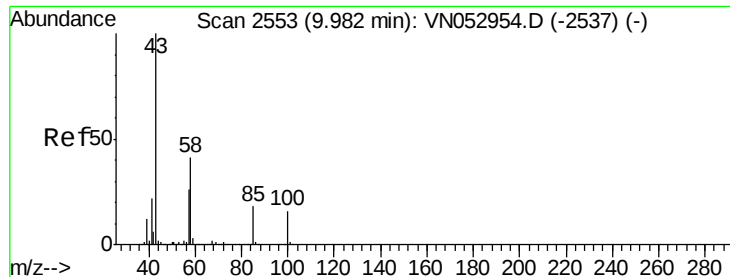
MMDadoda
12/21/2018 11:31:52 AM



#50
Toluene-d8
Concen: 1047.807 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	98	Resp	1916908
Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 281.308 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion: 43 Resp: 2109886

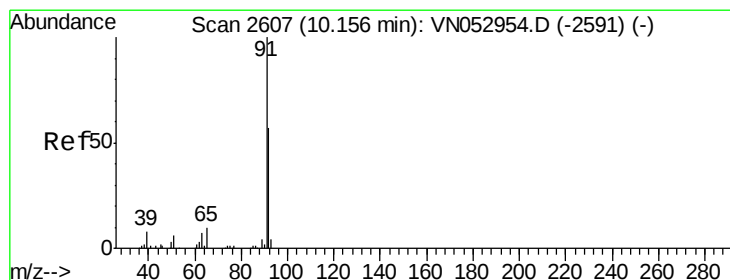
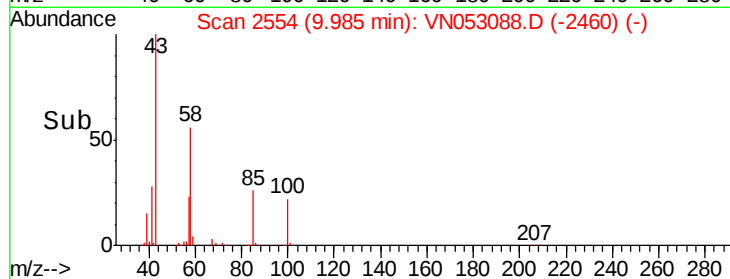
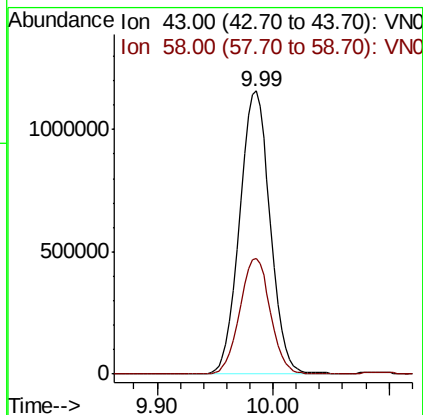
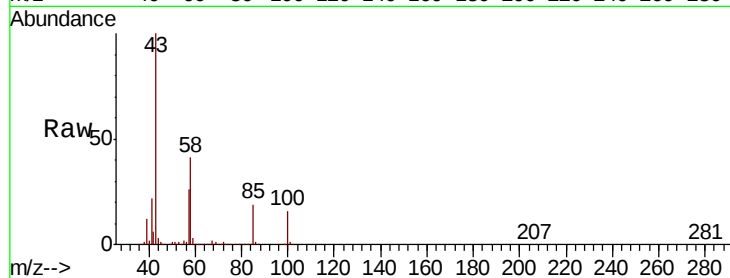
Ion Ratio Lower Upper

43 100

58 41.2 32.2 48.4

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#52

Toluene

Concen: 50.860 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053088.D

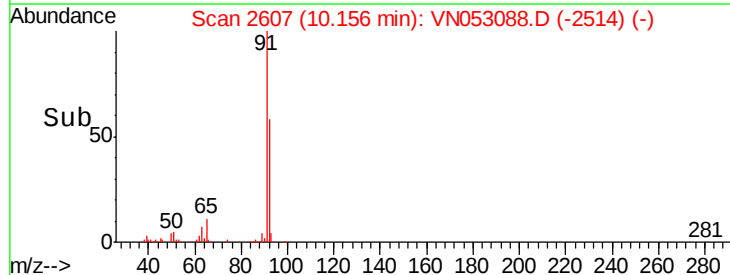
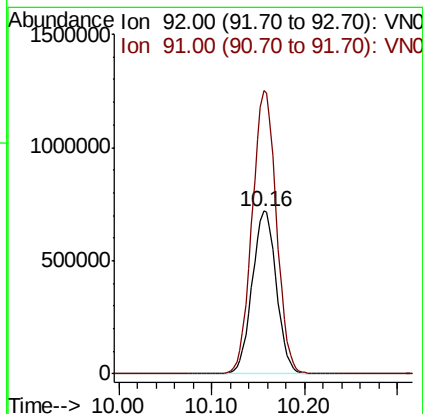
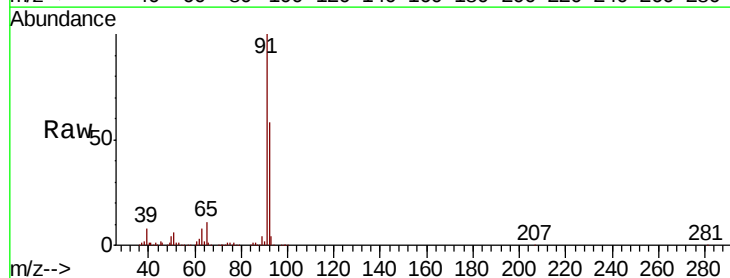
Acq: 21 Dec 2018 6:09

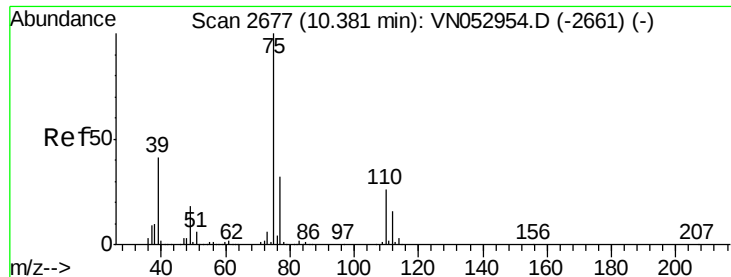
Tgt Ion: 92 Resp: 1300891

Ion Ratio Lower Upper

92 100

91 174.4 139.8 209.6





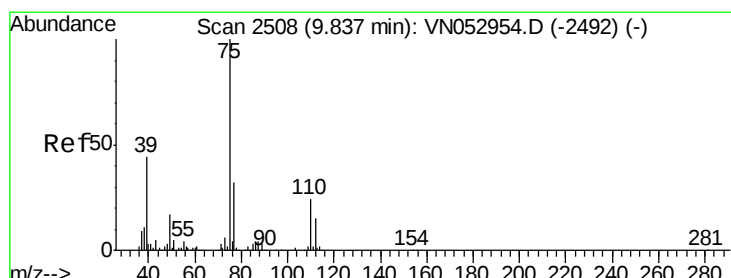
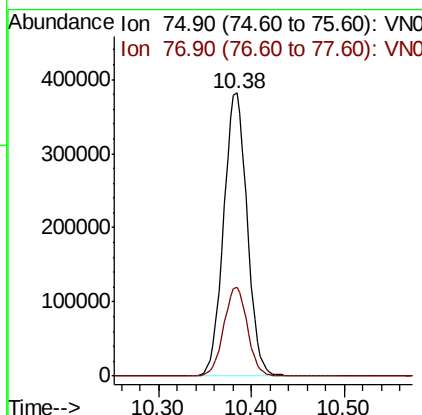
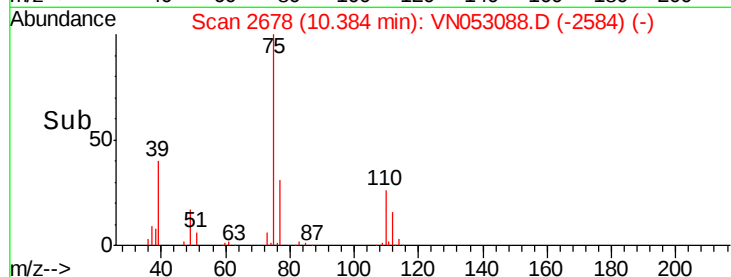
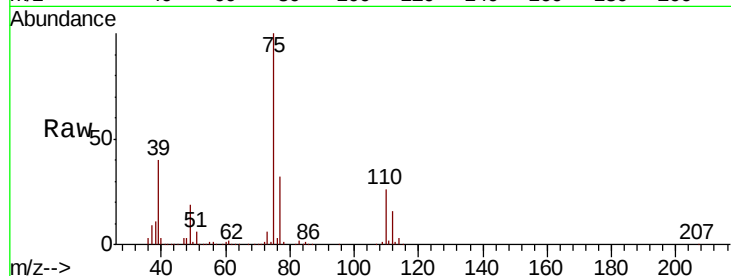
#53
t-1,3-Dichloropropene
Concen: 47.966 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion: 75 Resp: 671334
Ion Ratio Lower Upper
75 100
77 31.4 25.6 38.4

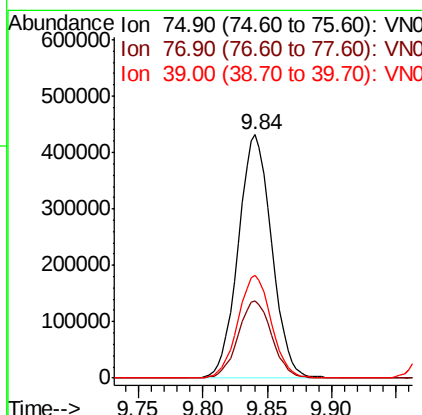
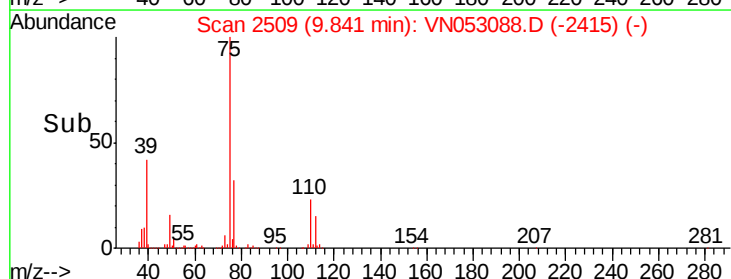
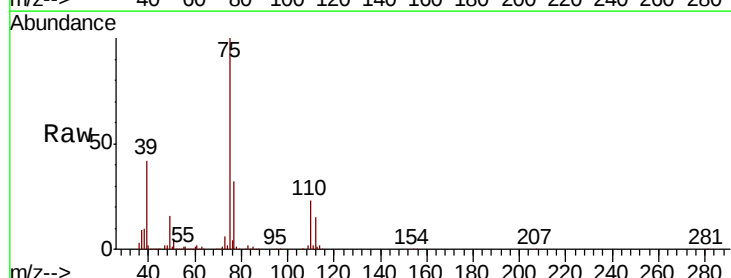
Manual Integrations
APPROVED

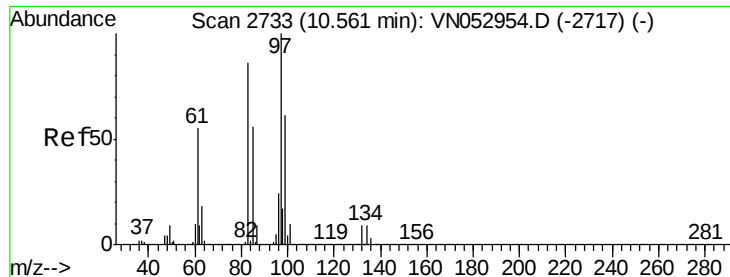
MMDadoda
12/21/2018 11:31:52 AM



#54
cis-1,3-Dichloropropene
Concen: 48.454 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion: 75 Resp: 778424
Ion Ratio Lower Upper
75 100
77 31.8 25.8 38.8
39 42.1 34.8 52.2





#55

1,1,2-Trichloroethane

Concen: 52.584 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

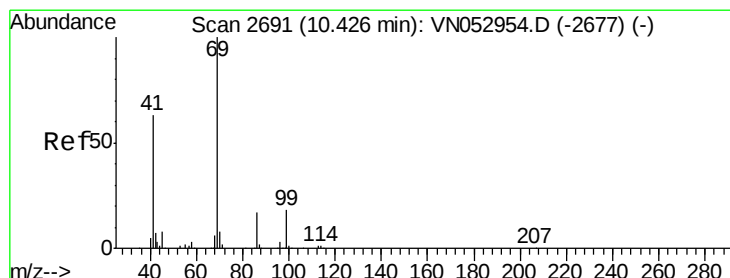
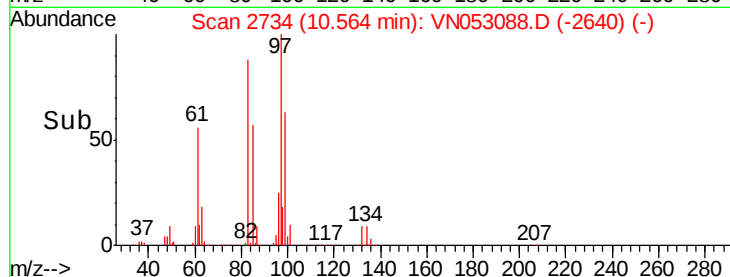
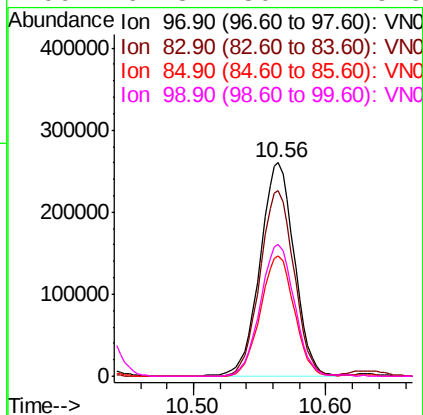
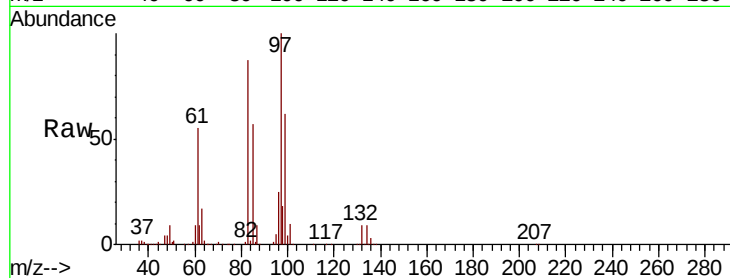
ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion:	97	Resp:	469230
Ion	Ratio	Lower	Upper
97	100		
83	86.7	70.9	106.3
85	56.6	45.4	68.2
99	61.8	50.4	75.6

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#56

Ethyl methacrylate

Concen: 55.412 ug/l

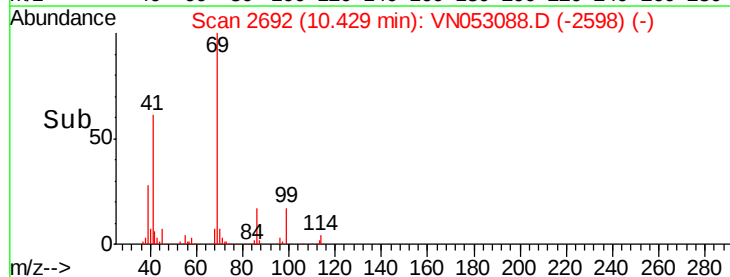
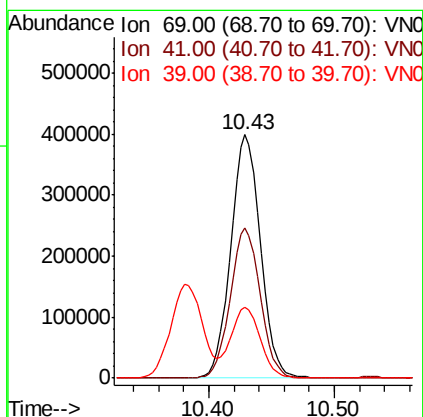
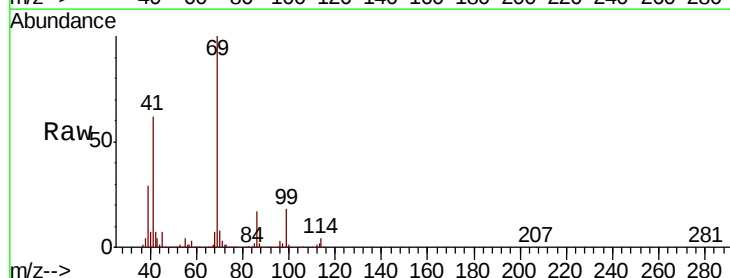
RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Tgt Ion:	69	Resp:	654470
Ion	Ratio	Lower	Upper
69	100		
41	61.8	51.7	77.5
39	29.2	24.6	37.0





#57

1,3-Dichloropropane

Concen: 51.739 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion: 76 Resp: 791704

Ion Ratio Lower Upper

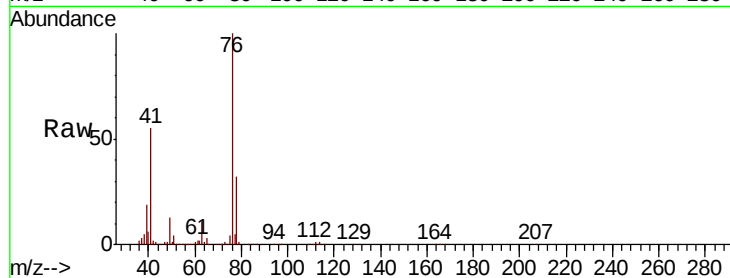
76 100

78 32.1 25.8 38.8

Manual Integrations
APPROVED

MMDadoda

12/21/2018 11:31:52 AM



Abundance Ion 75.90 (75.60 to 76.60): VN052954.D (-2762) (-)

Ion 77.90 (77.60 to 78.60): VN052954.D (-2762) (-)

10.71

400000

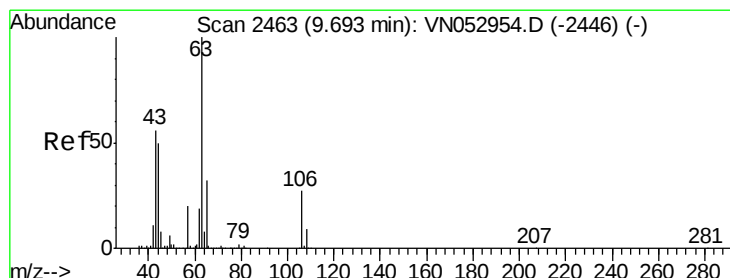
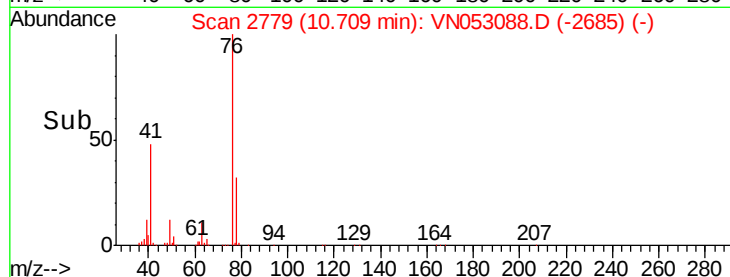
300000

200000

100000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 257.386 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053088.D

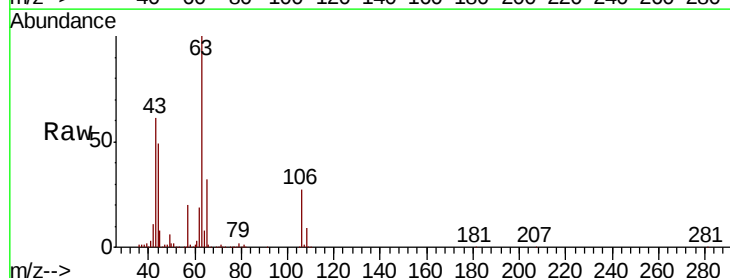
Acq: 21 Dec 2018 6:09

Tgt Ion: 63 Resp: 1668936

Ion Ratio Lower Upper

63 100

106 27.1 21.0 31.6



Abundance Ion 62.90 (62.60 to 63.60): VN052954.D (-2446) (-)

Ion 105.90 (105.60 to 106.60): VN052954.D (-2446) (-)

9.70

1000000

800000

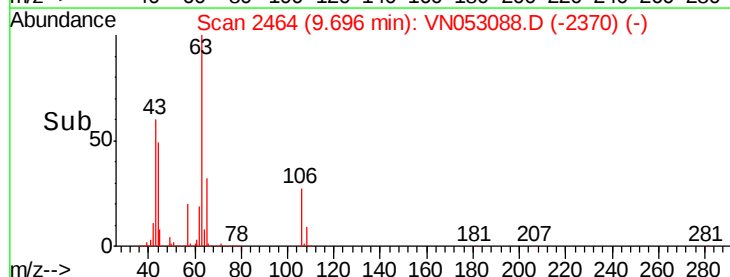
600000

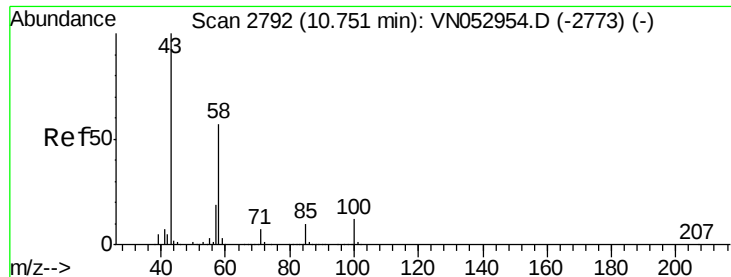
400000

200000

0

Time-->





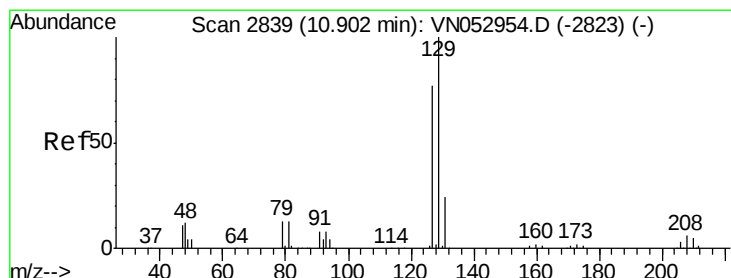
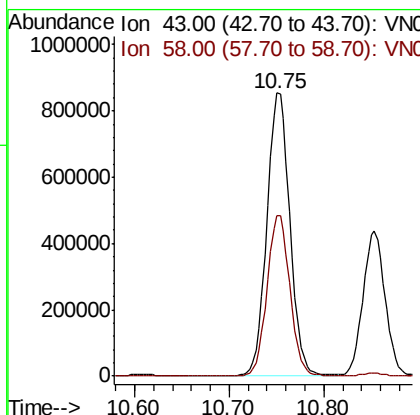
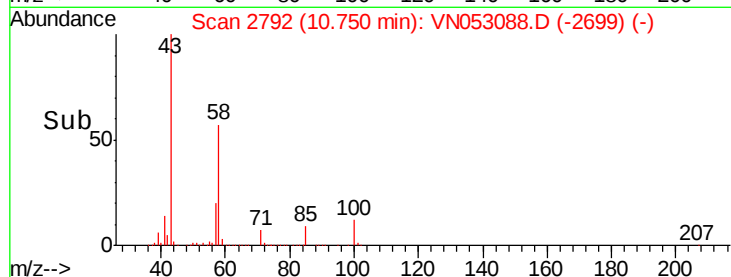
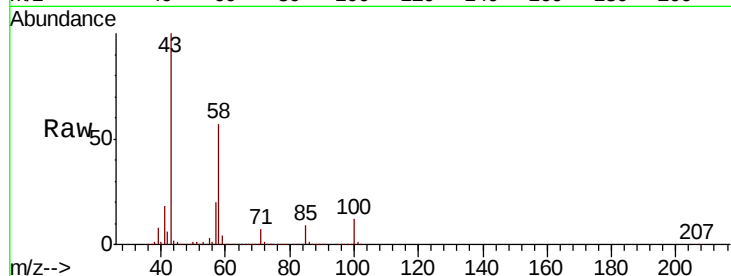
#59
2-Hexanone
Concen: 284.118 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion: 43 Resp: 1441772
Ion Ratio Lower Upper
43 100
58 56.6 28.1 84.3

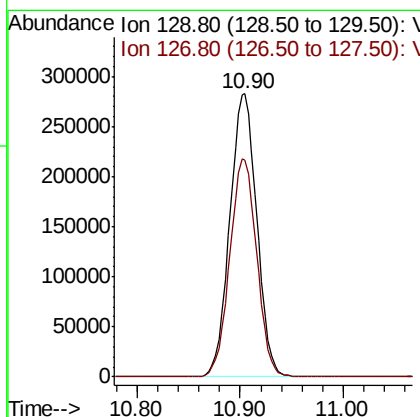
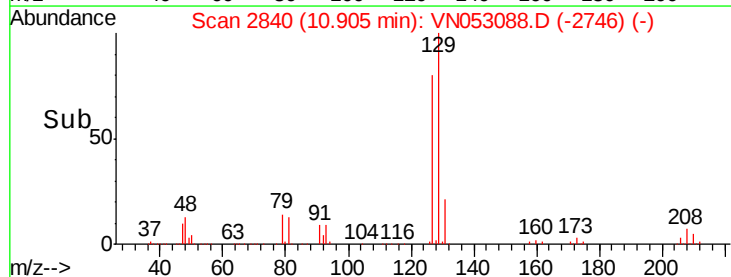
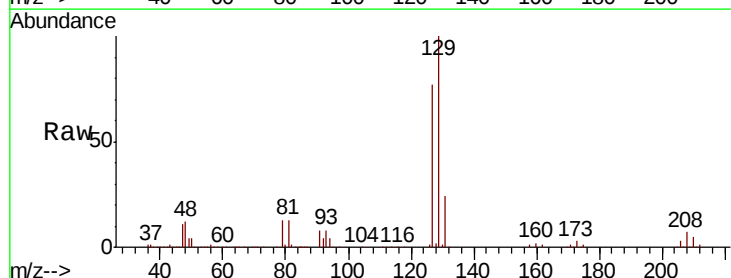
Manual Integrations
APPROVED

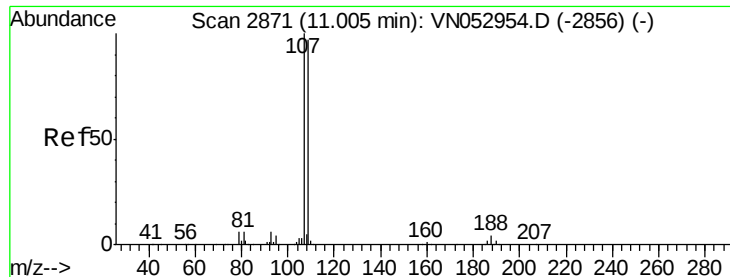
MMDadoda
12/21/2018 11:31:52 AM



#60
Dibromochloromethane
Concen: 50.520 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion: 129 Resp: 516033
Ion Ratio Lower Upper
129 100
127 76.9 38.6 116.0





#61

1,2-Dibromoethane

Concen: 50.819 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion: 107 Resp: 460553

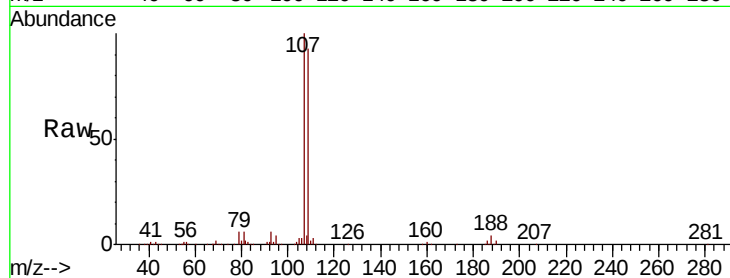
Ion Ratio Lower Upper

107 100

109 94.4 75.4 113.0

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

250000

200000

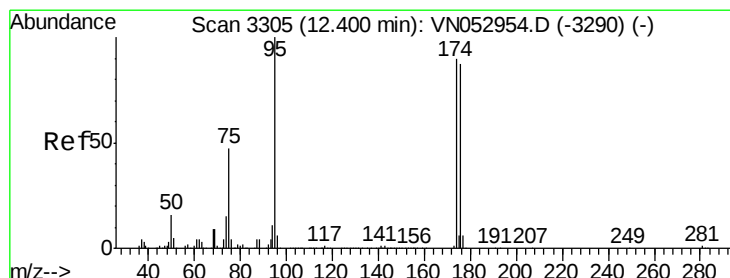
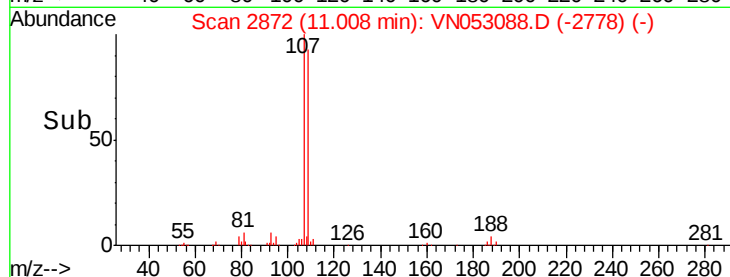
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 50.819 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

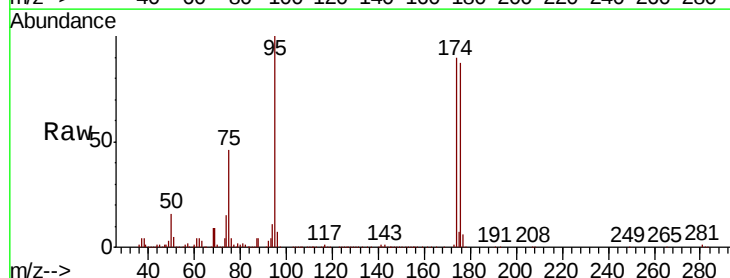
Tgt Ion: 95 Resp: 681316

Ion Ratio Lower Upper

95 100

174 90.1 0.0 178.8

176 87.5 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

500000

400000

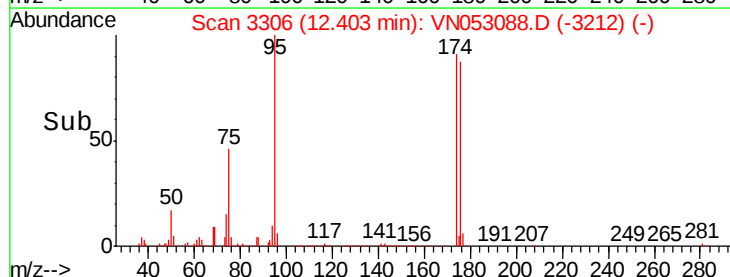
300000

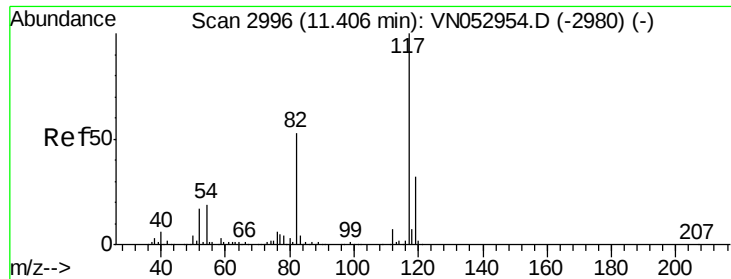
200000

100000

0

Time-->





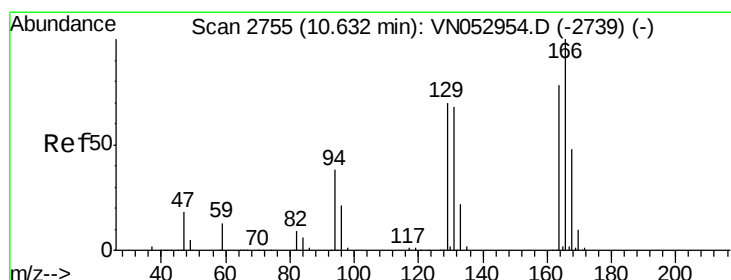
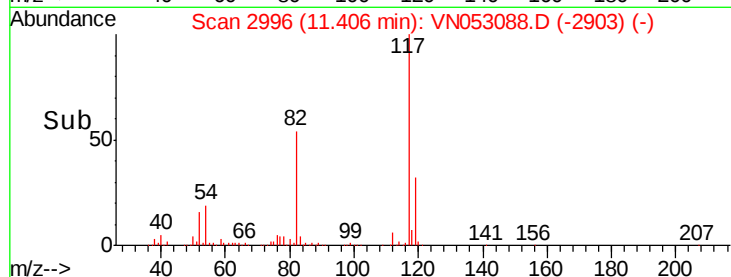
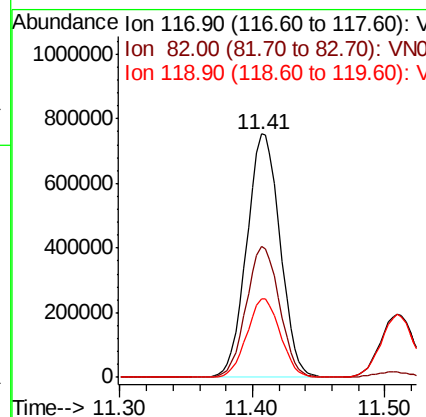
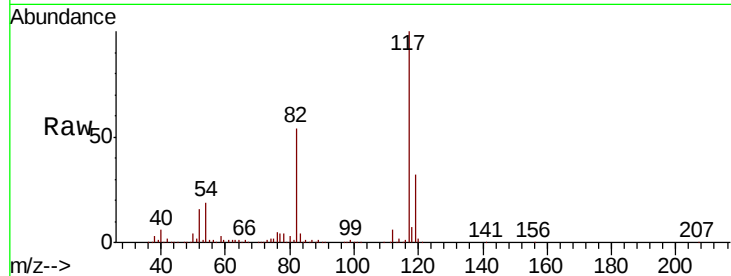
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	42.8	64.2
119	32.1	25.5	38.3

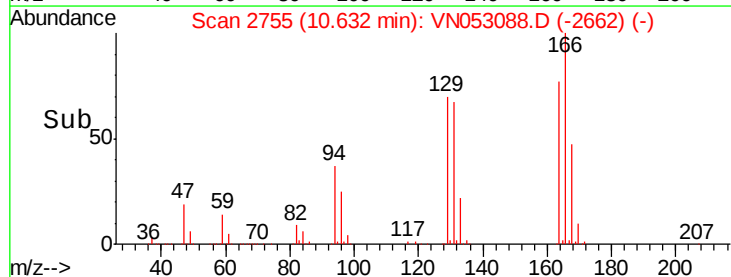
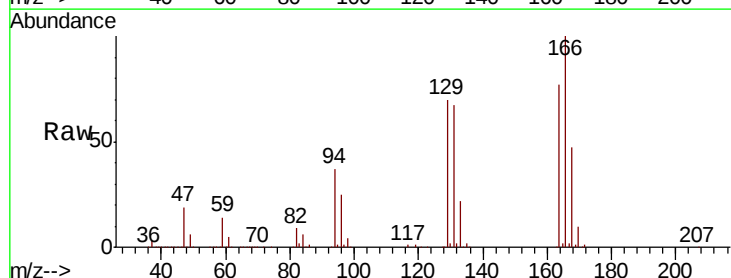
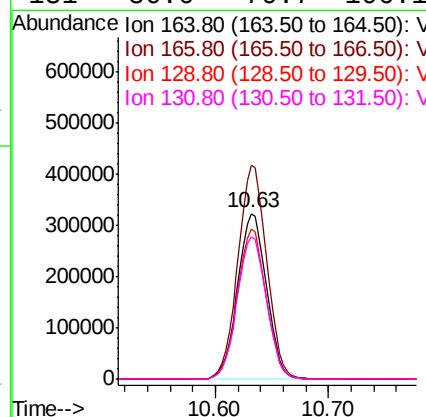
Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#64
Tetrachloroethene
Concen: 40.213 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.2	102.9	154.3
129	90.3	73.7	110.5
131	86.0	70.7	106.1





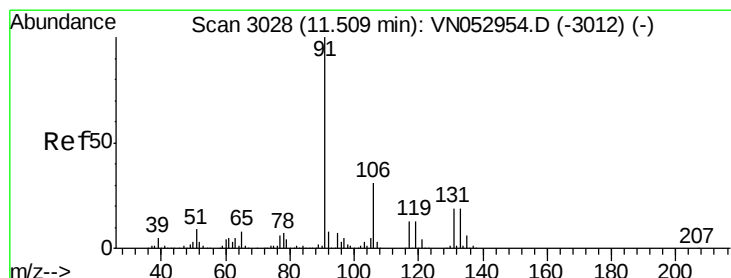
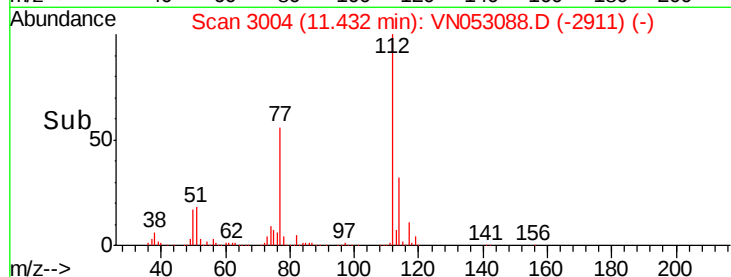
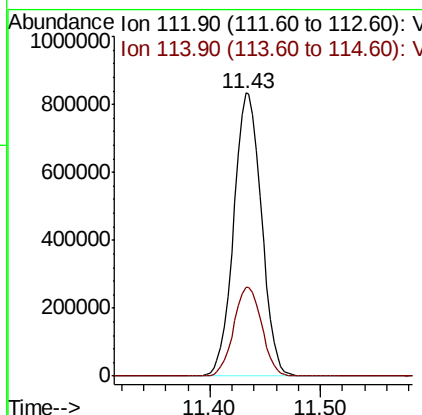
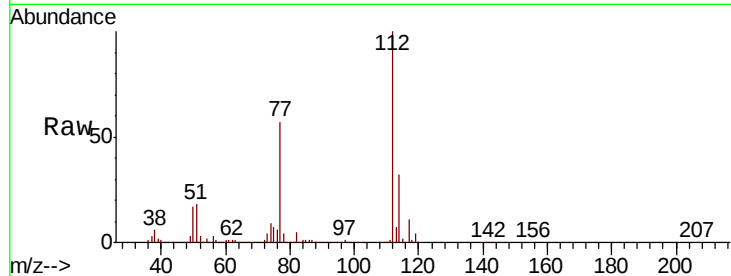
#65
Chlorobenzene
Concen: 49.606 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion:112 Resp: 1449653
Ion Ratio Lower Upper
112 100
114 31.6 25.5 38.3

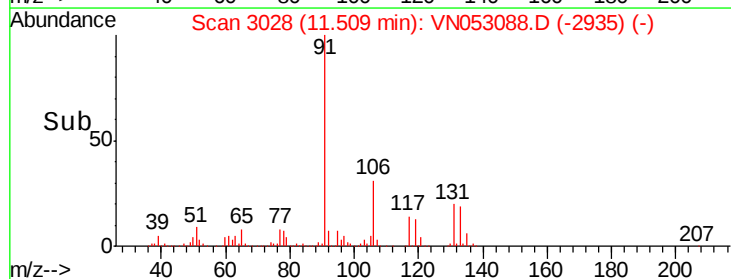
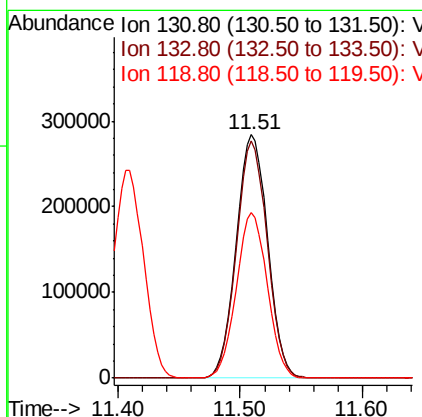
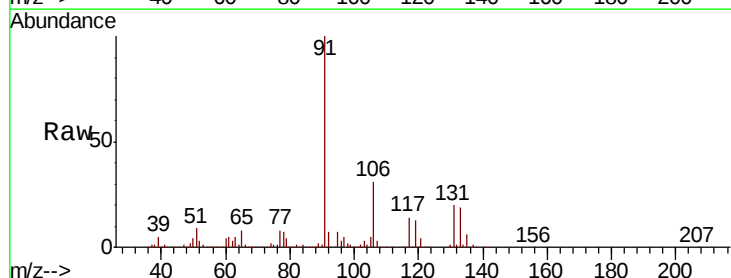
Manual Integrations
APPROVED

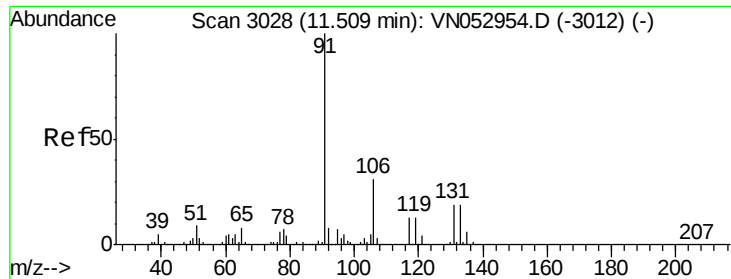
MMDadoda
12/21/2018 11:31:52 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.658 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion:131 Resp: 504635
Ion Ratio Lower Upper
131 100
133 96.0 47.6 142.9
119 67.1 33.3 99.8





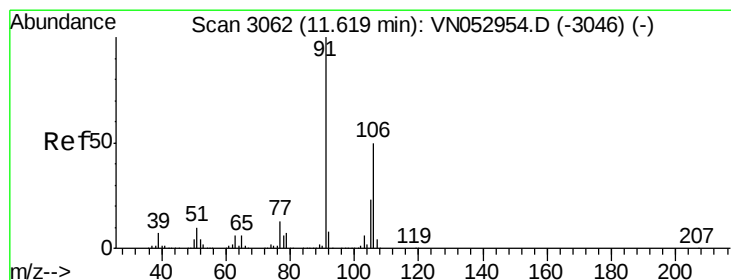
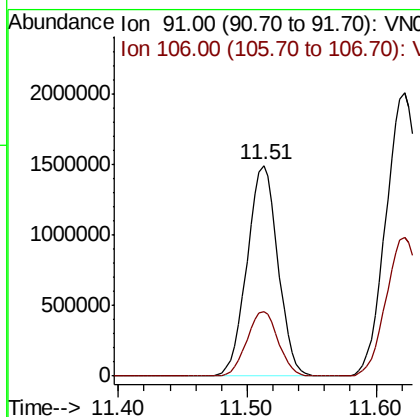
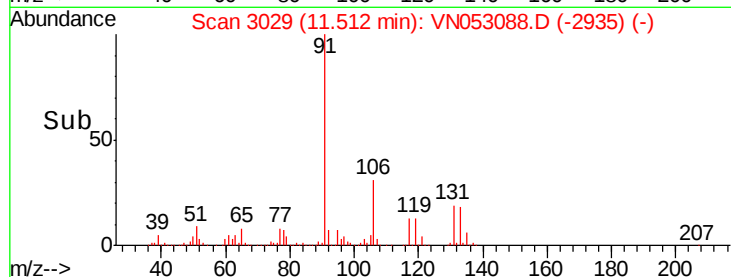
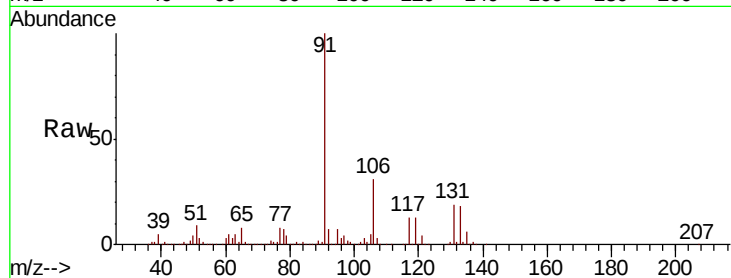
#67
Ethyl Benzene
Concen: 49.644 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion: 91 Resp: 2494885
Ion Ratio Lower Upper
91 100
106 30.9 24.9 37.3

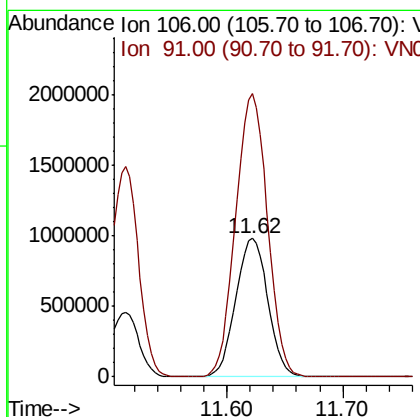
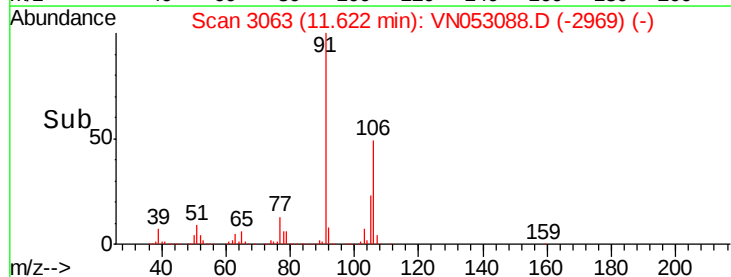
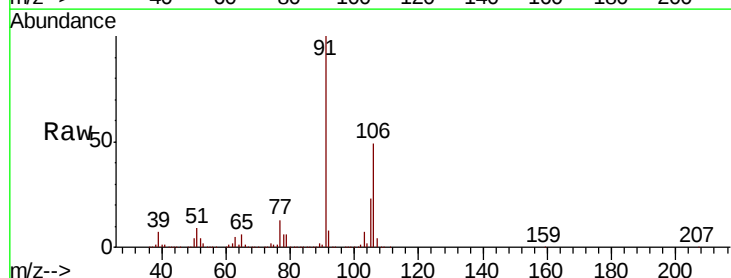
Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#68
m/p-Xylenes
Concen: 98.835 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion: 106 Resp: 1888267
Ion Ratio Lower Upper
106 100
91 203.3 162.2 243.4





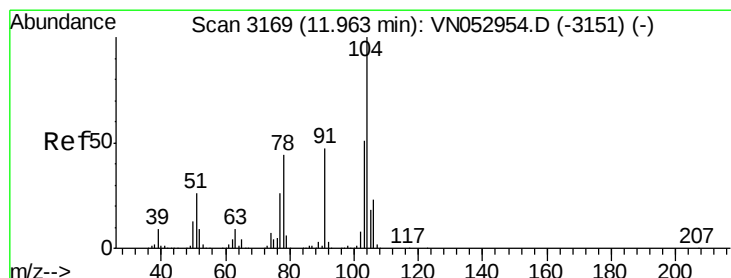
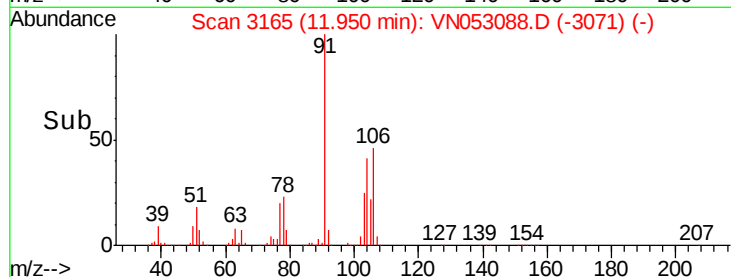
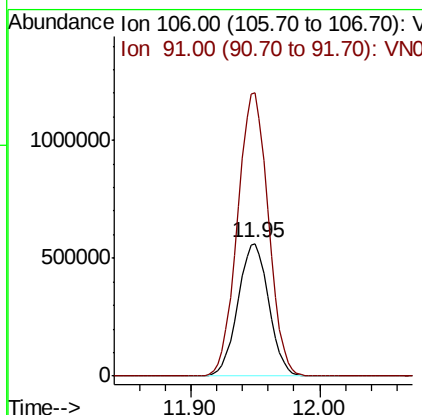
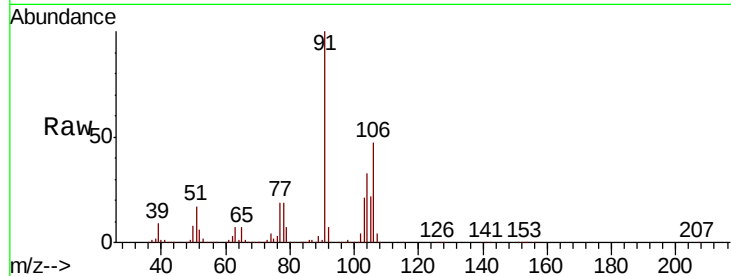
#69
o-Xylene
Concen: 51.030 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Lower	Upper
106	100		
91	213.8	106.6	319.8

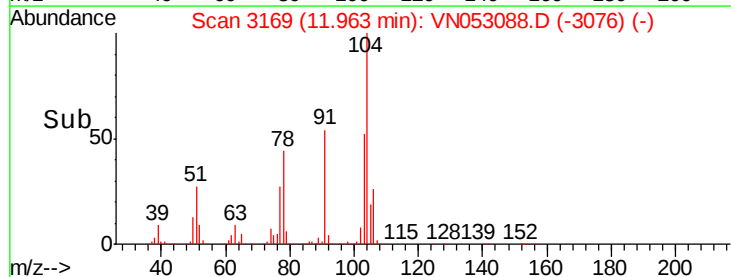
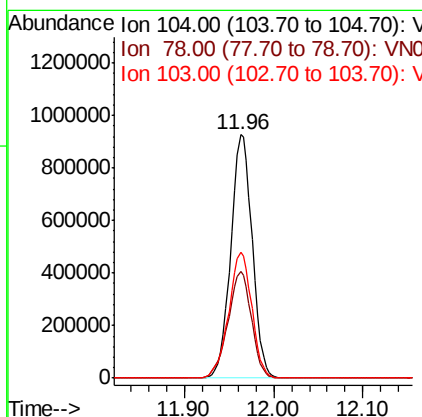
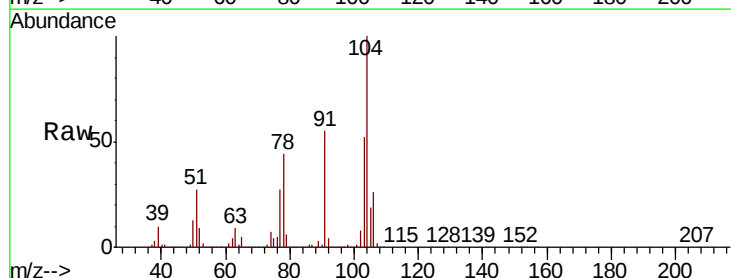
Manual Integrations
APPROVED

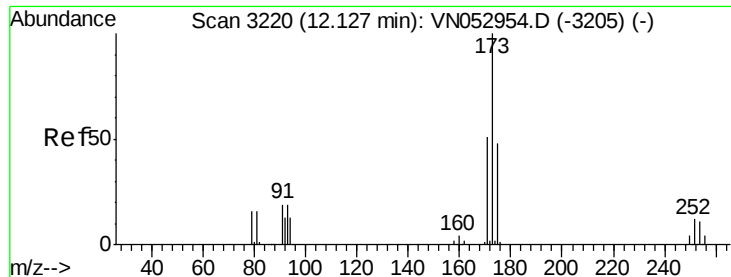
MMDadoda
12/21/2018 11:31:52 AM



#70
Styrene
Concen: 51.514 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.8	38.9	58.3
103	55.7	44.3	66.5





#71

Bromoform

Concen: 48.830 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion:173 Resp: 358476

Ion Ratio Lower Upper

173 100

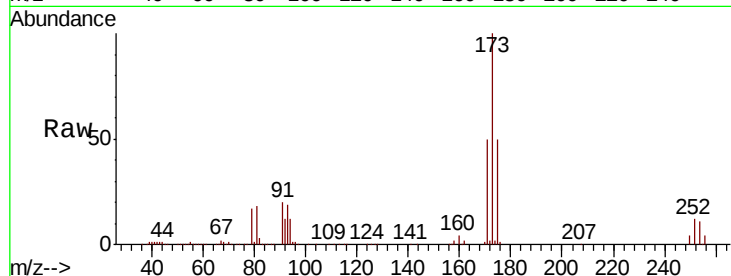
175 49.1 24.3 72.9

254 0.2 0.1 0.1#

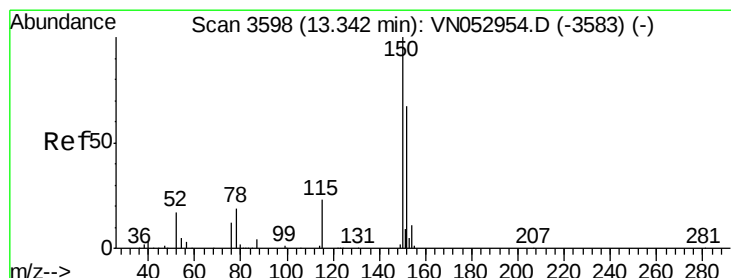
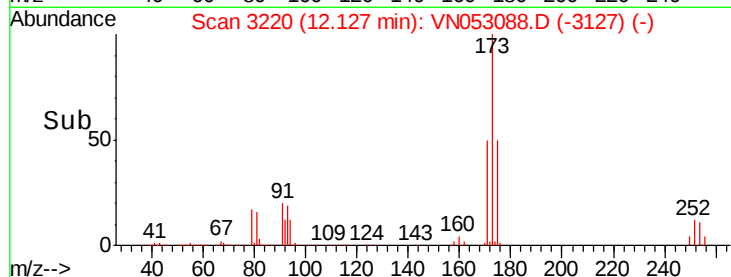
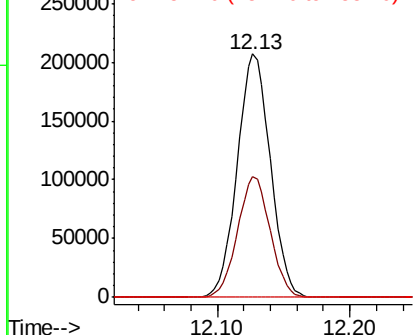
Manual Integrations
APPROVED

MMDadoda

12/21/2018 11:31:52 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: VN053088.D

Acq: 21 Dec 2018 6:09

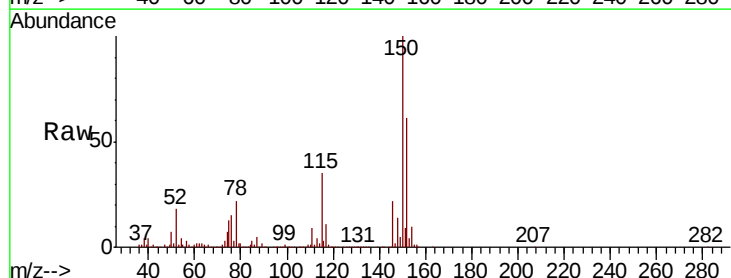
Tgt Ion:152 Resp: 632578

Ion Ratio Lower Upper

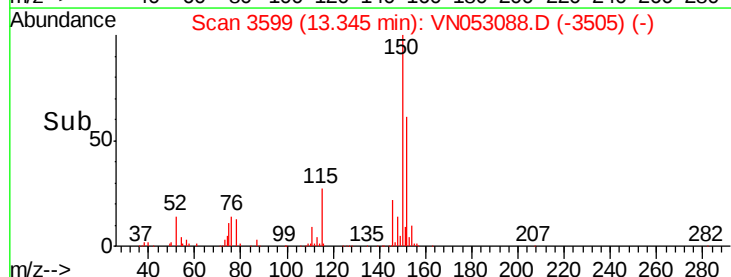
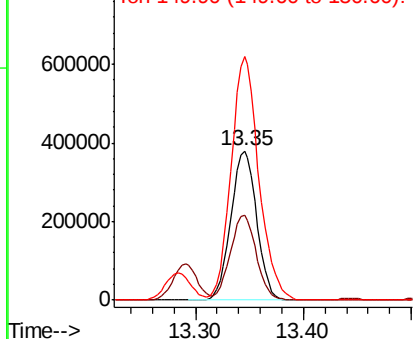
152 100

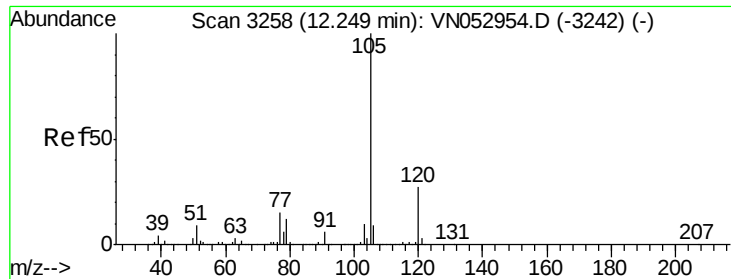
115 57.3 28.3 85.0

150 175.2 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: 54.662 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion: 105 Resp: 2705453

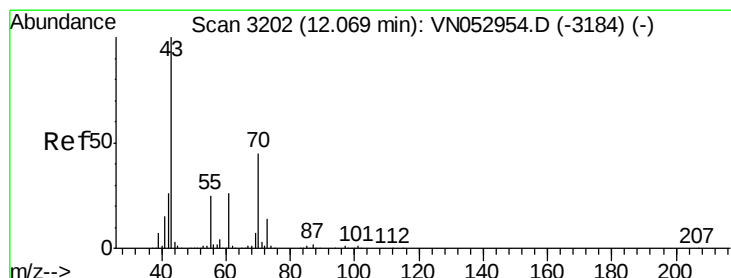
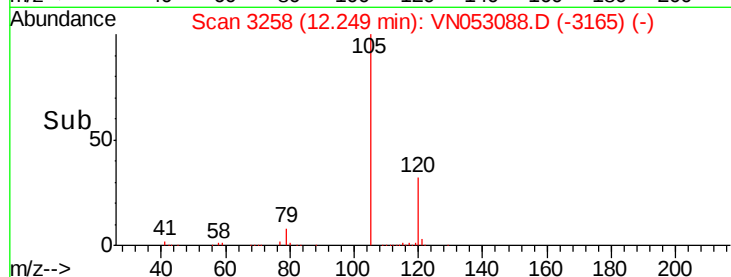
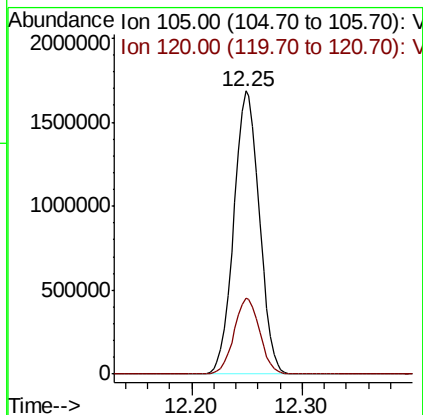
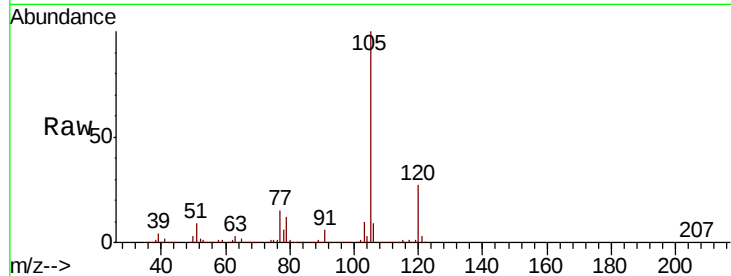
Ion Ratio Lower Upper

105 100

120 26.7 13.3 39.9

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#74

N-ethyl acetate

Concen: 59.456 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Tgt Ion: 43 Resp: 817003

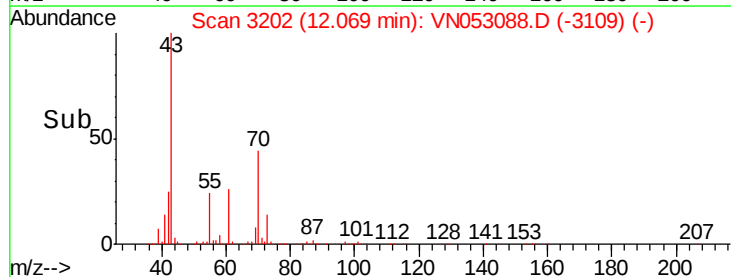
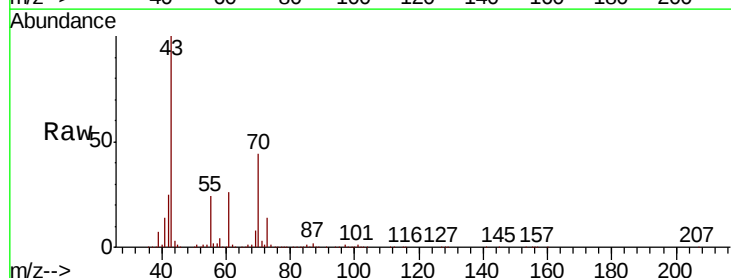
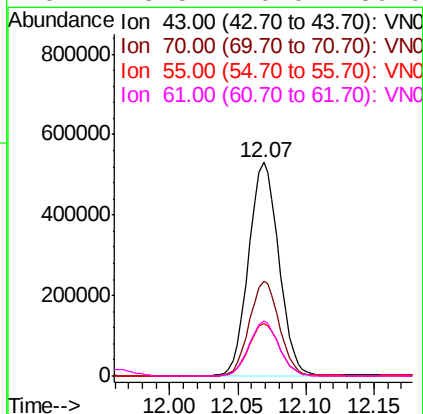
Ion Ratio Lower Upper

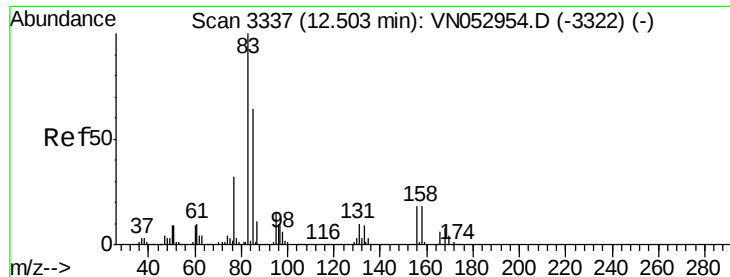
43 100

70 43.9 34.2 51.4

55 25.0 20.3 30.5

61 25.5 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 56.266 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

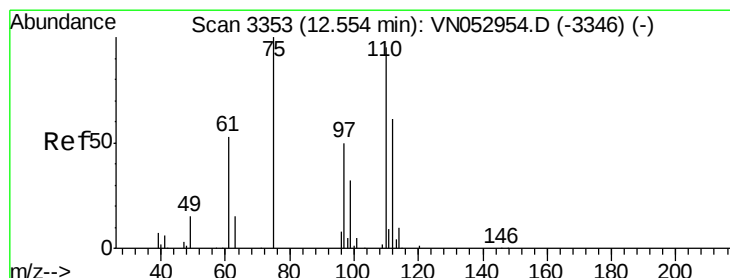
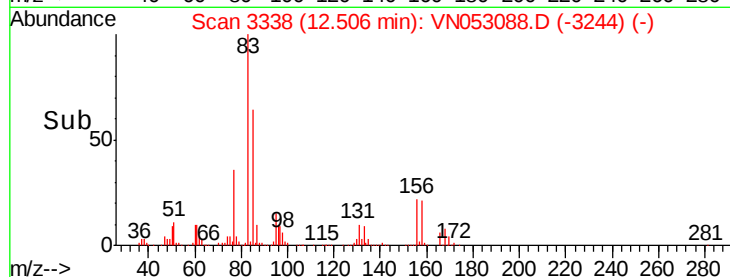
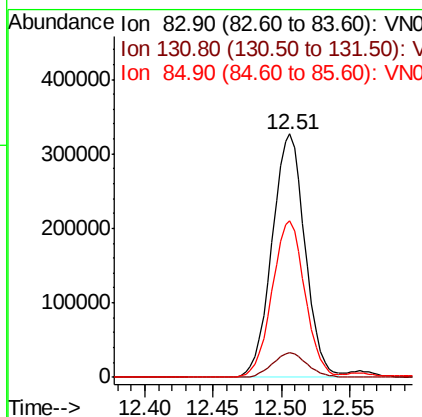
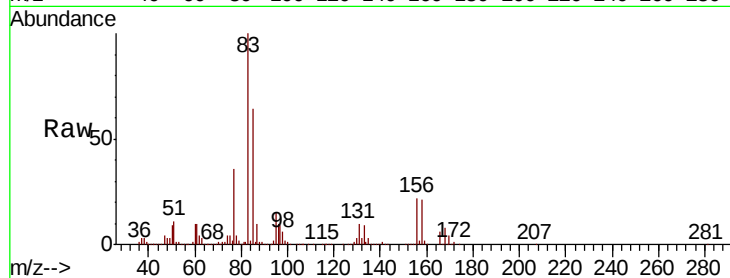
ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion:	83	Resp:	546339
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.2	15.6
85	64.1	32.4	97.0

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#76

1,2,3-Trichloropropane

Concen: 44.712 ug/l m

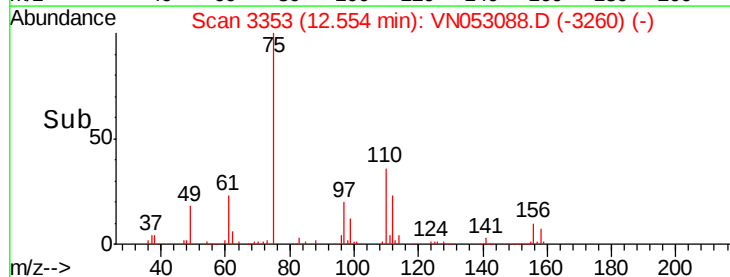
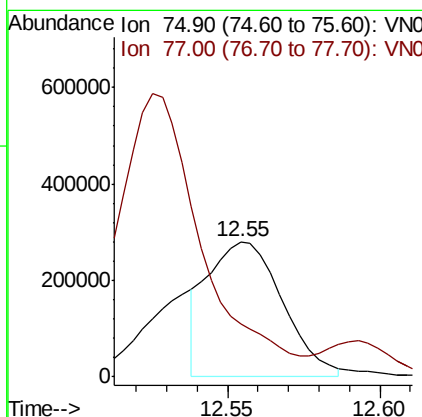
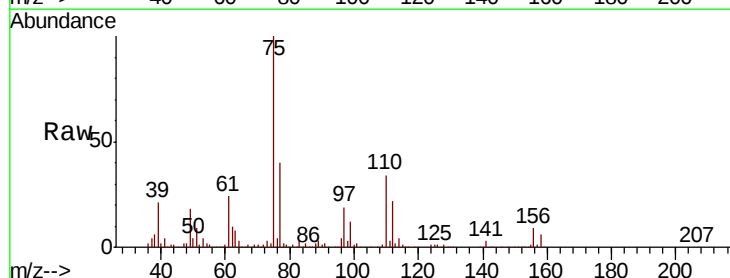
RT: 12.55 min Scan# 3353

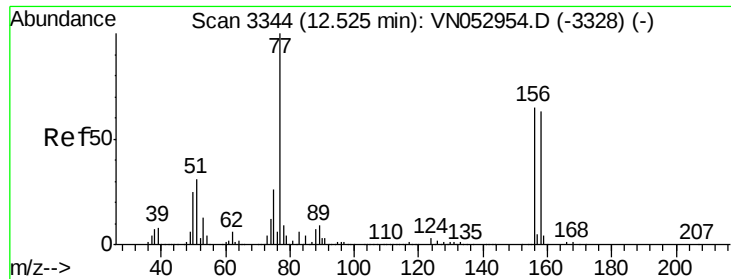
Delta R.T. -0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Tgt Ion:	75	Resp:	476129
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 53.480 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

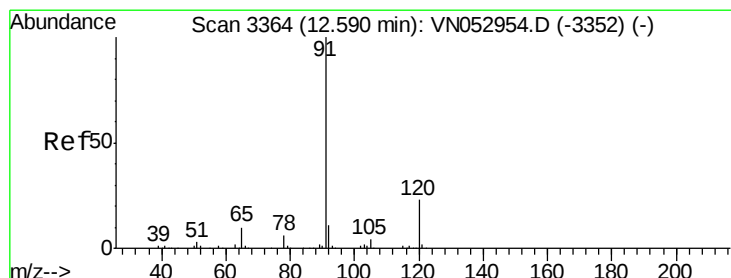
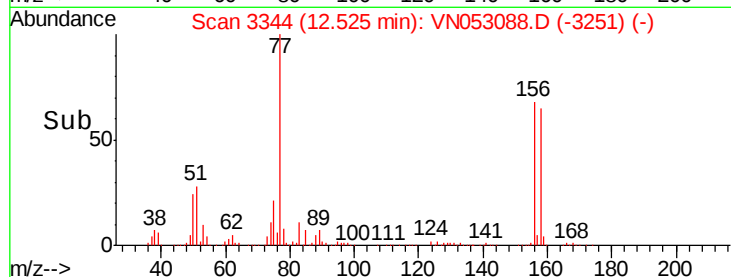
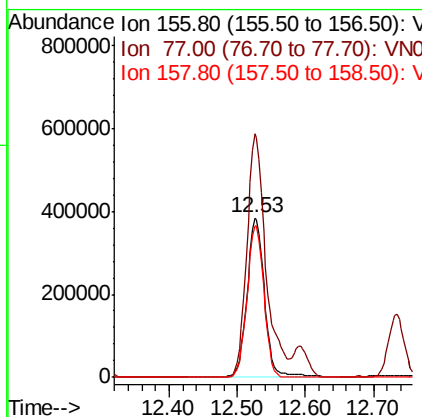
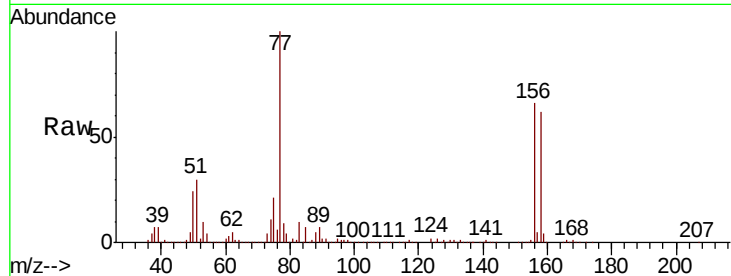
ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		688054		
77	166.1	91.3	273.8		
158	90.6	49.0	147.2		

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#78

n-propylbenzene

Concen: 55.382 ug/l

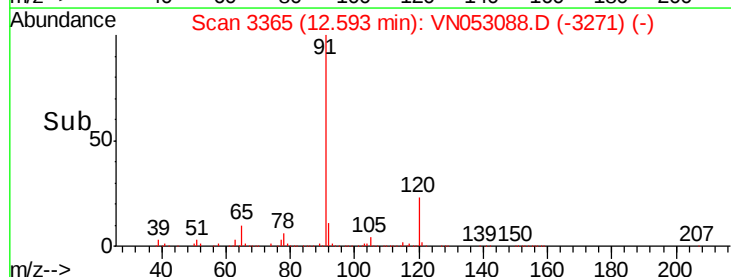
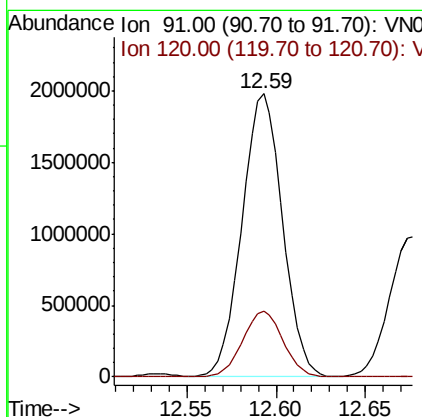
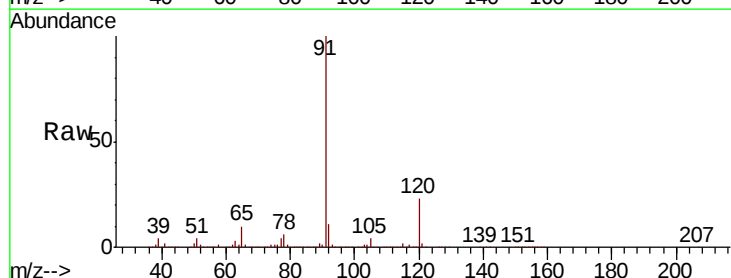
RT: 12.59 min Scan# 3365

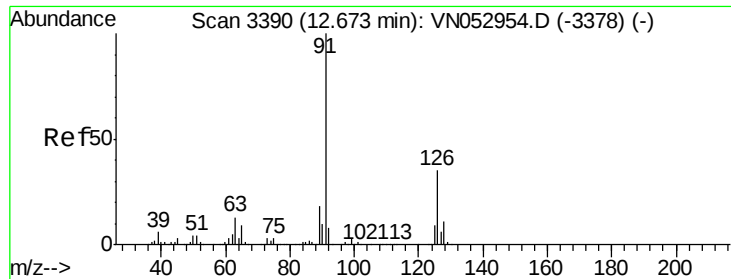
Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		3121794		
120	23.3	11.5	34.5		





#79

2-Chlorotoluene

Concen: 46.732 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion: 91 Resp: 1632829

Ion Ratio Lower Upper

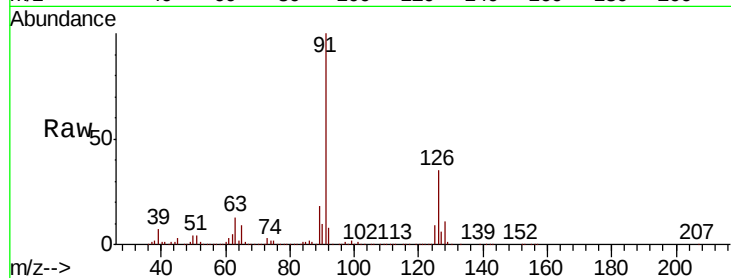
91 100

126 35.2 17.4 52.3

Manual Integrations
APPROVED

MMDadoda

12/21/2018 11:31:52 AM



Abundance Ion 91.00 (90.70 to 91.70): VN052954.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052954.D (-3378) (-)

1500000

1000000

500000

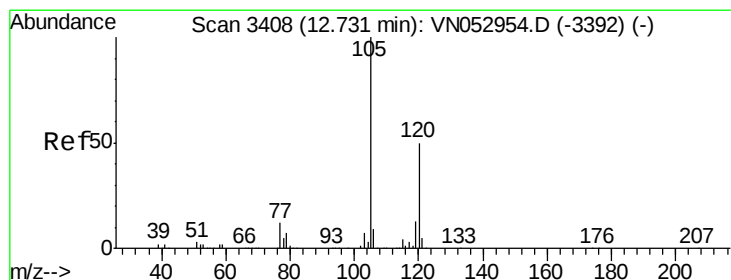
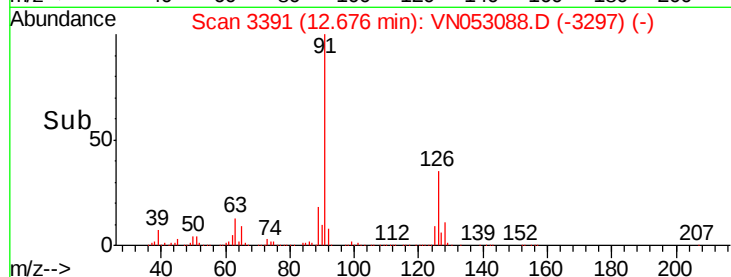
0

12.68

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 49.043 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053088.D

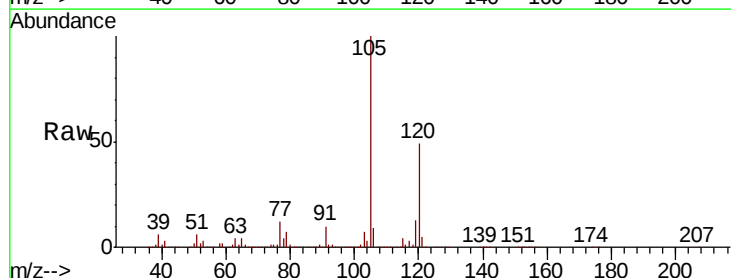
Acq: 21 Dec 2018 6:09

Tgt Ion:105 Resp: 1978481

Ion Ratio Lower Upper

105 100

120 49.0 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052954.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN052954.D (-3392) (-)

1000000

500000

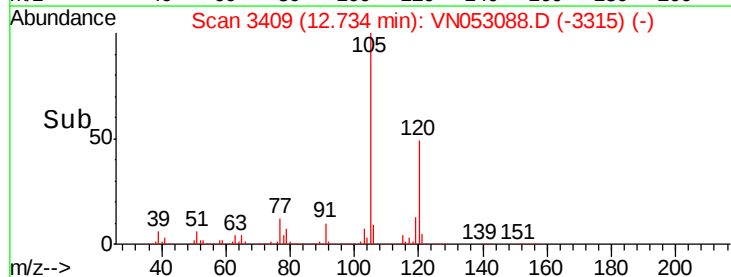
0

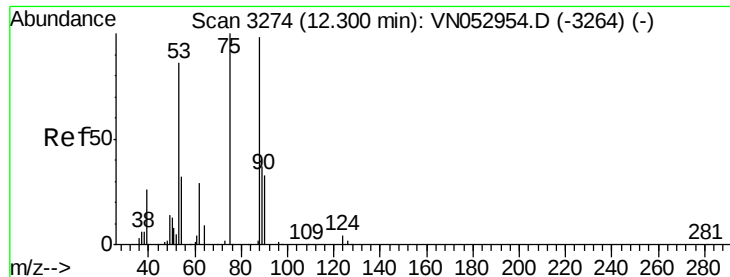
12.73

12.70

12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 43.096 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN053088.D

Acq: 21 Dec 2018 6:09

Instrument :

MSVOA_N

ClientSampleId :

T11-MW-13-8.0-122018MS

Tot Ion: 75 Resp: 142385

Ion Ratio Lower Upper

75 100

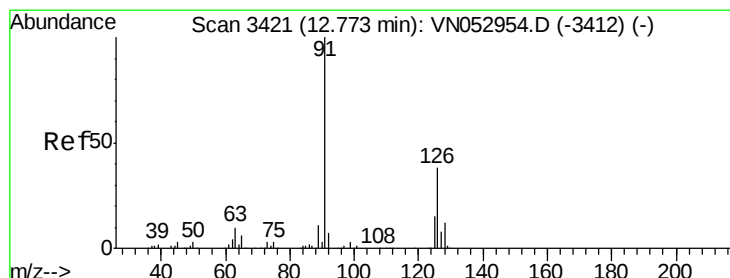
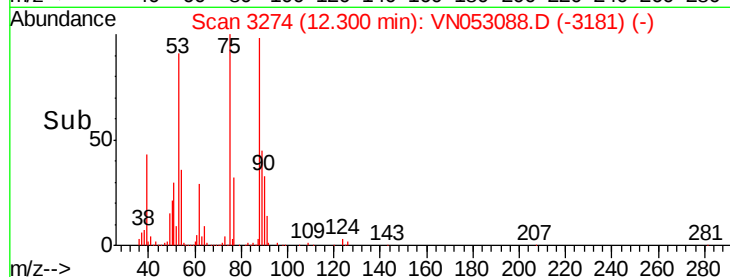
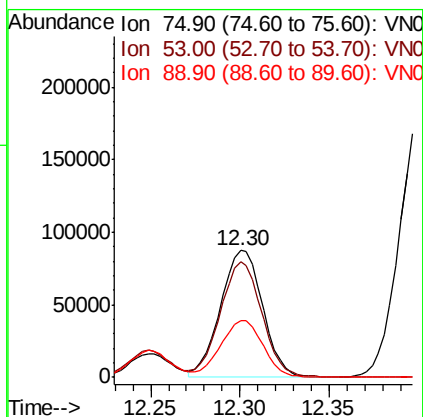
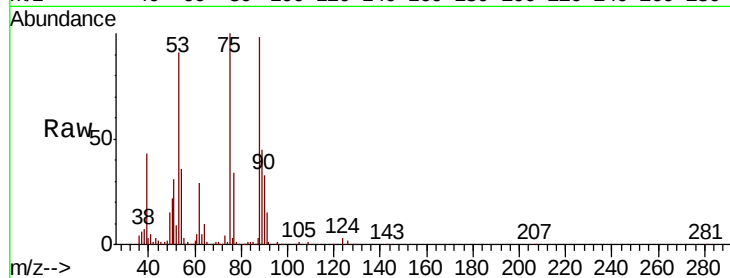
53 90.5 74.7 112.1

89 45.2 36.1 54.1

Manual Integrations
APPROVED

MMDadoda

12/21/2018 11:31:52 AM



#82

4-Chlorotoluene

Concen: 49.360 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN053088.D

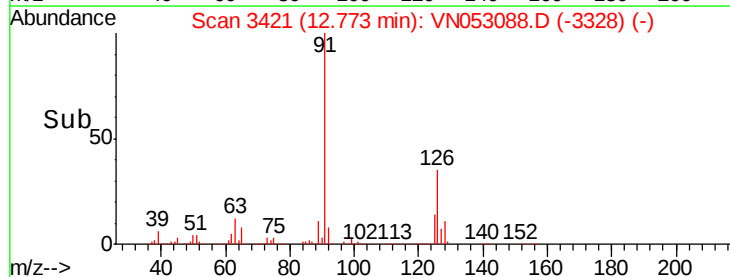
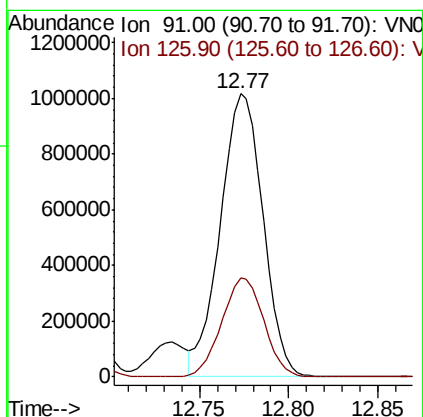
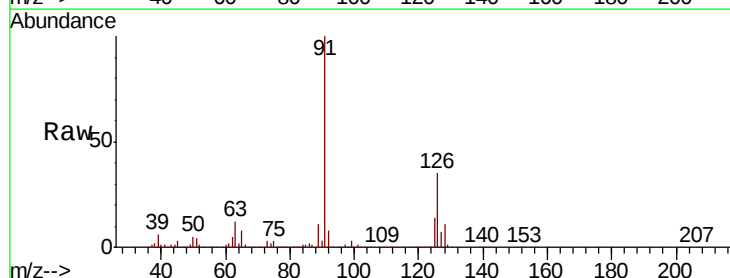
Acq: 21 Dec 2018 6:09

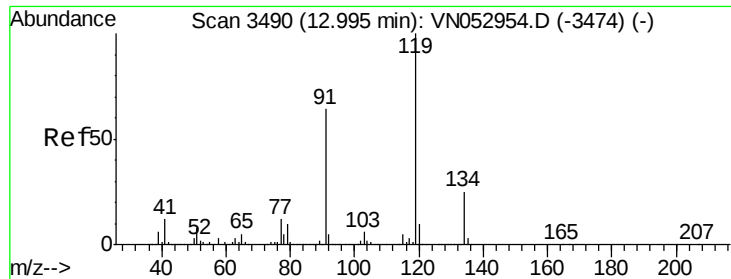
Tgt Ion: 91 Resp: 1688256

Ion Ratio Lower Upper

91 100

126 34.5 17.3 51.7





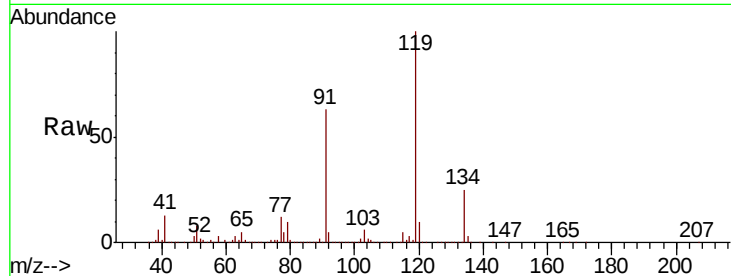
#83
tert-Butylbenzene
Concen: 48.881 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

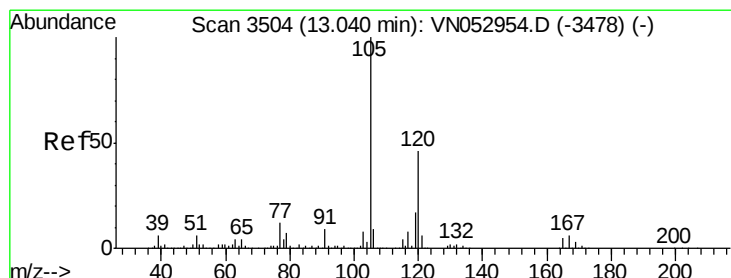
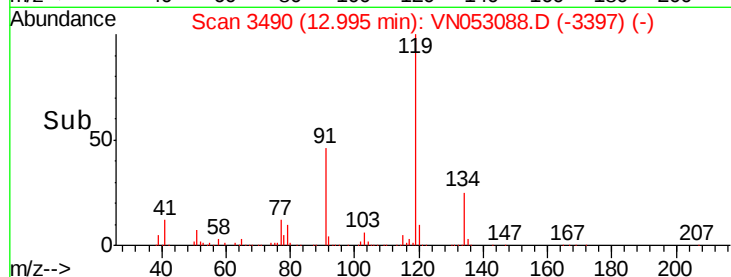
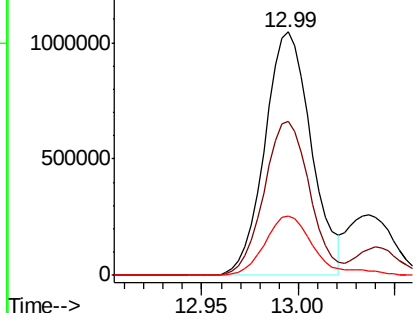
Tot Ion	Ratio	Lower	Upper
119	100		
91	62.6	31.9	95.5
134	26.0	12.8	38.4

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM

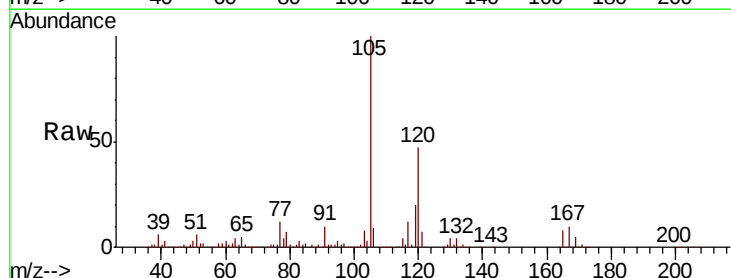


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

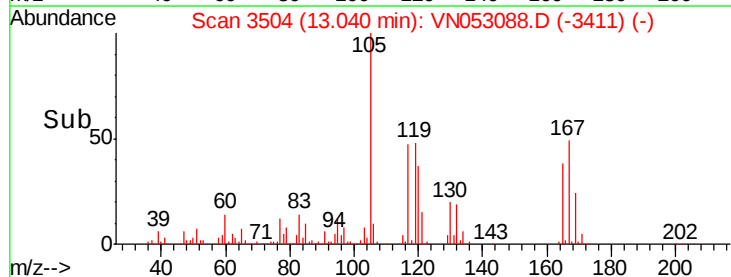
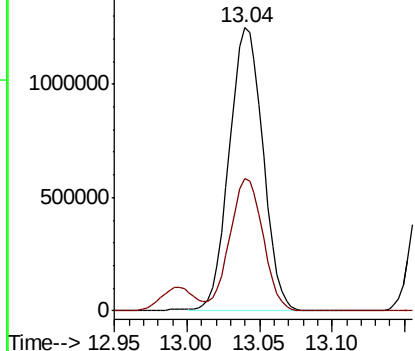


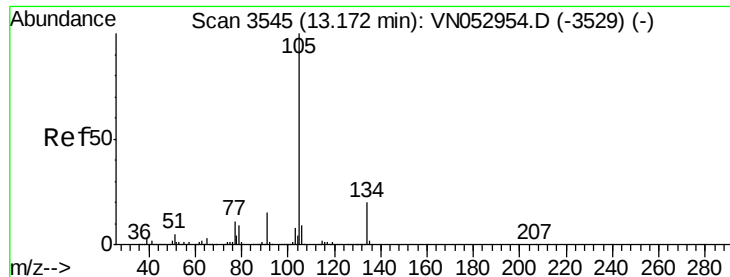
#84
1,2,4-Trimethylbenzene
Concen: 49.679 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.5	22.9	68.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





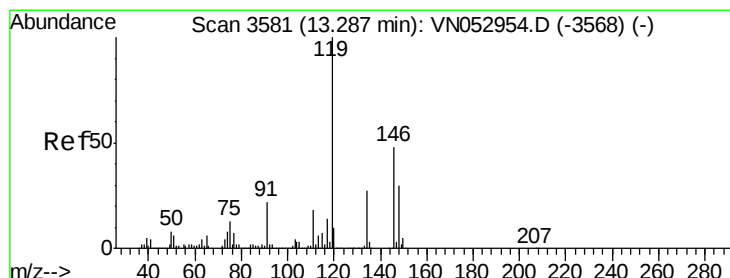
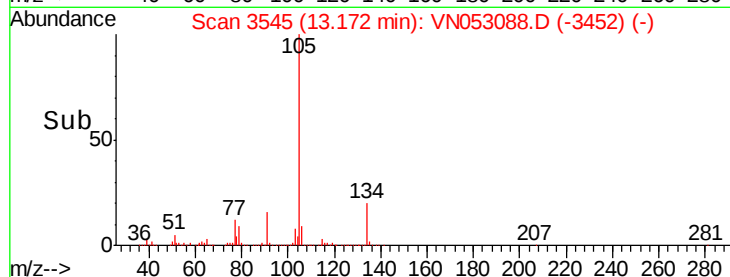
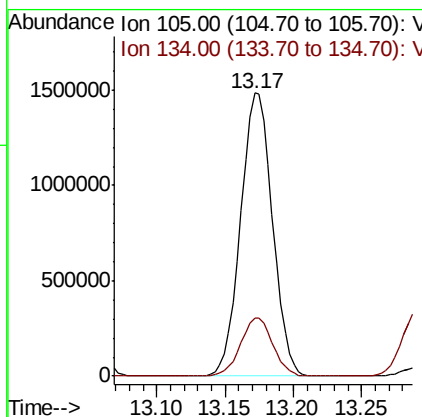
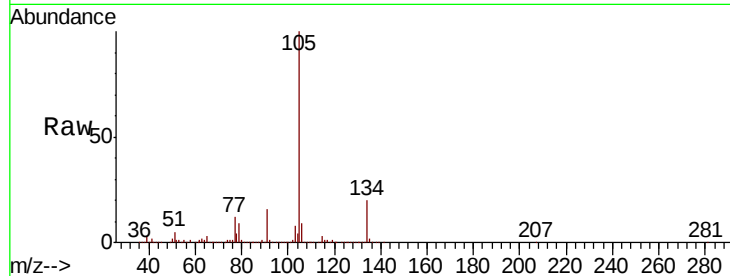
#85
 sec-Butylbenzene
 Concen: 49.733 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN053088.D
 Acq: 21 Dec 2018 6:09

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-13-8.0-122018MS

Tot Ion:105 Resp: 2400061
 Ion Ratio Lower Upper
 105 100
 134 20.7 10.1 30.3

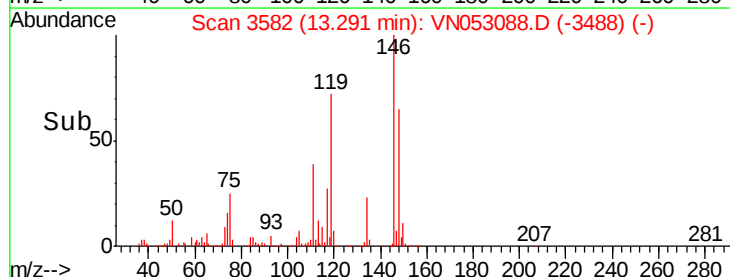
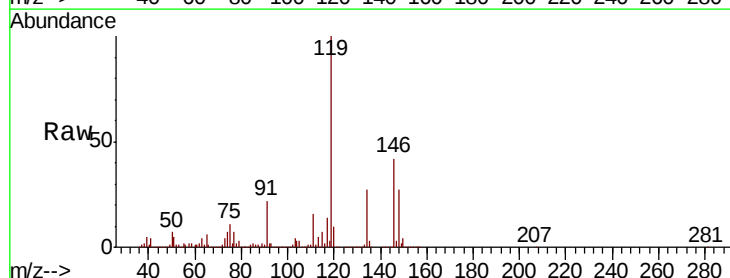
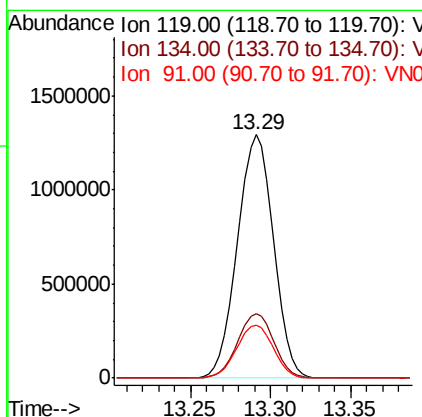
Manual Integrations
 APPROVED

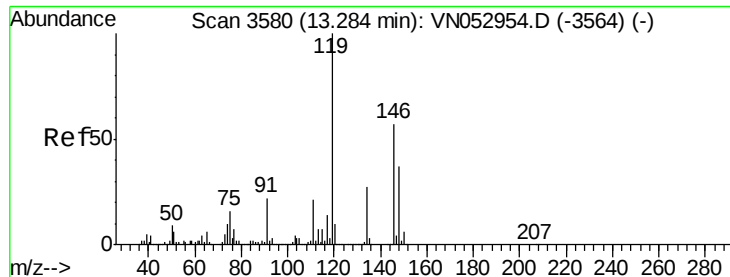
MMDadoda
 12/21/2018 11:31:52 AM



#86
 p-Isopropyltoluene
 Concen: 47.555 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN053088.D
 Acq: 21 Dec 2018 6:09

Tgt Ion:119 Resp: 1983033
 Ion Ratio Lower Upper
 119 100
 134 26.5 13.4 40.2
 91 21.9 11.1 33.3





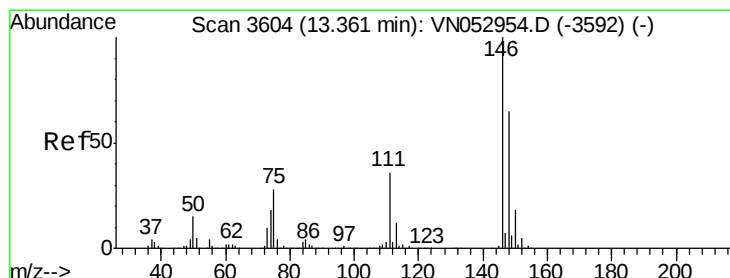
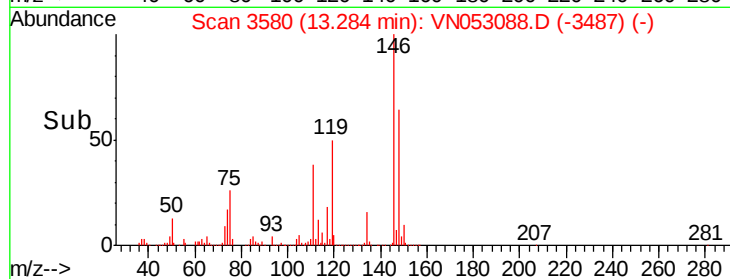
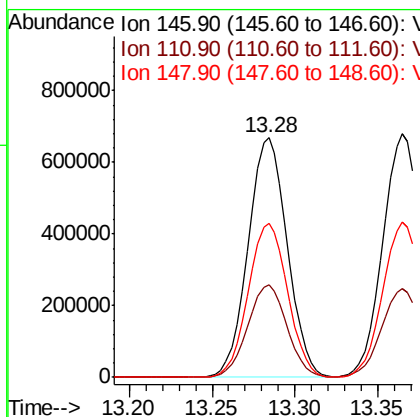
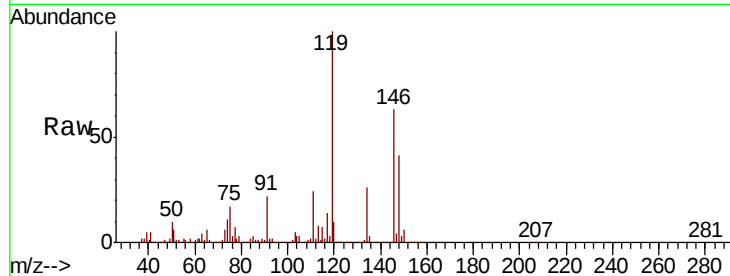
#87
 1,3-Dichlorobenzene
 Concen: 48.282 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN053088.D
 Acq: 21 Dec 2018 6:09

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.1	57.1
148	64.7	32.0	96.0

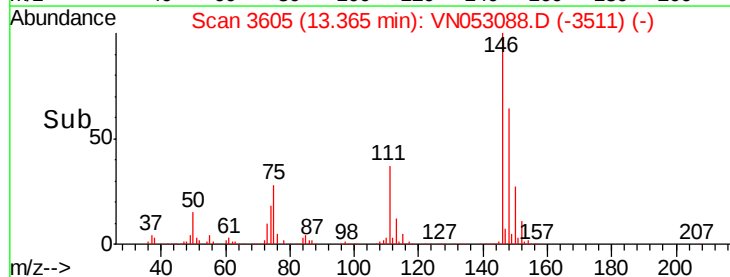
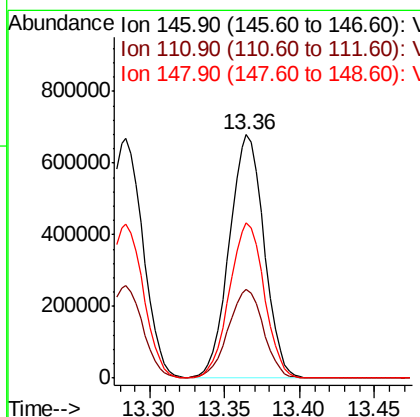
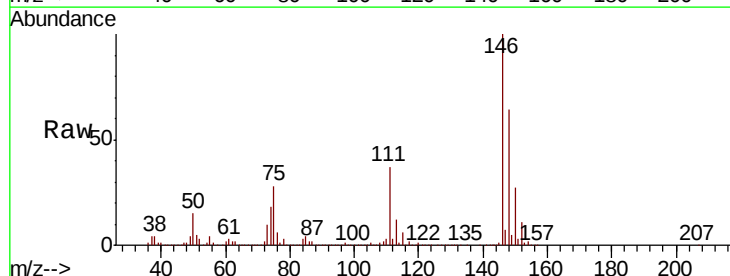
Manual Integrations
 APPROVED

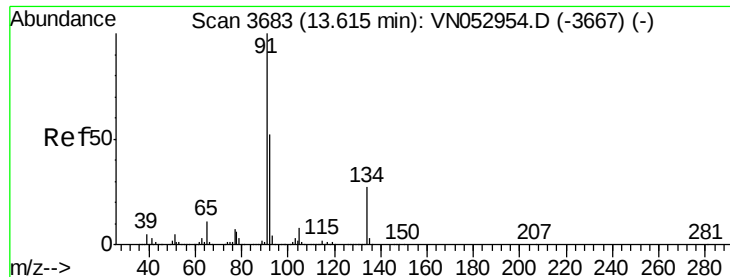
MMDadoda
 12/21/2018 11:31:52 AM



#88
 1,4-Dichlorobenzene
 Concen: 47.524 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053088.D
 Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.6	55.8
148	64.2	32.1	96.5





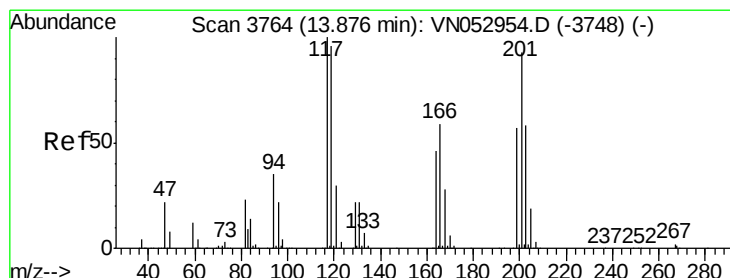
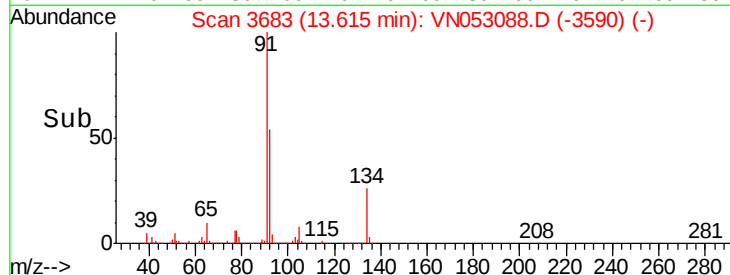
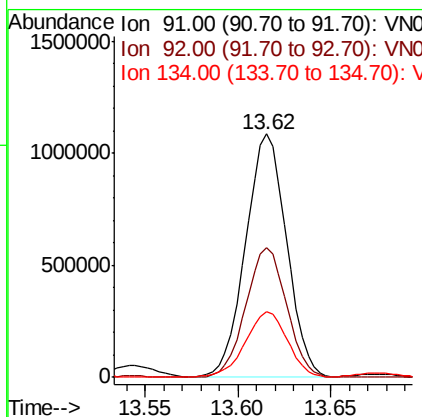
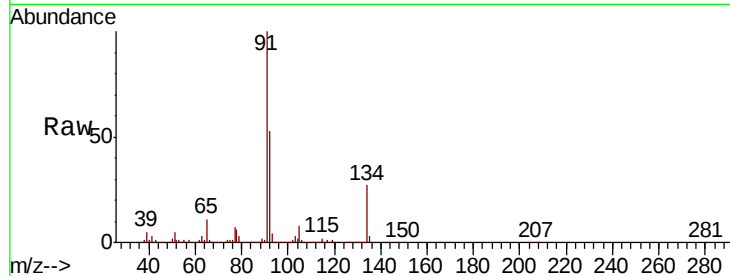
#89
n-Butylbenzene
Concen: 46.069 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.3	78.9
134	28.0	13.3	39.8

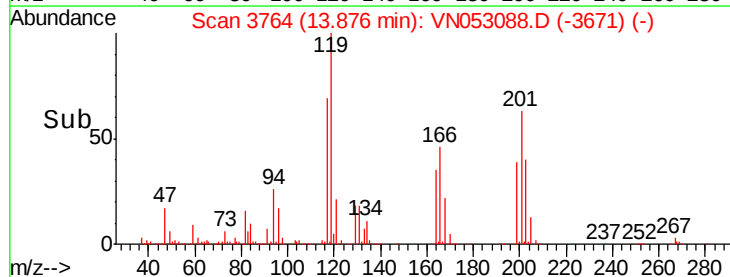
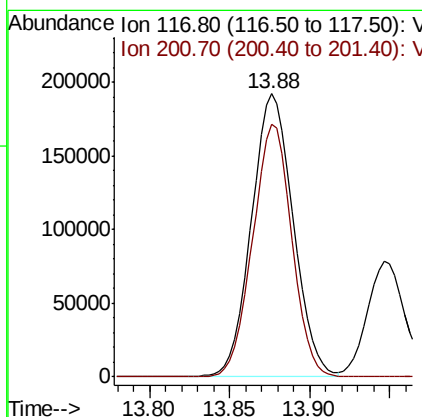
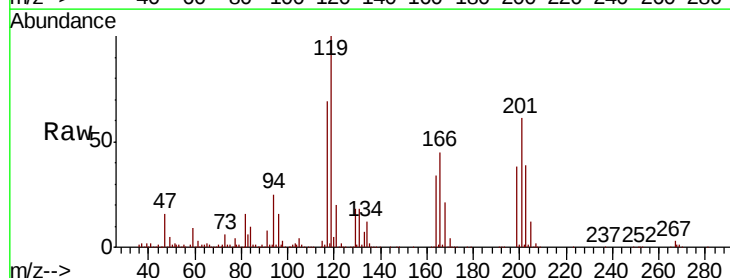
Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM



#90
Hexachloroethane
Concen: 53.640 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.8	45.7	137.1





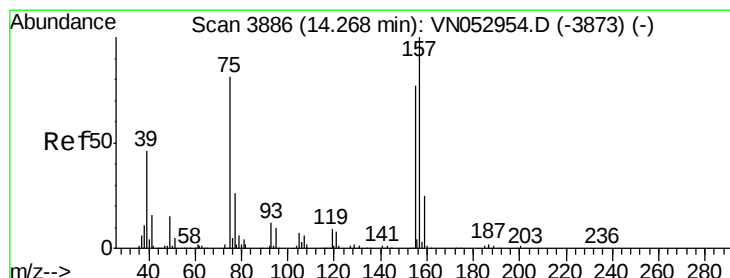
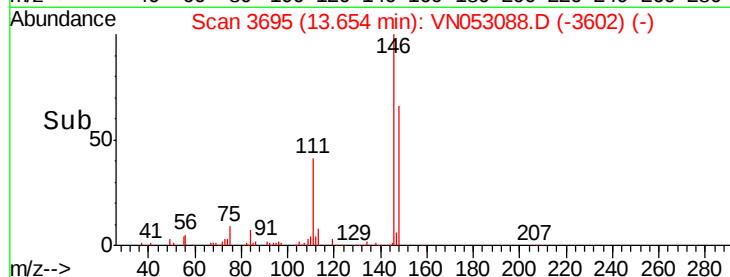
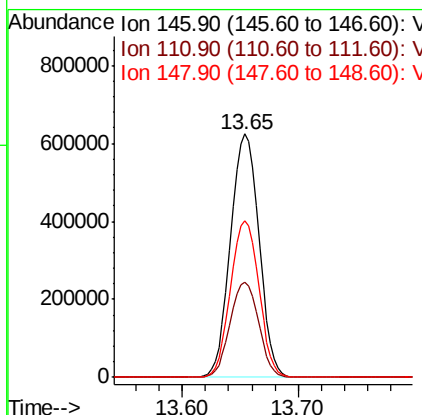
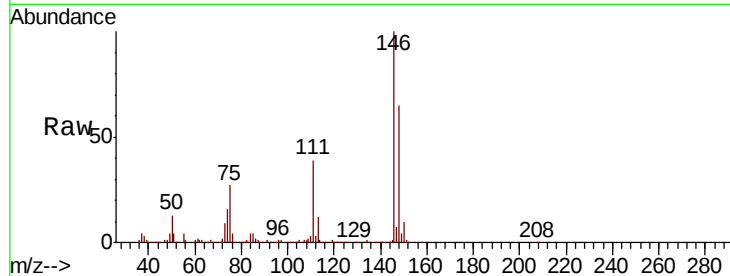
#91
 1,2-Dichlorobenzene
 Concen: 49.380 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN053088.D
 Acq: 21 Dec 2018 6:09

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.7	59.0
148	64.3	32.0	96.0

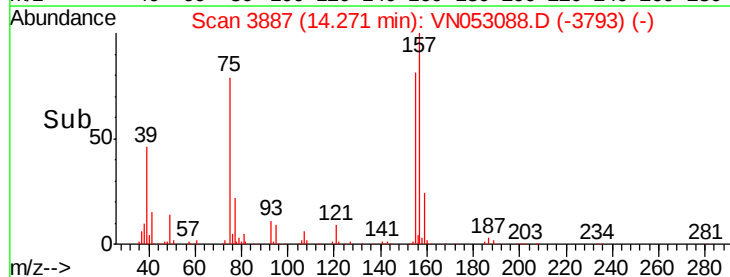
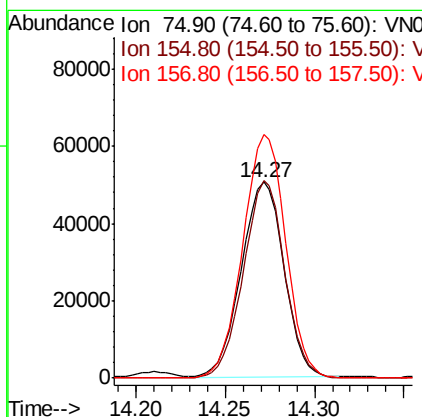
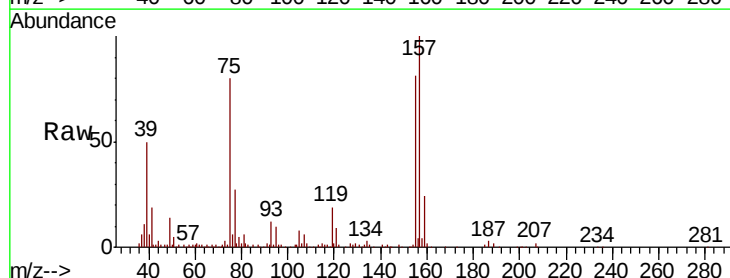
Manual Integrations
 APPROVED

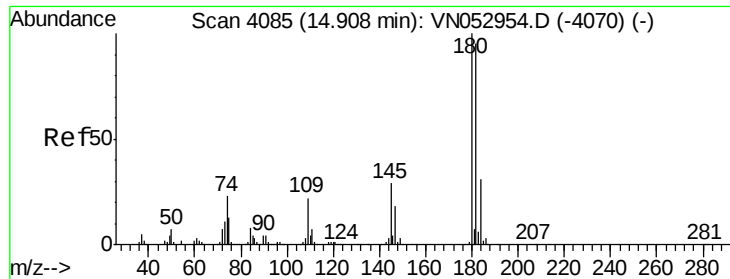
MMDadoda
 12/21/2018 11:31:52 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 50.459 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053088.D
 Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.7	48.2	144.6
157	125.0	61.2	183.5





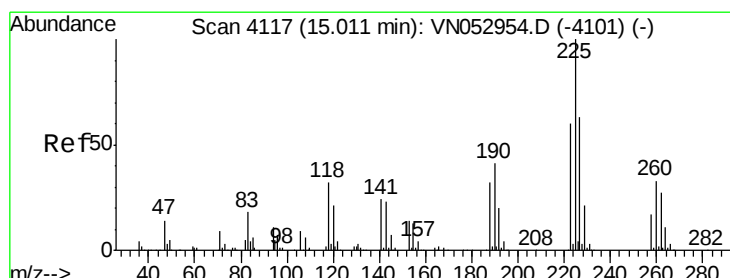
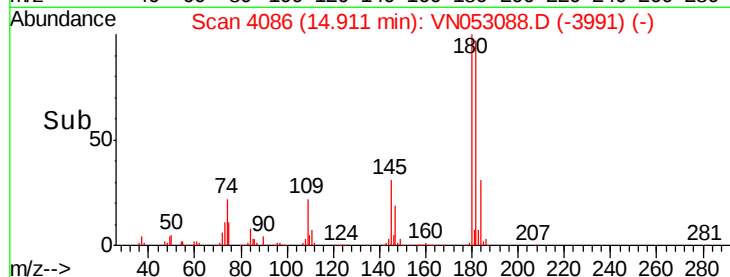
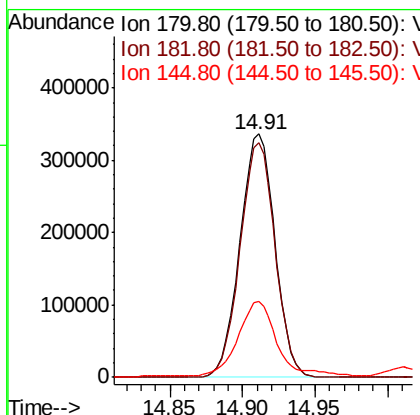
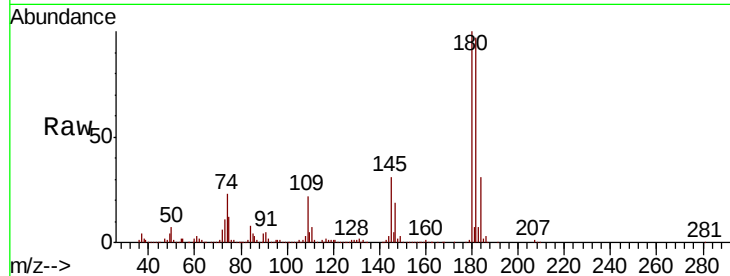
#93
 1,2,4-Trichlorobenzene
 Concen: 49.665 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053088.D
 Acq: 21 Dec 2018 6:09

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Resp	Lower	Upper
180	100	563843		
182	96.2	47.8	143.3	
145	36.0	14.2	42.6	

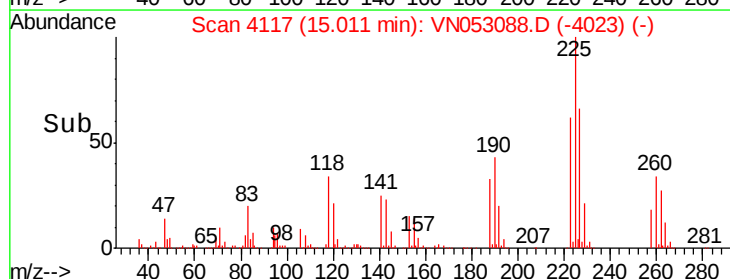
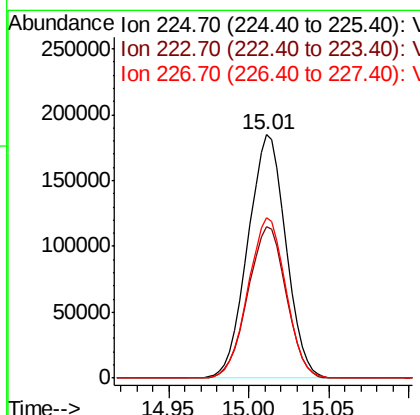
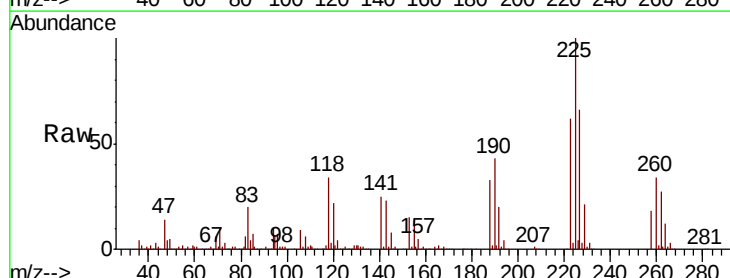
Manual Integrations
 APPROVED

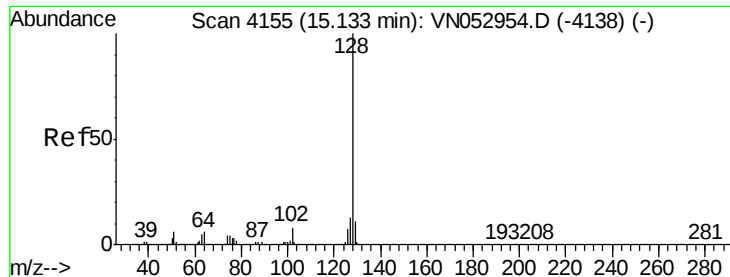
MMDadoda
 12/21/2018 11:31:52 AM



#94
 Hexachlorobutadiene
 Concen: 51.198 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053088.D
 Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	300579		
223	62.6	31.5	94.5	
227	65.5	31.9	95.7	





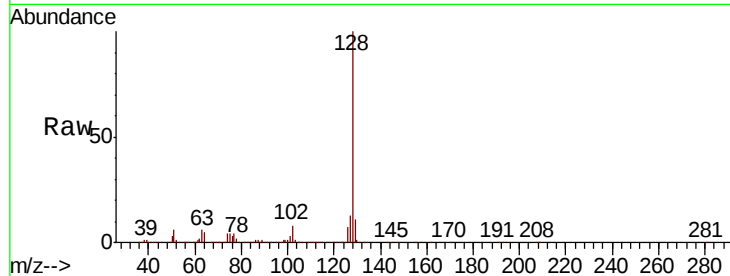
#95
Naphthalene
Concen: 60.485 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Instrument :
MSVOA_N
ClientSampleId :
T11-MW-13-8.0-122018MS

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.4
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/21/2018 11:31:52 AM

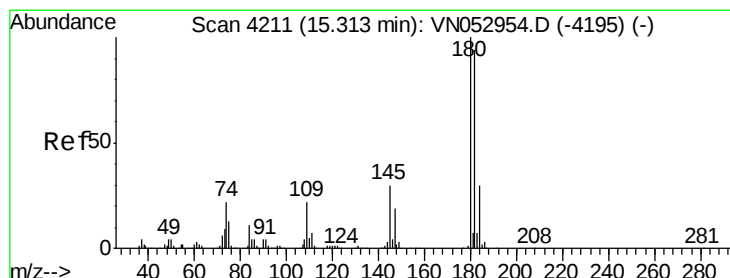
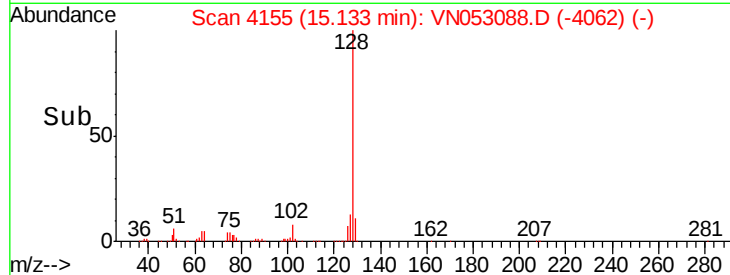
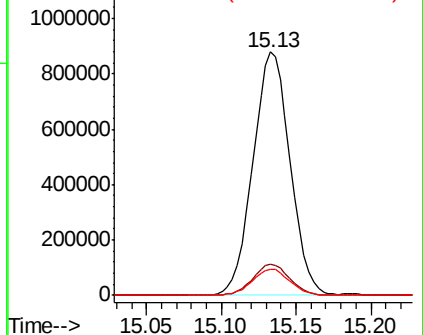


Abundance

Ion 128.00 (127.70 to 128.70): V

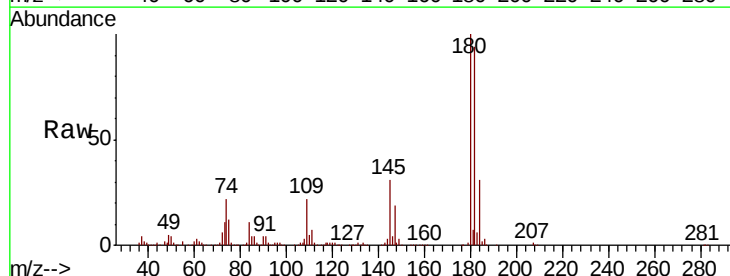
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 50.024 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN053088.D
Acq: 21 Dec 2018 6:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.9	143.7
145	34.0	15.0	45.0



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

