

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN122718\
 Data File : VN053205.D
 Acq On : 27 Dec 2018 11:56
 Operator : MD\SY
 Sample : VN1227WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Manual Integrations
 APPROVED

MMDadoda
 12/28/2018 10:14:24 AM

Quant Time: Dec 28 01:17:33 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	833835	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1283592	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1140420	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	524594	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	467289	55.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.44%	
35) Dibromofluoromethane	7.59	113	389320	66.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	132.80%	
50) Toluene-d8	10.09	98	1675831	53.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.48%	
62) 4-Bromofluorobenzene	12.40	95	579758	52.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.94%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.85	85	154437	18.300	ug/l 100
3) Chloromethane	2.06	50	201021	19.657	ug/l 100
4) Vinyl Chloride	2.19	62	205739	19.865	ug/l 99
5) Bromomethane	2.57	94	132703	18.494	ug/l 100
6) Chloroethane	2.71	64	122971	20.048	ug/l 97
7) Trichlorofluoromethane	3.02	101	265395	20.570	ug/l 99
8) Diethyl Ether	3.41	74	104455	21.460	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	166830	20.280	ug/l 99
10) Methyl Iodide	3.96	142	221666	19.188	ug/l 100
11) Tert butyl alcohol	4.78	59	54862	106.258	ug/l 99
12) 1,1-Dichloroethene	3.74	96	160894	20.244	ug/l 98
13) Acrolein	3.61	56	47372	101.188	ug/l 95
14) Allyl chloride	4.33	41	272639	22.147	ug/l 95
15) Acrylonitrile	4.99	53	306835	106.973	ug/l 99
16) Acetone	3.82	43	189569	114.260	ug/l 99
17) Carbon Disulfide	4.06	76	428774	16.543	ug/l 100
18) Methyl Acetate	4.32	43	174122	23.656	ug/l 99
19) Methyl tert-butyl Ether	5.05	73	464770	21.853	ug/l 100
20) Methylene Chloride	4.55	84	196568	21.720	ug/l 99
21) trans-1,2-Dichloroethene	5.05	96	171642	20.101	ug/l 98
22) Diisopropyl ether	5.95	45	592273	22.540	ug/l 100
23) Vinyl Acetate	5.90	43	1696950	112.306	ug/l 98
24) 1,1-Dichloroethane	5.85	63	340349	21.797	ug/l 99
25) 2-Butanone	6.83	43	326078	117.110	ug/l 100
26) 2,2-Dichloropropane	6.82	77	240718	20.195	ug/l 99
27) cis-1,2-Dichloroethene	6.83	96	205151	21.222	ug/l 100
28) Bromochloromethane	7.20	49	146186	21.606	ug/l 97
29) Tetrahydrofuran	7.21	42	229682	110.447	ug/l 100
30) Chloroform	7.37	83	329003	21.449	ug/l 99
31) Cyclohexane	7.65	56	302734	20.042	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	272121	20.825	ug/l 99
36) 1,1-Dichloropropene	7.80	75	246454	20.004	ug/l 100
37) Ethyl Acetate	6.93	43	150651	21.904	ug/l 99
38) Carbon Tetrachloride	7.78	117	234621	20.776	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	280077	18.713	ug/l	98
40) Benzene	8.04	78	774400	21.132	ug/l	99
41) Methacrylonitrile	7.17	41	90313	22.726	ug/l	96
42) 1,2-Dichloroethane	8.13	62	230361	21.279	ug/l	99
43) Isopropyl Acetate	8.16	43	281243	20.515	ug/l	99
44) Trichloroethene	8.83	130	209603	19.775	ug/l	98
45) 1,2-Dichloropropane	9.12	63	207910	21.781	ug/l	99
46) Dibromomethane	9.21	93	117614	21.151	ug/l	99
47) Bromodichloromethane	9.40	83	252677	21.377	ug/l	99
48) Methyl methacrylate	9.20	41	138671	20.778	ug/l	99
49) 1,4-Dioxane	9.20	88	33442	396.124	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	752238	112.939	ug/l	99
52) Toluene	10.16	92	479029	21.089	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	250926	20.189	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	299390	20.985	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	174219	21.985	ug/l	99
56) Ethyl methacrylate	10.43	69	220722	21.044	ug/l	98
57) 1,3-Dichloropropane	10.71	76	295207	21.724	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	618423	107.398	ug/l	98
59) 2-Hexanone	10.75	43	499698	110.886	ug/l	99
60) Dibromochloromethane	10.90	129	190228	20.971	ug/l	100
61) 1,2-Dibromoethane	11.01	107	169664	21.081	ug/l	99
64) Tetrachloroethene	10.63	164	225387	18.245	ug/l	99
65) Chlorobenzene	11.43	112	529328	20.939	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	185751	21.130	ug/l	98
67) Ethyl Benzene	11.51	91	898733	20.673	ug/l	99
68) m/p-Xylenes	11.62	106	682310	41.284	ug/l	100
69) o-Xylene	11.95	106	336381	21.210	ug/l	100
70) Styrene	11.96	104	549485	21.248	ug/l	100
71) Bromoform	12.13	173	126523	19.922	ug/l #	98
73) Isopropylbenzene	12.25	105	883916	21.535	ug/l	99
74) N-amyl acetate	12.07	43	241786	21.218	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	196759	24.435	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	167569m	18.975	ug/l	
77) Bromobenzene	12.53	156	229502	21.510	ug/l	98
78) n-propylbenzene	12.59	91	980914	20.984	ug/l	100
79) 2-Chlorotoluene	12.68	91	586823	20.252	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	697009	20.834	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	54410	19.858	ug/l	99
82) 4-Chlorotoluene	12.77	91	591309	20.847	ug/l	99
83) tert-Butylbenzene	12.99	119	622441	21.037	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	705157	20.967	ug/l	99
85) sec-Butylbenzene	13.17	105	803788	20.084	ug/l	100
86) p-Isopropyltoluene	13.29	119	694497	20.083	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	386461	20.466	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	384083	20.085	ug/l	99
89) n-Butylbenzene	13.62	91	548668	18.442	ug/l	100
90) Hexachloroethane	13.88	117	106707	20.108	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	376640	21.193	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	28809	20.692	ug/l	97

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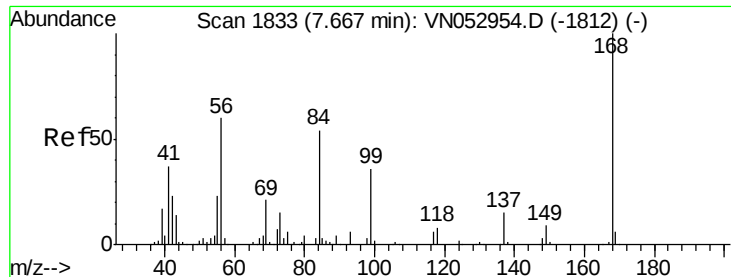
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	172450	18.693	ug/l	100
94) Hexachlorobutadiene	15.01	225	111855	21.295	ug/l	99
95) Naphthalene	15.13	128	373635	18.846	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	154602	18.556	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 168 Resp: 833835

Ion Ratio Lower Upper

168 100

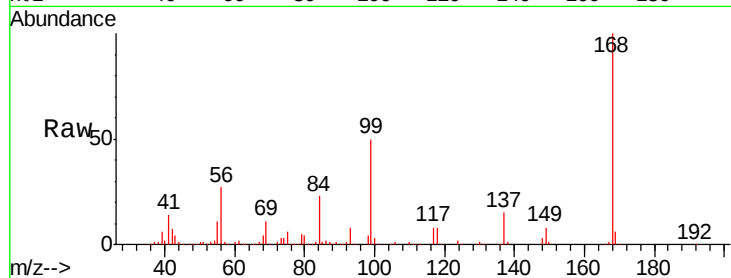
99 49.9 40.2 60.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

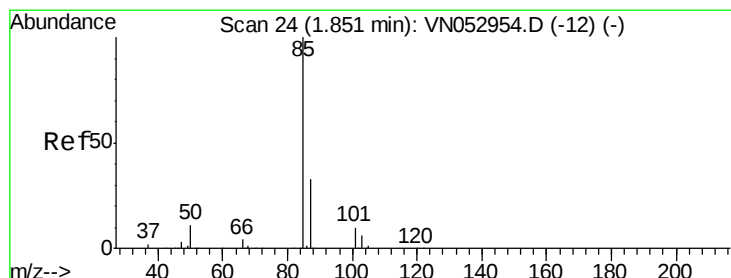
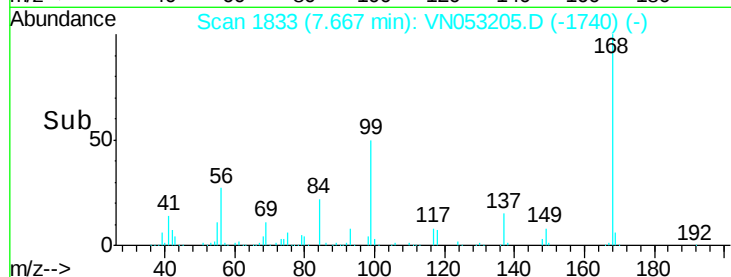
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.300 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053205.D

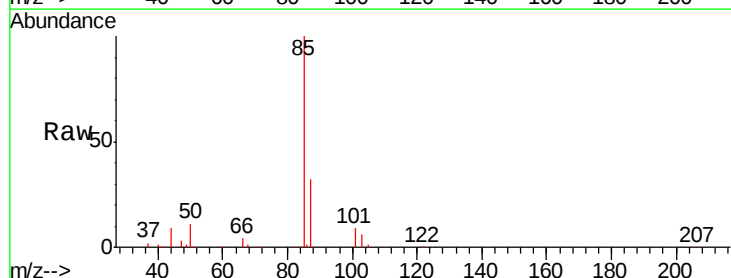
Acq: 27 Dec 2018 11:56

Tgt Ion: 85 Resp: 154437

Ion Ratio Lower Upper

85 100

87 32.4 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

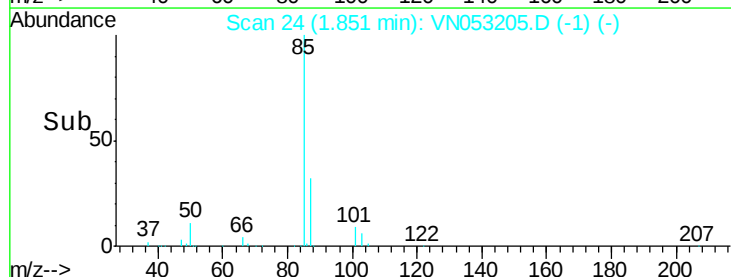
1.85

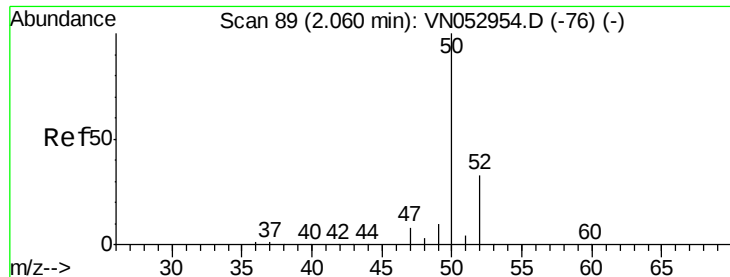
100000

50000

0

Time-->





#3

Chloromethane

Concen: 19.657 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampled :

VN1227WBS01

Tgt Ion: 50 Resp: 201021

Ion Ratio Lower Upper

50 100

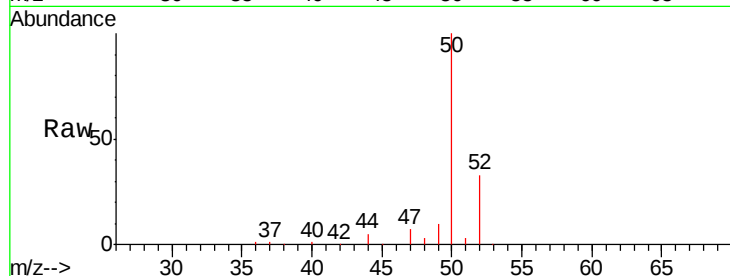
52 32.7 26.2 39.4

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

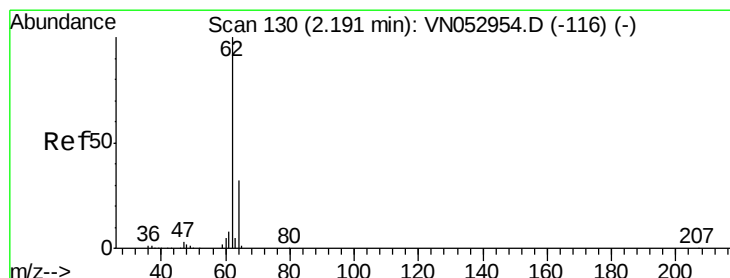
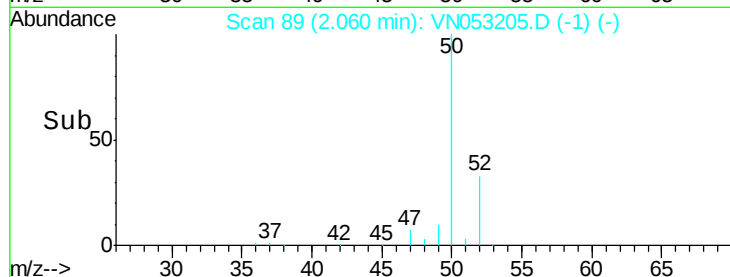
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 19.865 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN053205.D

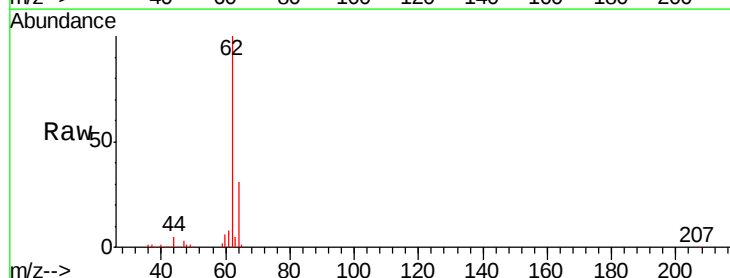
Acq: 27 Dec 2018 11:56

Tgt Ion: 62 Resp: 205739

Ion Ratio Lower Upper

62 100

64 31.1 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.19

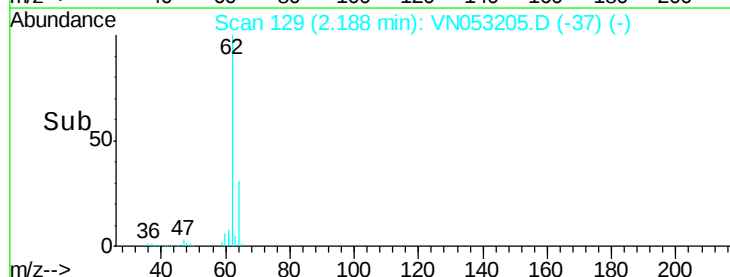
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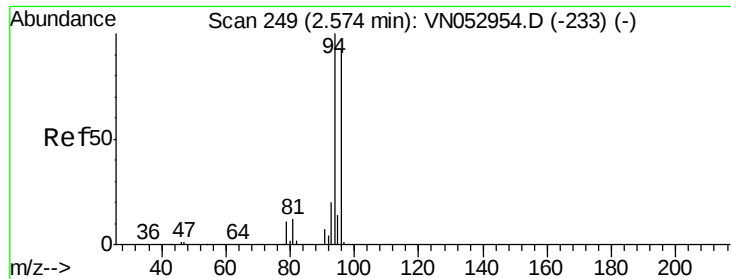
100000

50000

0

Time-->





#5

Bromomethane

Concen: 18.494 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 94 Resp: 132703

Ion Ratio Lower Upper

94 100

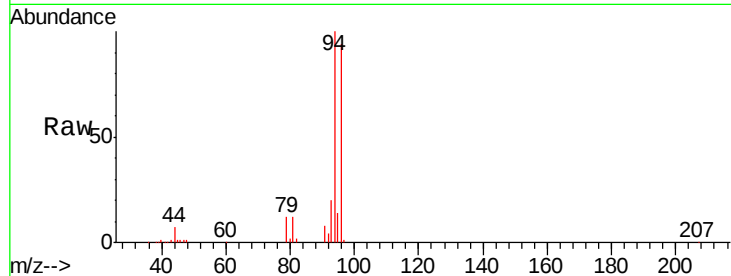
96 93.9 75.0 112.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN053205.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN053205.D (-156) (-)

2.57

80000

60000

40000

20000

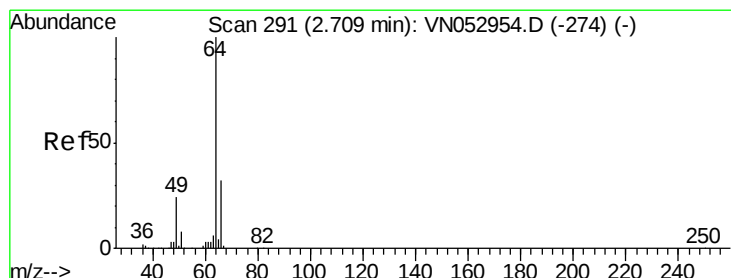
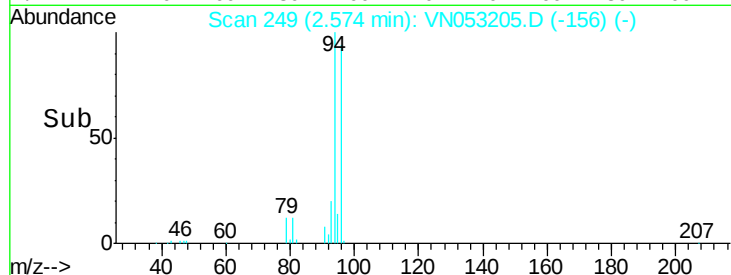
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Time-->

2.50

2.60

2.70



#6

Chloroethane

Concen: 20.048 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN053205.D

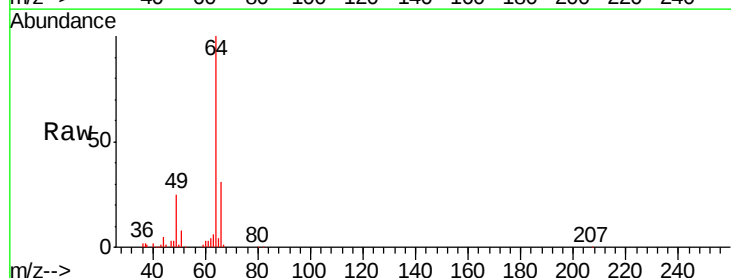
Acq: 27 Dec 2018 11:56

Tgt Ion: 64 Resp: 122971

Ion Ratio Lower Upper

64 100

66 31.0 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN053205.D (-198) (-)

Ion 65.90 (65.60 to 66.60): VN053205.D (-198) (-)

2.71

60000

40000

20000

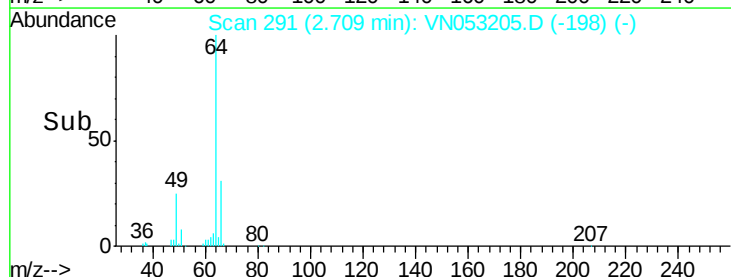
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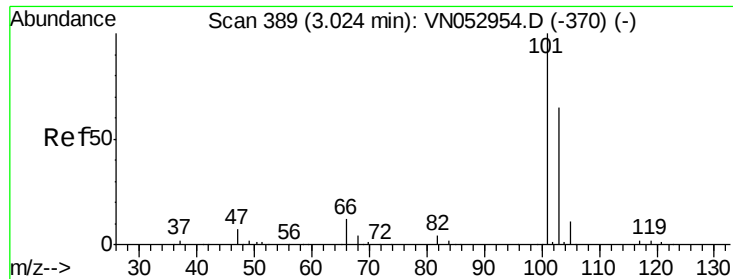
Time-->

2.60

2.70

2.80





#7

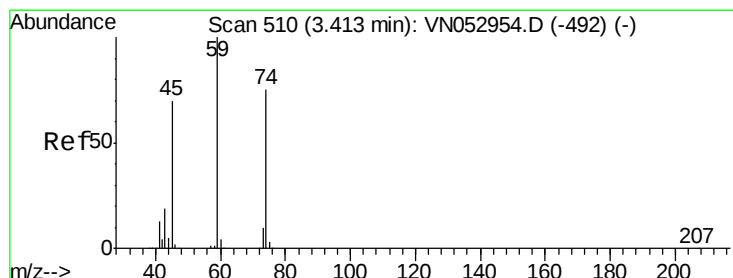
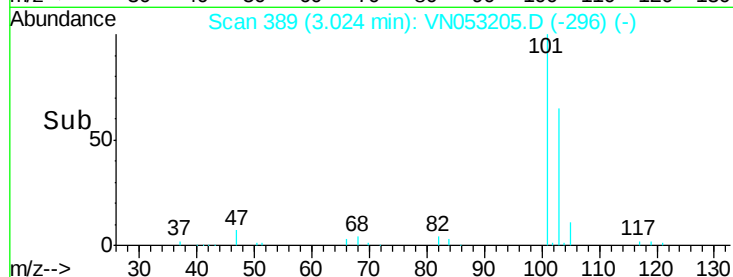
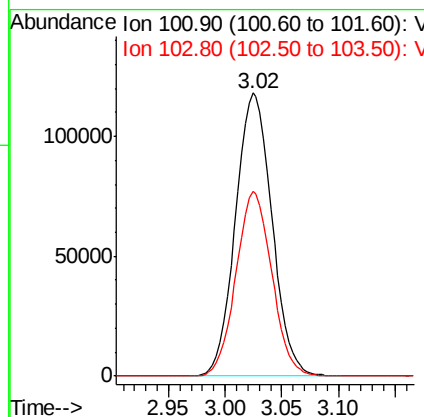
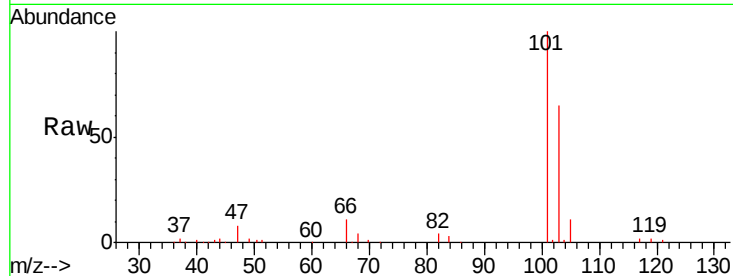
Trichlorofluoromethane
Concen: 20.570 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
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ClientSampleId :
VN1227WBS01

Tgt Ion: 101 Resp: 265395
Ion Ratio Lower Upper
101 100
103 65.4 51.8 77.6

Manual Integrations
APPROVED

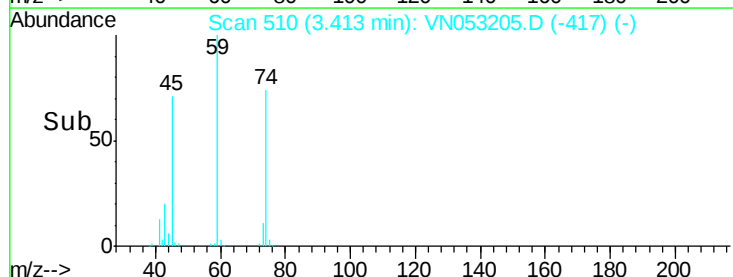
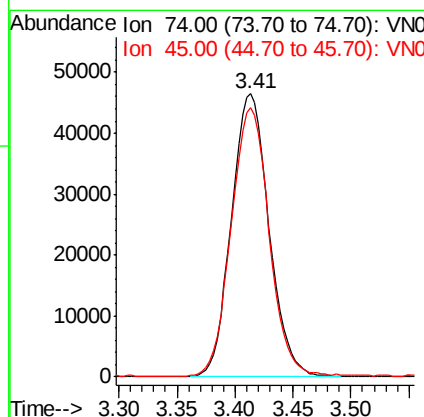
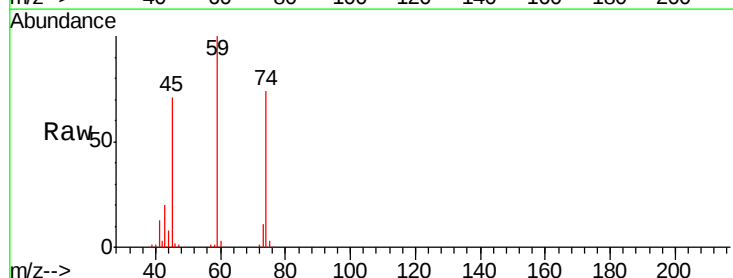
MMDadoda
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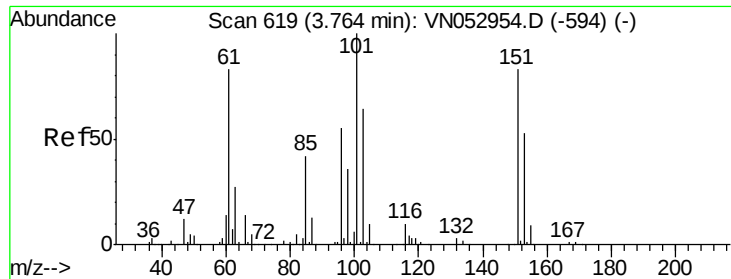


#8

Diethyl Ether
Concen: 21.460 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion: 74 Resp: 104455
Ion Ratio Lower Upper
74 100
45 96.2 49.4 148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.280 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

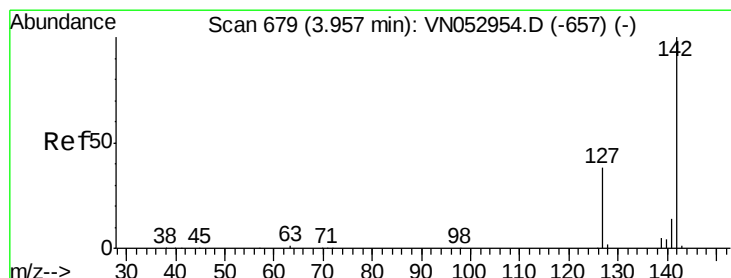
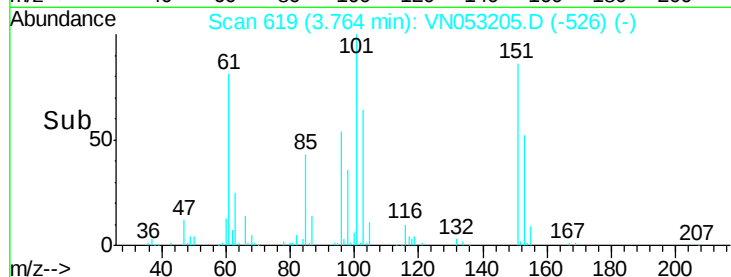
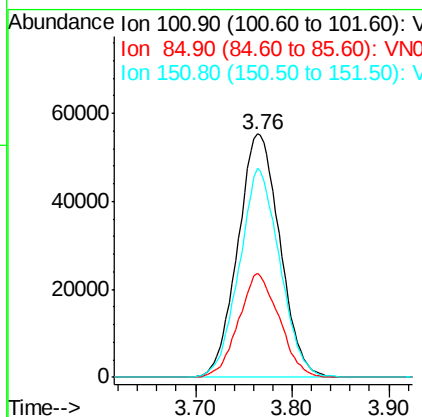
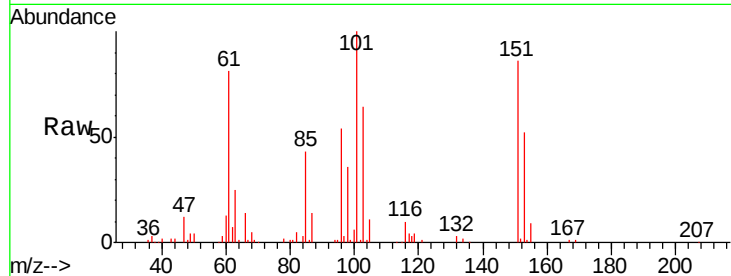
ClientSampleId :

VN1227WBS01

Tgt Ion:	101	Resp:	166830
Ion Ratio	Lower	Upper	
101	100		
85	41.2	33.6	50.4
151	82.8	65.5	98.3

Manual Integrations
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#10

Methyl Iodide

Concen: 19.188 ug/l

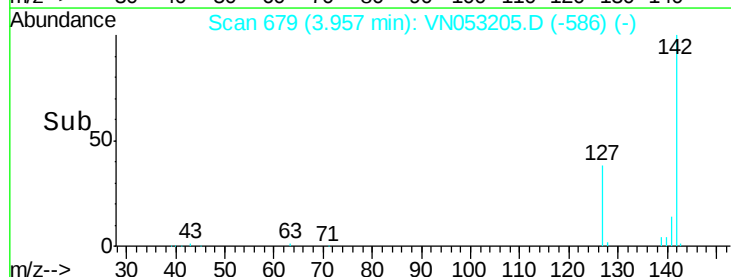
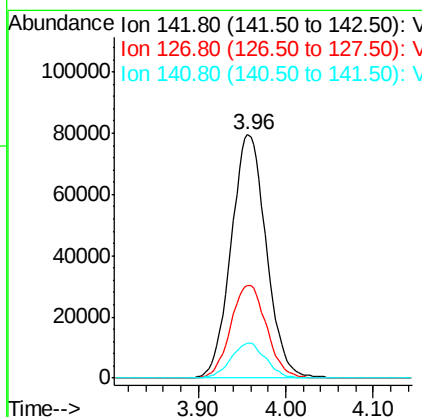
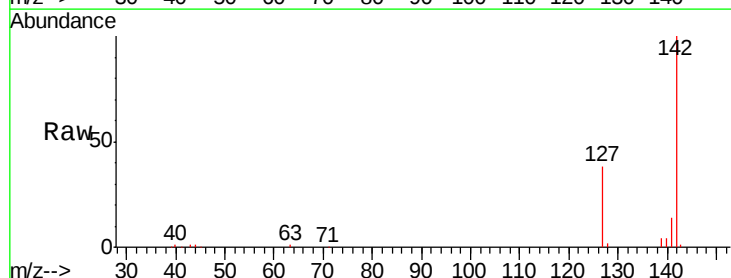
RT: 3.96 min Scan# 679

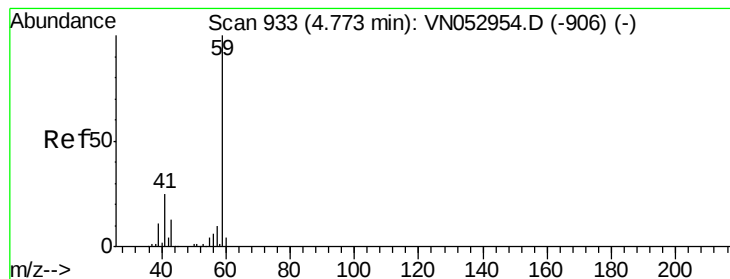
Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Tgt Ion:	142	Resp:	221666
Ion Ratio	Lower	Upper	
142	100		
127	38.9	31.0	46.6
141	14.3	11.2	16.8





#11

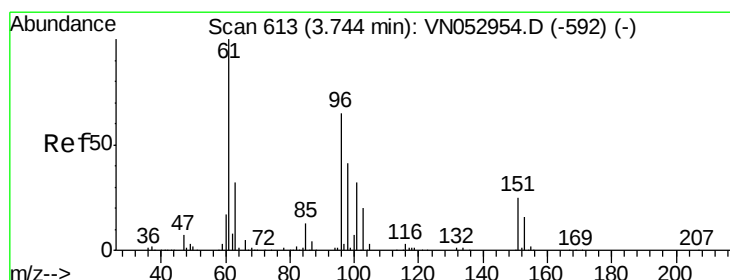
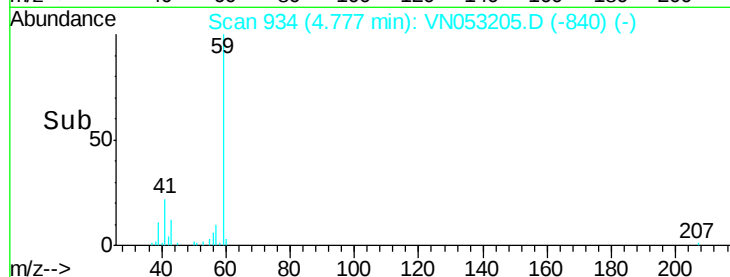
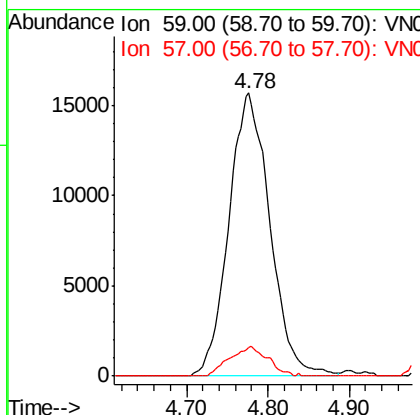
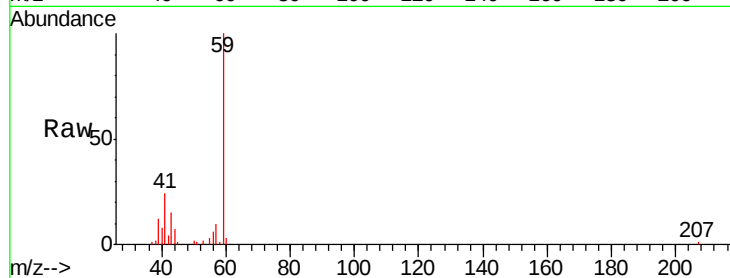
Tert butyl alcohol
 Concen: 106.258 ug/l
 RT: 4.78 min Scan# 934
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.8	7.7	11.5

Manual Integrations
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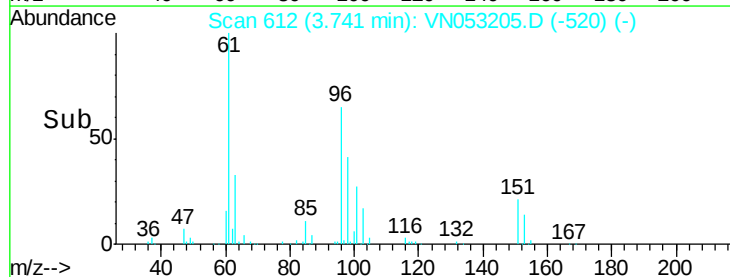
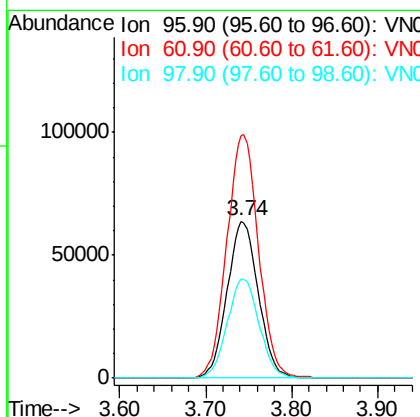
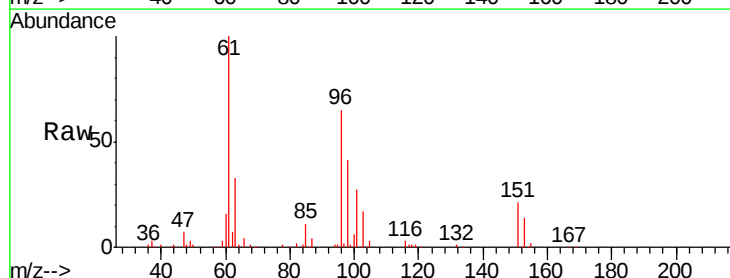
MMDadoda
 12/28/2018 10:14:24 AM

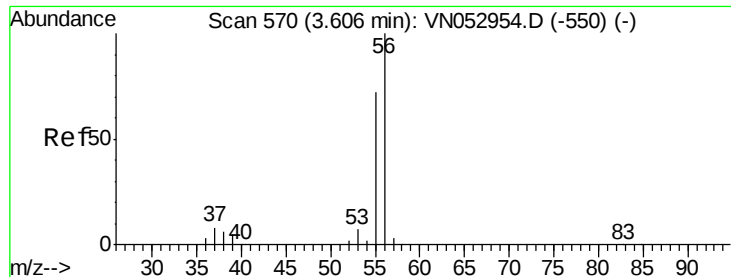


#12

1,1-Dichloroethene
 Concen: 20.244 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.5	125.6	188.4
98	62.9	50.6	75.8





#13

Acrolein

Concen: 101.188 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 56 Resp: 47372

Ion Ratio Lower Upper

56 100

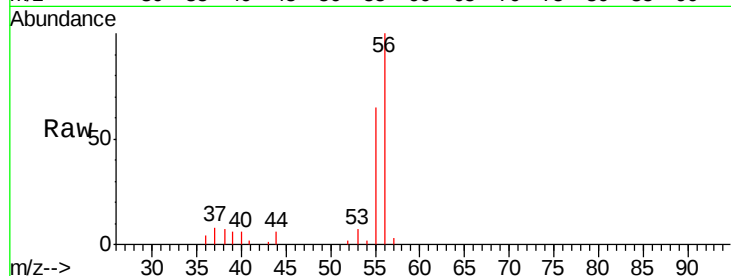
55 66.4 56.6 85.0

Manual Integrations

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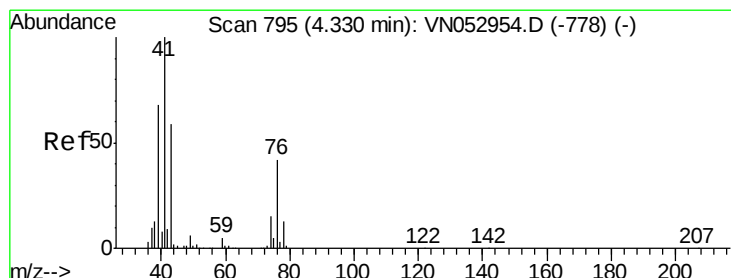
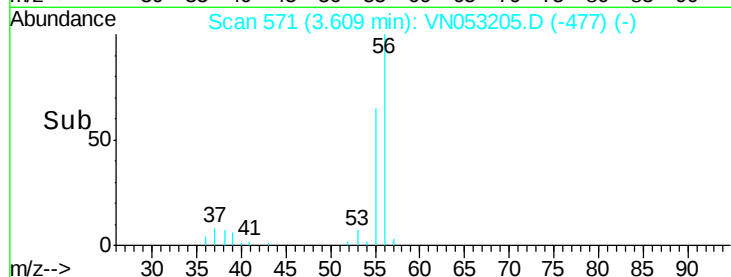
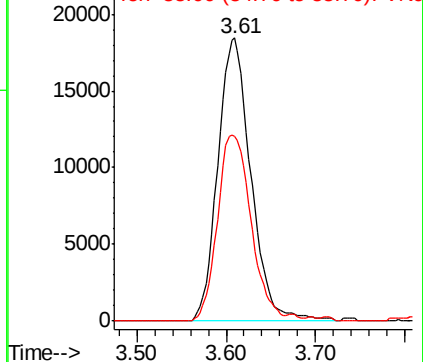
MMDadoda

12/28/2018 10:14:24 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 22.147 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

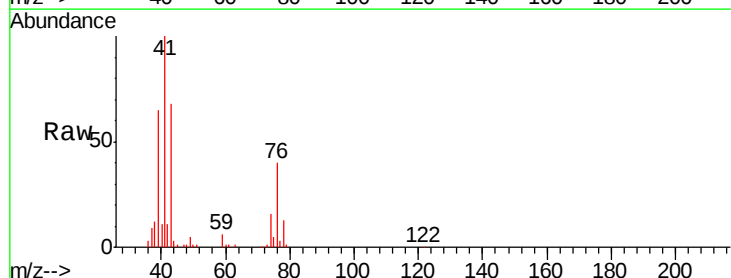
Tgt Ion: 41 Resp: 272639

Ion Ratio Lower Upper

41 100

39 61.8 54.1 81.1

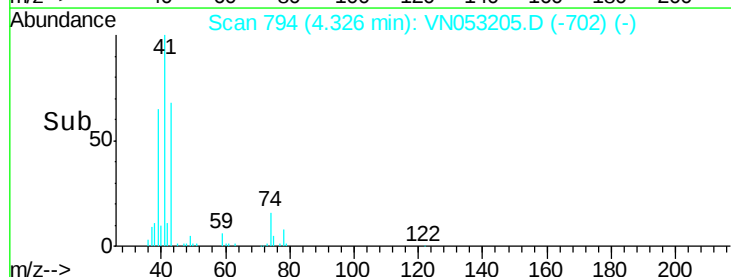
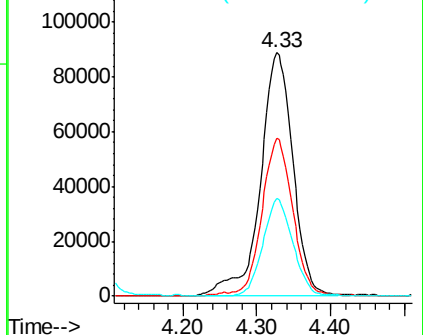
76 36.7 30.3 45.5

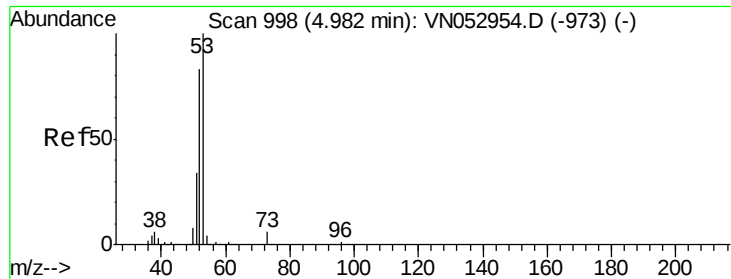


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 106.973 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

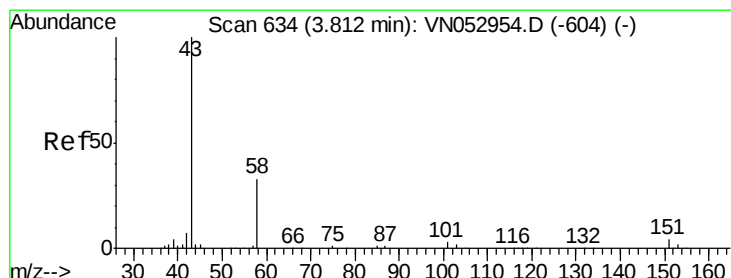
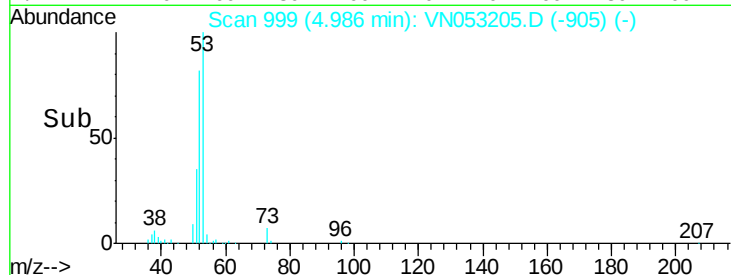
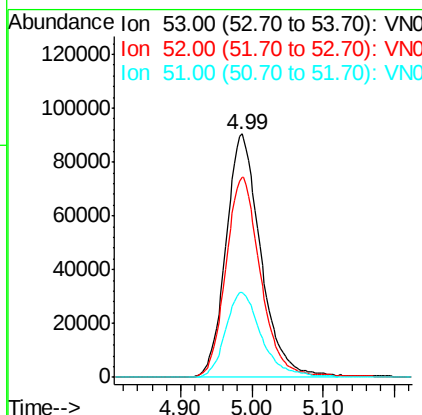
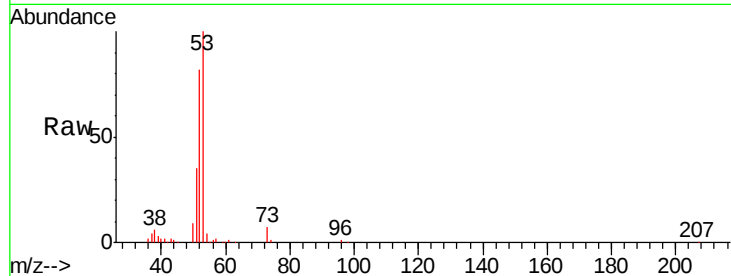
ClientSampleId :

VN1227WBS01

Tgt Ion:	53	Resp:	306835
Ion Ratio		Lower	Upper
53	100		
52	82.3	65.1	97.7
51	36.2	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 114.260 ug/l

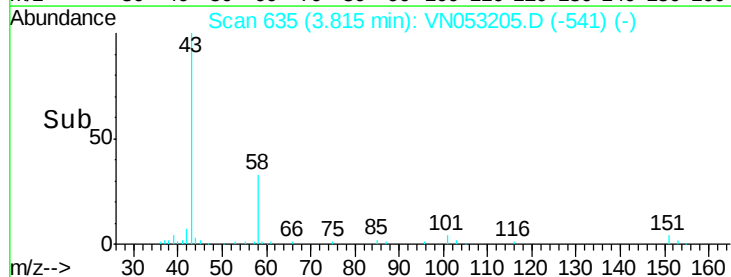
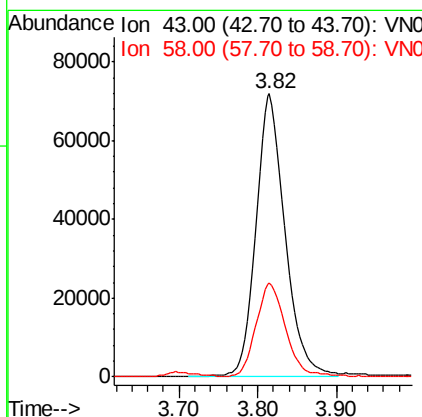
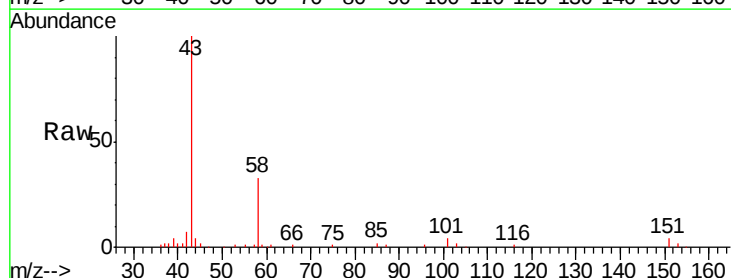
RT: 3.82 min Scan# 635

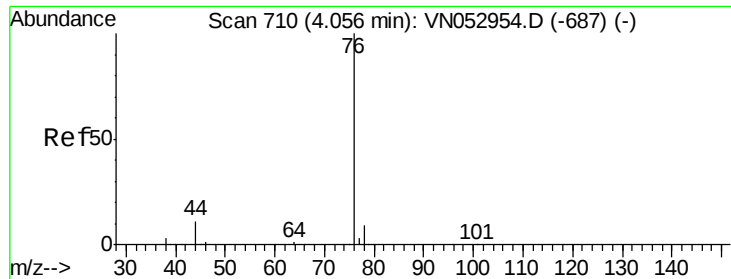
Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Tgt Ion:	43	Resp:	189569
Ion Ratio		Lower	Upper
43	100		
58	32.5	25.4	38.0





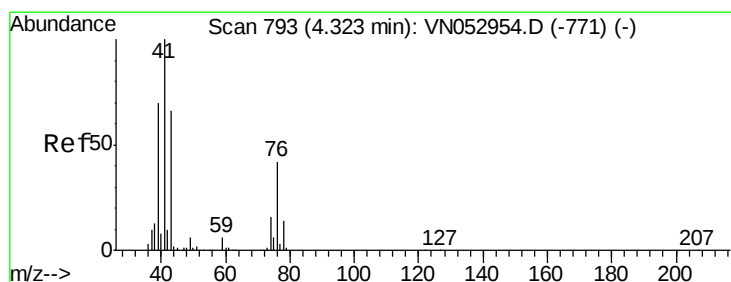
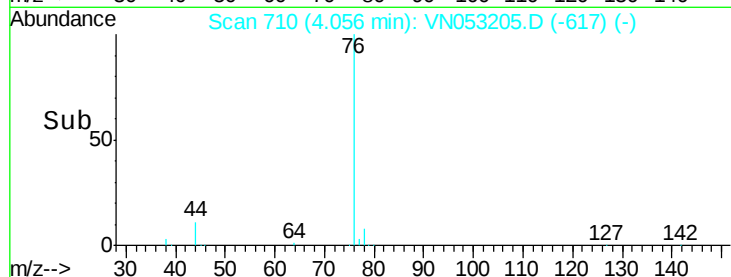
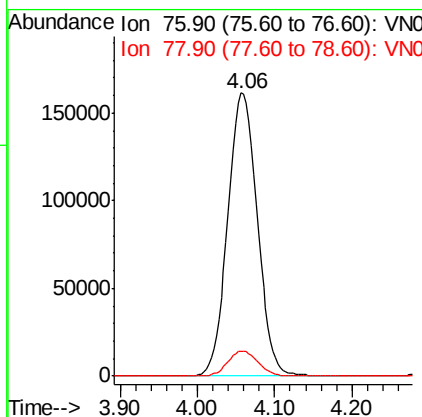
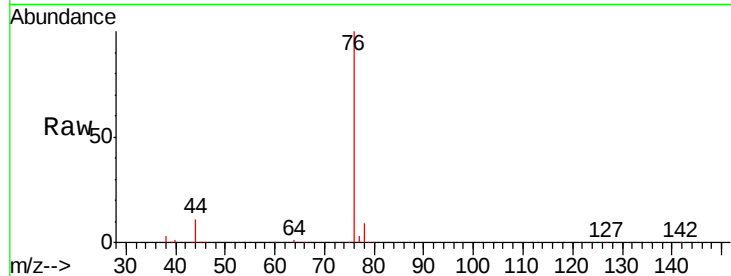
#17
Carbon Disulfide
Concen: 16.543 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion: 76 Resp: 428774
Ion Ratio Lower Upper
76 100
78 8.9 7.1 10.7

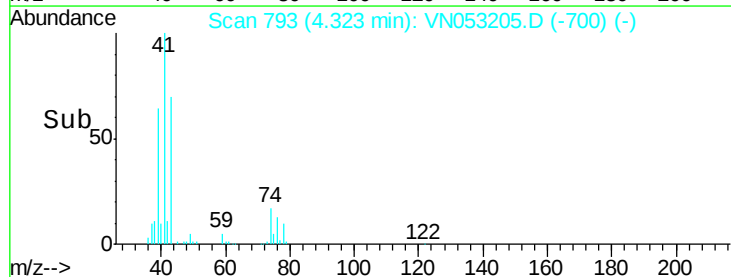
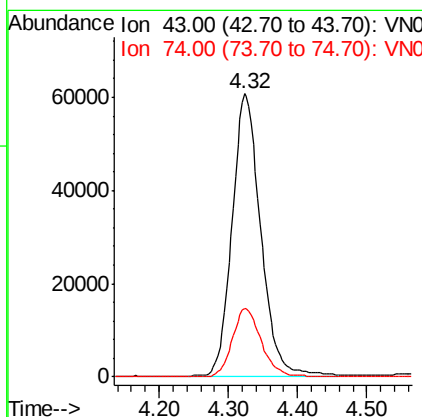
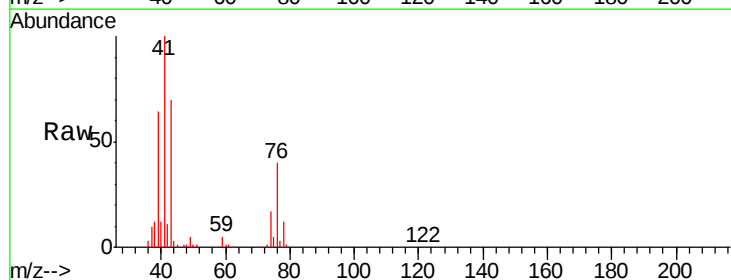
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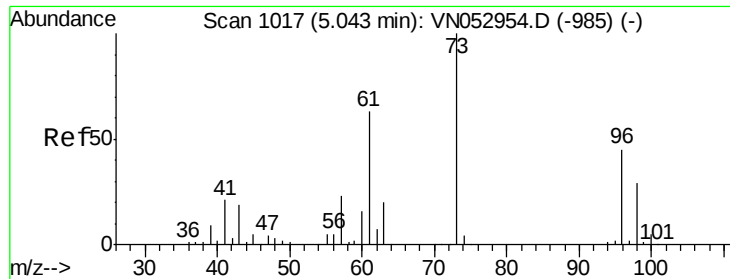
MMDadoda
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#18
Methyl Acetate
Concen: 23.656 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion: 43 Resp: 174122
Ion Ratio Lower Upper
43 100
74 24.6 19.2 28.8





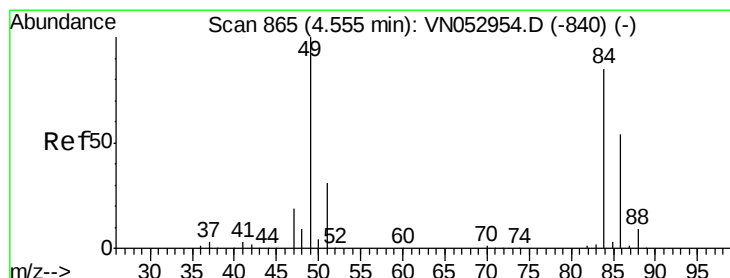
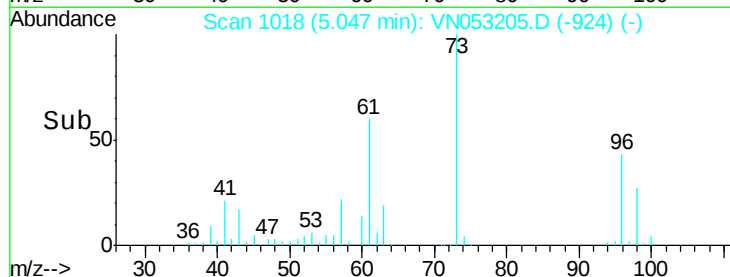
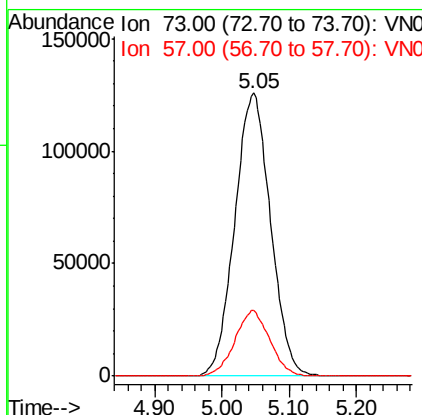
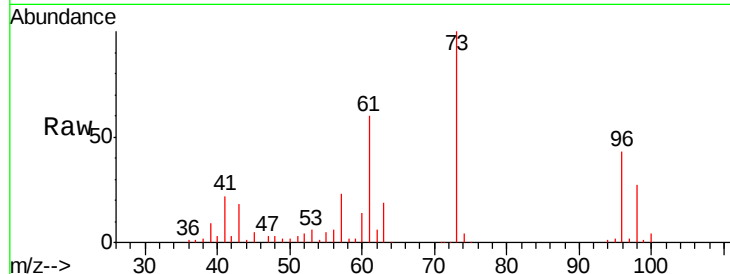
#19
Methyl tert-butyl Ether
Concen: 21.853 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampled :
VN1227WBS01

Tgt Ion: 73 Resp: 464770
Ion Ratio Lower Upper
73 100
57 23.0 18.4 27.6

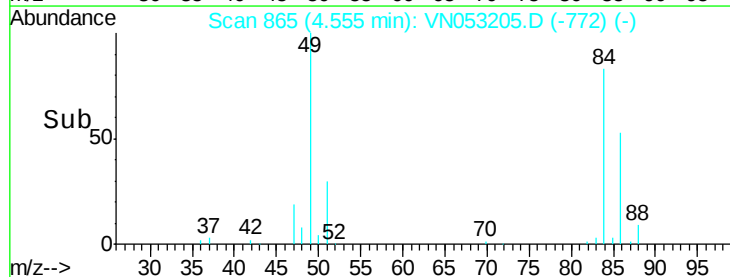
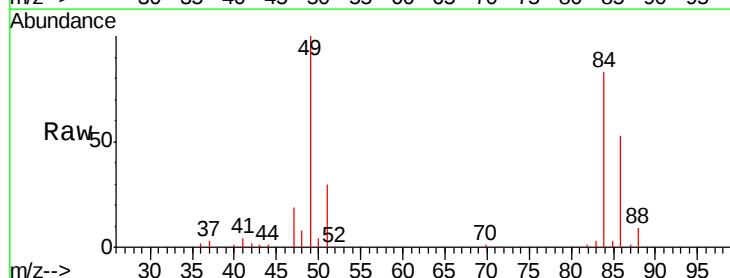
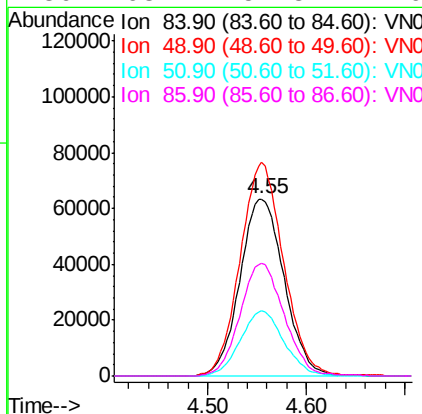
Manual Integrations
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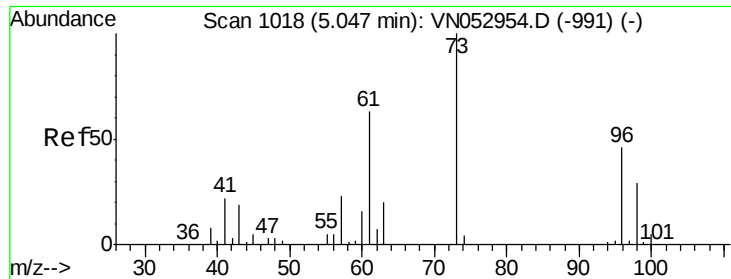
MMDadoda
12/28/2018 10:14:24 AM



#20
Methylene Chloride
Concen: 21.720 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion: 84 Resp: 196568
Ion Ratio Lower Upper
84 100
49 120.8 96.8 145.2
51 36.7 29.9 44.9
86 63.7 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 20.101 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

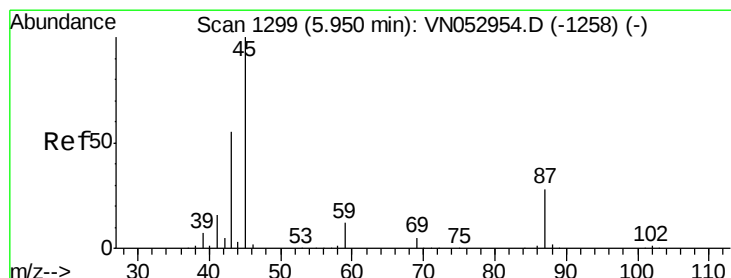
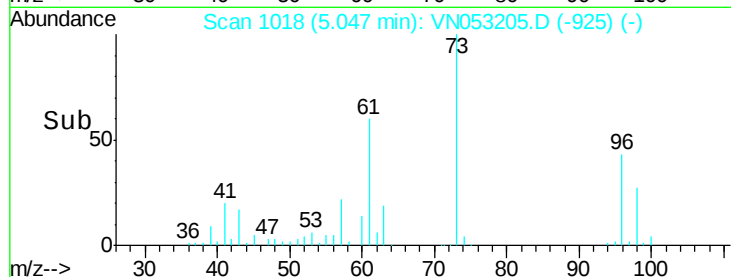
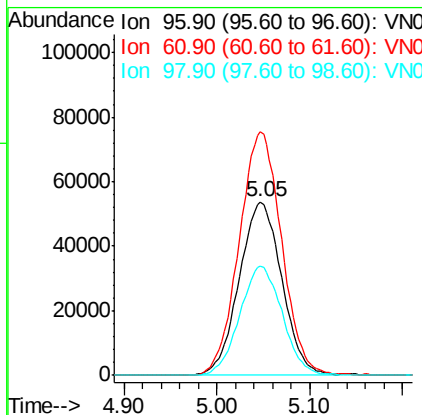
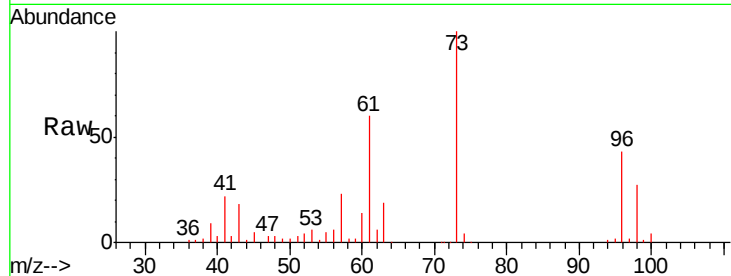
ClientSampleId :

VN1227WBS01

Tgt Ion:	96	Resp:	171642
Ion	Ratio	Lower	Upper
96	100		
61	140.6	110.8	166.2
98	63.2	51.4	77.2

Manual Integrations
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#22

Diisopropyl ether

Concen: 22.540 ug/l

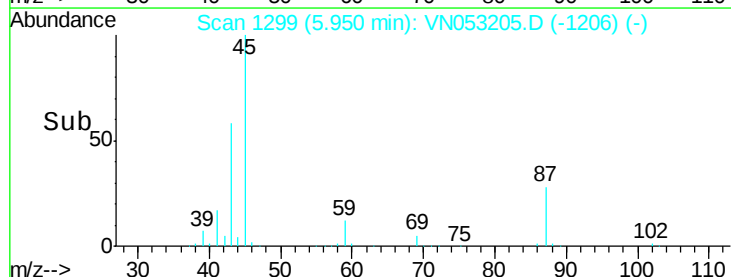
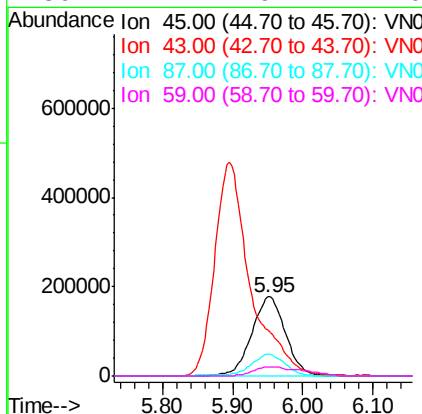
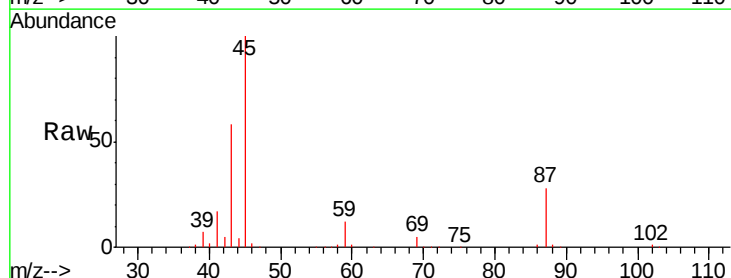
RT: 5.95 min Scan# 1299

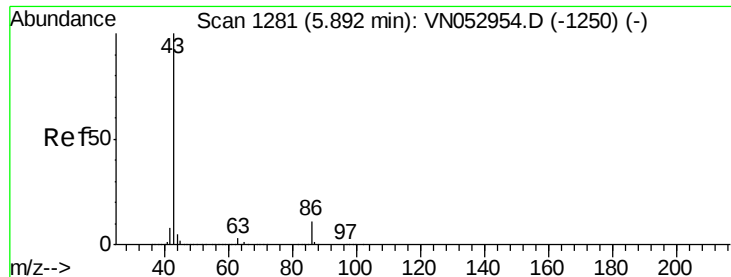
Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Tgt Ion:	45	Resp:	592273
Ion	Ratio	Lower	Upper
45	100		
43	56.4	45.5	68.3
87	27.6	22.0	33.0
59	11.7	9.4	14.0





#23

Vinyl Acetate

Concen: 112.306 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 43 Resp: 1696950

Ion Ratio Lower Upper

43 100

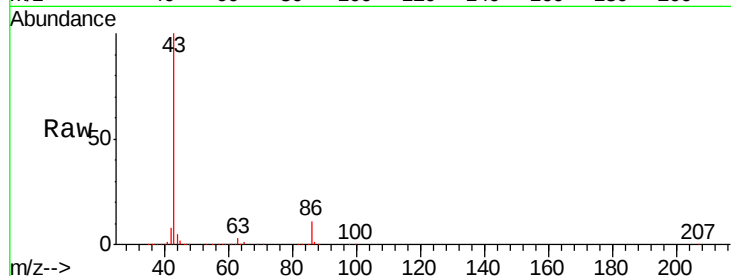
86 10.8 8.1 12.1

Manual Integrations

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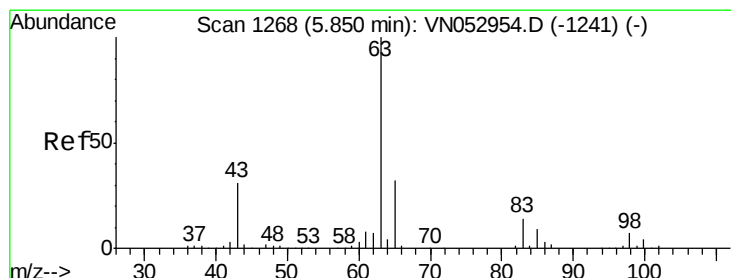
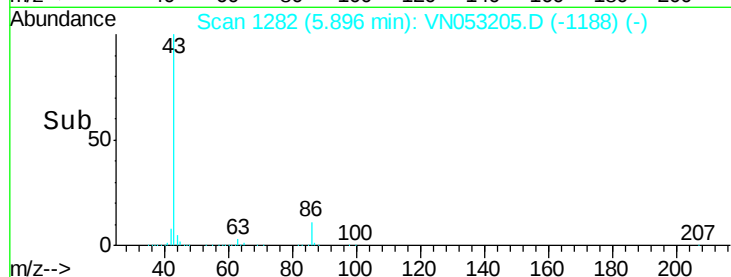
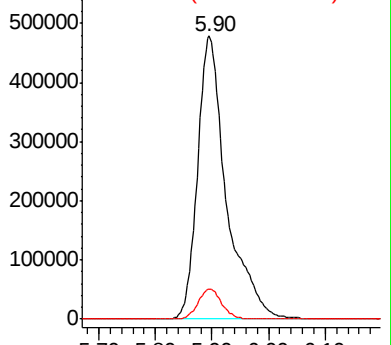
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 21.797 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

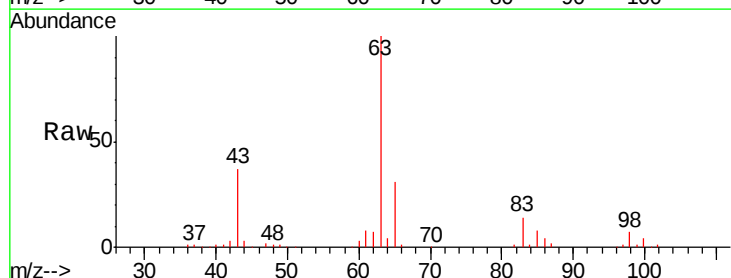
Tgt Ion: 63 Resp: 340349

Ion Ratio Lower Upper

63 100

98 6.8 3.1 9.4

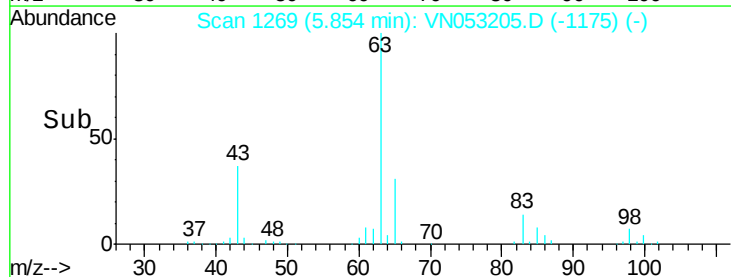
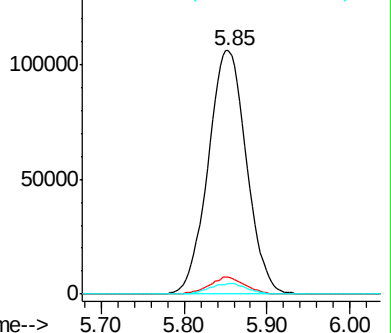
100 4.2 2.0 5.8

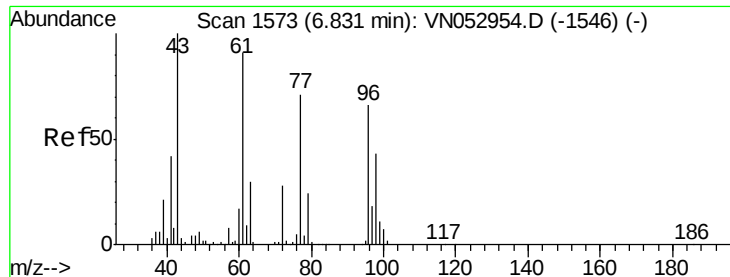


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





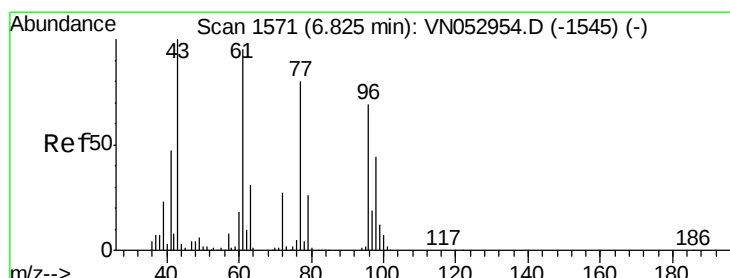
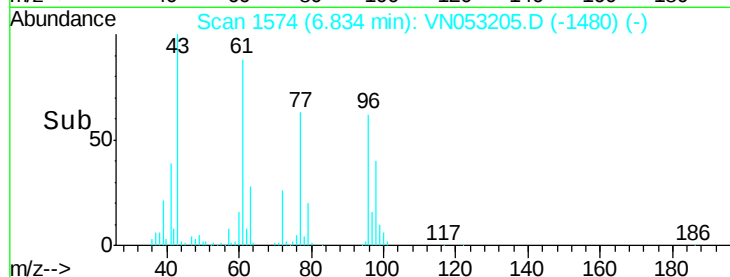
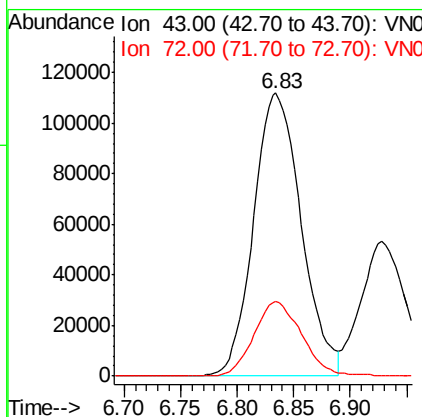
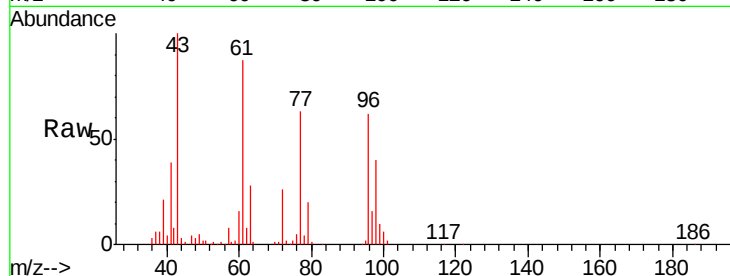
#25
2-Butanone
Concen: 117.110 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion: 43 Resp: 326078
Ion Ratio Lower Upper
43 100
72 26.5 21.0 31.6

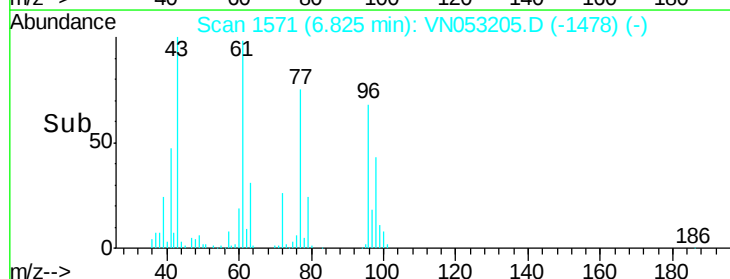
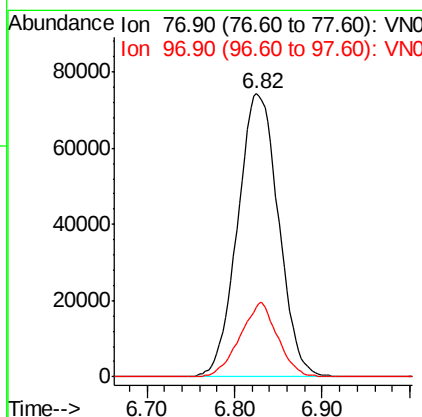
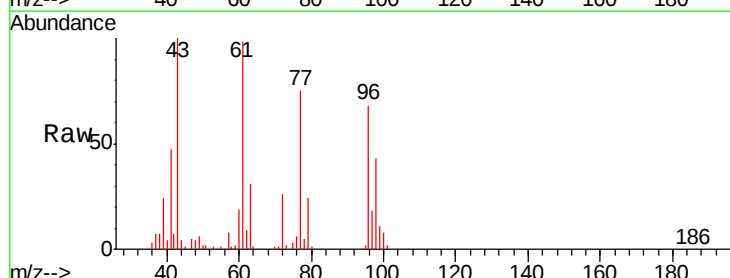
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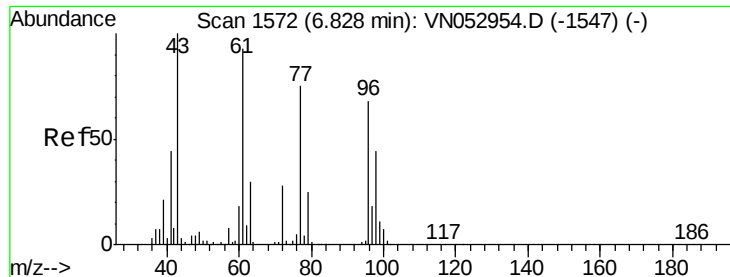
MMDadoda
12/28/2018 10:14:24 AM



#26
2,2-Dichloropropane
Concen: 20.195 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion: 77 Resp: 240718
Ion Ratio Lower Upper
77 100
97 24.3 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 21.222 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

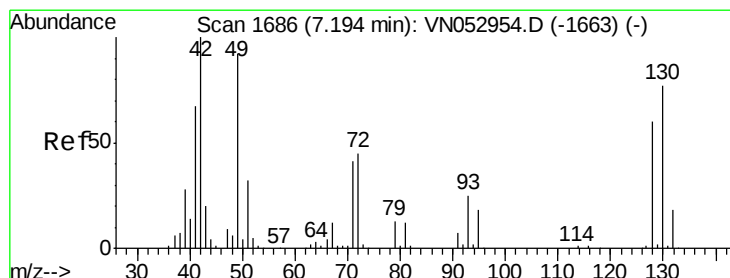
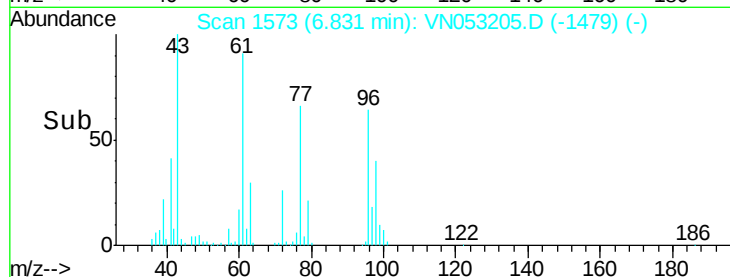
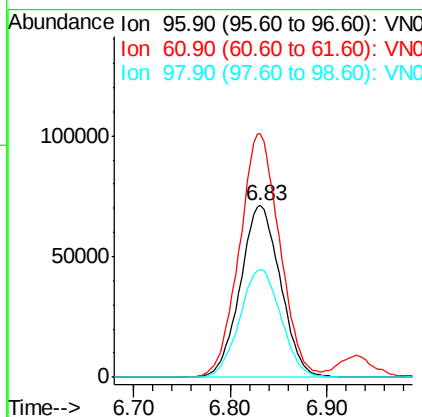
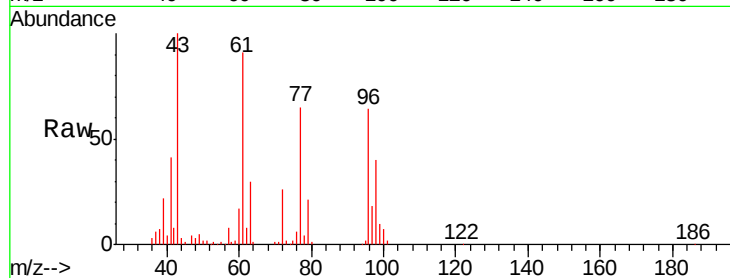
ClientSampleId :

VN1227WBS01

Tgt Ion:	96	Resp:	205151
Ion Ratio	Lower	Upper	
96	100		
61	142.1	0.0	284.2
98	64.7	0.0	129.2

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#28

Bromochloromethane

Concen: 21.606 ug/l

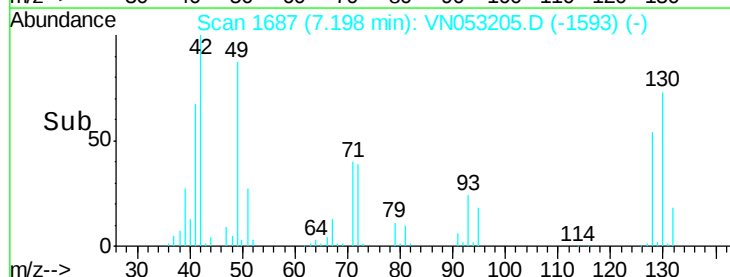
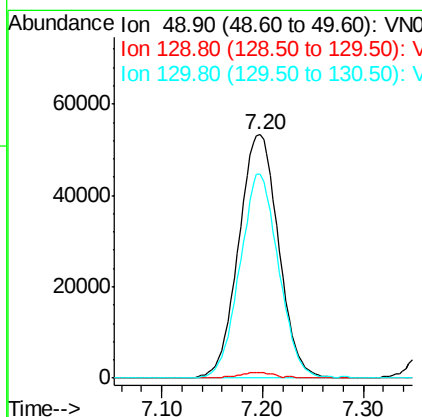
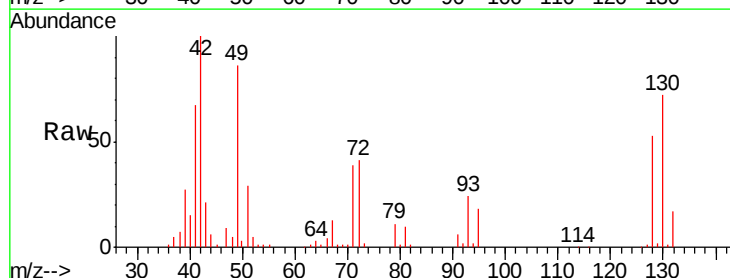
RT: 7.20 min Scan# 1687

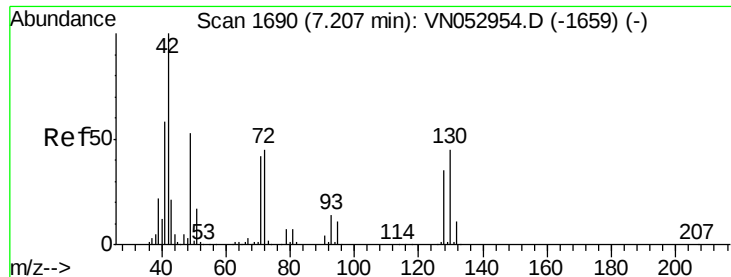
Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Tgt Ion:	49	Resp:	146186
Ion Ratio	Lower	Upper	
49	100		
129	1.9	0.0	4.0
130	81.4	63.3	94.9





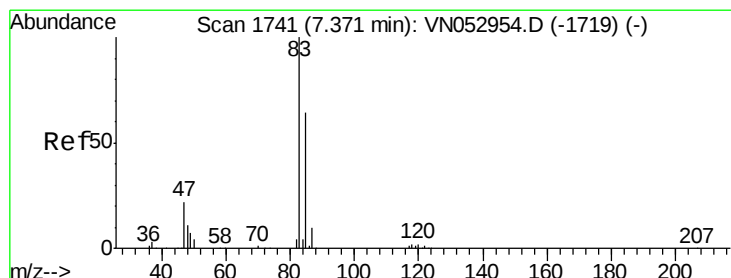
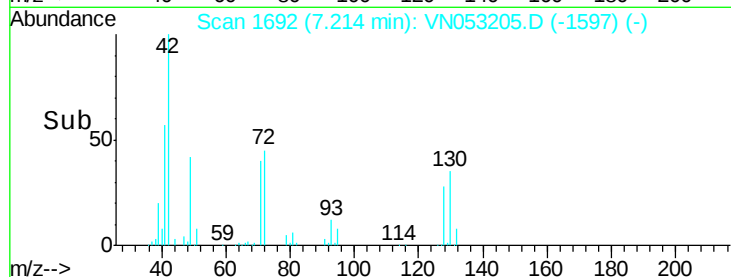
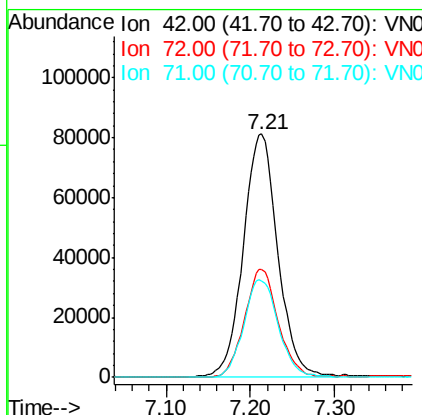
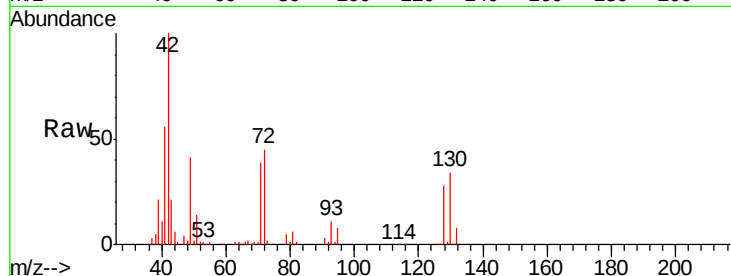
#29
Tetrahydrofuran
Concen: 110.447 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.01 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.7	34.7	52.1
71	40.7	32.3	48.5

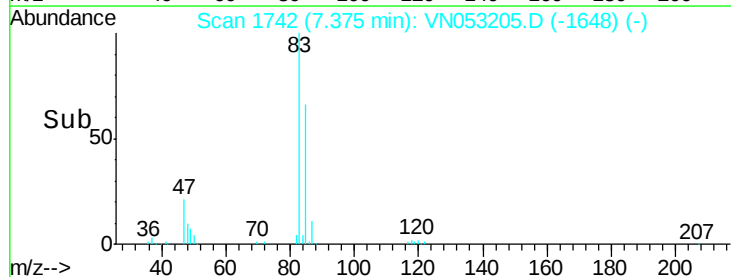
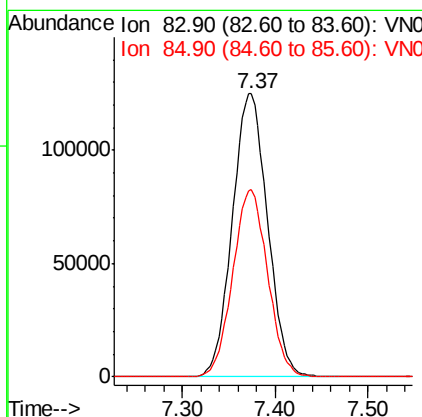
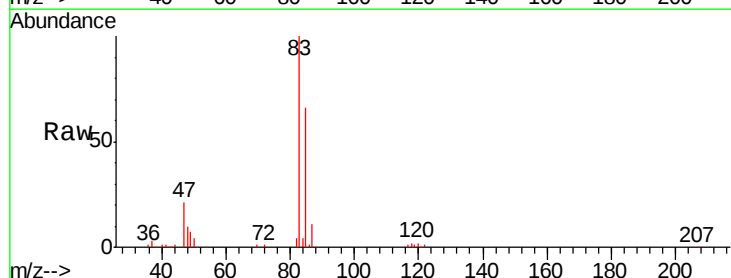
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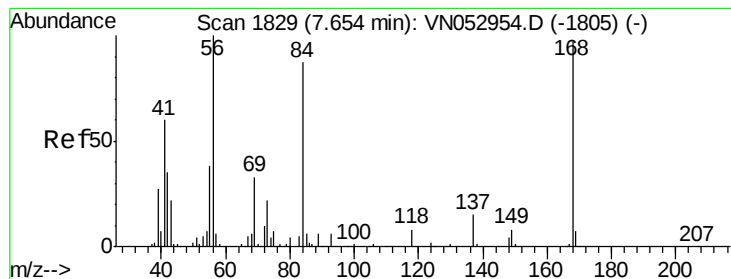
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#30
Chloroform
Concen: 21.449 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.1	78.1





#31

Cyclohexane

Concen: 20.042 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 56 Resp: 302734
Ion Ratio Lower Upper

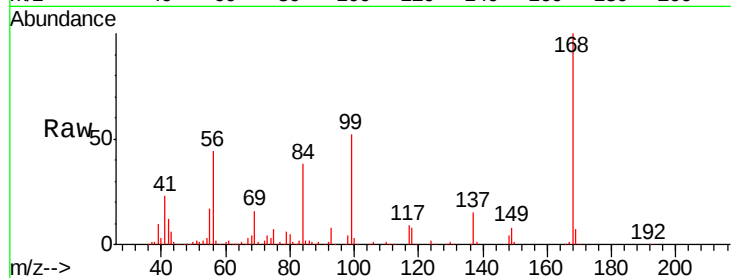
56 100

69 36.9 26.6 39.8

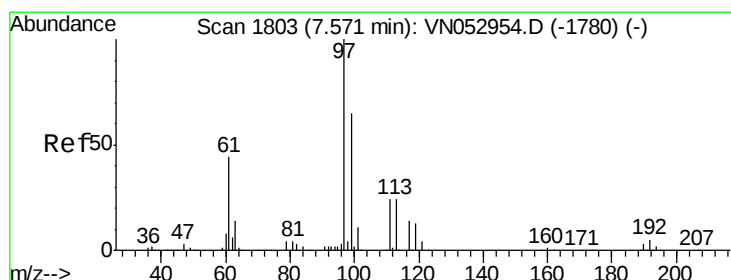
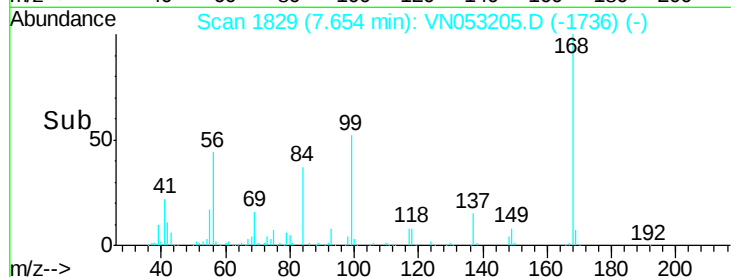
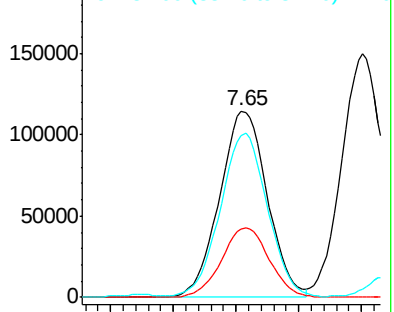
84 86.0 68.4 102.6

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Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 20.825 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN053205.D

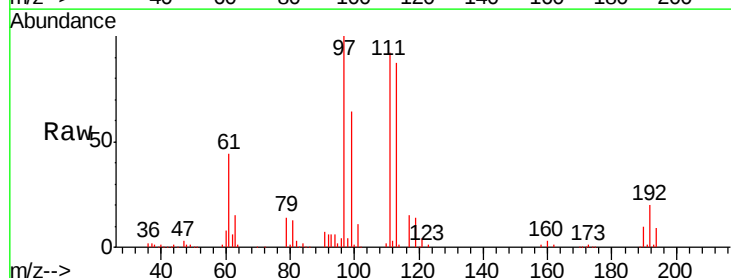
Acq: 27 Dec 2018 11:56

Tgt Ion: 97 Resp: 272121
Ion Ratio Lower Upper

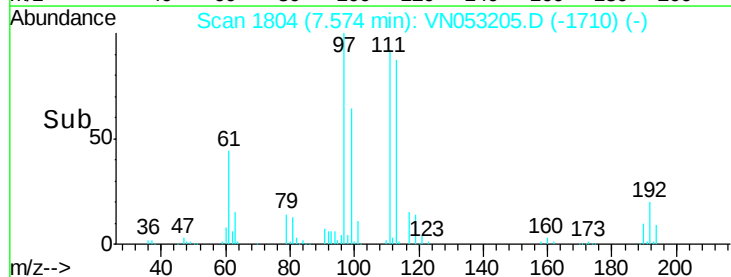
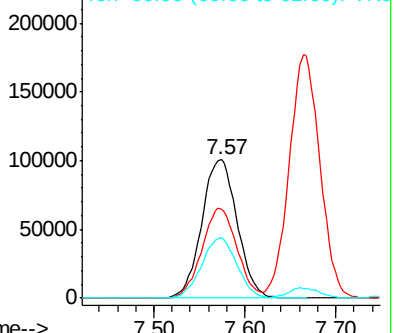
97 100

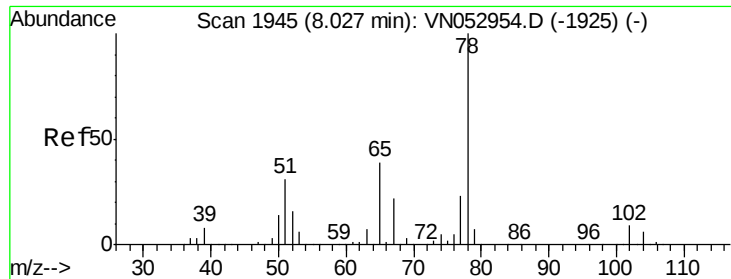
99 64.4 51.1 76.7

61 43.5 35.0 52.6



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





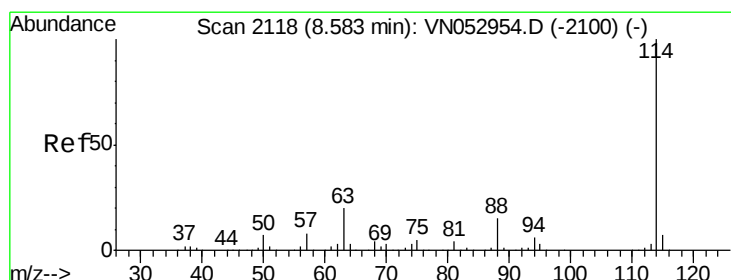
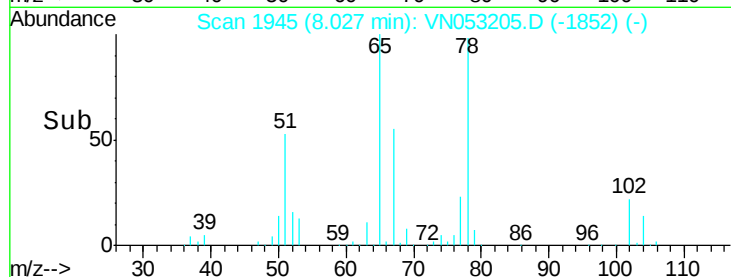
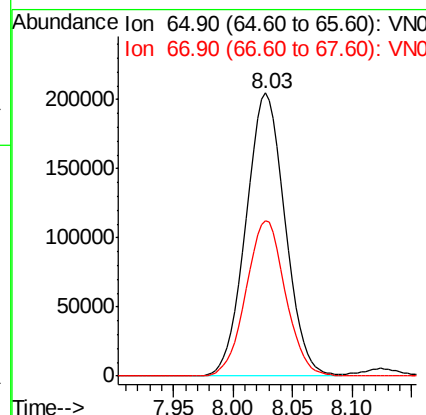
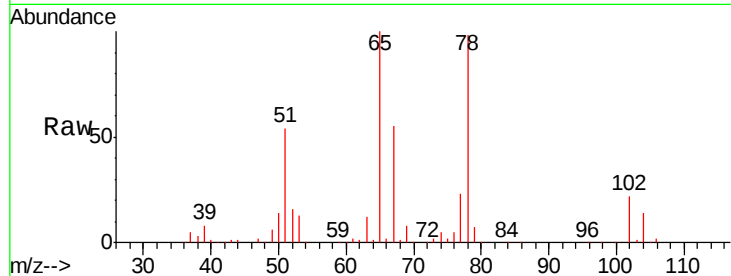
#33
 1,2-Dichloroethane-d4
 Concen: 20.825 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Tgt Ion: 65 Resp: 467289
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 110.4

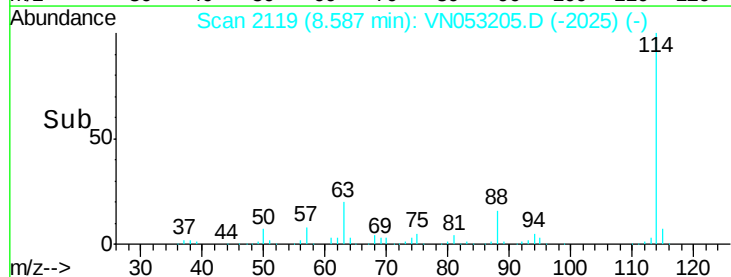
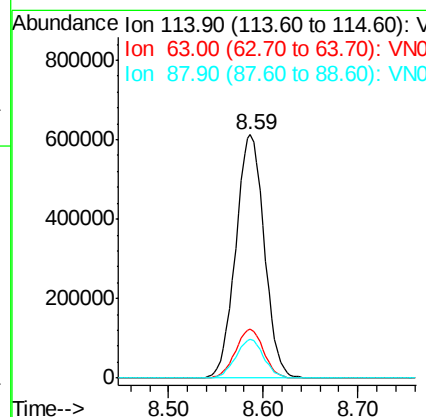
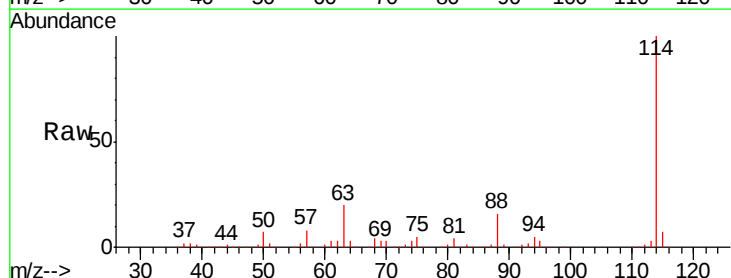
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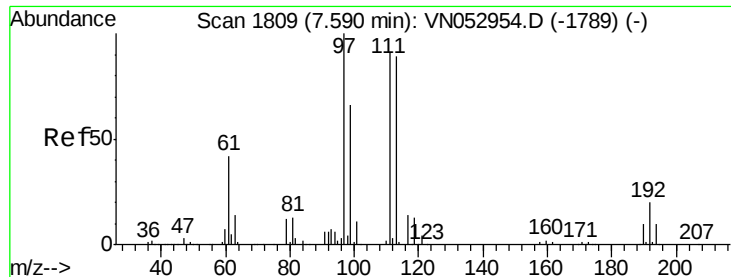
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Tgt Ion: 114 Resp: 1283592
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.8
 88 15.8 0.0 31.0





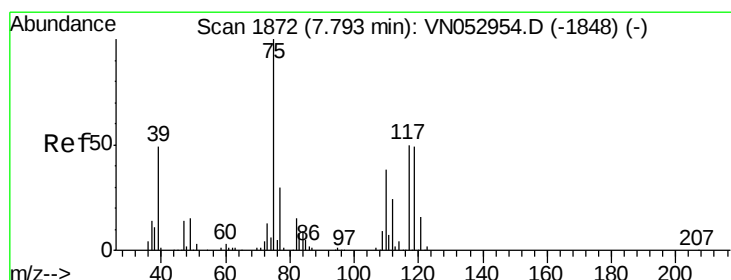
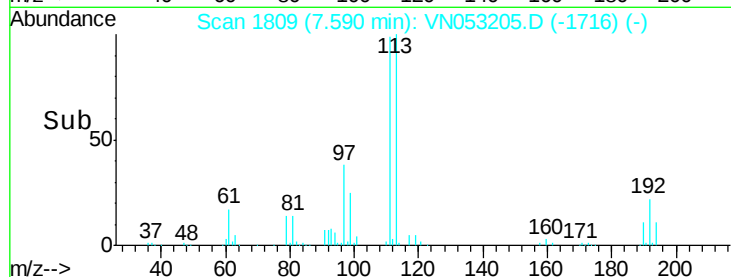
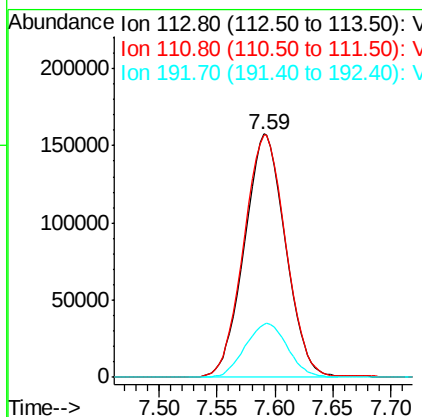
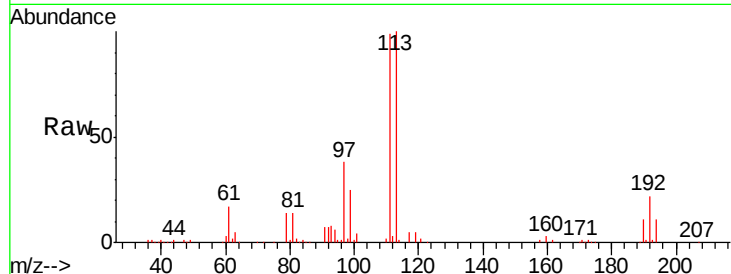
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	389320		
111	102.0	83.0	124.4	
192	22.8	17.5	26.3	

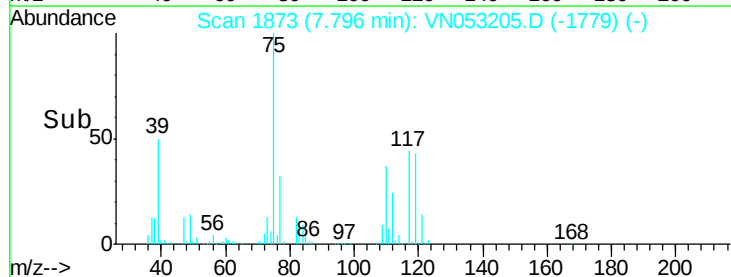
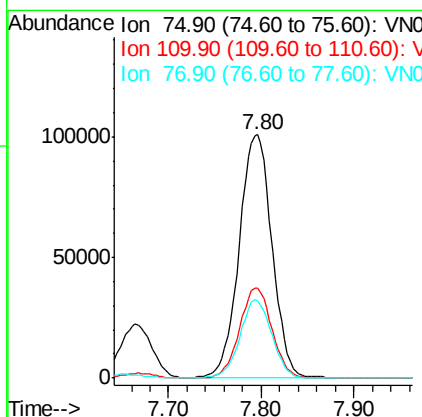
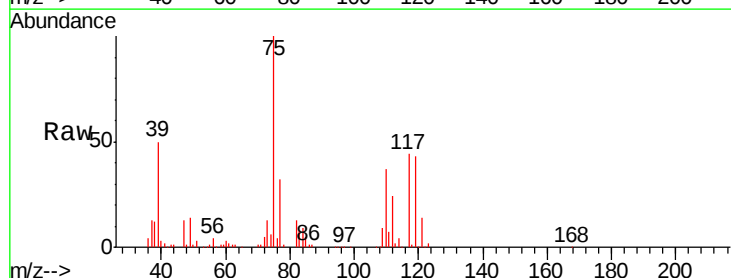
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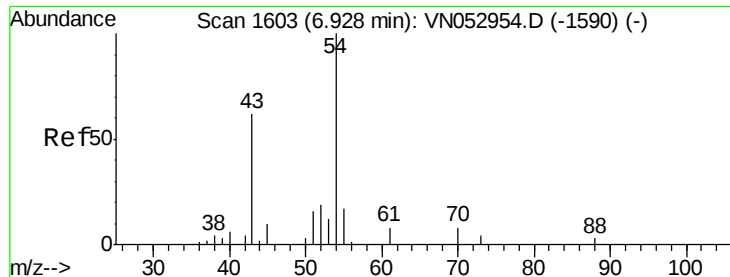
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#36
 1,1-Dichloropropene
 Concen: 20.004 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	246454		
110	36.7	18.2	54.6	
77	31.3	24.9	37.3	





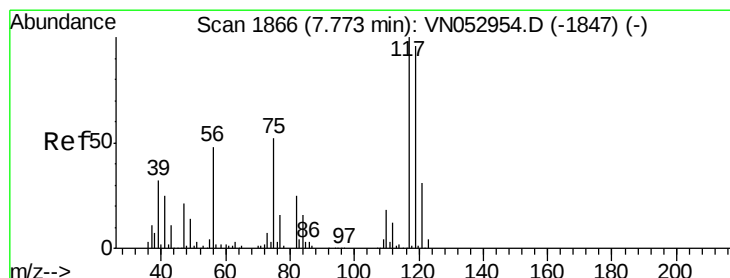
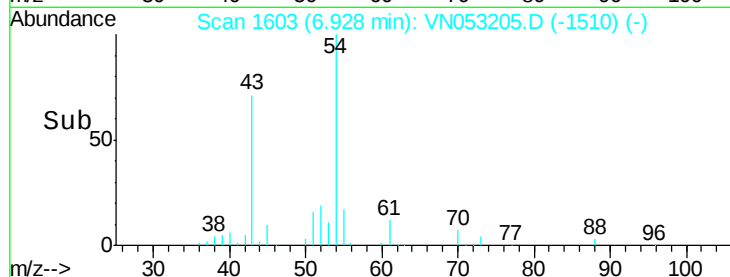
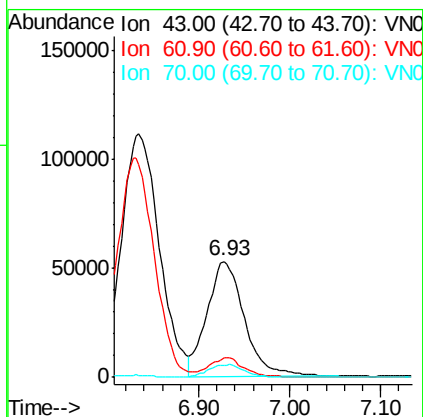
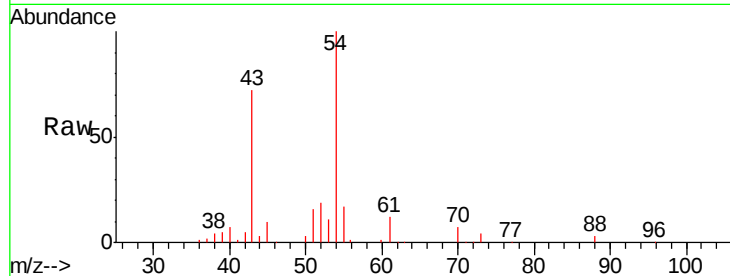
#37
Ethyl Acetate
Concen: 21.904 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.8	17.6
70	10.6	8.4	12.6

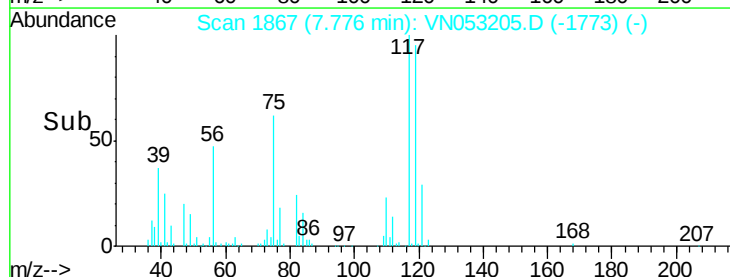
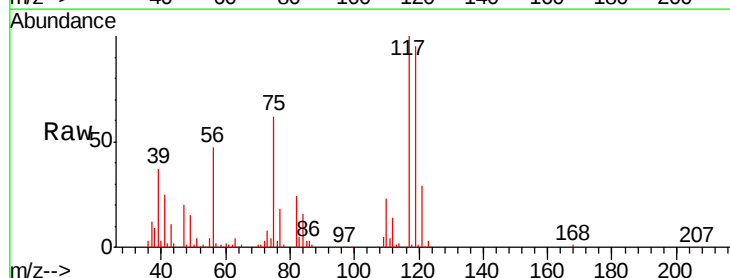
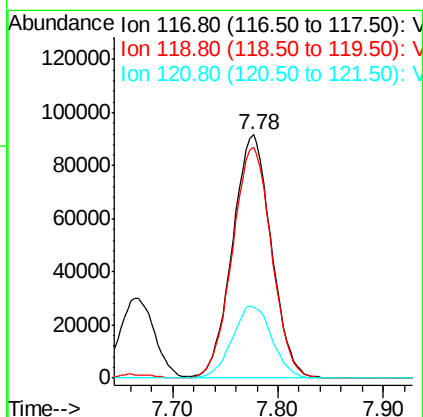
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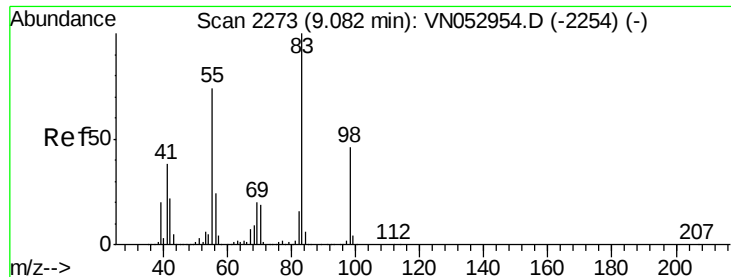
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#38
Carbon Tetrachloride
Concen: 20.776 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.6	77.1	115.7
121	29.1	24.9	37.3





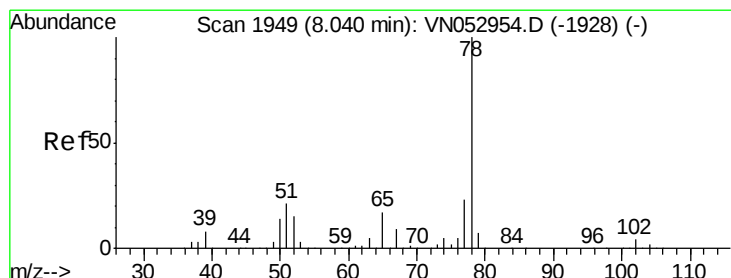
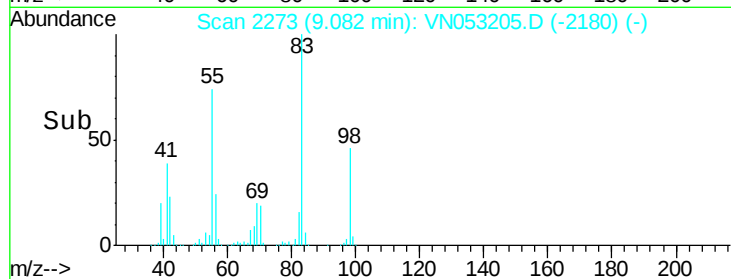
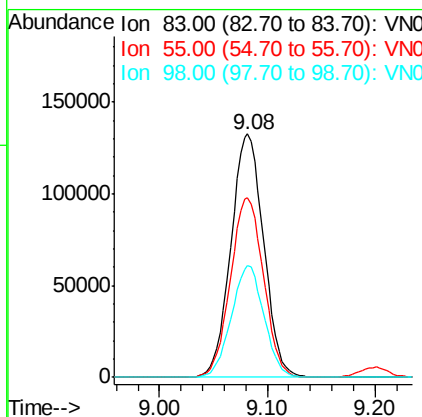
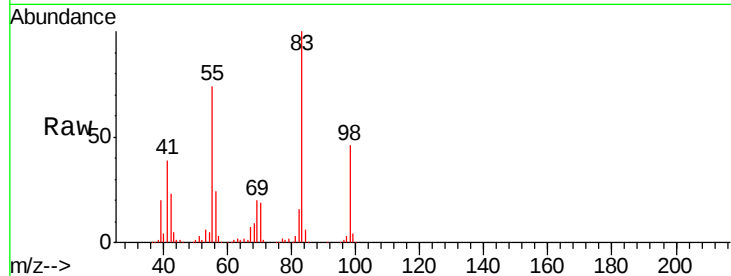
#39
Methylcyclohexane
Concen: 18.713 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion	Ratio	Resp Lower	Resp Upper
83	100		
55	73.8	61.3	91.9
98	46.1	37.0	55.4

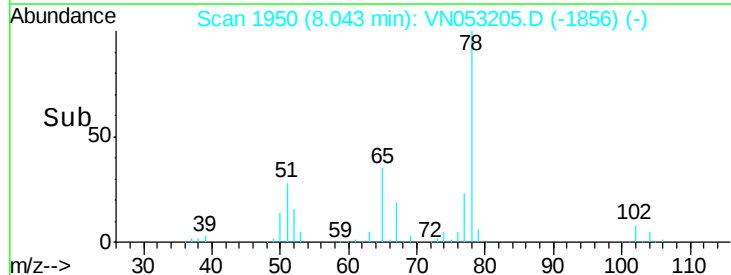
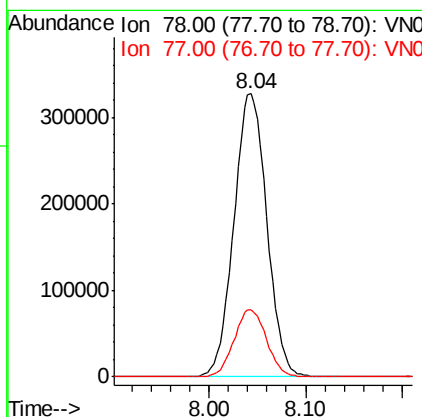
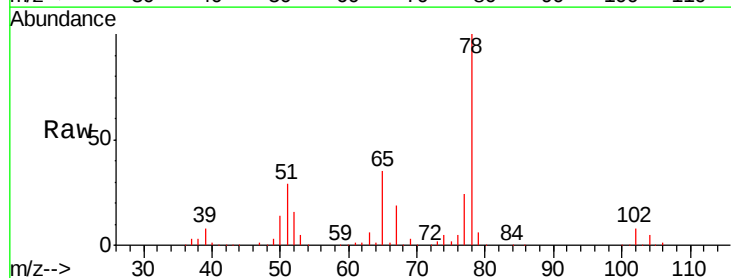
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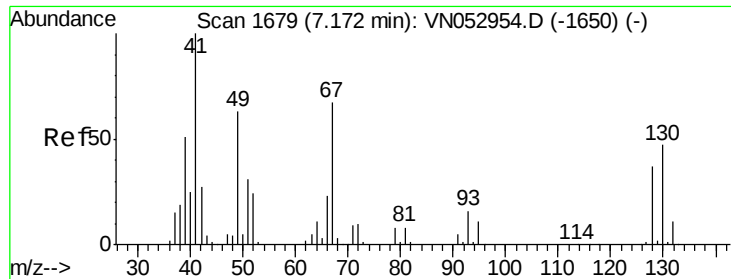
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#40
Benzene
Concen: 21.132 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Resp Lower	Resp Upper
78	100		
77	23.6	18.5	27.7





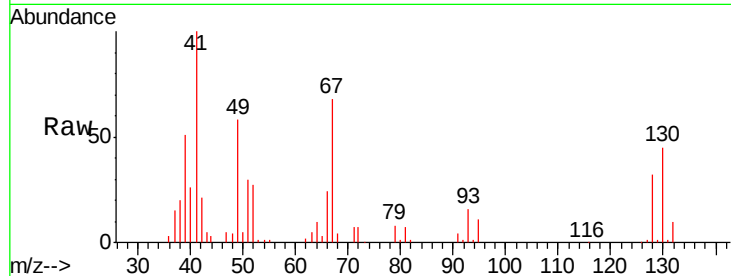
#41
Methacrylonitrile
Concen: 22.726 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

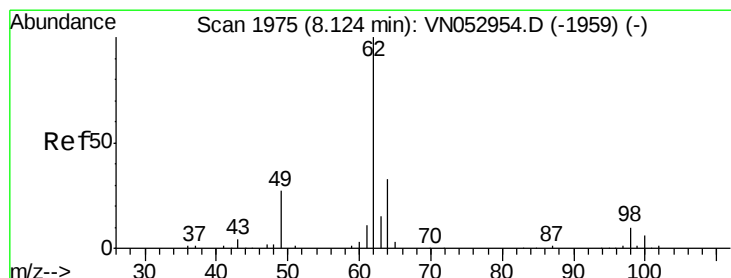
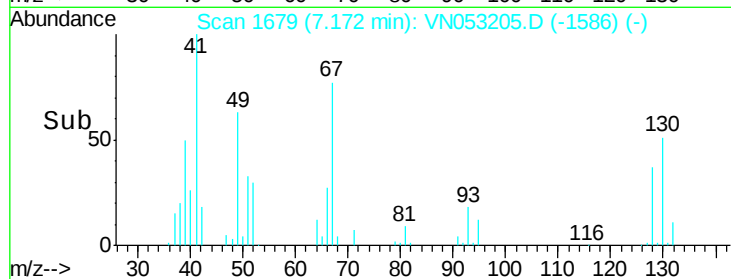
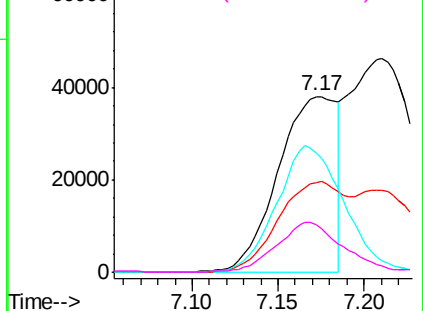
Tgt Ion	Ratio	Lower	Upper
41	100		
39	58.0	48.0	72.0
67	82.9	70.3	105.5
52	32.6	26.9	40.3

Manual Integrations
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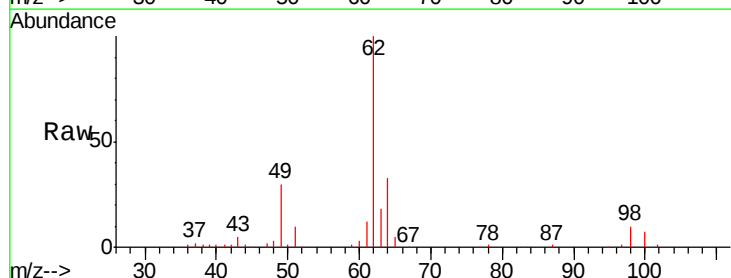


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

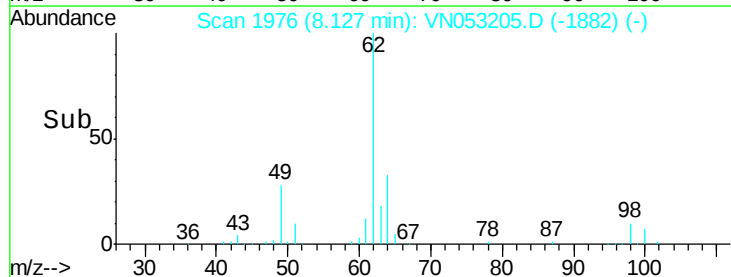
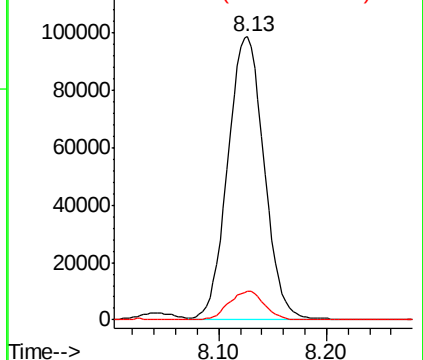


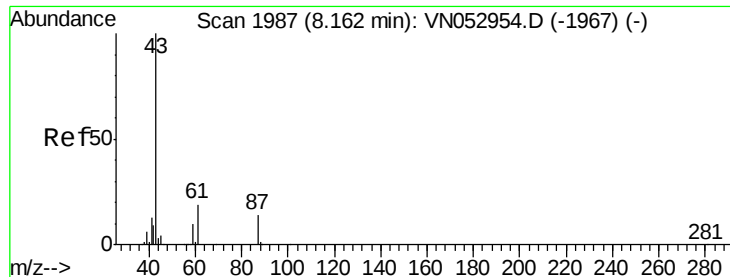
#42
1,2-Dichloroethane
Concen: 21.279 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	19.0



Abundance Ion 61.90 (61.60 to 62.60): VNC
Ion 97.90 (97.60 to 98.60): VNC





#43

Isopropyl Acetate

Concen: 20.515 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

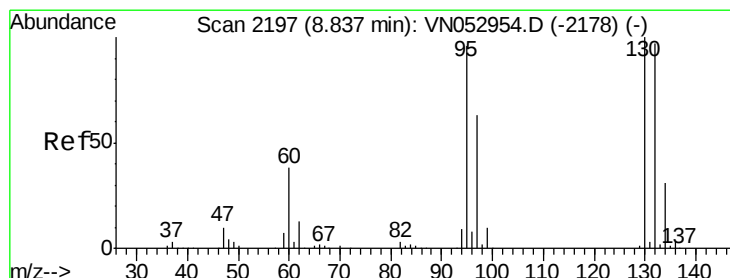
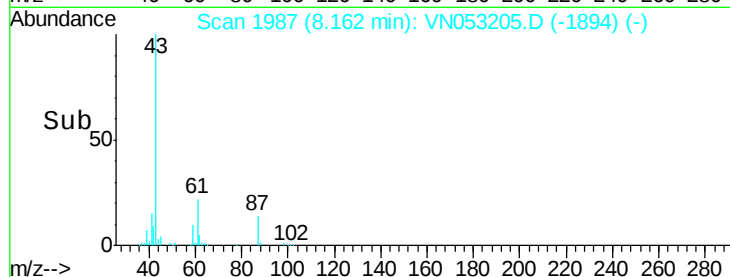
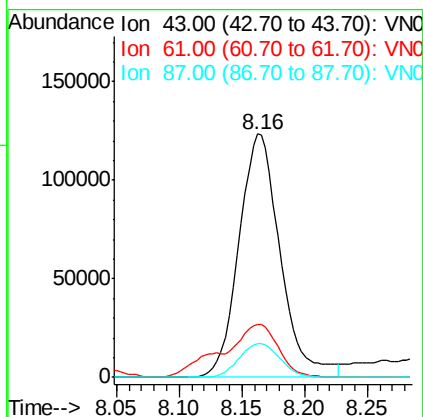
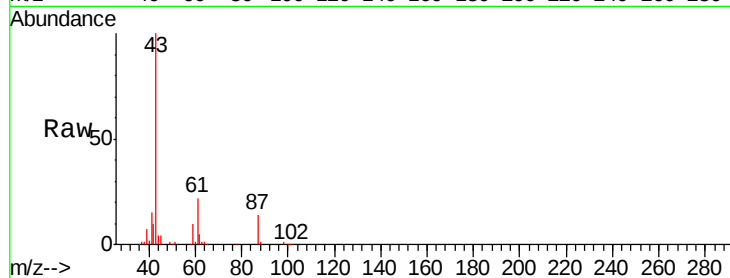
ClientSampleId :

VN1227WBS01

Tgt Ion:	43	Resp:	281243
Ion	Ratio	Lower	Upper
43	100		
61	29.2	22.9	34.3
87	13.8	10.6	15.8

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#44

Trichloroethene

Concen: 19.775 ug/l

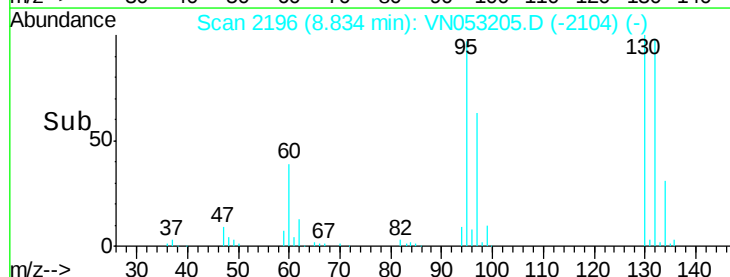
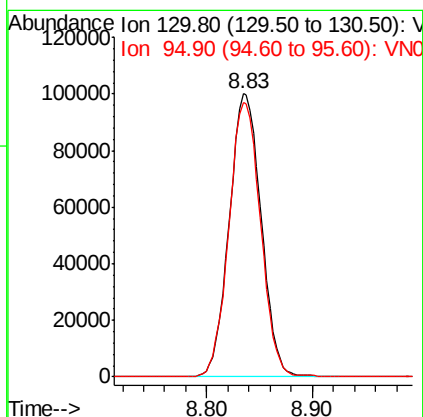
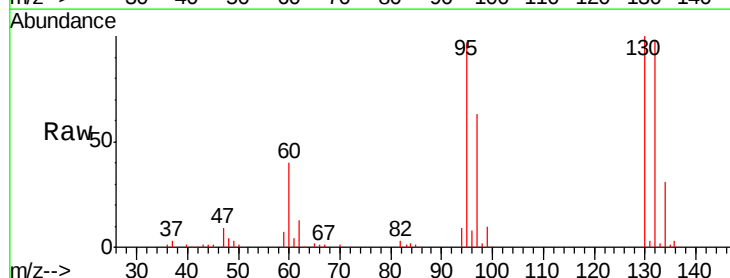
RT: 8.83 min Scan# 2196

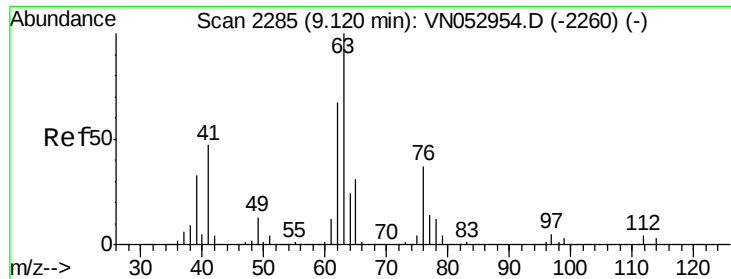
Delta R.T. -0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Tgt Ion:	130	Resp:	209603
Ion	Ratio	Lower	Upper
130	100		
95	96.8	0.0	197.8





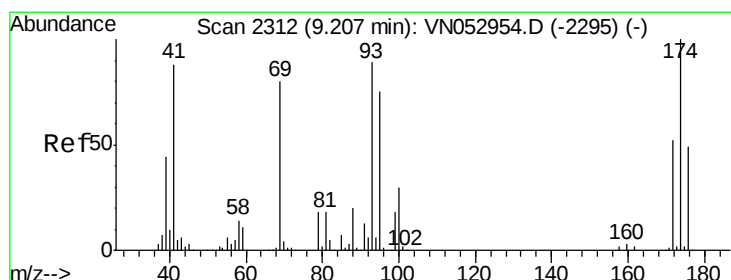
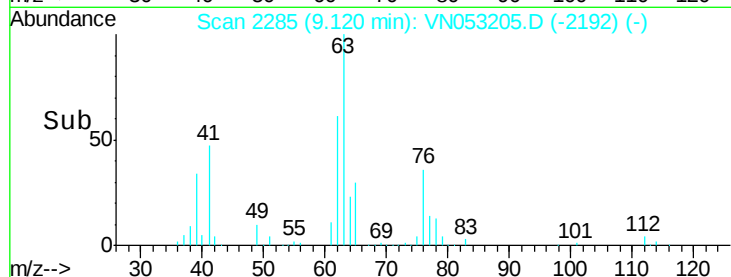
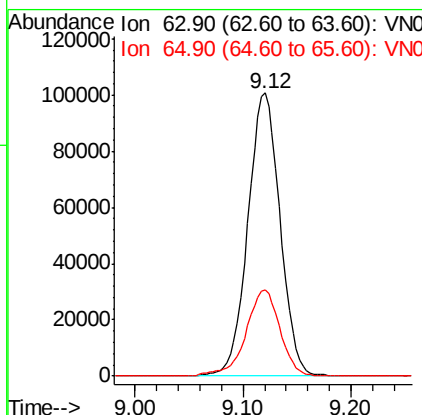
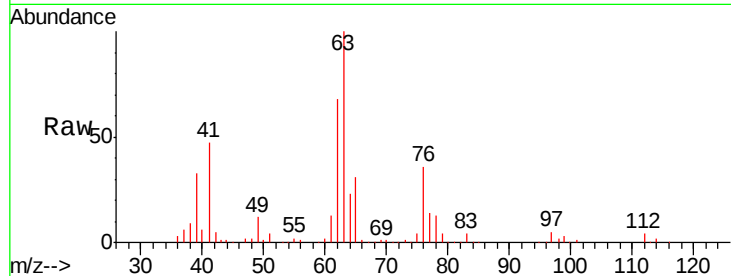
#45
 1,2-Dichloropropane
 Concen: 21.781 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Tgt Ion: 63 Resp: 207910
 Ion Ratio Lower Upper
 63 100
 65 30.5 24.6 37.0

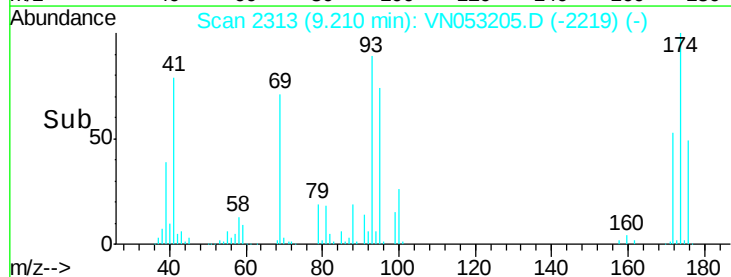
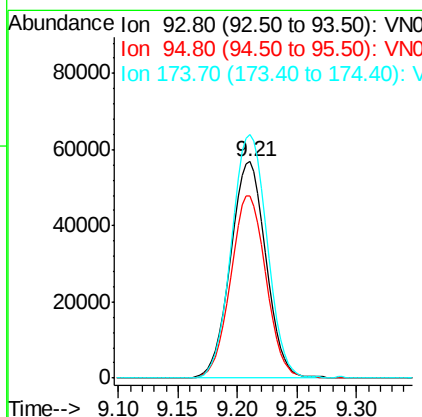
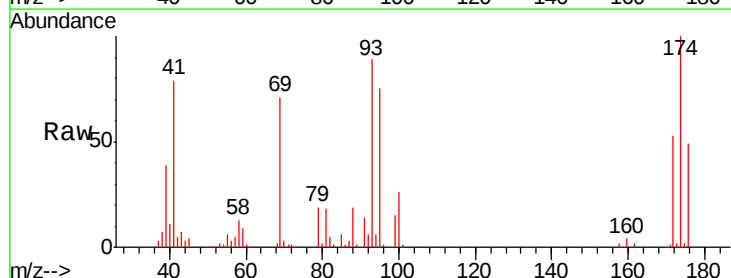
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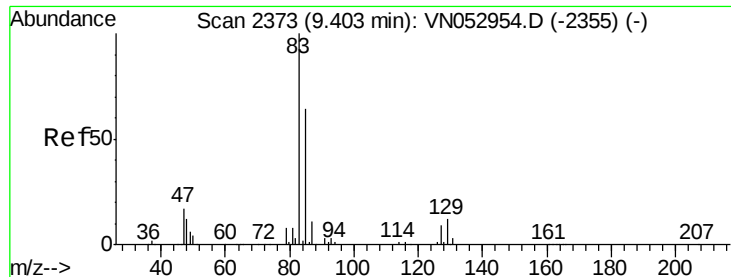
MMDadoda
 12/28/2018 10:14:24 AM



#46
 Dibromomethane
 Concen: 21.151 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Tgt Ion: 93 Resp: 117614
 Ion Ratio Lower Upper
 93 100
 95 83.8 67.8 101.6
 174 113.1 89.0 133.4





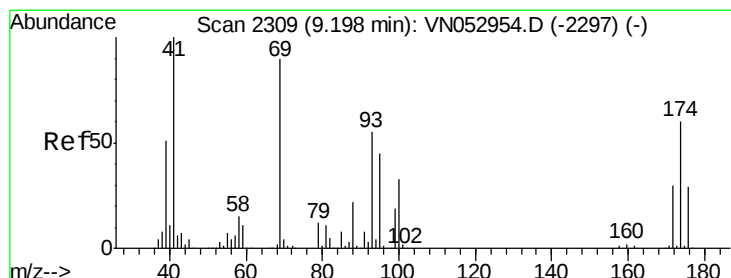
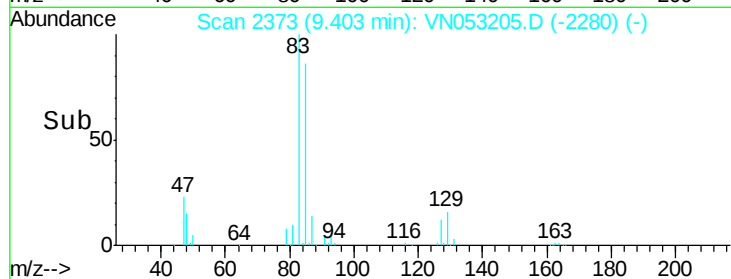
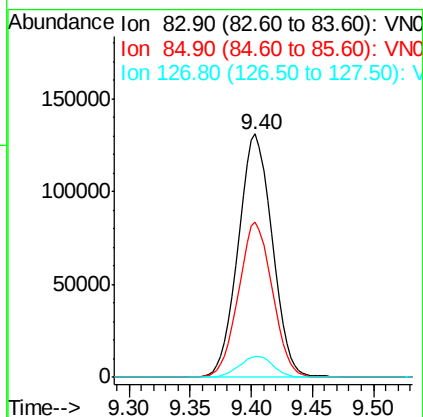
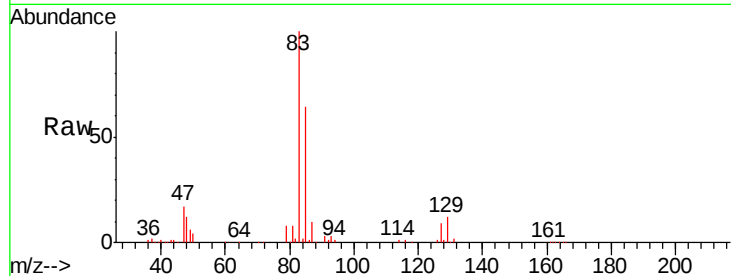
#47
Bromodichloromethane
Concen: 21.377 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.6	77.4
127	8.8	7.1	10.7

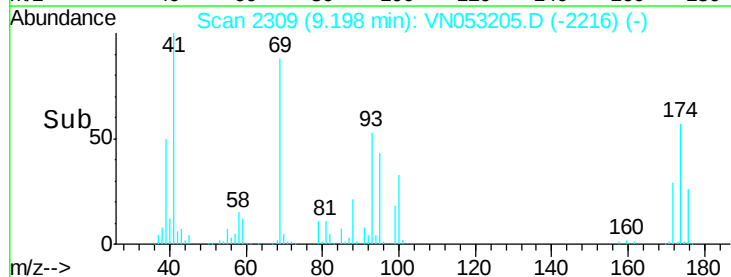
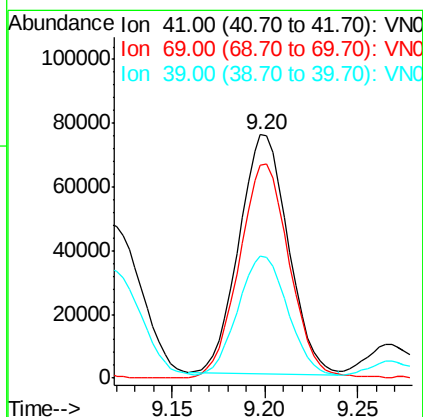
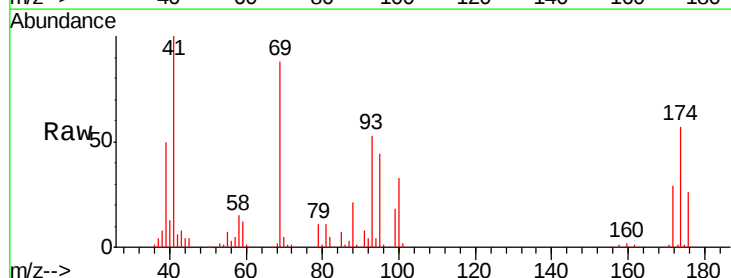
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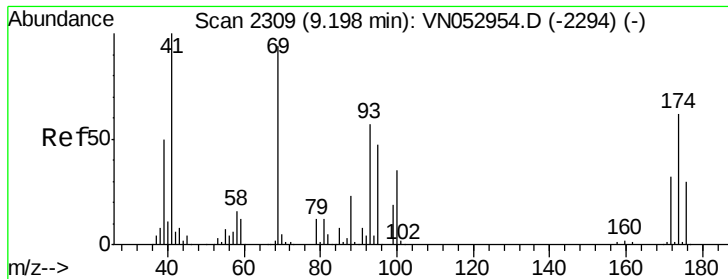
MMDadoda
12/28/2018 10:14:24 AM



#48
Methyl methacrylate
Concen: 20.778 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Lower	Upper
41	100		
69	91.8	72.2	108.2
39	52.7	41.9	62.9





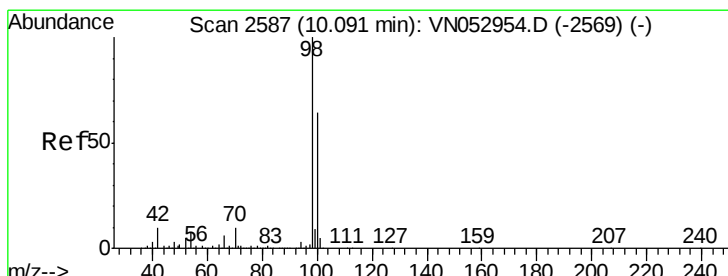
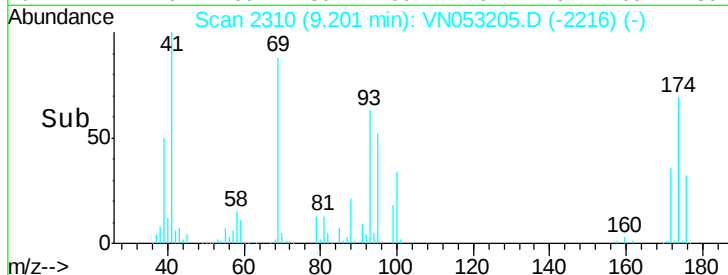
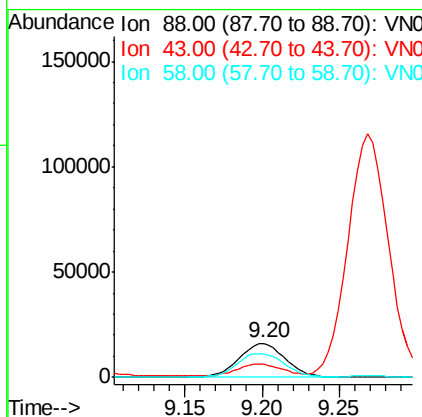
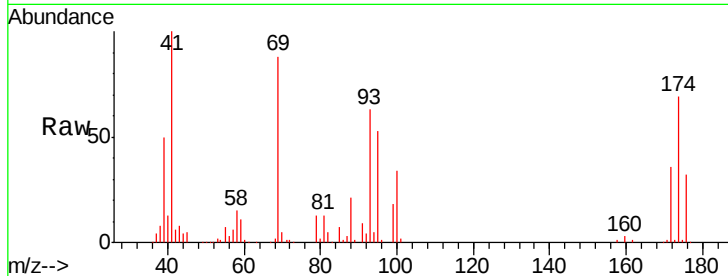
#49
1,4-Dioxane
Concen: 396.124 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion	Ratio	Lower	Upper
88	100		
43	32.9	26.6	40.0
58	73.4	58.4	87.6

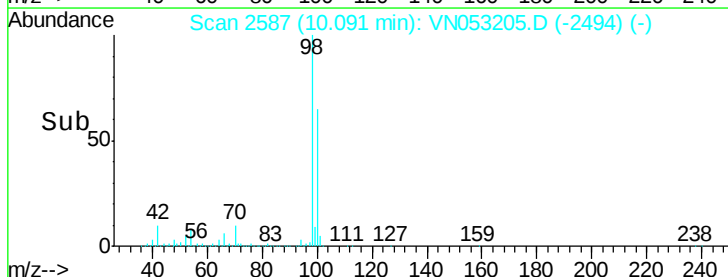
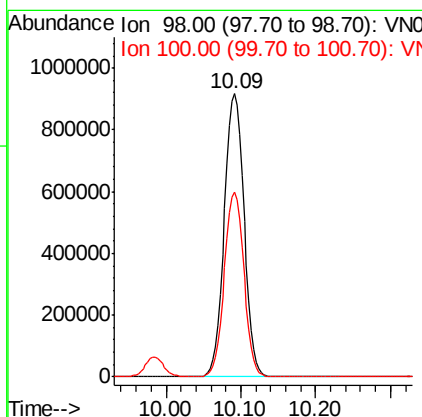
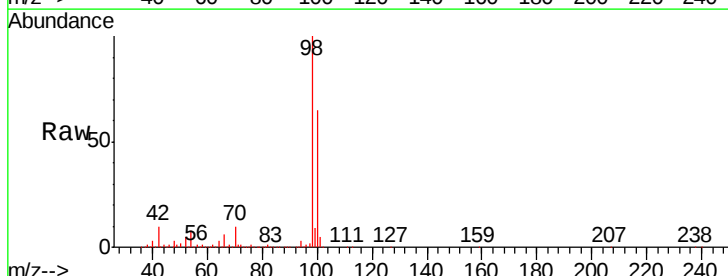
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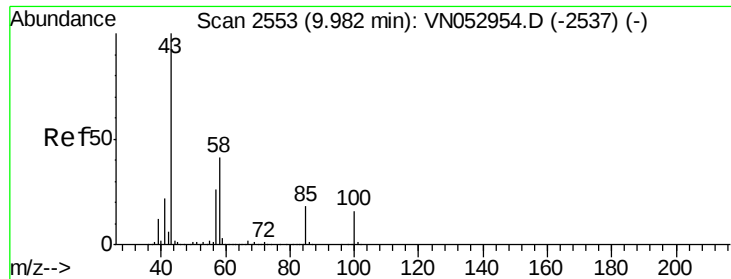
MMDadoda
12/28/2018 10:14:24 AM



#50
Toluene-d8
Concen: 396.124 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.6	77.4





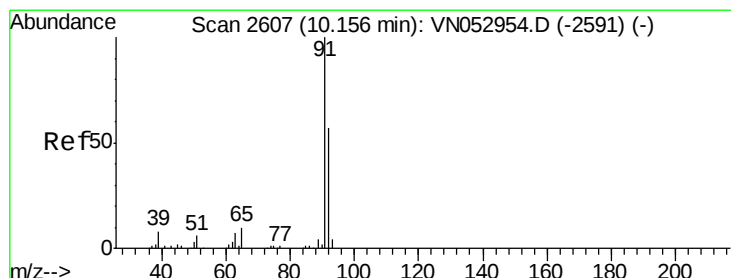
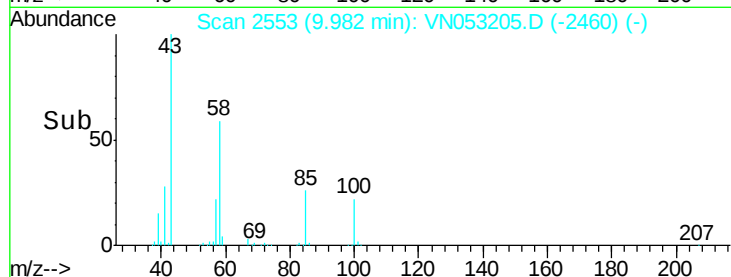
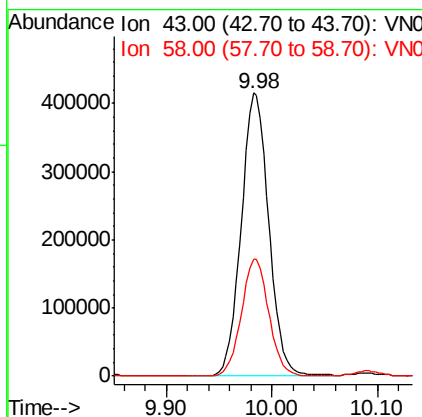
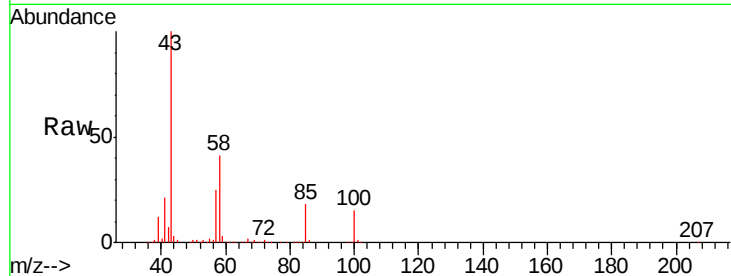
#51
 4-Methyl-2-Pentanone
 Concen: 112.939 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Tgt Ion: 43 Resp: 752238
 Ion Ratio Lower Upper
 43 100
 58 41.1 32.2 48.4

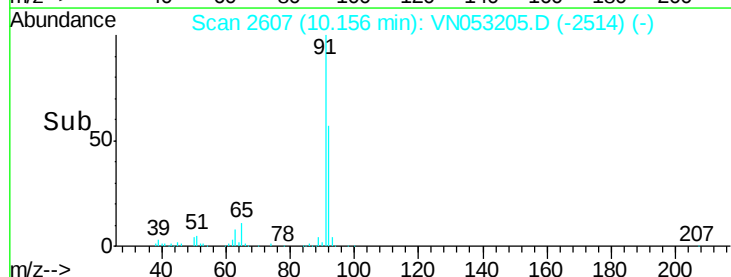
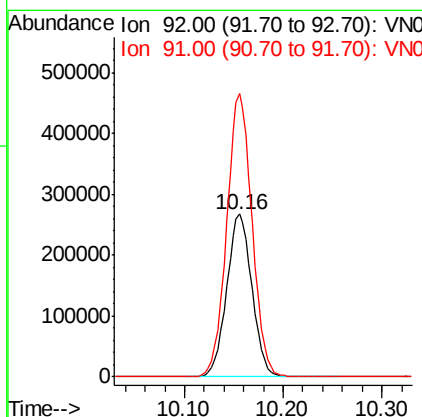
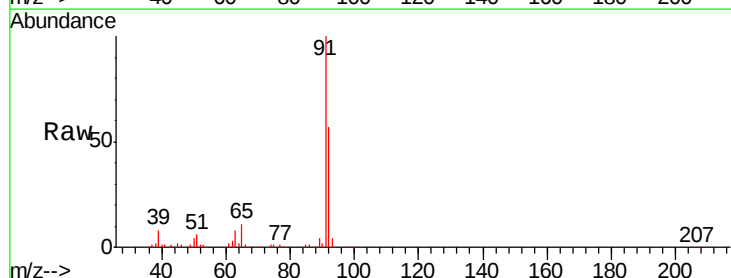
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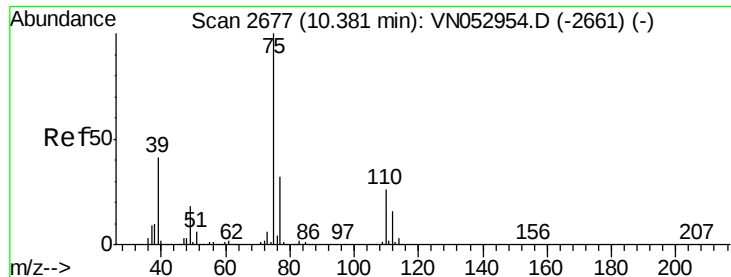
MMDadoda
 12/28/2018 10:14:24 AM



#52
 Toluene
 Concen: 21.089 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Tgt Ion: 92 Resp: 479029
 Ion Ratio Lower Upper
 92 100
 91 174.2 139.8 209.6





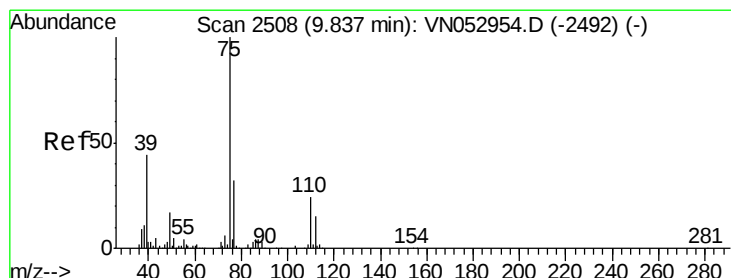
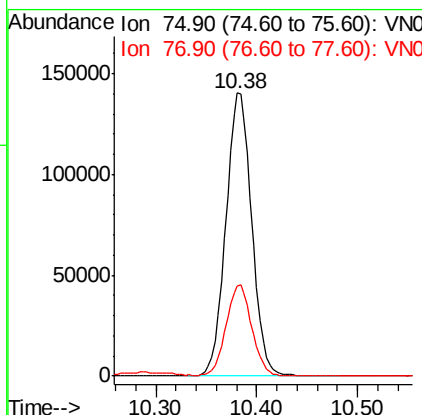
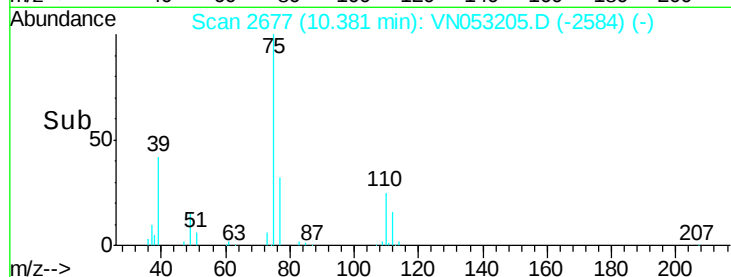
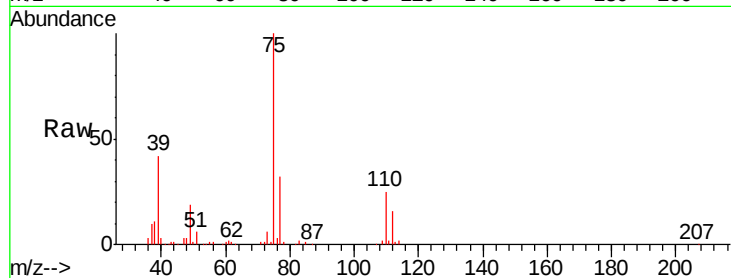
#53
 t-1,3-Dichloropropene
 Concen: 20.189 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Tgt Ion: 75 Resp: 250926
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.6 38.4

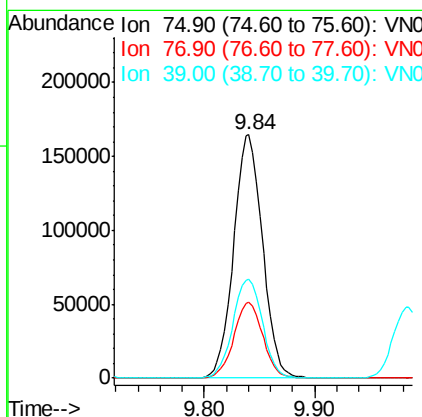
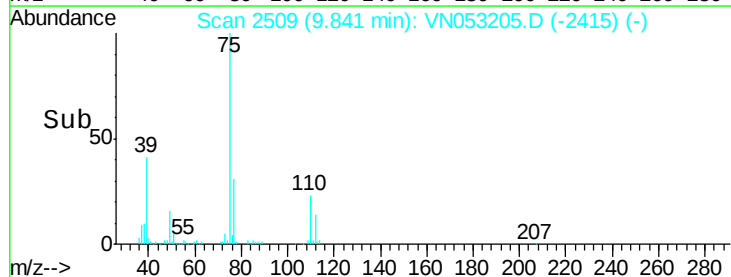
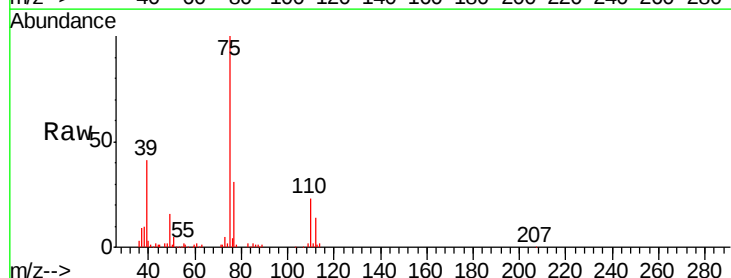
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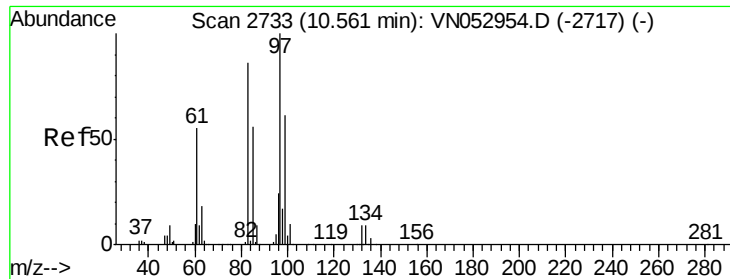
MMDadoda
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#54
 cis-1,3-Dichloropropene
 Concen: 20.985 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Tgt Ion: 75 Resp: 299390
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.8 38.8
 39 40.7 34.8 52.2





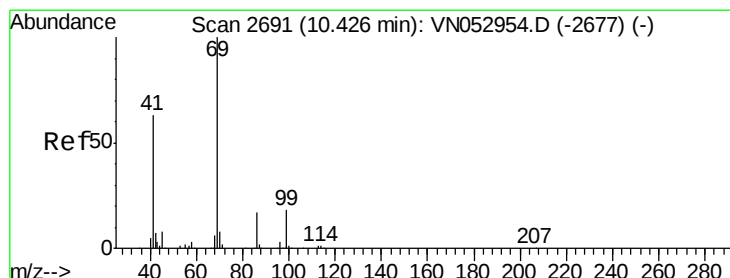
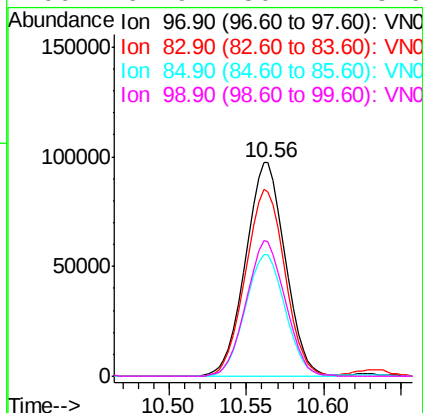
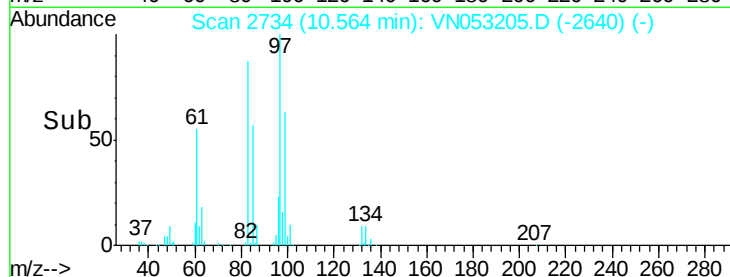
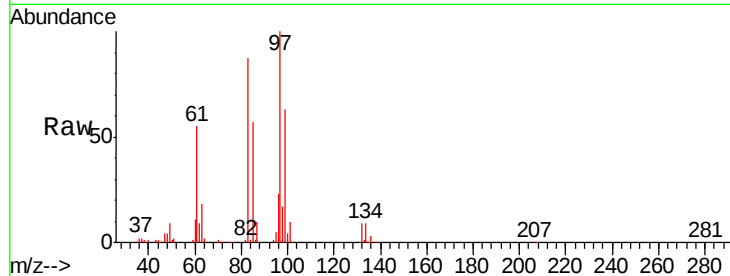
#55
 1,1,2-Trichloroethane
 Concen: 21.985 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.5	70.9	106.3
85	56.7	45.4	68.2
99	62.9	50.4	75.6

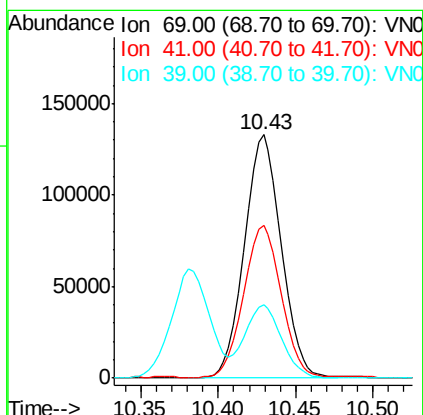
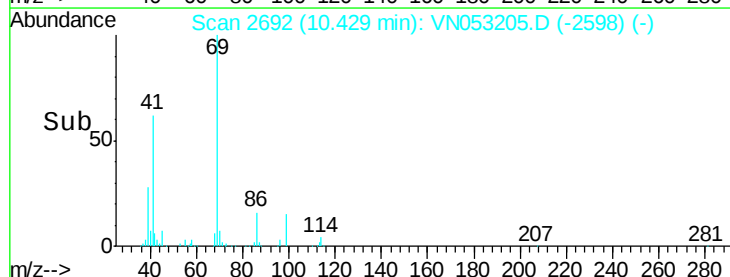
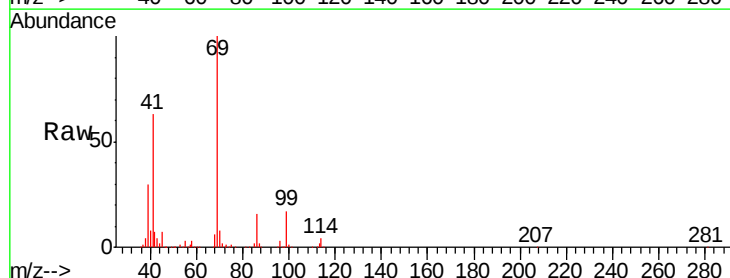
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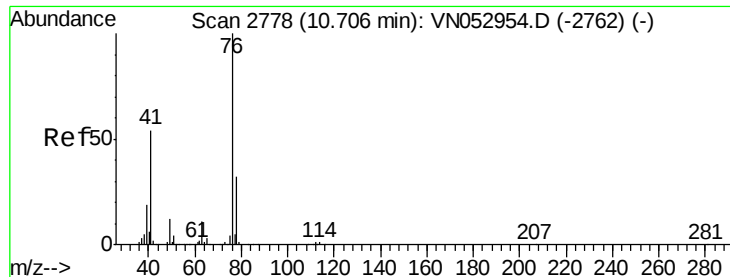
MMDadoda
 12/28/2018 10:14:24 AM



#56
 Ethyl methacrylate
 Concen: 21.044 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Lower	Upper
69	100		
41	63.4	51.7	77.5
39	29.9	24.6	37.0





#57

1,3-Dichloropropane

Concen: 21.724 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 76 Resp: 295207

Ion Ratio Lower Upper

76 100

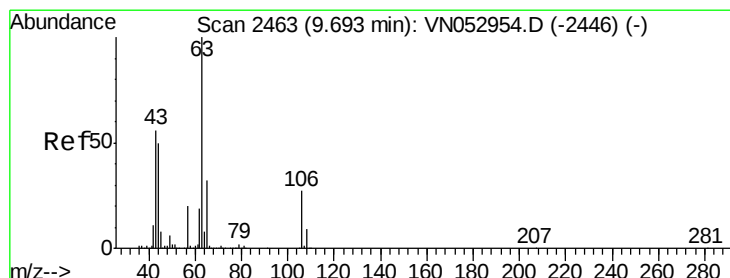
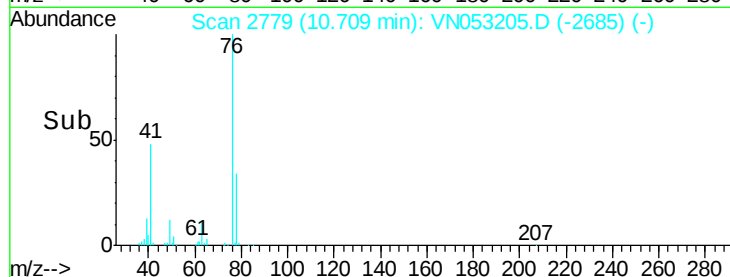
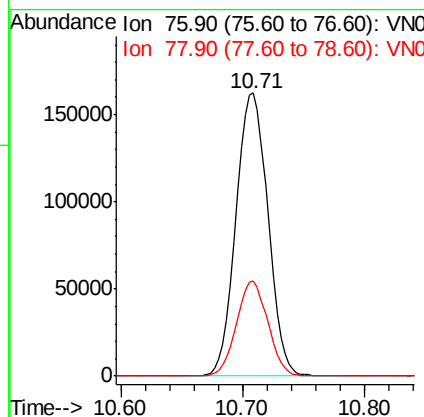
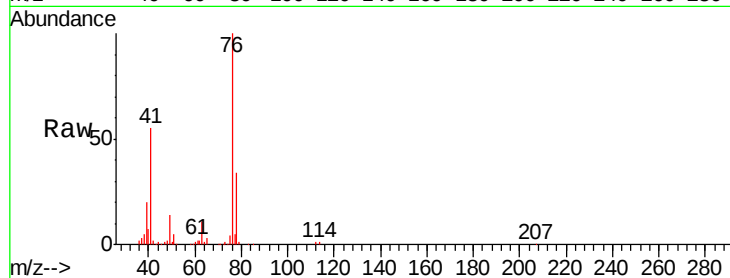
78 33.0 25.8 38.8

Manual Integrations

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MMDadoda

12/28/2018 10:14:24 AM



#58

2-Chloroethyl Vinyl ether

Concen: 107.398 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053205.D

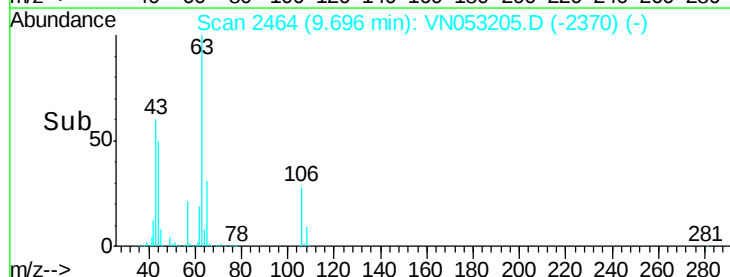
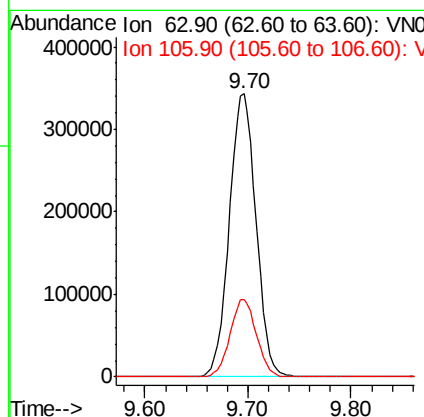
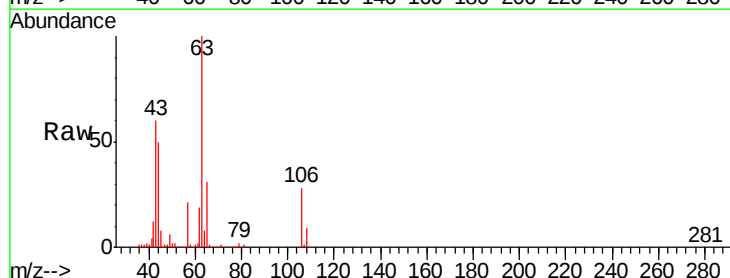
Acq: 27 Dec 2018 11:56

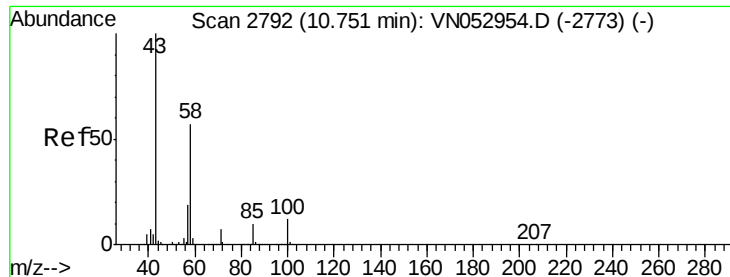
Tgt Ion: 63 Resp: 618423

Ion Ratio Lower Upper

63 100

106 27.2 21.0 31.6





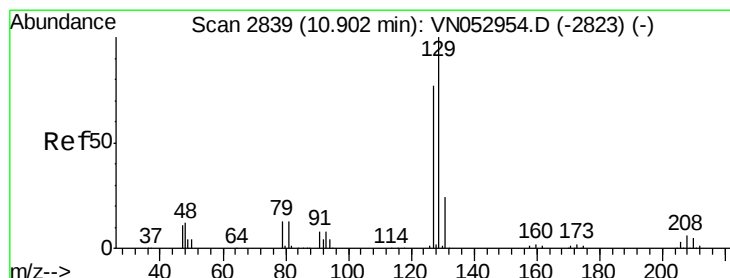
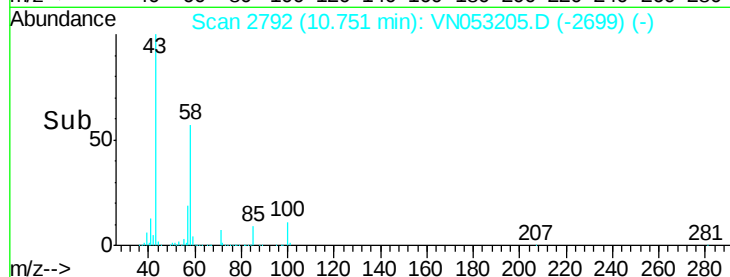
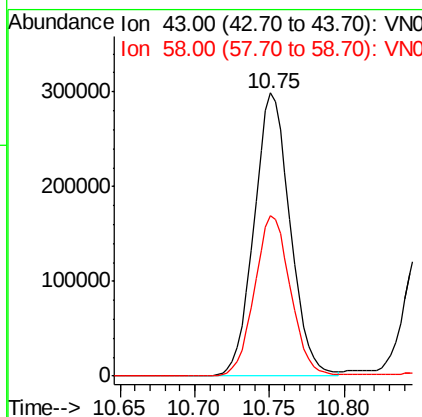
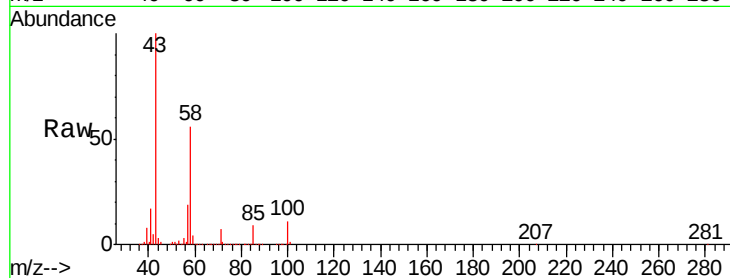
#59
2-Hexanone
Concen: 110.886 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion: 43 Resp: 499698
Ion Ratio Lower Upper
43 100
58 56.8 28.1 84.3

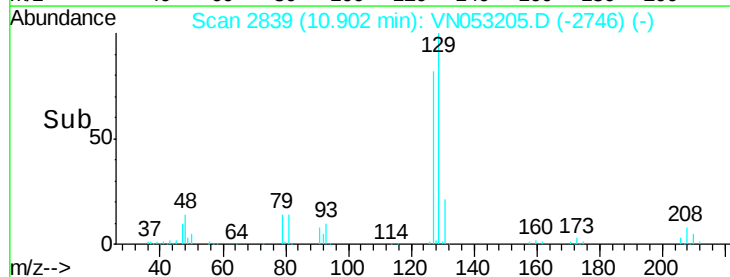
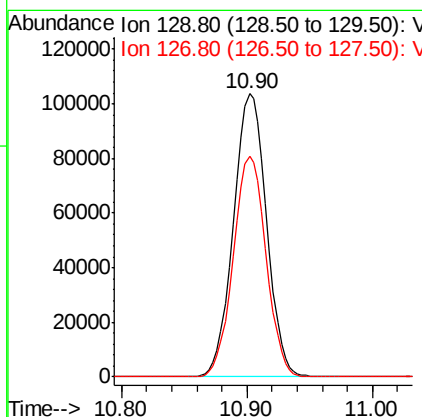
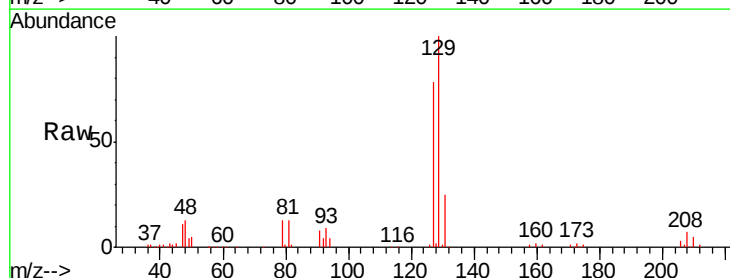
Manual Integrations
APPROVED

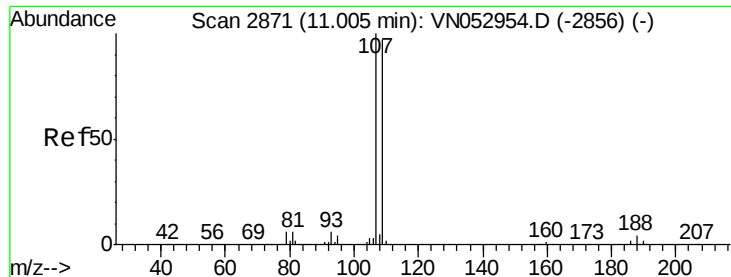
MMDadoda
12/28/2018 10:14:24 AM



#60
Dibromochloromethane
Concen: 20.971 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion: 129 Resp: 190228
Ion Ratio Lower Upper
129 100
127 77.1 38.6 116.0





#61

1,2-Dibromoethane

Concen: 21.081 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 107 Resp: 169664

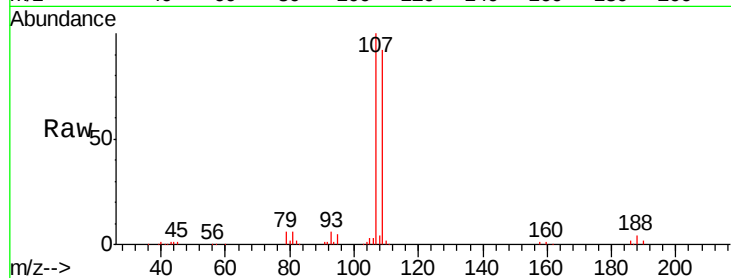
Ion Ratio Lower Upper

107 100

109 93.1 75.4 113.0

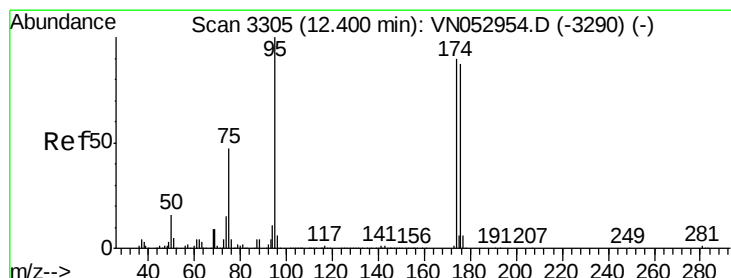
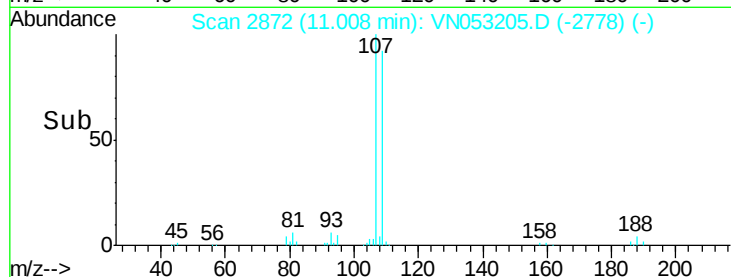
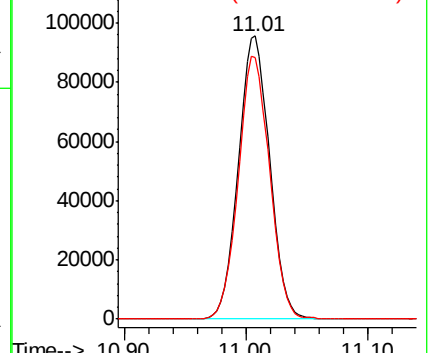
Manual Integrations
APPROVED

MMDadoda
12/28/2018 10:14:24 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 21.081 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

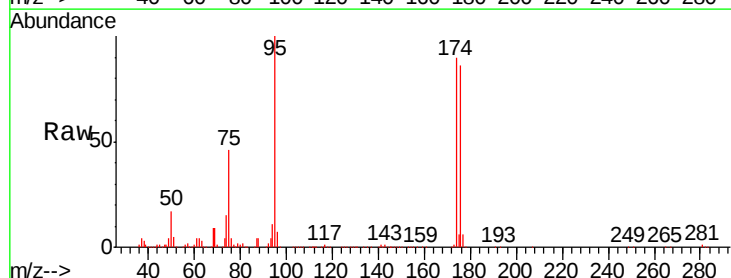
Tgt Ion: 95 Resp: 579758

Ion Ratio Lower Upper

95 100

174 90.1 0.0 178.8

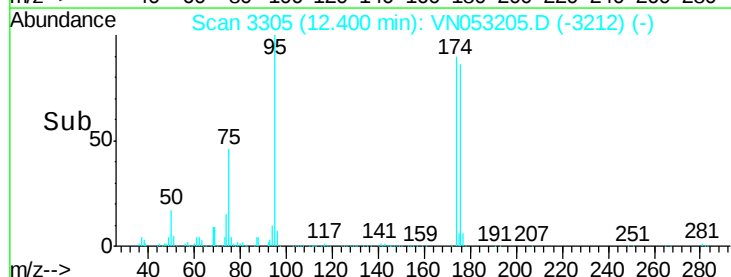
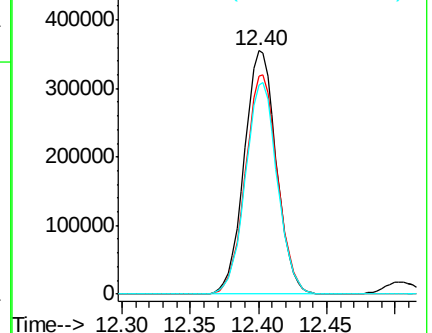
176 86.3 0.0 173.8

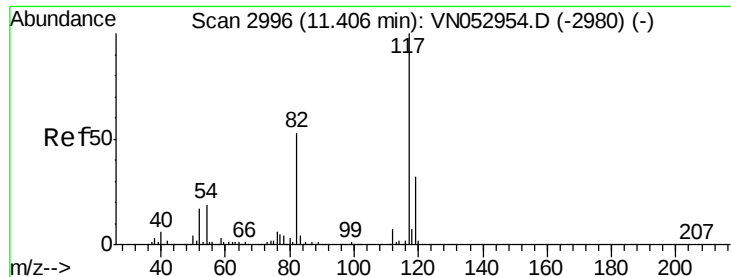


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

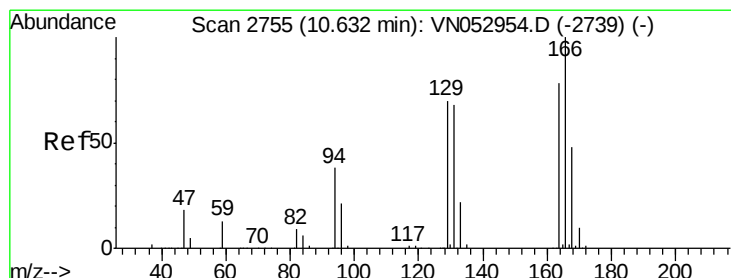
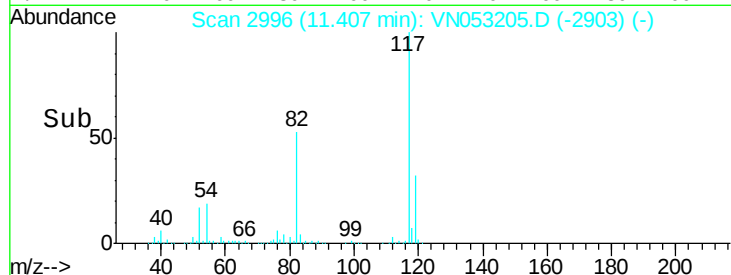
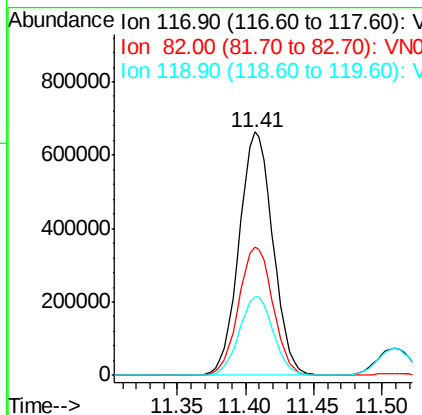
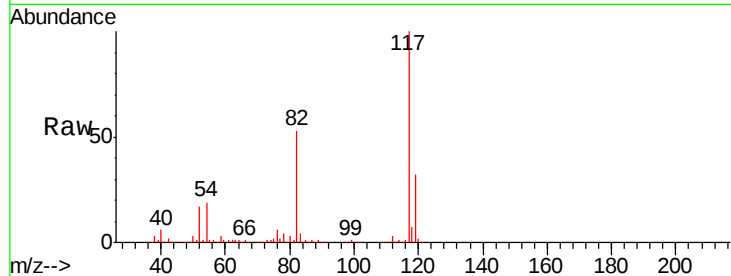
ClientSampleId :

VN1227WBS01

Tgt Ion:	117	Resp:	1140420
Ion	Ratio	Lower	Upper
117	100		
82	52.9	42.8	64.2
119	32.4	25.5	38.3

Manual Integrations
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#64

Tetrachloroethene

Concen: 18.245 ug/l

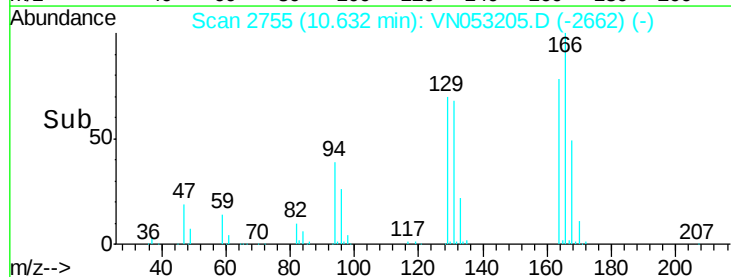
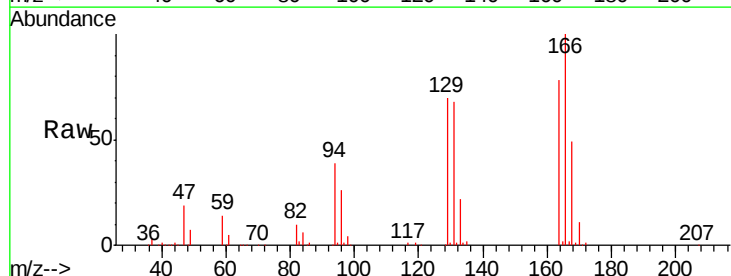
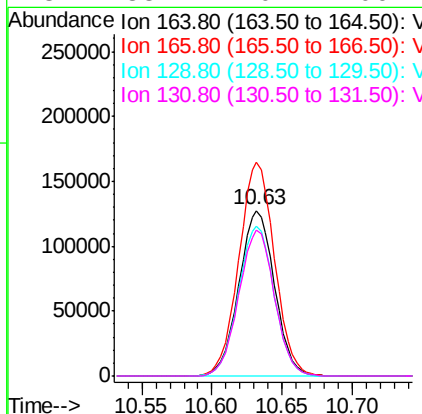
RT: 10.63 min Scan# 2755

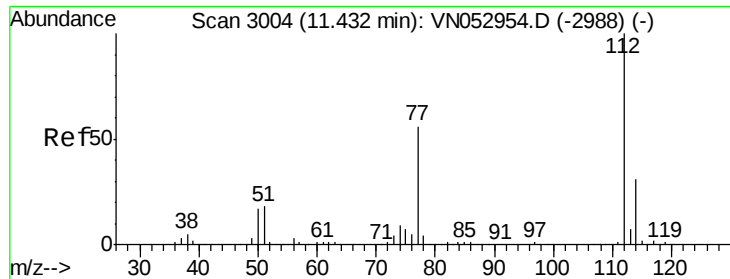
Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Tgt Ion:	164	Resp:	225387
Ion	Ratio	Lower	Upper
164	100		
166	129.0	102.9	154.3
129	90.2	73.7	110.5
131	88.1	70.7	106.1





#65

Chlorobenzene

Concen: 20.939 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion:112 Resp: 529328

Ion Ratio Lower Upper

112 100

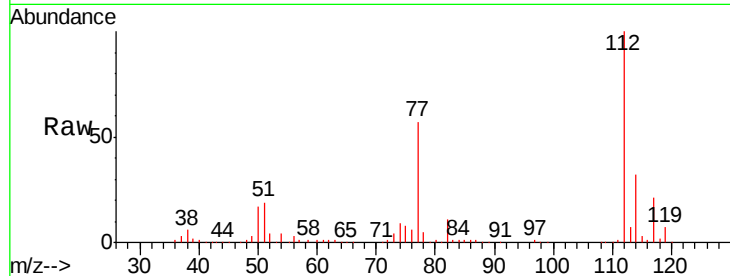
114 32.0 25.5 38.3

Manual Integrations

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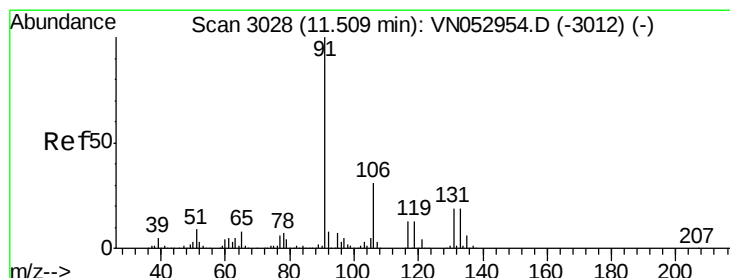
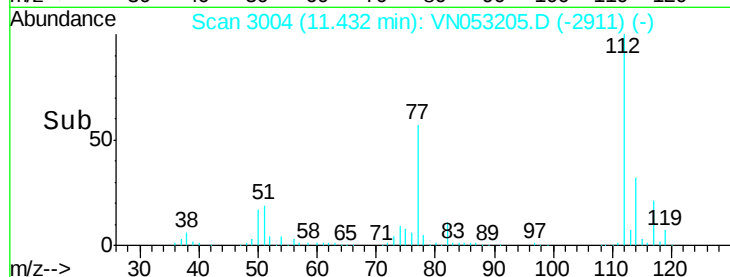
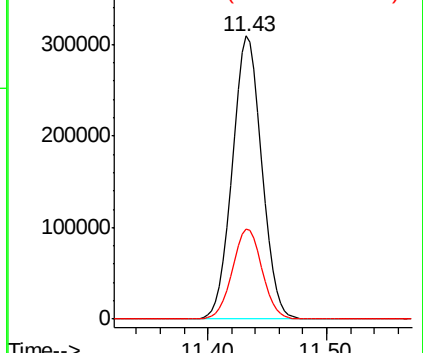
MMDadoda

12/28/2018 10:14:24 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 21.130 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

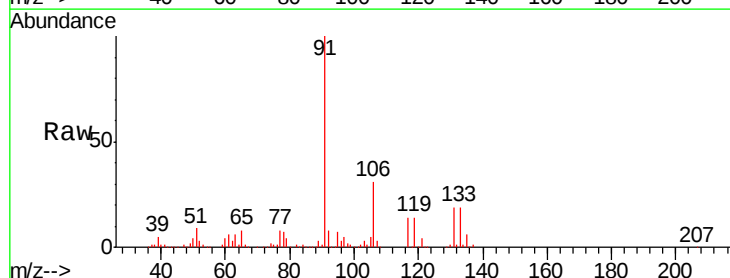
Tgt Ion:131 Resp: 185751

Ion Ratio Lower Upper

131 100

133 96.6 47.6 142.9

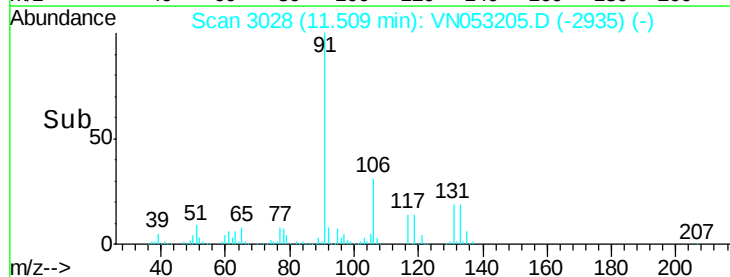
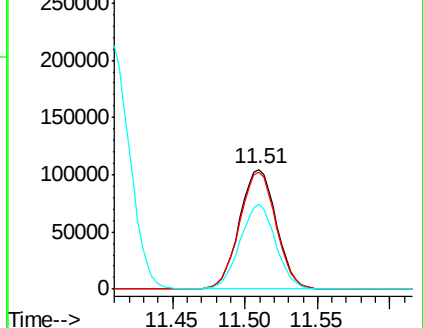
119 68.2 33.3 99.8

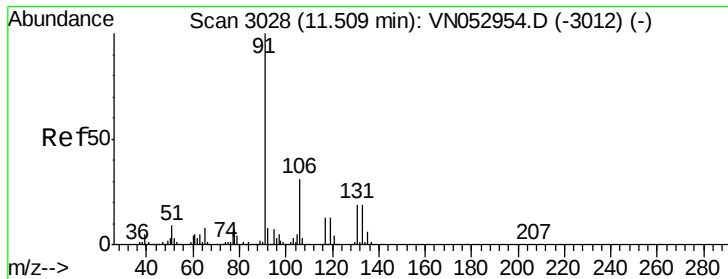


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





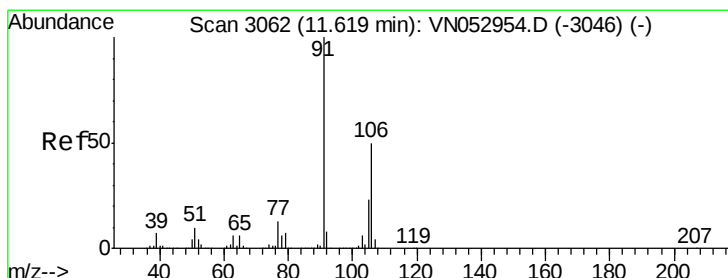
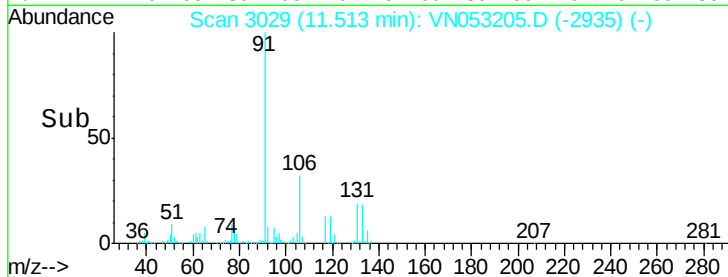
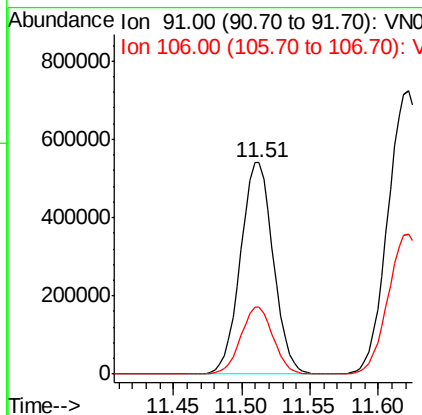
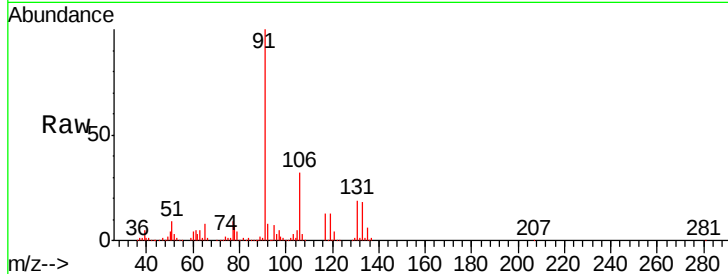
#67
Ethyl Benzene
Concen: 20.673 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion: 91 Resp: 898733
Ion Ratio Lower Upper
91 100
106 31.6 24.9 37.3

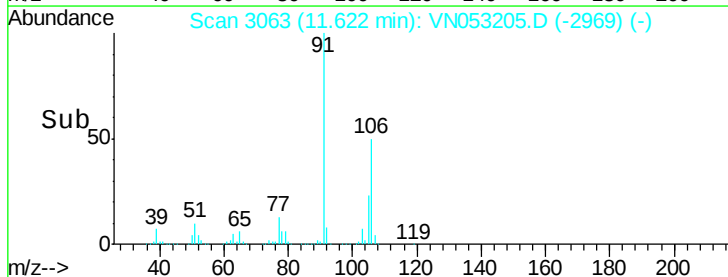
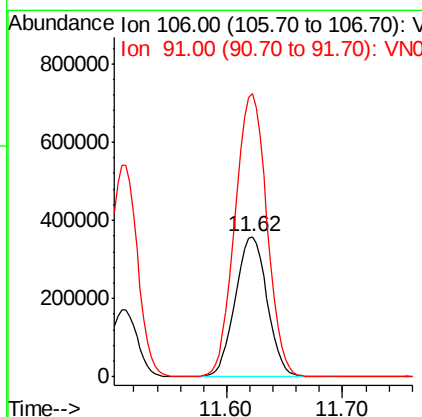
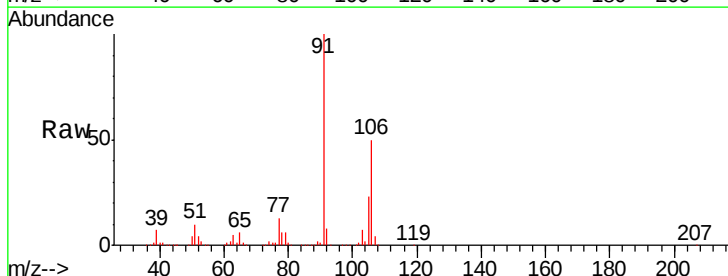
Manual Integrations
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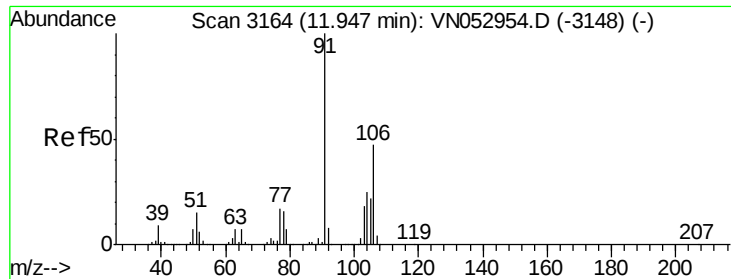
MMDadoda
12/28/2018 10:14:24 AM



#68
m/p-Xylenes
Concen: 41.284 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion: 106 Resp: 682310
Ion Ratio Lower Upper
106 100
91 202.3 162.2 243.4





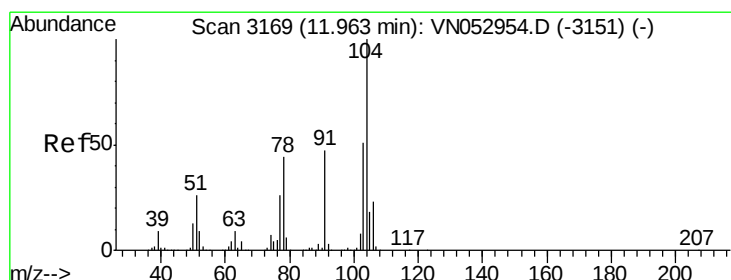
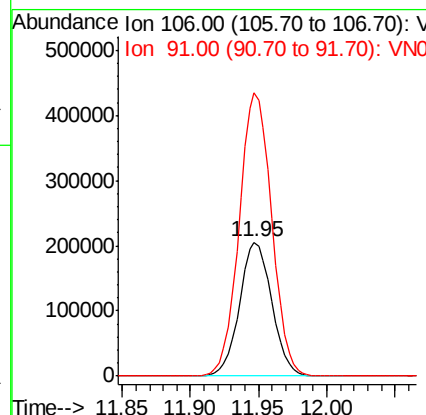
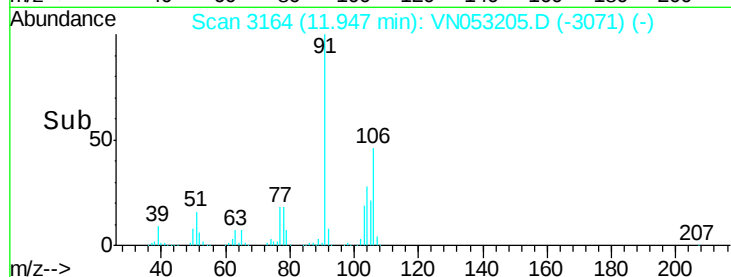
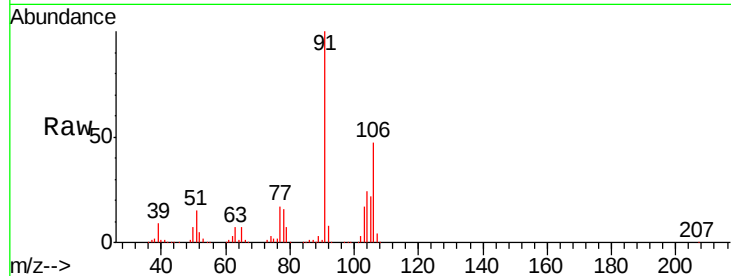
#69
o-Xylene
Concen: 21.210 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion	Ratio	Lower	Upper
106	100		
91	213.4	106.6	319.8

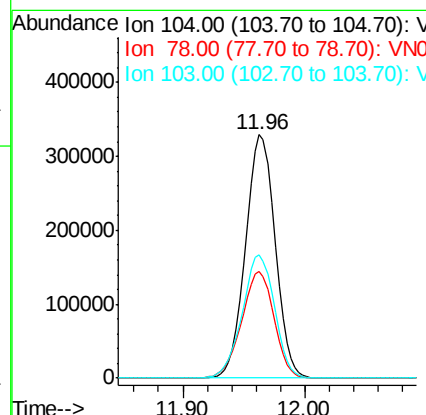
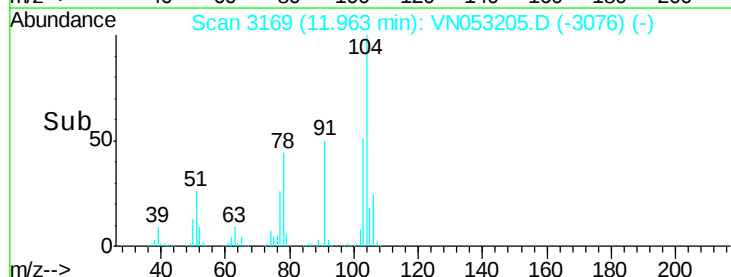
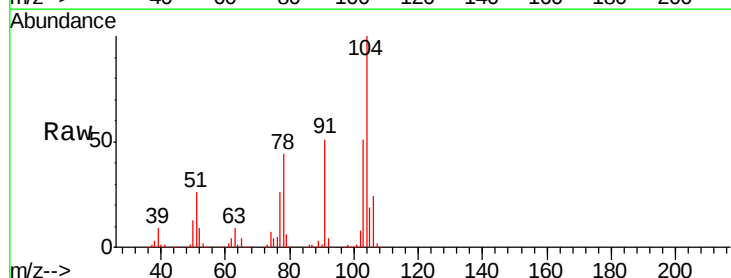
Manual Integrations
APPROVED

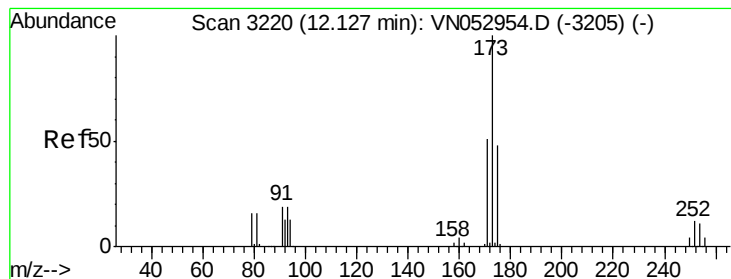
MMDadoda
12/28/2018 10:14:24 AM



#70
Styrene
Concen: 21.248 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.9	58.3
103	55.6	44.3	66.5





#71

Bromoform

Concen: 19.922 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion:173 Resp: 126523

Ion Ratio Lower Upper

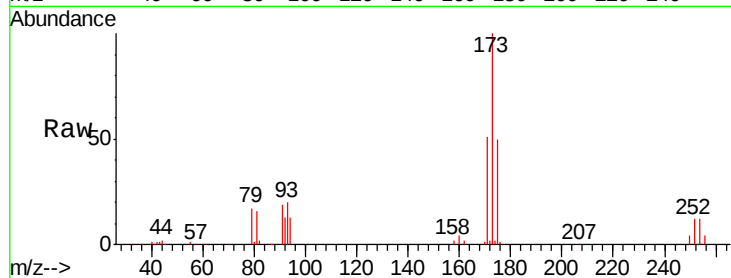
173 100

175 50.0 24.3 72.9

254 0.0 0.1 0.1#

Manual Integrations
APPROVED

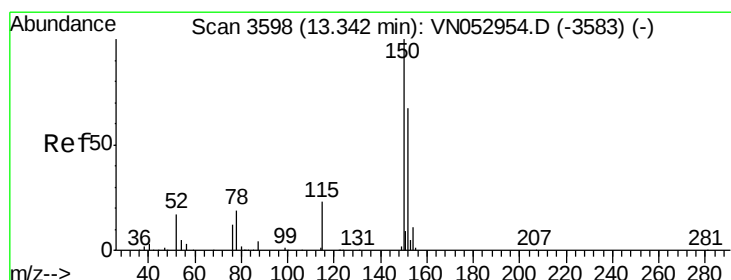
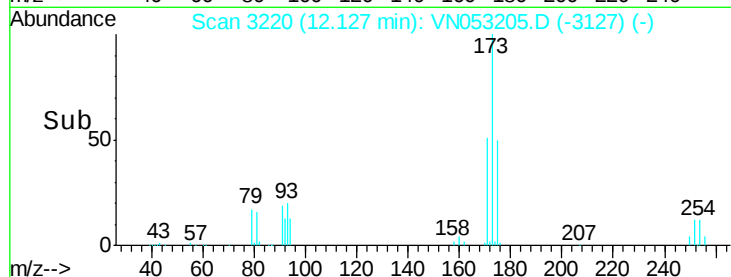
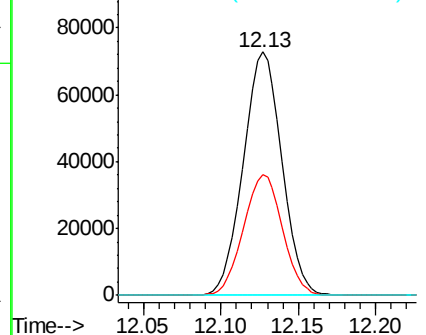
MMDadoda
12/28/2018 10:14:24 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

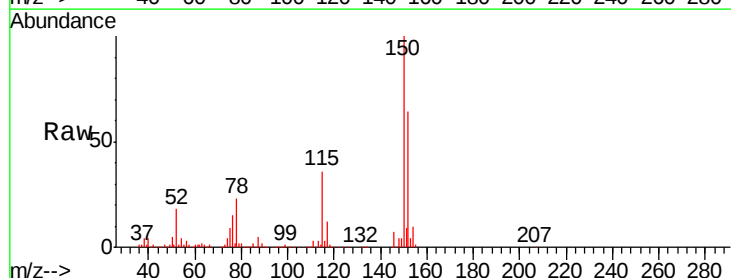
Tgt Ion:152 Resp: 524594

Ion Ratio Lower Upper

152 100

115 56.3 28.3 85.0

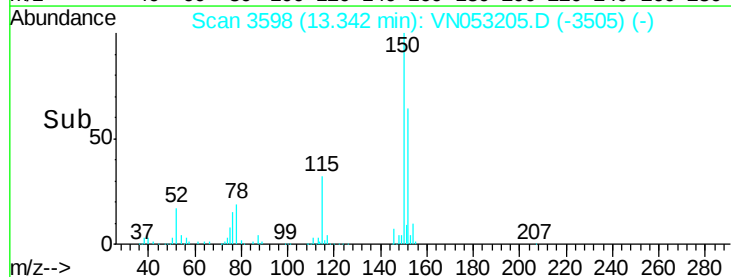
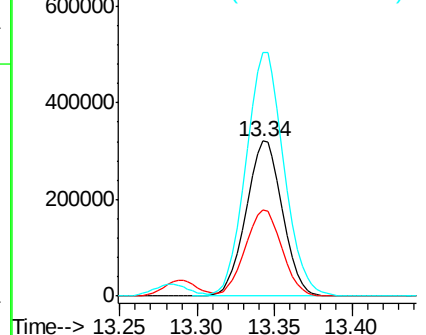
150 164.5 0.0 347.8

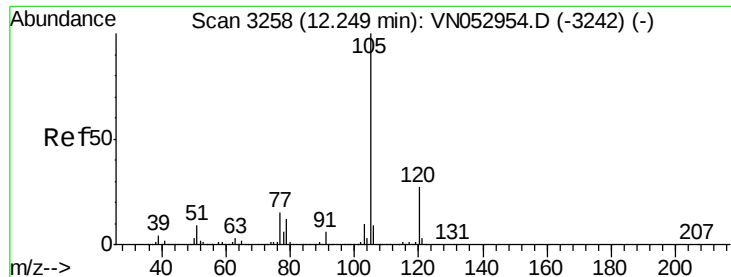


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.535 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 105 Resp: 883916

Ion Ratio Lower Upper

105 100

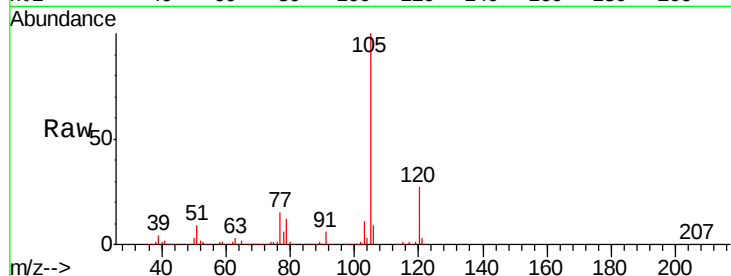
120 26.9 13.3 39.9

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

600000

500000

400000

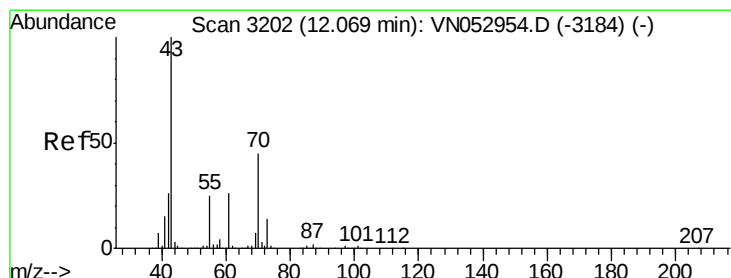
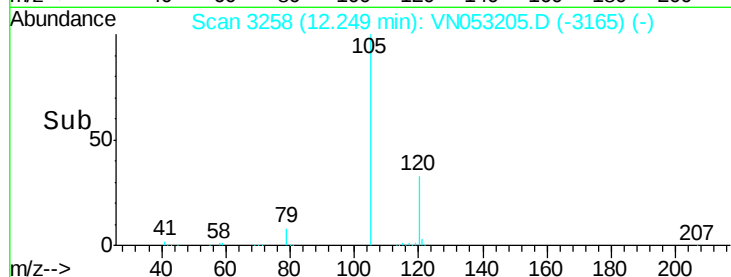
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 21.218 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Tgt Ion: 43 Resp: 241786

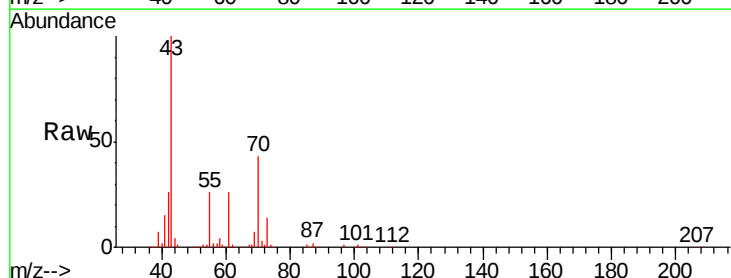
Ion Ratio Lower Upper

43 100

70 43.4 34.2 51.4

55 26.0 20.3 30.5

61 25.4 20.0 30.0



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

12.07

200000

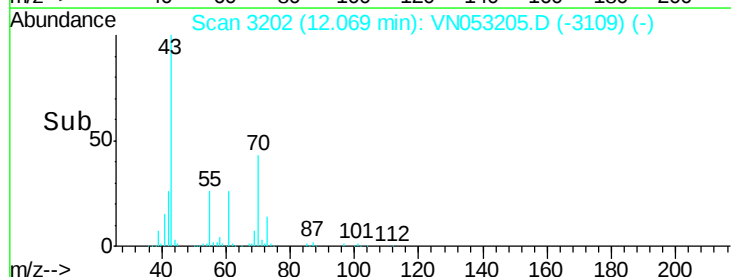
150000

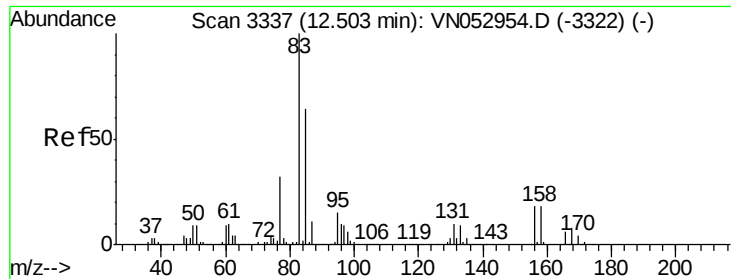
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 24.435 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 83 Resp: 196759
Ion Ratio Lower Upper

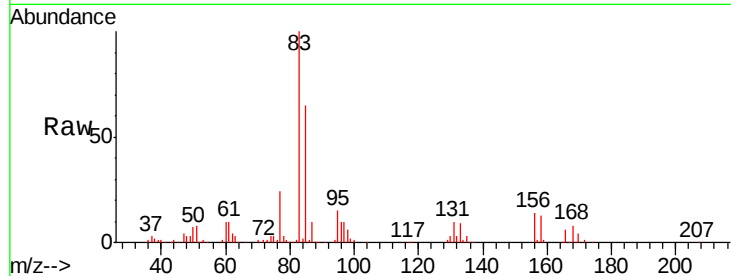
83 100

131 10.3 5.2 15.6

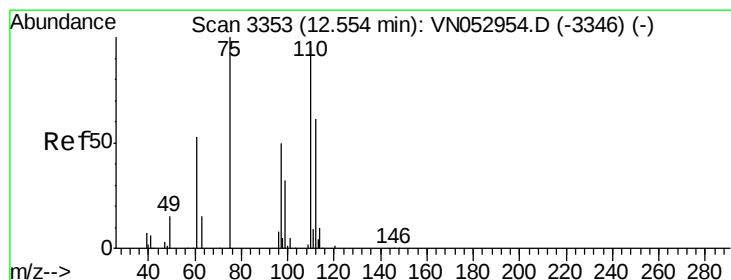
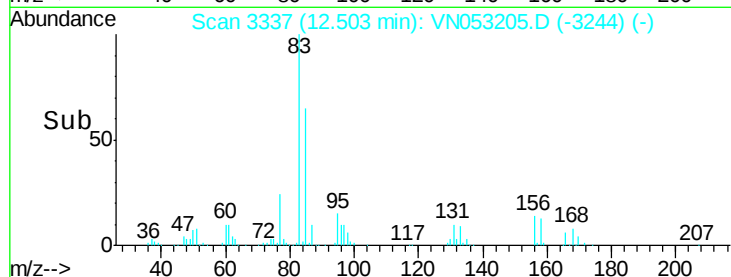
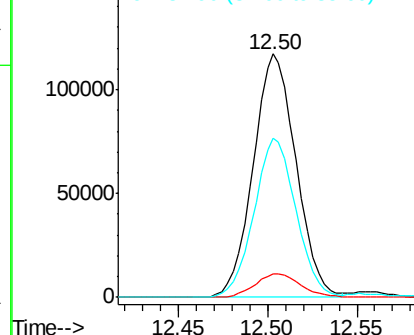
85 63.9 32.4 97.0

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



#76

1,2,3-Trichloropropane

Concen: 18.975 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

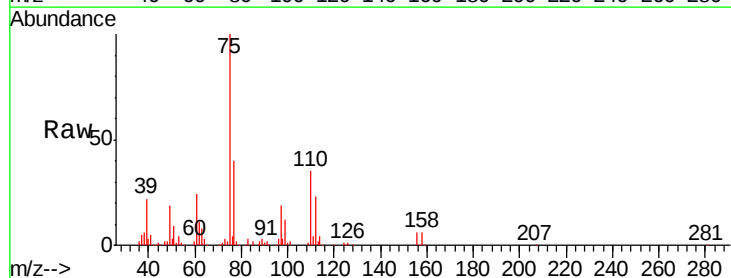
Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

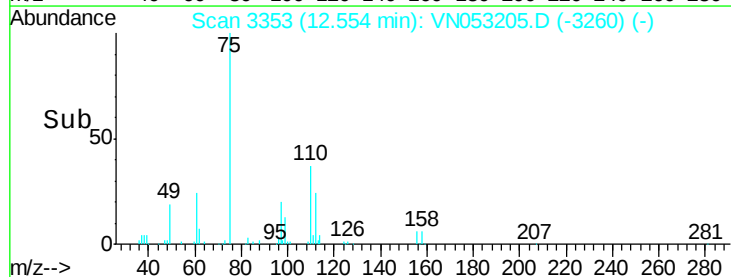
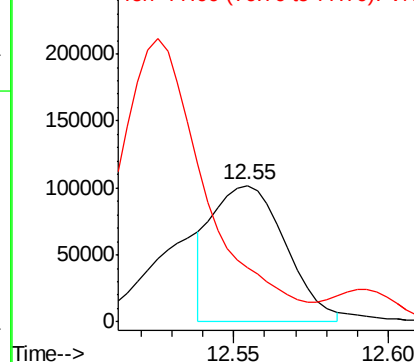
Tgt Ion: 75 Resp: 167569
Ion Ratio Lower Upper

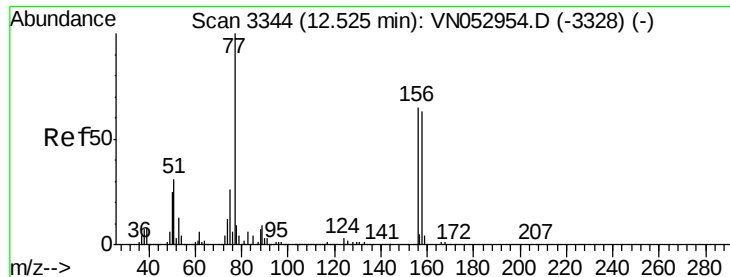
75 100

77 0.0 0.0 0.0



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





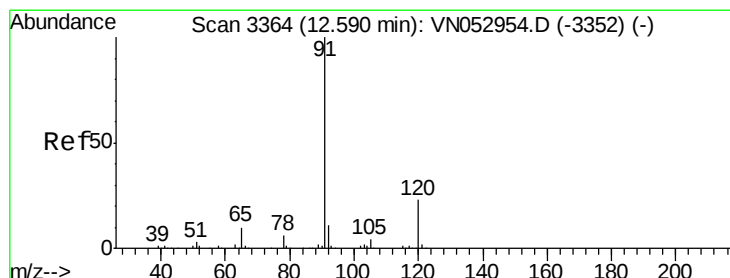
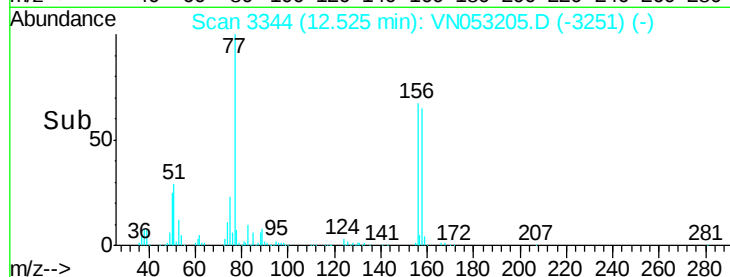
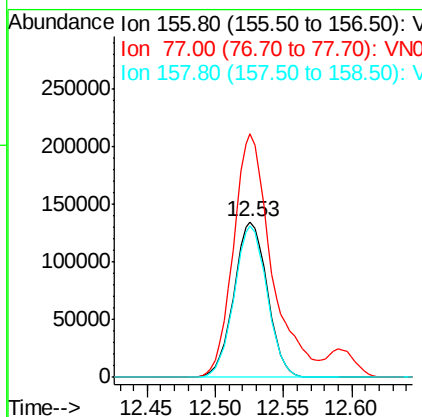
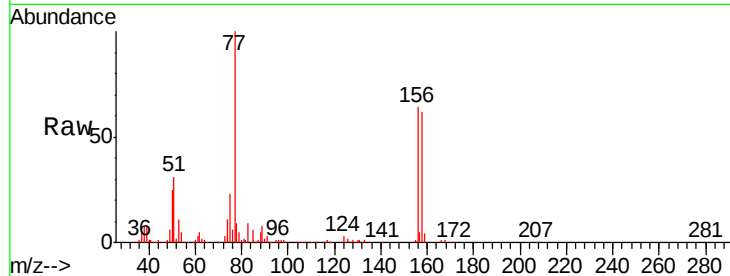
#77
Bromobenzene
Concen: 21.510 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion	Ratio	Lower	Upper
156	100		
77	179.5	91.3	273.8
158	96.1	49.0	147.2

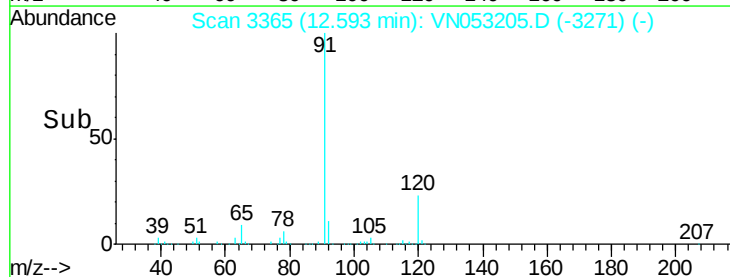
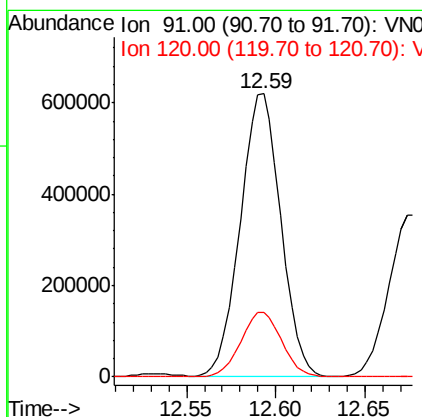
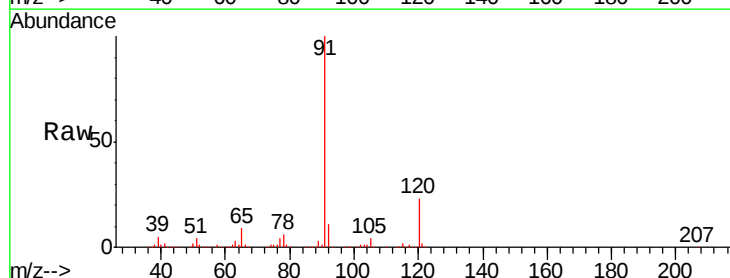
Manual Integrations
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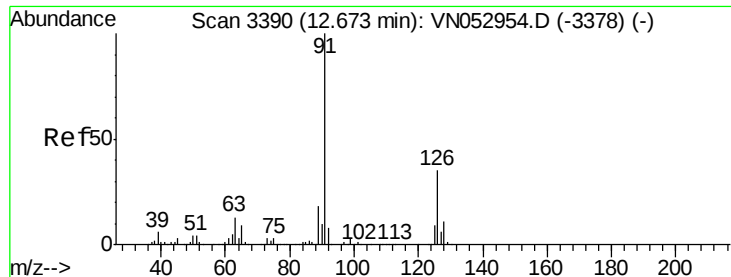
MMDadoda
12/28/2018 10:14:24 AM



#78
n-propylbenzene
Concen: 20.984 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.5





#79

2-Chlorotoluene

Concen: 20.252 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 91 Resp: 586823

Ion Ratio Lower Upper

91 100

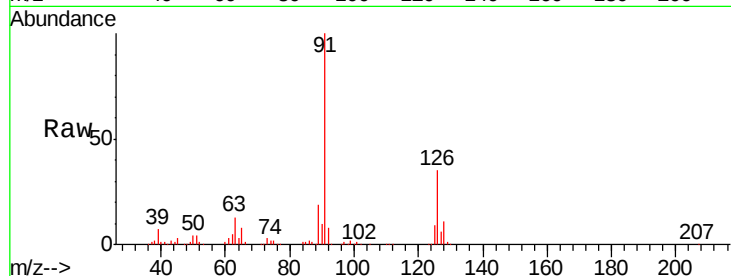
126 35.6 17.4 52.3

Manual Integrations

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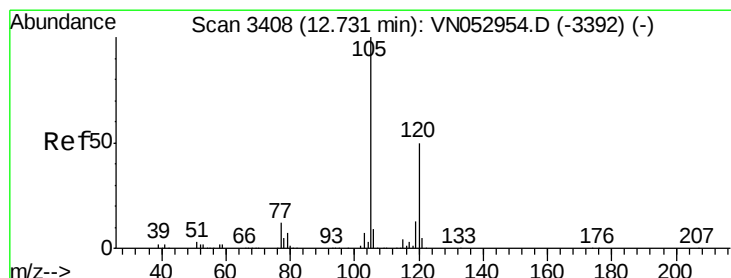
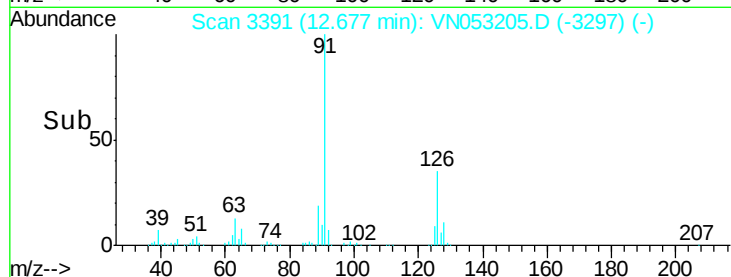
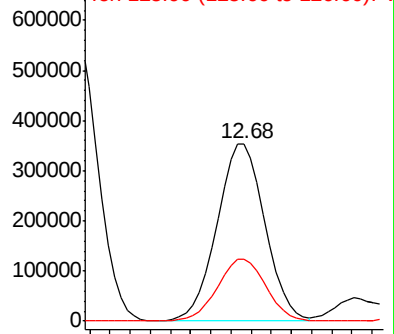
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Abundance Ion 91.00 (90.70 to 91.70): VN053205.D (-3297) (-)

Ion 125.90 (125.60 to 126.60): VN053205.D (-3297) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.834 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053205.D

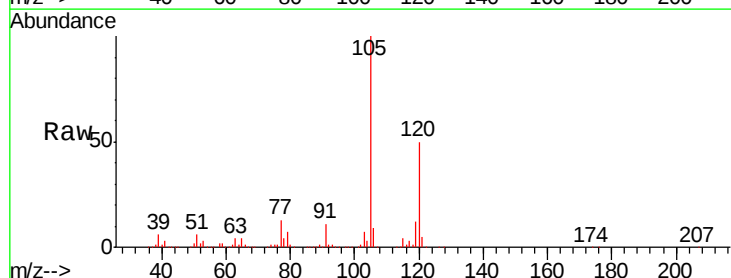
Acq: 27 Dec 2018 11:56

Tgt Ion: 105 Resp: 697009

Ion Ratio Lower Upper

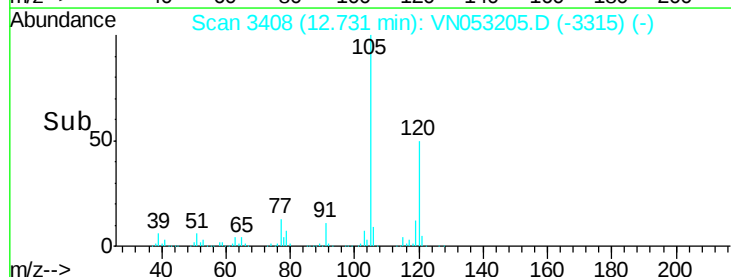
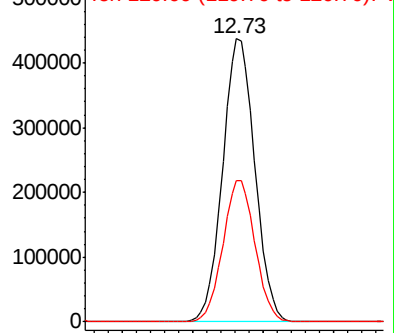
105 100

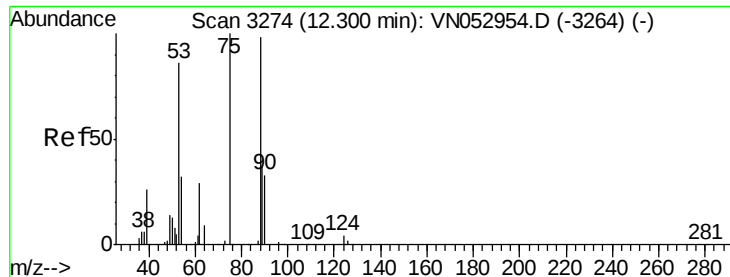
120 50.0 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN053205.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN053205.D (-3315) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.858 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

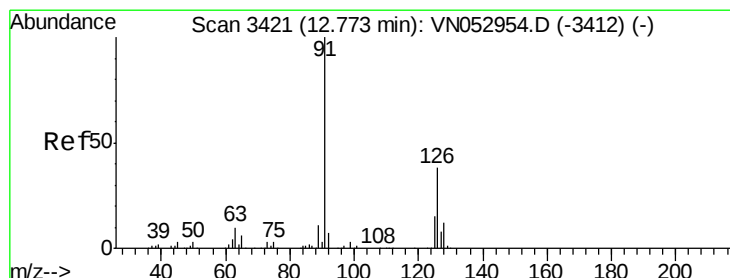
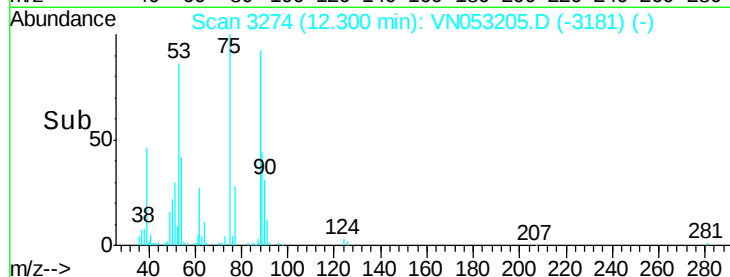
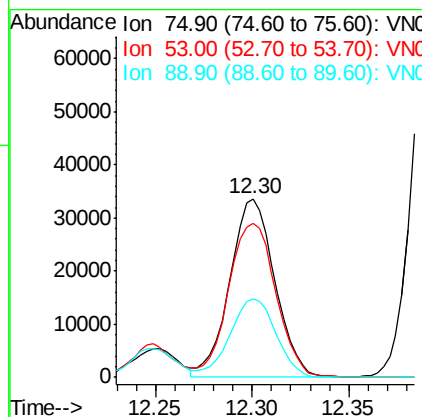
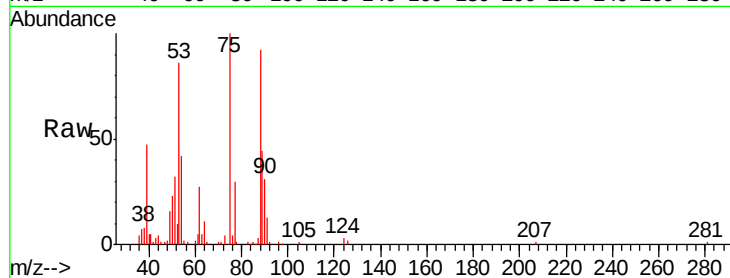
ClientSampleId :

VN1227WBS01

Tgt Ion:	75	Resp:	54410
Ion	Ratio	Lower	Upper
75	100		
53	91.5	74.7	112.1
89	44.8	36.1	54.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.847 ug/l

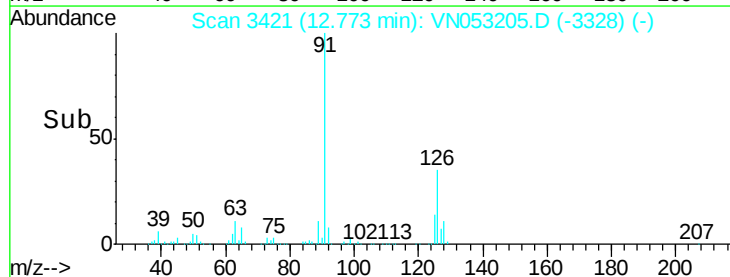
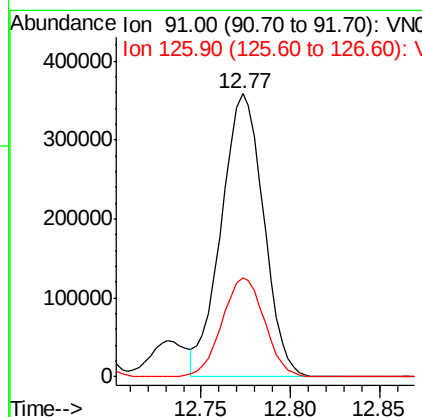
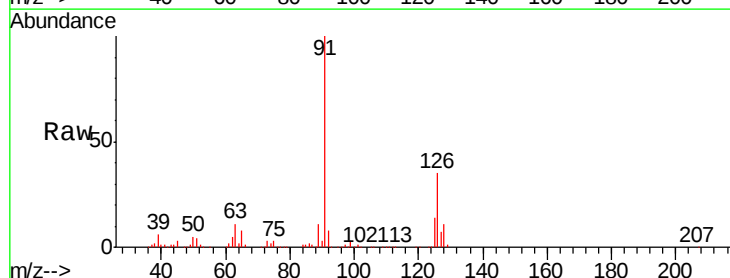
RT: 12.77 min Scan# 3421

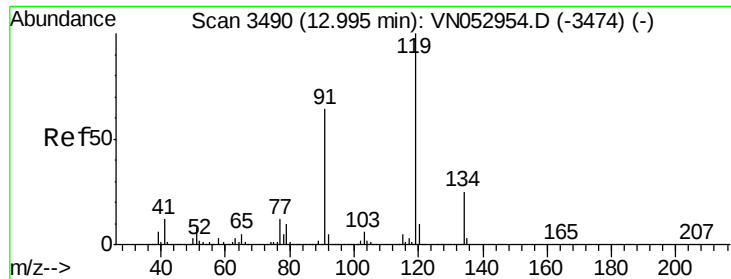
Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Tgt Ion:	91	Resp:	591309
Ion	Ratio	Lower	Upper
91	100		
126	35.2	17.3	51.7





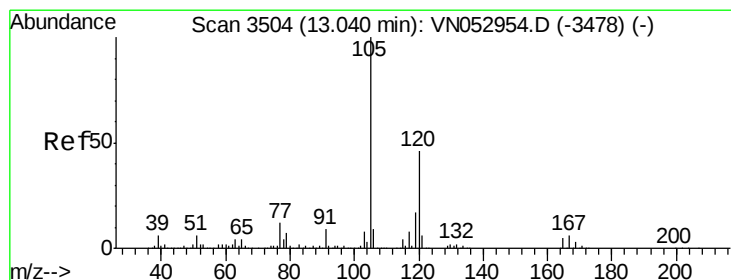
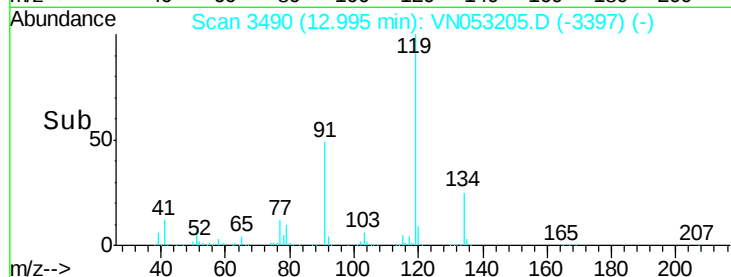
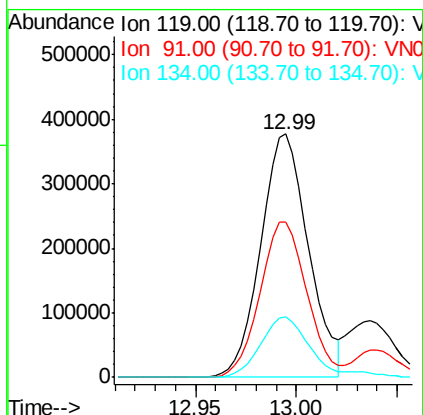
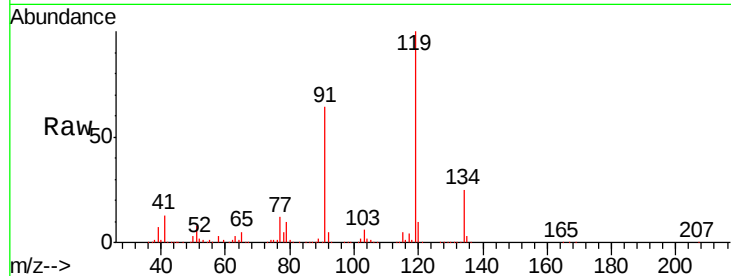
#83
 tert-Butylbenzene
 Concen: 21.037 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	622441		
91	63.0		31.9	95.5
134	26.2		12.8	38.4

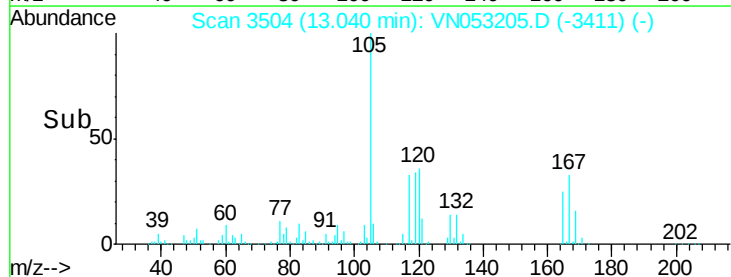
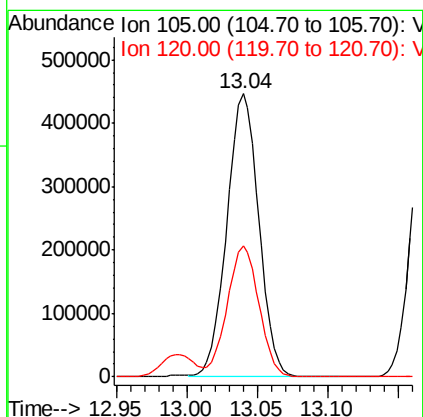
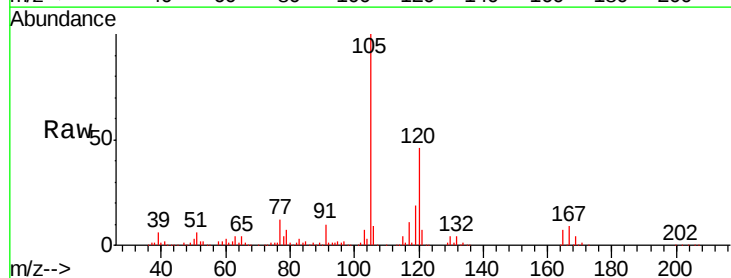
Manual Integrations
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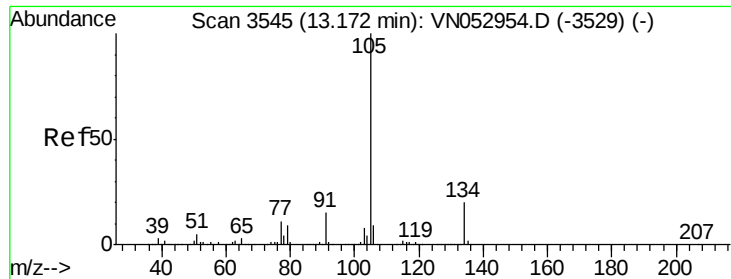
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.967 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	705157		
120	46.4		22.9	68.8





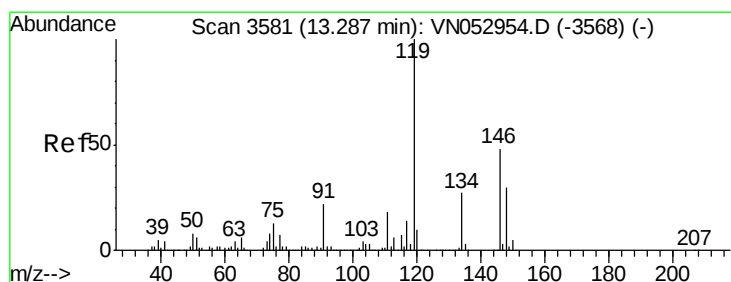
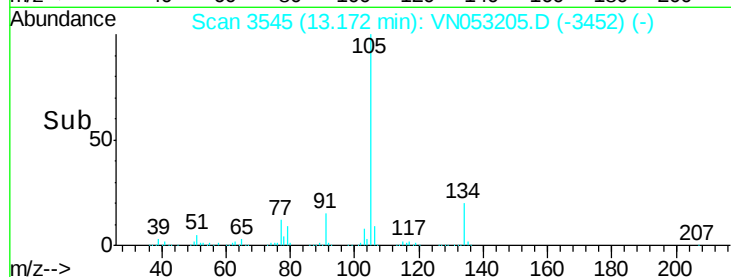
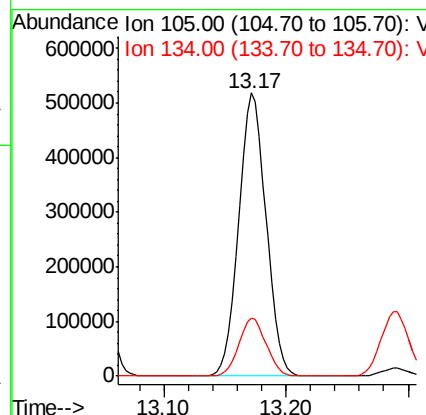
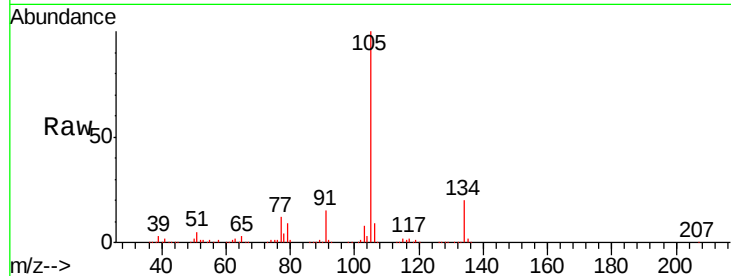
#85
 sec-Butylbenzene
 Concen: 20.084 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	803788		
134	20.4	10.1	30.3	

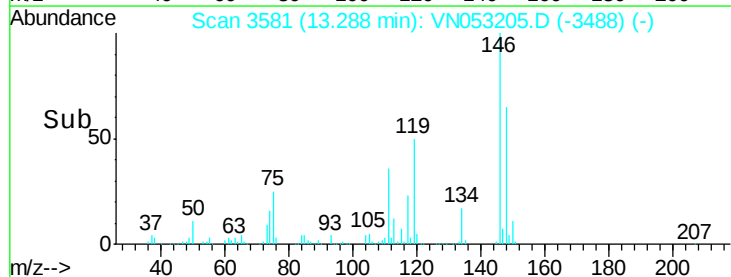
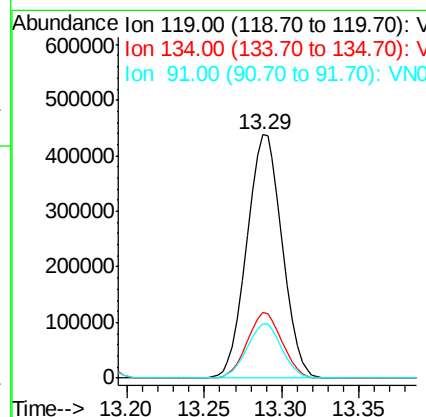
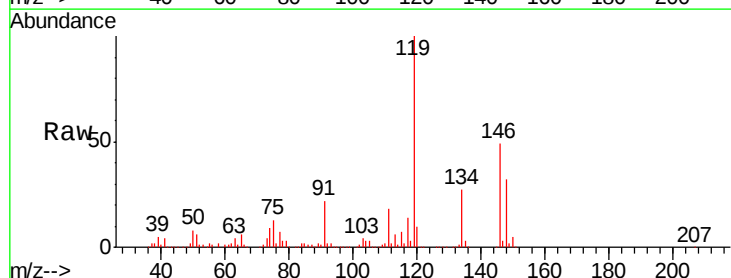
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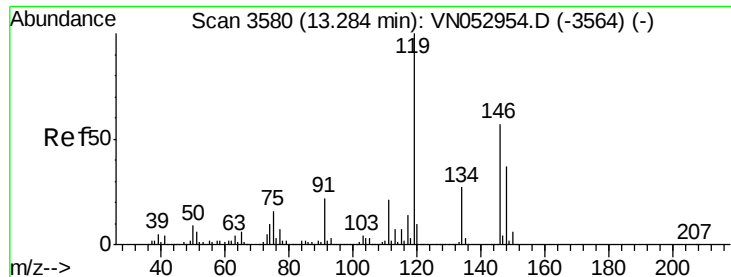
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#86
 p-Isopropyltoluene
 Concen: 20.083 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	694497		
134	26.7	13.4	40.2	
91	22.1	11.1	33.3	





#87

1,3-Dichlorobenzene

Concen: 20.466 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

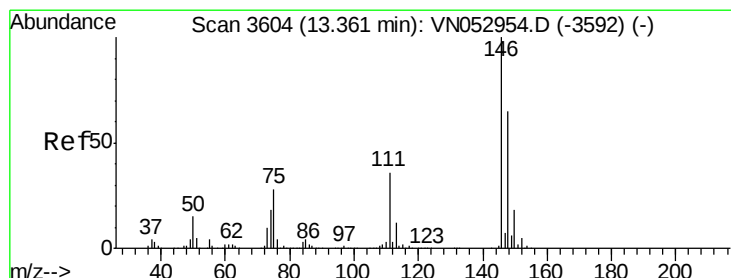
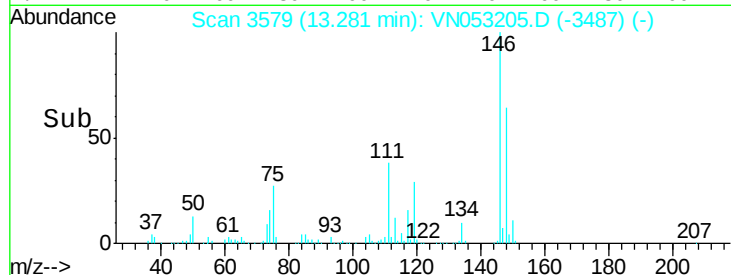
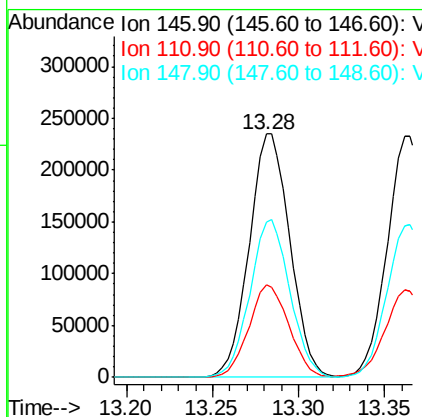
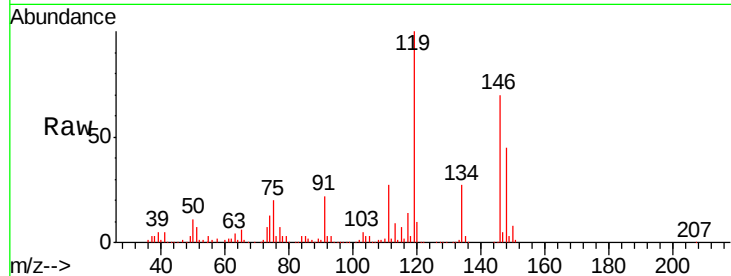
ClientSampleId :

VN1227WBS01

Tgt Ion:	146	Resp:	386461
Ion Ratio	Lower	Upper	
146	100		
111	37.4	19.1	57.1
148	63.4	32.0	96.0

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#88

1,4-Dichlorobenzene

Concen: 20.085 ug/l

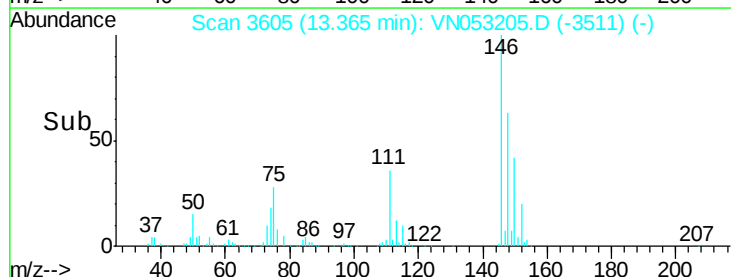
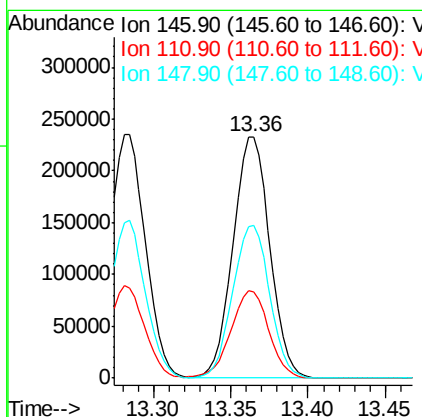
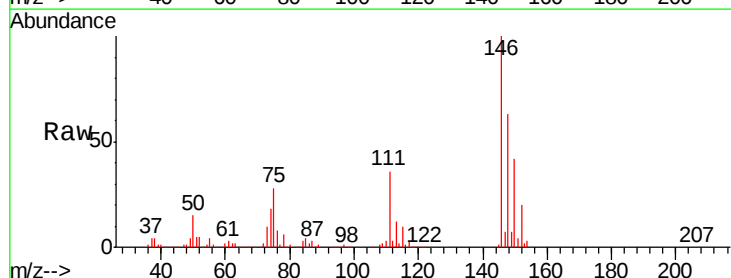
RT: 13.36 min Scan# 3605

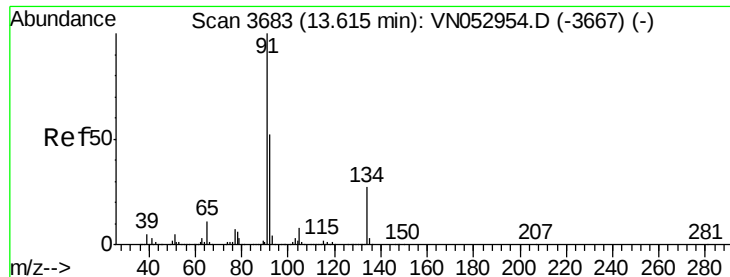
Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Tgt Ion:	146	Resp:	384083
Ion Ratio	Lower	Upper	
146	100		
111	37.5	18.6	55.8
148	63.7	32.1	96.5





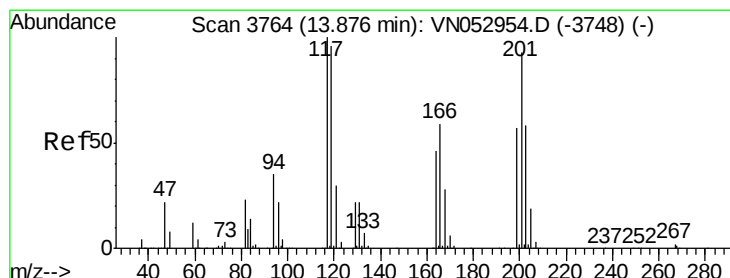
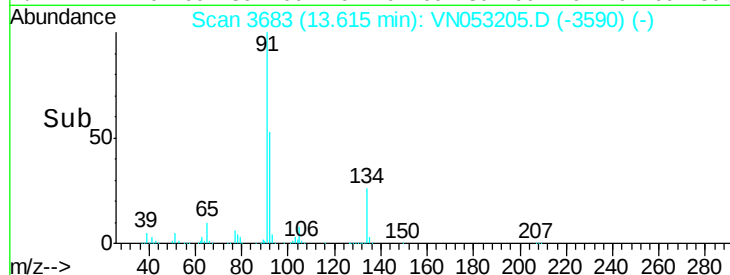
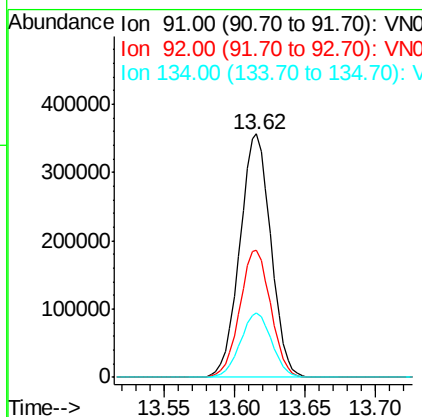
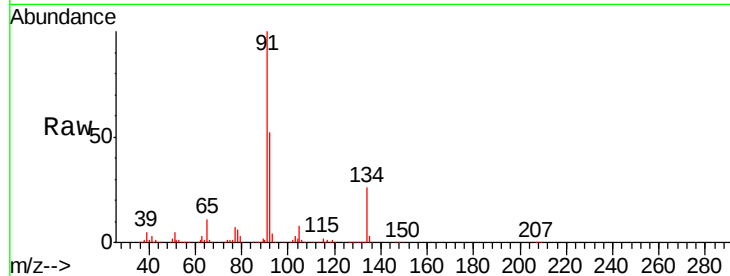
#89
n-Butylbenzene
Concen: 18.442 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.3	78.9
134	26.6	13.3	39.8

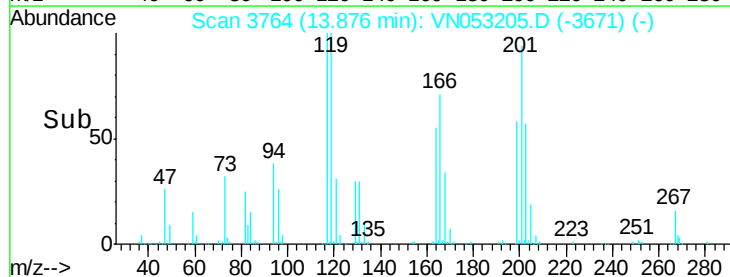
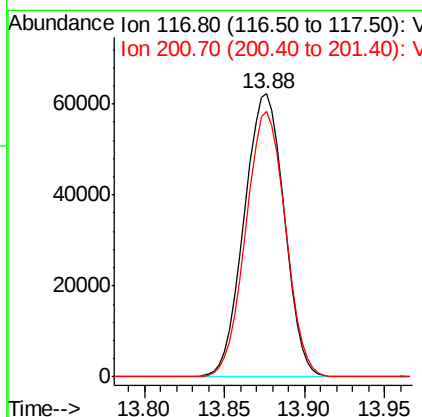
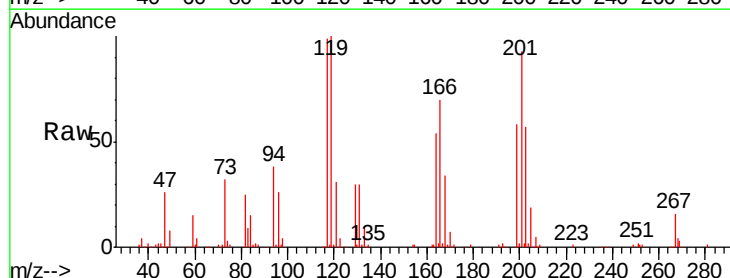
Manual Integrations
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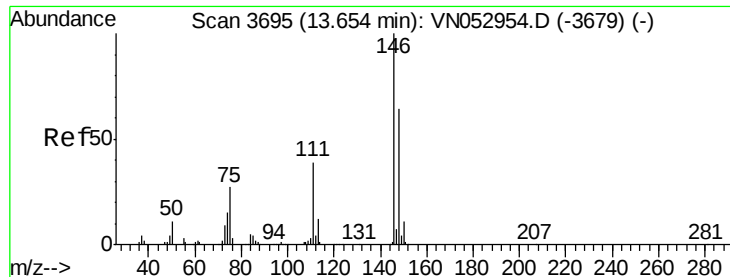
MMDadoda
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#90
Hexachloroethane
Concen: 20.108 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053205.D
Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.8	45.7	137.1





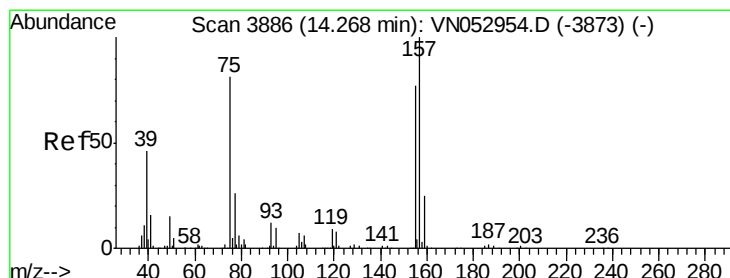
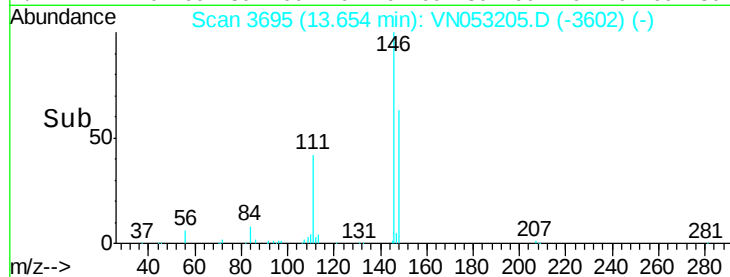
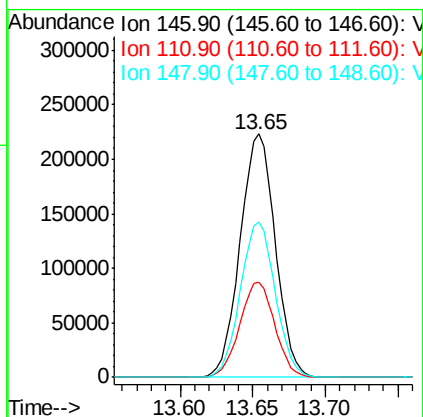
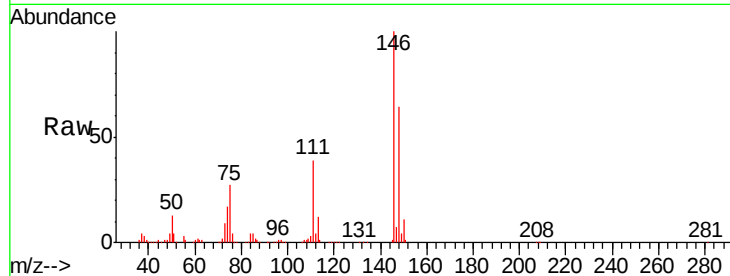
#91
 1,2-Dichlorobenzene
 Concen: 21.193 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.7	59.0
148	63.3	32.0	96.0

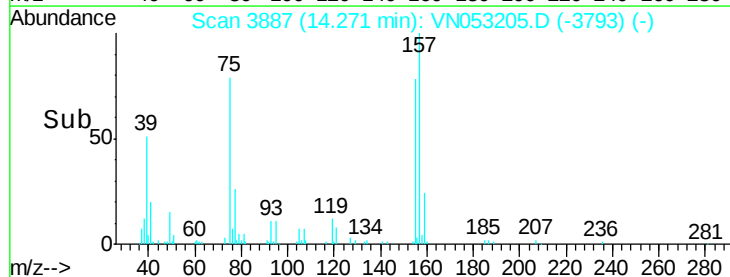
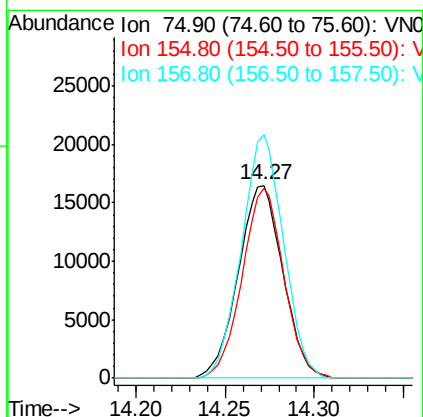
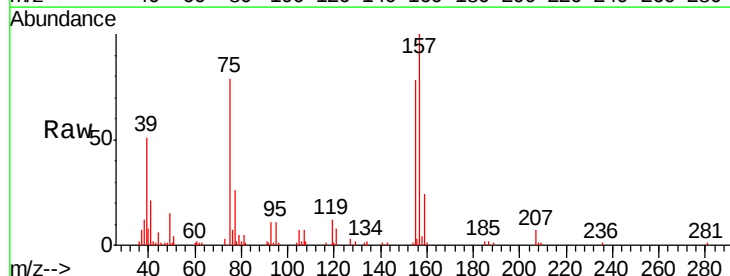
Manual Integrations
 APPROVED

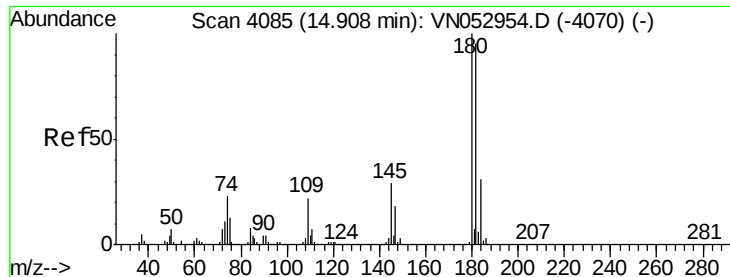
MMDadoda
 12/28/2018 10:14:24 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.692 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053205.D
 Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.0	48.2	144.6
157	119.5	61.2	183.5





#93

1,2,4-Trichlorobenzene

Concen: 18.693 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

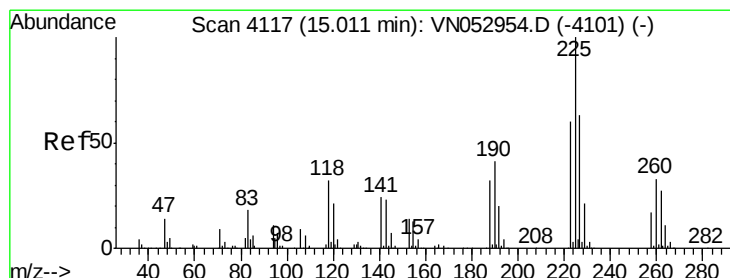
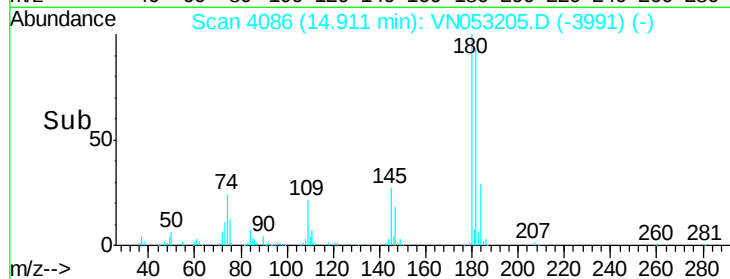
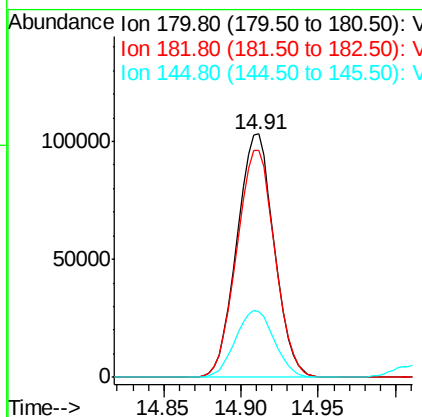
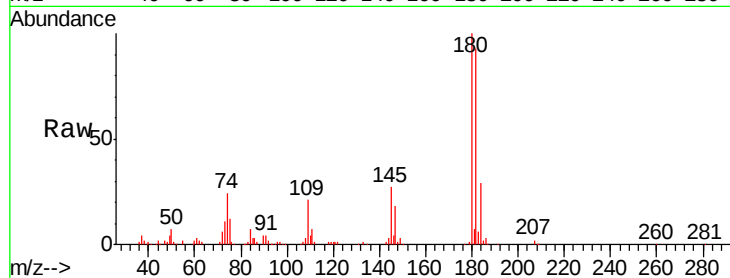
ClientSampleId :

VN1227WBS01

Tgt Ion:	180	Resp:	172450
Ion Ratio	Lower	Upper	
180	100		
182	95.4	47.8	143.3
145	28.6	14.2	42.6

Manual Integrations
APPROVED

MMDadoda
12/28/2018 10:14:24 AM



#94

Hexachlorobutadiene

Concen: 21.295 ug/l

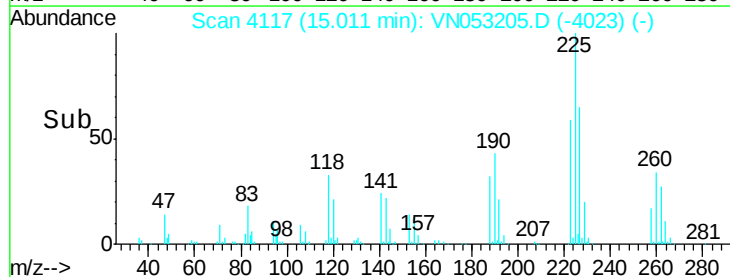
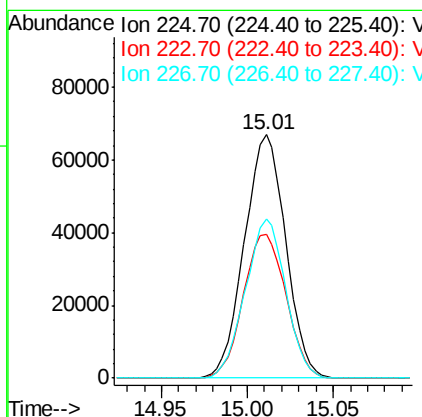
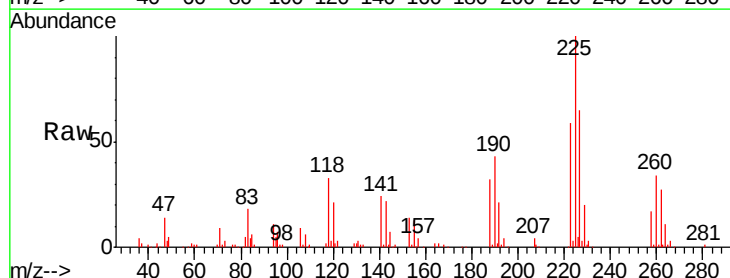
RT: 15.01 min Scan# 4117

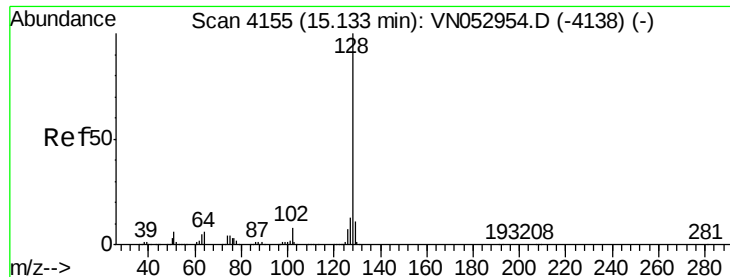
Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Tgt Ion:	225	Resp:	111855
Ion Ratio	Lower	Upper	
225	100		
223	61.1	31.5	94.5
227	63.8	31.9	95.7





#95

Naphthalene

Concen: 18.846 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Instrument :

MSVOA_N

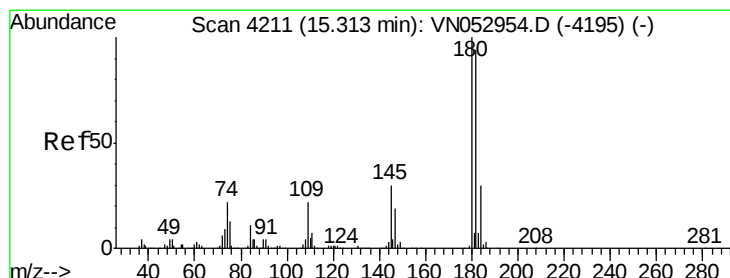
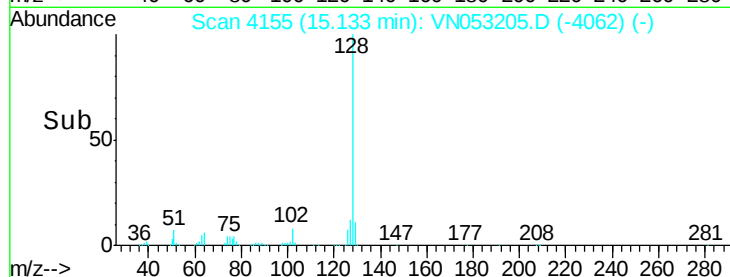
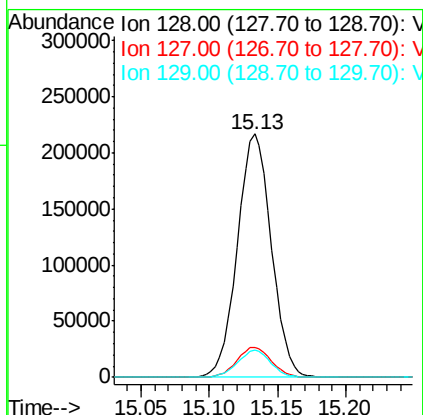
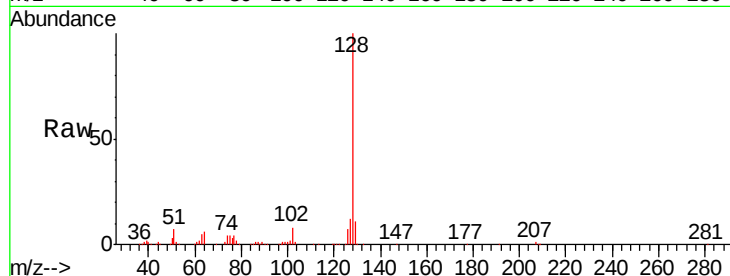
ClientSampleId :

VN1227WBS01

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	373635		
127	12.5	10.2	15.4	
129	11.0	8.6	13.0	

Manual Integrations
APPROVED

MMDadoda
12/28/2018 10:14:24 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.556 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053205.D

Acq: 27 Dec 2018 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	154602		
182	94.5	47.9	143.7	
145	29.8	15.0	45.0	

