

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\
 Data File : VN052819.D
 Acq On : 12 Dec 2018 11:36
 Operator : MD\SY
 Sample : VN1212WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBS01

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 1:29:19 PM

Quant Time: Dec 13 03:56:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	151265	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	878182	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	775863	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	304925	29.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.60%
60) 4-Bromofluorobenzene	12.40	95	361122	30.44	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.47%
63) Toluene-d8	10.09	98	1053852	29.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	163217	18.946	ug/l 100
3) Chloromethane	2.06	50	208843	18.279	ug/l 100
4) Vinyl Chloride	2.19	62	216145	18.744	ug/l 97
5) Bromomethane	2.58	94	135618	20.626	ug/l 95
6) Chloroethane	2.71	64	132367	19.302	ug/l 97
7) Trichlorofluoromethane	3.03	101	286061	20.100	ug/l 99
8) Diethyl Ether	3.41	74	109666	20.869	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	185737	20.588	ug/l 97
10) 1,1-Dichloroethene	3.74	96	171739	20.246	ug/l 100
11) Methyl Iodide	3.96	142	222089	18.857	ug/l 100
12) Methyl Acetate	4.32	43	156212	21.674	ug/l 98
13) Acrolein	3.61	56	56857	67.157	ug/l 99
14) Acrylonitrile	4.99	53	325187	105.892	ug/l 96
15) Acetone	3.82	58	81493	102.468	ug/l 95
16) Carbon Disulfide	4.06	76	477537	17.781	ug/l 100
17) Allyl chloride	4.33	41	277157	18.735	ug/l 100
18) Methylene Chloride	4.55	84	199790	20.342	ug/l 95
19) trans-1,2-Dichloroethene	5.05	96	183660	20.119	ug/l 95
20) Diisopropyl ether	5.95	45	623557	20.058	ug/l 97
21) 1,1-Dichloroethane	5.85	63	356541	20.122	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	215440	20.592	ug/l 98
23) tert-Butyl Alcohol	4.78	59	58220	127.443	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	478646	21.509	ug/l 98
25) Chloroform	7.37	83	351292	20.551	ug/l 98
26) Cyclohexane	7.66	56	320557	19.182	ug/l # 99
29) 1,1-Dichloropropene	7.80	75	271386	20.237	ug/l 98
30) 2-Butanone	6.83	43	385400	107.399	ug/l 99
31) 2,2-Dichloropropane	6.83	77	258945	20.974	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	294945	21.137	ug/l 98
33) Carbon Tetrachloride	7.77	117	253779	20.785	ug/l 99
34) Benzene	8.04	78	812364	20.148	ug/l 99
35) Methacrylonitrile	7.18	41	102241	22.964	ug/l 97
36) 1,2-Dichloroethane	8.13	62	245649	20.105	ug/l 99
37) Trichloroethene	8.84	130	220368	21.554	ug/l 97
38) Methylcyclohexane	9.08	83	327329	19.717	ug/l 98
39) 1,2-Dichloropropane	9.12	63	219492	20.308	ug/l 99
40) Dibromomethane	9.21	93	125219	21.440	ug/l 95

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MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	261341	20.253	ug/l	99
42) Vinyl Acetate	5.90	43	1883067	96.985	ug/l	98
43) Ethyl Acetate	6.93	43	167358	21.933	ug/l #	68
44) Isopropyl Acetate	8.16	43	307260	22.960	ug/l	99
45) 1,4-Dioxane	9.20	88	36131	493.519	ug/l	94
46) Methyl methacrylate	9.20	41	149489	21.514	ug/l	98
47) n-amyl Acetate	12.07	43	247721	22.326	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	257742	20.600	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	308481	20.236	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	177430	21.431	ug/l	99
51) Ethyl methacrylate	10.43	69	227448	21.874	ug/l	95
52) 1,3-Dichloropropane	10.71	76	310612	21.078	ug/l	98
53) Dibromochloromethane	10.90	129	195603	21.460	ug/l	99
54) 1,2-Dibromoethane	11.01	107	176452	21.811	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	653813	107.420	ug/l	99
56) Bromoform	12.13	173	129577	21.749	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	837097	111.290	ug/l	99
59) 2-Hexanone	10.75	43	578103	112.510	ug/l	99
61) Tetrachloroethene	10.63	164	229186	23.984	ug/l	96
62) Toluene	10.16	91	880314	20.582	ug/l	100
64) Chlorobenzene	11.43	112	542181	20.768	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	196006	21.630	ug/l	98
66) Ethyl Benzene	11.51	91	943394	20.465	ug/l	98
67) m/p-Xylenes	11.62	106	714764	41.619	ug/l	99
68) o-Xylene	11.95	106	347458	20.845	ug/l	99
69) Styrene	11.96	104	558607	20.762	ug/l	100
70) Isopropylbenzene	12.25	105	936597	21.118	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	203845	21.129	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	189117m	22.835	ug/l	
73) Bromobenzene	12.53	156	235370	21.943	ug/l	94
74) n-propylbenzene	12.59	91	1069527	20.697	ug/l	99
75) 2-Chlorotoluene	12.68	91	633850	21.132	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	759562	21.204	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	54488	20.827	ug/l	100
78) 4-Chlorotoluene	12.77	91	634802	21.193	ug/l	100
79) tert-butylbenzene	12.99	119	673328	21.583	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	764232	21.321	ug/l	100
81) sec-Butylbenzene	13.17	105	918960	21.148	ug/l	99
82) p-Isopropyltoluene	13.29	119	784373	21.198	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	415415	22.020	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	404649	22.201	ug/l	99
85) n-Butylbenzene	13.62	91	645713	20.316	ug/l	99
86) Hexachloroethane	13.88	117	129937	20.726	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	397842	22.161	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	31302	23.163	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	213587	24.148	ug/l	99
90) Hexachlorobutadiene	15.01	225	134449	23.172	ug/l	98
91) Naphthalene	15.13	128	431120	24.137	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	197683	24.253	ug/l	98

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QLast Update : Tue Nov 27 00:48:33 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

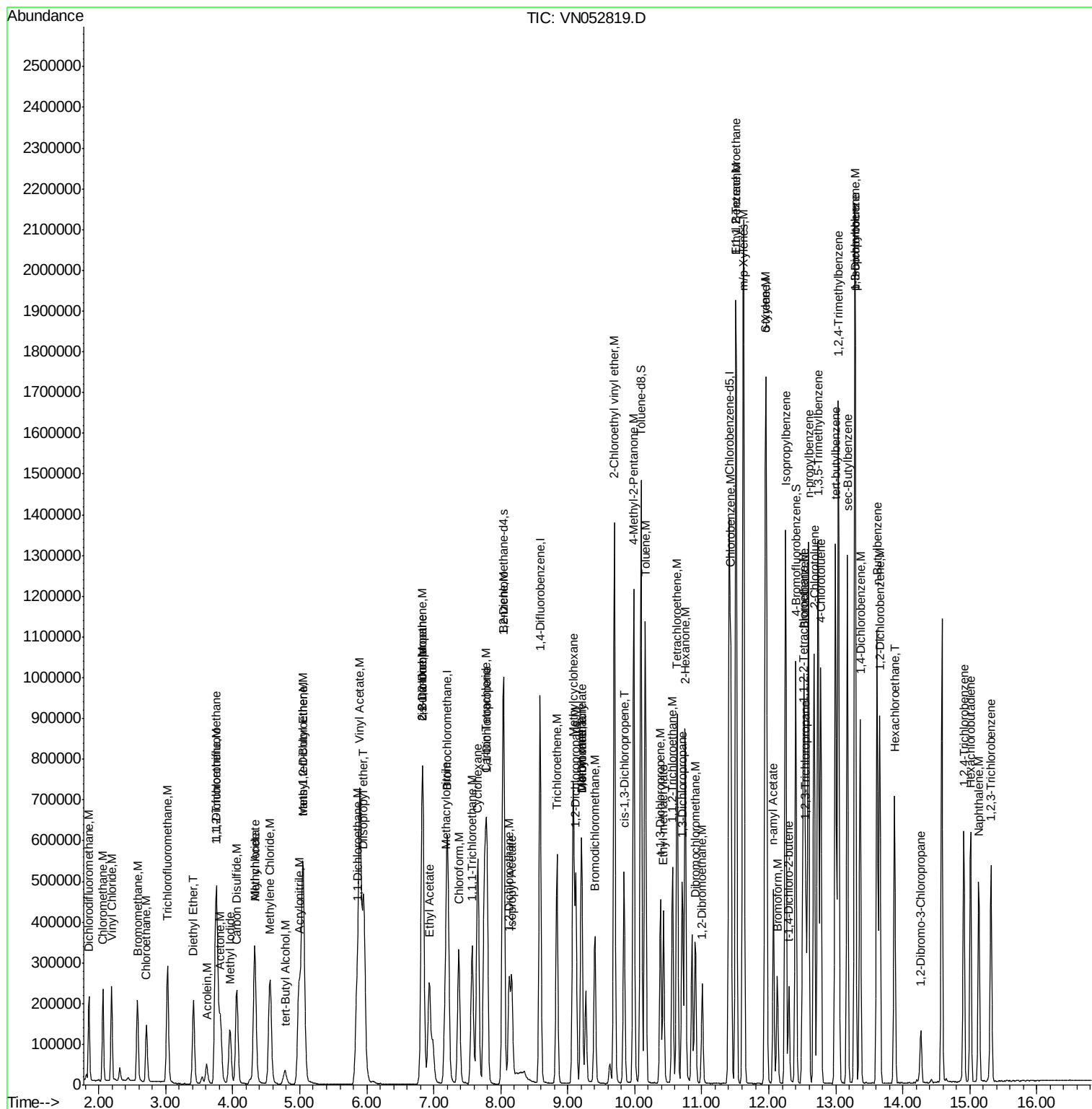
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Data File : VN052819.D
Acq On : 12 Dec 2018 11:36
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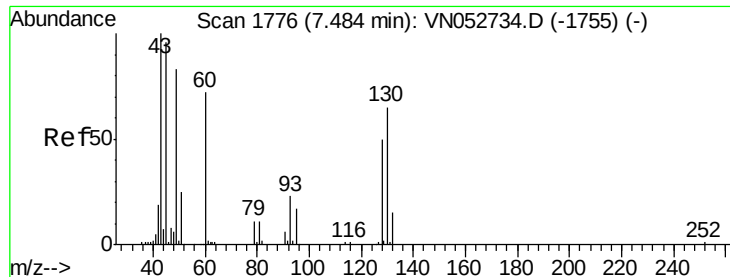
Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Manual Integrations
APPROVED

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12/13/2018 1:29:19 PM

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

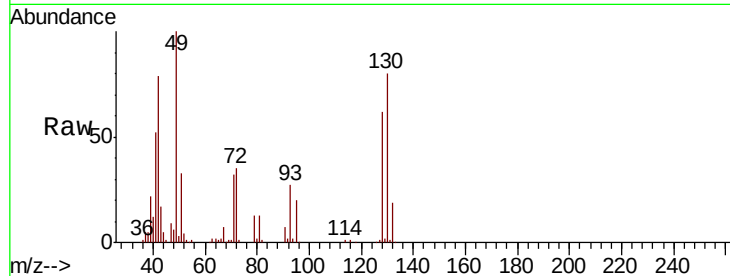
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VN1212WBS01

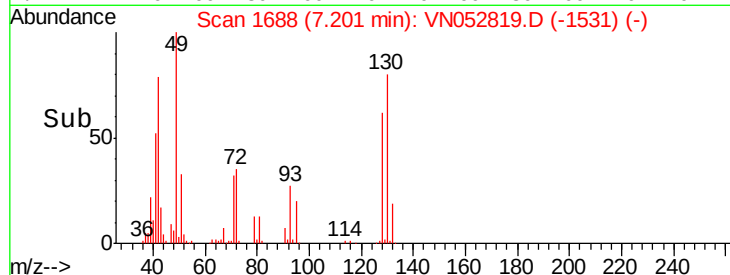
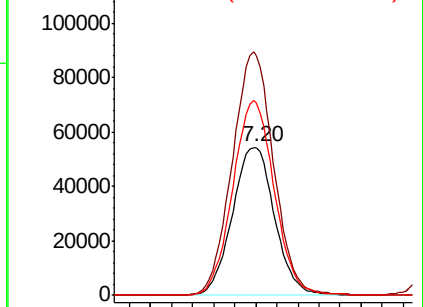
Tot Ion:	128	Resp:	151265
Ion	Ratio	Lower	Upper
128	100		
49	161.8	0.0	431.8
130	130.2	0.0	317.0

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 18.946 ug/l

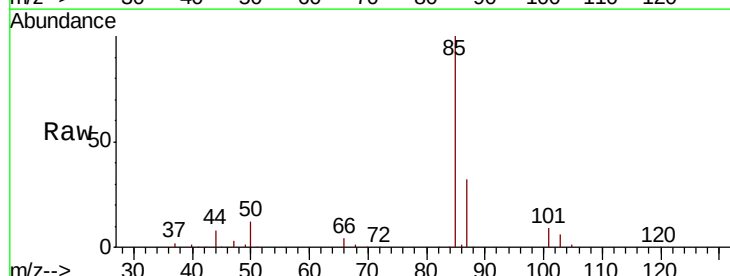
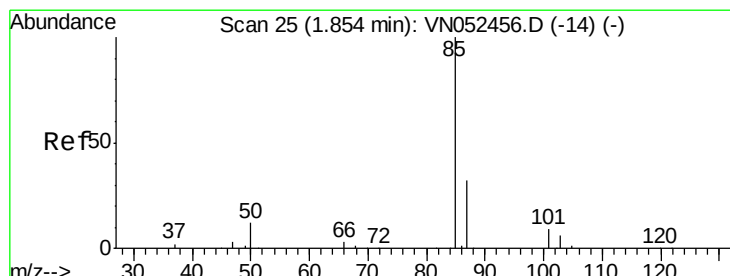
RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

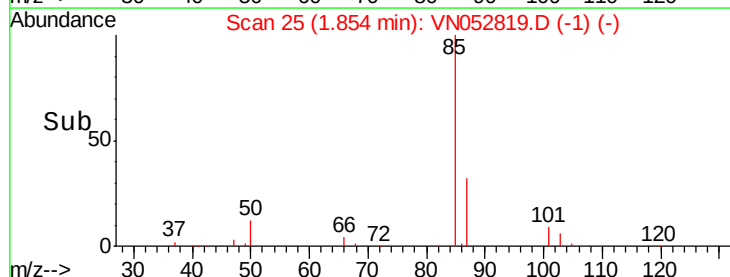
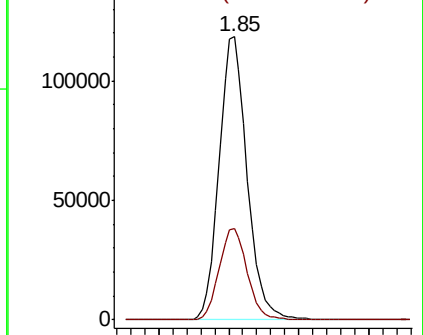
Lab File: VN052819.D

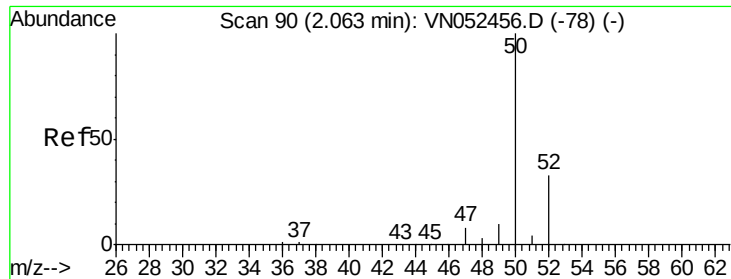
Acq: 12 Dec 2018 11:36

Tgt Ion:	85	Resp:	163217
Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.1	48.3



Abundance Ion 85.00 (84.70 to 85.70): VN
Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 18.279 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBS01

Tot Ion: 50 Resp: 208843

Ion Ratio Lower Upper

50 100

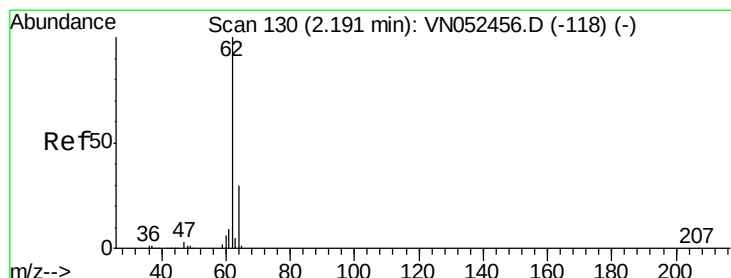
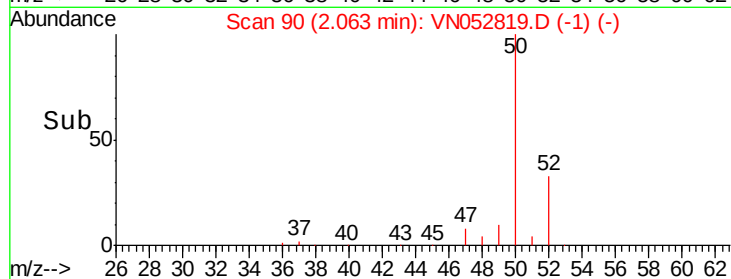
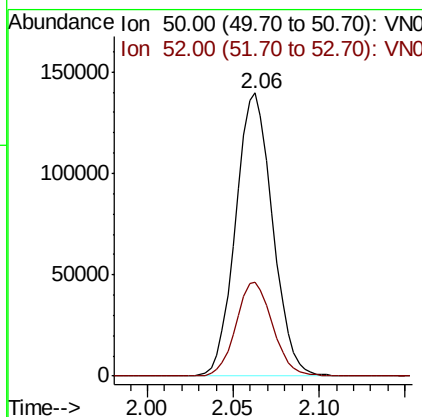
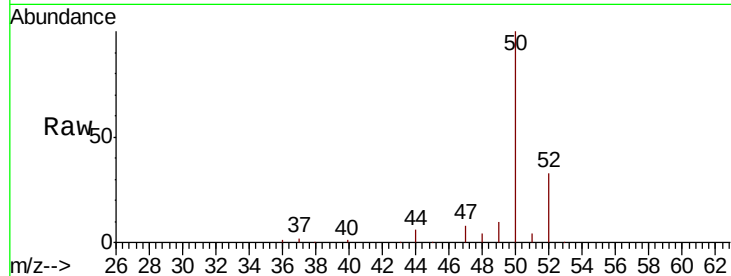
52 33.1 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.744 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052819.D

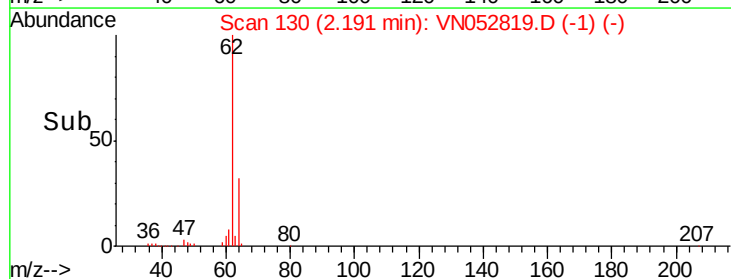
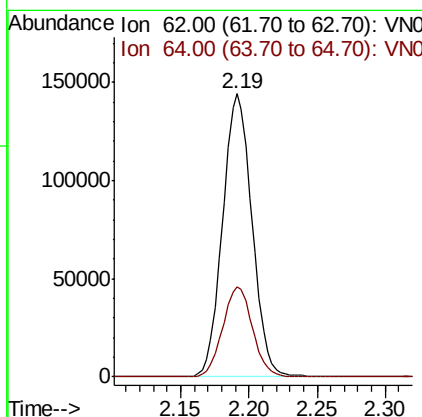
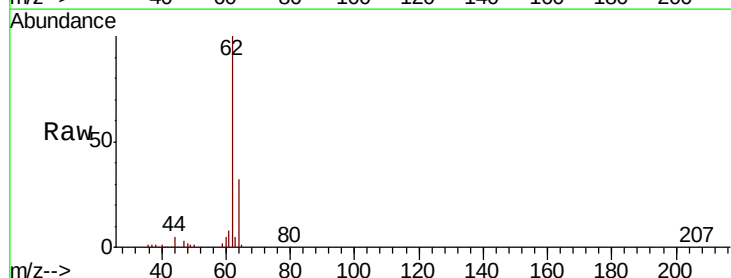
Acq: 12 Dec 2018 11:36

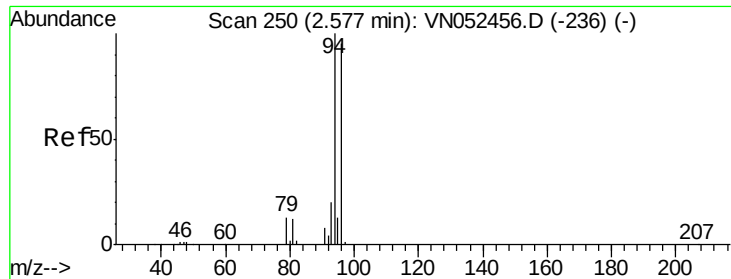
Tgt Ion: 62 Resp: 216145

Ion Ratio Lower Upper

62 100

64 32.0 24.2 36.4





#5

Bromomethane

Concen: 20.626 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBS01

Tot Ion: 94 Resp: 135618

Ion Ratio Lower Upper

94 100

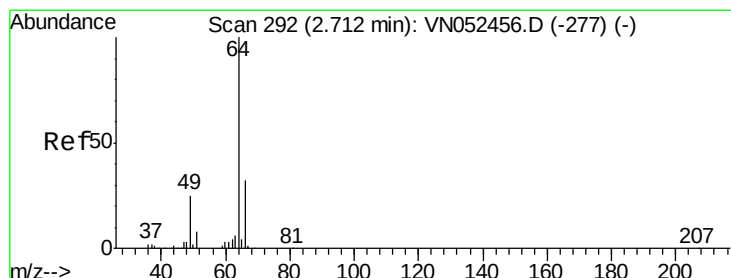
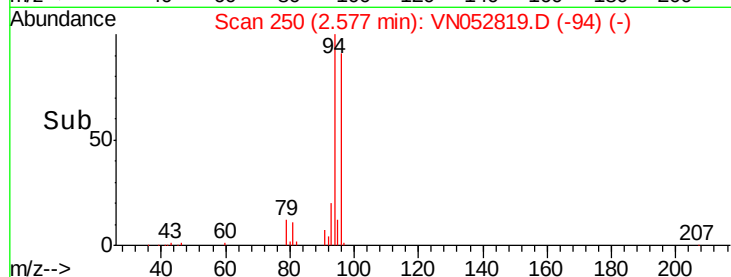
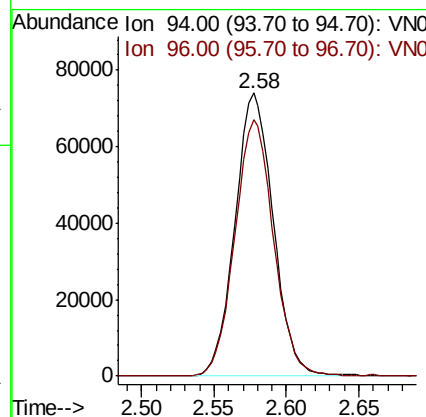
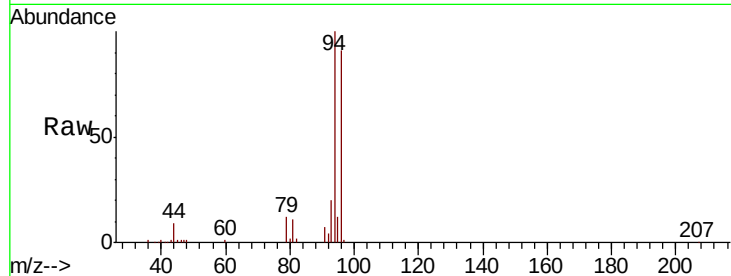
96 90.6 76.2 114.2

Manual Integrations

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#6

Chloroethane

Concen: 19.302 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052819.D

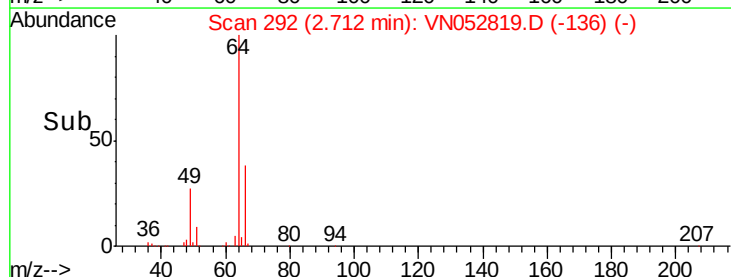
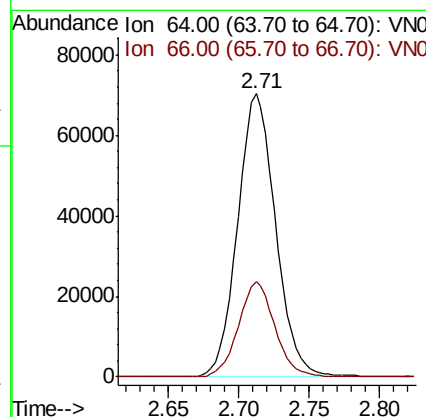
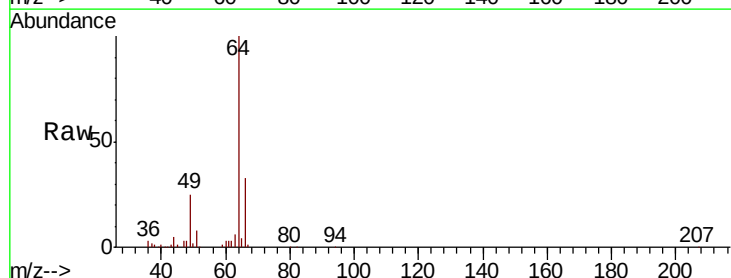
Acq: 12 Dec 2018 11:36

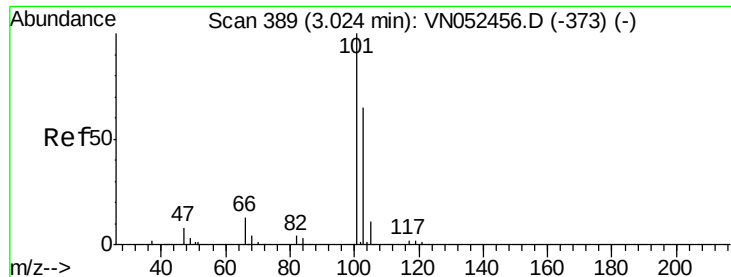
Tgt Ion: 64 Resp: 132367

Ion Ratio Lower Upper

64 100

66 33.5 25.6 38.4





#7

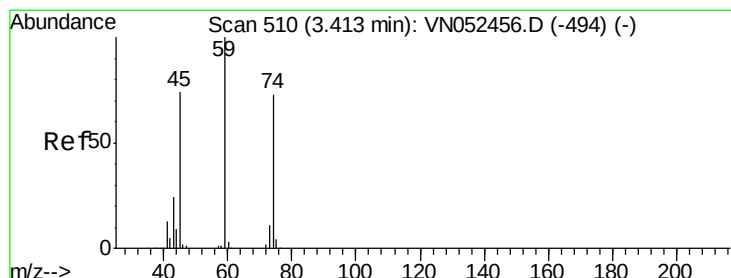
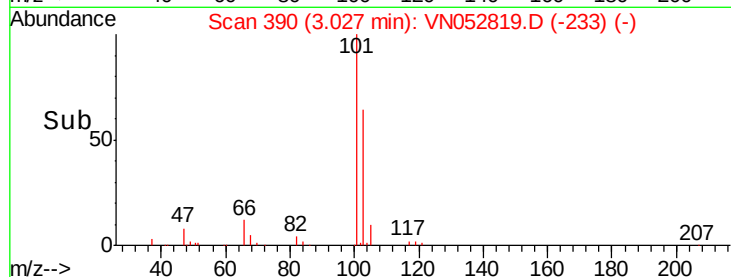
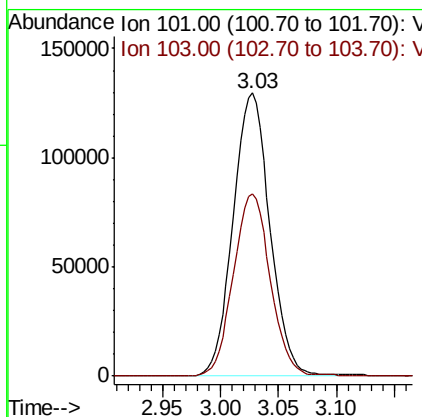
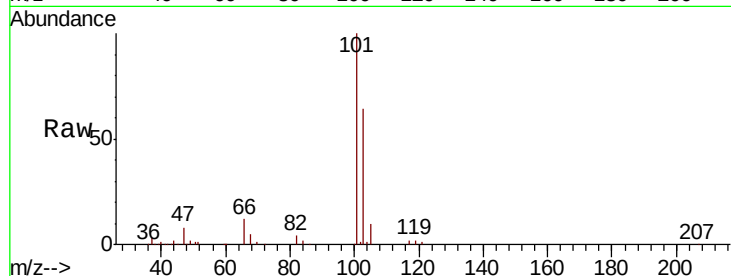
Trichlorofluoromethane
 Concen: 20.100 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Instrument :
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 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	52.1	78.1

Manual Integrations
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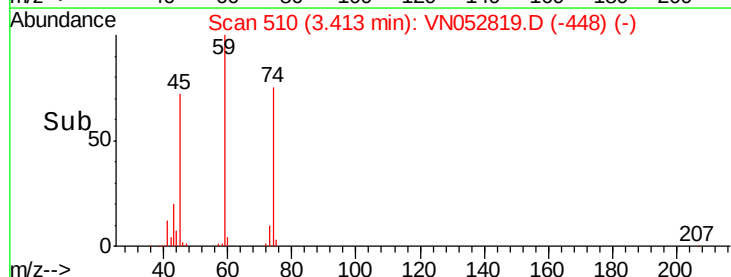
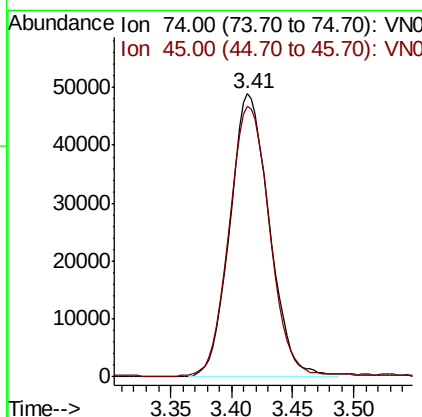
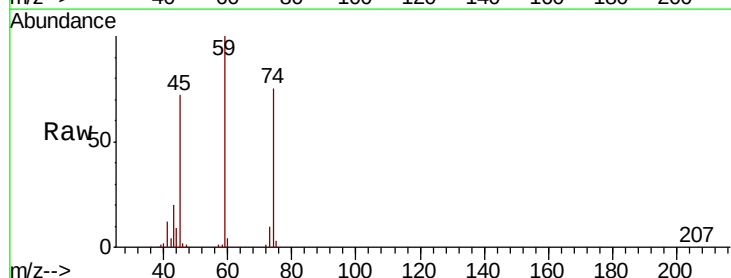
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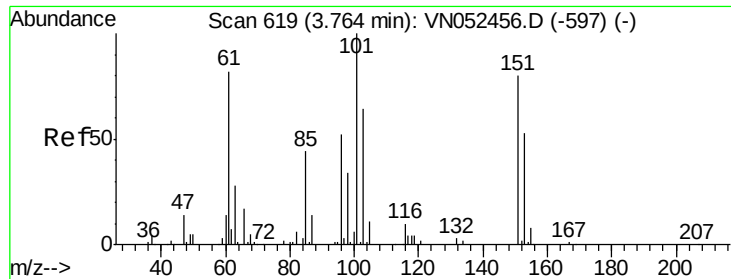


#8

Diethyl Ether
 Concen: 20.869 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.1	20.6	185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.588 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

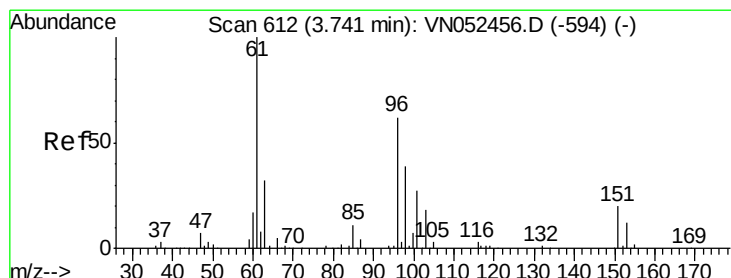
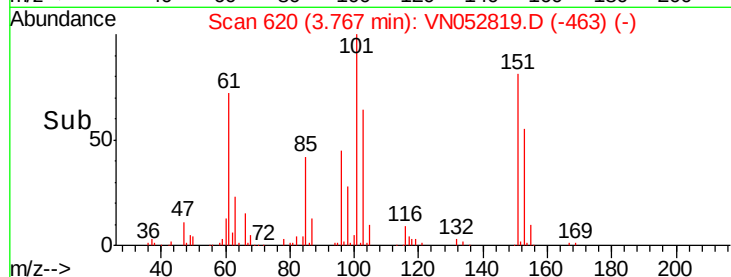
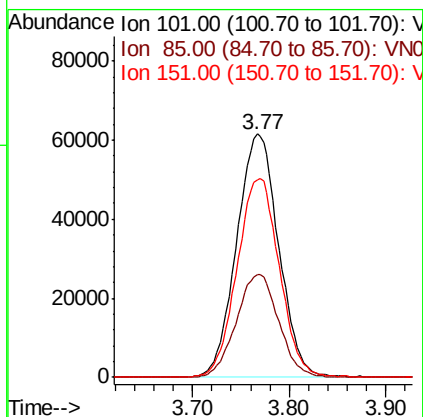
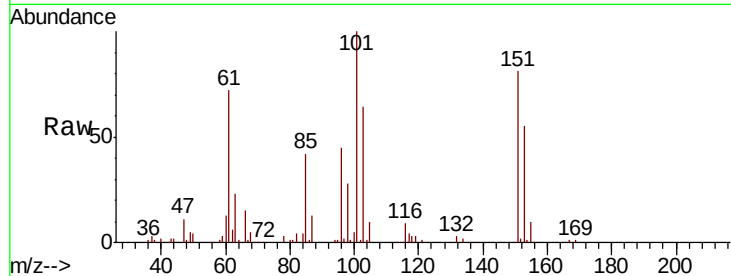
ClientSampleId :

VN1212WBS01

Tot Ion:	101	Resp:	185737
Ion Ratio	Lower	Upper	
101	100		
85	42.6	0.0	82.6
151	82.3	0.0	158.4

Manual Integrations
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12/13/2018 1:29:19 PM



#10

1,1-Dichloroethene

Concen: 20.246 ug/l

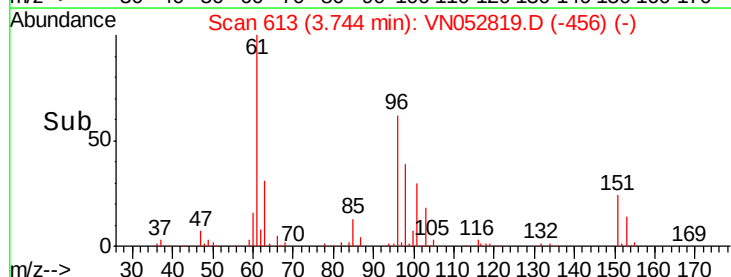
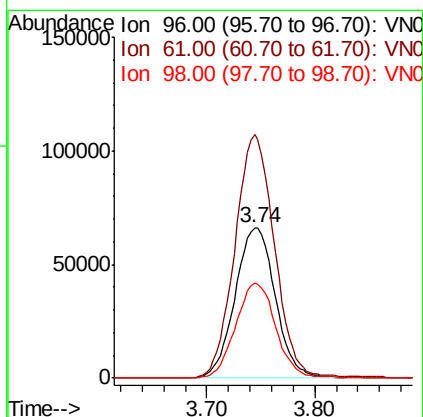
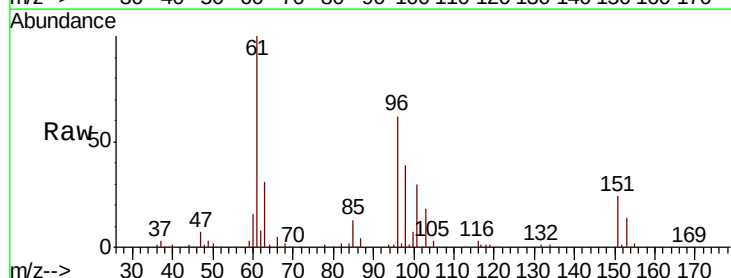
RT: 3.74 min Scan# 613

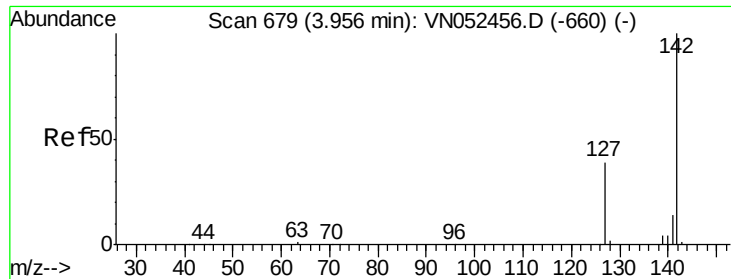
Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Tgt Ion:	96	Resp:	171739
Ion Ratio	Lower	Upper	
96	100		
61	161.9	129.4	194.2
98	63.6	50.4	75.6





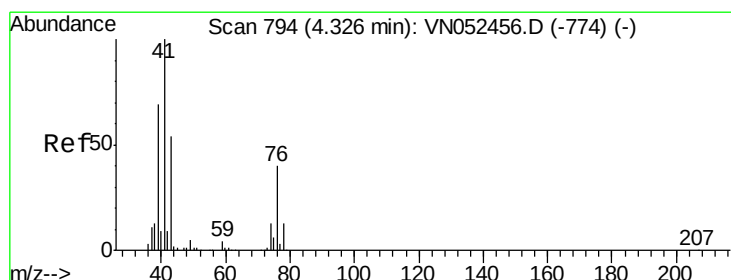
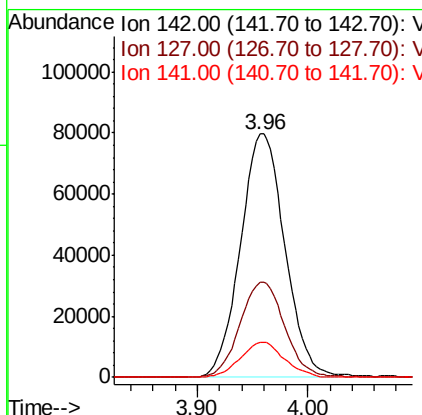
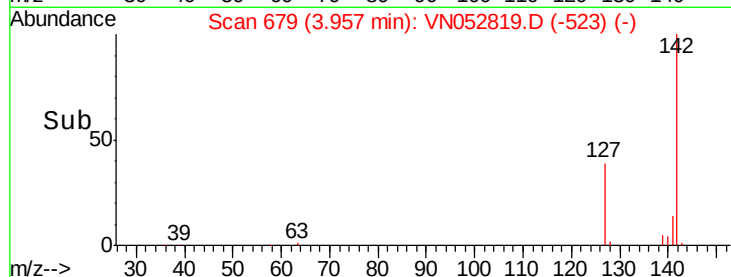
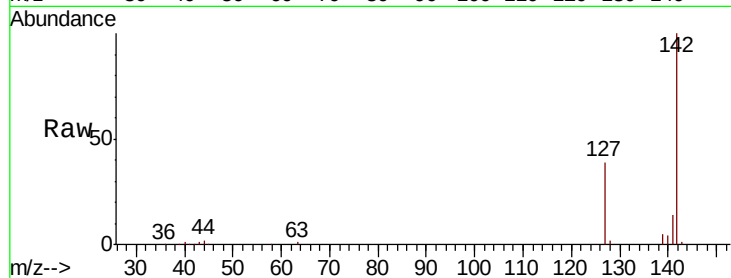
#11
Methvl Iodide
Concen: 18.857 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	Ratio	Lower	Upper
142	100		
127	39.0	19.4	58.1
141	14.4	7.2	21.6

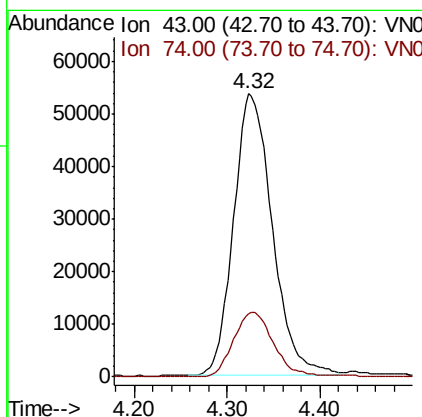
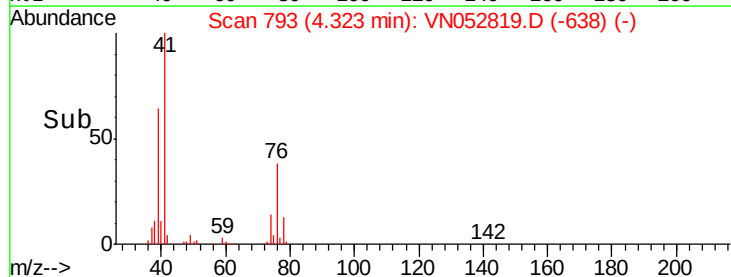
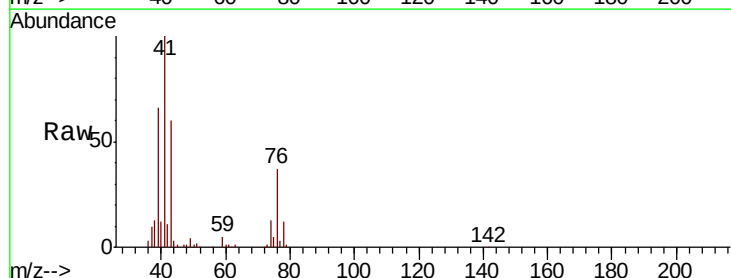
Manual Integrations
APPROVED

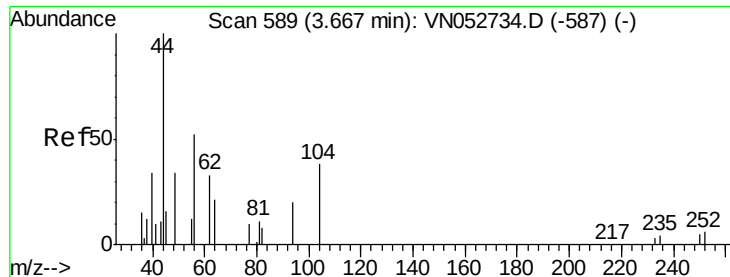
MMDadoda
12/13/2018 1:29:19 PM



#12
Methyl Acetate
Concen: 21.674 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.4	18.9	28.3





#13

Acrolein

Concen: 67.157 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBS01

Tot Ion: 56 Resp: 56857

Ion Ratio Lower Upper

56 100

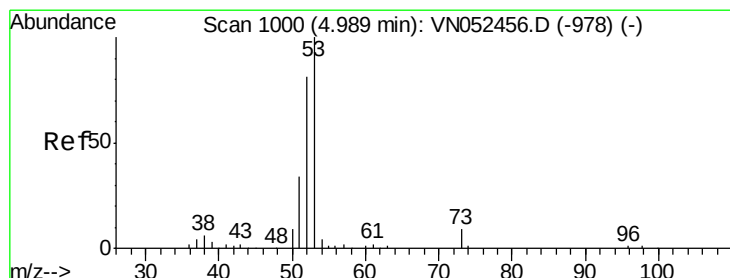
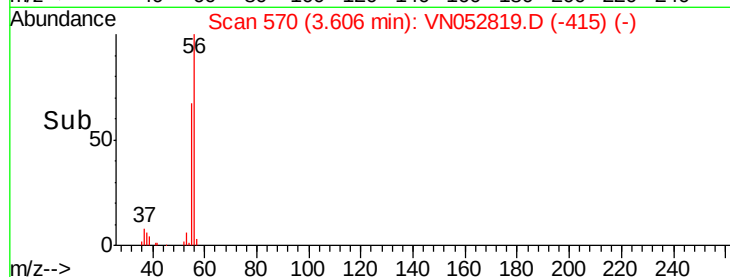
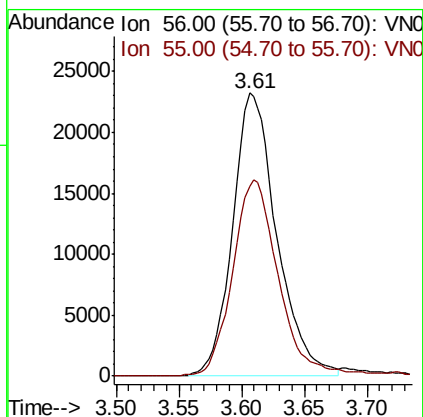
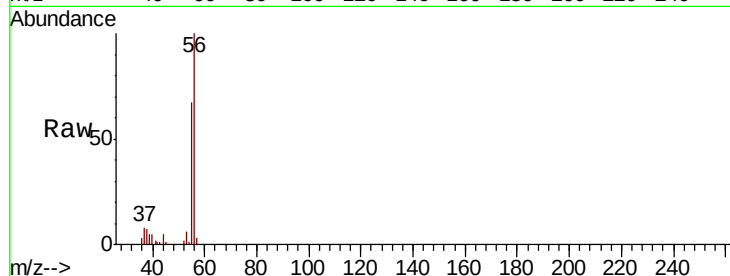
55 69.9 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

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#14

Acrylonitrile

Concen: 105.892 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

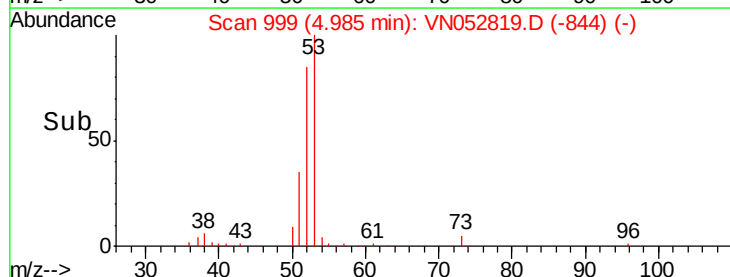
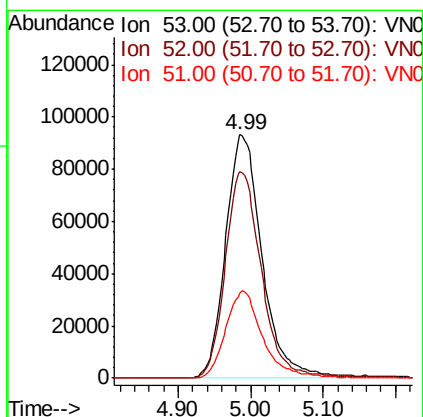
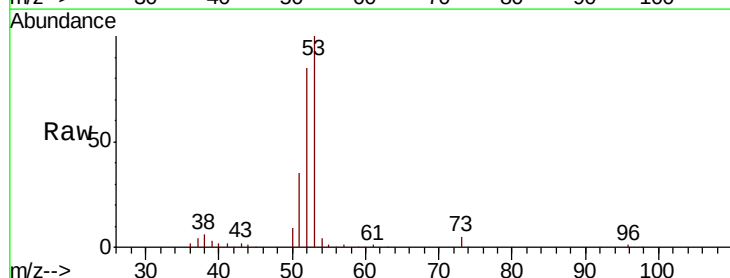
Tgt Ion: 53 Resp: 325187

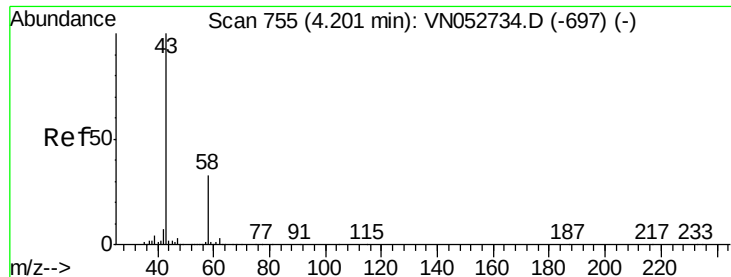
Ion Ratio Lower Upper

53 100

52 84.2 39.9 119.7

51 36.3 17.6 52.9





#15

Acetone

Concen: 102.468 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBS01

Tot Ion: 58 Resp: 81493

Ion Ratio Lower Upper

58 100

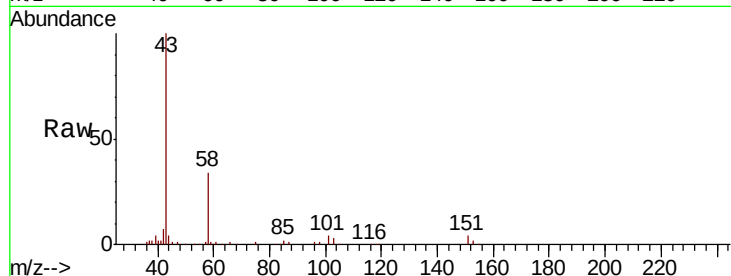
43 294.5 243.6 365.4

Manual Integrations

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Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

100000

80000

60000

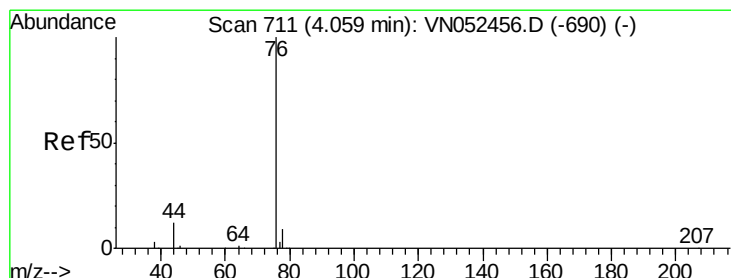
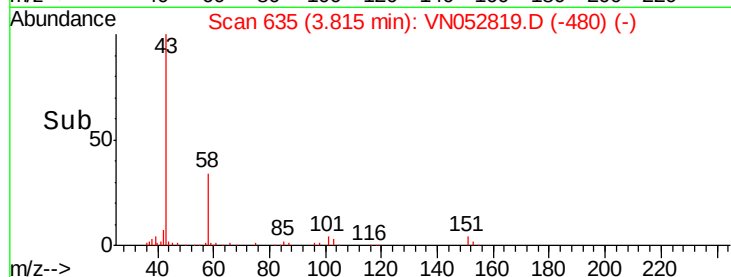
40000

20000

0

3.70 3.75 3.80 3.85 3.90

Time-->



#16

Carbon Disulfide

Concen: 17.781 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052819.D

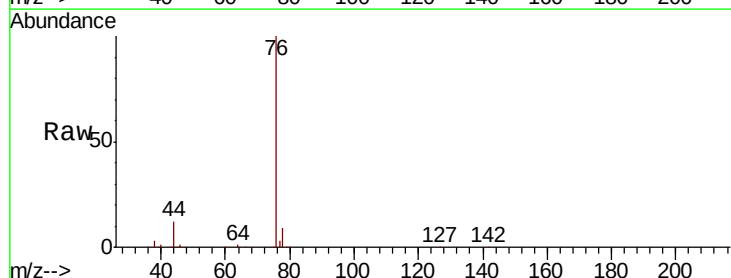
Acq: 12 Dec 2018 11:36

Tgt Ion: 76 Resp: 477537

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

200000

150000

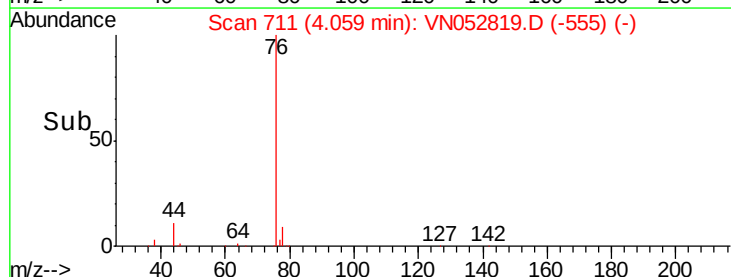
100000

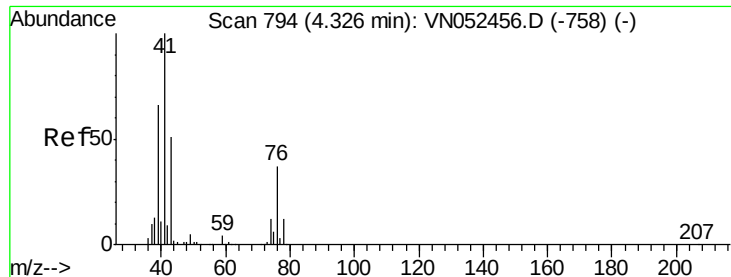
50000

0

4.00 4.10 4.20

Time-->





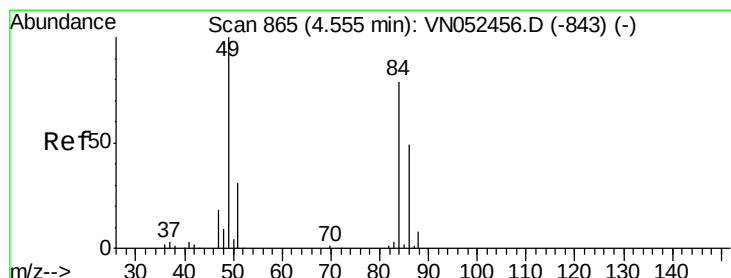
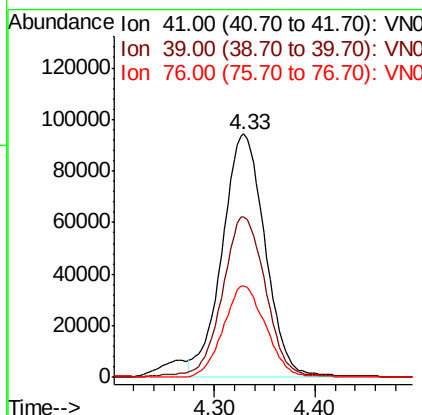
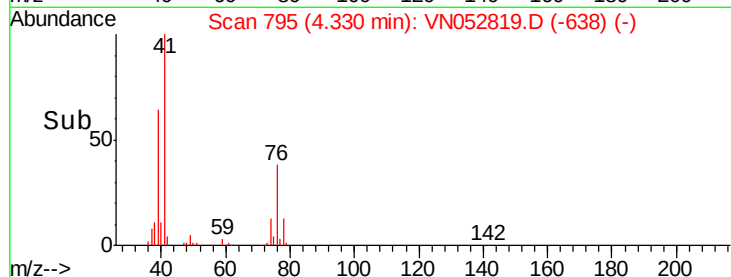
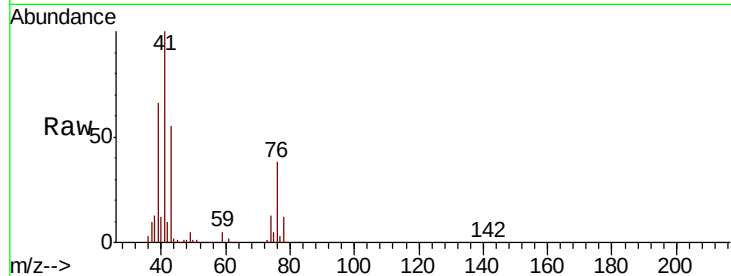
#17
Allvl chloride
Concen: 18.735 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion:	41	Resp:	277157
Ion	Ratio	Lower	Upper
41	100		
39	65.6	32.8	98.3
76	37.7	18.6	55.8

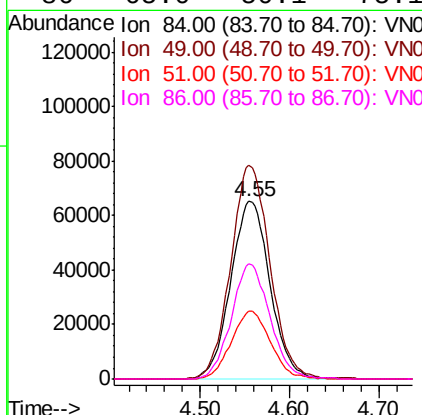
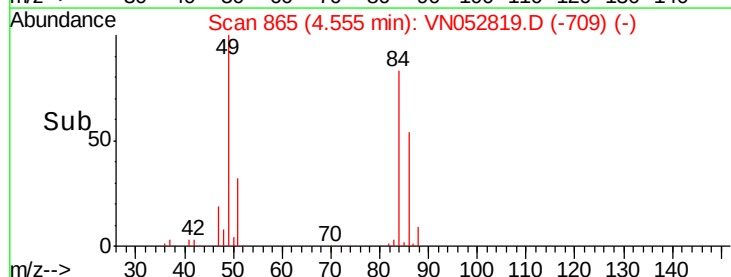
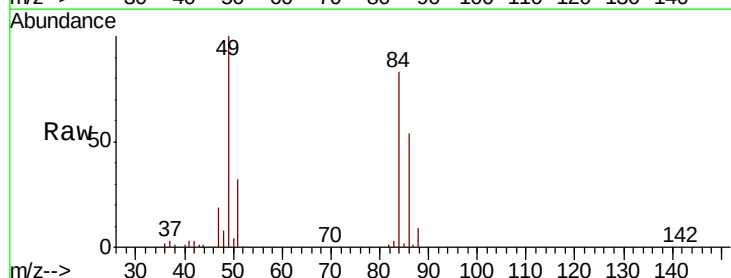
Manual Integrations
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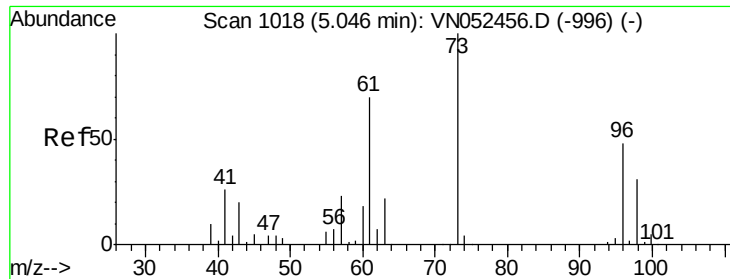
MMDadoda
12/13/2018 1:29:19 PM



#18
Methylene Chloride
Concen: 20.342 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion:	84	Resp:	199790
Ion	Ratio	Lower	Upper
84	100		
49	119.8	101.4	152.0
51	38.3	31.7	47.5
86	65.0	50.1	75.1





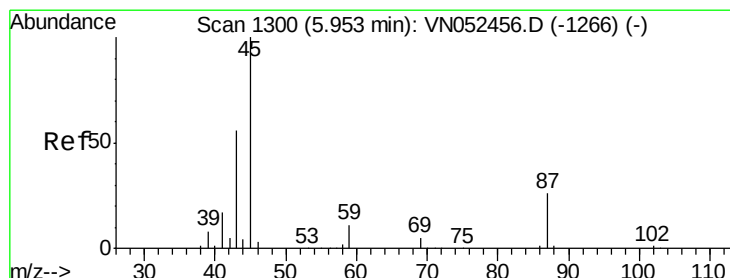
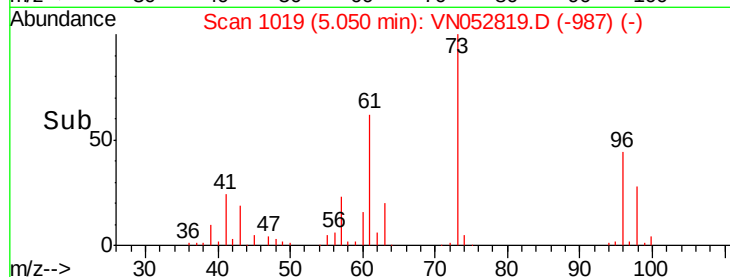
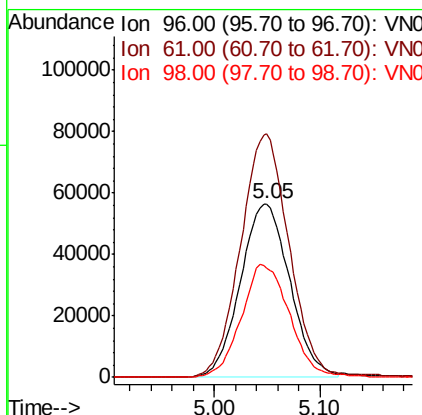
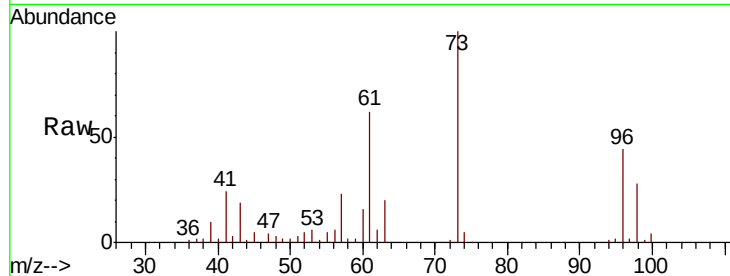
#19
trans-1,2-Dichloroethene
Concen: 20.119 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.8	118.2	177.4
98	62.7	51.4	77.2

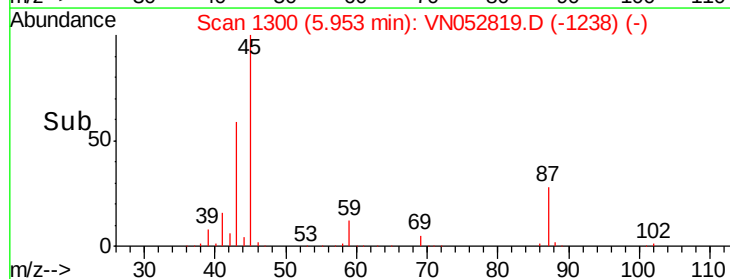
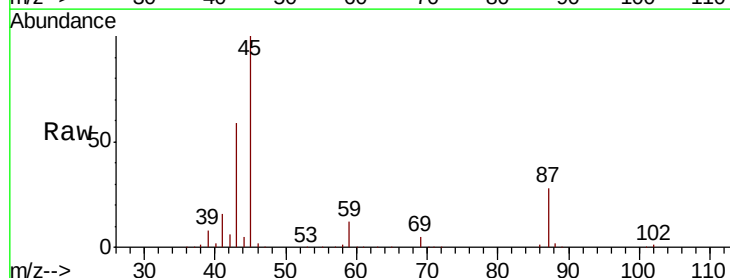
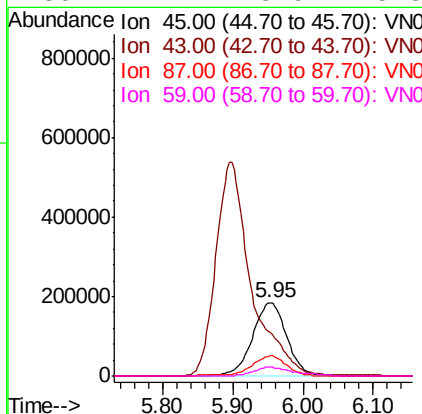
Manual Integrations
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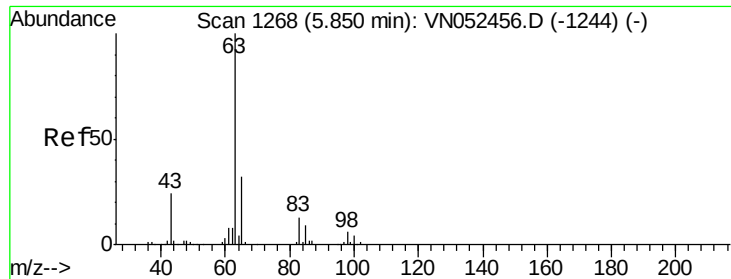
MMDadoda
12/13/2018 1:29:19 PM



#20
Diisopropyl ether
Concen: 20.058 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.8	47.8	71.8
87	27.7	21.3	31.9
59	12.1	8.9	13.3





#21

1,1-Dichloroethane

Concen: 20.122 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

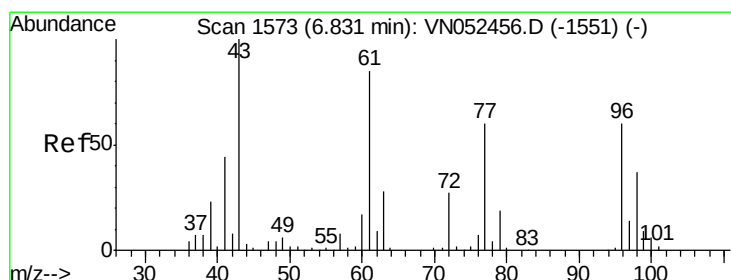
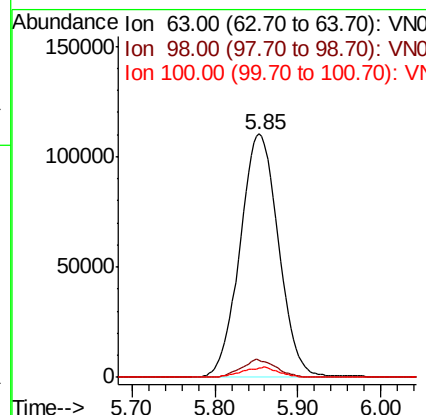
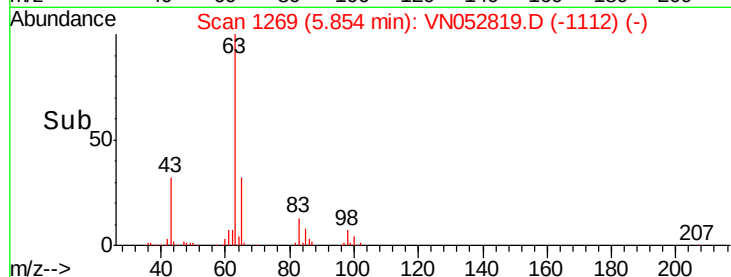
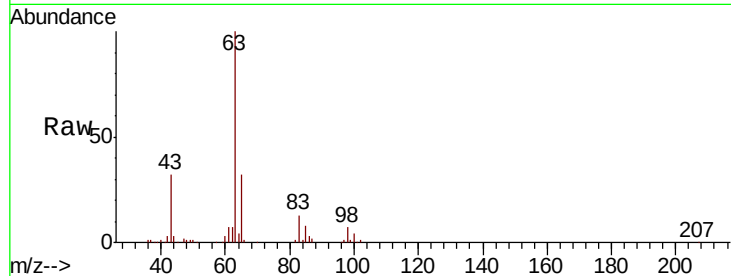
ClientSampled :

VN1212WBS01

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	7.0	3.0	9.2	
100	3.7	1.8	5.5	

Manual Integrations
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12/13/2018 1:29:19 PM



#22

cis-1,2-Dichloroethene

Concen: 20.592 ug/l

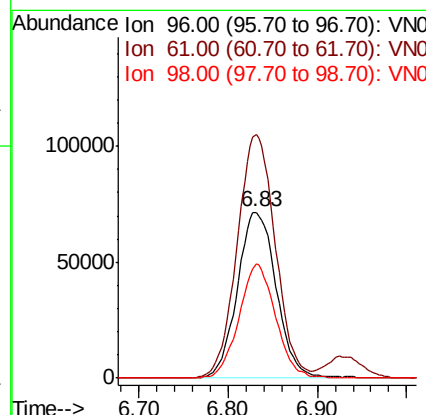
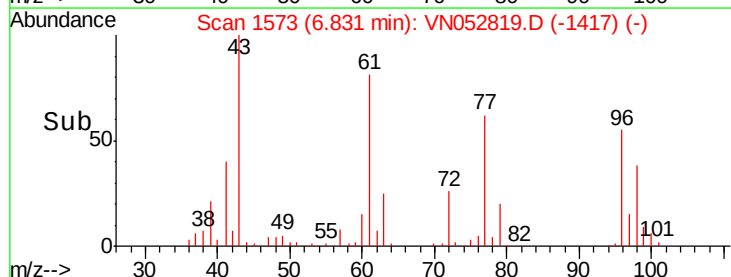
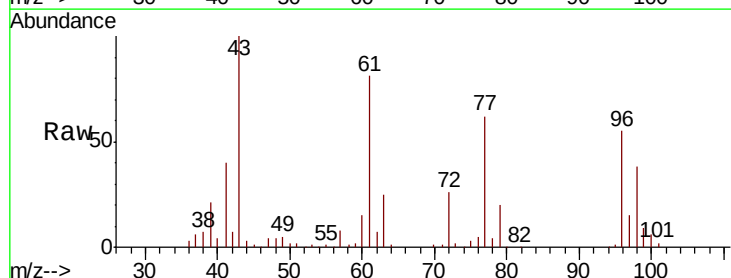
RT: 6.83 min Scan# 1573

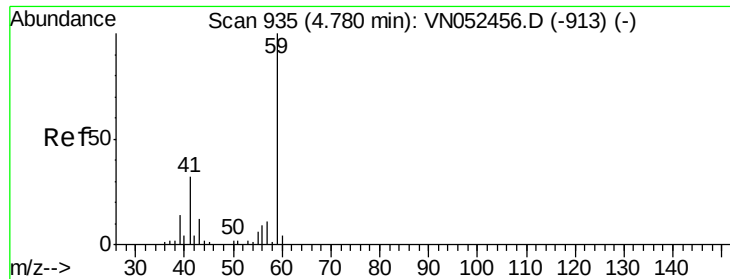
Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	144.1	116.7	175.1	
98	64.9	50.8	76.2	





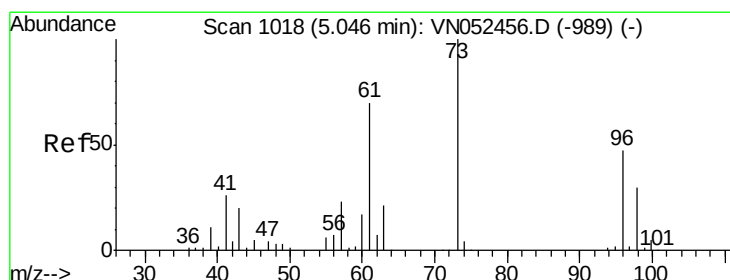
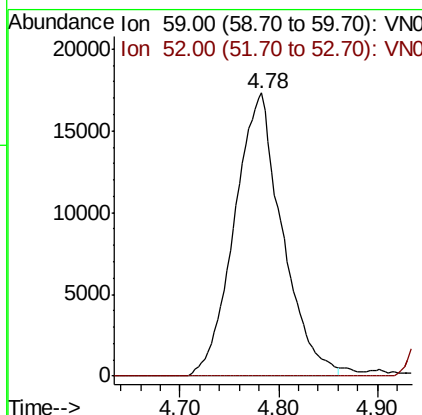
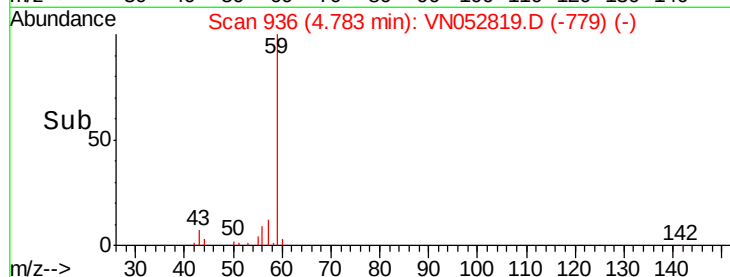
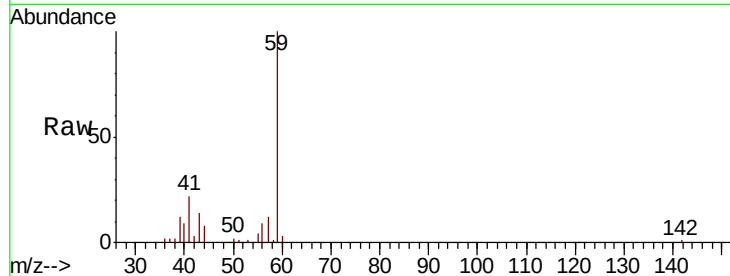
#23
tert-Butyl Alcohol
Concen: 127.443 ug/l
RT: 4.78 min Scan# 936
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

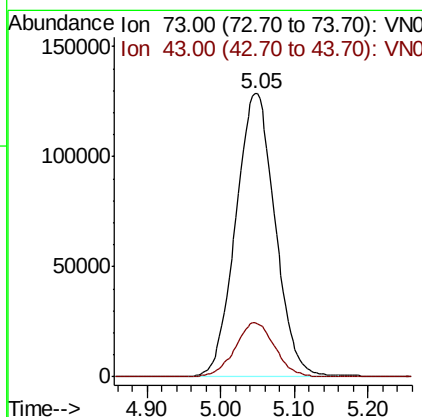
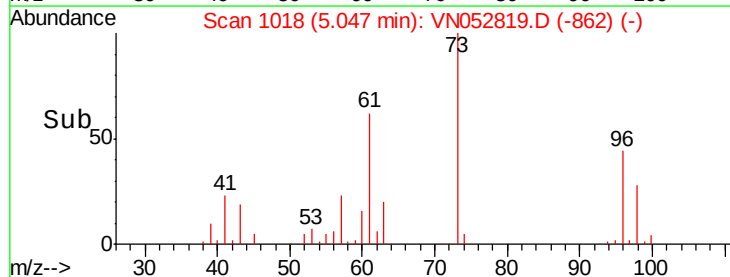
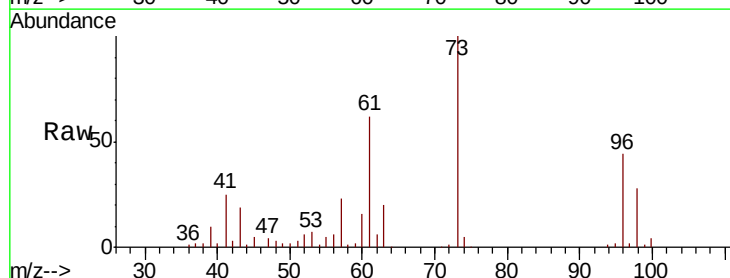
Manual Integrations
APPROVED

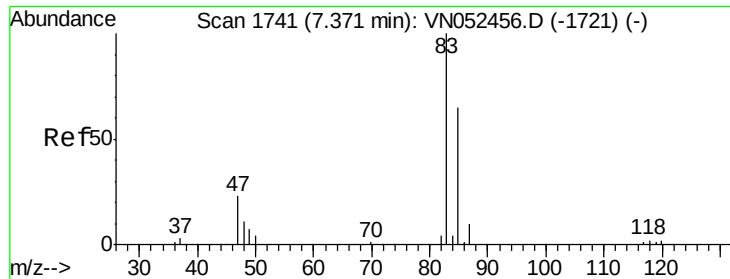
MMDadoda
12/13/2018 1:29:19 PM



#24
Methyl tert-Butyl Ether
Concen: 21.509 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
73	100		
43	18.9	15.8	23.8





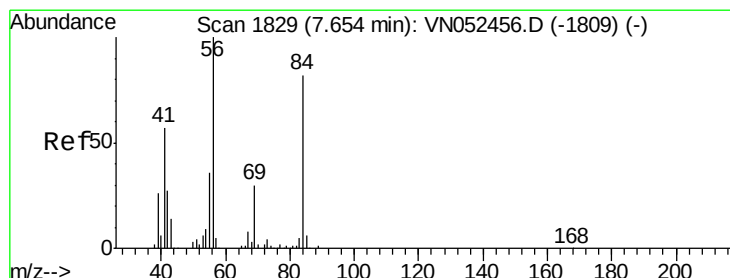
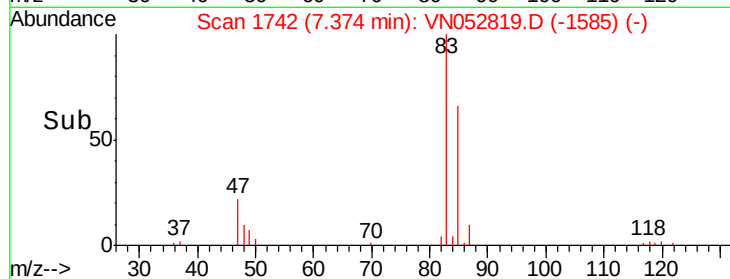
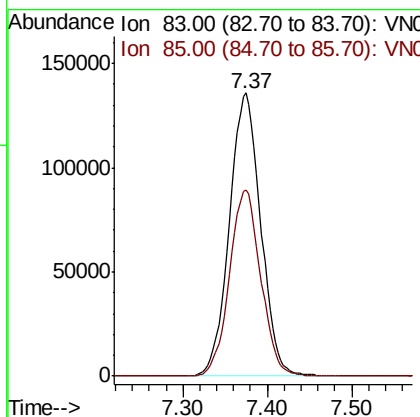
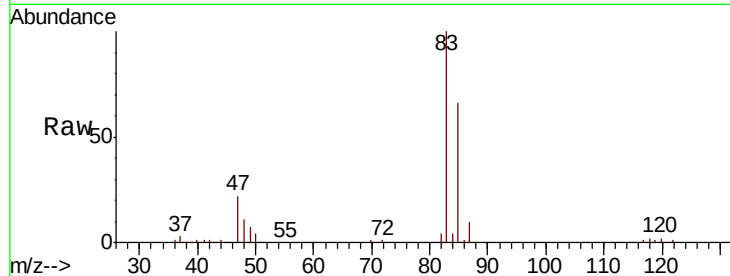
#25
Chloroform
Concen: 20.551 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	83	Resp	351292
Ion Ratio	100	Lower	Upper
83	100		
85	66.0	51.7	77.5

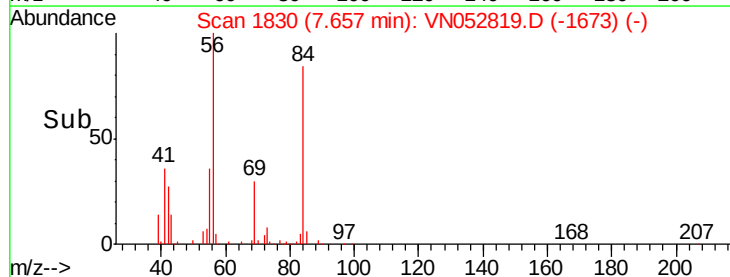
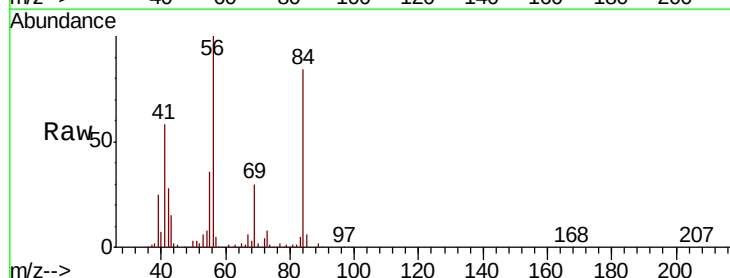
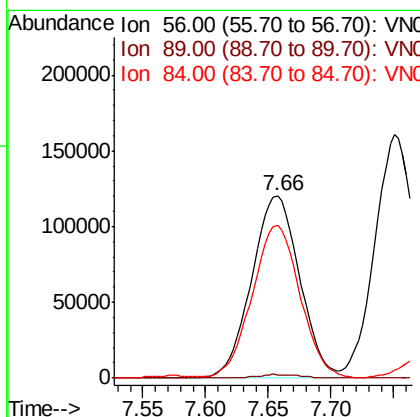
Manual Integrations
APPROVED

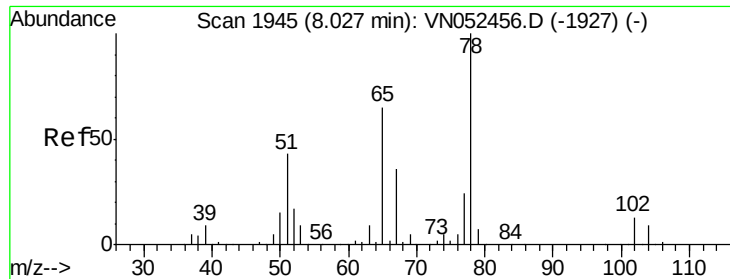
MMDadoda
12/13/2018 1:29:19 PM



#26
Cyclohexane
Concen: 19.182 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	56	Resp	320557
Ion Ratio	100	Lower	Upper
56	100		
89	1.8	0.5	0.7#
84	83.7	66.2	99.2





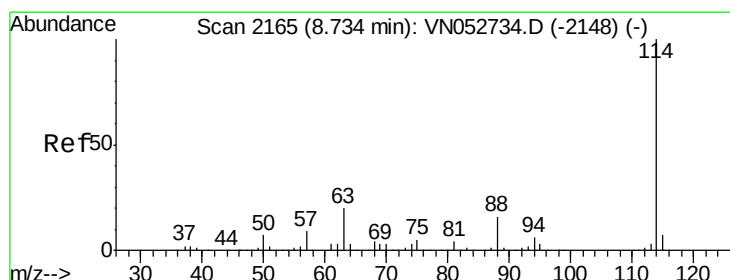
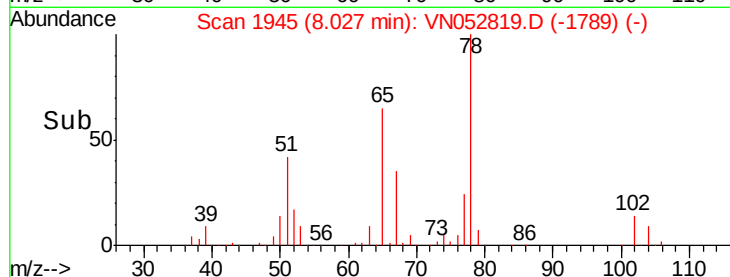
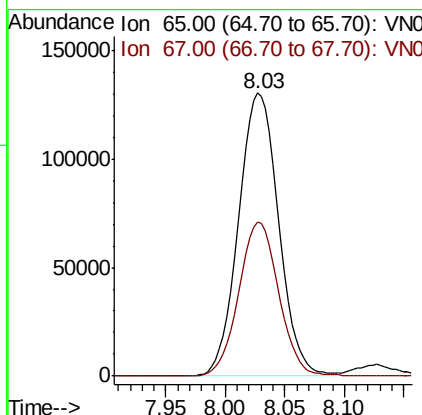
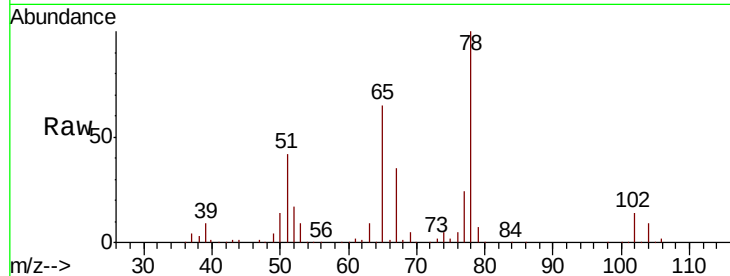
#27
 1,2-Dichloroethane-d4
 Concen: 19.182 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.0	44.6	66.8

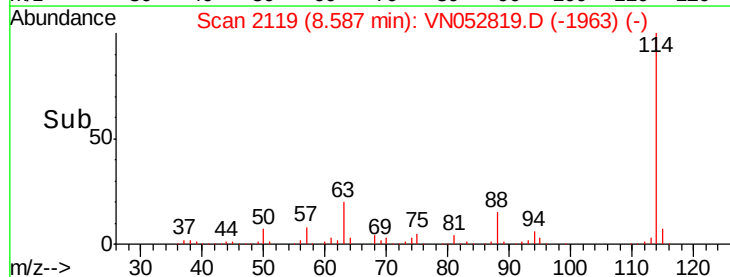
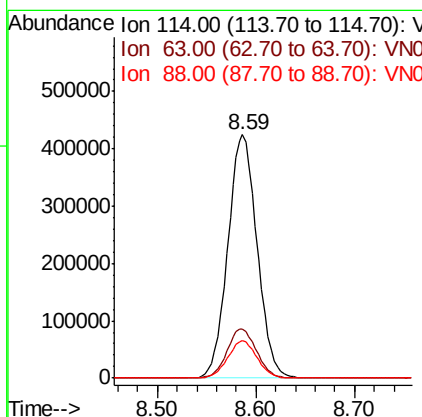
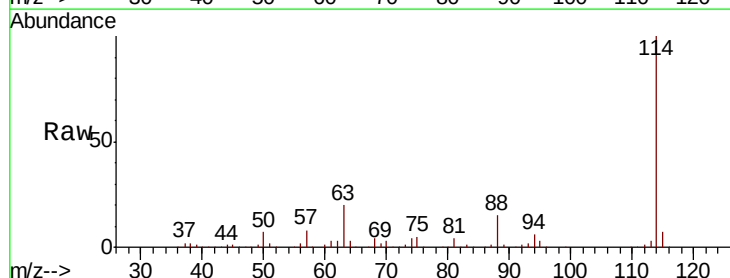
Manual Integrations
 APPROVED

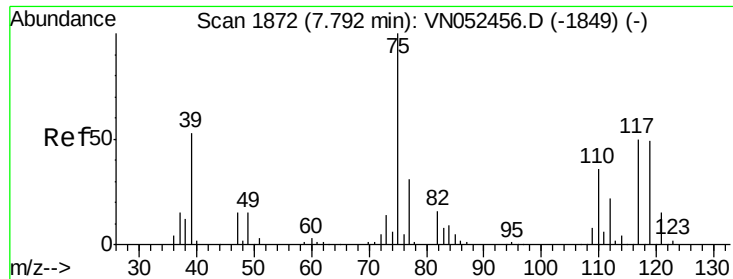
MMDadoda
 12/13/2018 1:29:19 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.3	16.9	25.3
88	15.4	12.8	19.2





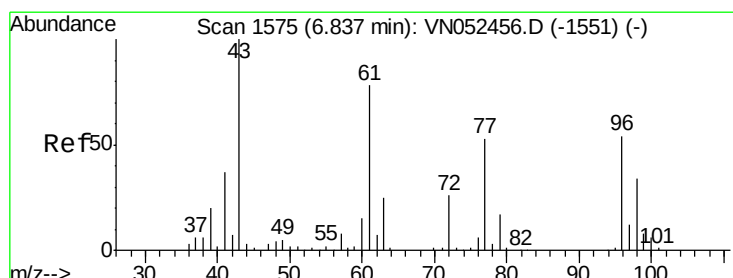
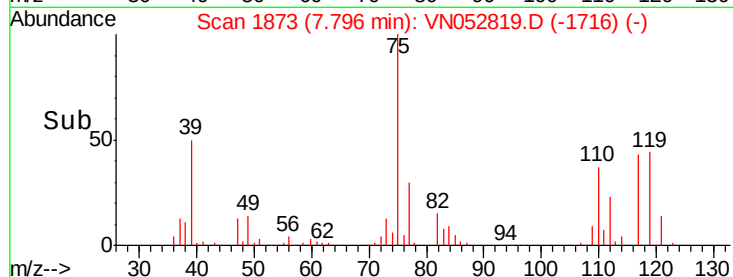
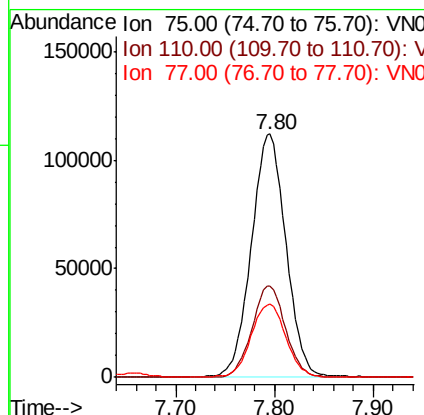
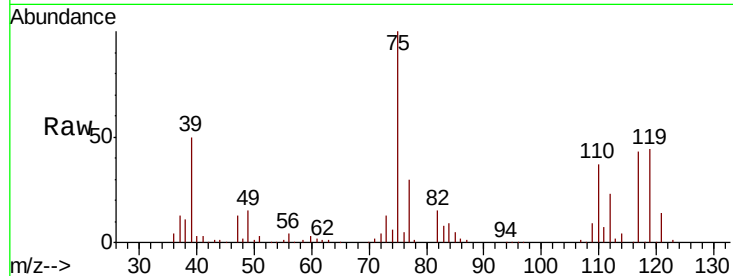
#29
 1,1-Dichloropropene
 Concen: 20.237 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBS01

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	36.1	0.0	70.2
77	30.6	0.0	62.6

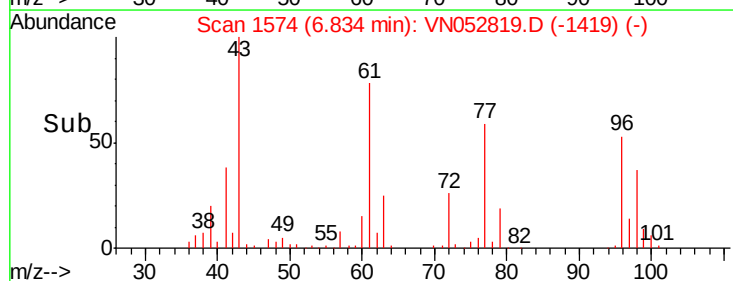
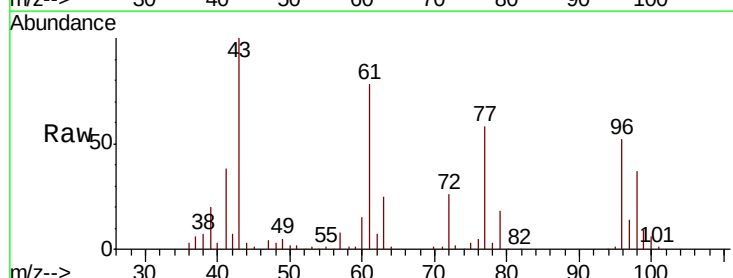
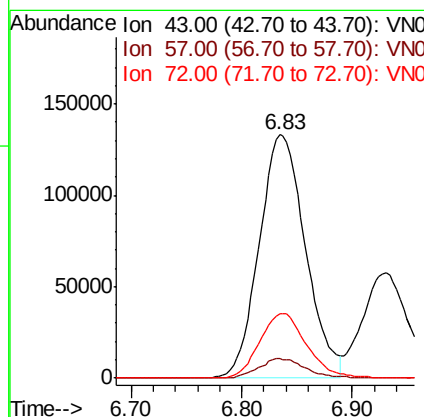
Manual Integrations
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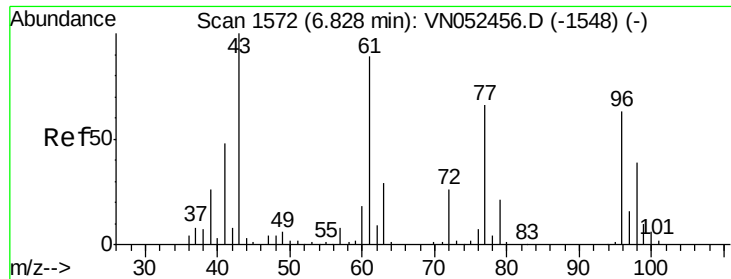
MMDadoda
 12/13/2018 1:29:19 PM



#30
 2-Butanone
 Concen: 107.399 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	8.2	6.2	9.4
72	27.1	21.0	31.6





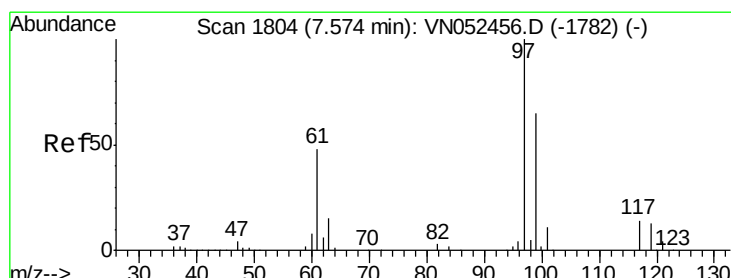
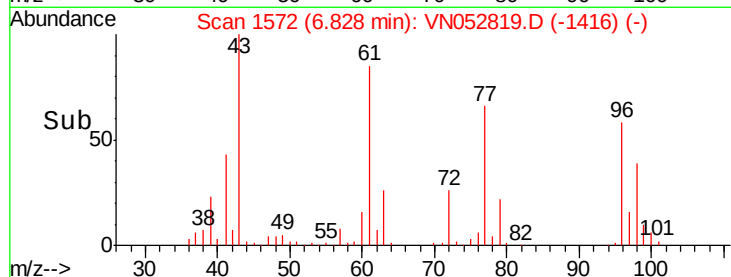
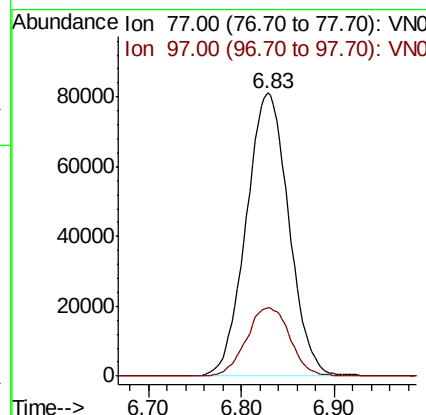
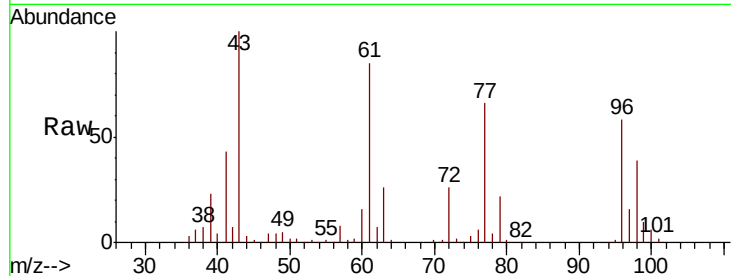
#31
 2,2-Dichloropropane
 Concen: 20.974 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBS01

Tot Ion: 77 Resp: 258945
 Ion Ratio Lower Upper
 77 100
 97 24.7 18.7 28.1

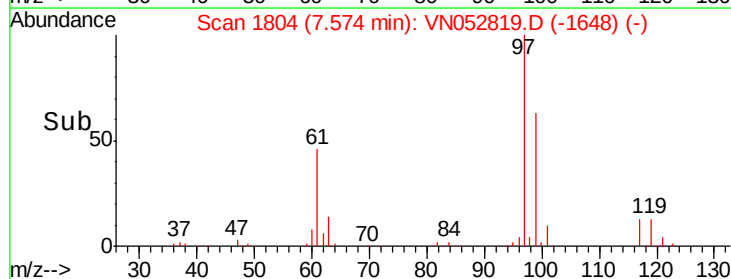
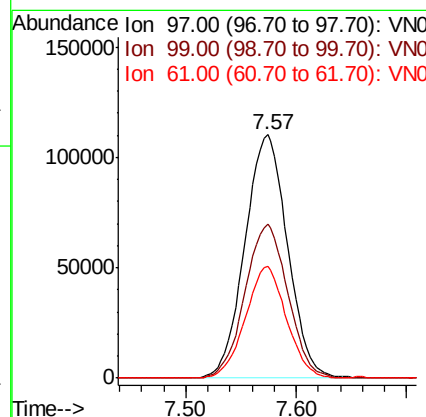
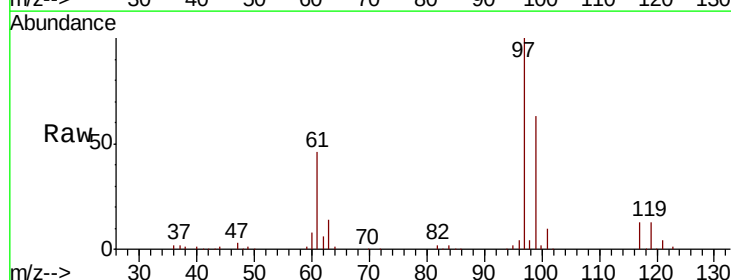
Manual Integrations
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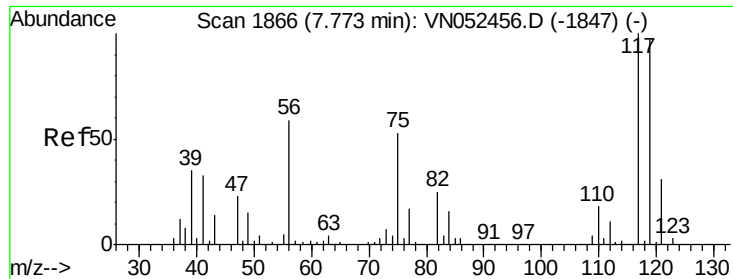
MMDadoda
 12/13/2018 1:29:19 PM



#32
 1,1,1-Trichloroethane
 Concen: 21.137 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Tgt Ion: 97 Resp: 294945
 Ion Ratio Lower Upper
 97 100
 99 63.4 50.9 76.3
 61 44.3 38.1 57.1





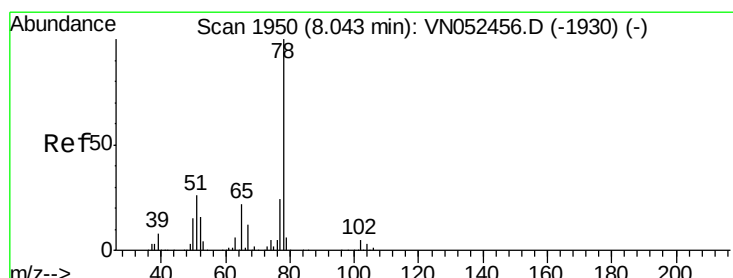
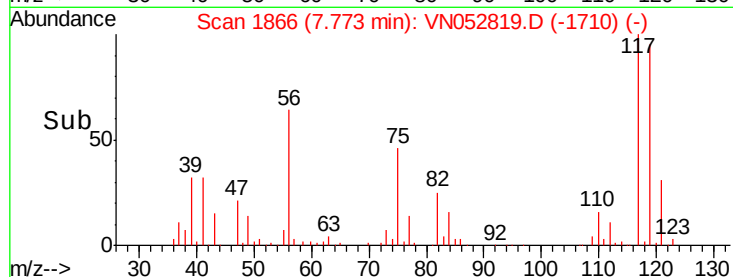
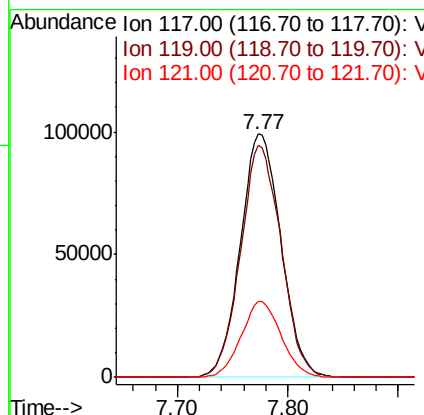
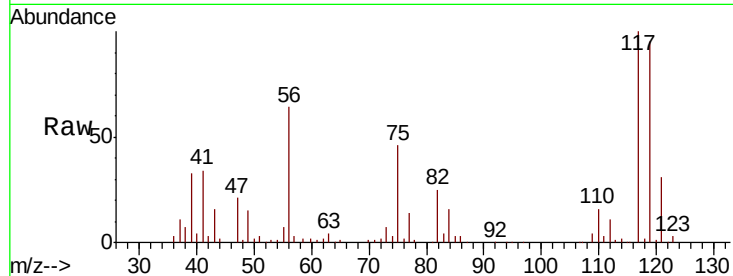
#33
Carbon Tetrachloride
Concen: 20.785 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.2	77.3	115.9
121	31.3	24.9	37.3

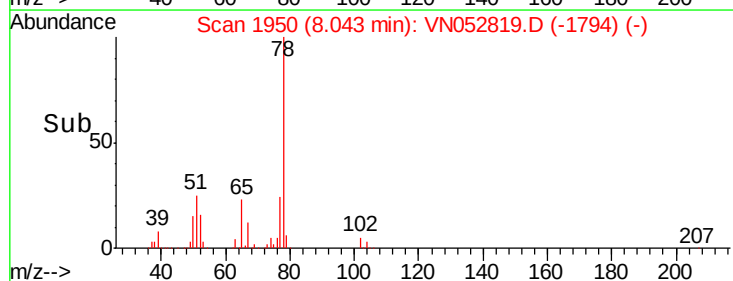
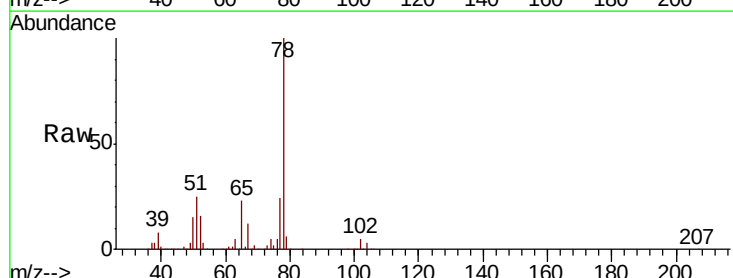
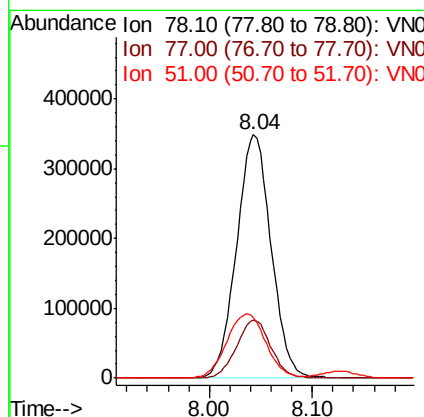
Manual Integrations
APPROVED

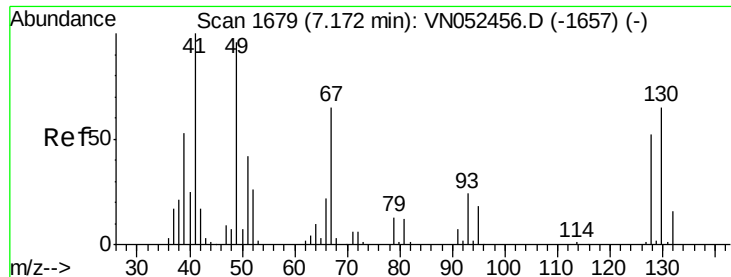
MMDadoda
12/13/2018 1:29:19 PM



#34
Benzene
Concen: 20.148 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6
51	24.7	20.5	30.7





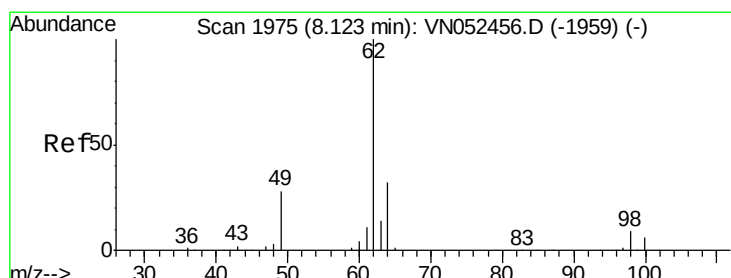
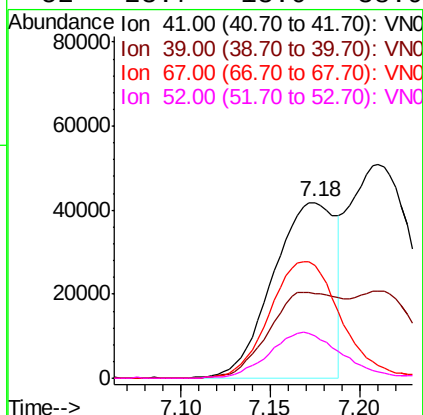
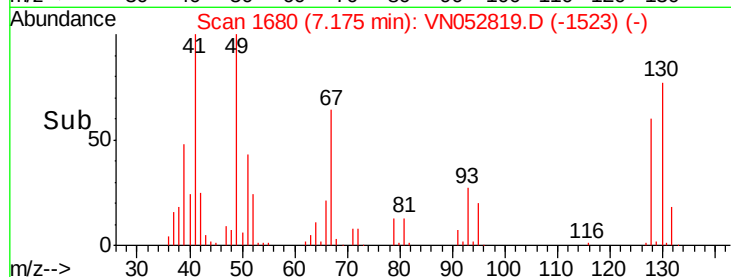
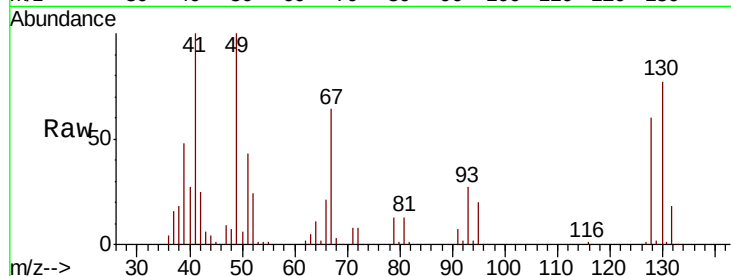
#35
Methacrylonitrile
Concen: 22.964 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	48.4	26.6	79.7
67	64.3	32.3	96.9
52	23.7	13.0	38.9

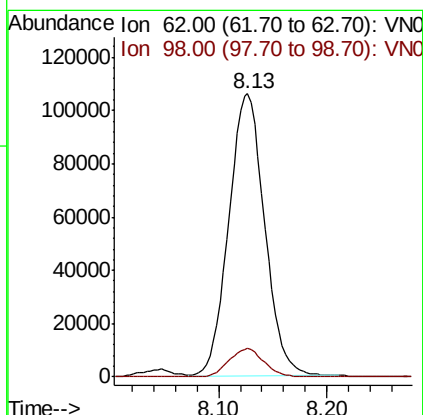
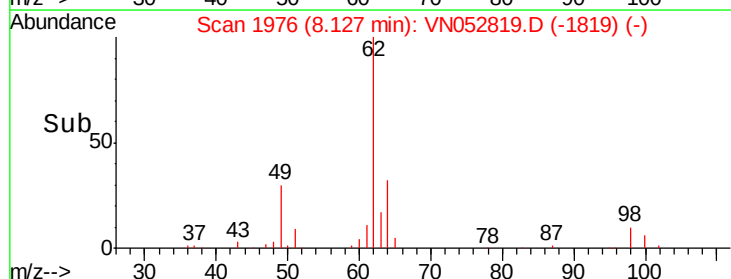
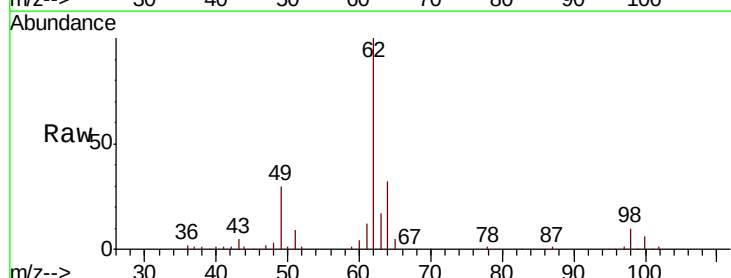
Manual Integrations
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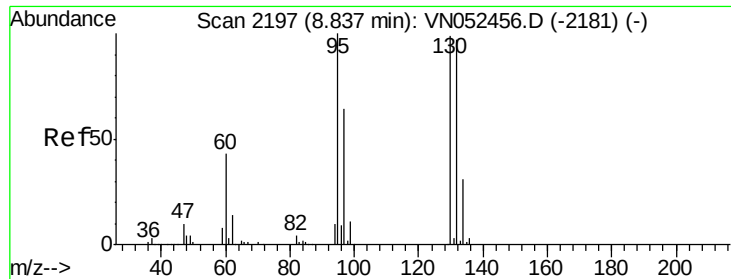
MMDadoda
12/13/2018 1:29:19 PM



#36
1,2-Dichloroethane
Concen: 20.105 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	7.4	11.2





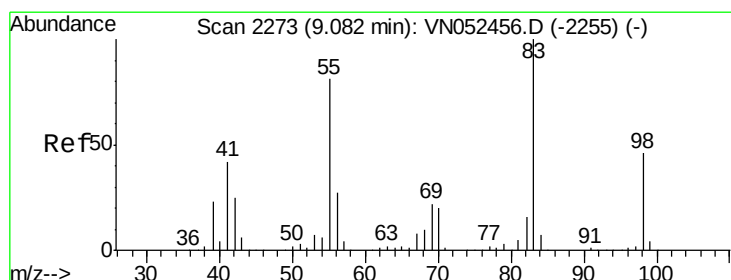
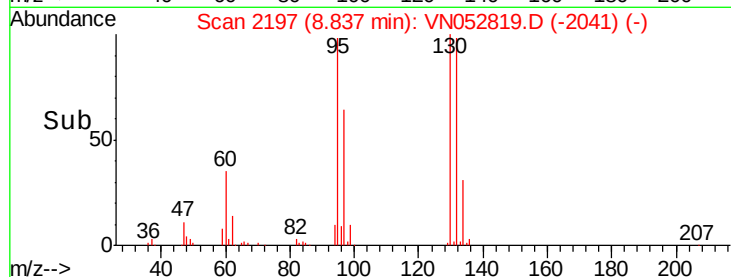
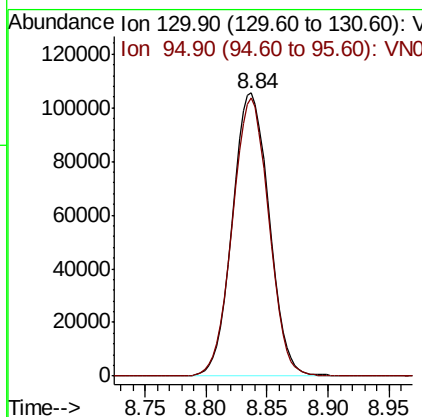
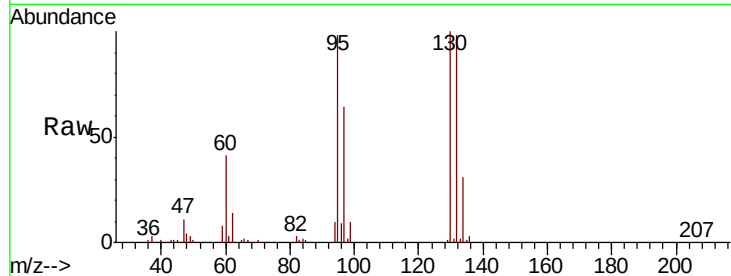
#37
 Trichloroethene
 Concen: 21.554 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBS01

Tot Ion	Ratio	Lower	Upper
130	100		
95	98.1	81.0	121.4

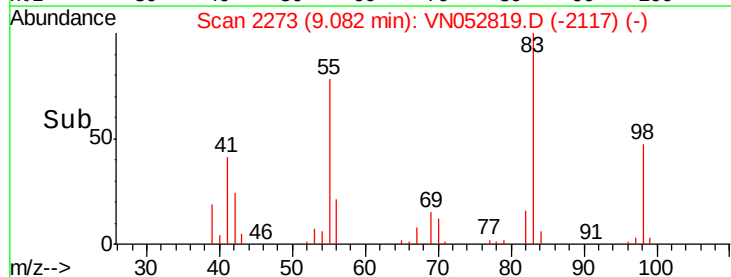
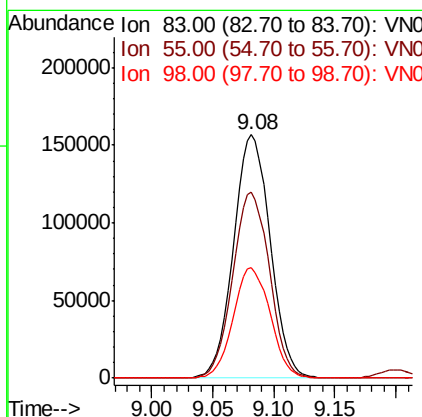
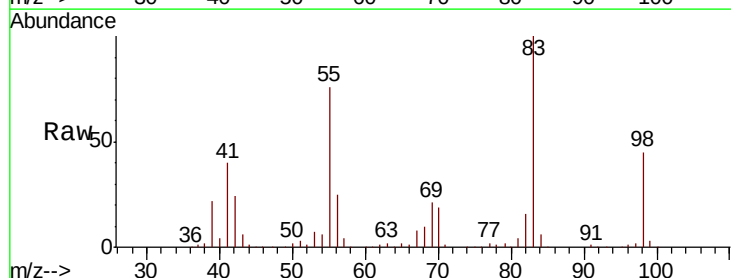
Manual Integrations
 APPROVED

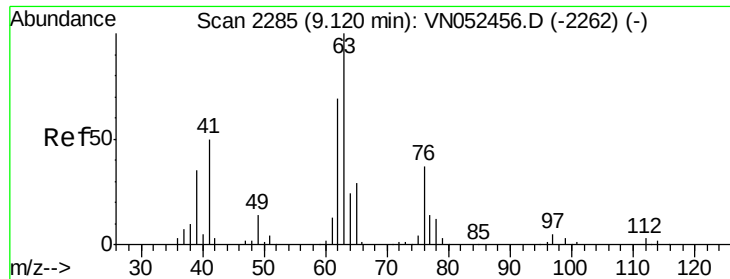
MMDadoda
 12/13/2018 1:29:19 PM



#38
 Methylcyclohexane
 Concen: 19.717 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
83	100		
55	76.6	39.8	119.4
98	45.7	22.9	68.5





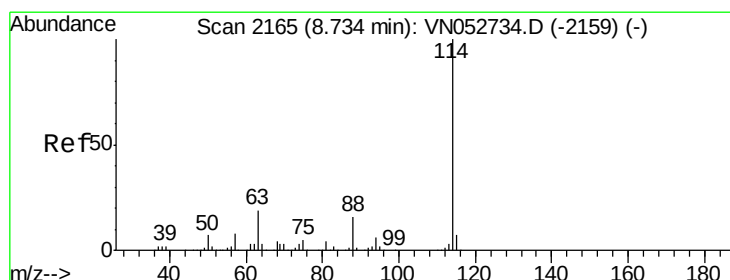
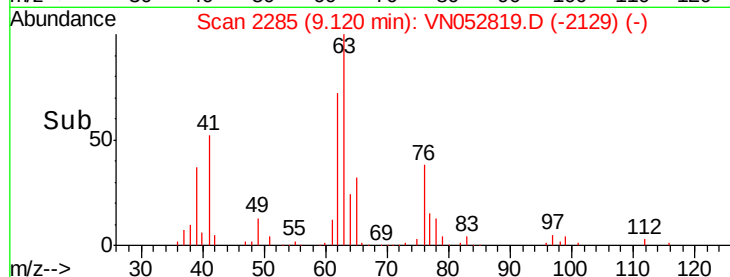
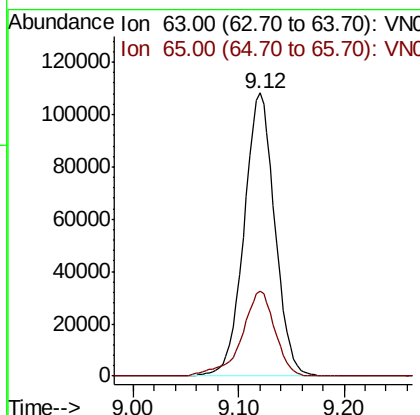
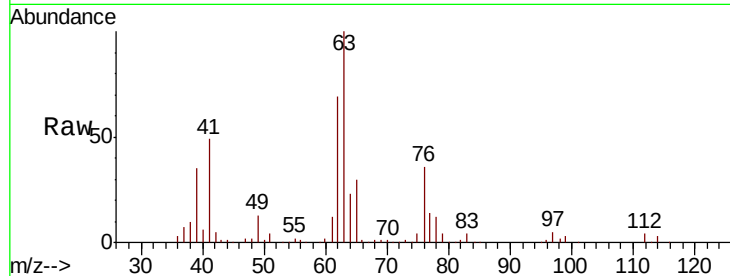
#39
 1,2-Dichloropropane
 Concen: 20.308 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBS01

Tot Ion	63	Resp	219492
Ion Ratio	Lower	Upper	
63	100		
65	30.0	23.6	35.4

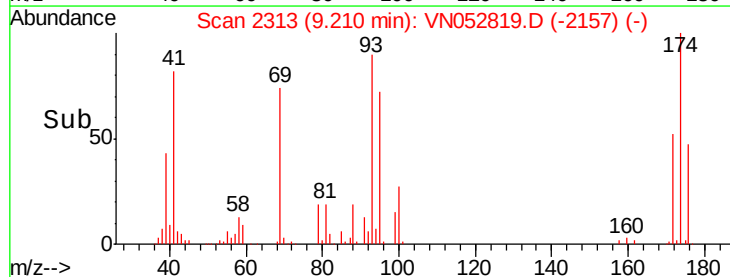
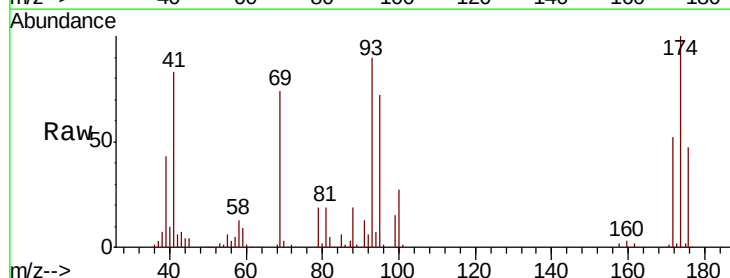
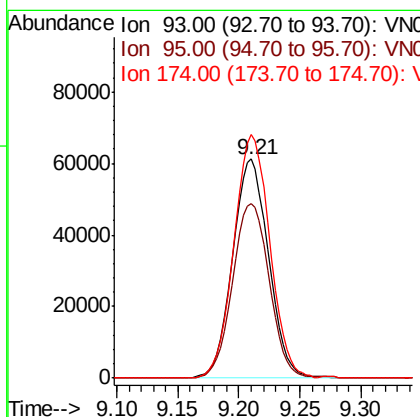
Manual Integrations
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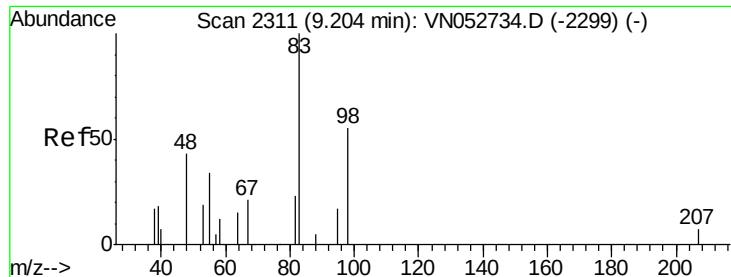
MMDadoda
 12/13/2018 1:29:19 PM



#40
 Dibromomethane
 Concen: 21.440 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Tgt Ion	93	Resp	125219
Ion Ratio	Lower	Upper	
93	100		
95	81.1	0.0	168.4
174	110.8	0.0	210.0





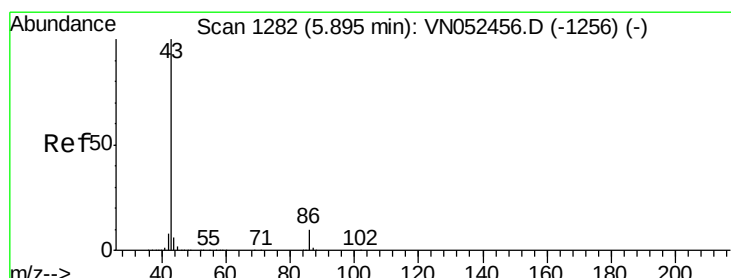
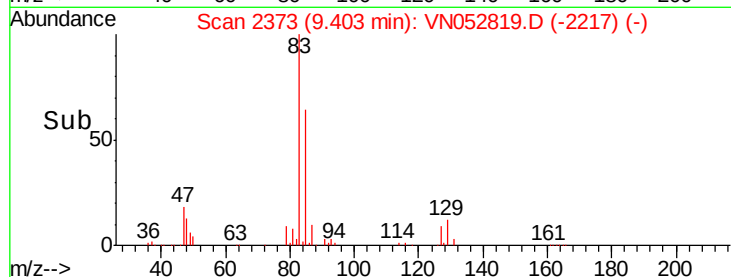
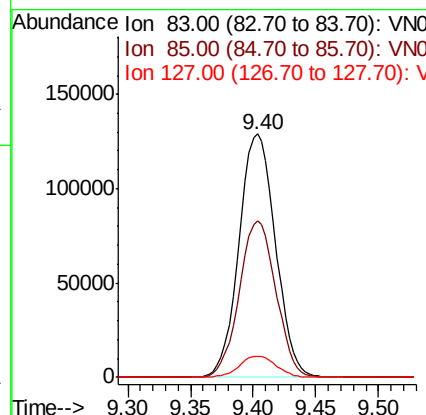
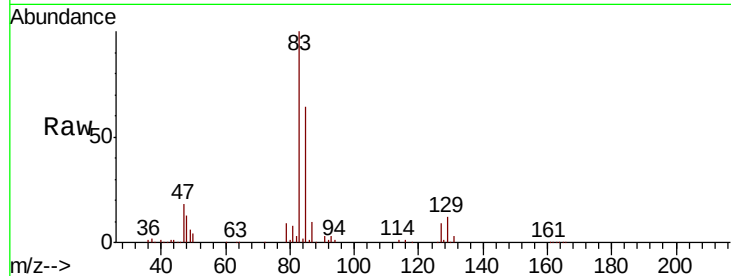
#41
Bromodichloromethane
Concen: 20.253 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	83	Resp	261341
Ion Ratio	100	Lower	Upper
83	100		
85	64.5	52.4	78.6
127	8.7	6.6	9.8

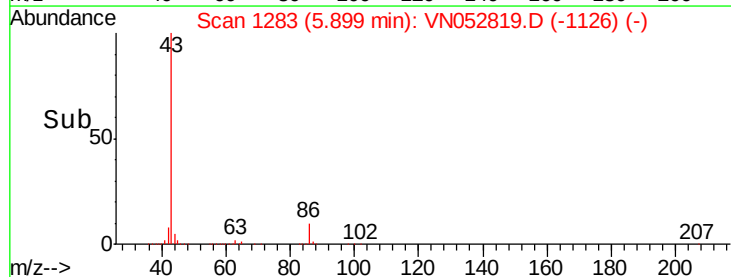
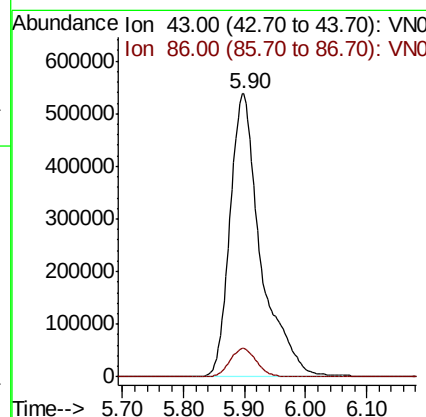
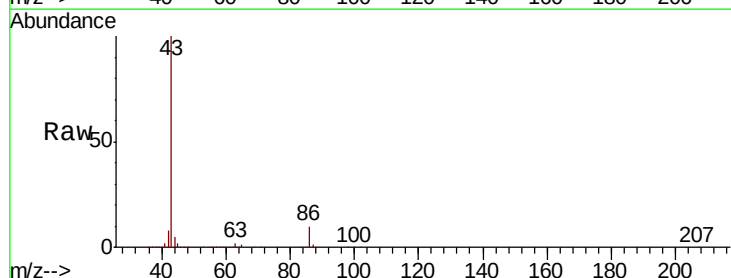
Manual Integrations
APPROVED

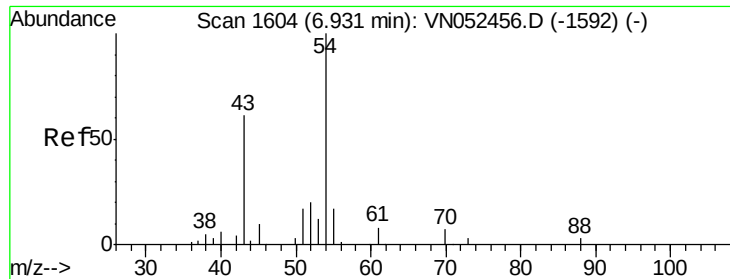
MMDadoda
12/13/2018 1:29:19 PM



#42
Vinyl Acetate
Concen: 96.985 ug/l
RT: 5.90 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	43	Resp	1883067
Ion Ratio	100	Lower	Upper
43	100		
86	8.8	6.5	9.7





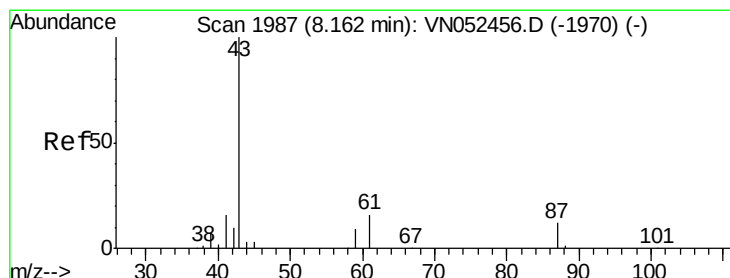
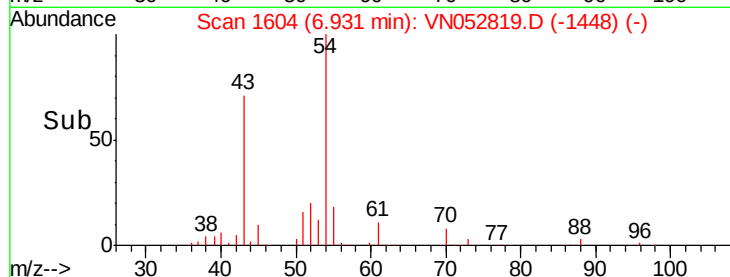
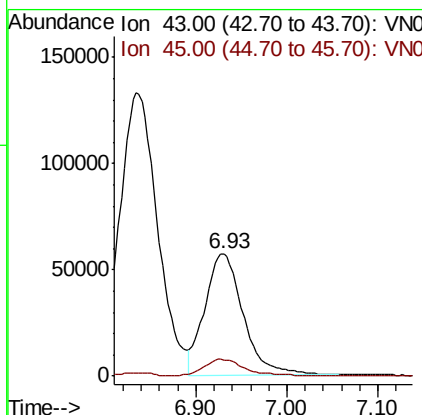
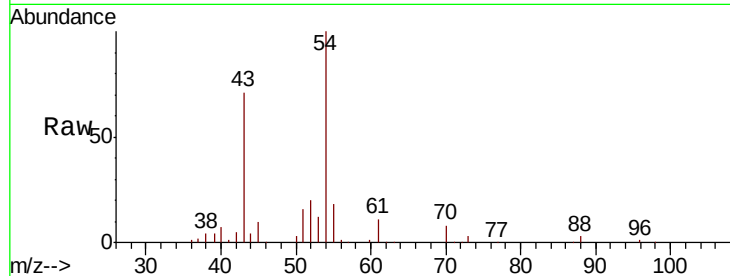
#43
Ethyl Acetate
Concen: 21.933 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	43	45	Ratio	Lower	Upper
167358	100	13.9		1.0	1.6#

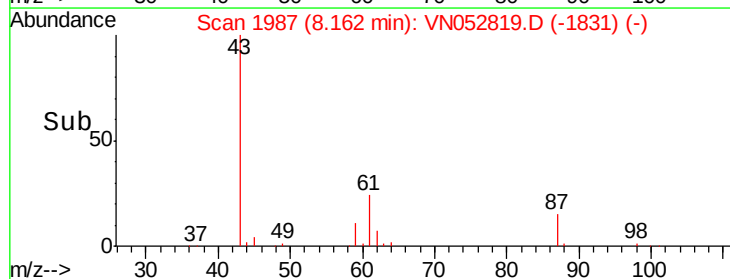
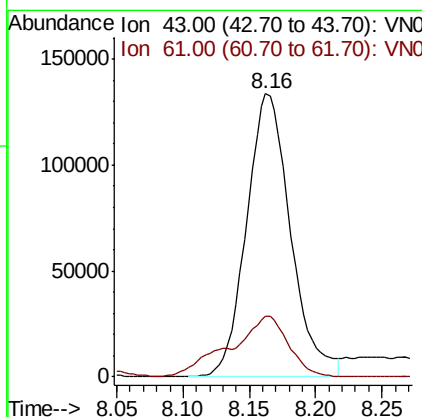
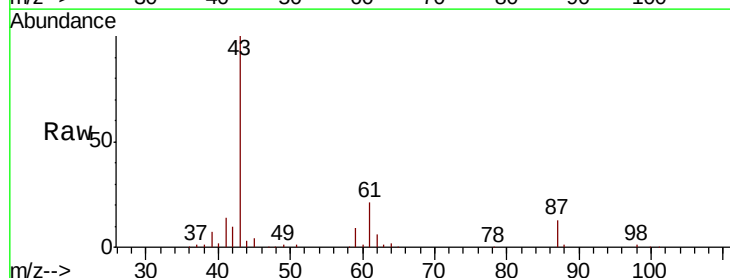
Manual Integrations
APPROVED

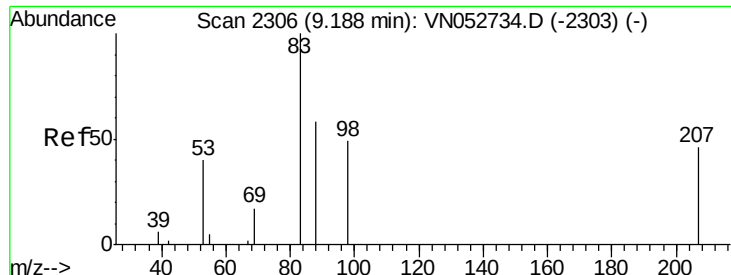
MMDadoda
12/13/2018 1:29:19 PM



#44
Isopropyl Acetate
Concen: 22.960 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	43	61	Ratio	Lower	Upper
307260	100	19.7		16.0	24.0





#45

1,4-Dioxane

Concen: 493.519 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

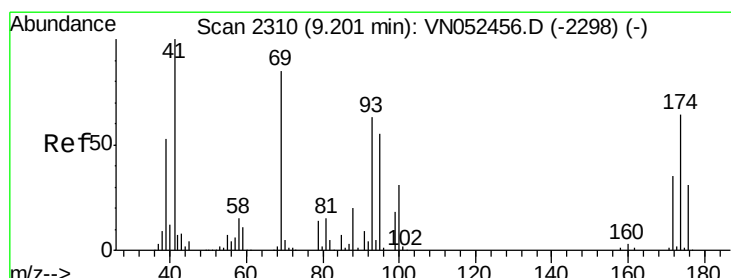
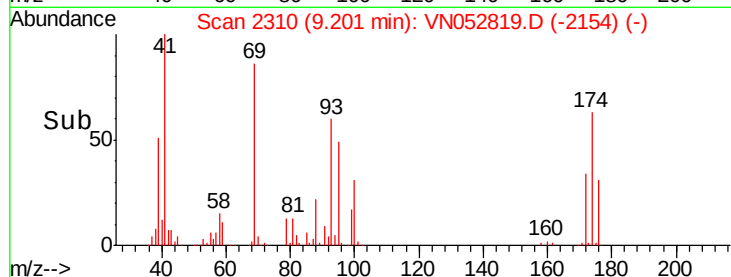
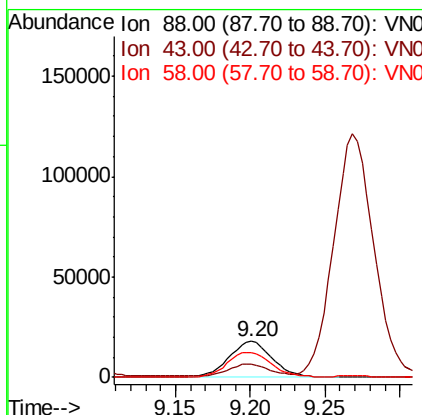
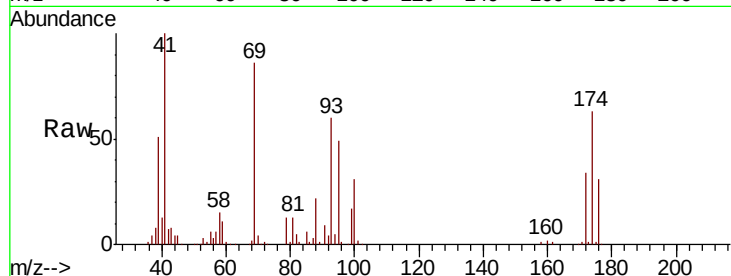
ClientSampleId :

VN1212WBS01

Tot Ion:	88	Resp:	36131
Ion	Ratio	Lower	Upper
88	100		
43	32.5	29.5	44.3
58	71.7	61.5	92.3

Manual Integrations
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MMDadoda
12/13/2018 1:29:19 PM



#46

Methyl methacrylate

Concen: 21.514 ug/l

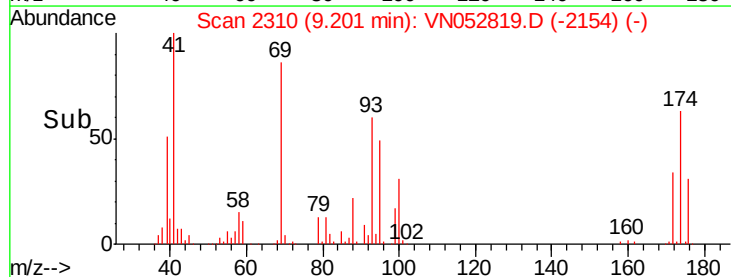
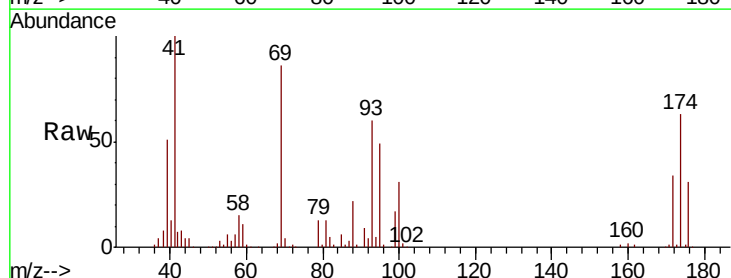
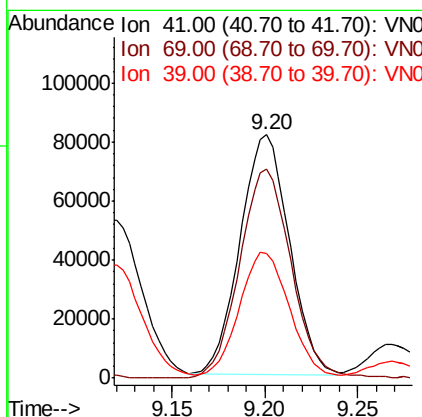
RT: 9.20 min Scan# 2310

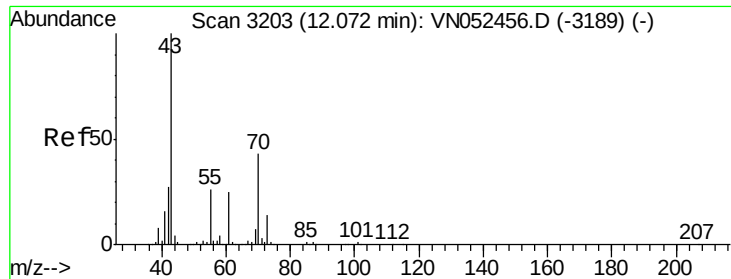
Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Tgt Ion:	41	Resp:	149489
Ion	Ratio	Lower	Upper
41	100		
69	87.1	42.5	127.6
39	50.9	26.3	78.9





#47

n-amvl Acetate

Concen: 22.326 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBS01

Tot Ion: 43 Resp: 247721

Ion Ratio Lower Upper

43 100

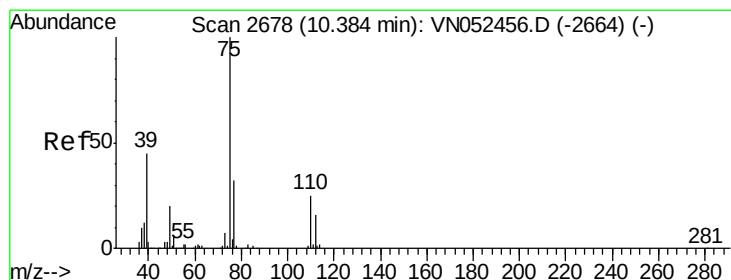
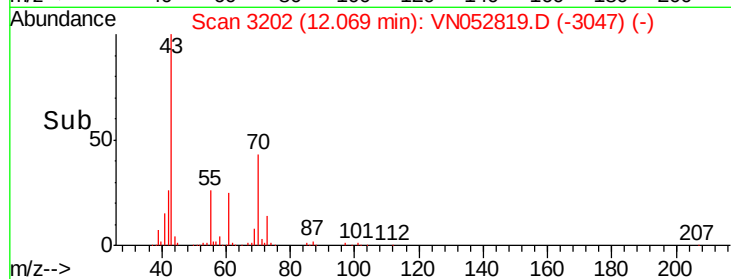
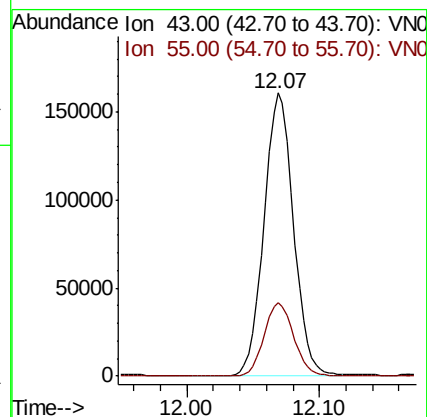
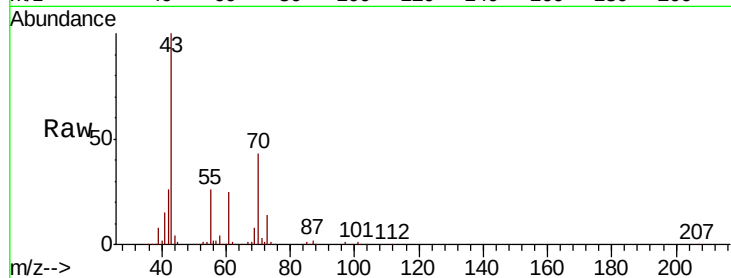
55 26.3 21.1 31.7

Manual Integrations

APPROVED

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12/13/2018 1:29:19 PM



#48

t-1,3-Dichloropropene

Concen: 20.600 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN052819.D

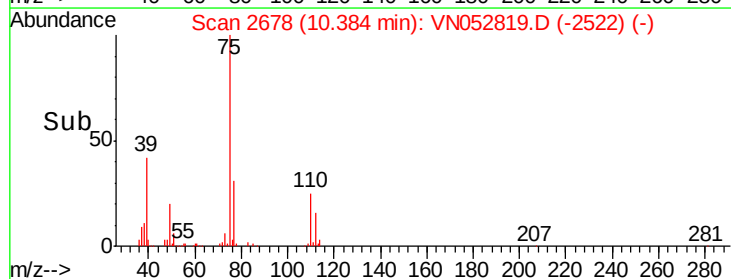
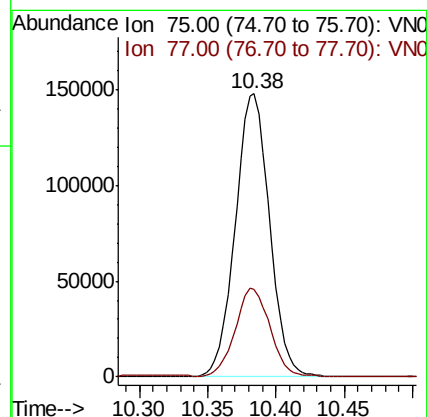
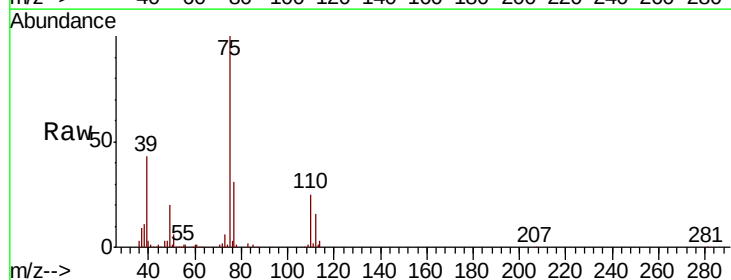
Acq: 12 Dec 2018 11:36

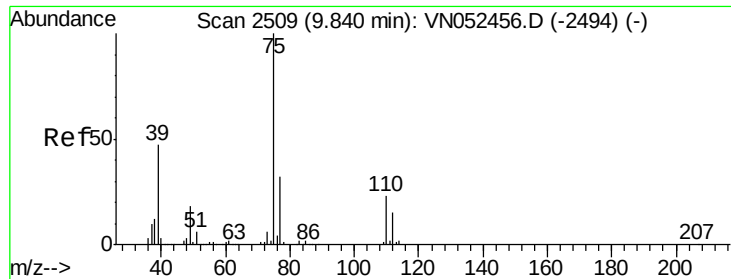
Tgt Ion: 75 Resp: 257742

Ion Ratio Lower Upper

75 100

77 30.8 25.6 38.4





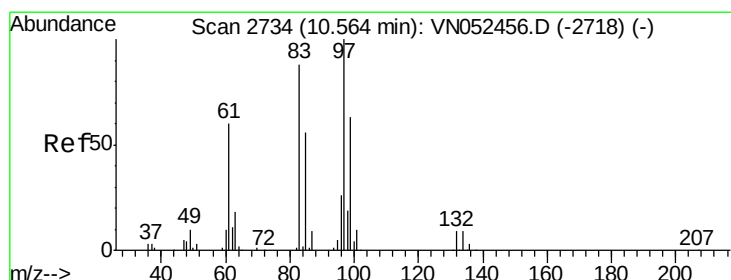
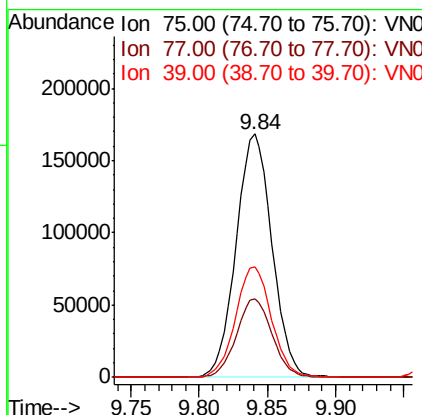
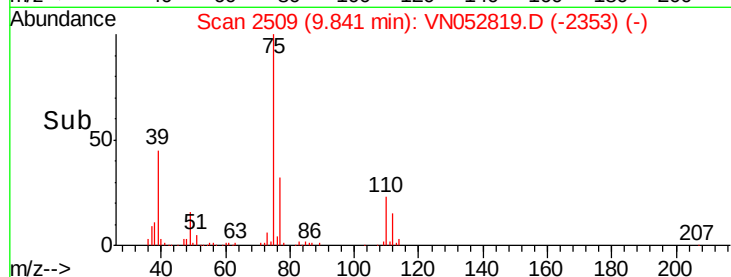
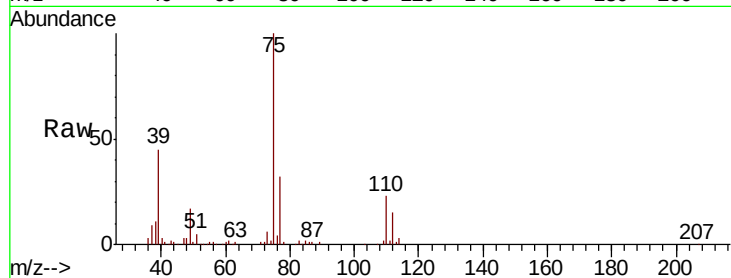
#49
 cis-1,3-Dichloropropene
 Concen: 20.236 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.4	38.0
39	45.3	37.3	55.9

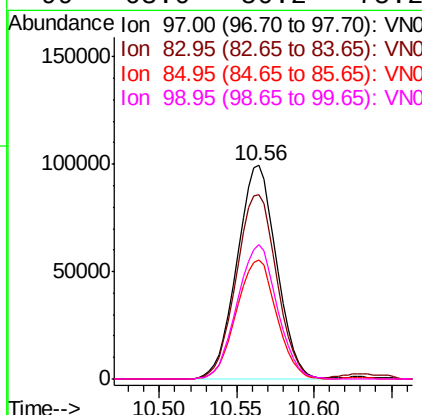
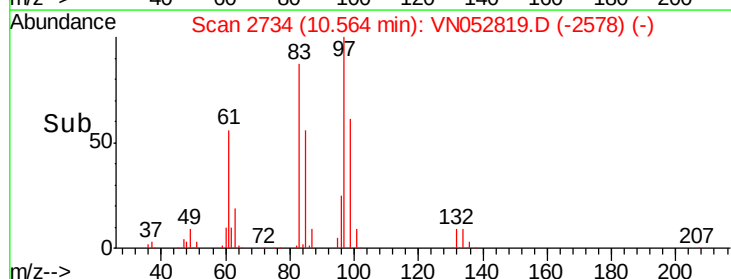
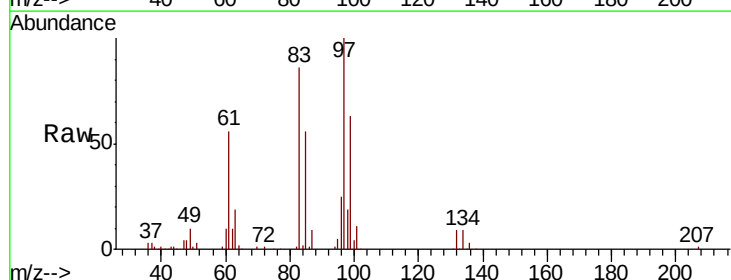
Manual Integrations
 APPROVED

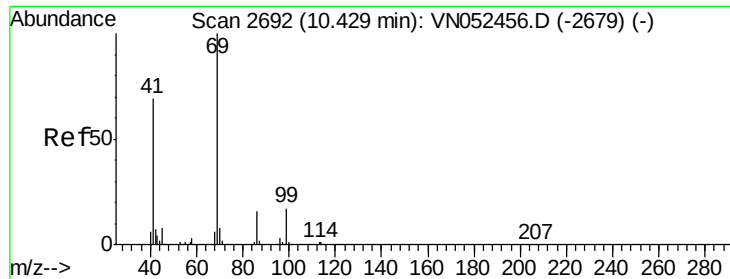
MMDadoda
 12/13/2018 1:29:19 PM



#50
 1,1,2-Trichloroethane
 Concen: 21.431 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.3	70.4	105.6
85	55.9	45.0	67.6
99	63.0	50.2	75.2





#51

Ethyl methacrylate

Concen: 21.874 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

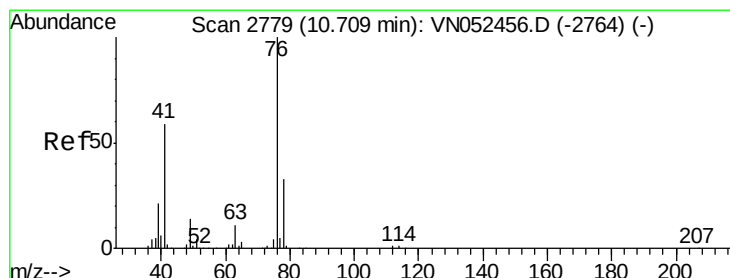
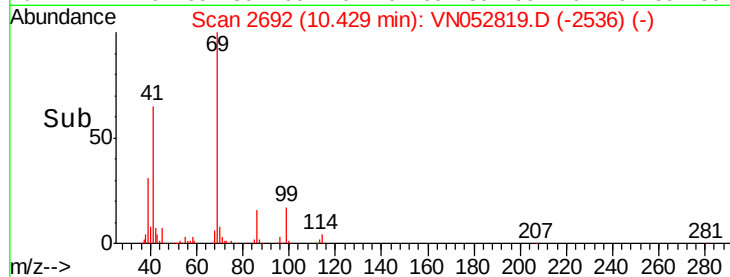
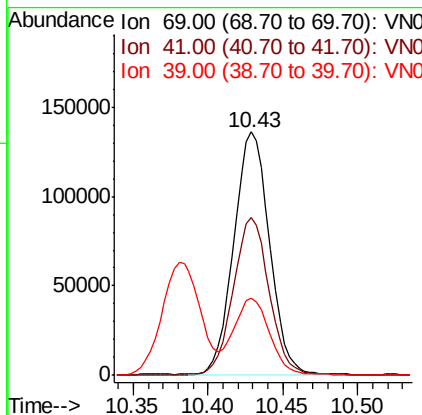
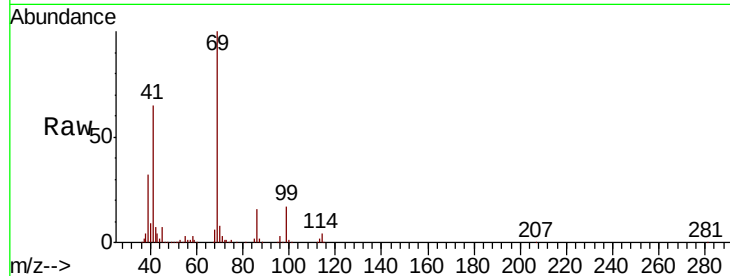
ClientSampleId :

VN1212WBS01

Tot Ion:	69	Resp:	227448
Ion	Ratio	Lower	Upper
69	100		
41	64.4	34.4	103.3
39	31.4	16.4	49.2

Manual Integrations
APPROVED

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12/13/2018 1:29:19 PM



#52

1,3-Dichloropropane

Concen: 21.078 ug/l

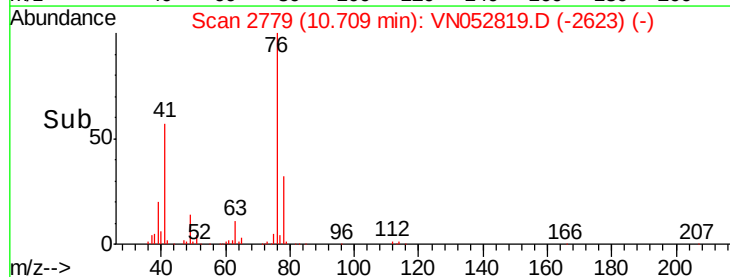
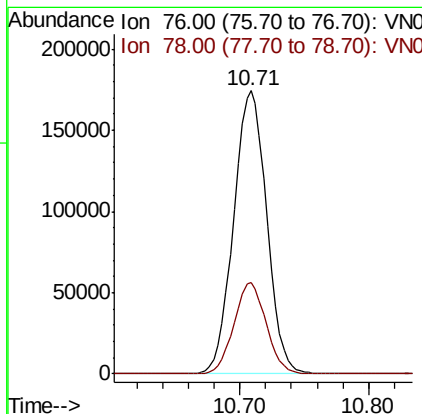
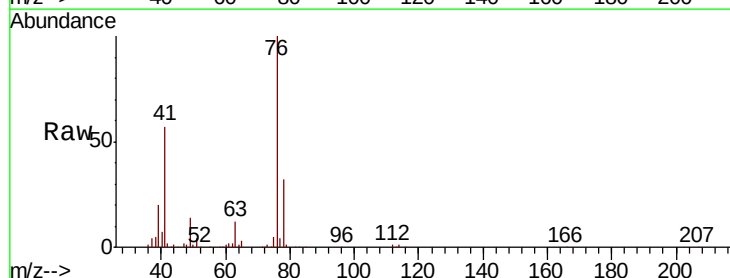
RT: 10.71 min Scan# 2779

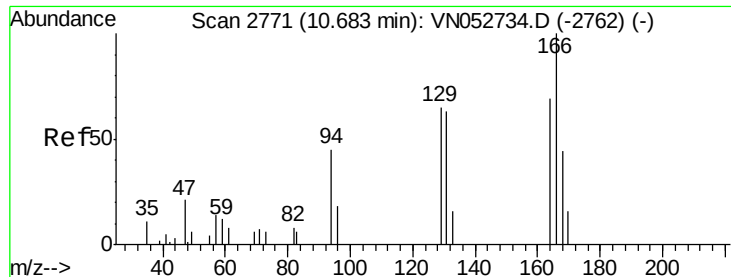
Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Tgt Ion:	76	Resp:	310612
Ion	Ratio	Lower	Upper
76	100		
78	31.5	0.0	64.8





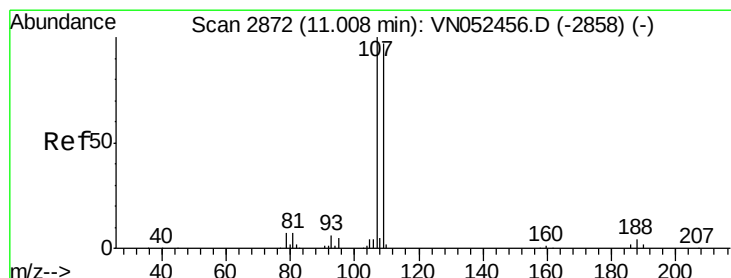
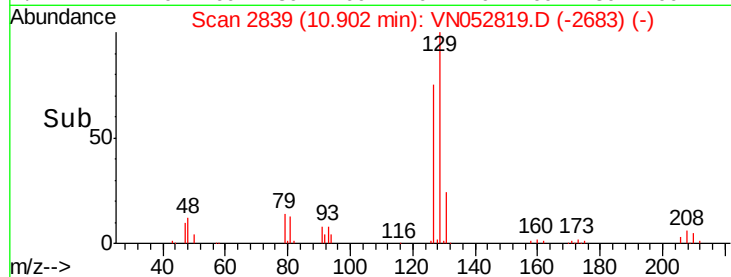
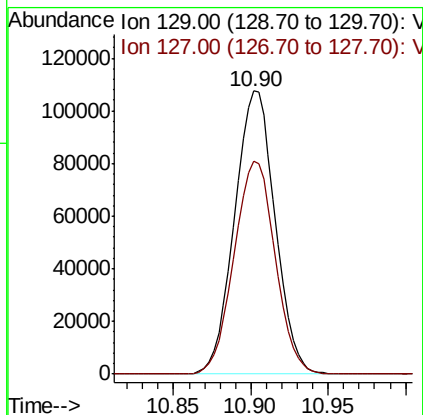
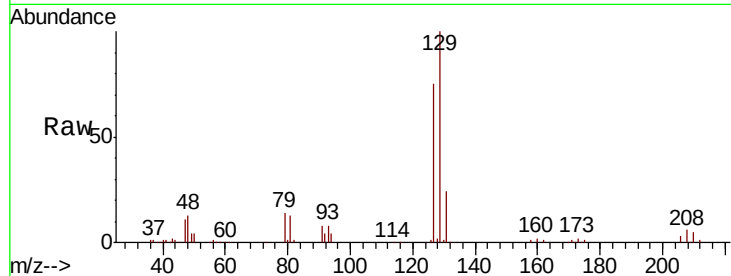
#53
 Dibromochloromethane
 Concen: 21.460 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBS01

Tot Ion:129 Resp: 195603
 Ion Ratio Lower Upper
 129 100
 127 76.5 37.6 112.8

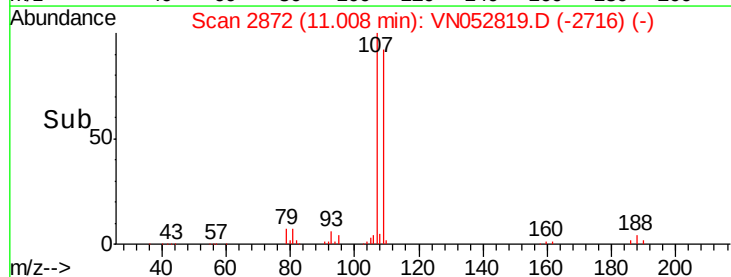
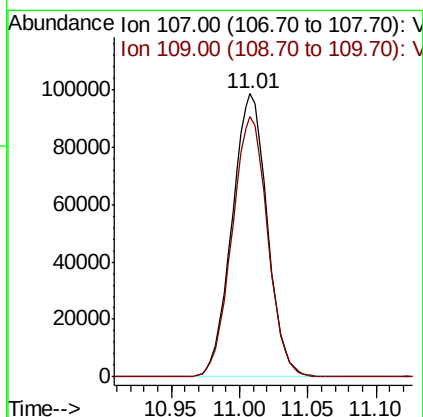
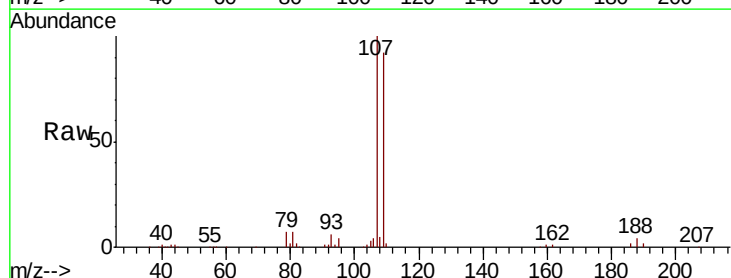
Manual Integrations
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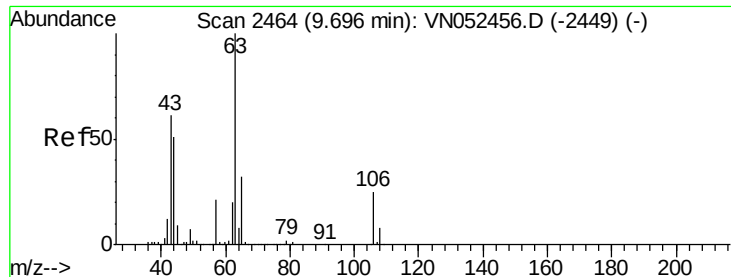
MMDadoda
 12/13/2018 1:29:19 PM



#54
 1,2-Dibromoethane
 Concen: 21.811 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Tgt Ion:107 Resp: 176452
 Ion Ratio Lower Upper
 107 100
 109 93.1 77.1 115.7





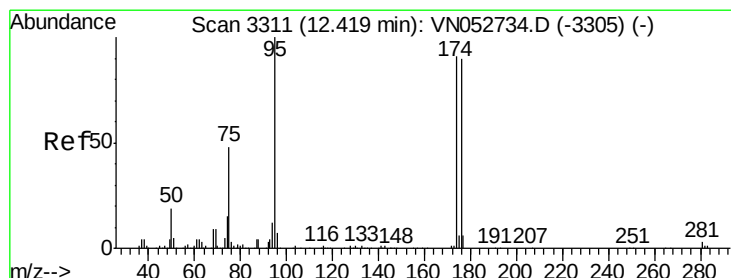
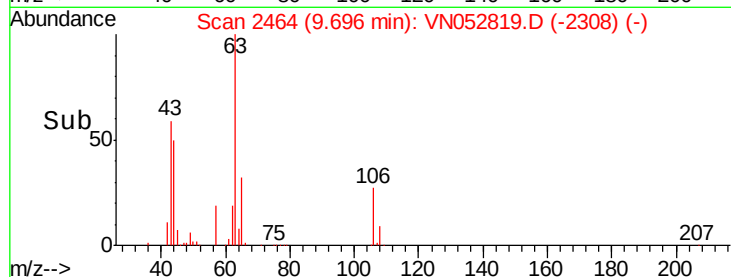
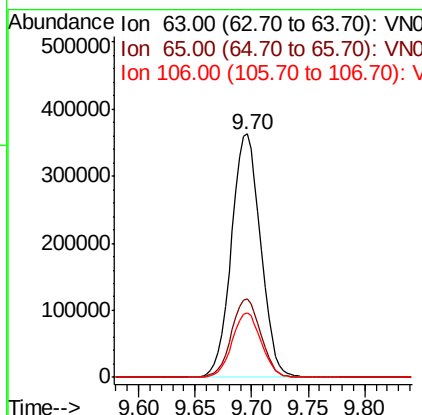
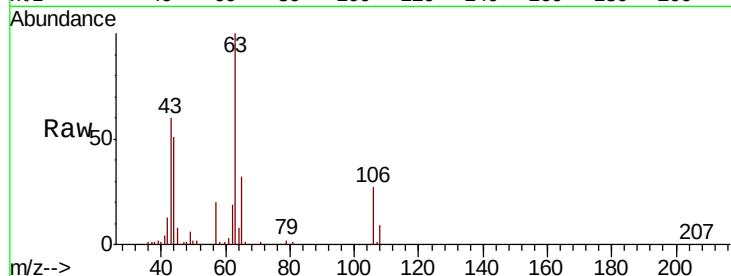
#55
2-Chloroethyl vinyl ether
Concen: 107.420 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.3	25.4	38.2
106	26.4	20.4	30.6

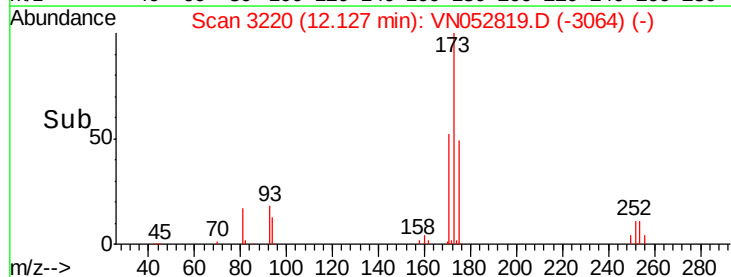
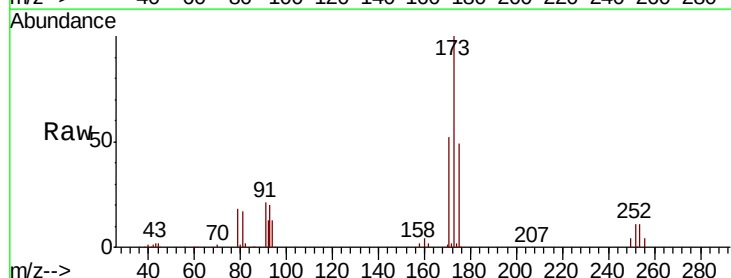
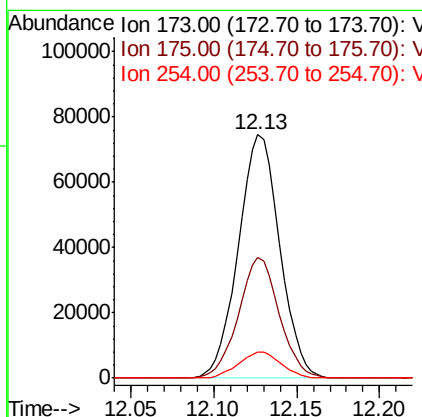
Manual Integrations
APPROVED

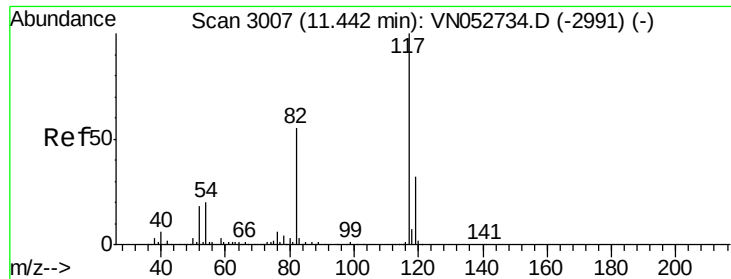
MMDadoda
12/13/2018 1:29:19 PM



#56
Bromoform
Concen: 21.749 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.7	58.1
254	10.8	8.4	12.6





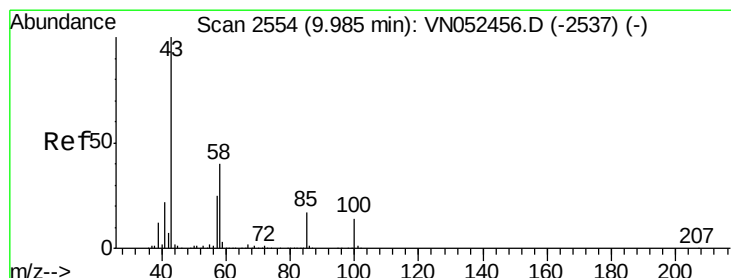
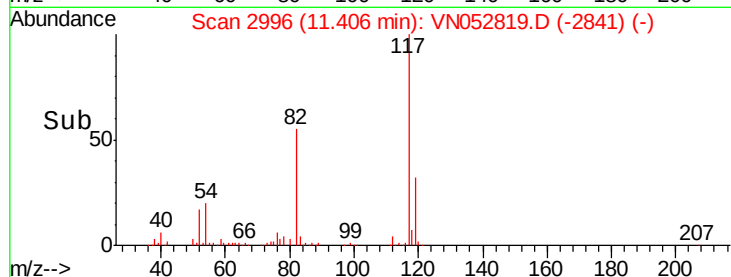
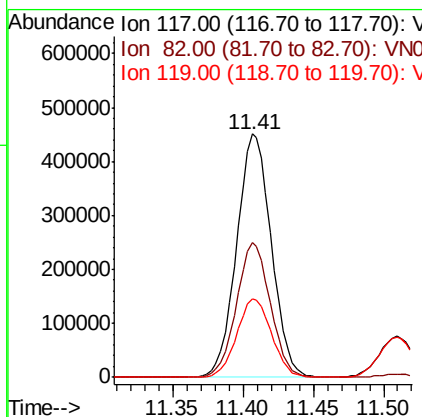
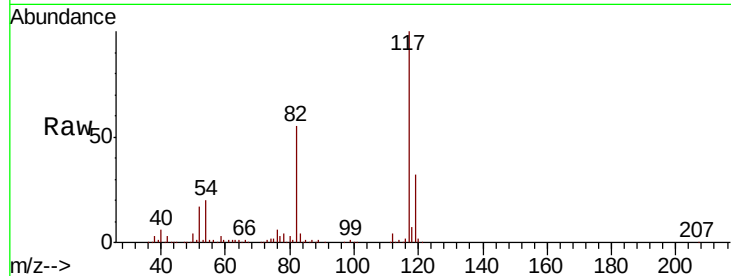
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.3	44.2	66.2
119	32.4	25.4	38.2

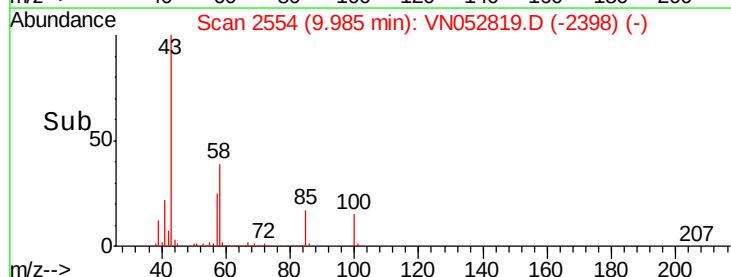
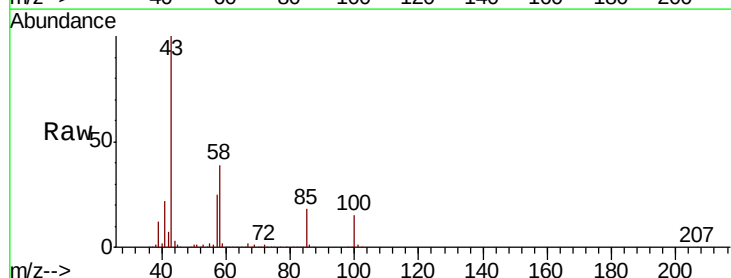
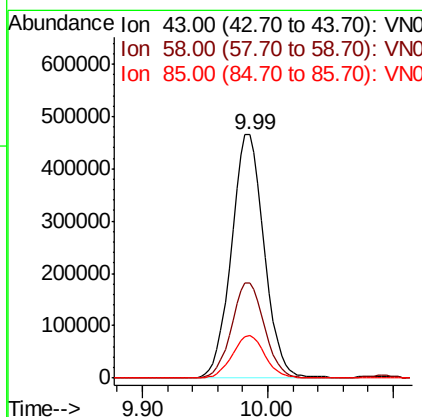
Manual Integrations
APPROVED

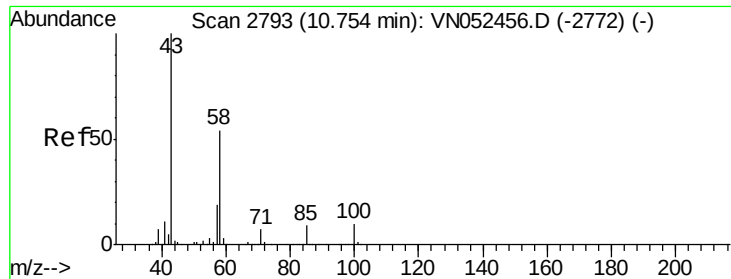
MMDadoda
12/13/2018 1:29:19 PM



#58
4-Methyl-2-Pentanone
Concen: 111.290 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.6	31.6	47.4
85	17.6	13.3	19.9





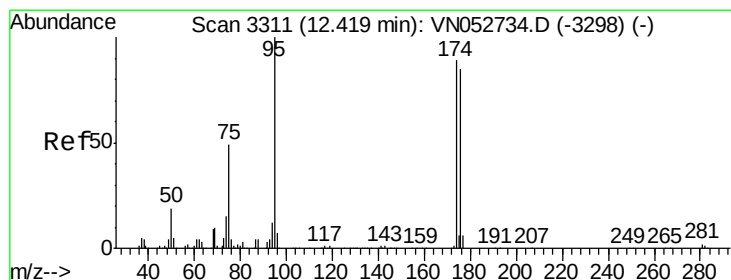
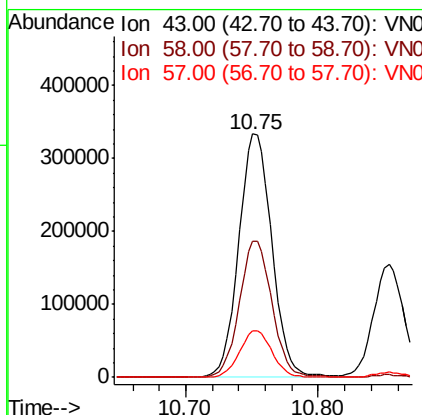
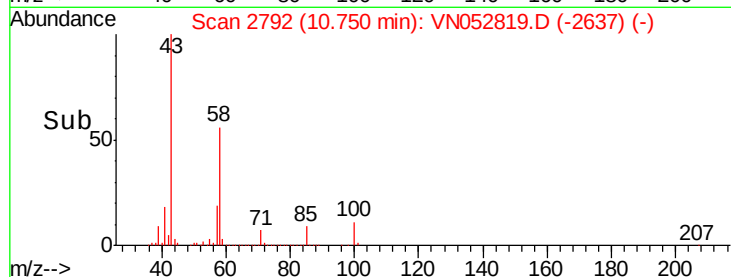
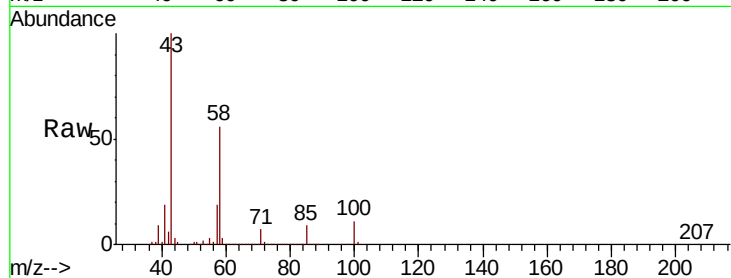
#59
2-Hexanone
Concen: 112.510 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.3	43.2	64.8
57	18.8	14.9	22.3

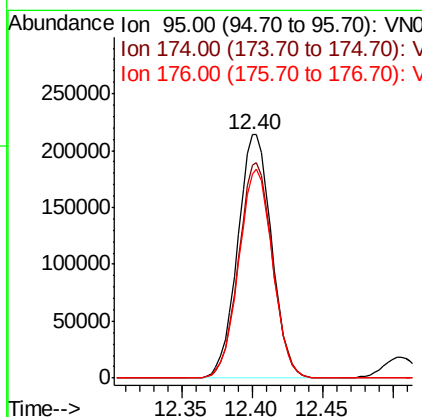
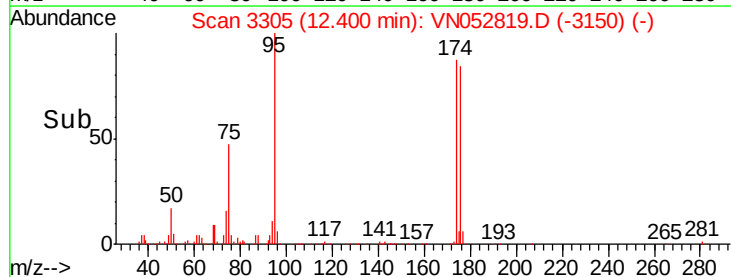
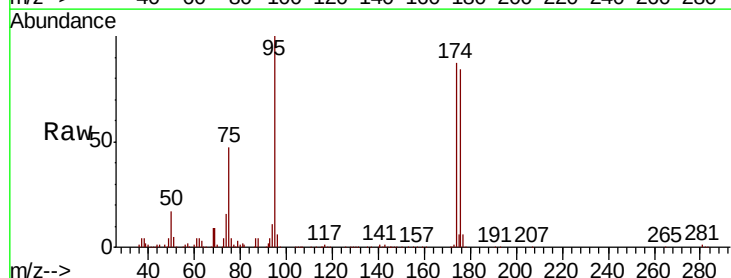
Manual Integrations
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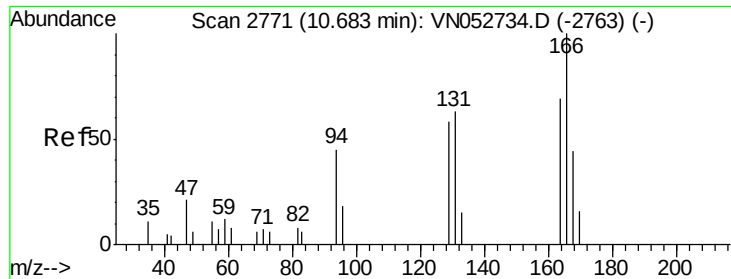
MMDadoda
12/13/2018 1:29:19 PM



#60
4-Bromofluorobenzene
Concen: 112.510 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.1	67.9	101.9
176	85.4	66.4	99.6





#61

Tetrachloroethene

Concen: 23.984 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBS01

Tot Ion:164 Resp: 229186

Ion Ratio Lower Upper

164 100

166 127.7 104.6 157.0

129 91.5 75.3 112.9

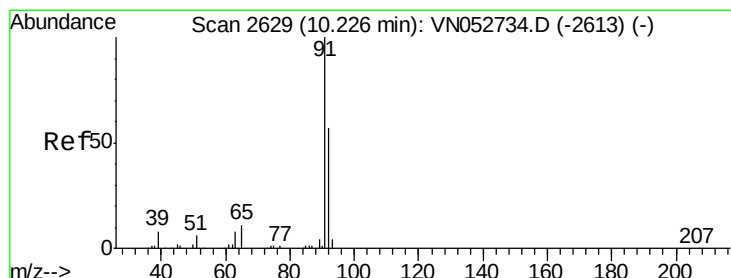
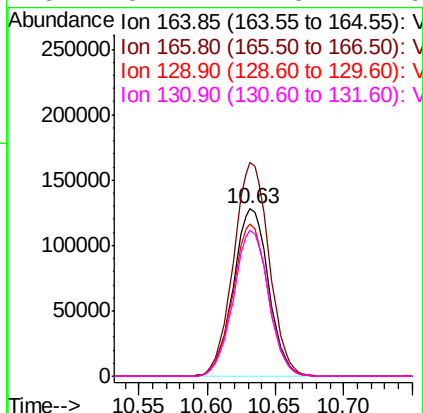
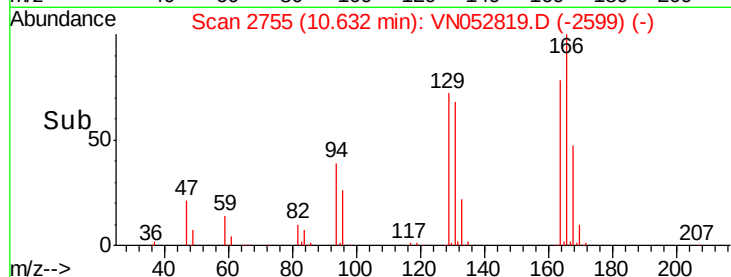
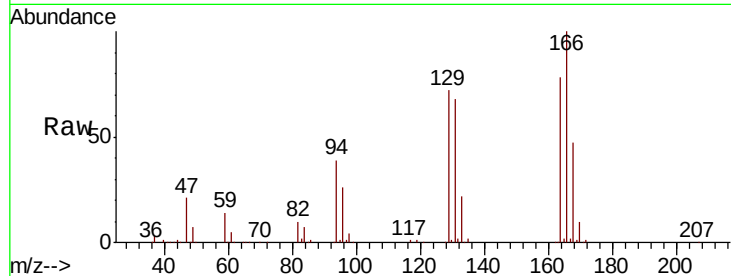
131 87.4 74.3 111.5

Manual Integrations

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#62

Toluene

Concen: 20.582 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052819.D

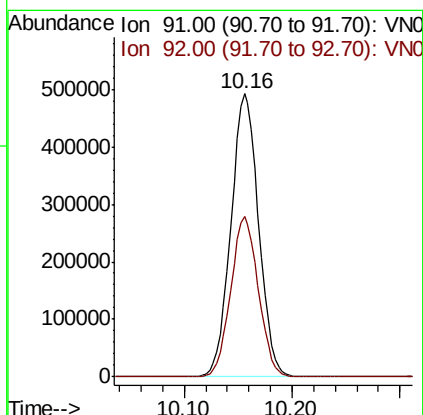
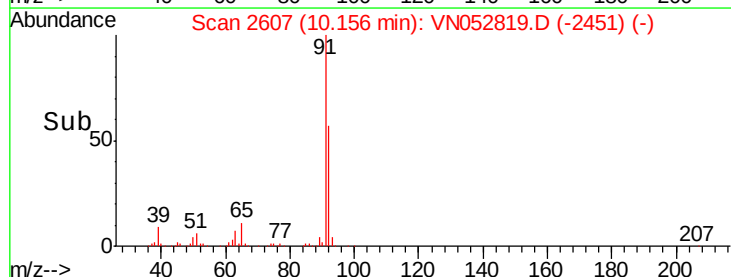
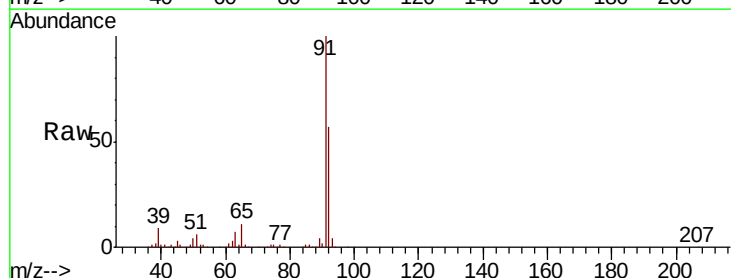
Acq: 12 Dec 2018 11:36

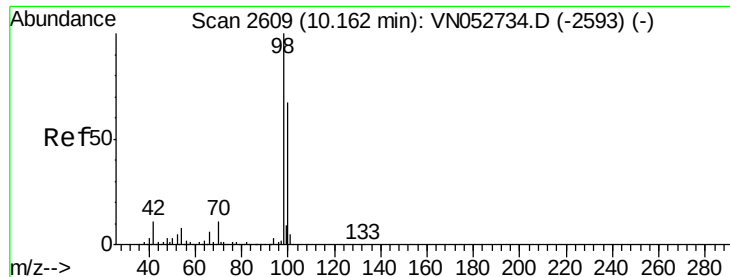
Tgt Ion: 91 Resp: 880314

Ion Ratio Lower Upper

91 100

92 56.5 45.4 68.2





#63

Toluene-d8

Concen: 20.582 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBS01

Tot Ion: 98 Resp: 1053852

Ion Ratio Lower Upper

98 100

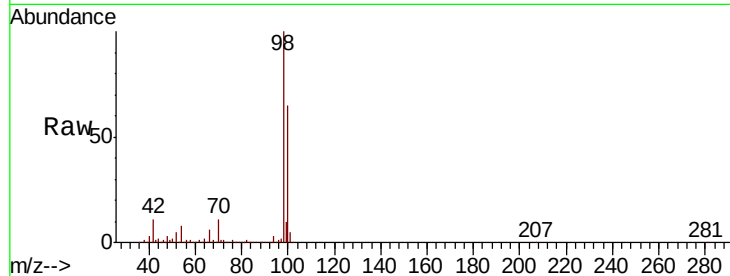
100 64.3 51.1 76.7

Manual Integrations

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Abundance Ion 98.00 (97.70 to 98.70): VN052819.D (-2593) (-)

Ion 100.00 (99.70 to 100.70): VN052819.D (-2593) (-)

10.09

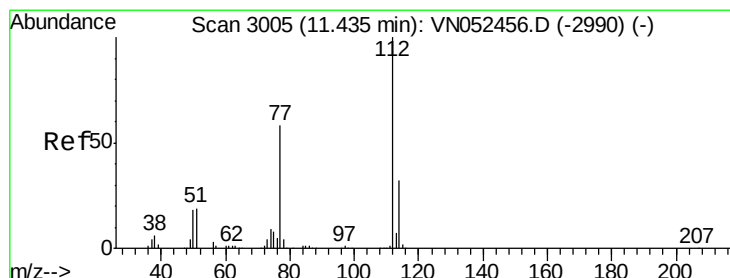
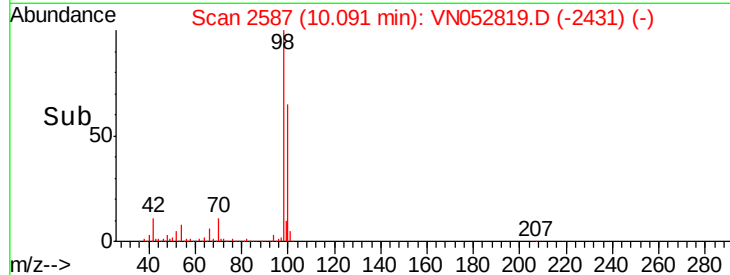
600000

400000

200000

0

Time-->



#64

Chlorobenzene

Concen: 20.768 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN052819.D

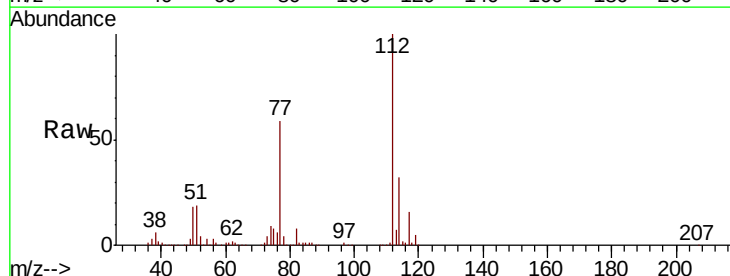
Acq: 12 Dec 2018 11:36

Tgt Ion: 112 Resp: 542181

Ion Ratio Lower Upper

112 100

114 32.1 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): VN052819.D (-2849) (-)

Ion 114.00 (113.70 to 114.70): VN052819.D (-2849) (-)

11.43

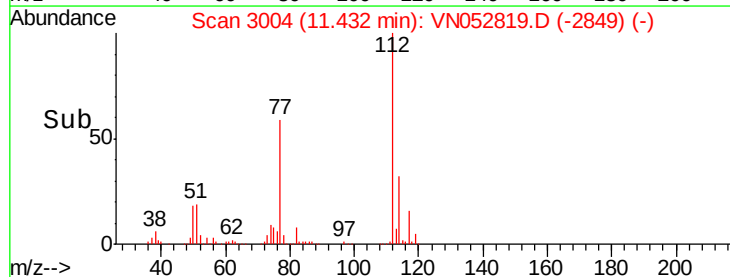
300000

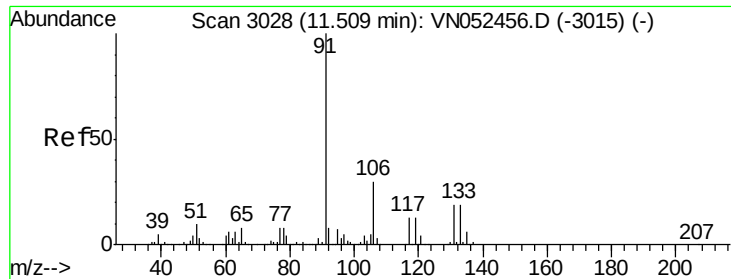
200000

100000

0

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 21.630 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

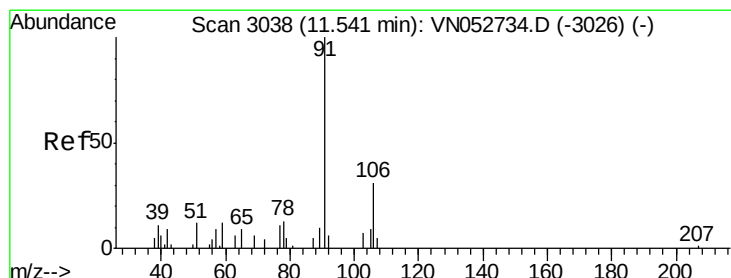
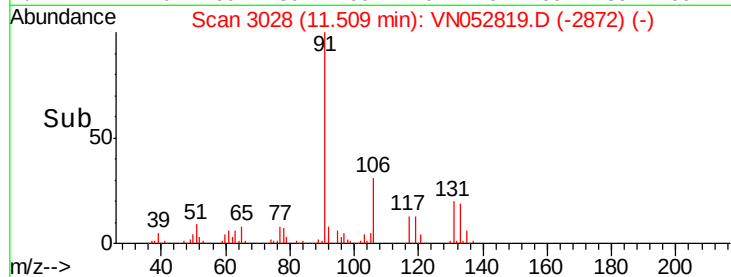
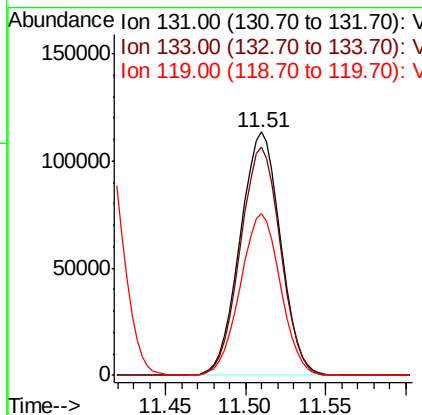
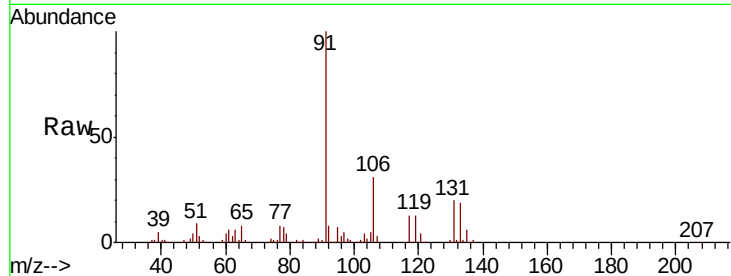
ClientSampleId :

VN1212WBS01

Tot Ion:	131	Resp:	196006
Ion Ratio	Lower	Upper	
131	100		
133	93.8	0.0	193.4
119	66.2	0.0	133.0

Manual Integrations
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#66

Ethyl Benzene

Concen: 20.465 ug/l

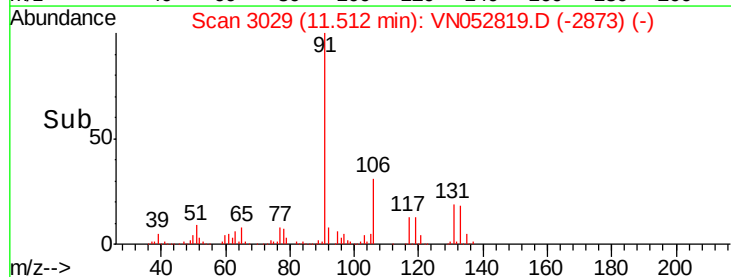
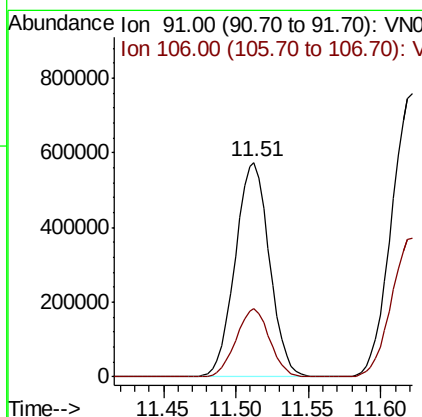
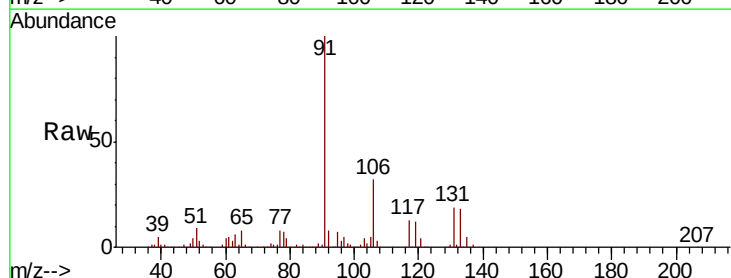
RT: 11.51 min Scan# 3029

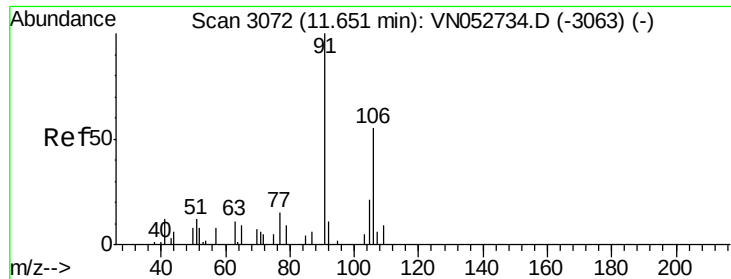
Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Tgt Ion:	91	Resp:	943394
Ion Ratio	Lower	Upper	
91	100		
106	31.6	24.3	36.5





#67

m/p-Xylenes

Concen: 41.619 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBS01

Tot Ion:106 Resp: 714764

Ion Ratio Lower Upper

106 100

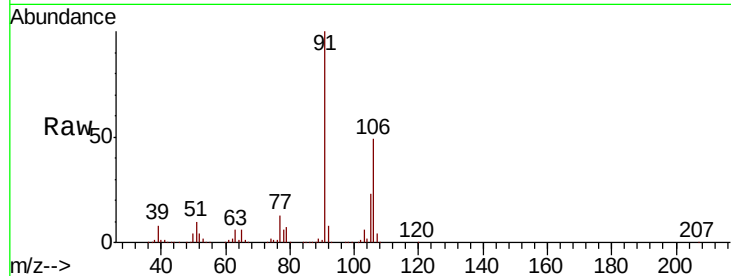
91 202.8 163.9 245.9

Manual Integrations

APPROVED

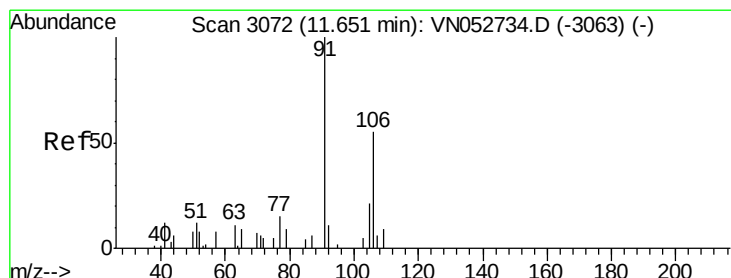
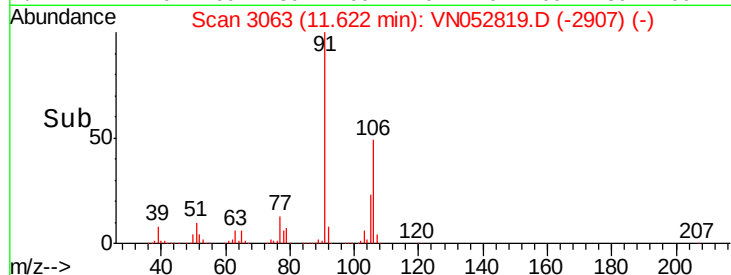
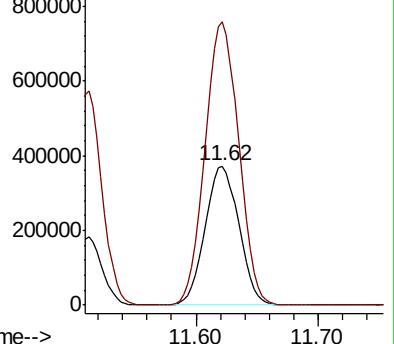
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 20.845 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN052819.D

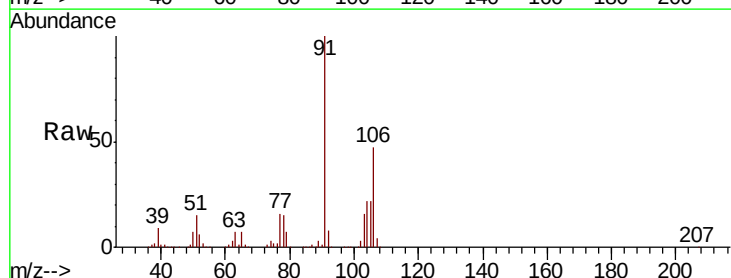
Acq: 12 Dec 2018 11:36

Tgt Ion:106 Resp: 347458

Ion Ratio Lower Upper

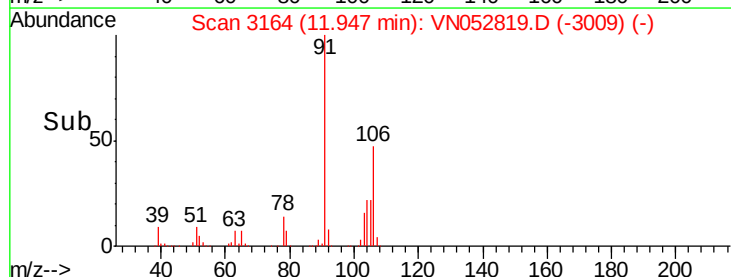
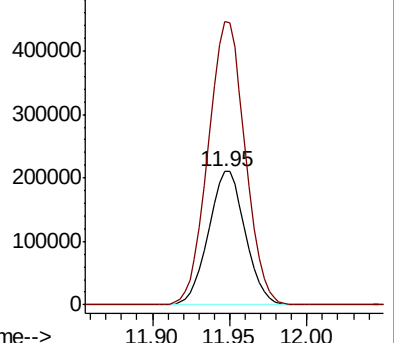
106 100

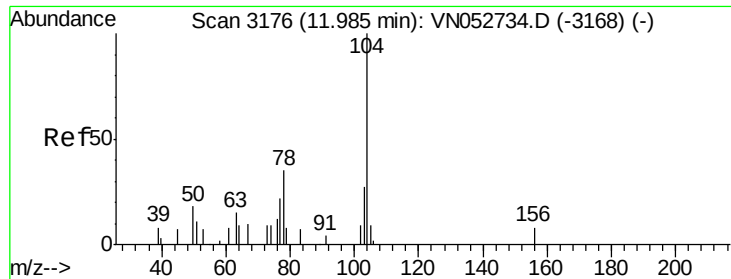
91 213.4 107.8 323.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





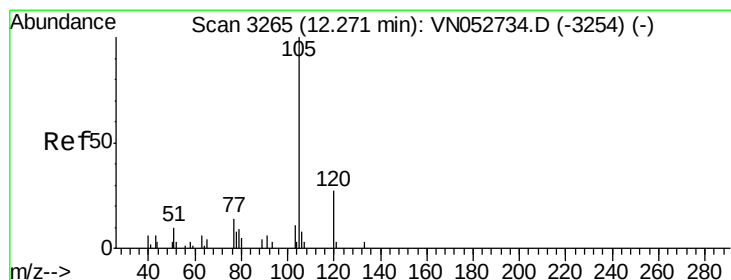
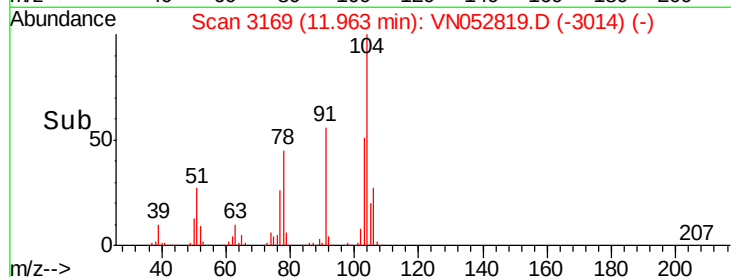
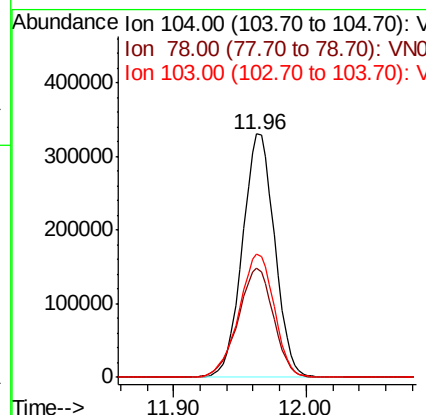
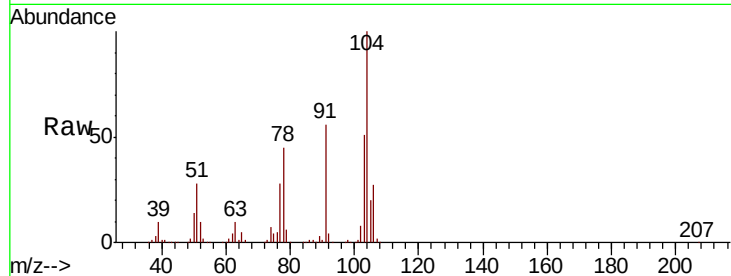
#69
Stvrene
Concen: 20.762 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.2	39.3	58.9
103	55.5	44.6	66.8

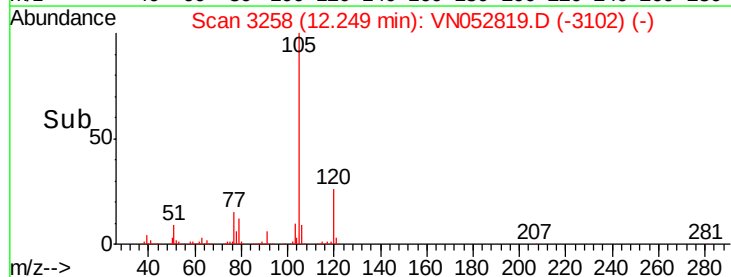
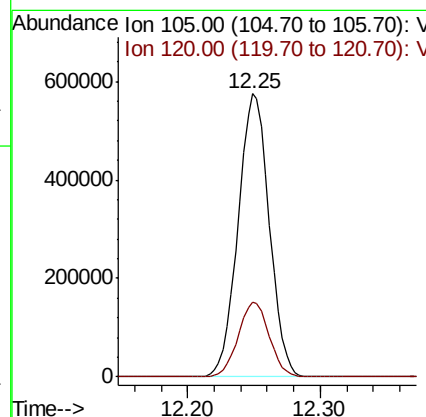
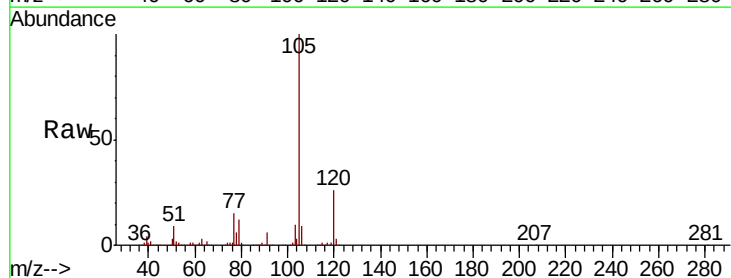
Manual Integrations
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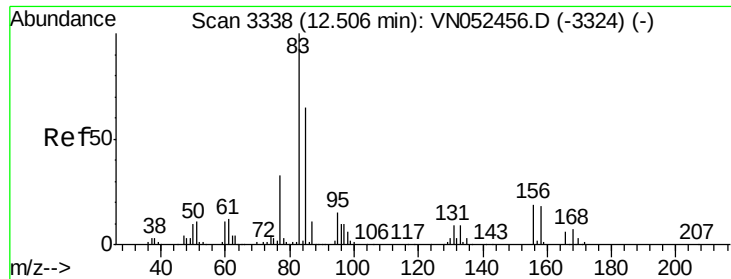
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12/13/2018 1:29:19 PM



#70
Isopropylbenzene
Concen: 21.118 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.2	18.6	34.6





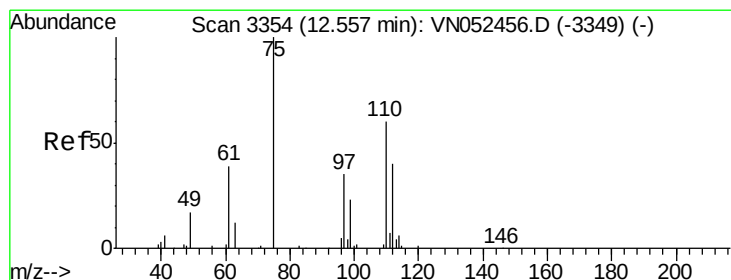
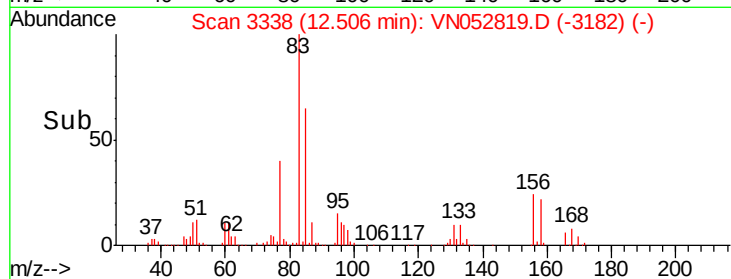
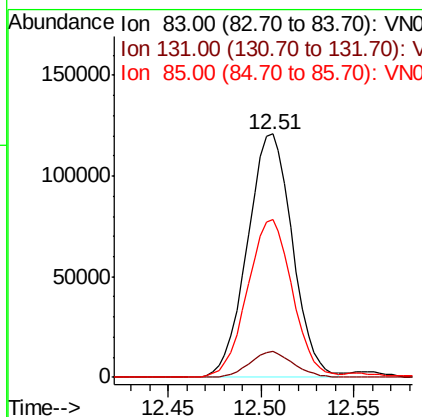
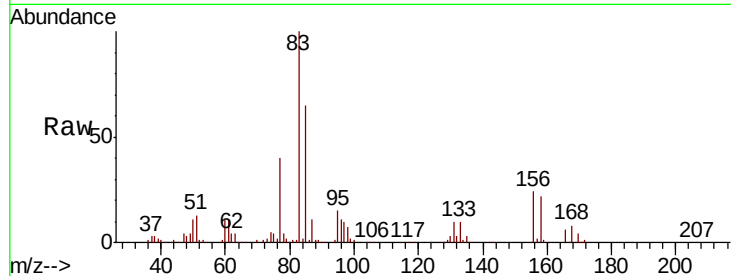
#71
 1,1,2,2-Tetrachloroethane
 Concen: 21.129 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	203845		
131	10.3		4.9	14.6
85	64.7		32.2	96.6

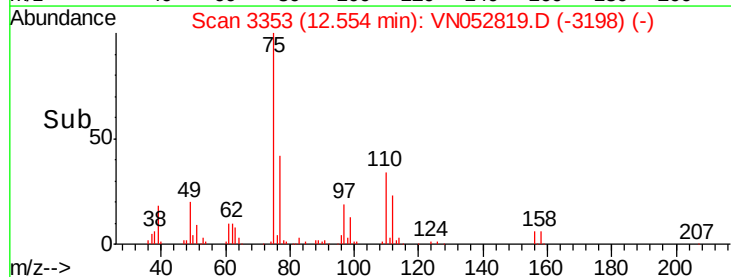
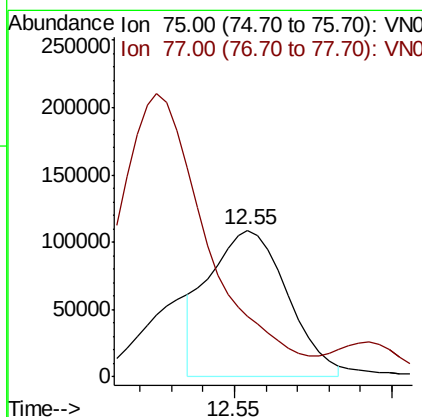
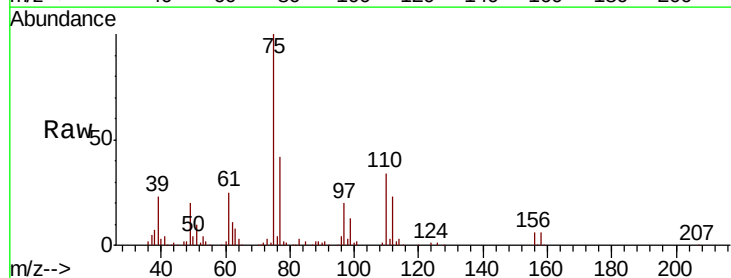
Manual Integrations
 APPROVED

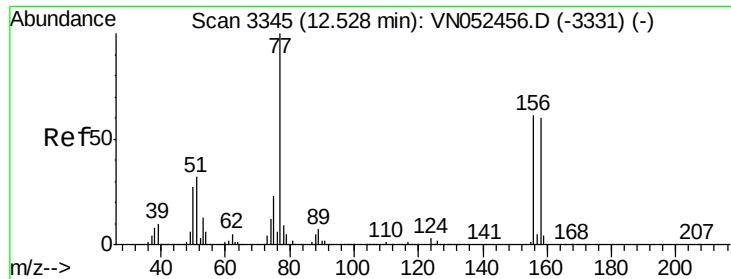
MMDadoda
 12/13/2018 1:29:19 PM



#72
 1,2,3-Trichloropropane
 Concen: 22.835 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	189117		
77	222.9		0.0	514.8





#73

Bromobenzene

Concen: 21.943 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

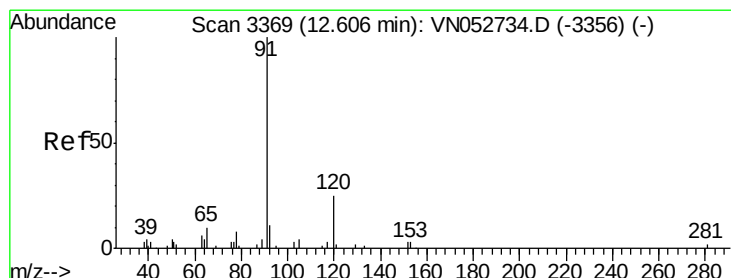
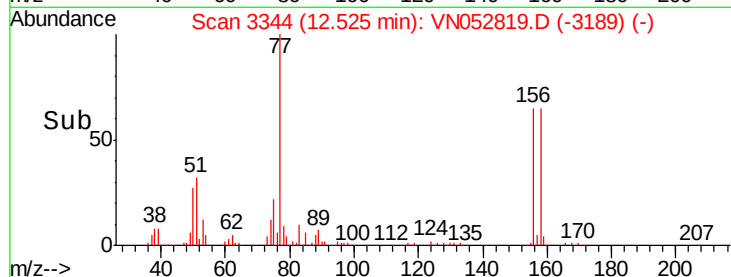
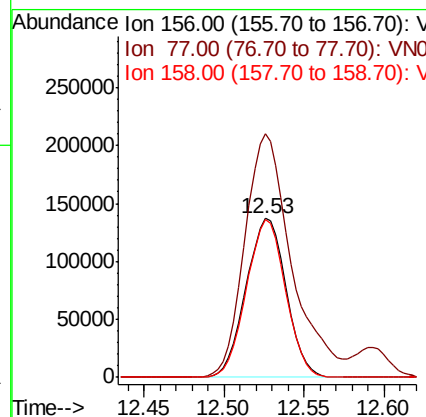
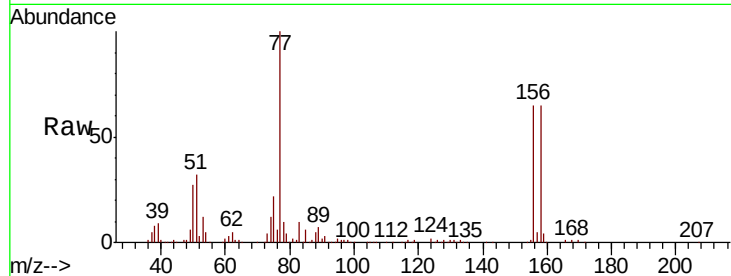
ClientSampleId :

VN1212WBS01

Tot Ion:	156	Resp:	235370
Ion Ratio	Lower	Upper	
156	100		
77	179.1	0.0	382.6
158	96.9	0.0	196.8

Manual Integrations
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#74

n-propylbenzene

Concen: 20.697 ug/l

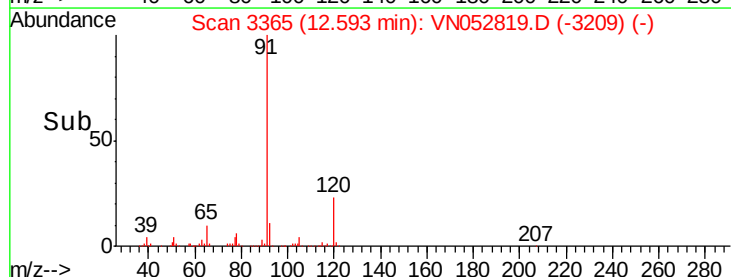
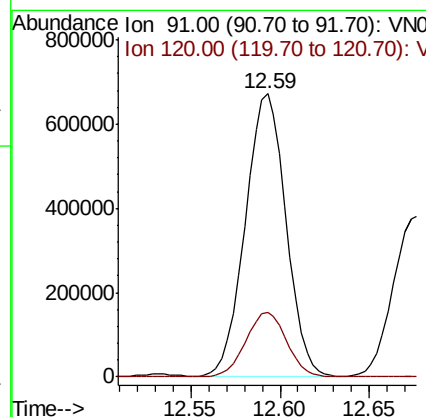
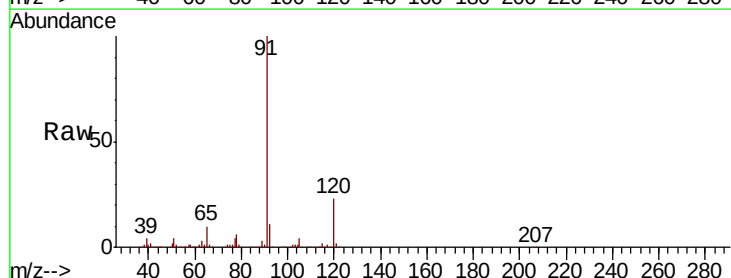
RT: 12.59 min Scan# 3365

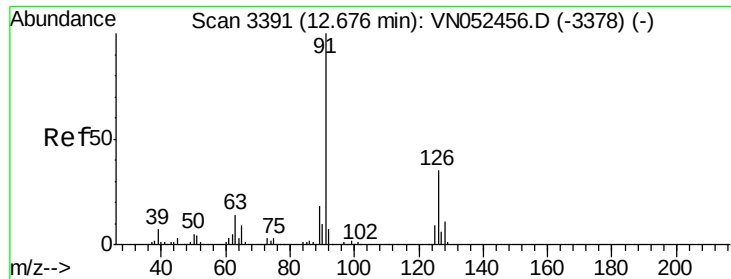
Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Tgt Ion:	91	Resp:	1069527
Ion Ratio	Lower	Upper	
91	100		
120	23.0	0.0	44.6





#75

2-Chlorotoluene

Concen: 21.132 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBS01

Tot Ion: 91 Resp: 633850

Ion Ratio Lower Upper

91 100

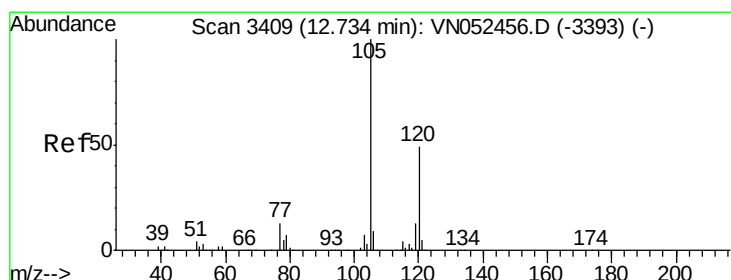
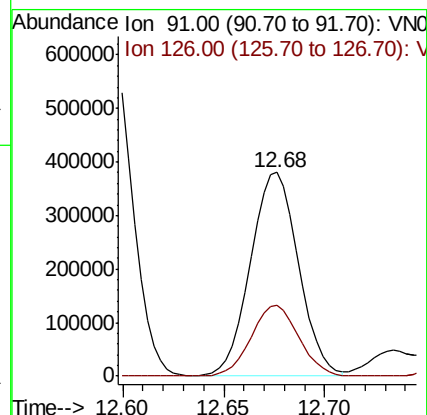
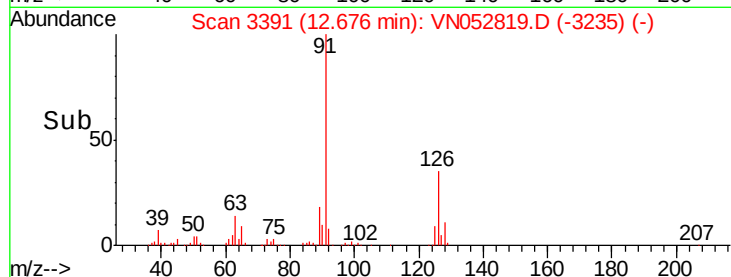
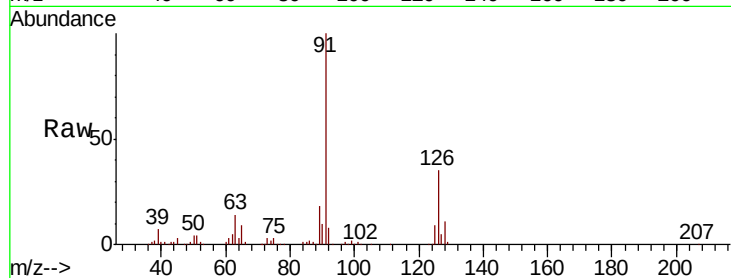
126 34.6 0.0 68.4

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 21.204 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052819.D

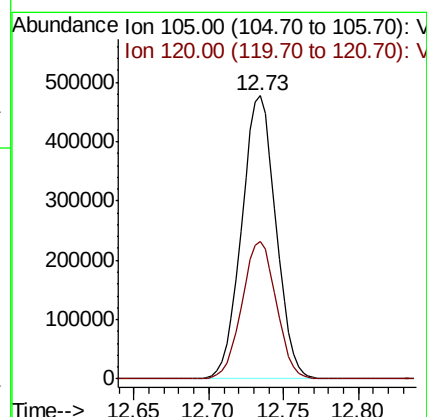
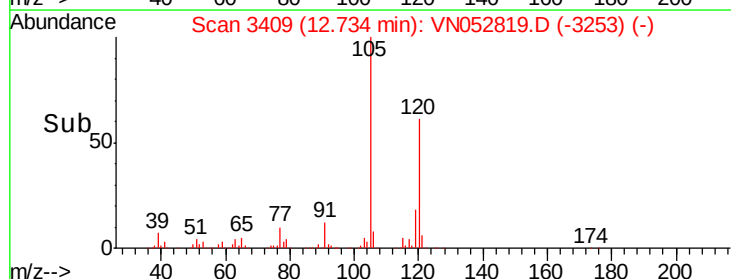
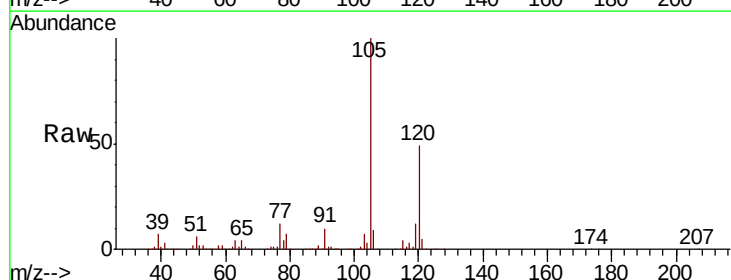
Acq: 12 Dec 2018 11:36

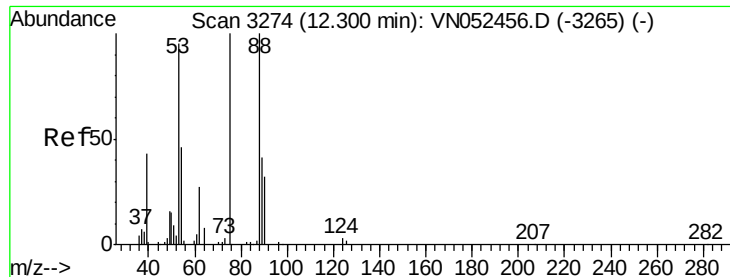
Tgt Ion: 105 Resp: 759562

Ion Ratio Lower Upper

105 100

120 48.9 0.0 97.4





#77

t-1,4-Dichloro-2-butene

Concen: 20.827 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

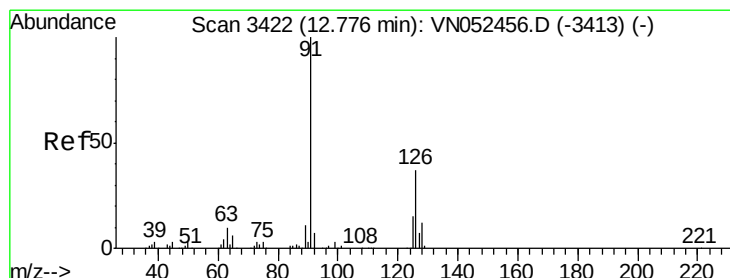
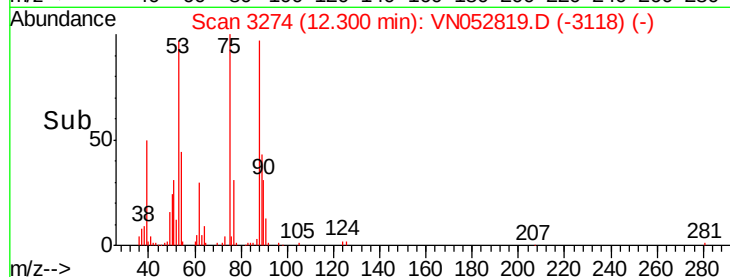
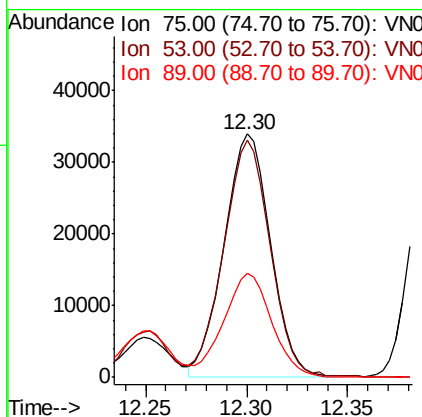
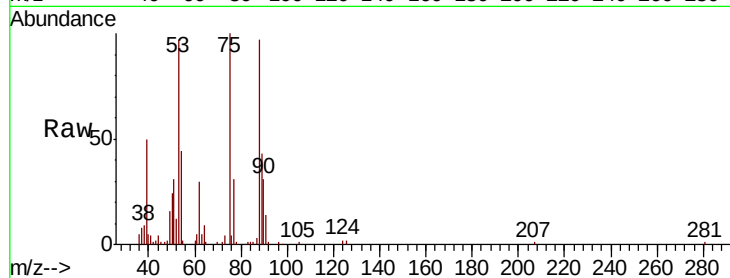
ClientSampleId :

VN1212WBS01

Tot Ion:	75	Resp:	54488
Ion	Ratio	Lower	Upper
75	100		
53	97.1	48.5	145.6
89	42.9	21.7	65.1

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#78

4-Chlorotoluene

Concen: 21.193 ug/l

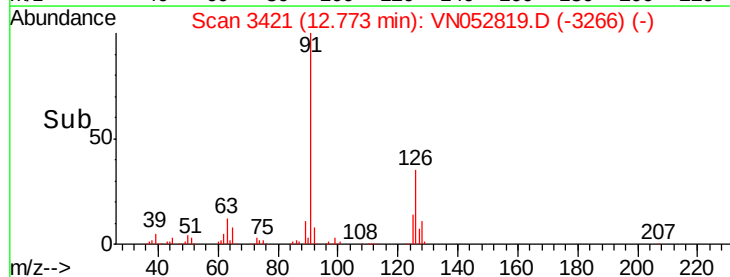
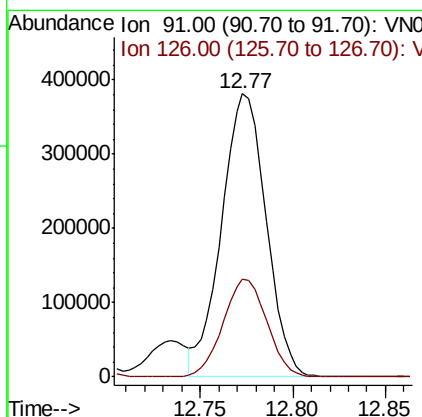
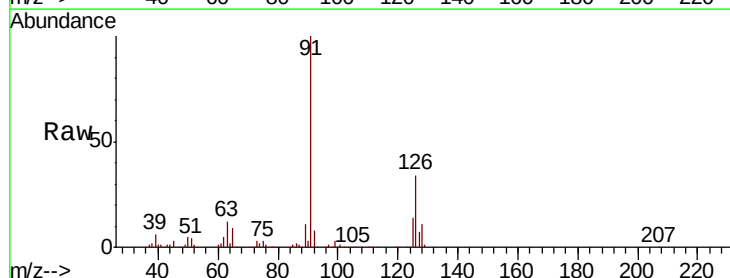
RT: 12.77 min Scan# 3421

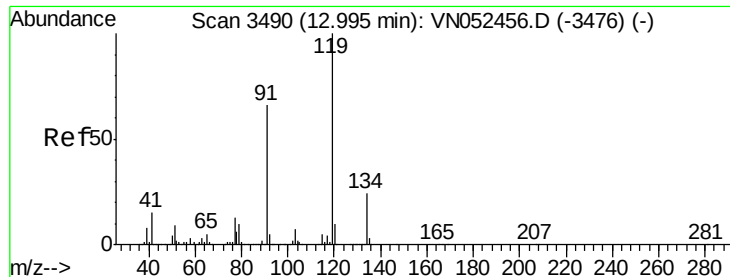
Delta R.T. -0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Tgt Ion:	91	Resp:	634802
Ion	Ratio	Lower	Upper
91	100		
126	34.1	0.0	68.2





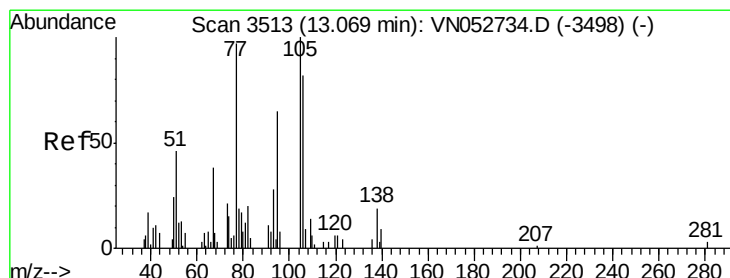
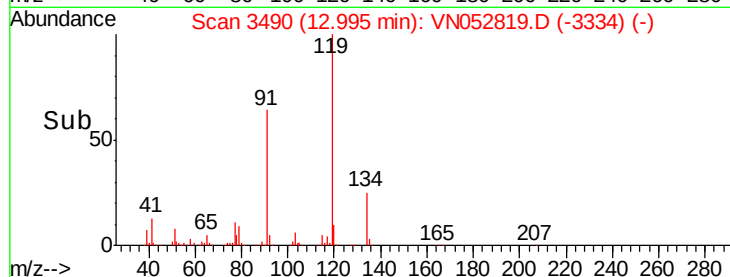
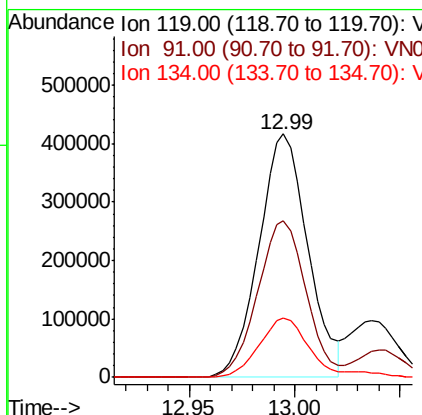
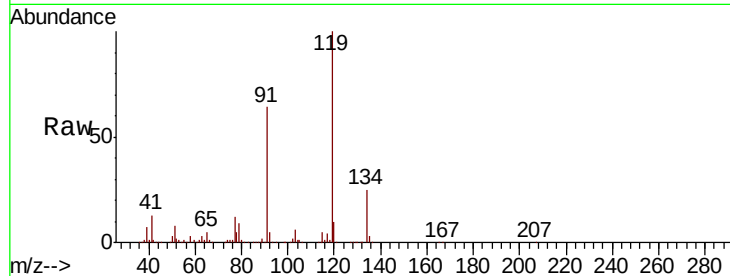
#79
tert-butylbenzene
Concen: 21.583 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	673328		
91	63.9	0.0	129.8	
134	25.8	0.0	52.2	

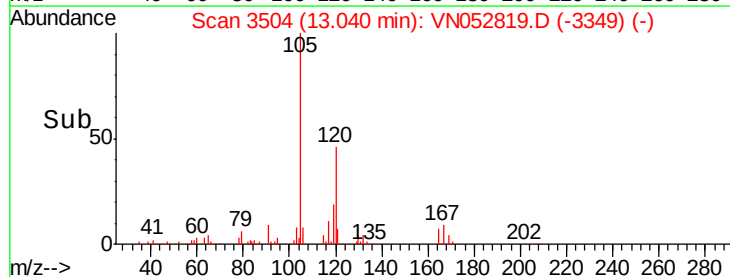
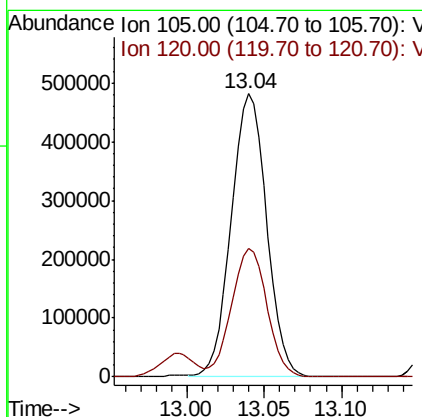
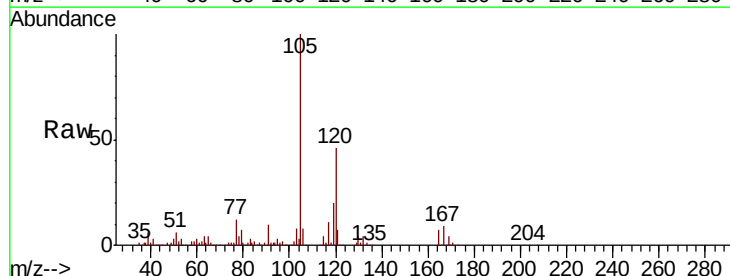
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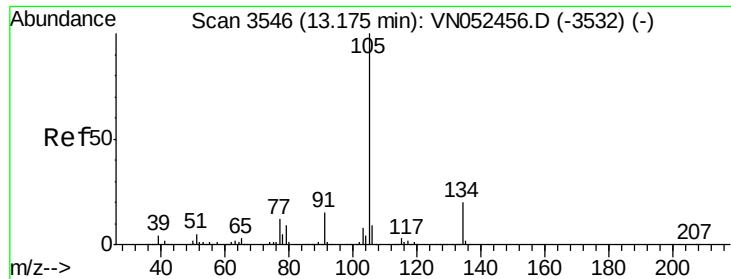
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#80
1,2,4-Trimethylbenzene
Concen: 21.321 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	764232		
120	45.6	0.0	91.0	





#81

sec-Butylbenzene

Concen: 21.148 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBS01

Tot Ion:105 Resp: 918960

Ion Ratio Lower Upper

105 100

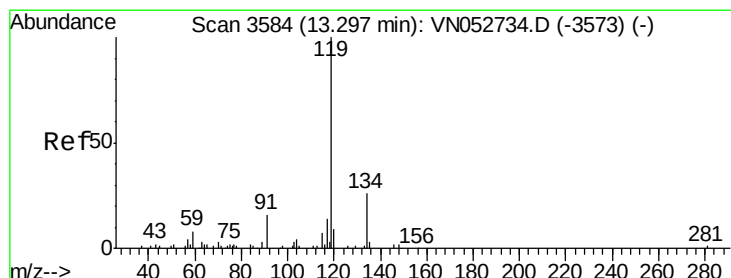
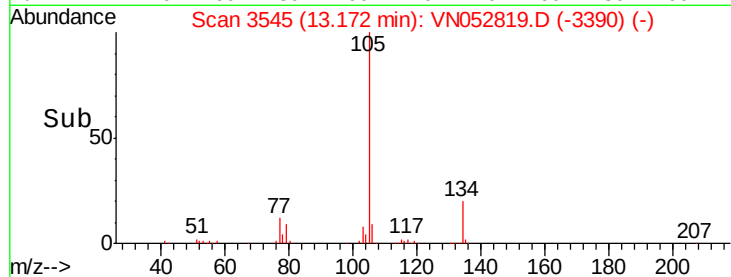
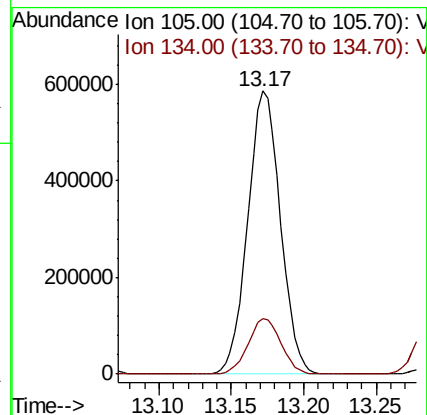
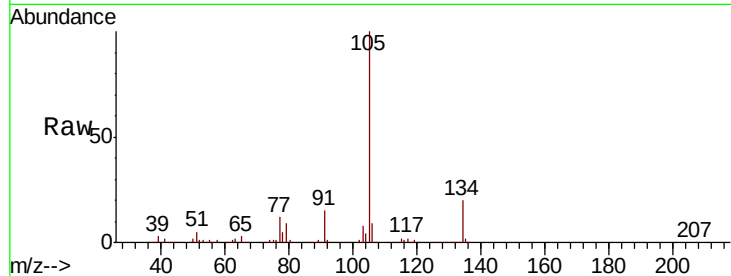
134 19.8 0.0 40.4

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#82

p-Isopropyltoluene

Concen: 21.198 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

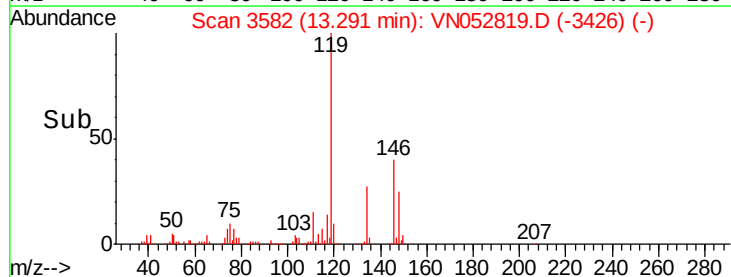
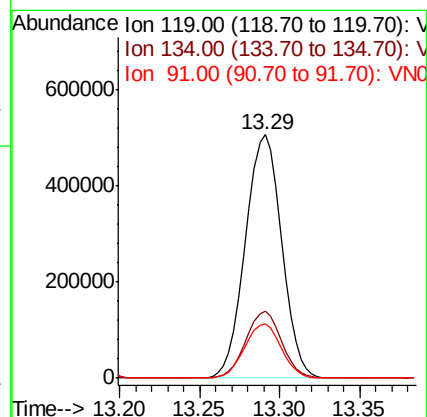
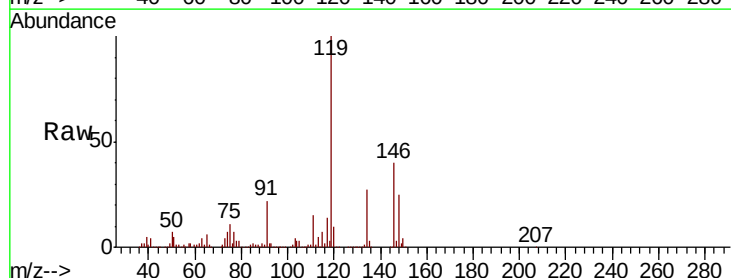
Tgt Ion:119 Resp: 784373

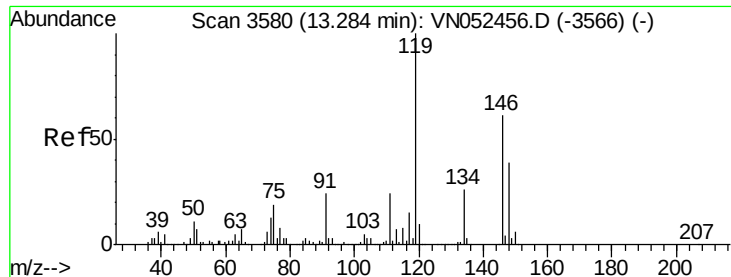
Ion Ratio Lower Upper

119 100

134 26.9 0.0 52.6

91 22.5 0.0 46.2





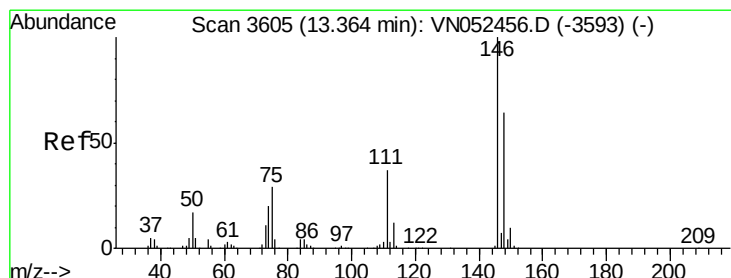
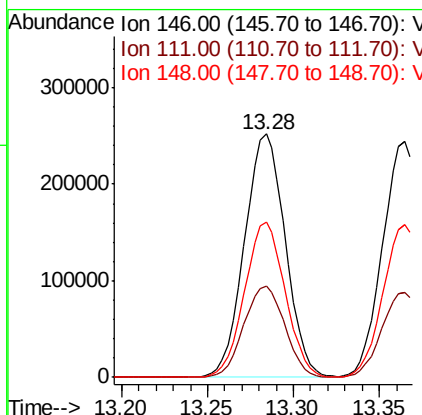
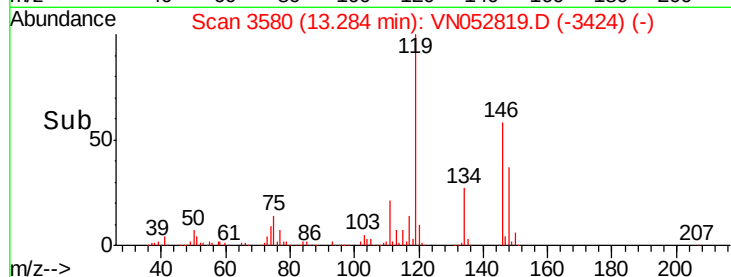
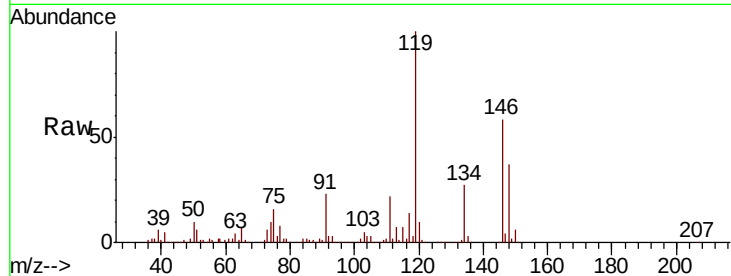
#83
 1,3-Dichlorobenzene
 Concen: 22.020 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.7	59.0
148	63.2	32.3	96.8

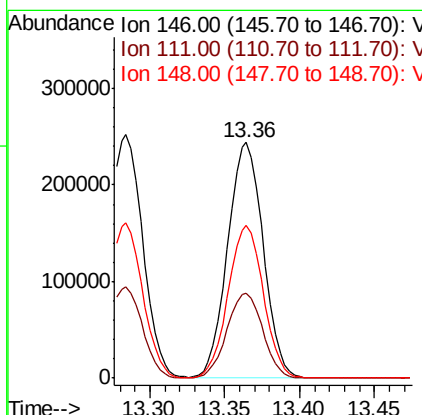
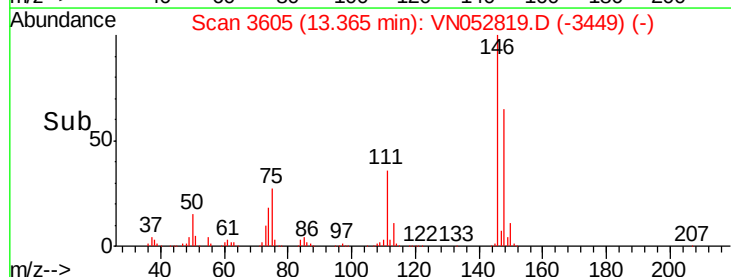
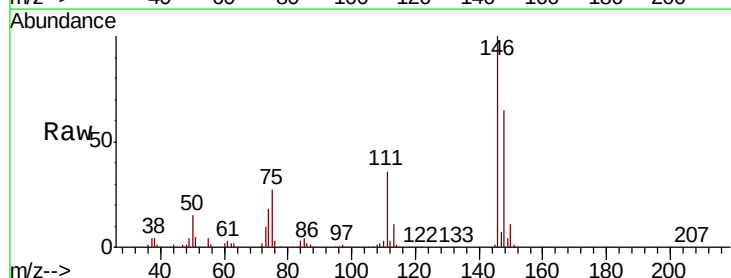
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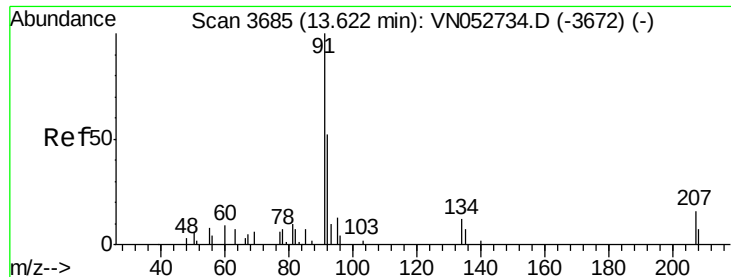
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#84
 1,4-Dichlorobenzene
 Concen: 22.201 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.1	18.8	56.3
148	64.2	32.5	97.4





#85

n-Butylbenzene

Concen: 20.316 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Instrument :

MSVOA_N

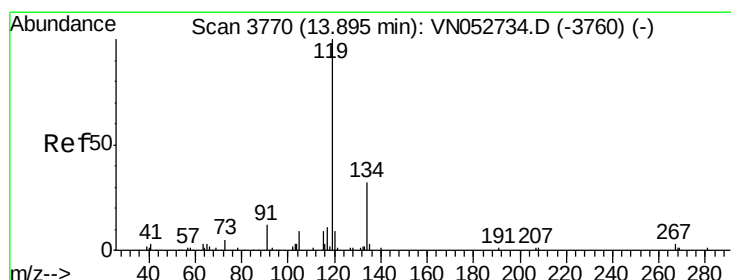
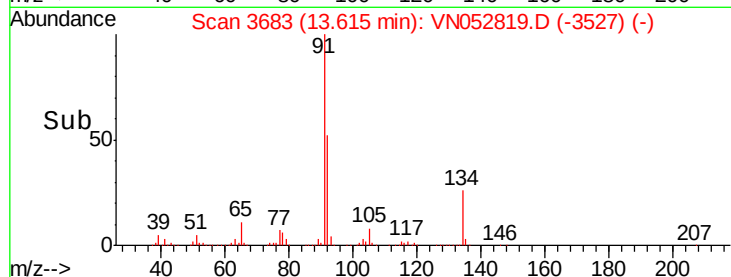
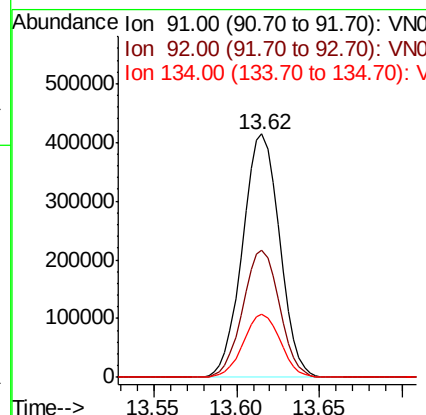
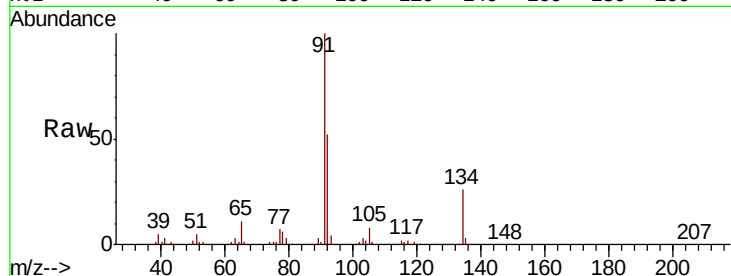
ClientSampleId :

VN1212WBS01

Tot Ion:	91	Resp:	645713
Ion Ratio	Lower	Upper	
91	100		
92	51.9	0.0	104.2
134	25.9	0.0	50.6

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#86

Hexachloroethane

Concen: 20.726 ug/l

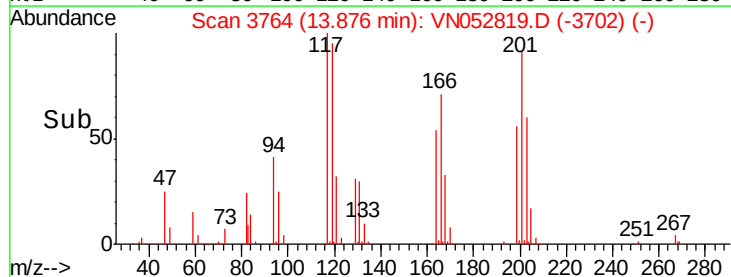
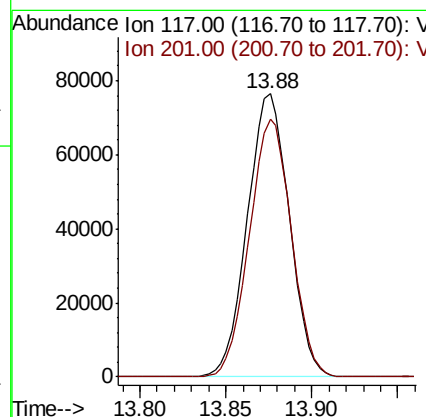
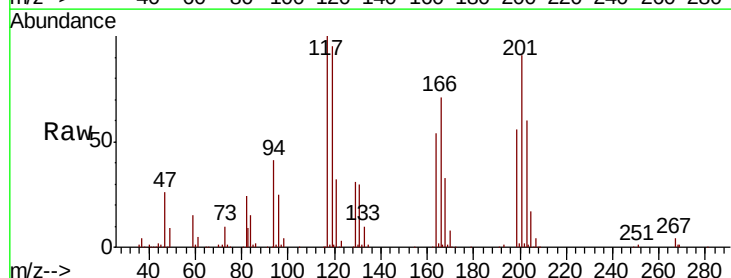
RT: 13.88 min Scan# 3764

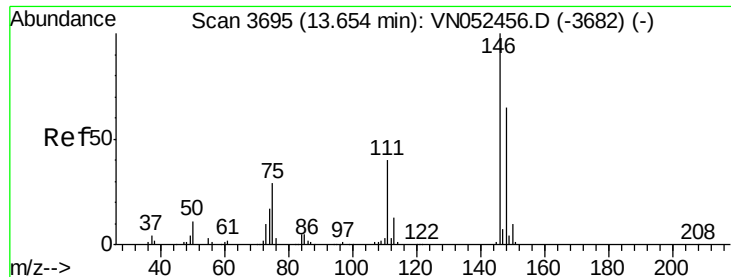
Delta R.T. 0.00 min

Lab File: VN052819.D

Acq: 12 Dec 2018 11:36

Tgt Ion:	117	Resp:	129937
Ion Ratio	Lower	Upper	
117	100		
201	90.8	43.8	131.3





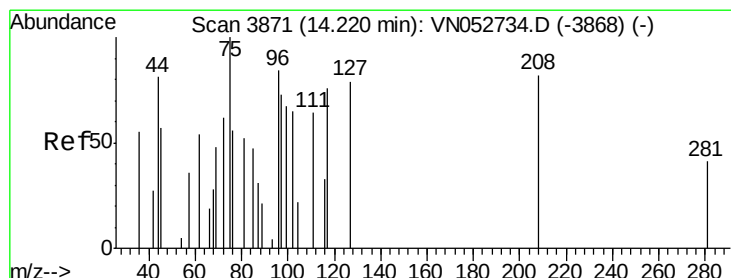
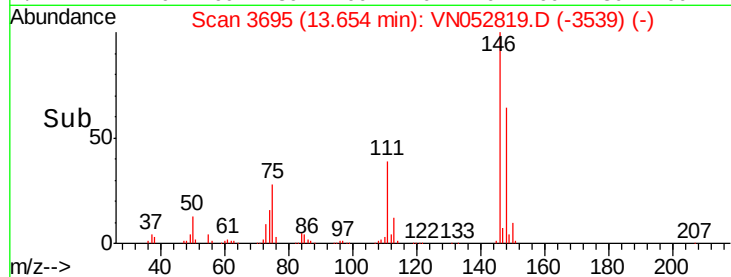
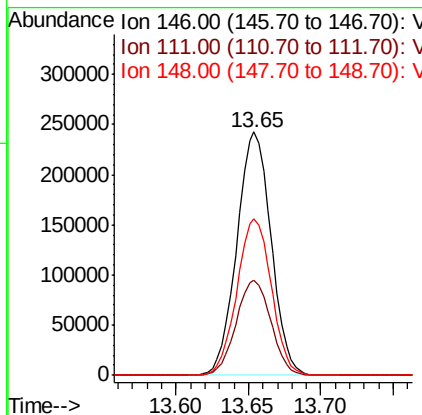
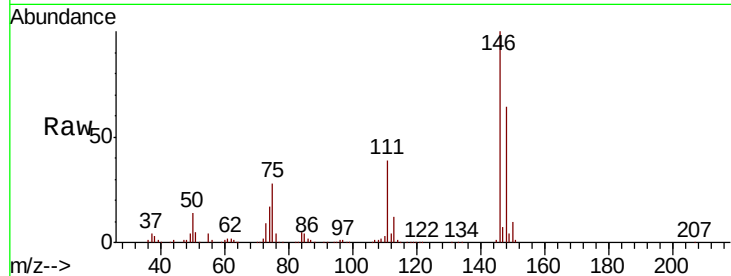
#87
 1,2-Dichlorobenzene
 Concen: 22.161 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.3	60.8
148	64.9	32.1	96.5

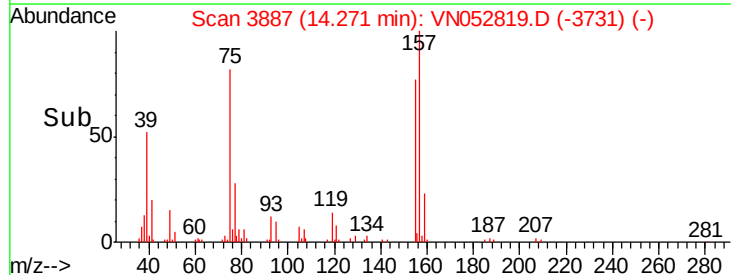
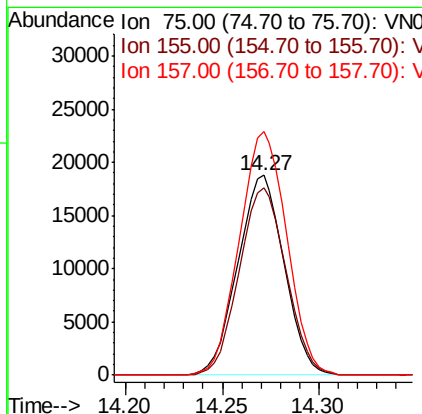
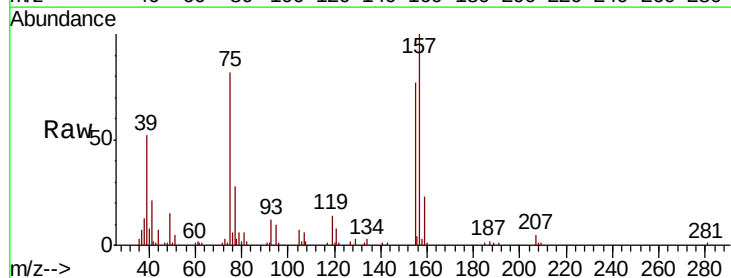
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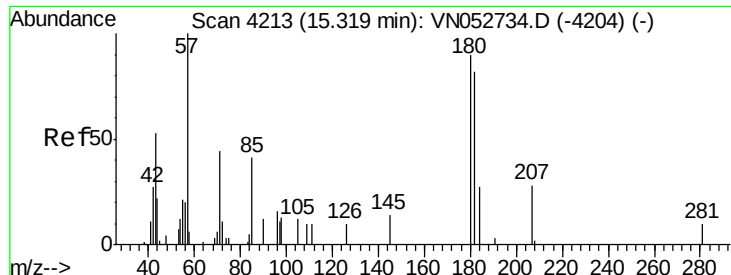
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 23.163 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.5	72.2	108.2
157	124.6	94.2	141.2





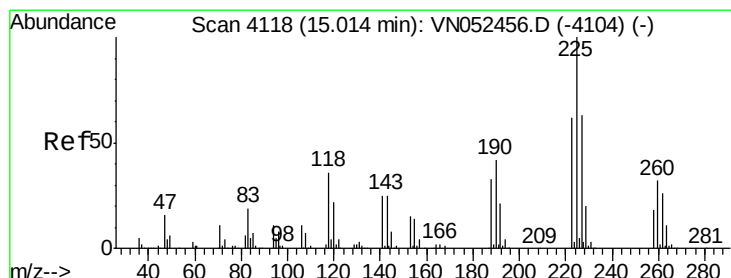
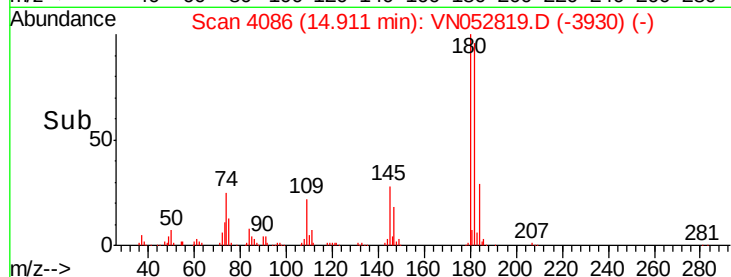
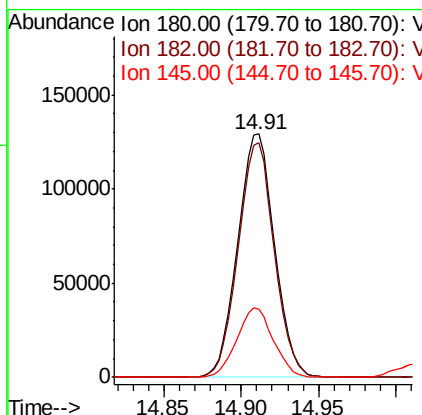
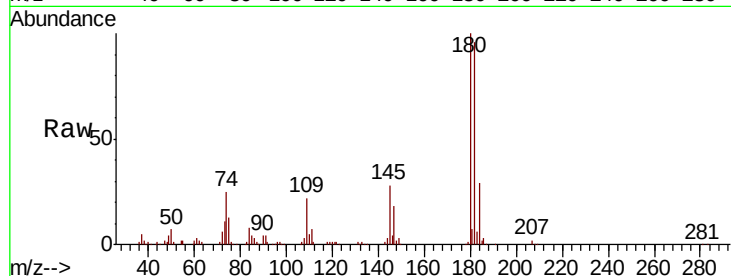
#89
 1,2,4-Trichlorobenzene
 Concen: 24.148 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.6	114.8
145	28.3	23.6	35.4

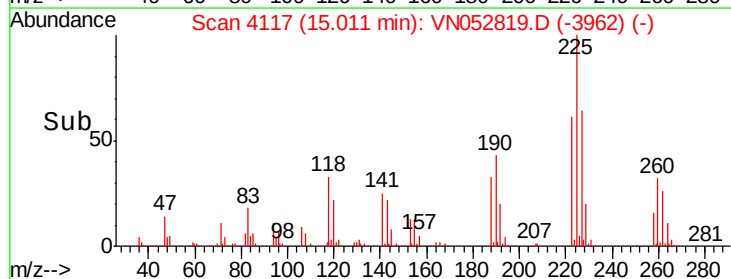
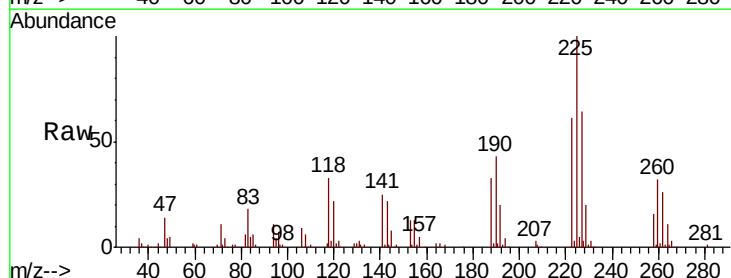
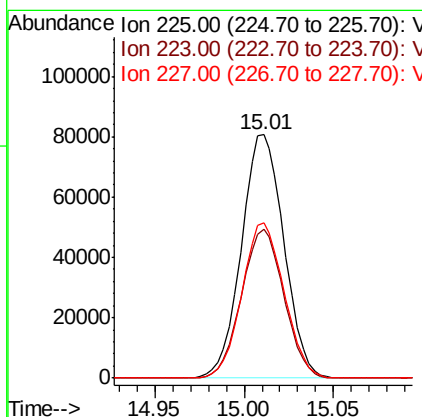
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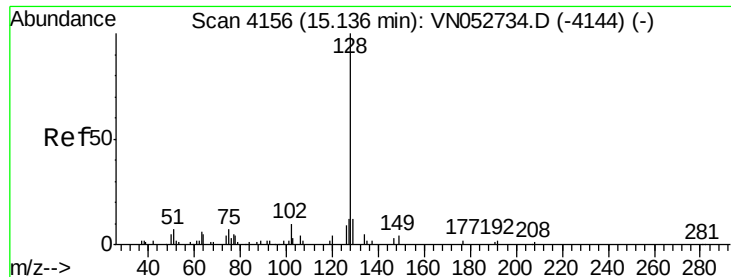
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#90
 Hexachlorobutadiene
 Concen: 23.172 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052819.D
 Acq: 12 Dec 2018 11:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.1	0.0	125.6
227	63.2	0.0	127.8





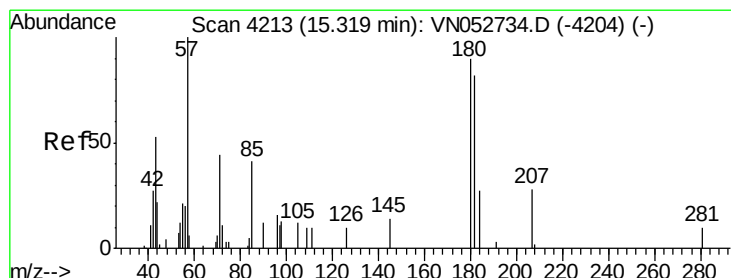
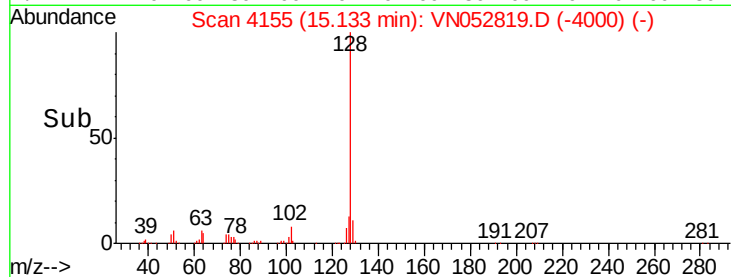
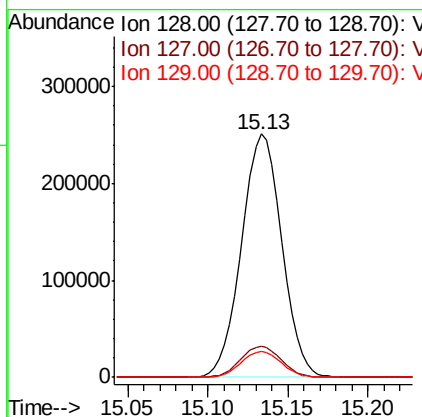
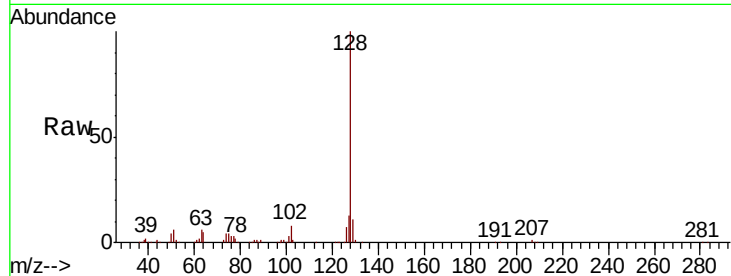
#91
Naphthalene
Concen: 24.137 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
128	100		431120		
127	12.9		9.9	14.9	
129	10.6		8.5	12.7	

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#92
1,2,3-Trichlorobenzene
Concen: 24.253 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052819.D
Acq: 12 Dec 2018 11:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
180	100		197683		
182	95.5		0.0	196.2	
145	30.4		0.0	62.2	

