

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112618\
 Data File : VN052459.D
 Acq On : 26 Nov 2018 14:40
 Operator : MD\SY
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

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 11/27/2018 3:52:11 PM

Quant Time: Nov 27 00:48:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:15:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	181896	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1037024	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	939222	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	361749	29.19	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.30%
60) 4-Bromofluorobenzene	12.40	95	438686	30.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.77%
63) Toluene-d8	10.09	98	1278105	29.35	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.83%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	1507404	145.51	ug/l	100
3) Chloromethane	2.06	50	2009519	146.26	ug/l	100
4) Vinyl Chloride	2.19	62	2043685	147.38	ug/l	97
5) Bromomethane	2.56	94	1193528	150.95	ug/l	97
6) Chloroethane	2.71	64	1210957	146.85	ug/l	100
7) Trichlorofluoromethane	3.02	101	2516157	147.03	ug/l	99
8) Diethyl Ether	3.41	74	960650	152.02	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	1565778	144.33	ug/l	98
10) 1,1-Dichloroethene	3.74	96	1534836	150.47	ug/l	98
11) Methyl Iodide	3.96	142	2327141	164.32	ug/l	99
12) Methyl Acetate	4.32	43	1346589	155.37	ug/l	99
13) Acrolein	3.61	56	863374	848.06	ug/l	99
14) Acrylonitrile	4.99	53	2863448	775.41	ug/l	98
15) Acetone	3.82	58	697852	729.70	ug/l	99
16) Carbon Disulfide	4.06	76	4864473	150.63	ug/l	100
17) Allyl chloride	4.33	41	2671796	150.19	ug/l	99
18) Methylene Chloride	4.55	84	1720658	145.69	ug/l	99
19) trans-1,2-Dichloroethene	5.05	96	1650034	150.31	ug/l	99
20) Diisopropyl ether	5.95	45	5612897	150.14	ug/l	96
21) 1,1-Dichloroethane	5.85	63	3187627	149.61	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	1895188	150.64	ug/l	99
23) tert-Butyl Alcohol	4.78	59	463773	844.24	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	4162596	155.56	ug/l	98
25) Chloroform	7.37	83	3031898	147.50	ug/l	100
26) Cyclohexane	7.66	56	3031877	150.87	ug/l	# 100
29) 1,1-Dichloropropene	7.80	75	2448176	154.59	ug/l	100
30) 2-Butanone	6.83	43	3321470	783.81	ug/l	100
31) 2,2-Dichloropropane	6.83	77	2301677	157.87	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	2546745	154.55	ug/l	98
33) Carbon Tetrachloride	7.78	117	2240702	155.41	ug/l	100
34) Benzene	8.04	78	7225200	151.75	ug/l	# 91
35) Methacrylonitrile	7.17	41	848883	116.07	ug/l	98
36) 1,2-Dichloroethane	8.13	62	2183278	151.32	ug/l	100
37) Trichloroethene	8.84	130	1841228	152.50	ug/l	98
38) Methylcyclohexane	9.08	83	3011742	153.63	ug/l	98
39) 1,2-Dichloropropane	9.12	63	1947919	152.62	ug/l	97
40) Dibromomethane	9.21	93	1061929	153.97	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	2356068	154.62	ug/l	98
42) Vinyl Acetate	5.90	43	18650893	813.46	ug/l	99
43) Ethyl Acetate	6.93	43	1436871	76.22	ug/l #	66
44) Isopropyl Acetate	8.16	43	2616945	165.60	ug/l #	79
45) 1,4-Dioxane	9.20	88	282061	3262.59	ug/l	96
46) Methyl methacrylate	9.20	41	1374046	167.46	ug/l	98
47) n-amyl Acetate	12.07	43	2293872	175.07	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	2483373	168.08	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	2905932	161.43	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	1499352	153.36	ug/l	99
51) Ethyl methacrylate	10.43	69	2047675	166.77	ug/l	98
52) 1,3-Dichloropropane	10.71	76	2666112	153.21	ug/l	100
53) Dibromochloromethane	10.90	129	1713117	159.16	ug/l	97
54) 1,2-Dibromoethane	11.01	107	1528126	159.96	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	5790056	805.58	ug/l	100
56) Bromoform	12.13	173	1147534	163.11	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	7099225	779.66	ug/l	100
59) 2-Hexanone	10.75	43	4843488	778.68	ug/l	99
61) Tetrachloroethene	10.63	164	1670340	144.40	ug/l	98
62) Toluene	10.16	91	7693108	148.58	ug/l	100
64) Chlorobenzene	11.44	112	4768887	150.90	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	1685271	153.63	ug/l	99
66) Ethyl Benzene	11.51	91	8516520	152.62	ug/l	99
67) m/p-Xylenes	11.62	106	6307484	303.39	ug/l	100
68) o-Xylene	11.95	106	3064759	151.88	ug/l	99
69) Styrene	11.97	104	5075922	155.85	ug/l	100
70) Isopropylbenzene	12.25	105	8137454	151.57	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	1792108	153.45	ug/l	100
72) 1,2,3-Trichloropropane	12.56	75	1561602m	160.12	ug/l	
73) Bromobenzene	12.53	156	2003983	154.33	ug/l	99
74) n-propylbenzene	12.59	91	9594826	153.38	ug/l	99
75) 2-Chlorotoluene	12.68	91	5521591	152.07	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	6584743	151.84	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	553507	174.77	ug/l	93
78) 4-Chlorotoluene	12.78	91	5634769	155.40	ug/l	100
79) tert-butylbenzene	12.99	119	5728165	151.68	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	6690202	154.18	ug/l	100
81) sec-Butylbenzene	13.17	105	8028388	152.62	ug/l	100
82) p-Isopropyltoluene	13.29	119	6970909	155.63	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	3573612	156.48	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	3507644	158.97	ug/l	99
85) n-Butylbenzene	13.62	91	6242131	162.24	ug/l	99
86) Hexachloroethane	13.88	117	1203732	158.61	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	3328826	153.17	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	272535	166.59	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	1954955	182.59	ug/l	99
90) Hexachlorobutadiene	15.01	225	1051667	149.73	ug/l	100
91) Naphthalene	15.13	128	4048734	187.25	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	1769463	179.33	ug/l	97

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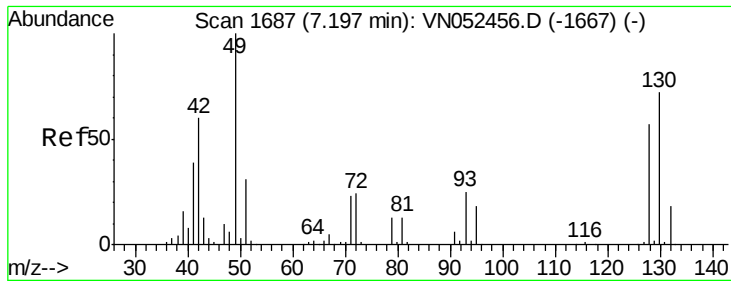
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

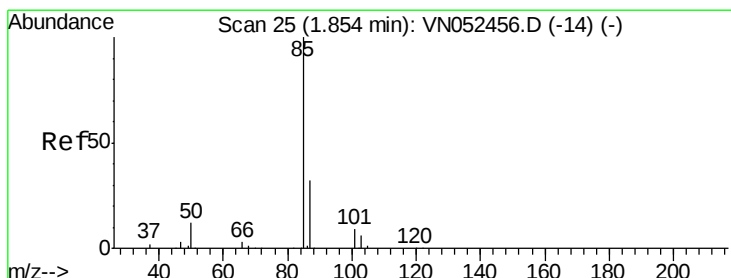
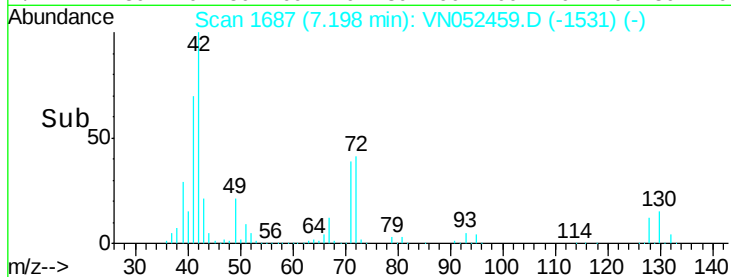
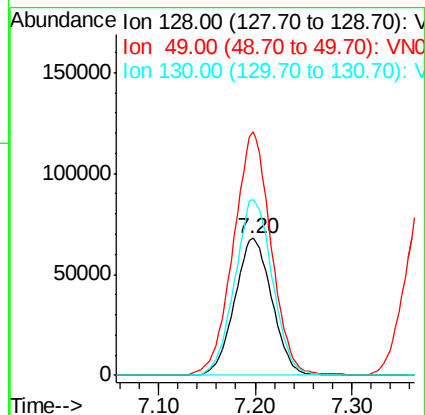
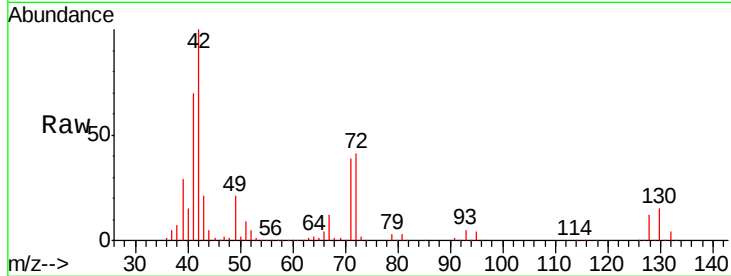
ClientSampleId :

VSTDIC150

Tgt Ion:	128	Resp:	181896
Ion Ratio	Lower	Upper	
128	100		
49	178.8	0.0	431.8
130	129.4	0.0	317.0

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#2

Dichlorodifluoromethane

Concen: 145.51 ug/l

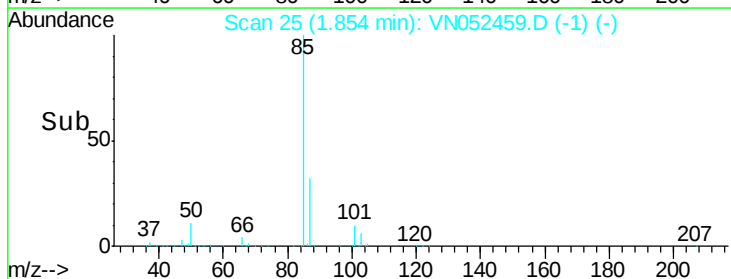
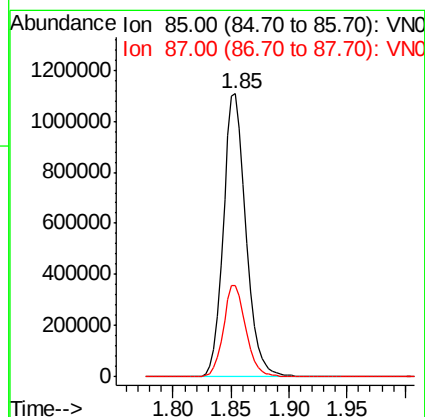
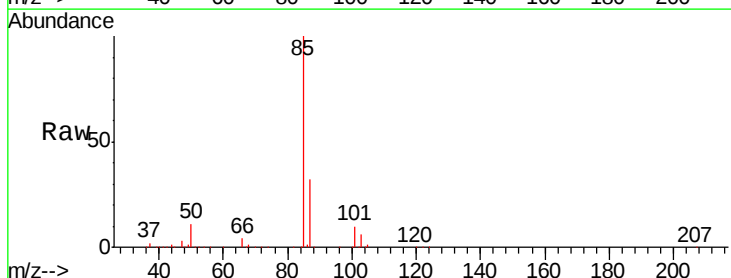
RT: 1.85 min Scan# 25

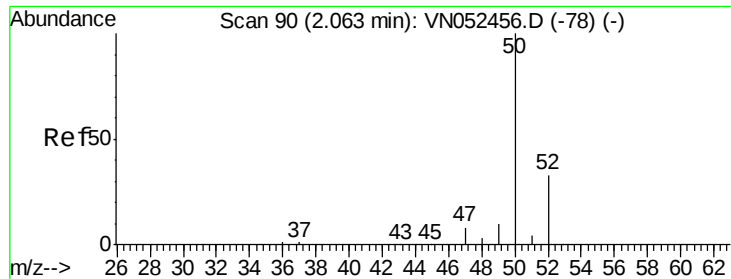
Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Tgt Ion:	85	Resp:	1507404
Ion Ratio	Lower	Upper	
85	100		
87	32.4	16.1	48.3





#3

Chloromethane

Concen: 146.26 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 50 Resp: 2009519

Ion Ratio Lower Upper

50 100

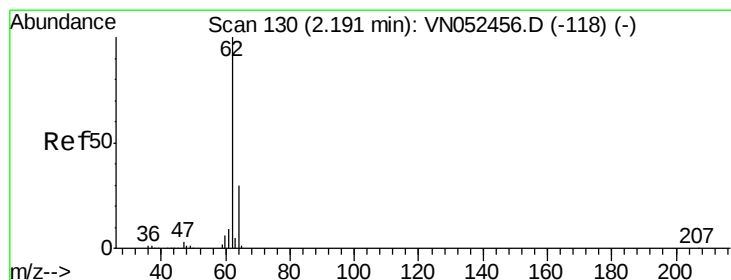
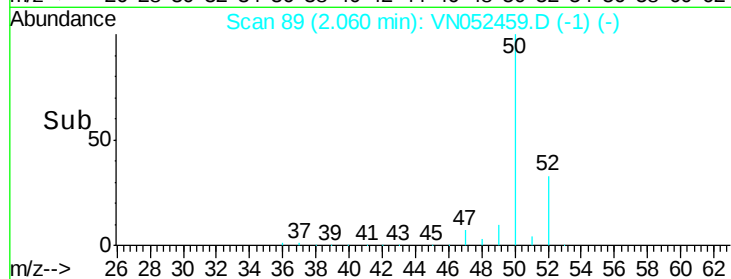
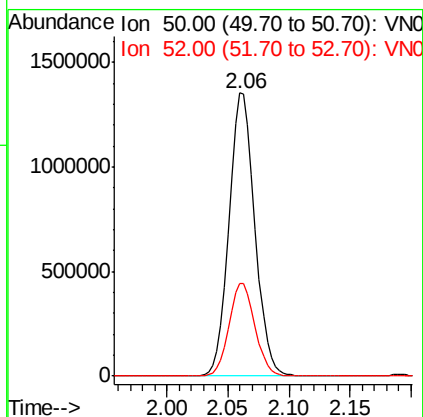
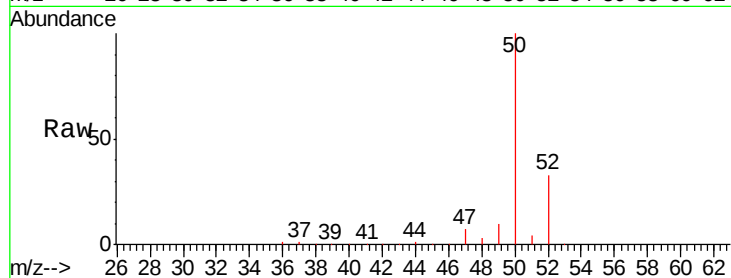
52 32.9 26.5 39.7

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#4

Vinyl Chloride

Concen: 147.38 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052459.D

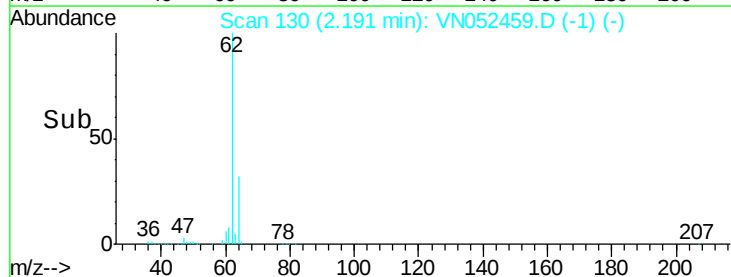
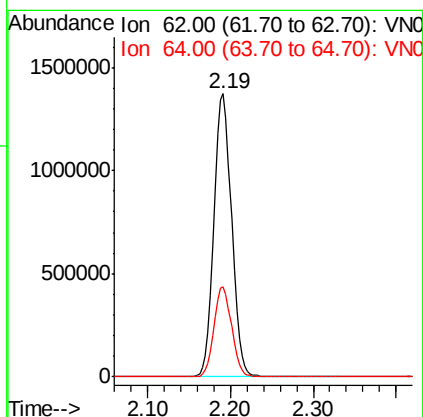
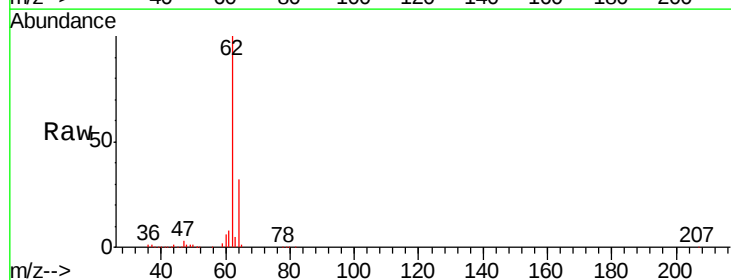
Acq: 26 Nov 2018 14:40

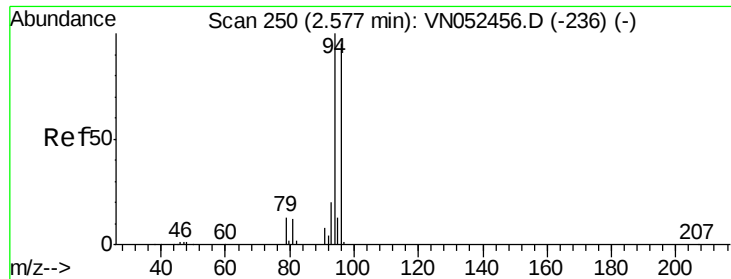
Tgt Ion: 62 Resp: 2043685

Ion Ratio Lower Upper

62 100

64 32.0 24.2 36.4





#5

Bromomethane

Concen: 150.95 ug/l

RT: 2.56 min Scan# 246

Delta R.T. -0.01 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 94 Resp: 1193528

Ion Ratio Lower Upper

94 100

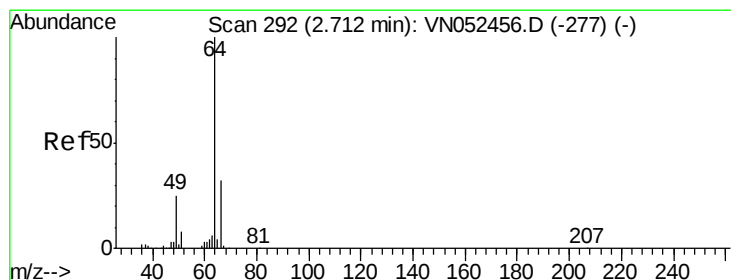
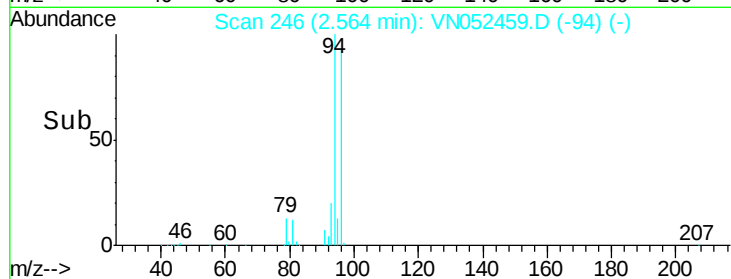
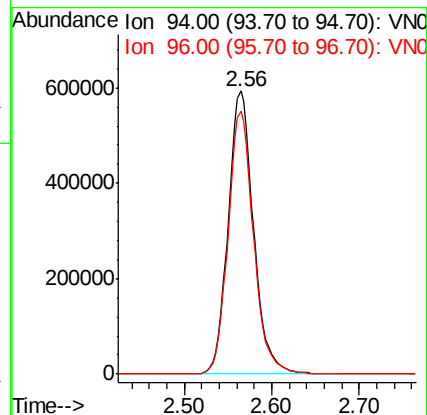
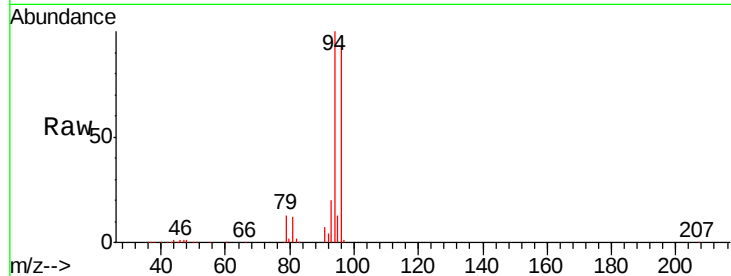
96 92.7 76.2 114.2

Manual Integrations

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#6

Chloroethane

Concen: 146.85 ug/l

RT: 2.71 min Scan# 290

Delta R.T. -0.01 min

Lab File: VN052459.D

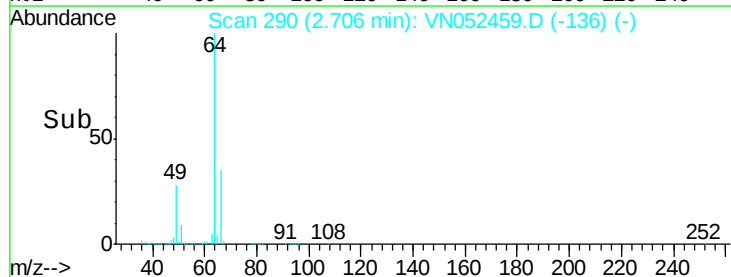
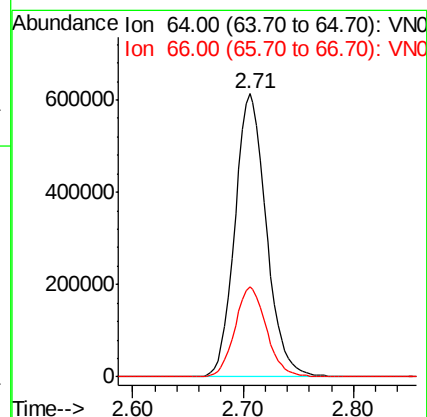
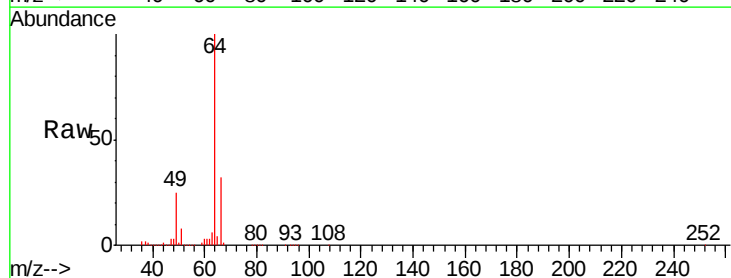
Acq: 26 Nov 2018 14:40

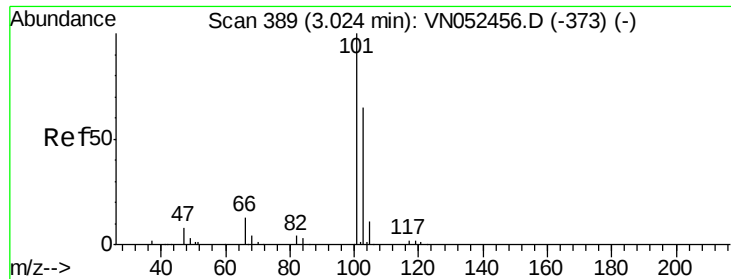
Tgt Ion: 64 Resp: 1210957

Ion Ratio Lower Upper

64 100

66 31.8 25.6 38.4





#7

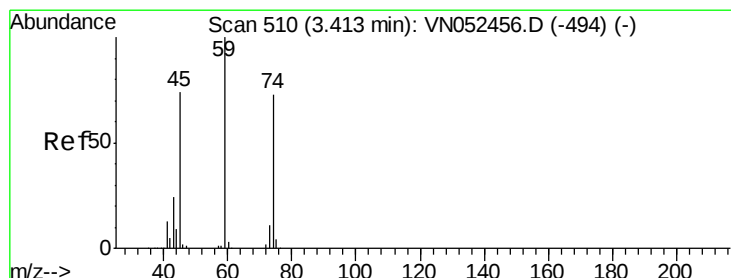
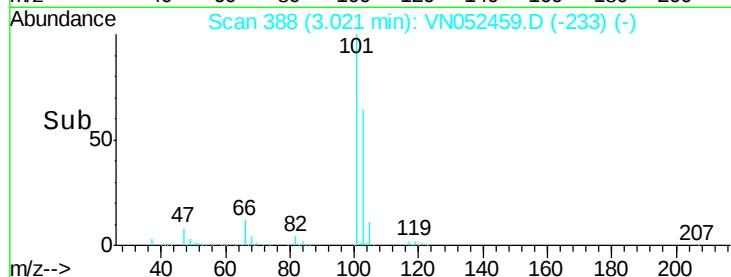
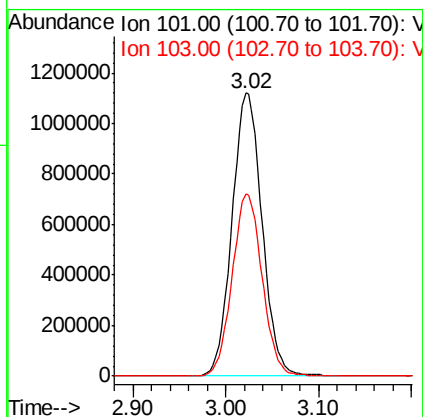
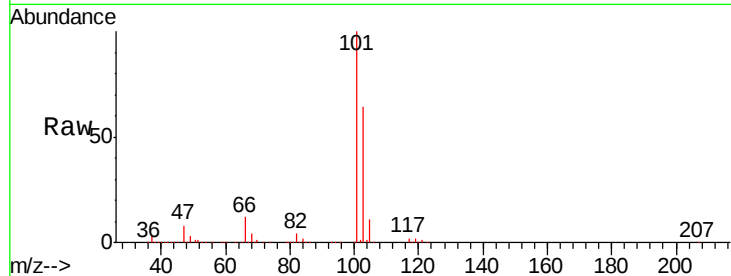
Trichlorofluoromethane
 Concen: 147.03 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. -0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Instrument :
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 ClientSampleId :
 VSTDIC150

Tgt Ion:101 Resp: 2516157
 Ion Ratio Lower Upper
 101 100
 103 64.4 52.1 78.1

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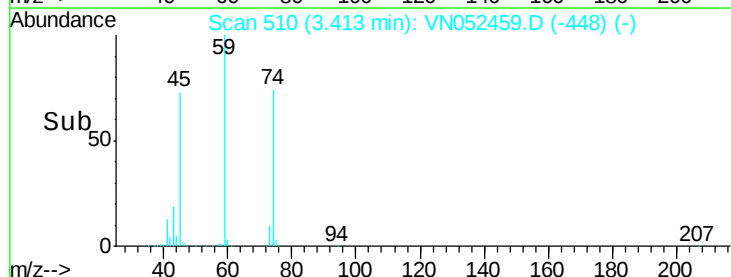
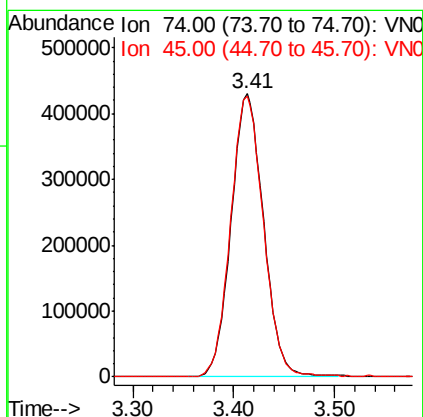
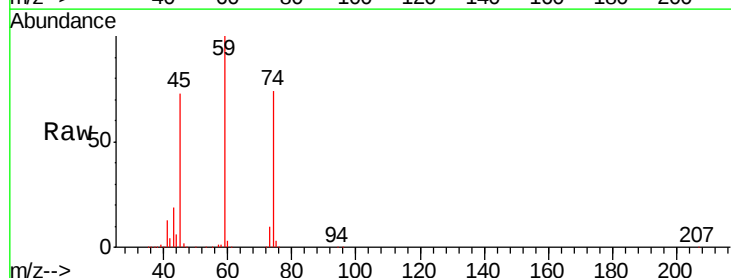
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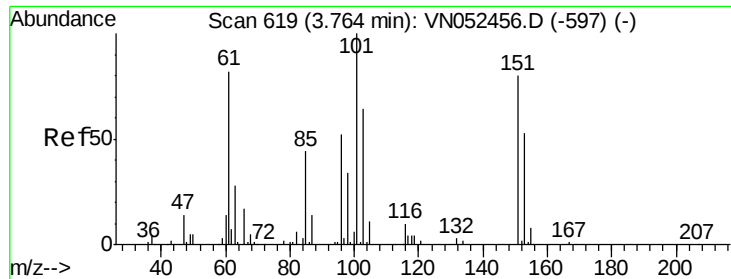


#8

Diethyl Ether
 Concen: 152.02 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Tgt Ion: 74 Resp: 960650
 Ion Ratio Lower Upper
 74 100
 45 100.1 20.6 185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 144.33 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 101 Resp: 1565778

Ion Ratio Lower Upper

101 100

85 42.7 0.0 82.6

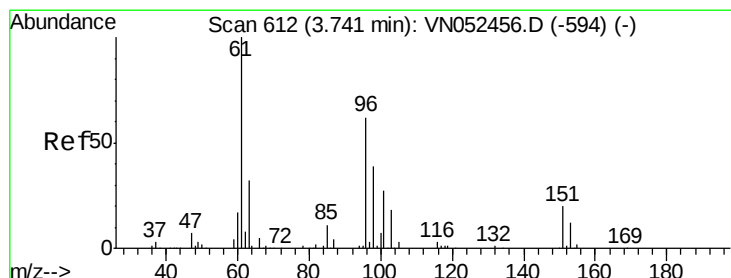
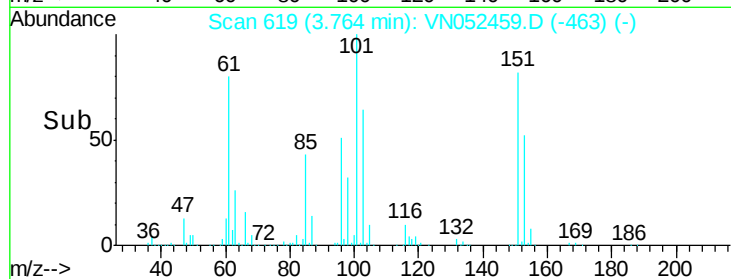
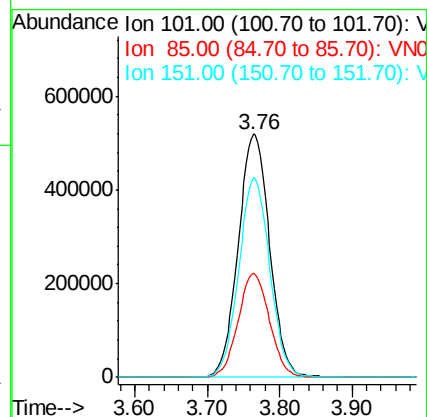
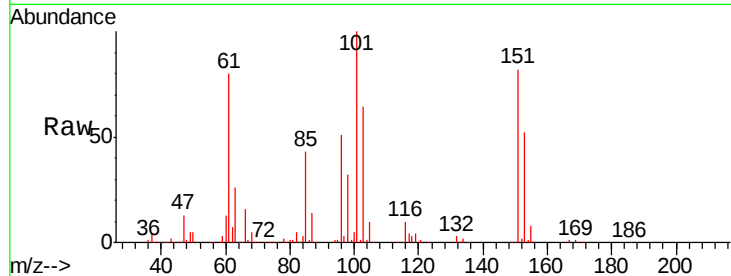
151 81.1 0.0 158.4

Manual Integrations

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#10

1,1-Dichloroethene

Concen: 150.47 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

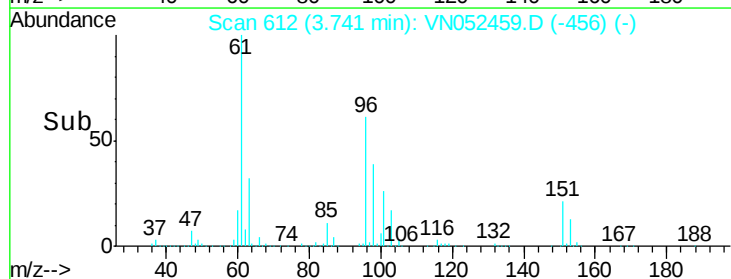
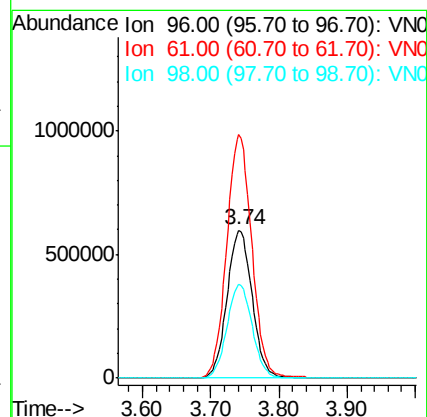
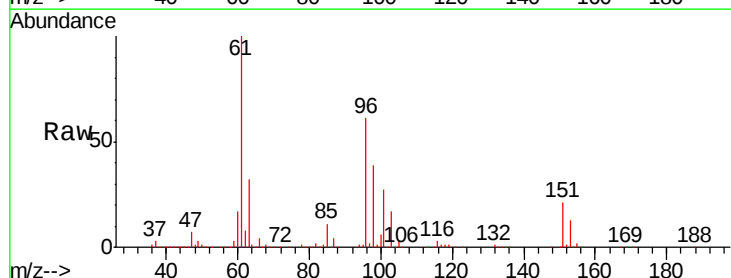
Tgt Ion: 96 Resp: 1534836

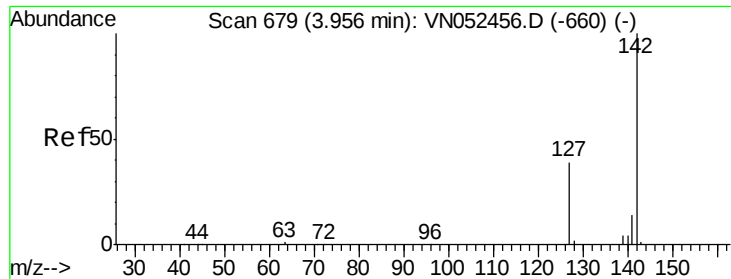
Ion Ratio Lower Upper

96 100

61 164.2 129.4 194.2

98 63.5 50.4 75.6





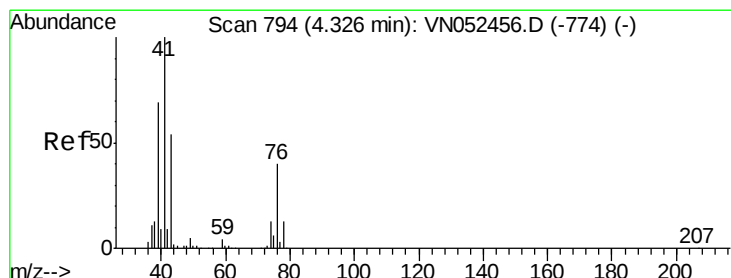
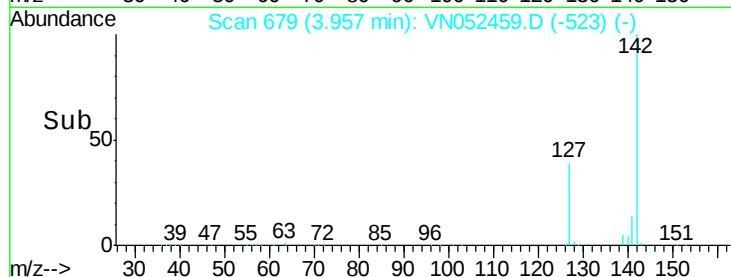
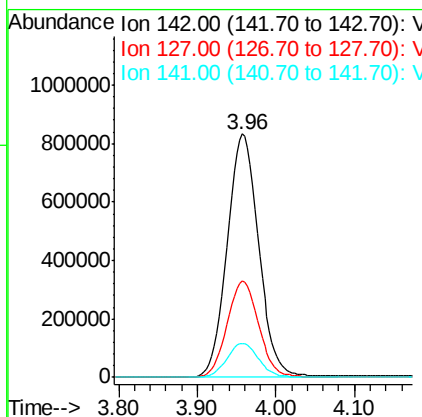
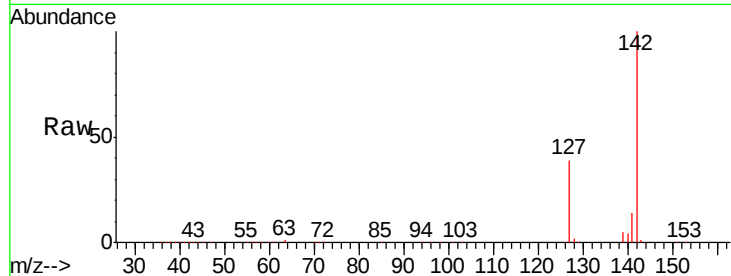
#11
Methyl Iodide
Concen: 164.32 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 142 Resp: 2327141
Ion Ratio Lower Upper
142 100
127 39.5 19.4 58.1
141 14.0 7.2 21.6

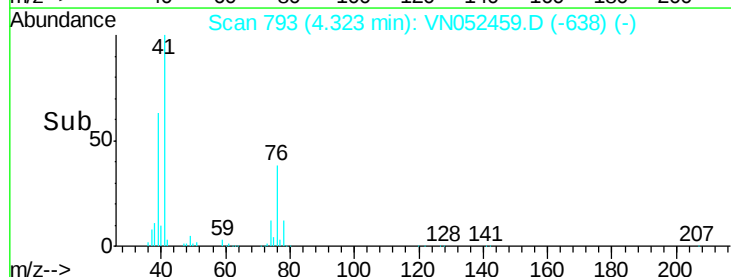
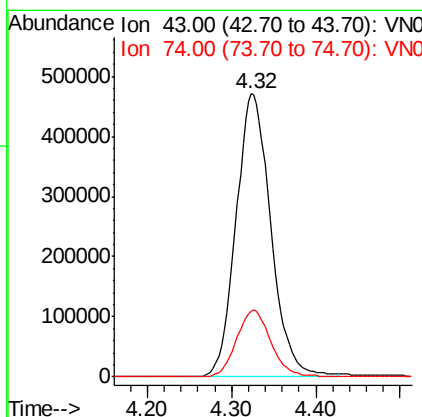
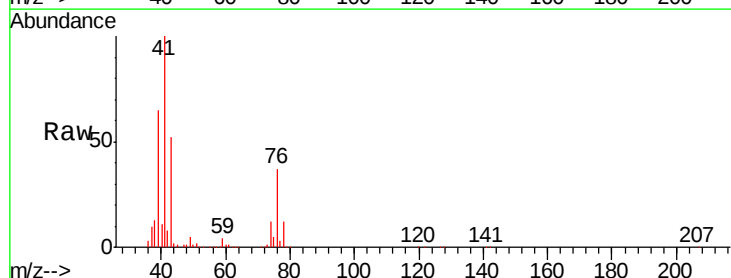
Manual Integrations
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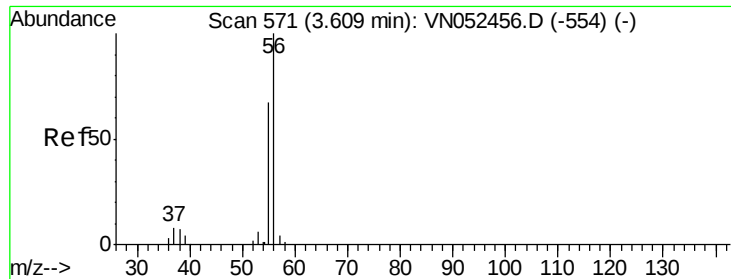
MMDadoda
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#12
Methyl Acetate
Concen: 155.37 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion: 43 Resp: 1346589
Ion Ratio Lower Upper
43 100
74 23.2 18.9 28.3





#13

Acrolein

Concen: 848.06 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 863374

Ion Ratio Lower Upper

56 100

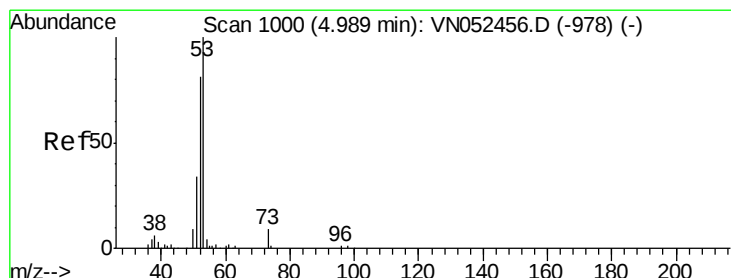
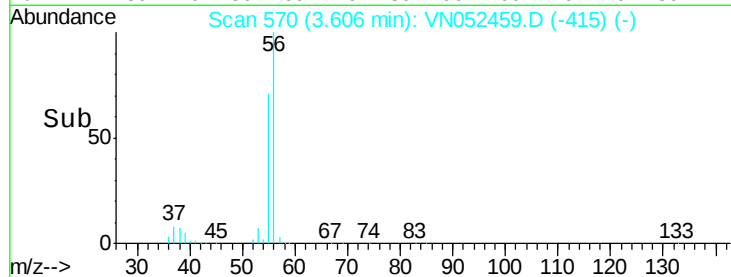
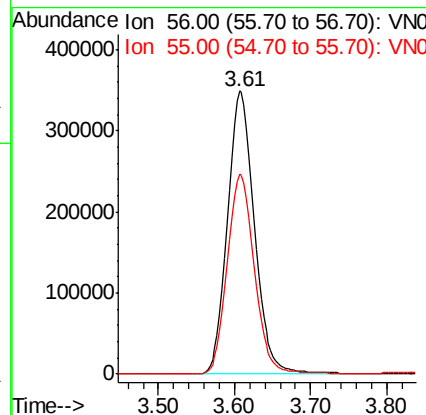
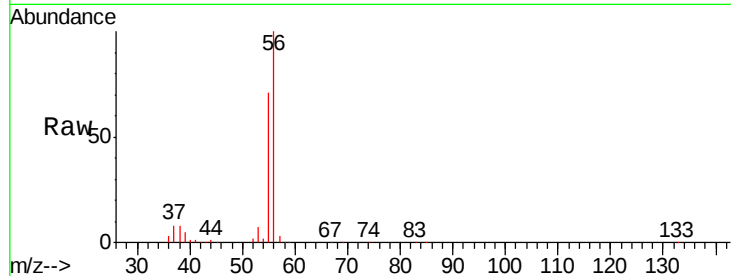
55 70.5 56.7 85.1

Manual Integrations

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#14

Acrylonitrile

Concen: 775.41 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

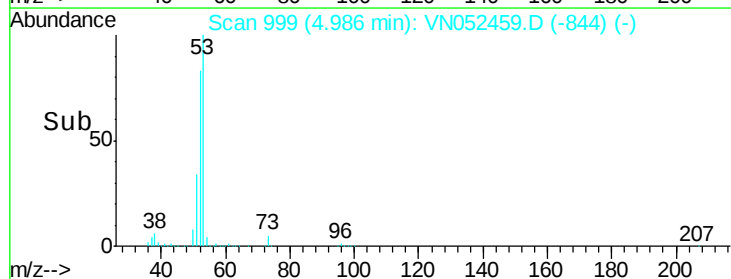
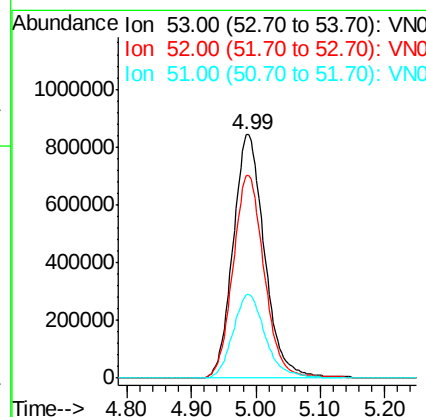
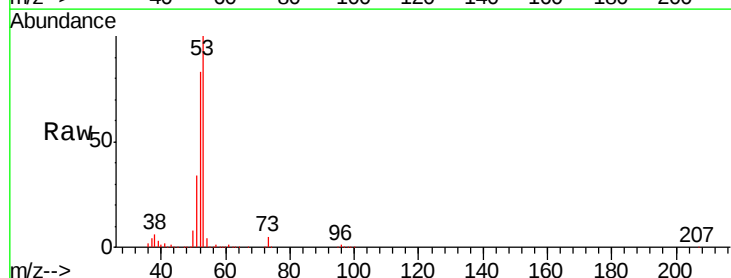
Tgt Ion: 53 Resp: 2863448

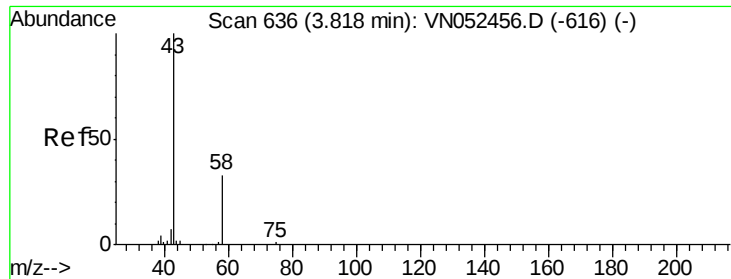
Ion Ratio Lower Upper

53 100

52 82.4 39.9 119.7

51 35.4 17.6 52.9





#15

Acetone

Concen: 729.70 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 58 Resp: 697852

Ion Ratio Lower Upper

58 100

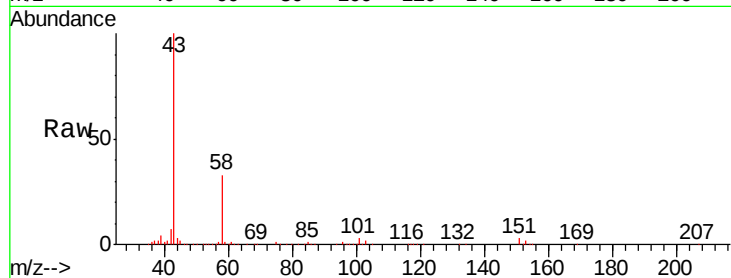
43 306.5 243.6 365.4

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Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

800000

600000

400000

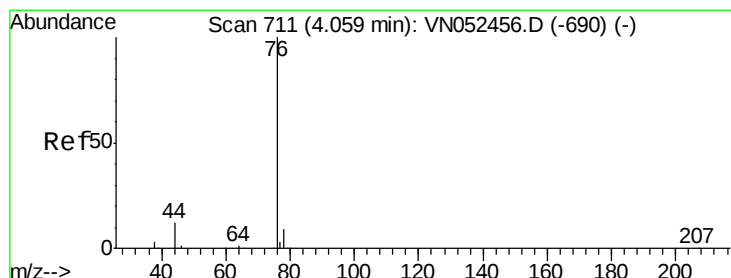
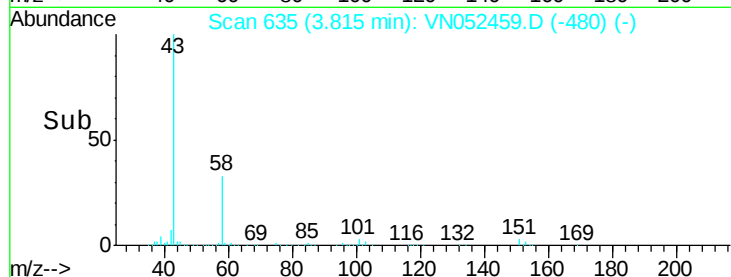
200000

0

3.70 3.80 3.90

3.82

Time-->



#16

Carbon Disulfide

Concen: 150.63 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN052459.D

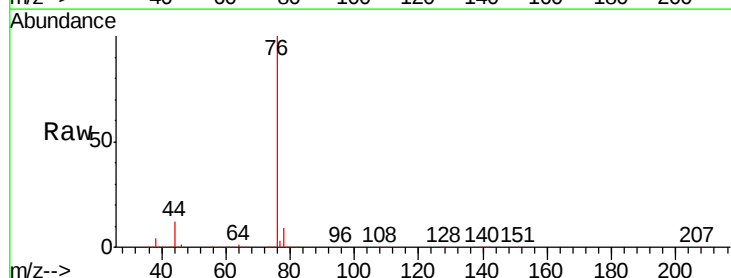
Acq: 26 Nov 2018 14:40

Tgt Ion: 76 Resp: 4864473

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

2000000

1500000

1000000

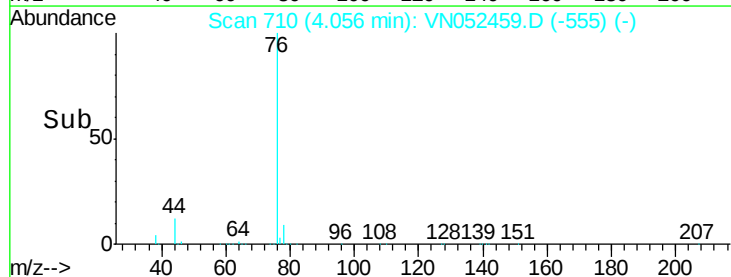
500000

0

3.90 4.00 4.10 4.20

4.06

Time-->





#17

Allyl chloride

Concen: 150.19 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 41 Resp: 2671796

Ion Ratio Lower Upper

41 100

39 65.0 32.8 98.3

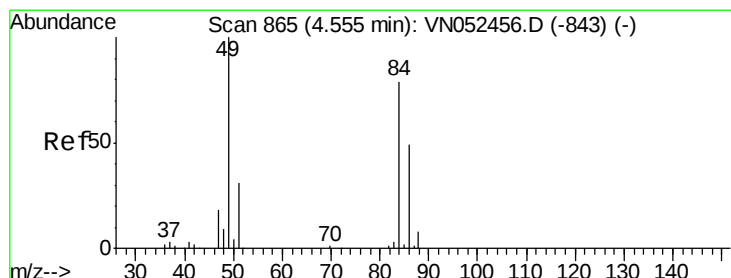
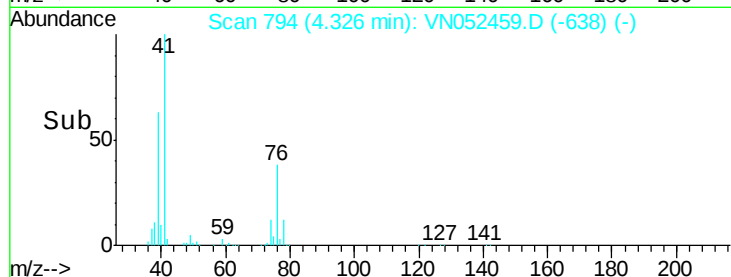
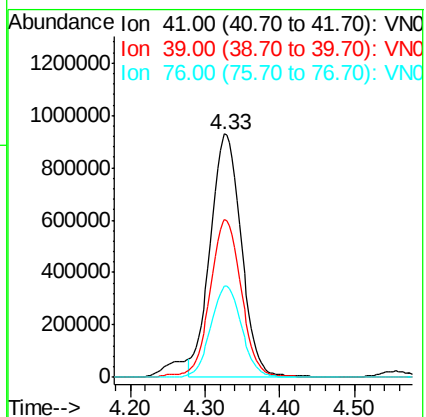
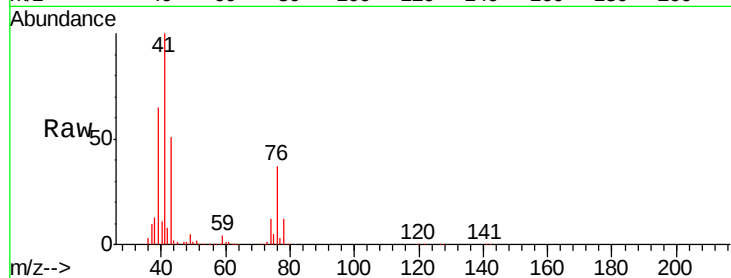
76 37.4 18.6 55.8

Manual Integrations

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#18

Methylene Chloride

Concen: 145.69 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Tgt Ion: 84 Resp: 1720658

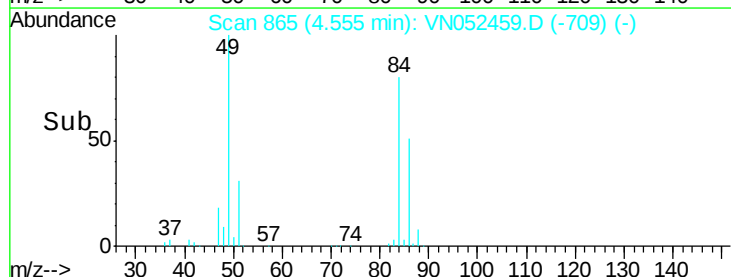
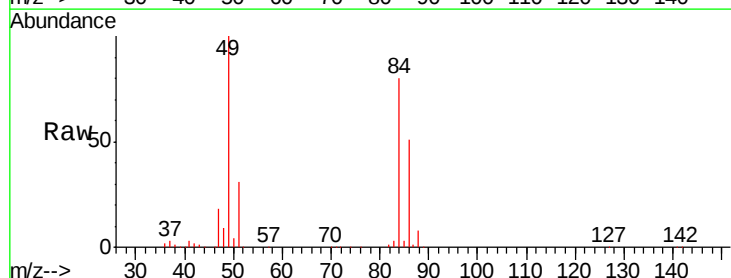
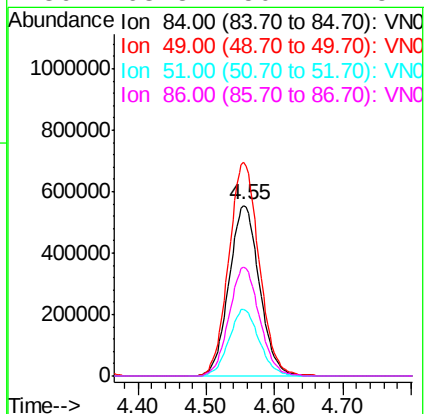
Ion Ratio Lower Upper

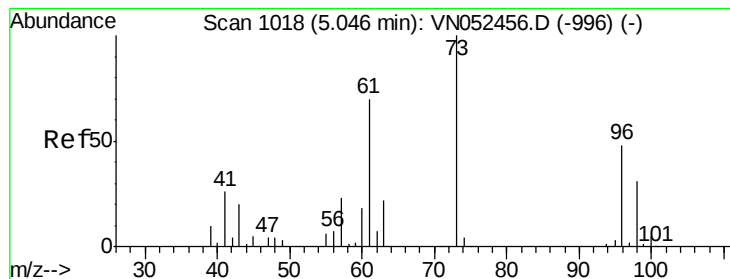
84 100

49 125.0 101.4 152.0

51 39.2 31.7 47.5

86 63.8 50.1 75.1





#19

trans-1,2-Dichloroethene

Concen: 150.31 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 1650034

Ion Ratio Lower Upper

96 100

61 145.9 118.2 177.4

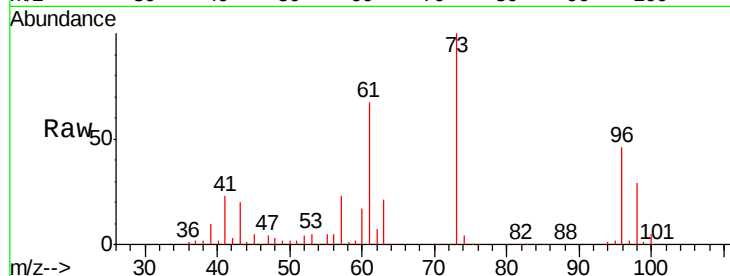
98 63.9 51.4 77.2

Manual Integrations

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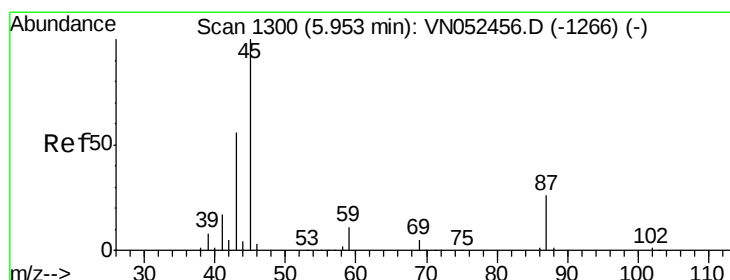
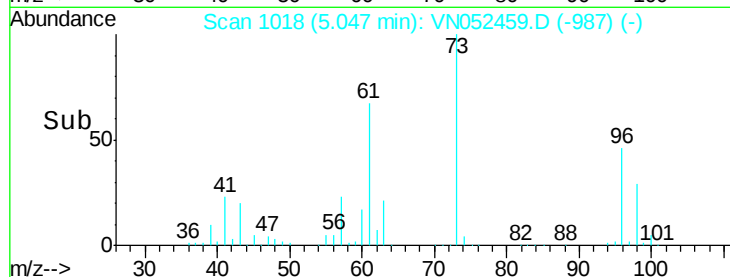
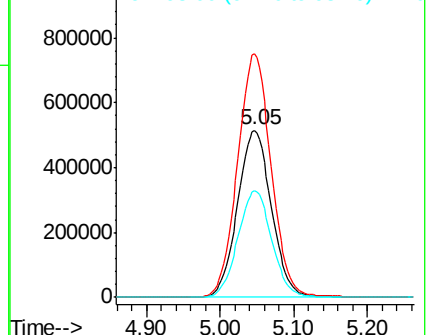


Abundance

Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#20

Diisopropyl ether

Concen: 150.14 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Tgt Ion: 45 Resp: 5612897

Ion Ratio Lower Upper

45 100

43 55.7 47.8 71.8

87 26.4 21.3 31.9

59 11.5 8.9 13.3

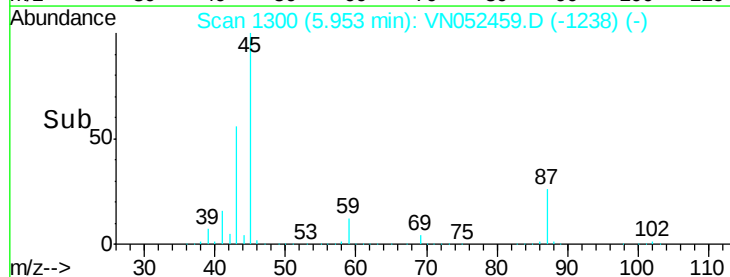
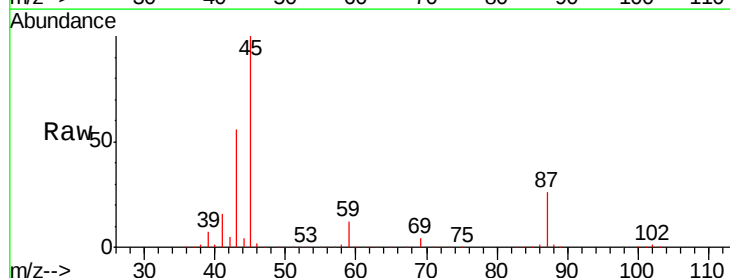
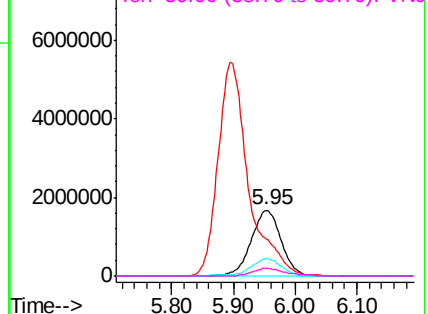
Abundance

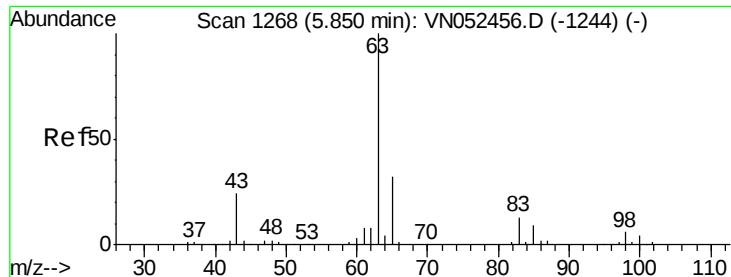
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





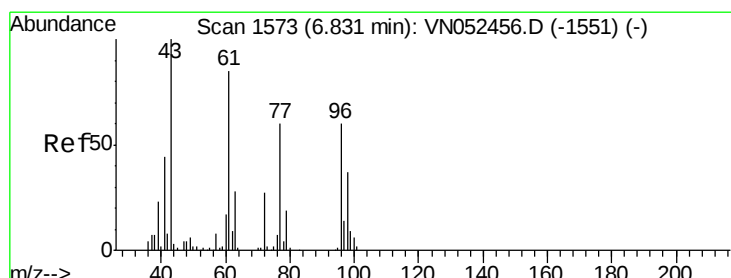
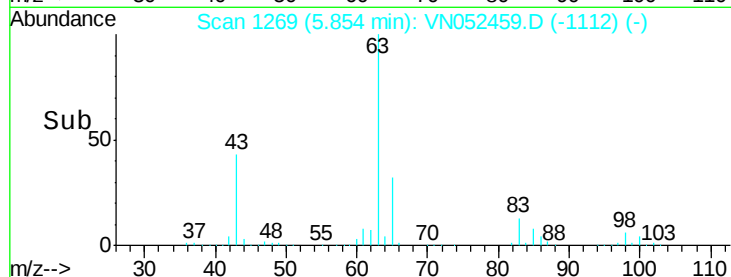
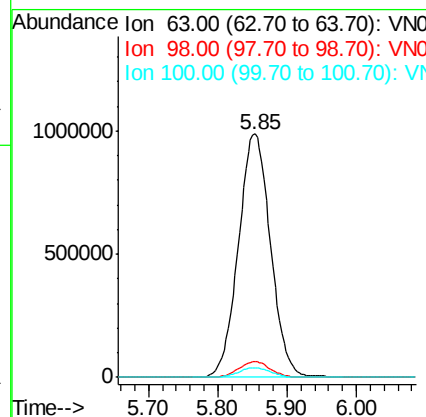
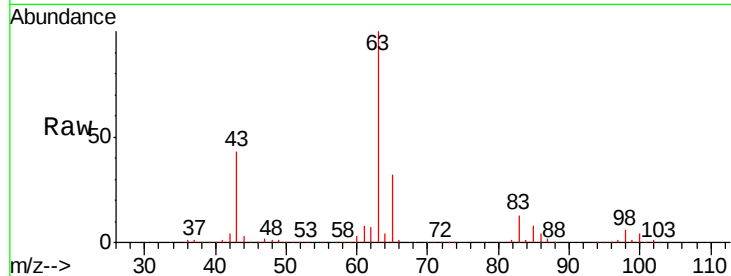
#21
 1,1-Dichloroethane
 Concen: 149.61 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 63 Resp: 3187627
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.0 9.2
 100 4.0 1.8 5.5

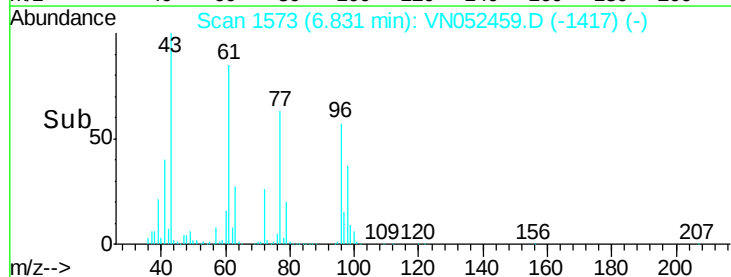
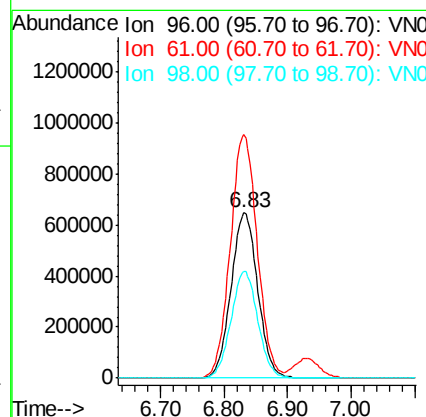
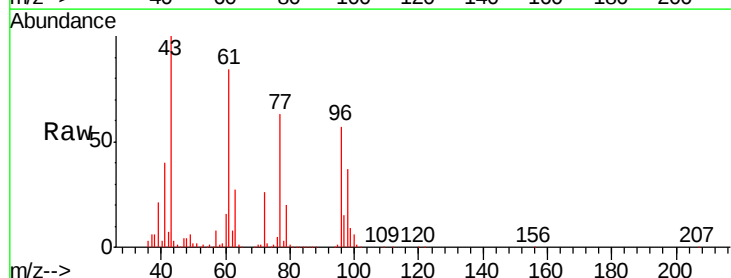
Manual Integrations
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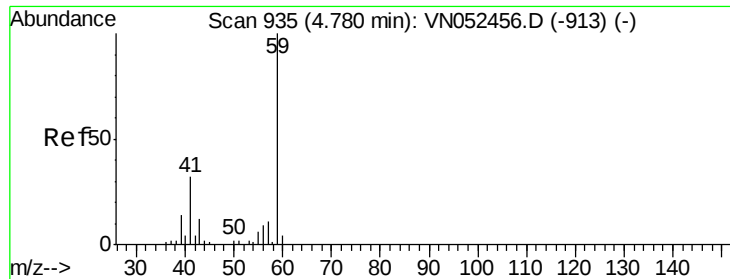
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 11/27/2018 3:52:11 PM



#22
 cis-1,2-Dichloroethene
 Concen: 150.64 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Tgt Ion: 96 Resp: 1895188
 Ion Ratio Lower Upper
 96 100
 61 147.8 116.7 175.1
 98 64.6 50.8 76.2





#23

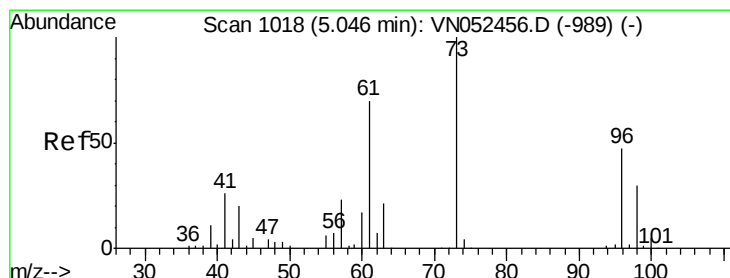
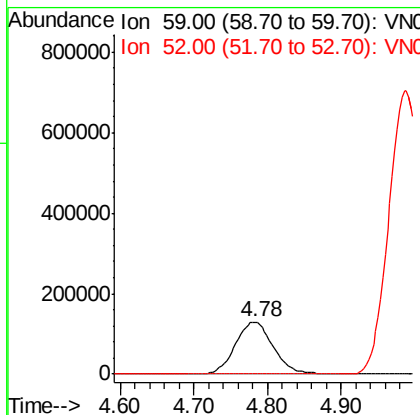
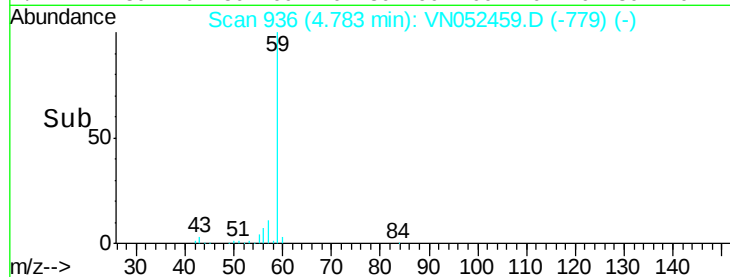
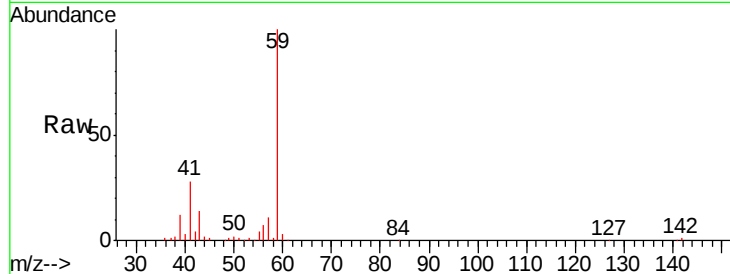
tert-Butyl Alcohol
Concen: 844.24 ug/l
RT: 4.78 min Scan# 936
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 59 Resp: 463773
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0#

Manual Integrations
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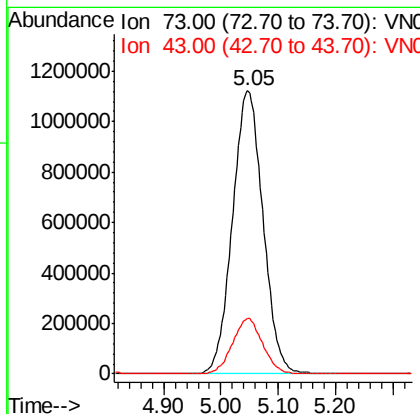
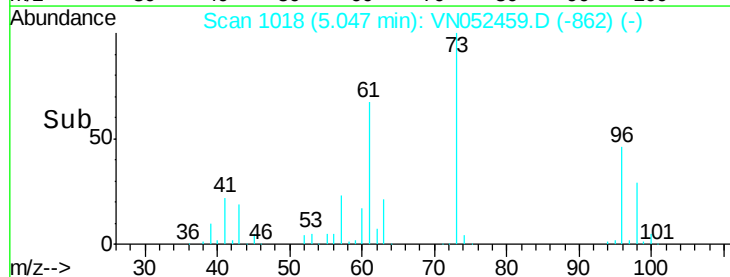
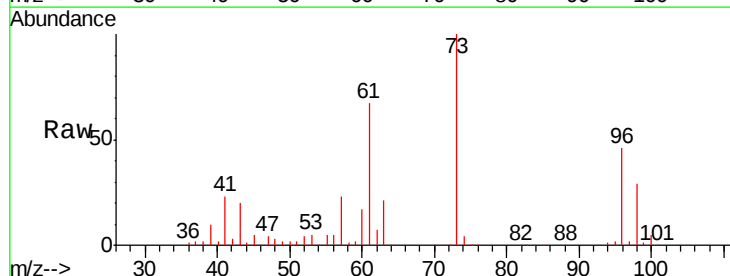
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11/27/2018 3:52:11 PM

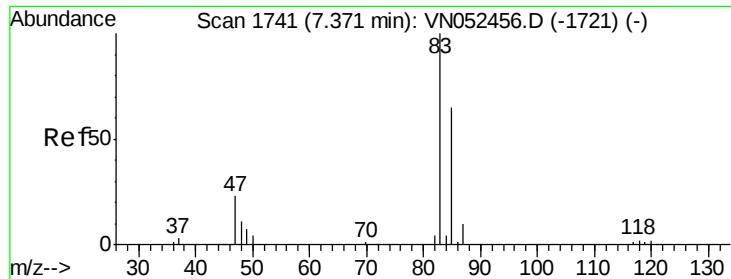


#24

Methyl tert-Butyl Ether
Concen: 155.56 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion: 73 Resp: 4162596
Ion Ratio Lower Upper
73 100
43 19.1 15.8 23.8





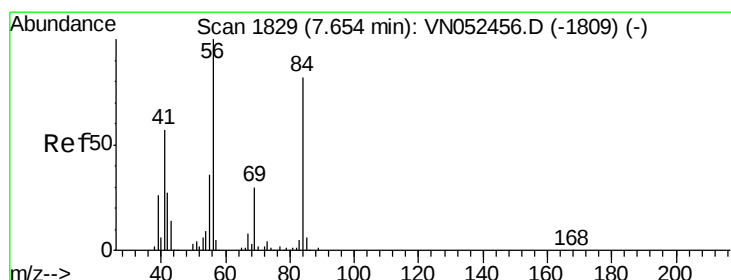
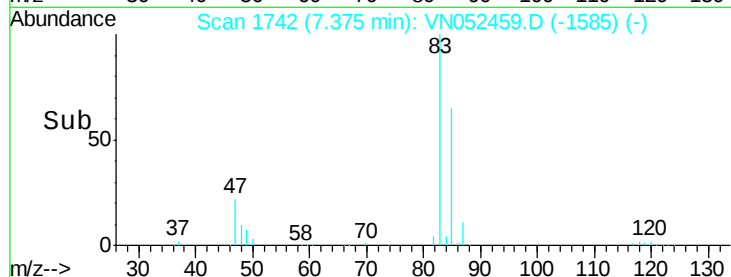
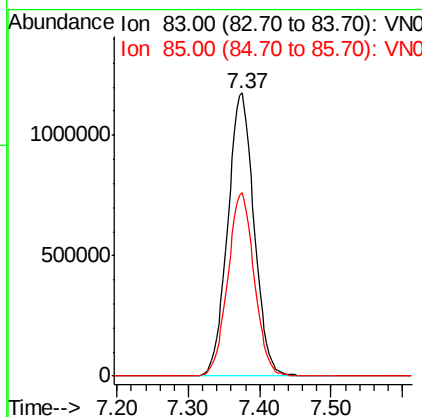
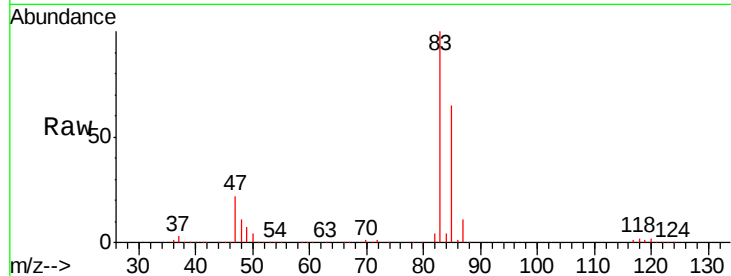
#25
Chloroform
Concen: 147.50 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 83 Resp: 3031898
Ion Ratio Lower Upper
83 100
85 64.8 51.7 77.5

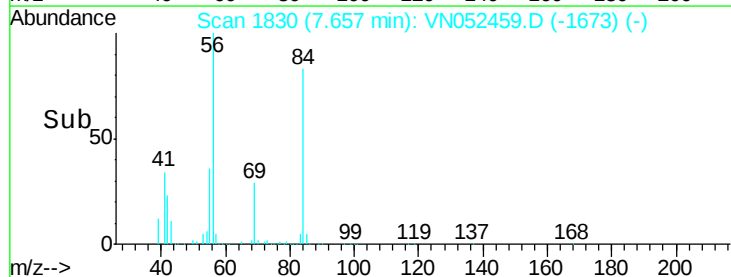
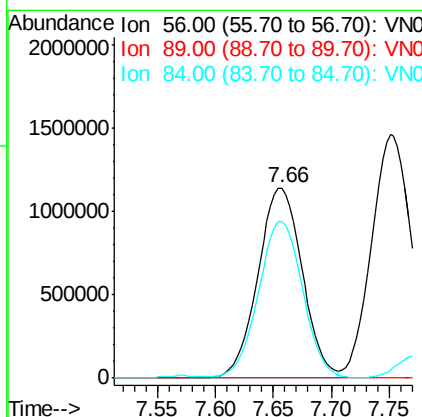
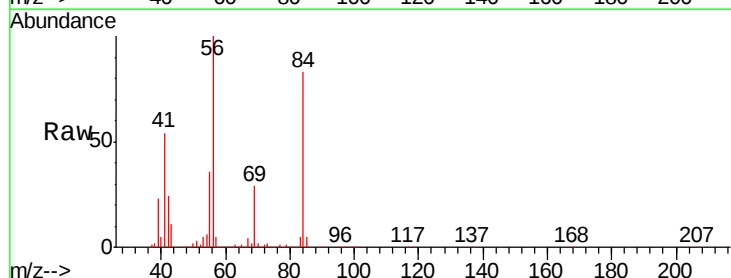
Manual Integrations
APPROVED

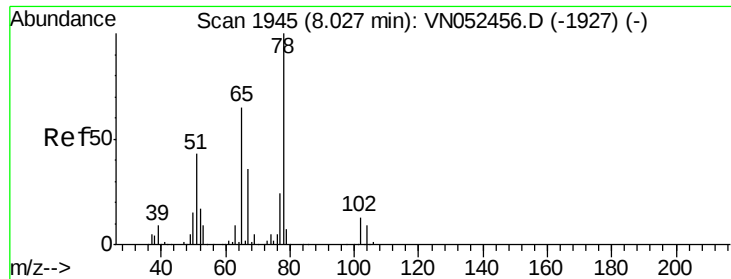
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11/27/2018 3:52:11 PM



#26
Cyclohexane
Concen: 150.87 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion: 56 Resp: 3031877
Ion Ratio Lower Upper
56 100
89 0.5 0.5 0.7#
84 82.3 66.2 99.2





#27

1,2-Dichloroethane-d4

Concen: 150.87 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 361749

Ion Ratio Lower Upper

65 100

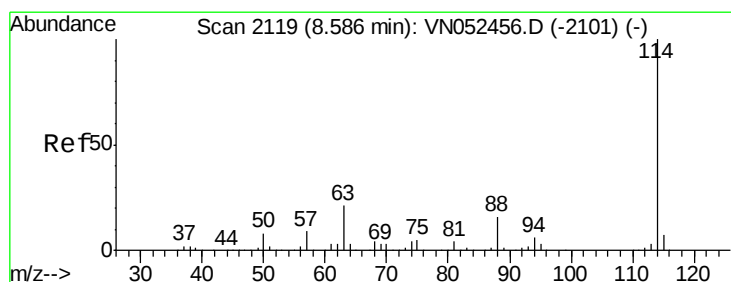
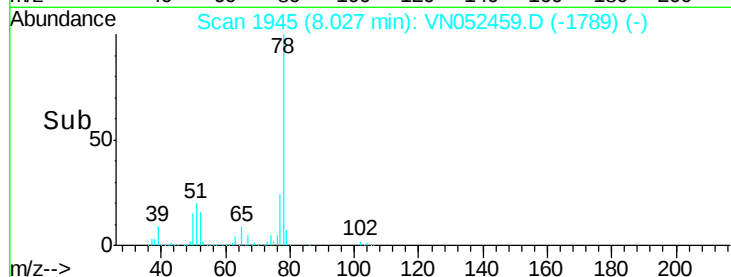
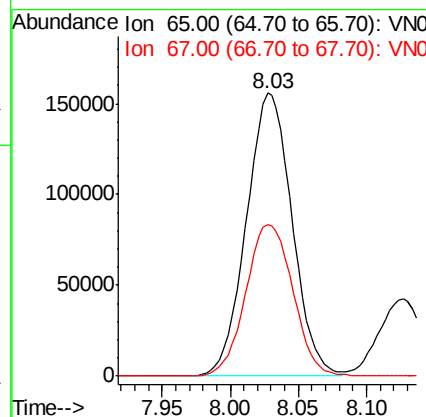
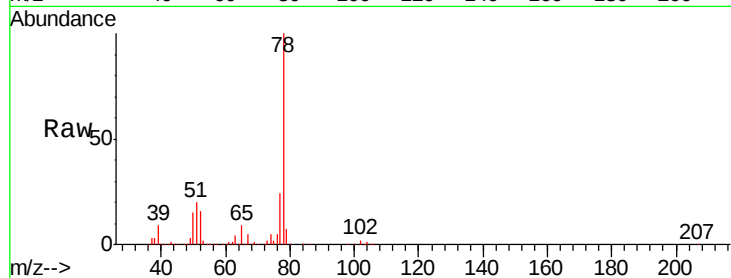
67 55.4 44.6 66.8

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#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

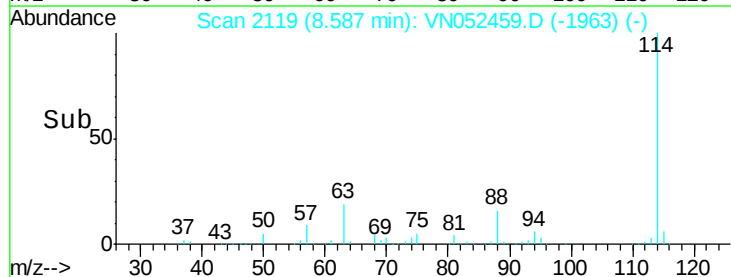
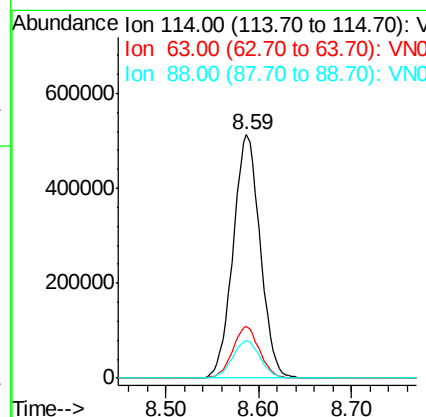
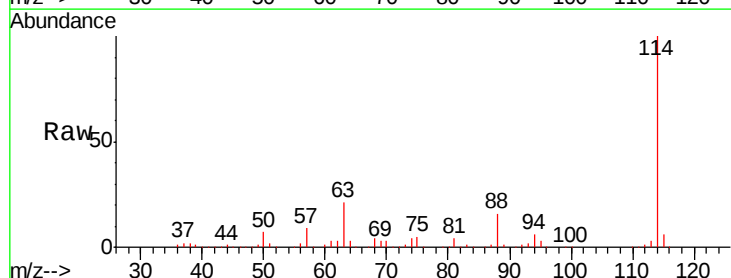
Tgt Ion: 114 Resp: 1037024

Ion Ratio Lower Upper

114 100

63 20.9 16.9 25.3

88 15.7 12.8 19.2





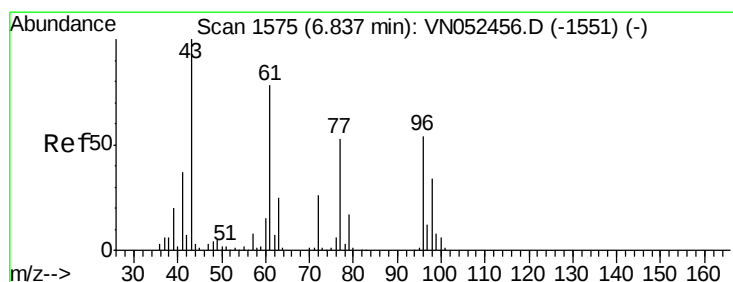
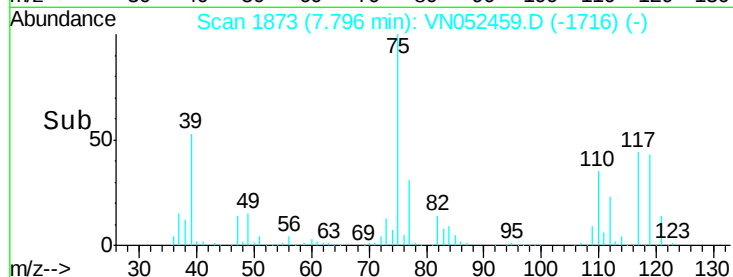
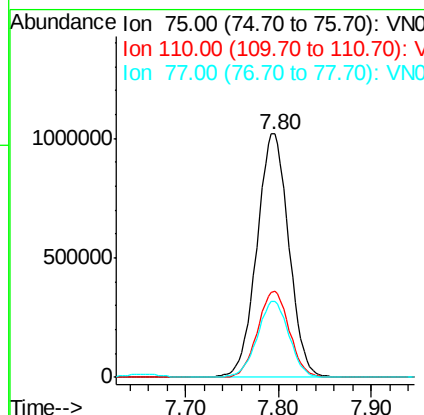
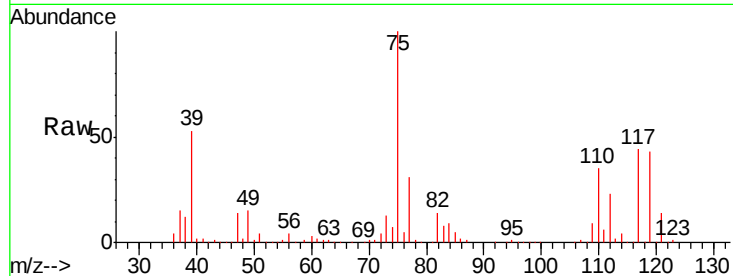
#29
 1,1-Dichloropropene
 Concen: 154.59 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 75 Resp: 2448176
 Ion Ratio Lower Upper
 75 100
 110 35.0 0.0 70.2
 77 31.0 0.0 62.6

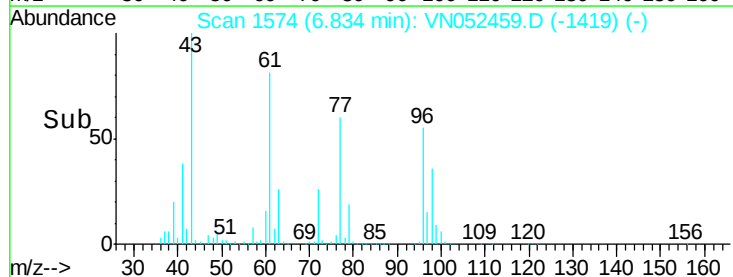
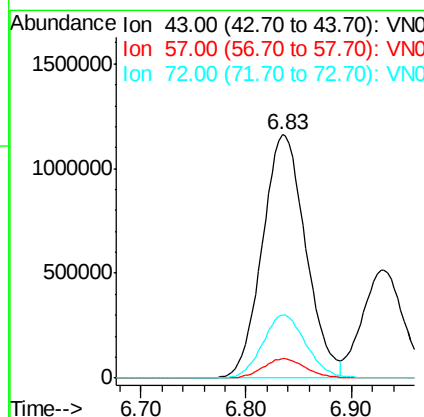
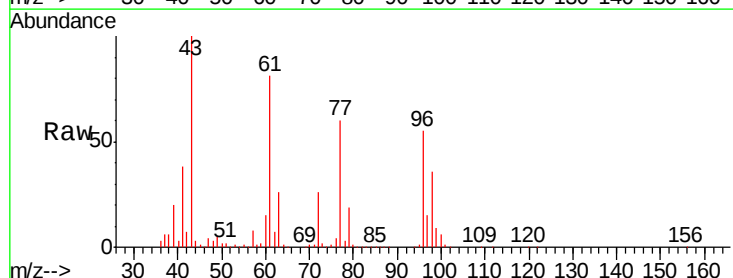
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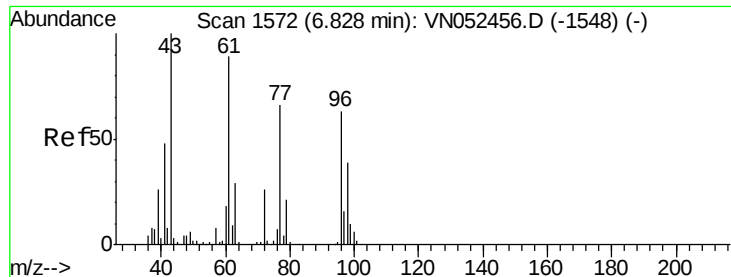
MMDadoda
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#30
 2-Butanone
 Concen: 783.81 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Tgt Ion: 43 Resp: 3321470
 Ion Ratio Lower Upper
 43 100
 57 8.0 6.2 9.4
 72 26.2 21.0 31.6





#31

2,2-Dichloropropane

Concen: 157.87 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 77 Resp: 2301677

Ion Ratio Lower Upper

77 100

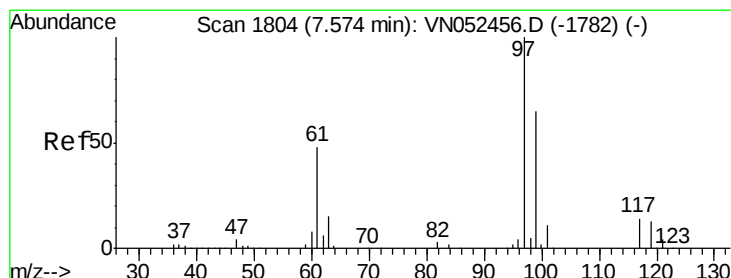
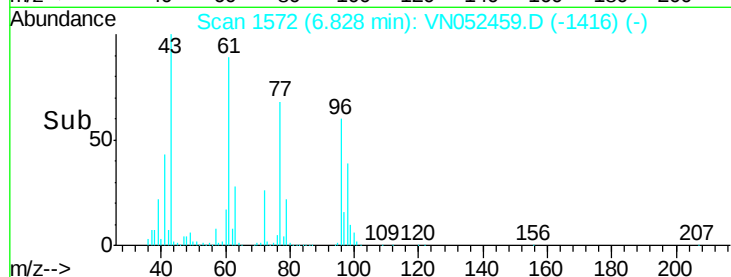
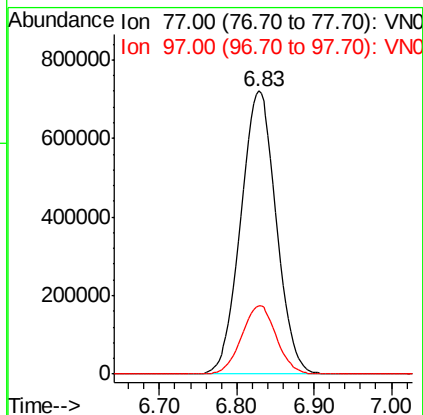
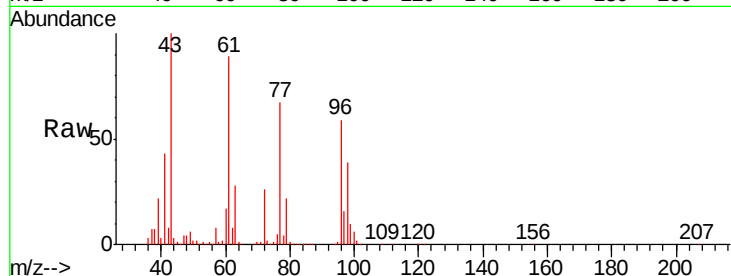
97 23.7 18.7 28.1

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#32

1,1,1-Trichloroethane

Concen: 154.55 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

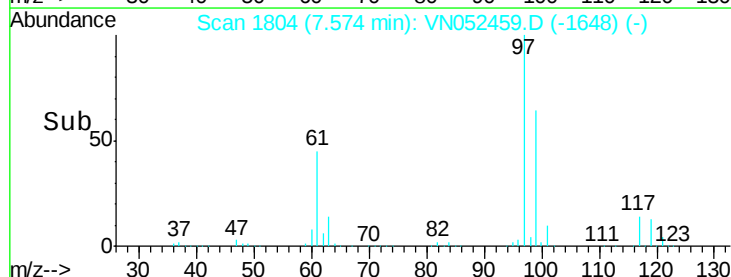
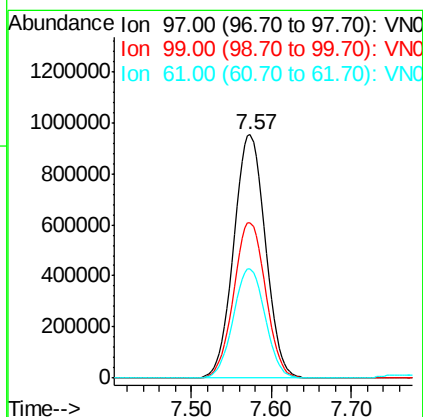
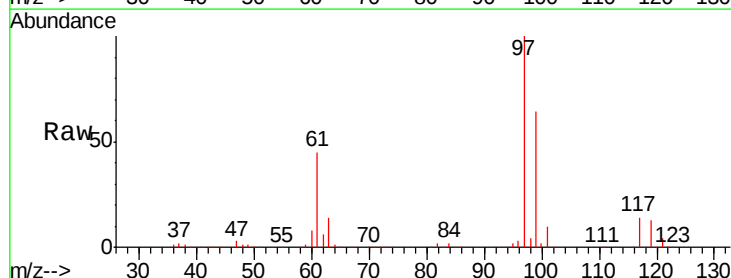
Tgt Ion: 97 Resp: 2546745

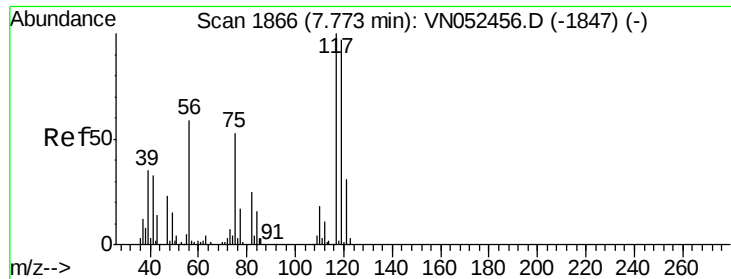
Ion Ratio Lower Upper

97 100

99 64.4 50.9 76.3

61 45.3 38.1 57.1





#33

Carbon Tetrachloride

Concen: 155.41 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:117 Resp: 2240702

Ion Ratio Lower Upper

117 100

119 96.4 77.3 115.9

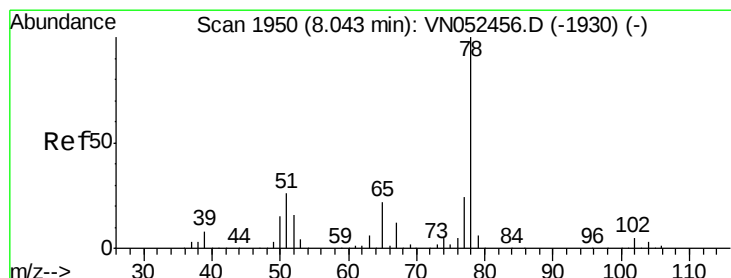
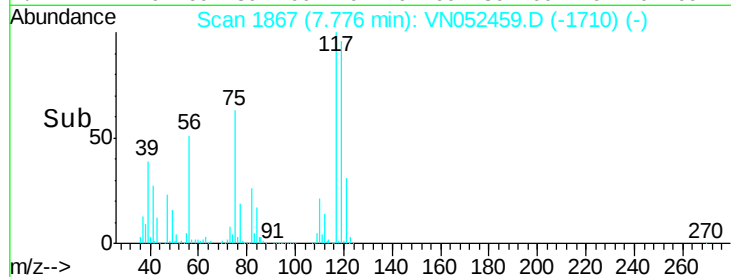
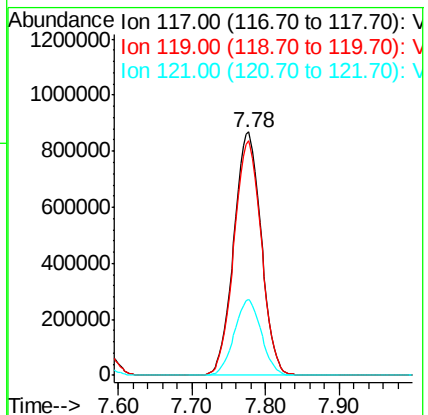
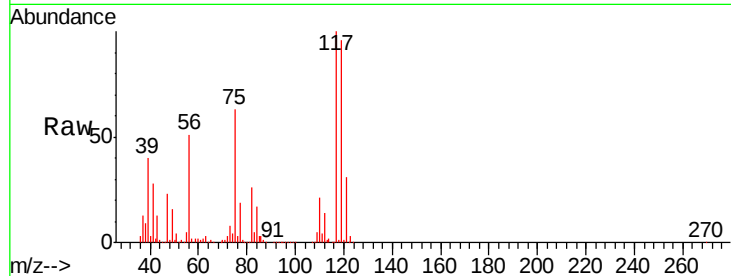
121 31.0 24.9 37.3

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#34

Benzene

Concen: 151.75 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

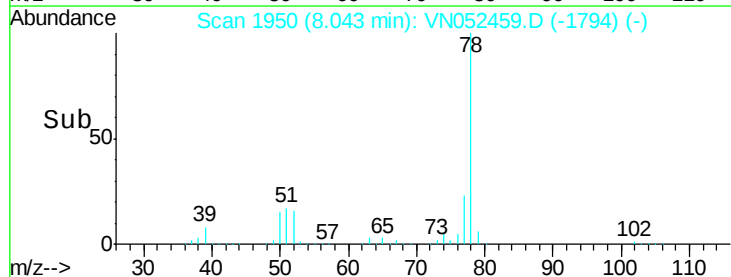
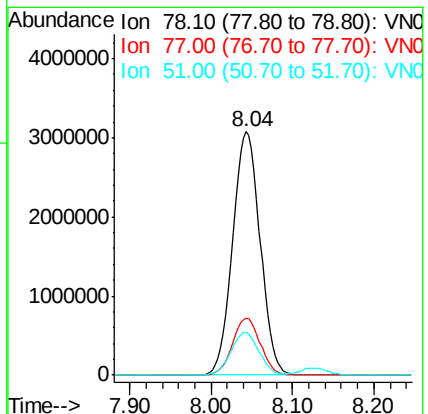
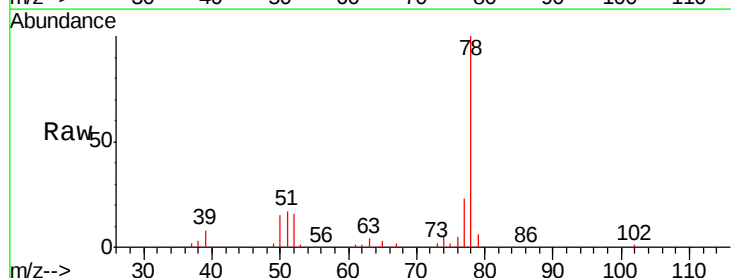
Tgt Ion: 78 Resp: 7225200

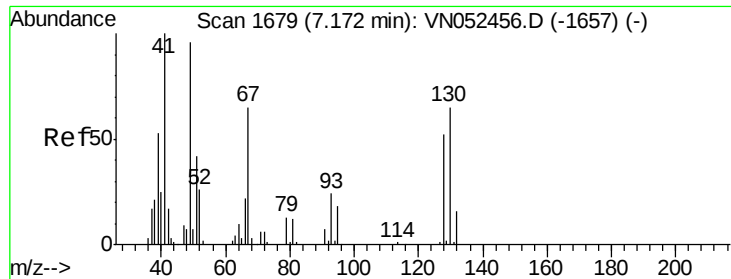
Ion Ratio Lower Upper

78 100

77 23.5 19.0 28.6

51 17.4 20.5 30.7#





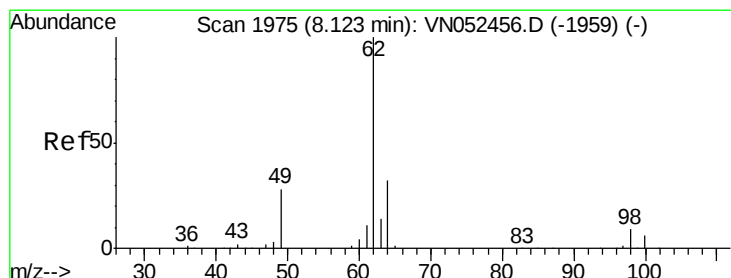
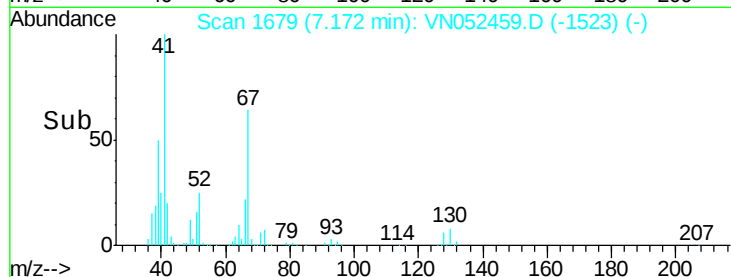
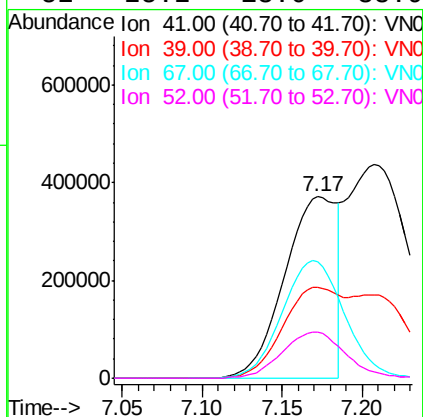
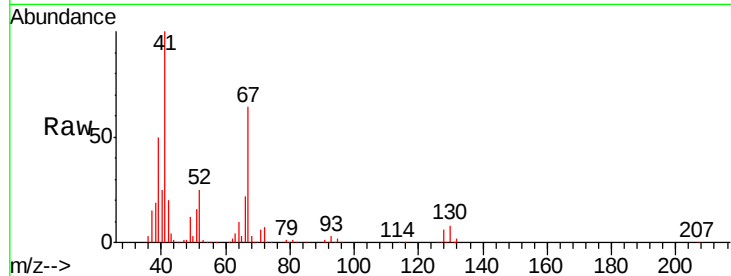
#35
Methacrylonitrile
Concen: 116.07 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	49.8	26.6	79.7	
67	64.2	32.3	96.9	
52	25.2	13.0	38.9	

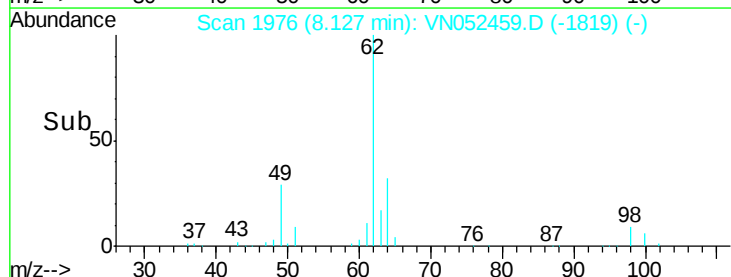
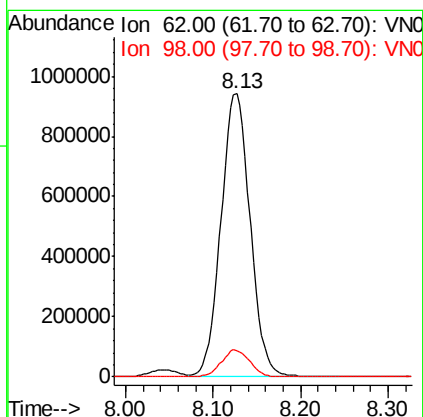
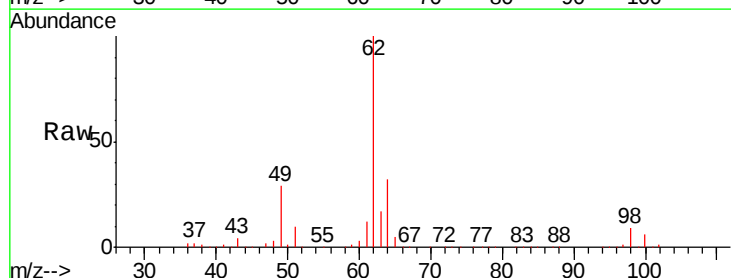
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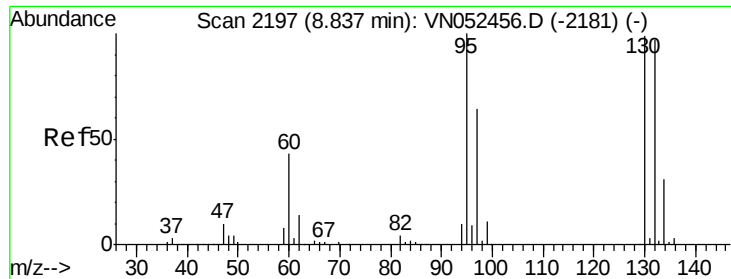
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#36
1,2-Dichloroethane
Concen: 151.32 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.3	7.4	11.2	





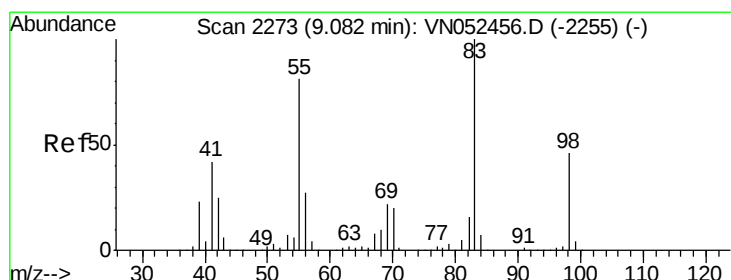
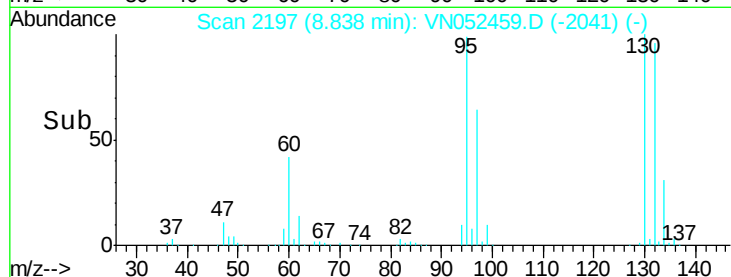
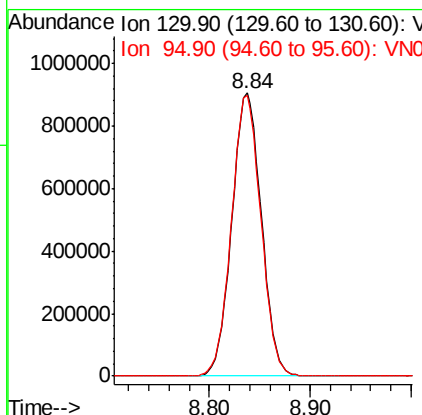
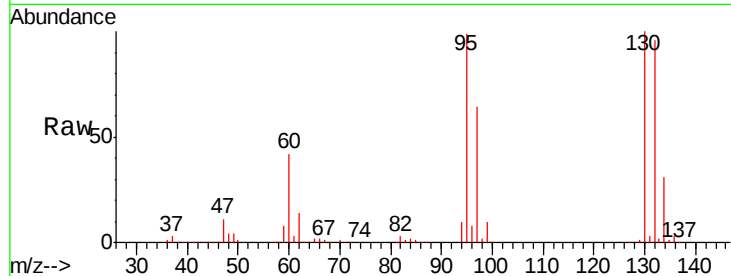
#37
 Trichloroethene
 Concen: 152.50 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 130 Resp: 1841228
 Ion Ratio Lower Upper
 130 100
 95 99.4 81.0 121.4

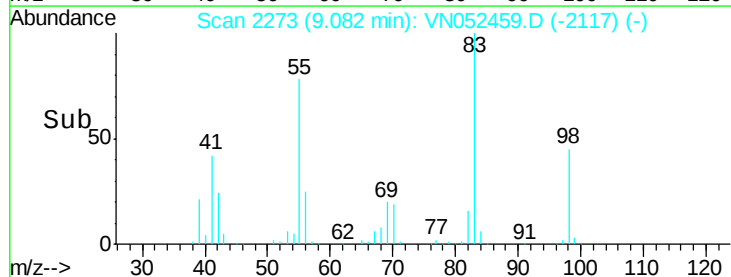
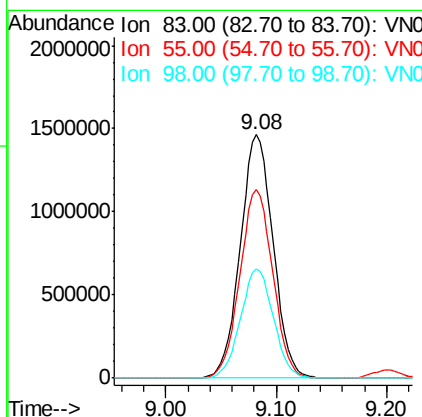
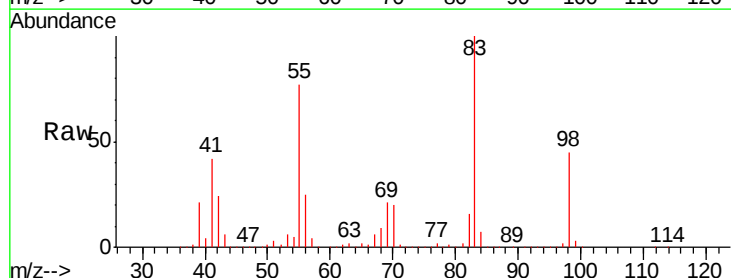
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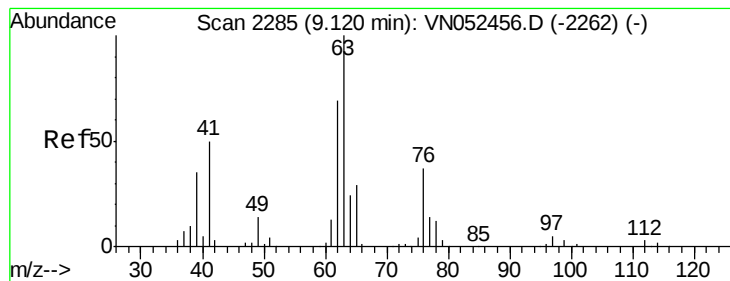
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#38
 Methylcyclohexane
 Concen: 153.63 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Tgt Ion: 83 Resp: 3011742
 Ion Ratio Lower Upper
 83 100
 55 77.5 39.8 119.4
 98 45.0 22.9 68.5





#39

1,2-Dichloropropane

Concen: 152.62 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 1947919

Ion Ratio Lower Upper

63 100

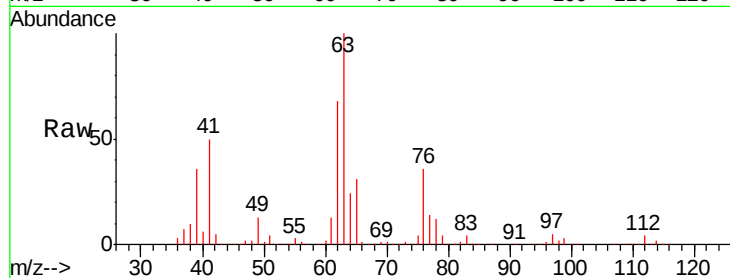
65 31.1 23.6 35.4

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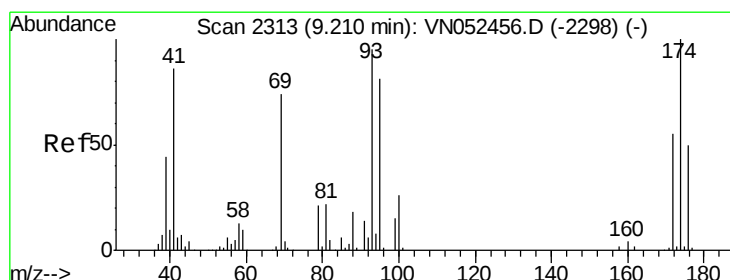
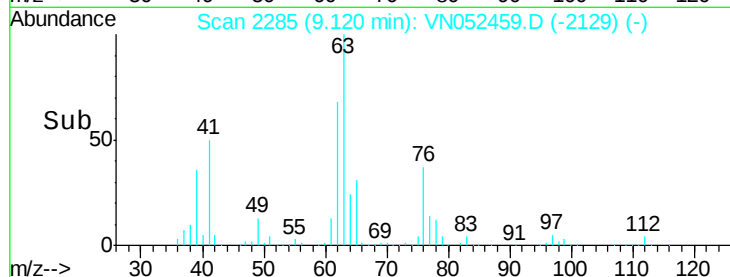
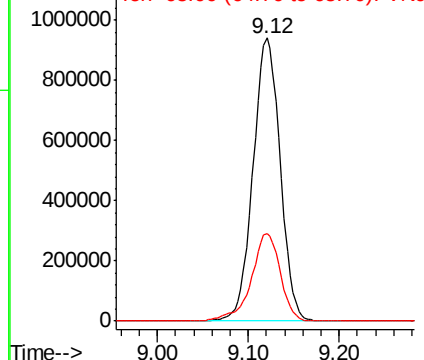
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Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 153.97 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

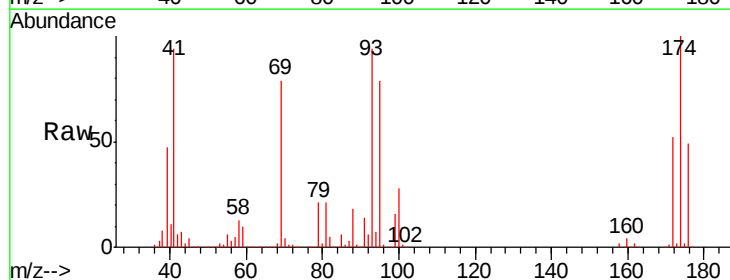
Tgt Ion: 93 Resp: 1061929

Ion Ratio Lower Upper

93 100

95 83.1 0.0 168.4

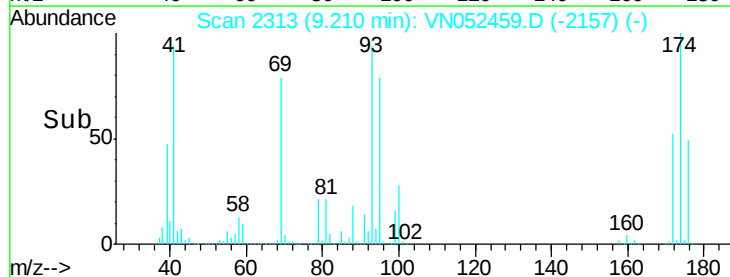
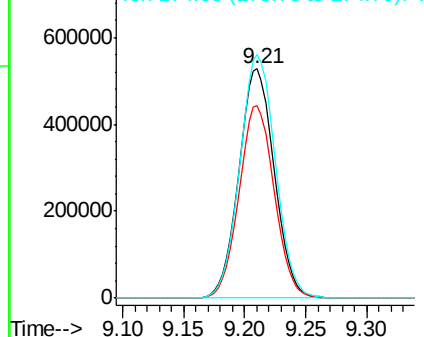
174 106.3 0.0 210.0

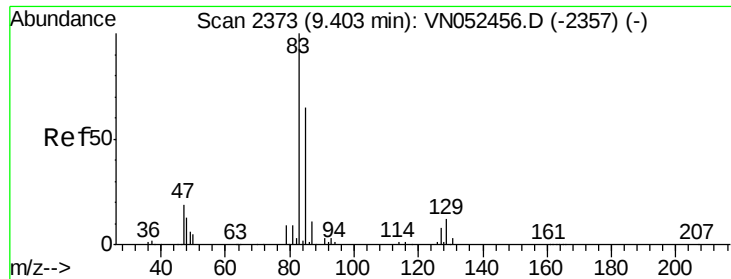


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





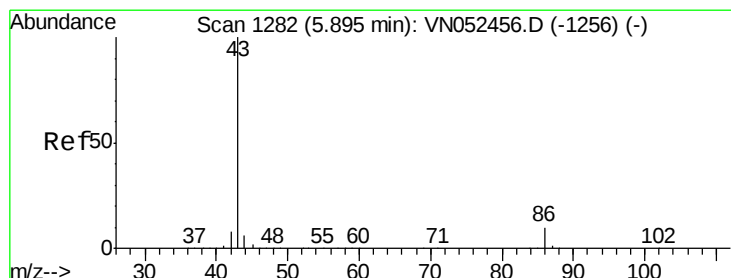
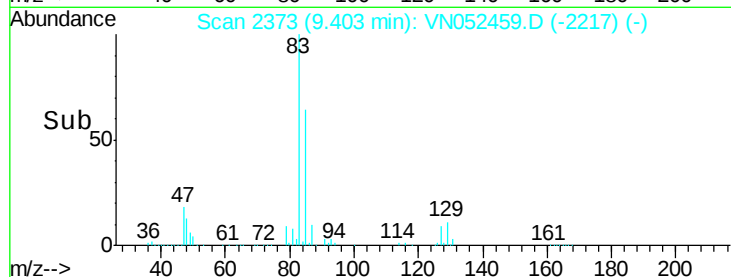
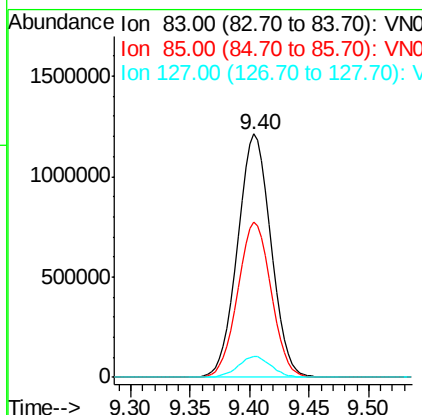
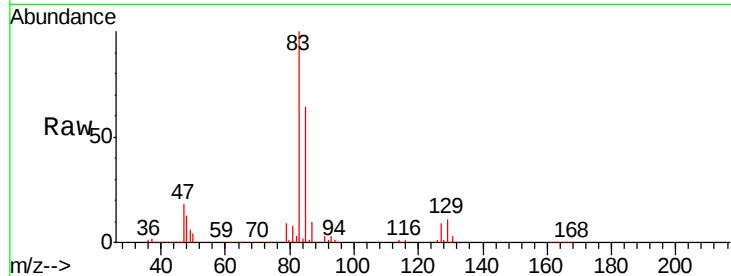
#41
Bromodichloromethane
Concen: 154.62 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 83 Resp: 2356068
Ion Ratio Lower Upper
83 100
85 63.8 52.4 78.6
127 8.7 6.6 9.8

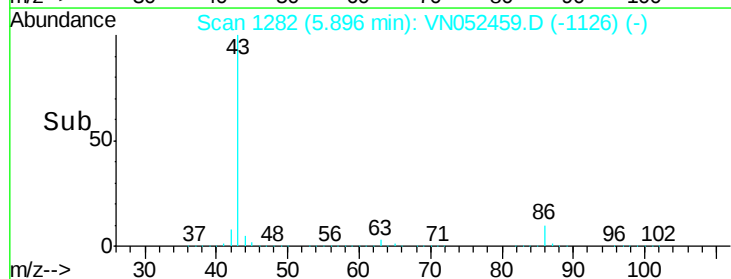
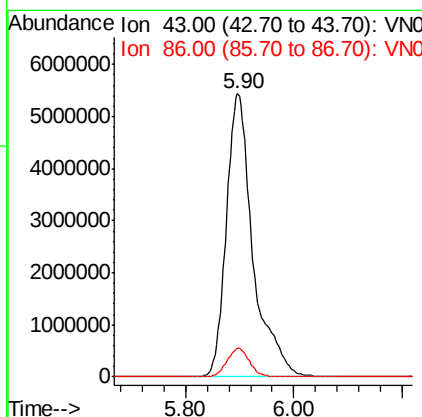
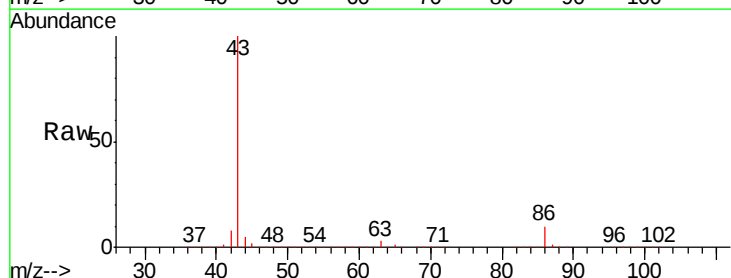
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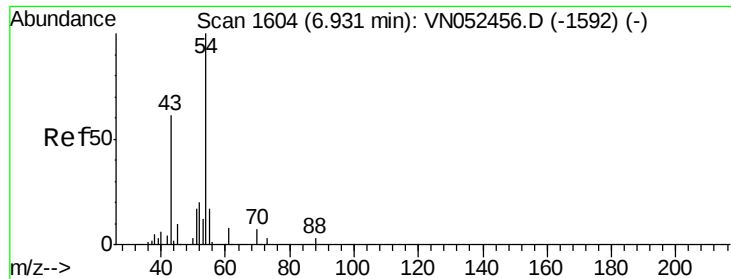
MMDadoda
11/27/2018 3:52:11 PM



#42
Vinyl Acetate
Concen: 813.46 ug/l
RT: 5.90 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion: 43 Resp: 18650893
Ion Ratio Lower Upper
43 100
86 8.5 6.5 9.7





#43

Ethyl Acetate

Concen: 76.22 ug/l

RT: 6.93 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 1436871

Ion Ratio Lower Upper

43 100

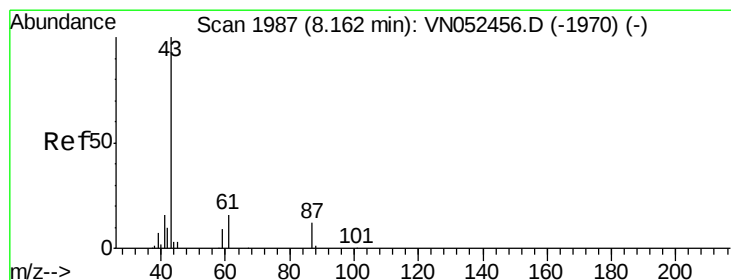
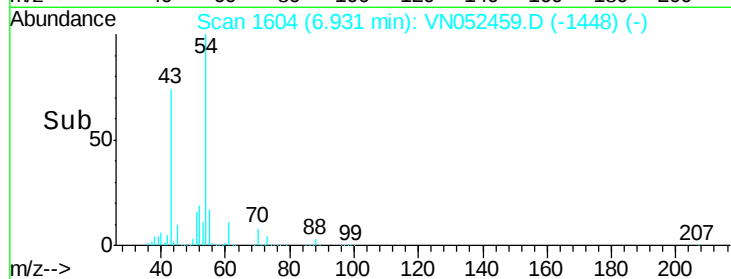
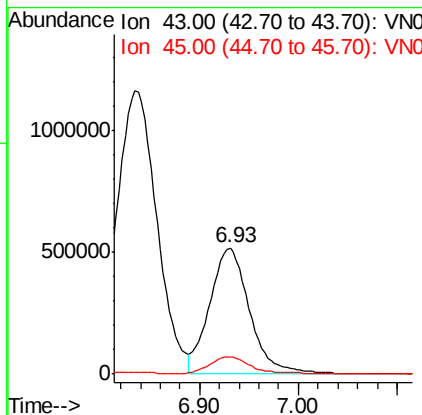
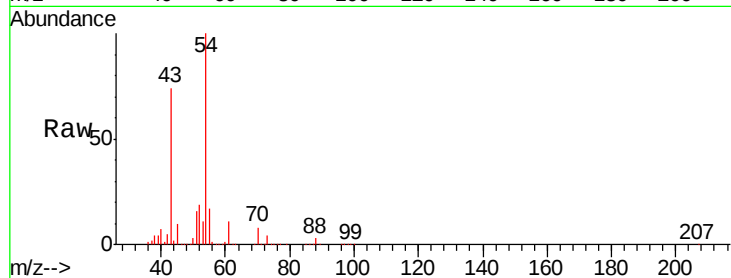
45 14.9 1.0 1.6#

Manual Integrations

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#44

Isopropyl Acetate

Concen: 165.60 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN052459.D

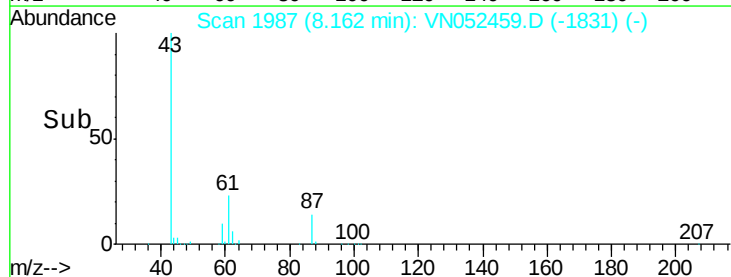
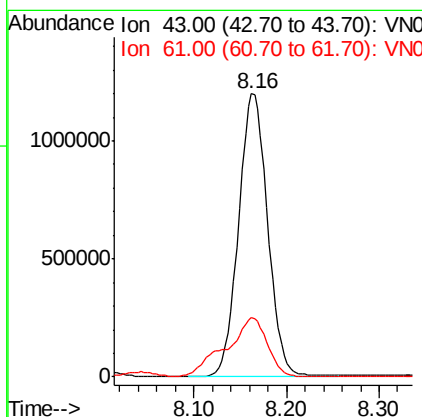
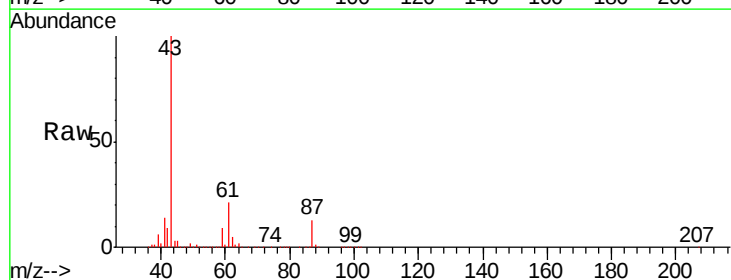
Acq: 26 Nov 2018 14:40

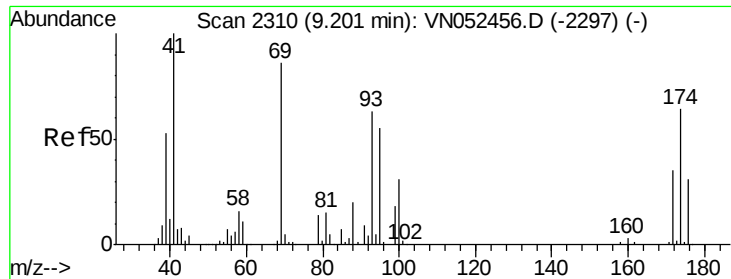
Tgt Ion: 43 Resp: 2616945

Ion Ratio Lower Upper

43 100

61 29.6 16.0 24.0#





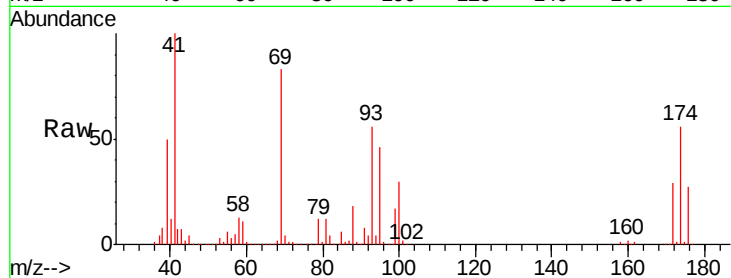
#45
 1,4-Dioxane
 Concen: 3262.59 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	282061		
43	35.4	29.5	44.3	
58	73.0	61.5	92.3	

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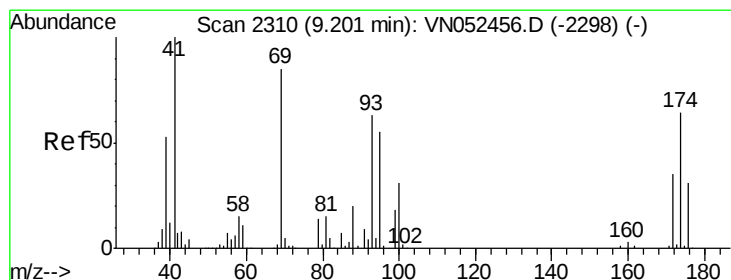
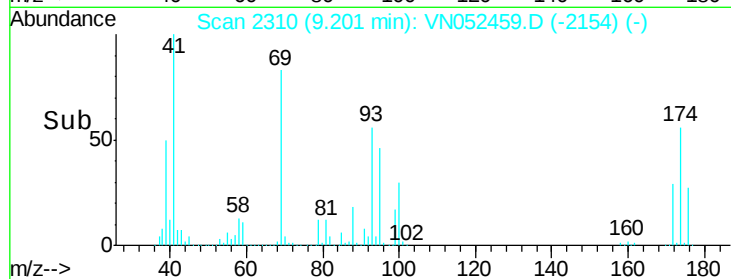
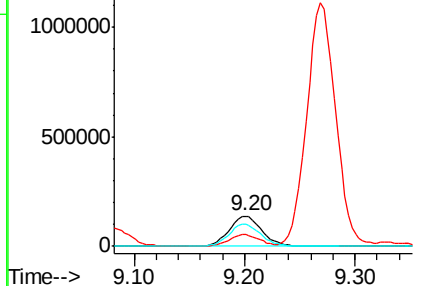


Abundance

Ion 88.00 (87.70 to 88.70): VN052459.D (-2154) (-)

Ion 43.00 (42.70 to 43.70): VN052459.D (-2154) (-)

Ion 58.00 (57.70 to 58.70): VN052459.D (-2154) (-)



#46
 Methyl methacrylate
 Concen: 167.46 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

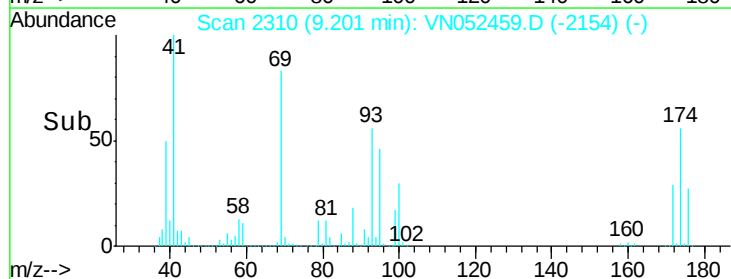
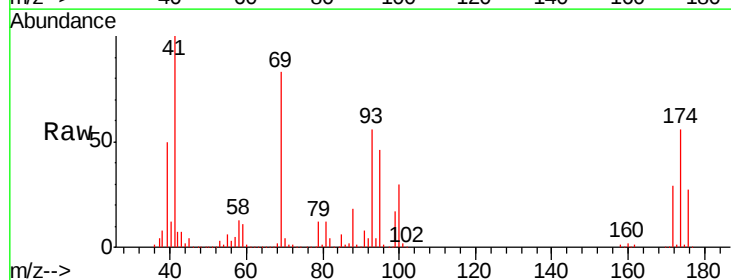
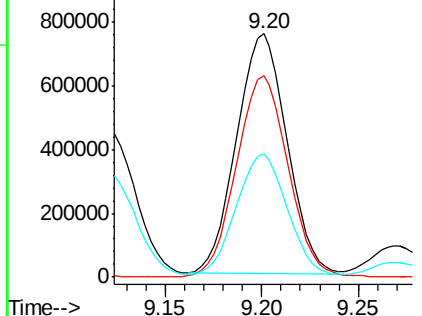
Tgt Ion	Ratio	Resp	Lower	Upper
41	100	1374046		
69	83.4	42.5	127.6	
39	50.2	26.3	78.9	

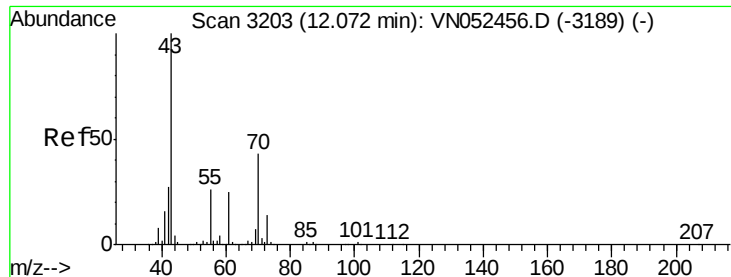
Abundance

Ion 41.00 (40.70 to 41.70): VN052459.D (-2154) (-)

Ion 69.00 (68.70 to 69.70): VN052459.D (-2154) (-)

Ion 39.00 (38.70 to 39.70): VN052459.D (-2154) (-)





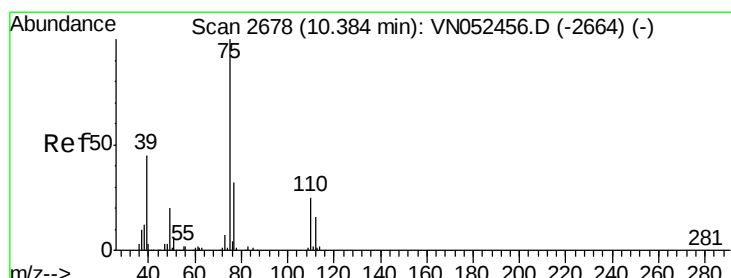
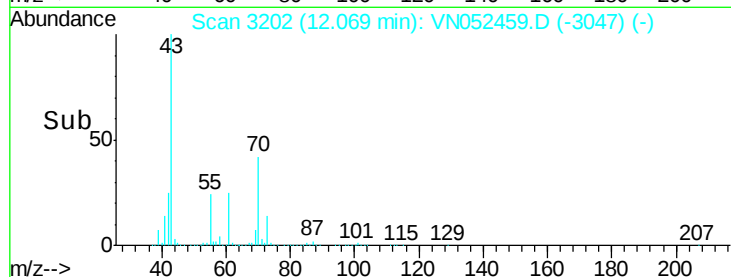
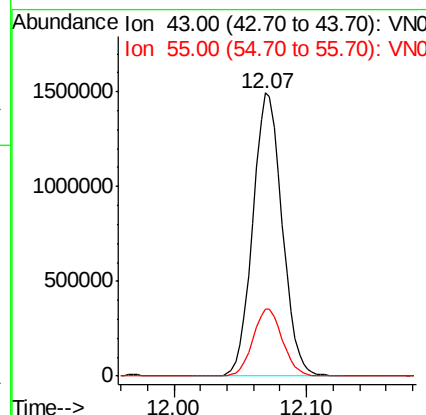
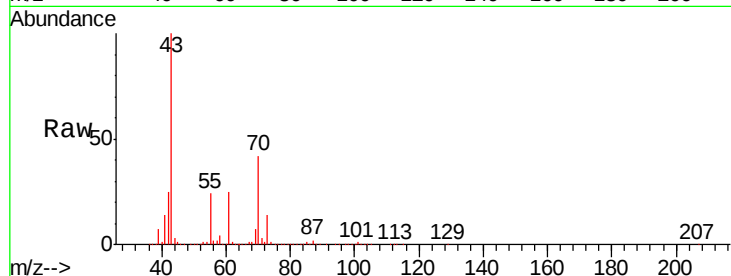
#47
n-amy1 Acetate
Concen: 175.07 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 43 Resp: 2293872
Ion Ratio Lower Upper
43 100
55 24.0 21.1 31.7

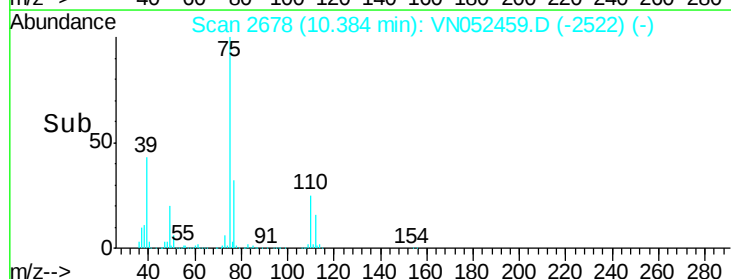
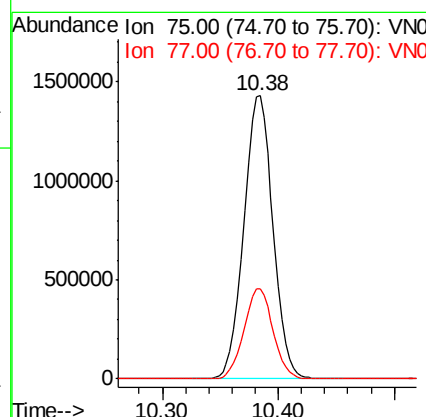
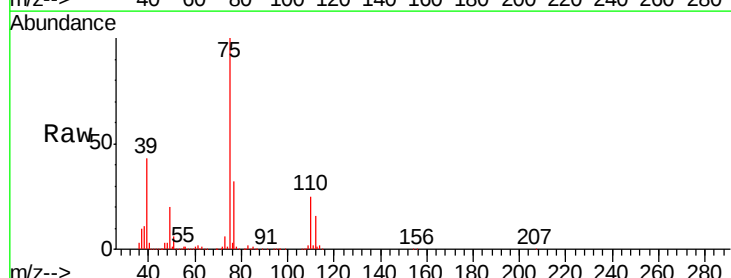
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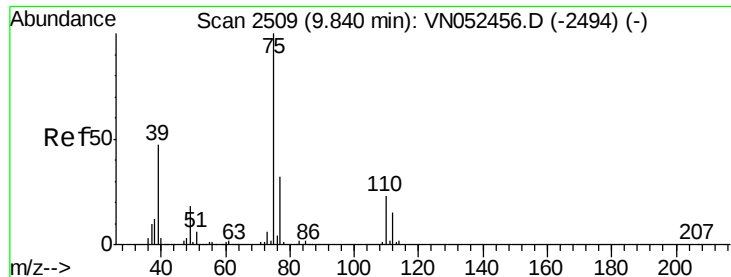
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#48
t-1,3-Dichloropropene
Concen: 168.08 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion: 75 Resp: 2483373
Ion Ratio Lower Upper
75 100
77 31.7 25.6 38.4





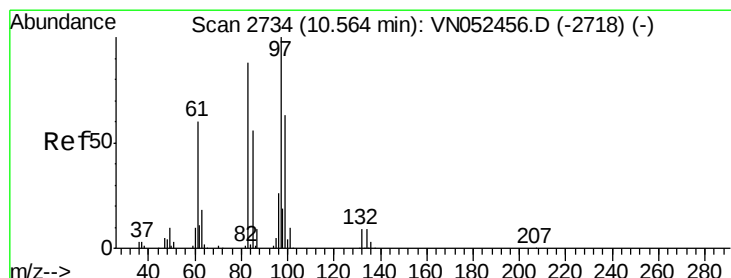
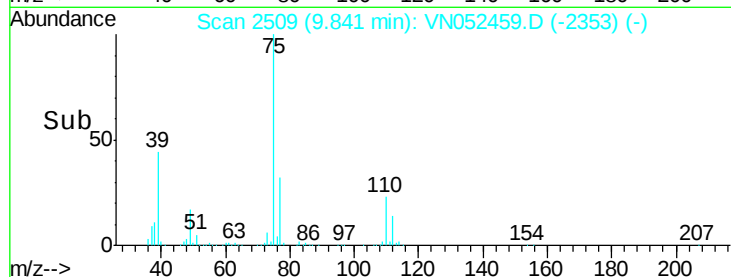
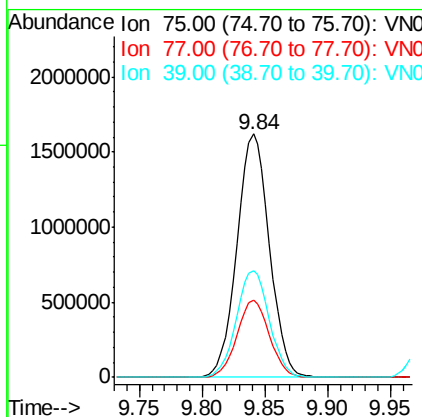
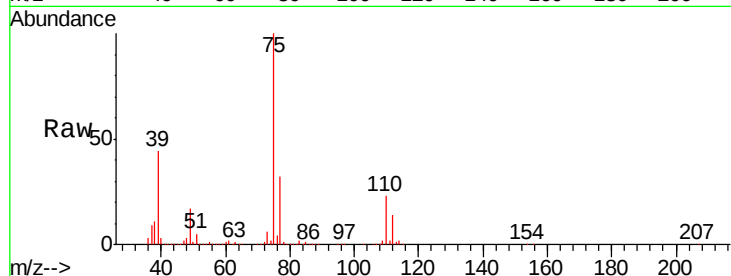
#49
 cis-1,3-Dichloropropene
 Concen: 161.43 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 75 Resp: 2905932
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.4 38.0
 39 44.0 37.3 55.9

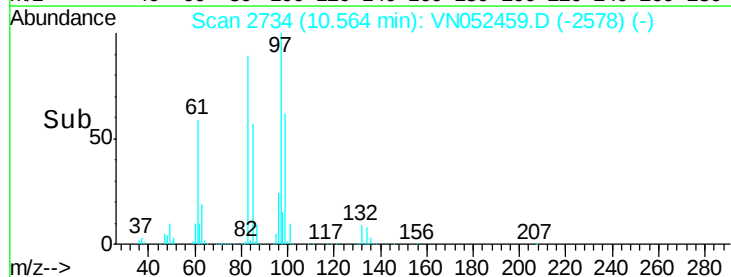
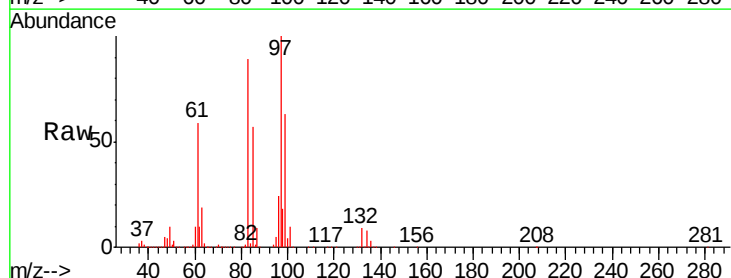
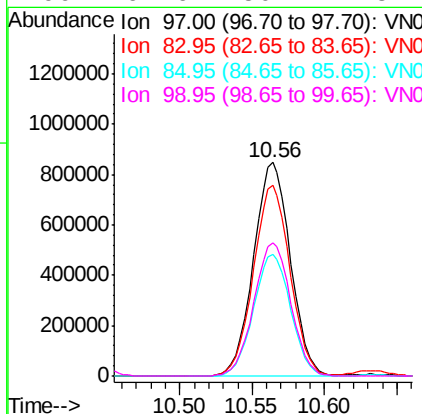
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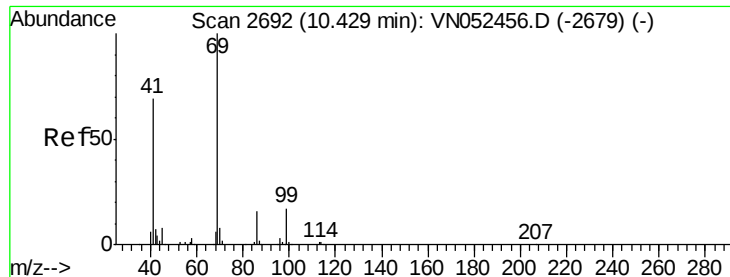
MMDadoda
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#50
 1,1,2-Trichloroethane
 Concen: 153.36 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Tgt Ion: 97 Resp: 1499352
 Ion Ratio Lower Upper
 97 100
 83 89.3 70.4 105.6
 85 57.2 45.0 67.6
 99 62.6 50.2 75.2





#51

Ethyl methacrylate

Concen: 166.77 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 69 Resp: 2047675

Ion Ratio Lower Upper

69 100

41 66.9 34.4 103.3

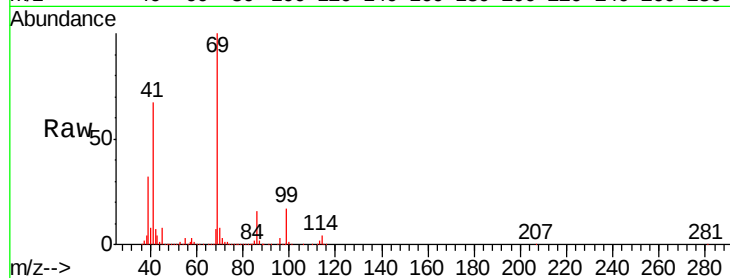
39 32.2 16.4 49.2

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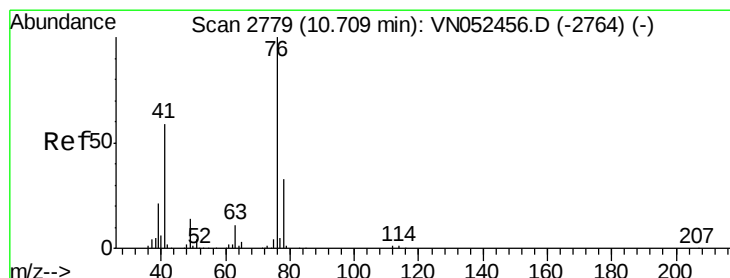
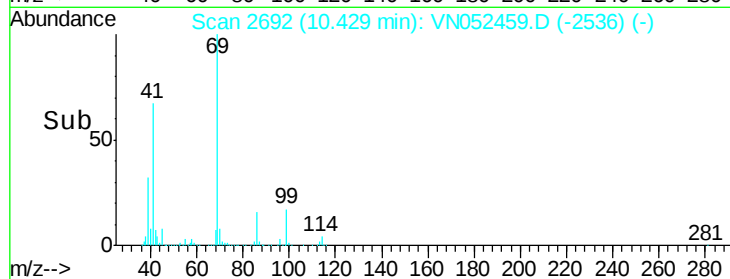
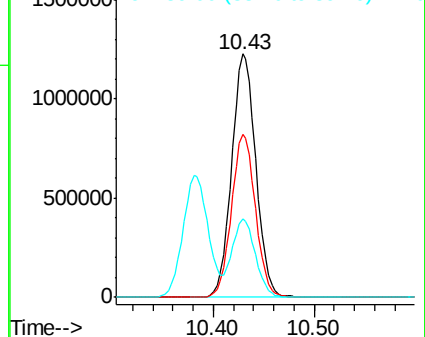
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Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#52

1,3-Dichloropropane

Concen: 153.21 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052459.D

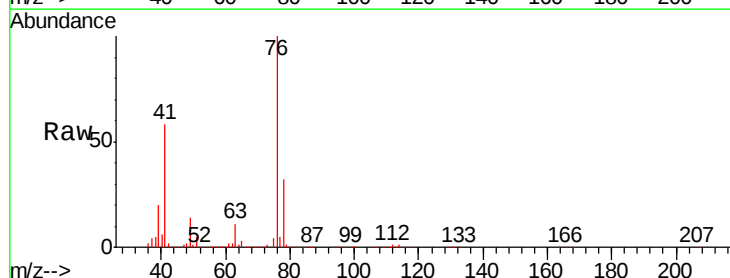
Acq: 26 Nov 2018 14:40

Tgt Ion: 76 Resp: 2666112

Ion Ratio Lower Upper

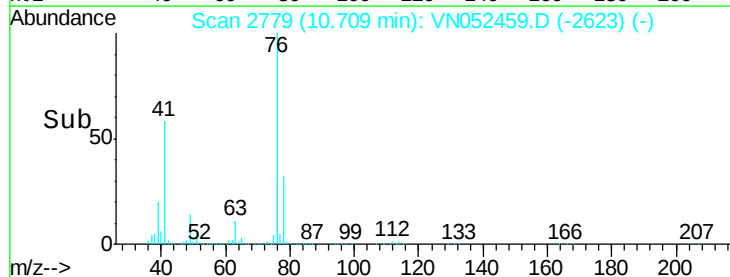
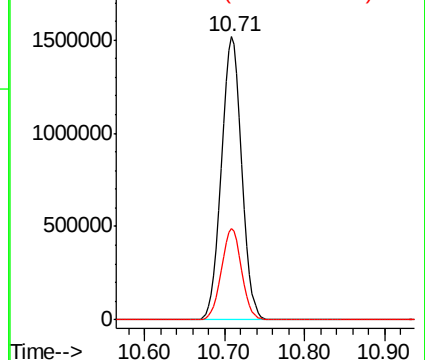
76 100

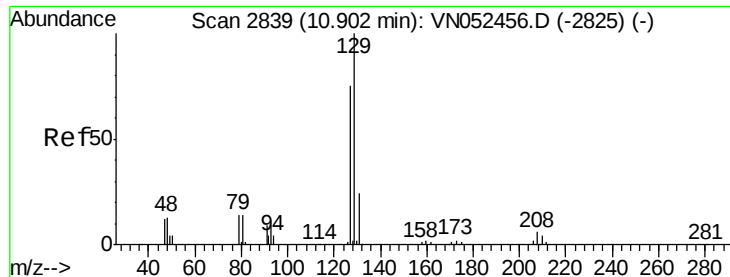
78 32.1 0.0 64.8



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#53

Dibromochloromethane

Concen: 159.16 ug/l

RT: 10.90 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:129 Resp: 1713117

Ion Ratio Lower Upper

129 100

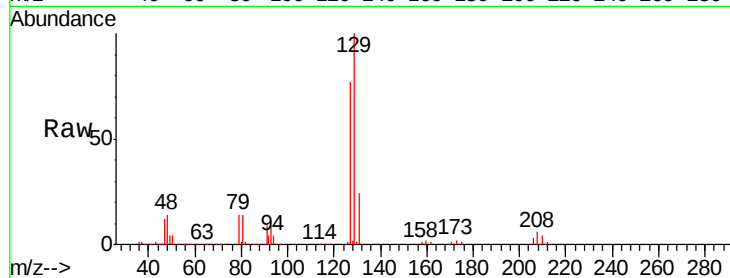
127 77.5 37.6 112.8

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

1000000

800000

600000

400000

200000

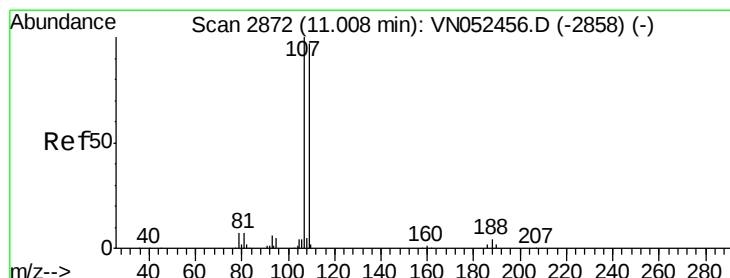
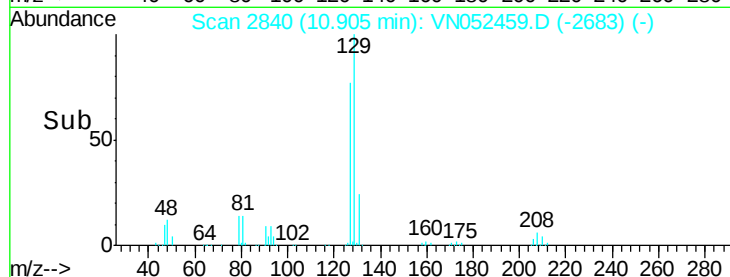
0

10.80

10.90

11.00

Time-->



#54

1,2-Dibromoethane

Concen: 159.96 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052459.D

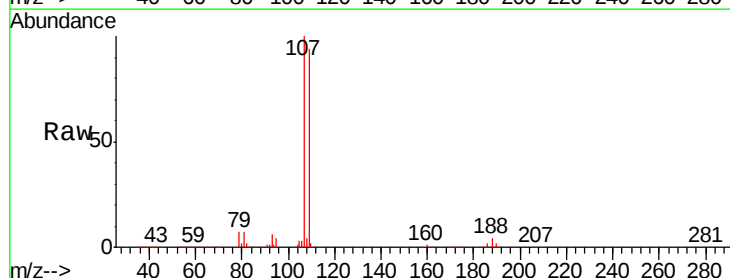
Acq: 26 Nov 2018 14:40

Tgt Ion:107 Resp: 1528126

Ion Ratio Lower Upper

107 100

109 94.1 77.1 115.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

1000000

800000

600000

400000

200000

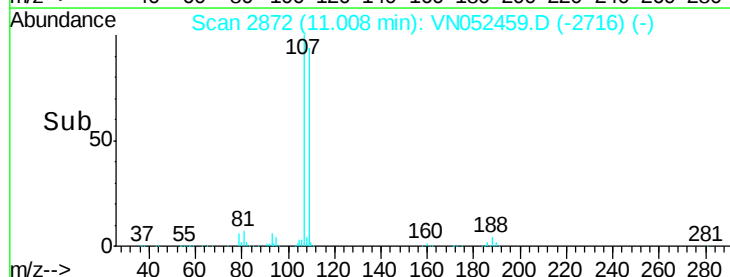
0

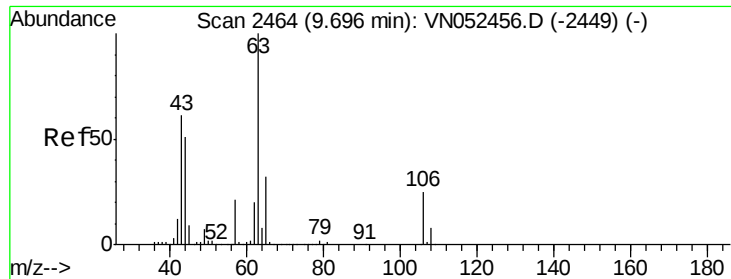
10.90

11.00

11.10

Time-->





#55

2-Chloroethyl vinyl ether

Concen: 805.58 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 5790056

Ion Ratio Lower Upper

63 100

65 32.1 25.4 38.2

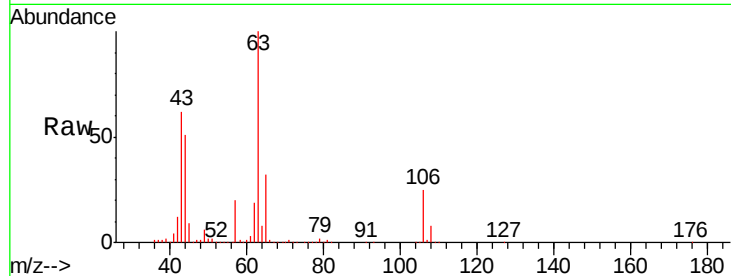
106 25.5 20.4 30.6

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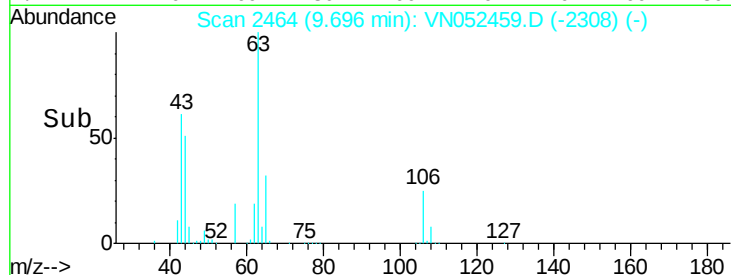


Abundance Ion 63.00 (62.70 to 63.70): VN052456.D (-2449) (-)

Ion 65.00 (64.70 to 65.70): VN052456.D (-2449) (-)

Ion 106.00 (105.70 to 106.70): VN052456.D (-2449) (-)

Time-->

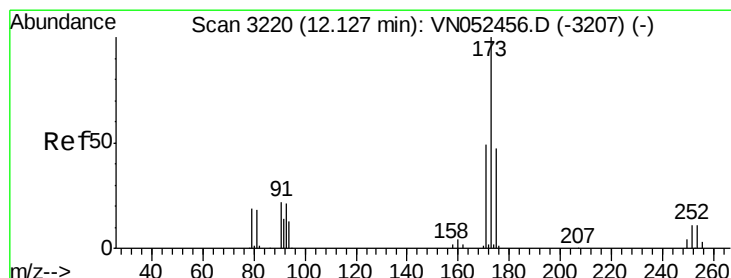


Abundance Ion 63.00 (62.70 to 63.70): VN052459.D (-2308) (-)

Ion 65.00 (64.70 to 65.70): VN052459.D (-2308) (-)

Ion 106.00 (105.70 to 106.70): VN052459.D (-2308) (-)

Time-->



#56

Bromoform

Concen: 163.11 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

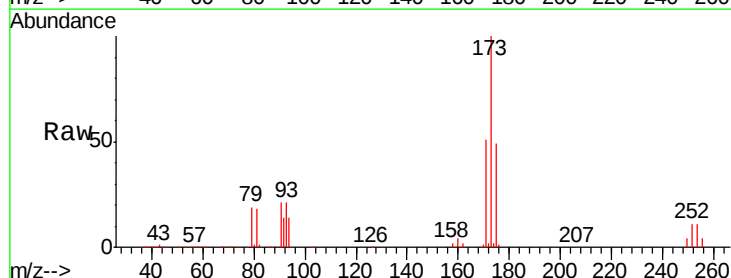
Tgt Ion: 173 Resp: 1147534

Ion Ratio Lower Upper

173 100

175 49.0 38.7 58.1

254 11.2 8.4 12.6

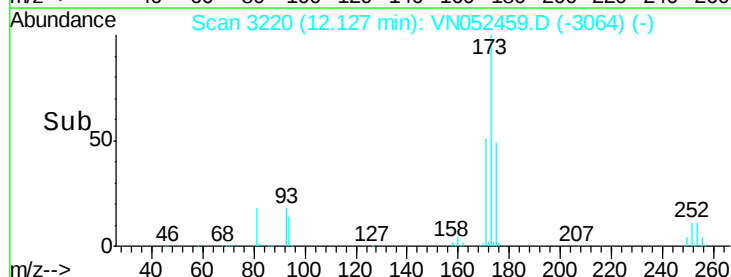


Abundance Ion 173.00 (172.70 to 173.70): VN052456.D (-3207) (-)

Ion 175.00 (174.70 to 175.70): VN052456.D (-3207) (-)

Ion 254.00 (253.70 to 254.70): VN052456.D (-3207) (-)

Time-->

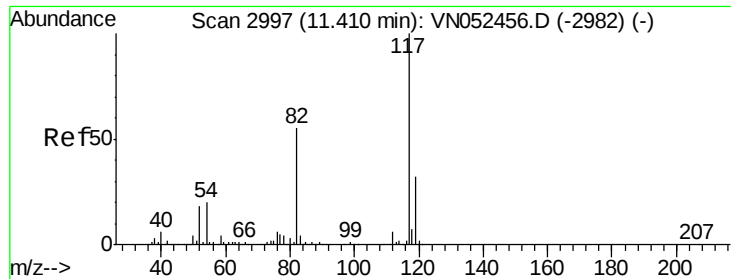


Abundance Ion 173.00 (172.70 to 173.70): VN052459.D (-3064) (-)

Ion 175.00 (174.70 to 175.70): VN052459.D (-3064) (-)

Ion 254.00 (253.70 to 254.70): VN052459.D (-3064) (-)

Time-->



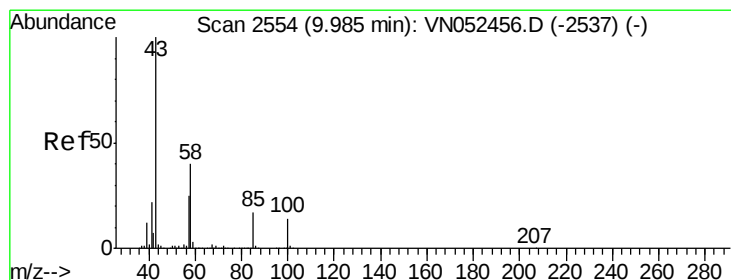
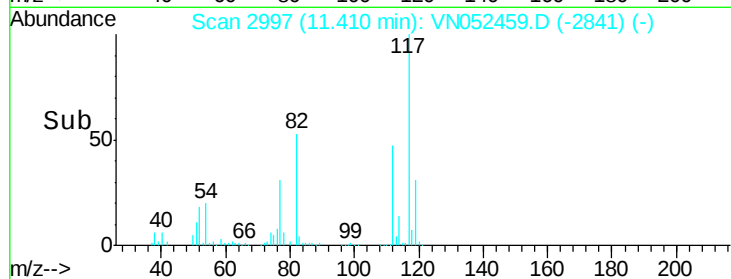
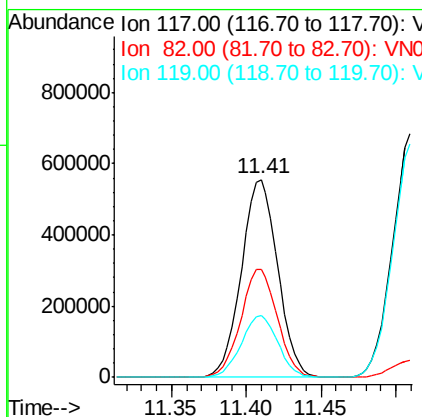
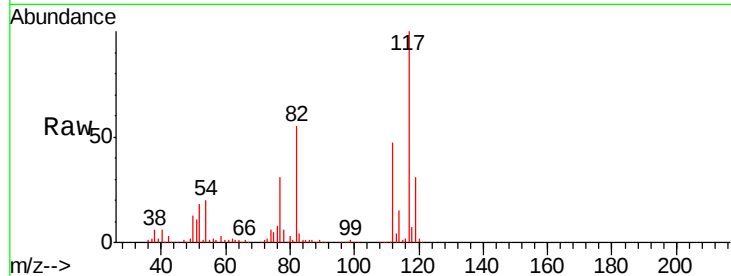
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.8	44.2	66.2
119	31.6	25.4	38.2

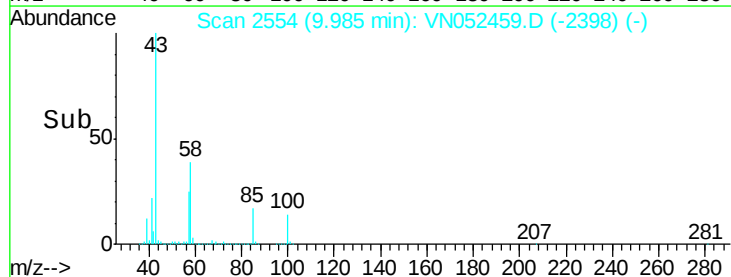
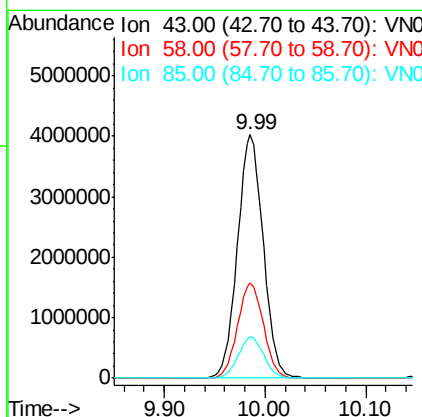
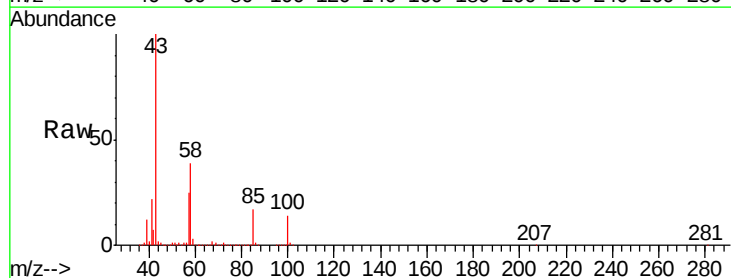
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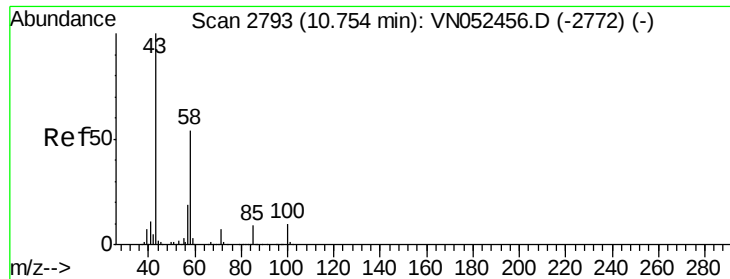
MMDadoda
11/27/2018 3:52:11 PM



#58
4-Methyl-2-Pentanone
Concen: 779.66 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.3	31.6	47.4
85	16.9	13.3	19.9





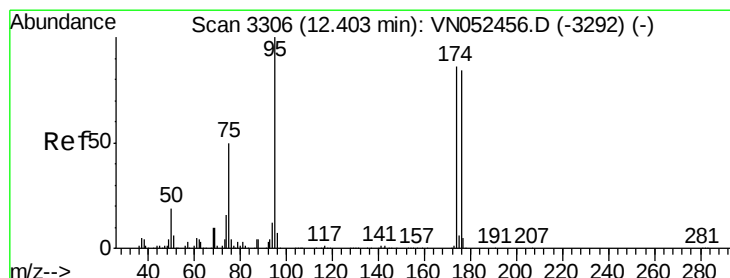
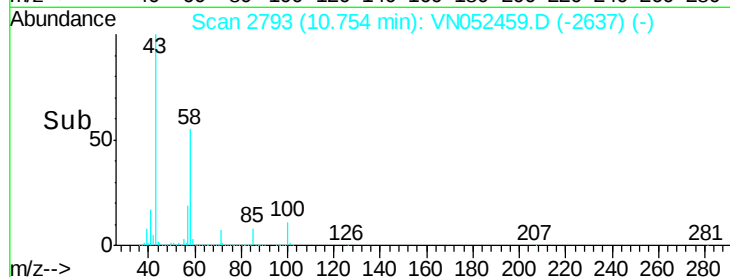
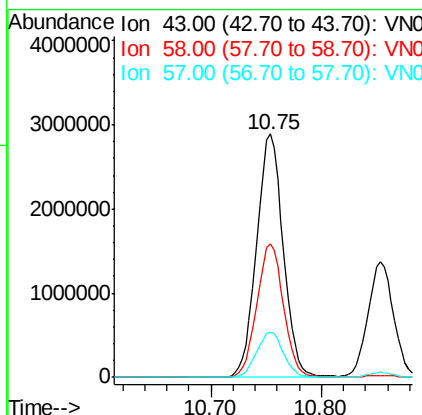
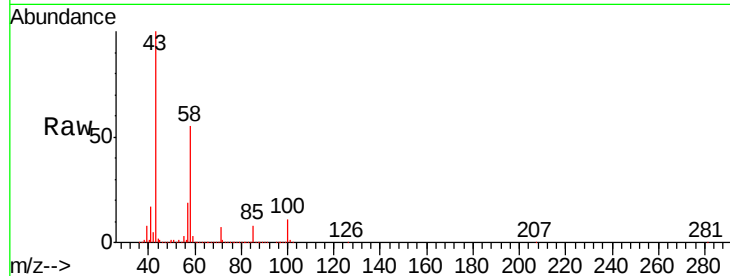
#59
2-Hexanone
Concen: 778.68 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 43 Resp: 4843488
Ion Ratio Lower Upper
43 100
58 54.9 43.2 64.8
57 18.9 14.9 22.3

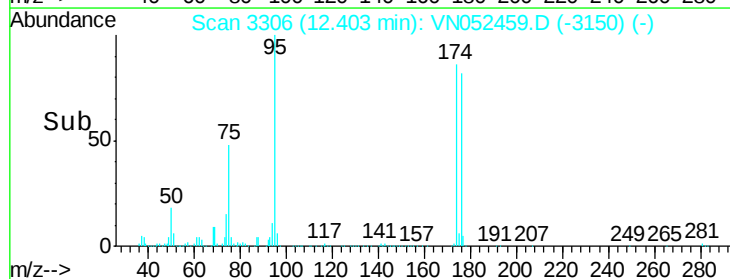
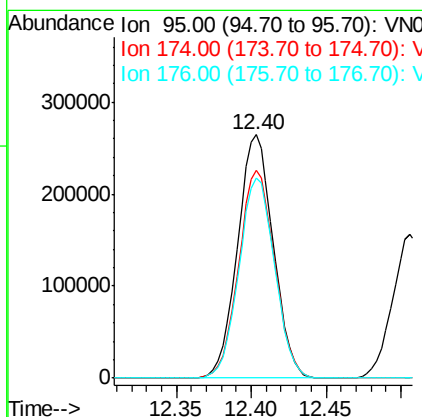
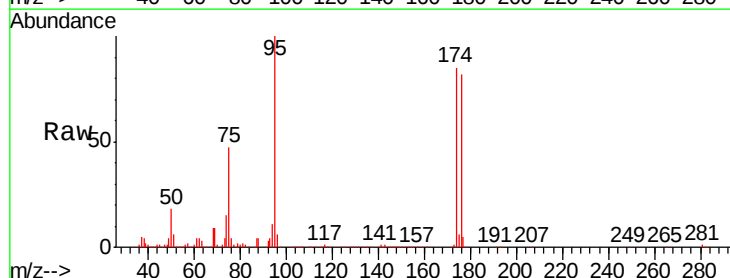
Manual Integrations
APPROVED

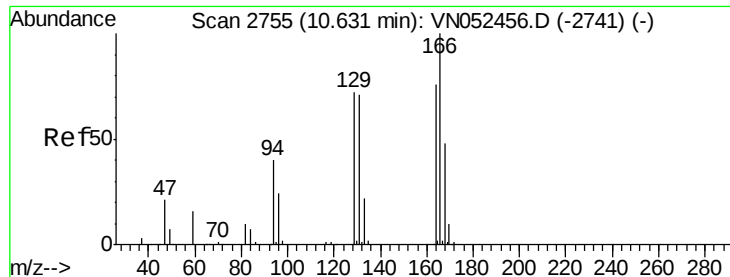
MMDadoda
11/27/2018 3:52:11 PM



#60
4-Bromofluorobenzene
Concen: 778.68 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion: 95 Resp: 438686
Ion Ratio Lower Upper
95 100
174 85.9 67.9 101.9
176 82.6 66.4 99.6





#61

Tetrachloroethene

Concen: 144.40 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:164 Resp: 1670340

Ion Ratio Lower Upper

164 100

166 129.0 104.6 157.0

129 93.9 75.3 112.9

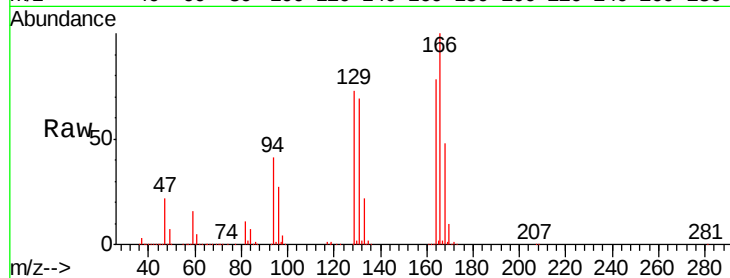
131 89.1 74.3 111.5

Manual Integrations

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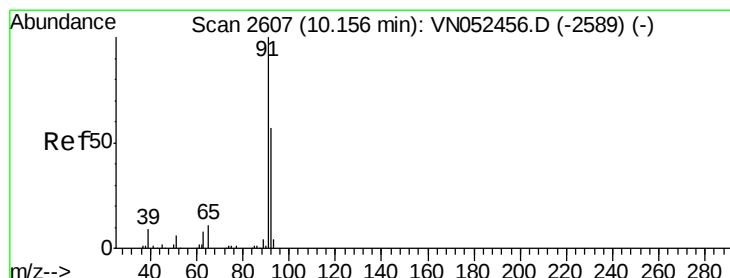
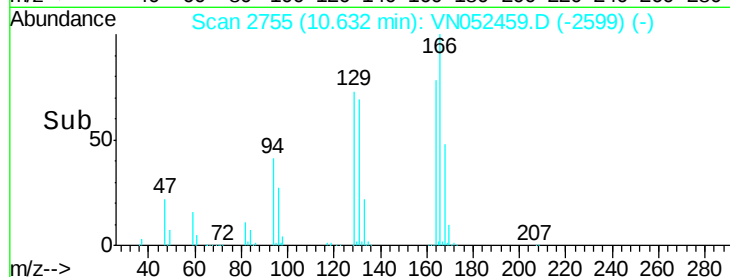
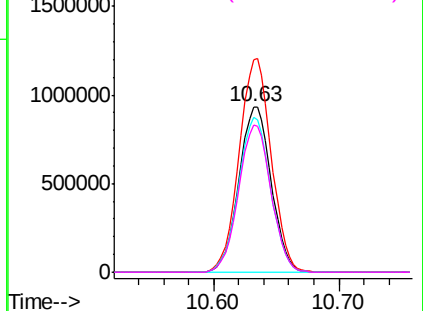


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 148.58 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052459.D

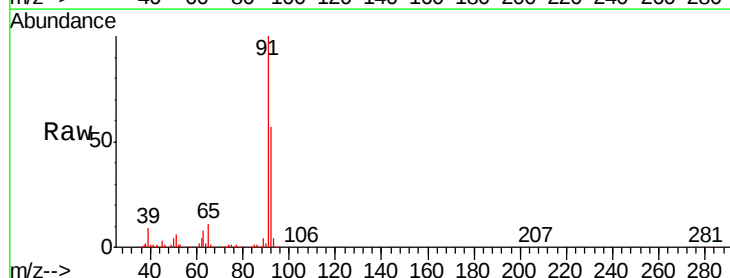
Acq: 26 Nov 2018 14:40

Tgt Ion: 91 Resp: 7693108

Ion Ratio Lower Upper

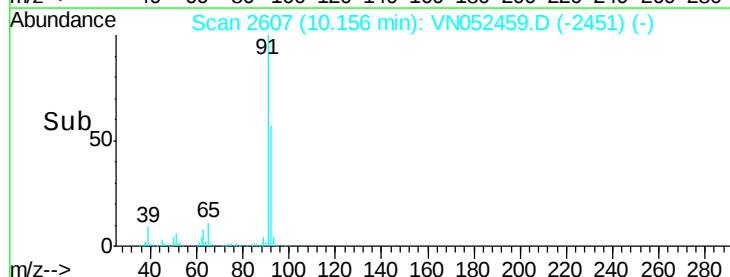
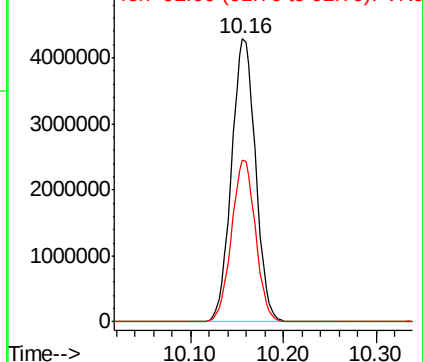
91 100

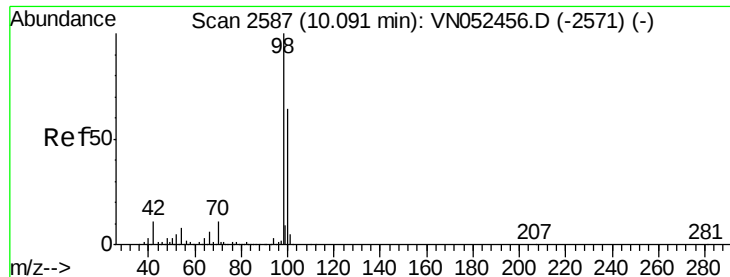
92 57.0 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 148.58 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 98 Resp: 1278105

Ion Ratio Lower Upper

98 100

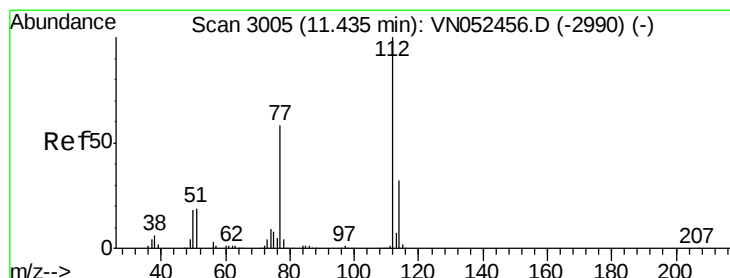
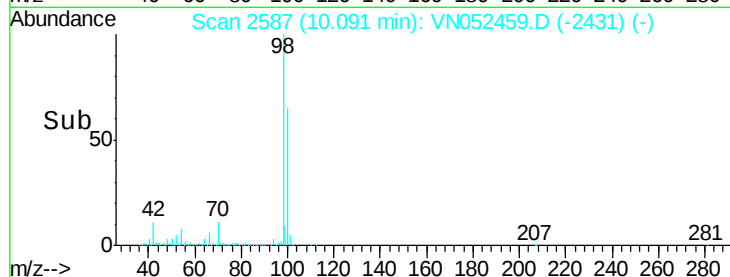
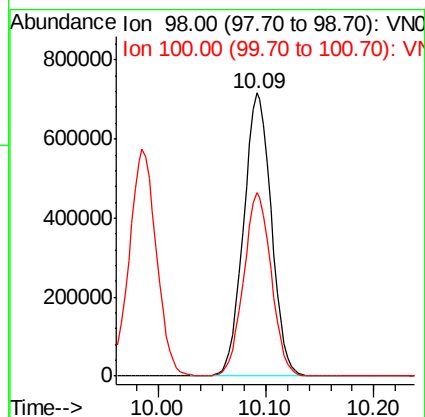
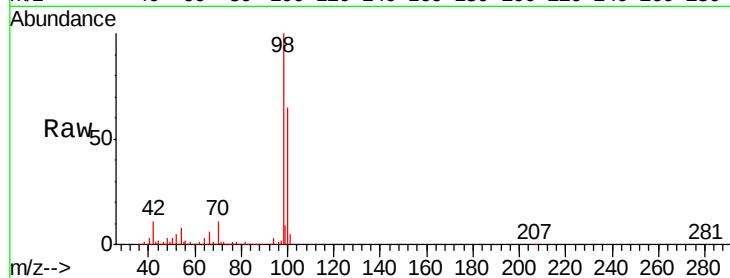
100 64.3 51.1 76.7

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#64

Chlorobenzene

Concen: 150.90 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN052459.D

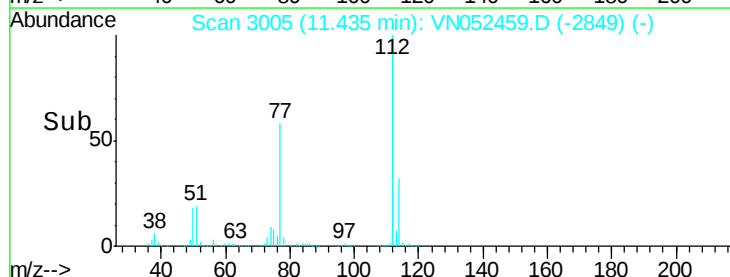
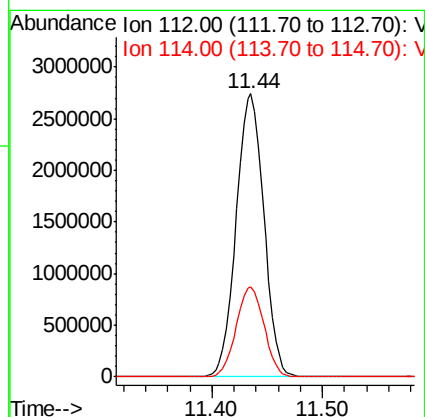
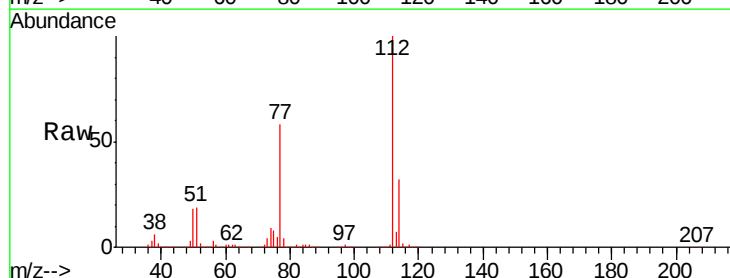
Acq: 26 Nov 2018 14:40

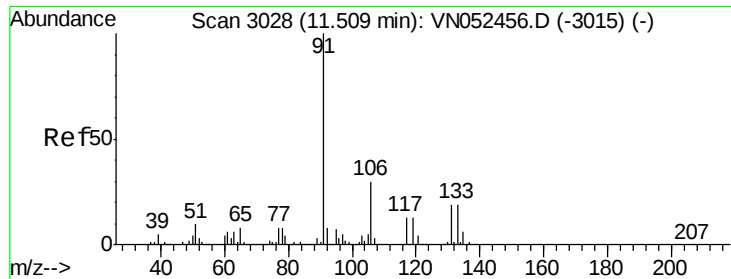
Tgt Ion: 112 Resp: 4768887

Ion Ratio Lower Upper

112 100

114 32.0 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 153.63 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 131 Resp: 1685271

Ion Ratio Lower Upper

131 100

133 95.0 0.0 193.4

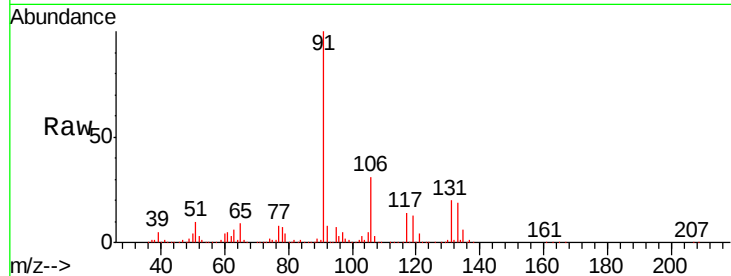
119 66.8 0.0 133.0

Manual Integrations

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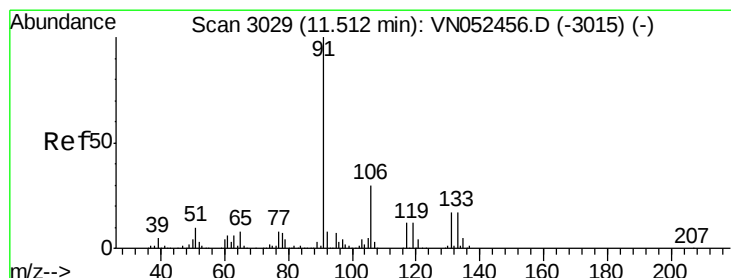
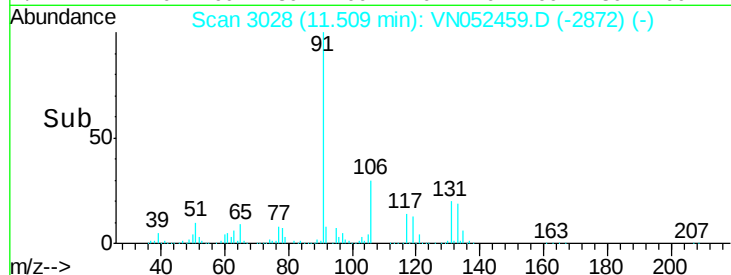
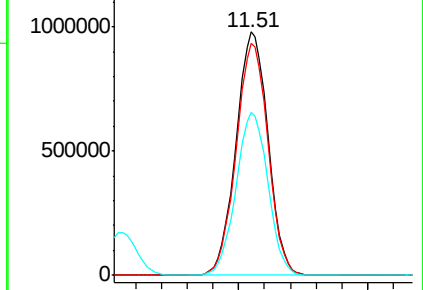
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Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 152.62 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN052459.D

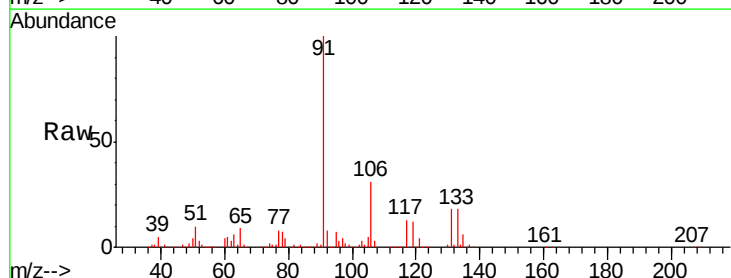
Acq: 26 Nov 2018 14:40

Tgt Ion: 91 Resp: 8516520

Ion Ratio Lower Upper

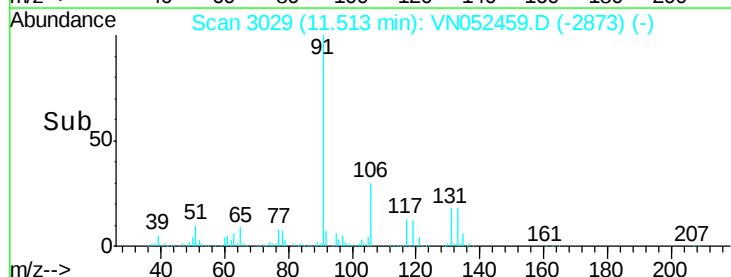
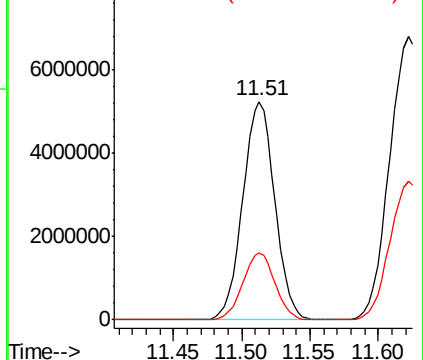
91 100

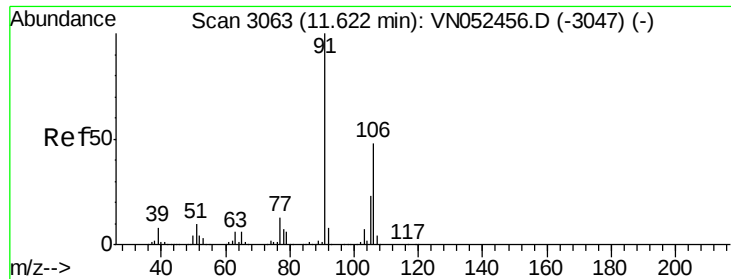
106 30.8 24.3 36.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





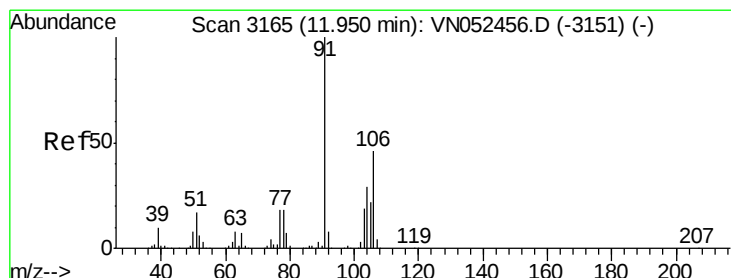
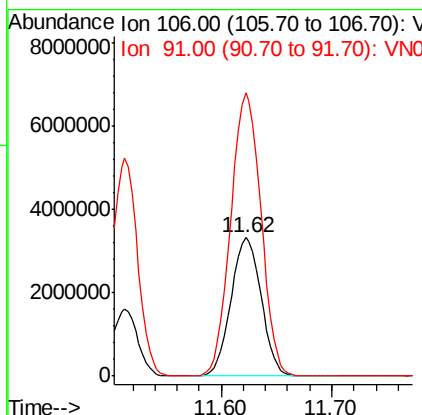
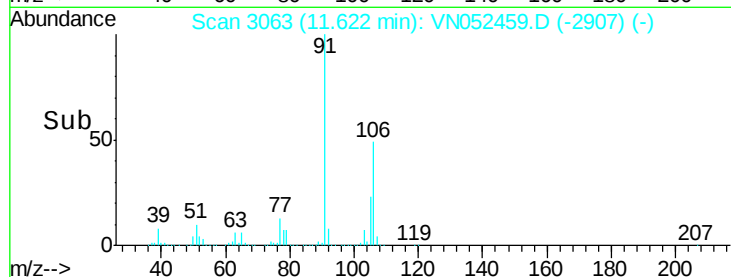
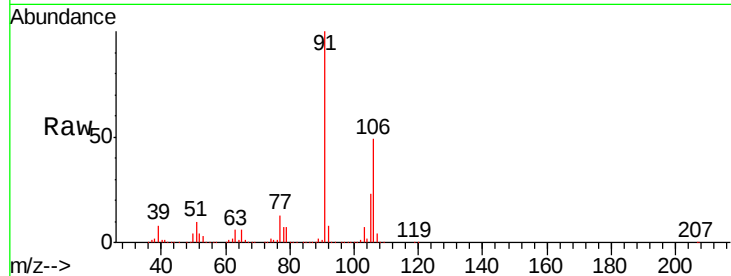
#67
m/p-Xylenes
Concen: 303.39 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:106 Resp: 6307484
Ion Ratio Lower Upper
106 100
91 205.1 163.9 245.9

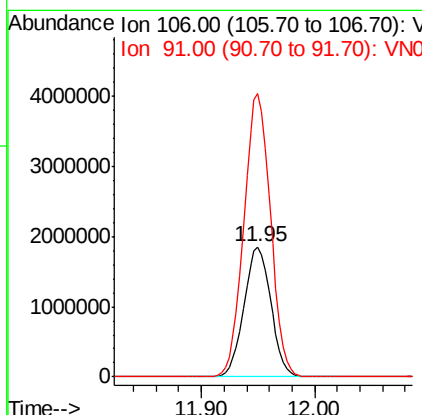
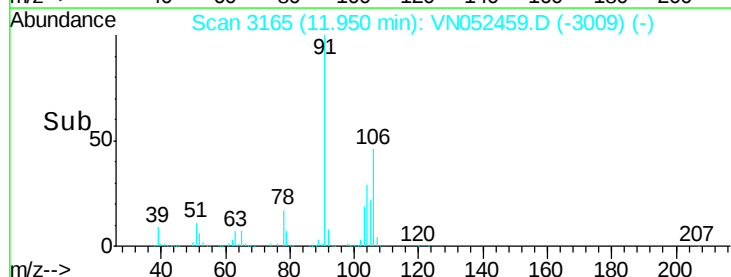
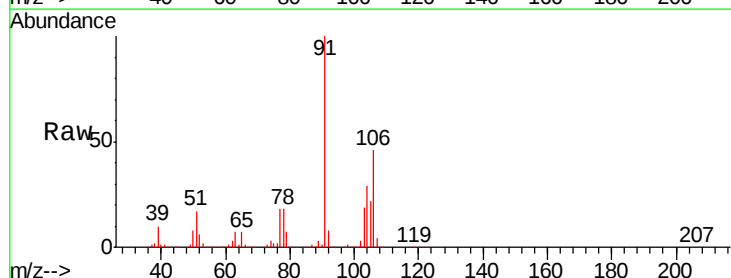
Manual Integrations
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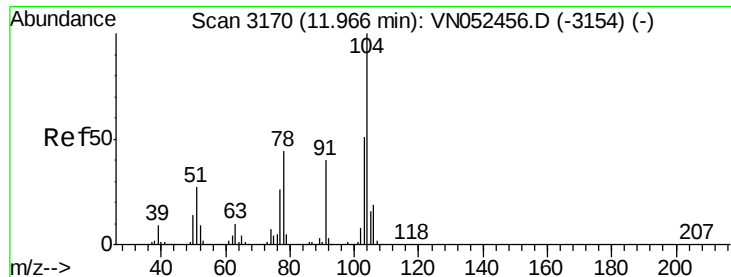
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#68
o-Xylene
Concen: 151.88 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion:106 Resp: 3064759
Ion Ratio Lower Upper
106 100
91 216.5 107.8 323.4





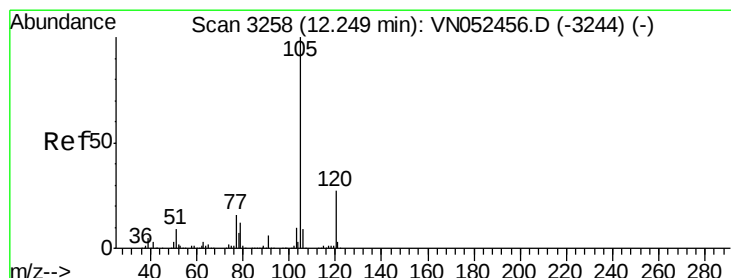
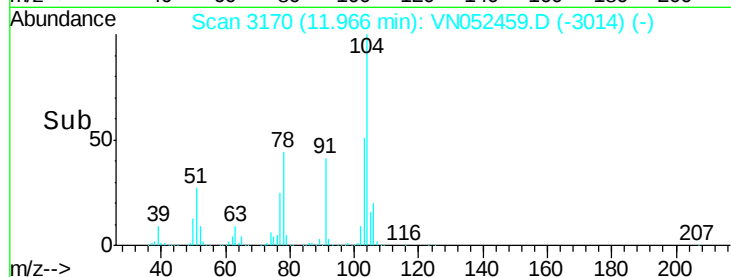
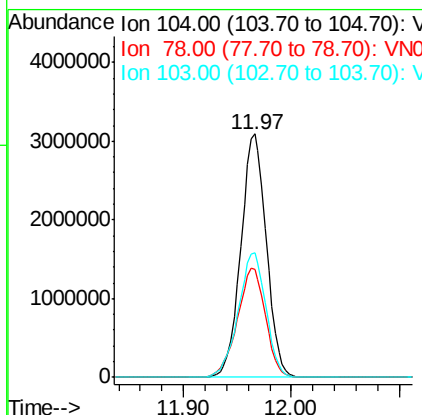
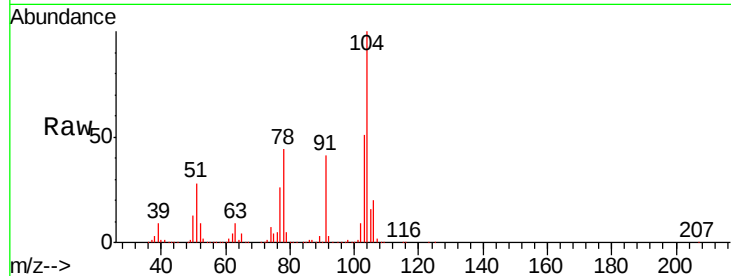
#69
Styrene
Concen: 155.85 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.5	39.3	58.9
103	55.6	44.6	66.8

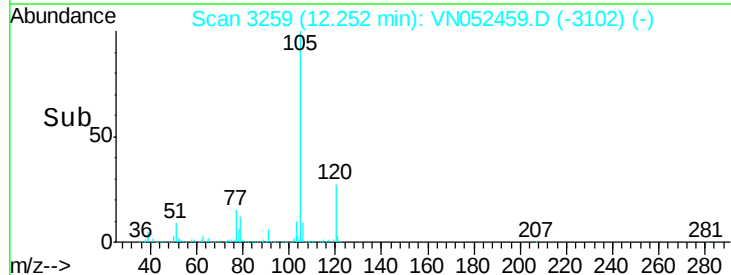
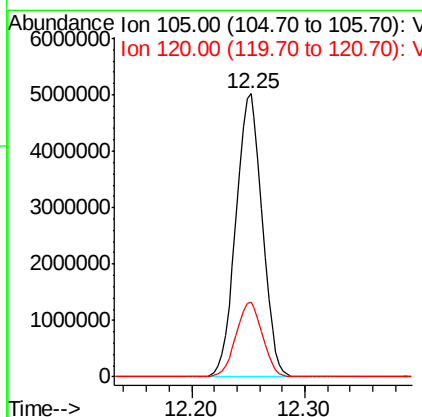
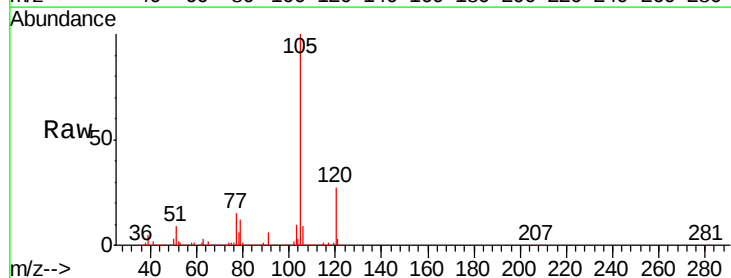
Manual Integrations
APPROVED

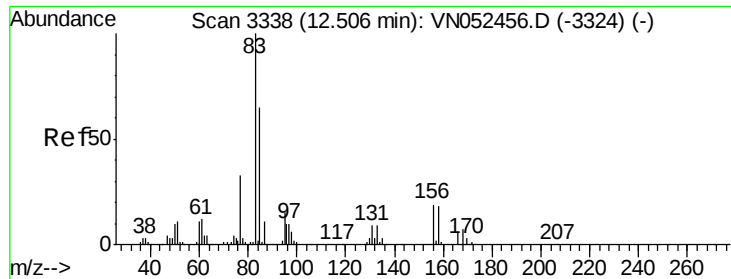
MMDadoda
11/27/2018 3:52:11 PM



#70
Isopropylbenzene
Concen: 151.57 ug/l
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.5	18.6	34.6





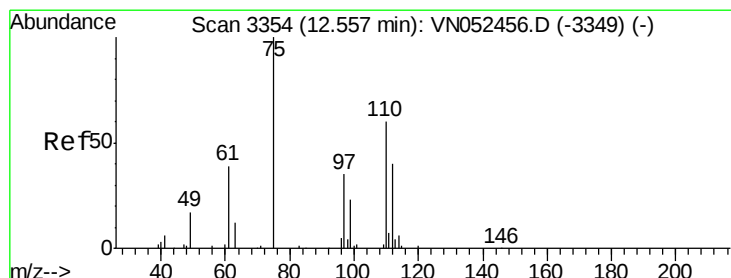
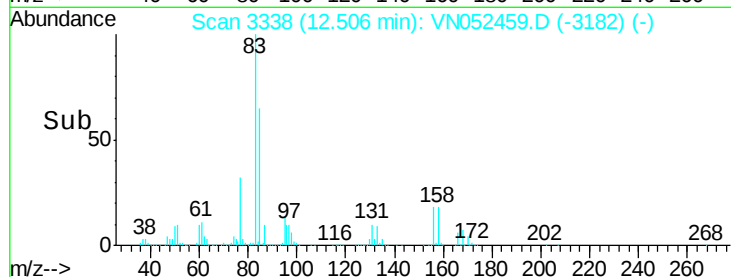
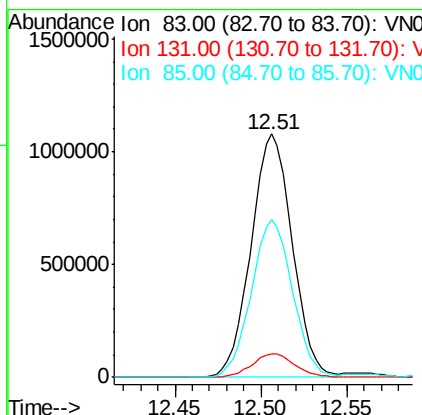
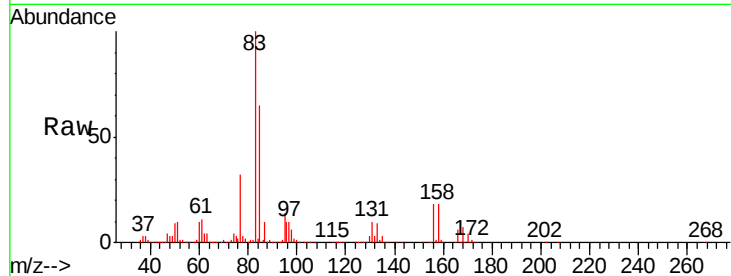
#71
 1,1,2,2-Tetrachloroethane
 Concen: 153.45 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.9	14.6
85	64.5	32.2	96.6

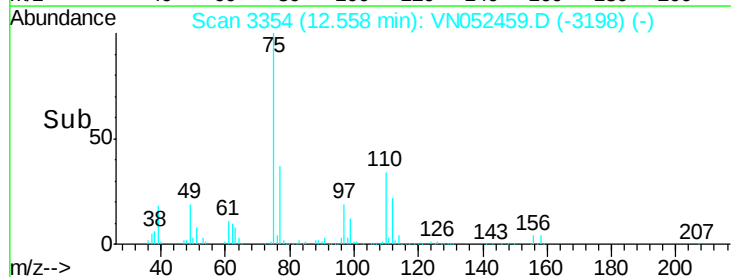
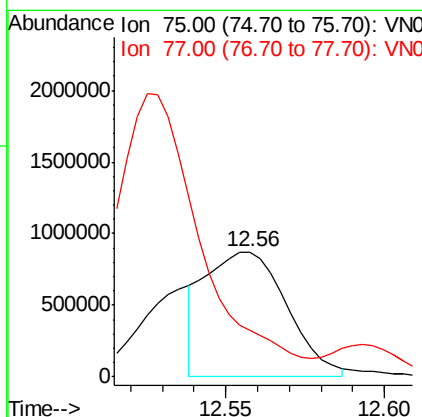
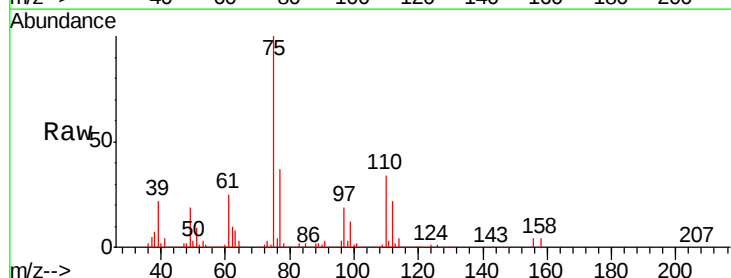
Manual Integrations
 APPROVED

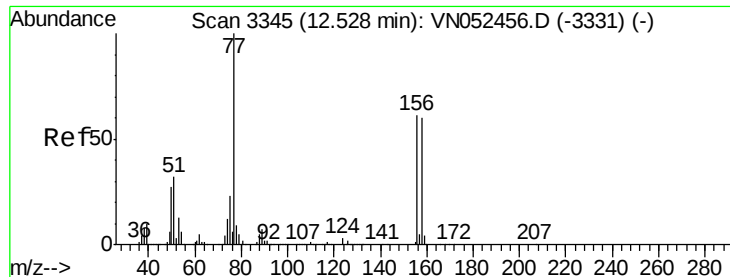
MMDadoda
 11/27/2018 3:52:11 PM



#72
 1,2,3-Trichloropropane
 Concen: 160.12 ug/l m
 RT: 12.56 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Tgt Ion	Ratio	Lower	Upper
75	100		
77	244.0	0.0	514.8





#73

Bromobenzene

Concen: 154.33 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:156 Resp: 2003983

Ion Ratio Lower Upper

156 100

77 190.2 0.0 382.6

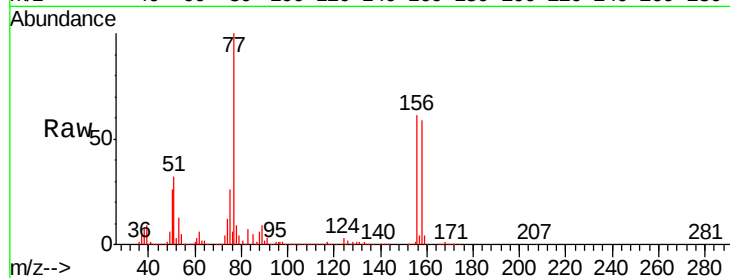
158 97.0 0.0 196.8

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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V

2500000

2000000

1500000

1000000

500000

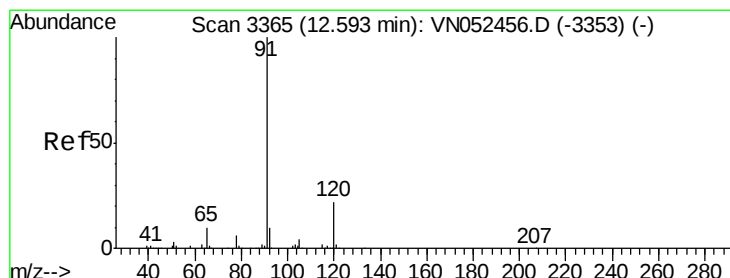
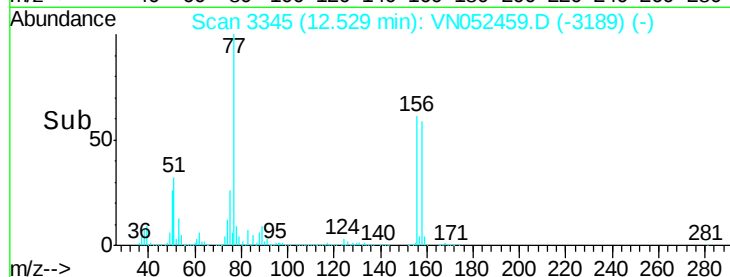
0

12.50

12.53

12.60

Time-->



#74

n-propylbenzene

Concen: 153.38 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN052459.D

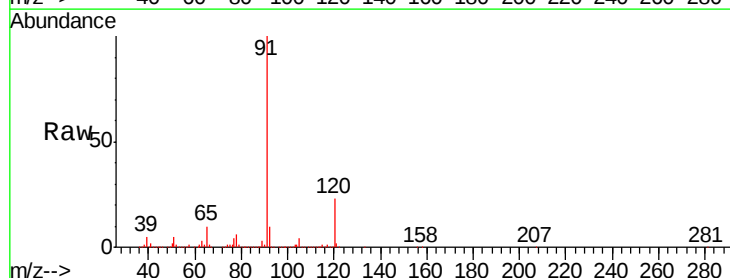
Acq: 26 Nov 2018 14:40

Tgt Ion: 91 Resp: 9594826

Ion Ratio Lower Upper

91 100

120 22.5 0.0 44.6



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V

6000000

4000000

2000000

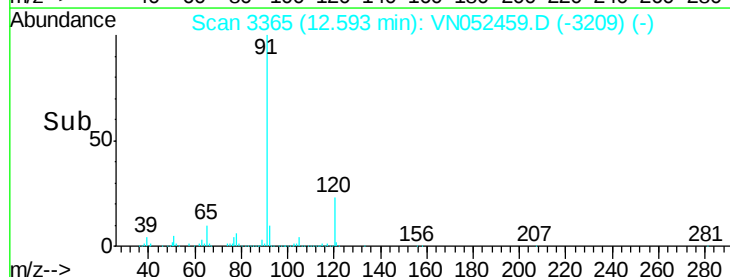
0

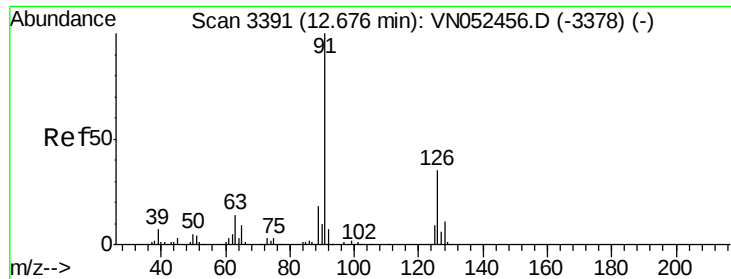
12.55

12.59

12.65

Time-->





#75

2-Chlorotoluene

Concen: 152.07 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 5521591

Ion Ratio Lower Upper

91 100

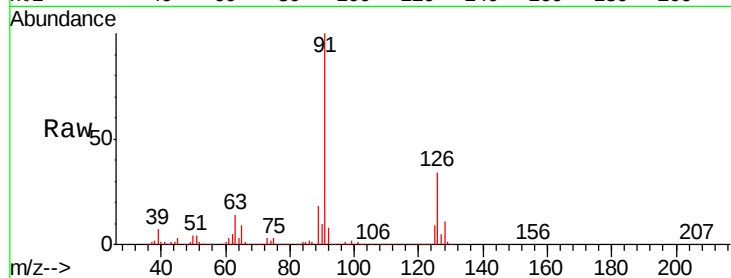
126 33.9 0.0 68.4

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN052456.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN052456.D (-3378) (-)

6000000

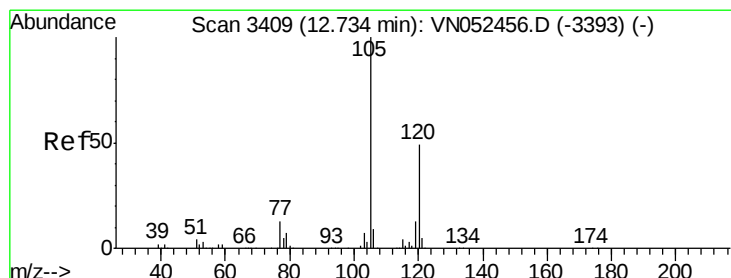
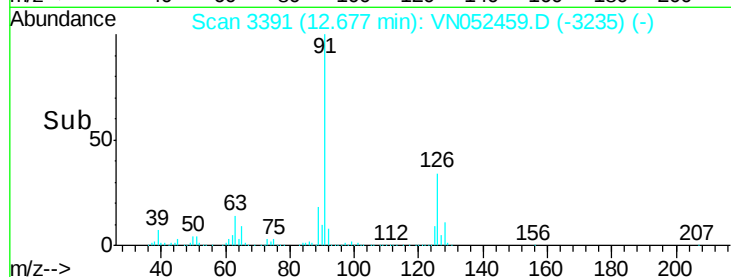
4000000

2000000

0

12.68

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 151.84 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052459.D

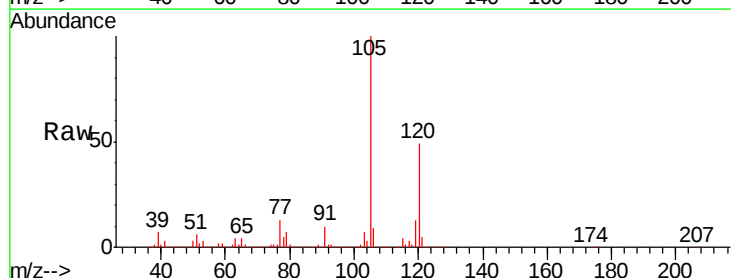
Acq: 26 Nov 2018 14:40

Tgt Ion: 105 Resp: 6584743

Ion Ratio Lower Upper

105 100

120 48.9 0.0 97.4



Abundance Ion 105.00 (104.70 to 105.70): VN052456.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN052456.D (-3393) (-)

4000000

3000000

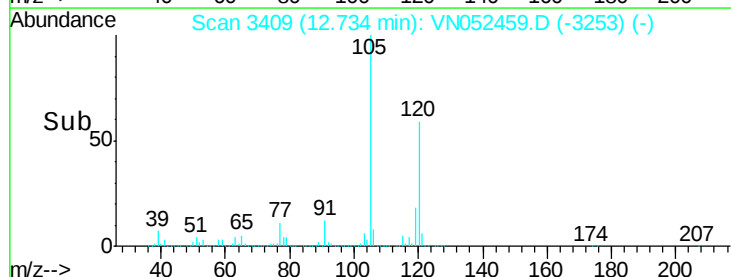
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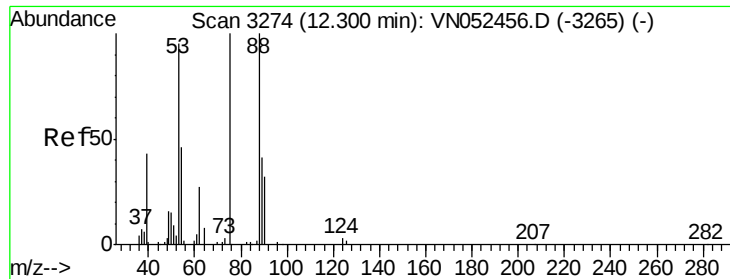
1000000

0

12.73

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 174.77 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 553507
Ion Ratio Lower Upper

75 100

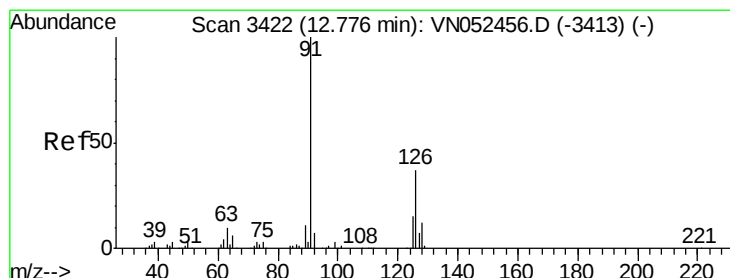
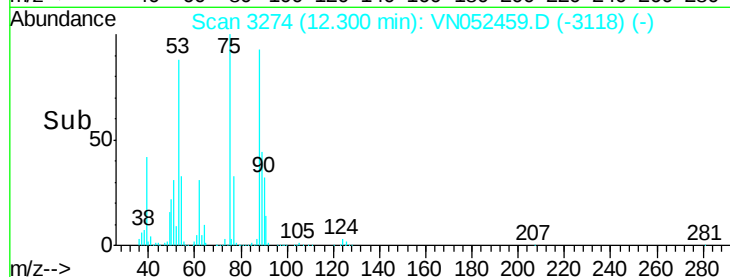
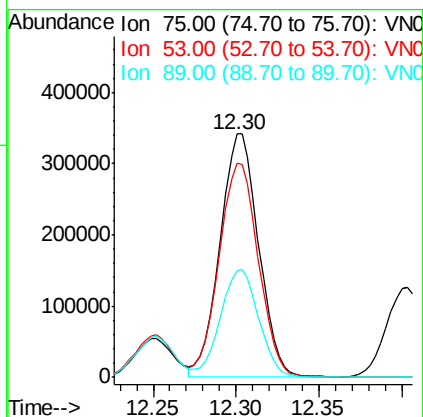
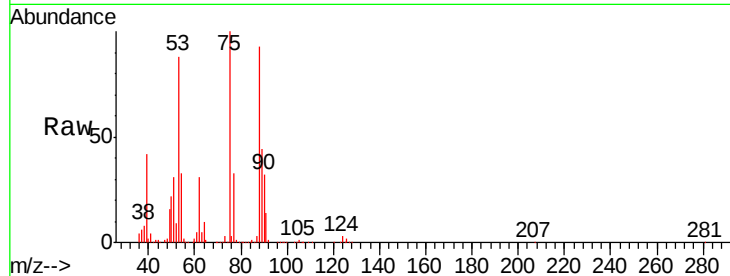
53 88.0 48.5 145.6

89 44.0 21.7 65.1

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#78

4-Chlorotoluene

Concen: 155.40 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

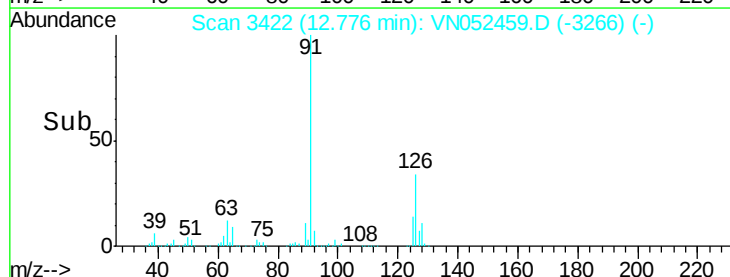
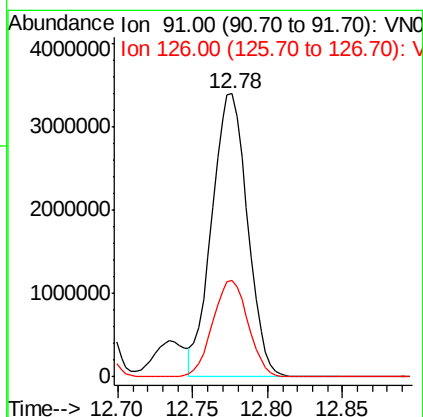
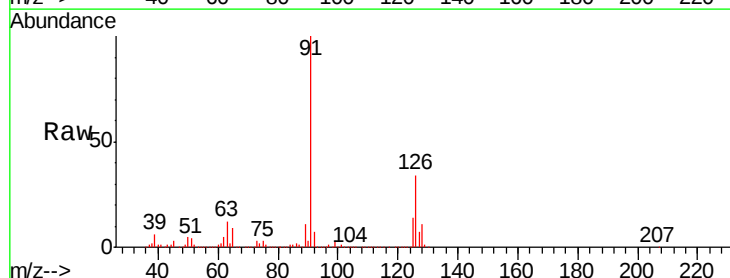
Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Tgt Ion: 91 Resp: 5634769
Ion Ratio Lower Upper

91 100

126 34.0 0.0 68.2





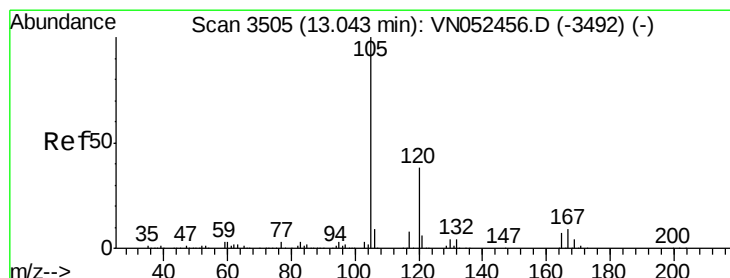
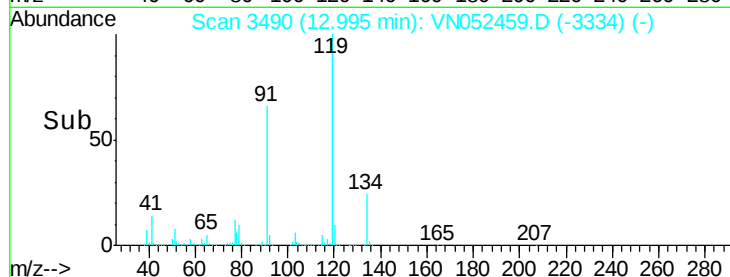
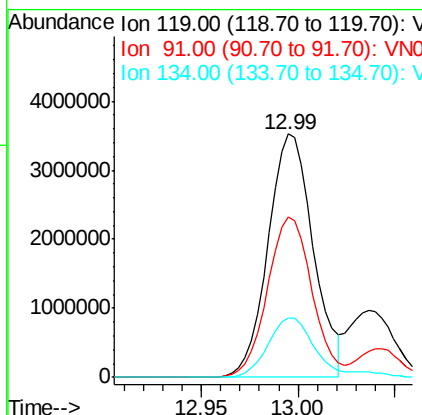
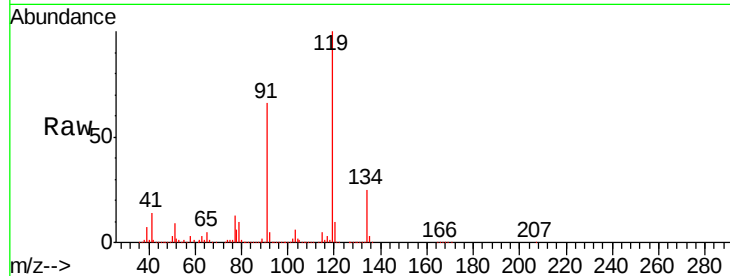
#79
tert-butylbenzene
Concen: 151.68 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:119 Resp: 5728165
Ion Ratio Lower Upper
119 100
91 64.8 0.0 129.8
134 24.7 0.0 52.2

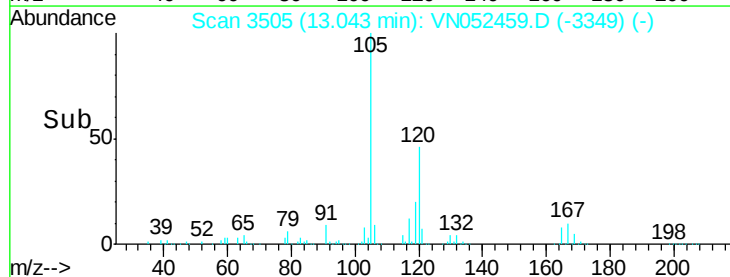
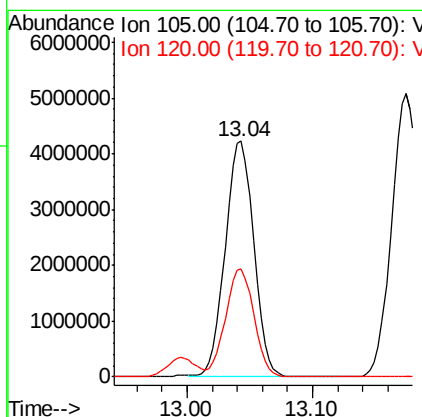
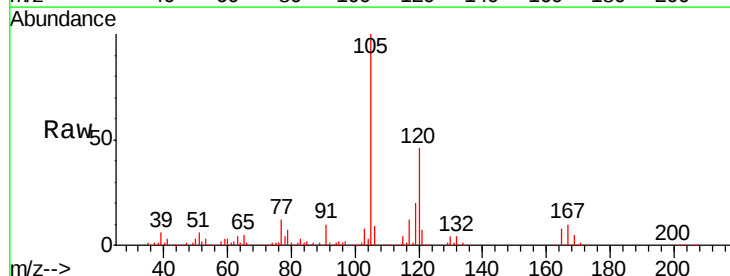
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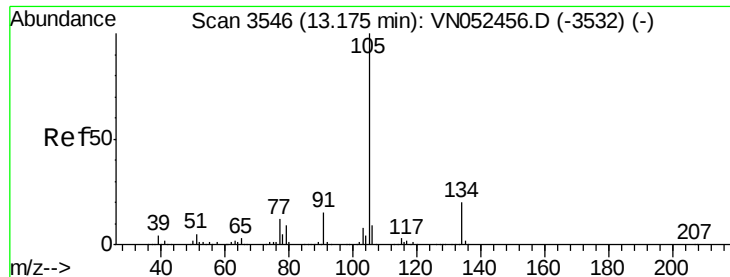
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 154.18 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion:105 Resp: 6690202
Ion Ratio Lower Upper
105 100
120 45.5 0.0 91.0





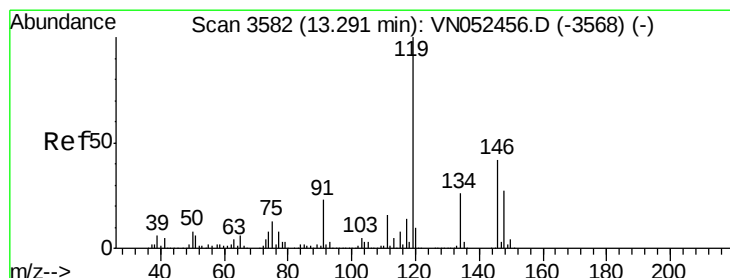
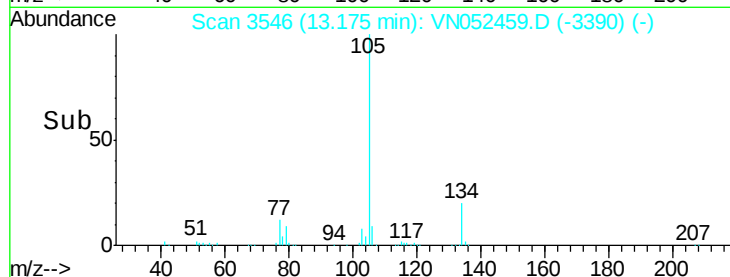
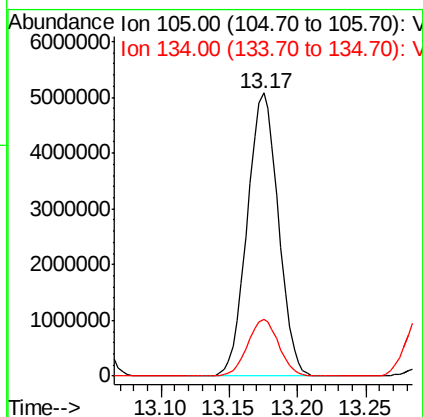
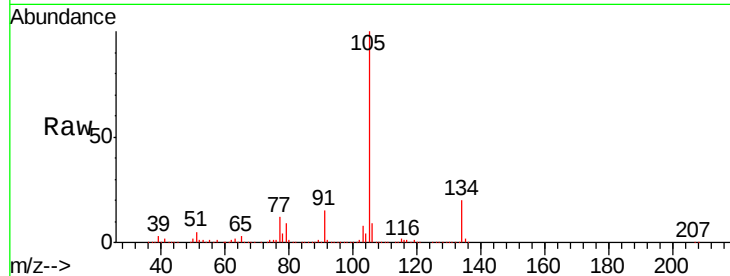
#81
 sec-Butylbenzene
 Concen: 152.62 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion:105 Resp: 8028388
 Ion Ratio Lower Upper
 105 100
 134 20.0 0.0 40.4

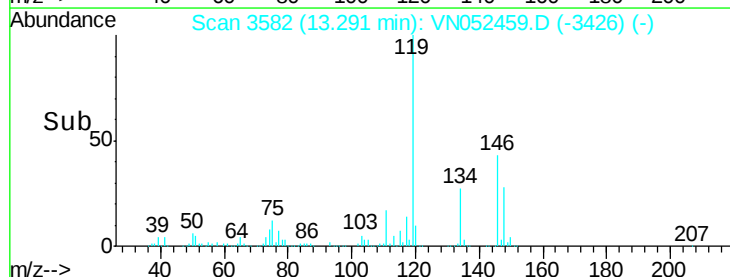
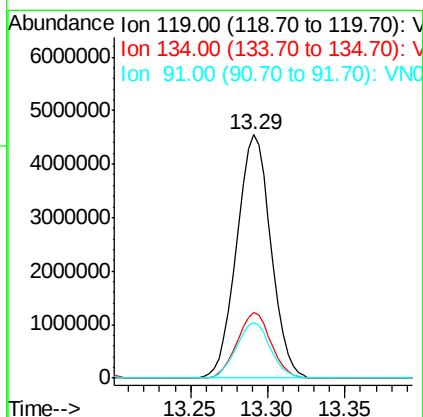
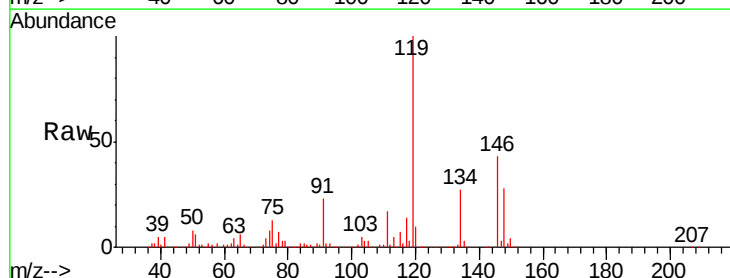
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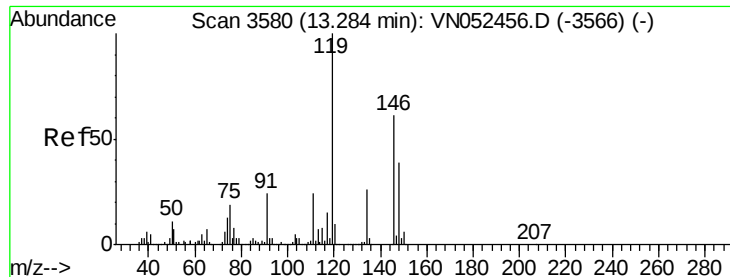
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#82
 p-Isopropyltoluene
 Concen: 155.63 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Tgt Ion:119 Resp: 6970909
 Ion Ratio Lower Upper
 119 100
 134 26.6 0.0 52.6
 91 22.7 0.0 46.2





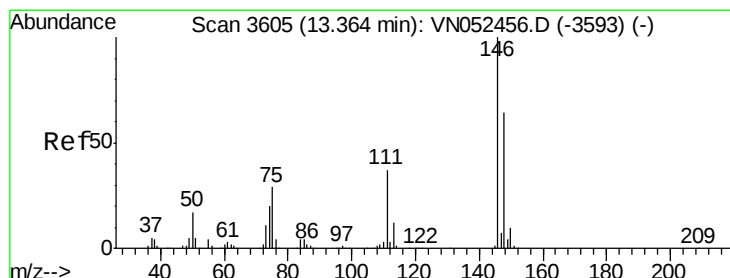
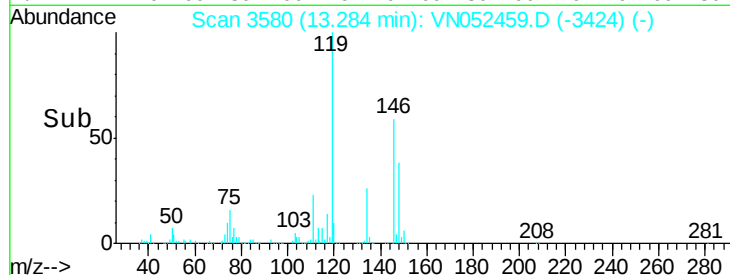
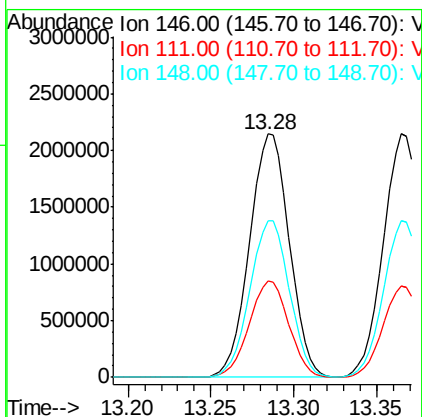
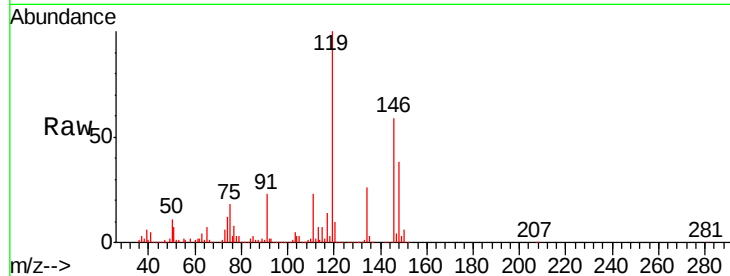
#83
1,3-Dichlorobenzene
Concen: 156.48 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:146 Resp: 3573612
Ion Ratio Lower Upper
146 100
111 39.2 19.7 59.0
148 64.2 32.3 96.8

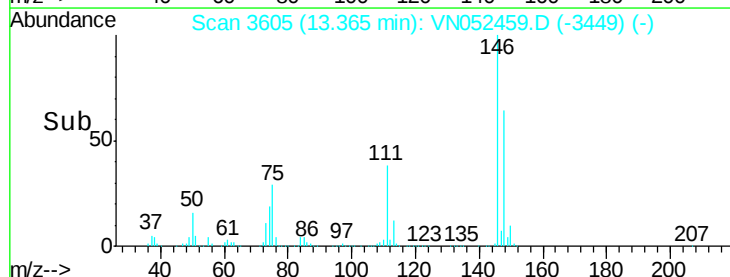
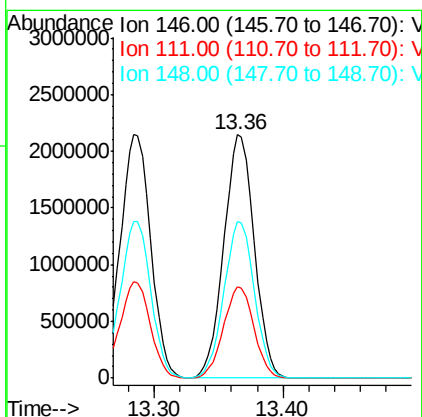
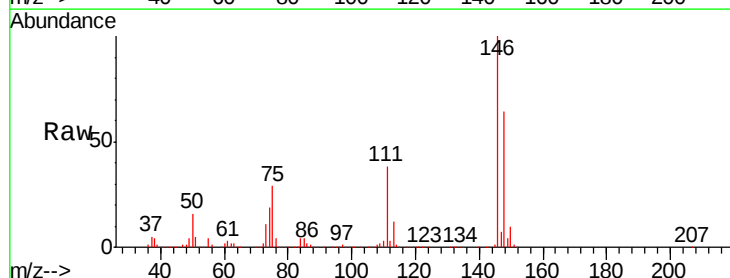
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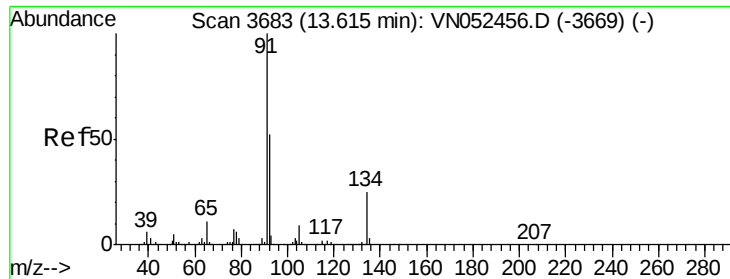
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#84
1,4-Dichlorobenzene
Concen: 158.97 ug/l
RT: 13.36 min Scan# 3605
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion:146 Resp: 3507644
Ion Ratio Lower Upper
146 100
111 37.5 18.8 56.3
148 64.2 32.5 97.4





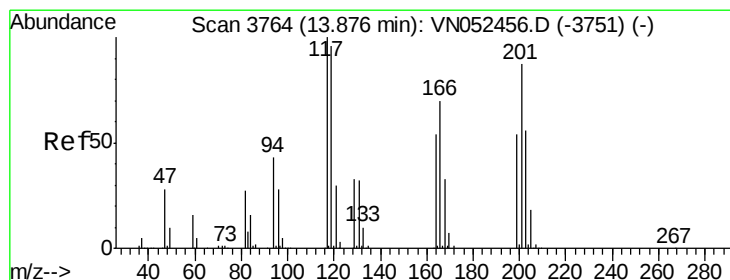
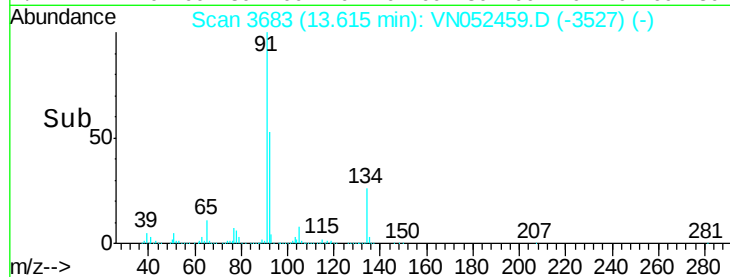
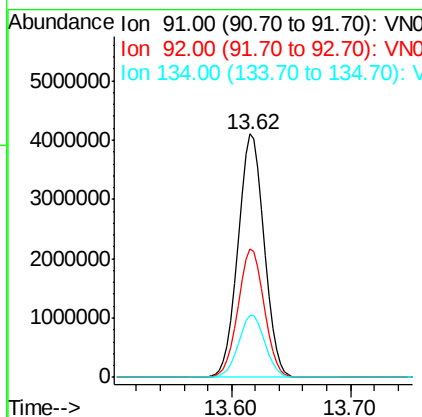
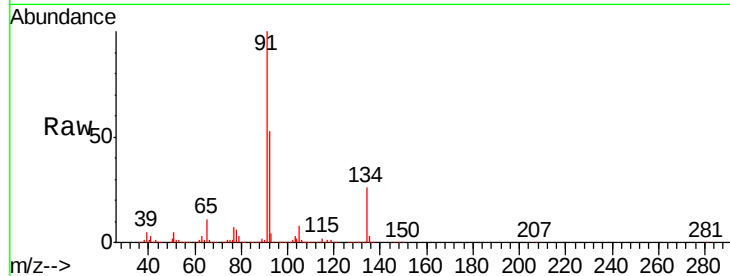
#85
n-Butylbenzene
Concen: 162.24 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 91 Resp: 6242131
Ion Ratio Lower Upper
91 100
92 52.6 0.0 104.2
134 25.7 0.0 50.6

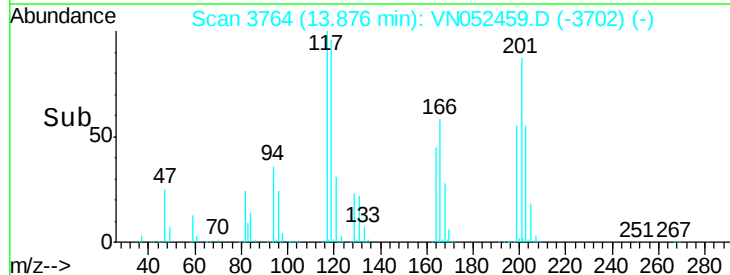
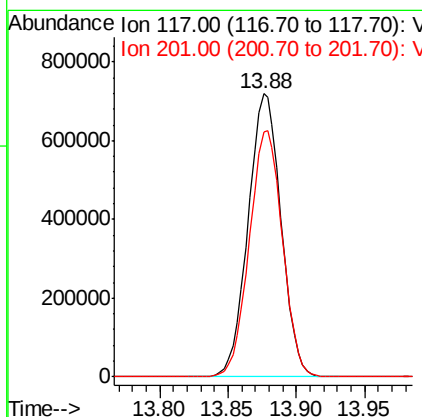
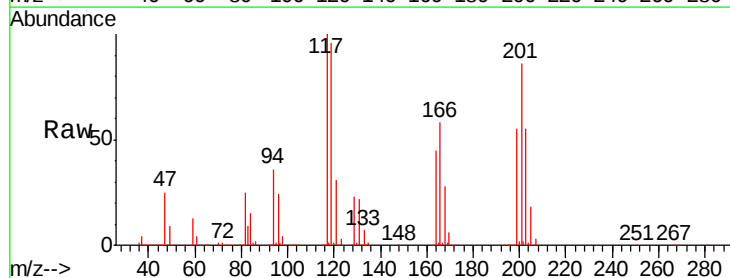
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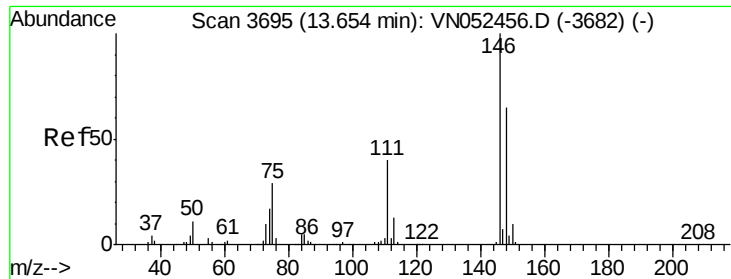
MMDadoda
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#86
Hexachloroethane
Concen: 158.61 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion: 117 Resp: 1203732
Ion Ratio Lower Upper
117 100
201 87.6 43.8 131.3





#87

1,2-Dichlorobenzene

Concen: 153.17 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 3328826

Ion Ratio Lower Upper

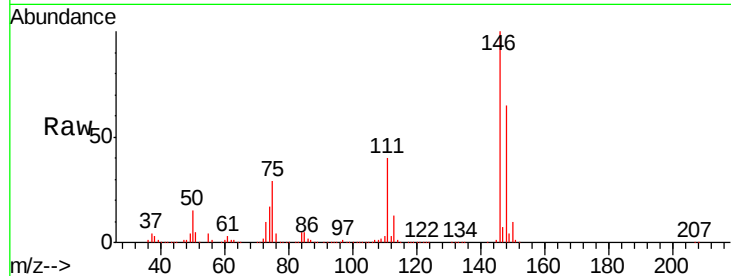
146 100

111 40.3 20.3 60.8

148 64.0 32.1 96.5

Manual Integrations
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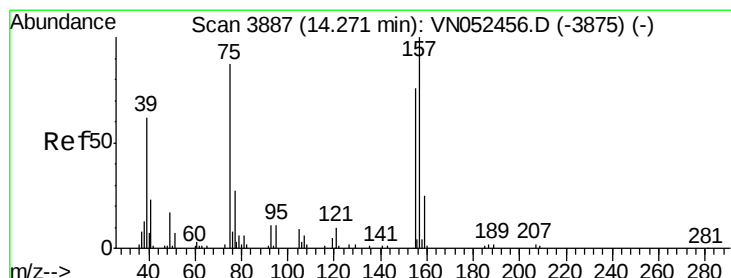
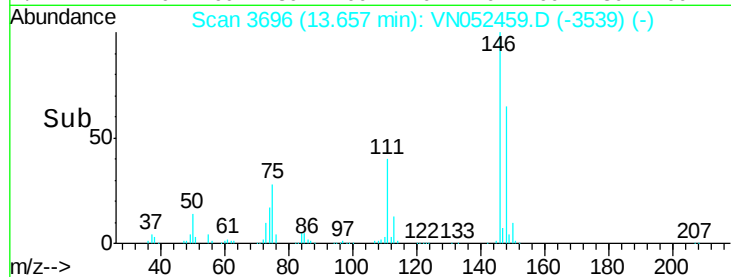
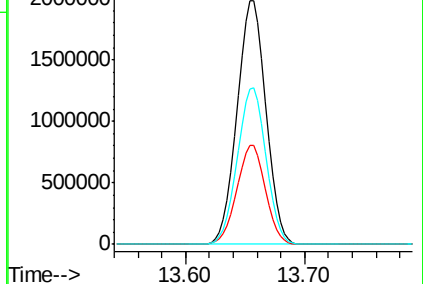
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 166.59 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN052459.D

Acq: 26 Nov 2018 14:40

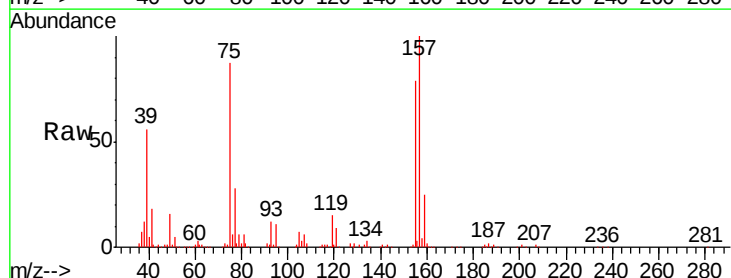
Tgt Ion: 75 Resp: 272535

Ion Ratio Lower Upper

75 100

155 90.6 72.2 108.2

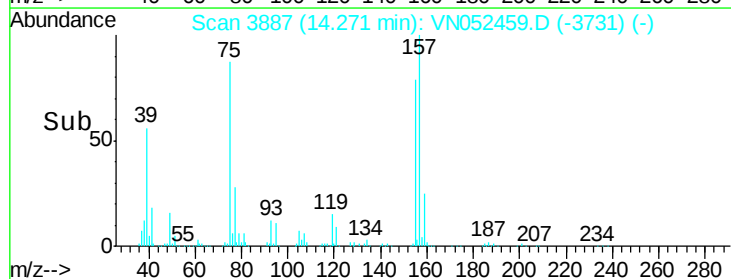
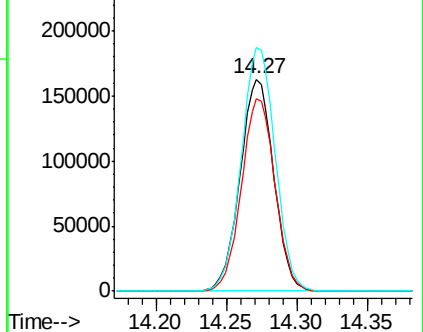
157 115.8 94.2 141.2

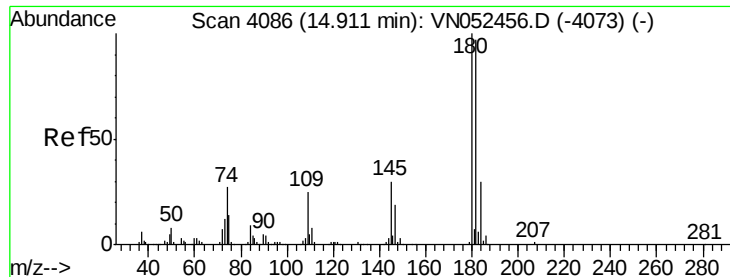


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





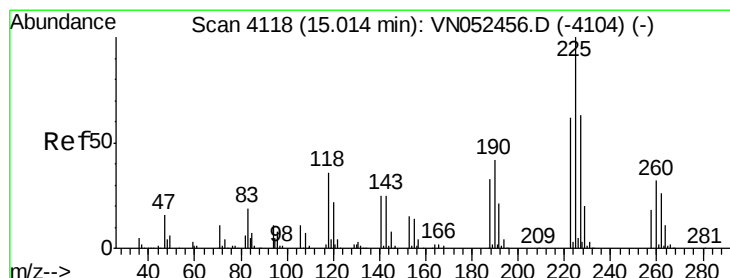
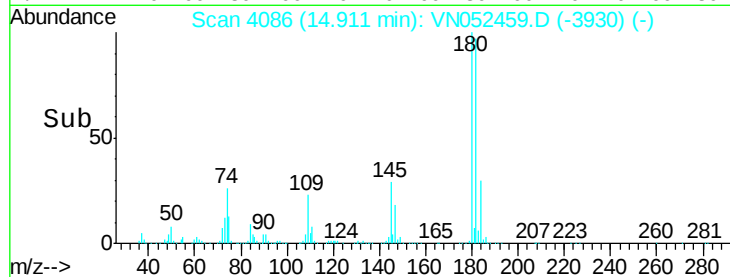
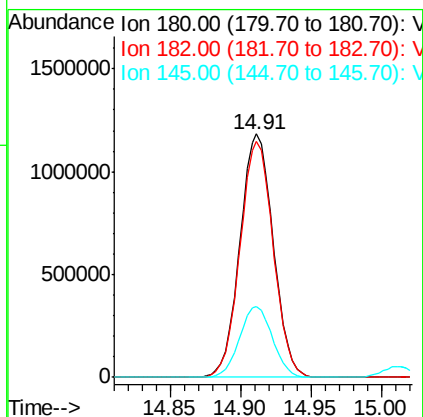
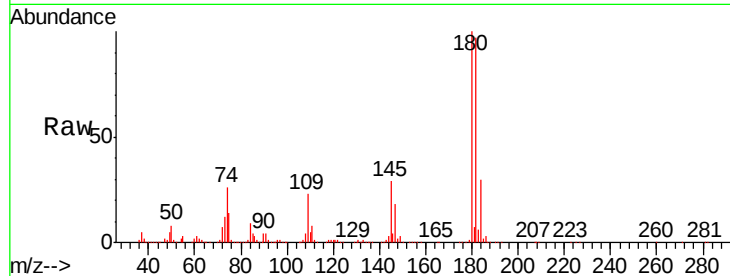
#89
 1,2,4-Trichlorobenzene
 Concen: 182.59 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.6	114.8
145	28.9	23.6	35.4

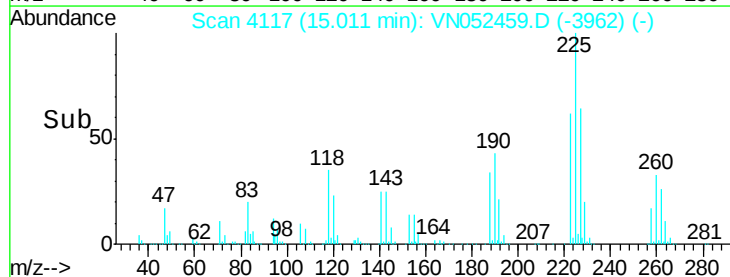
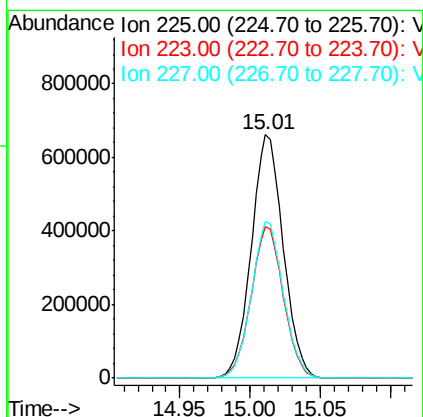
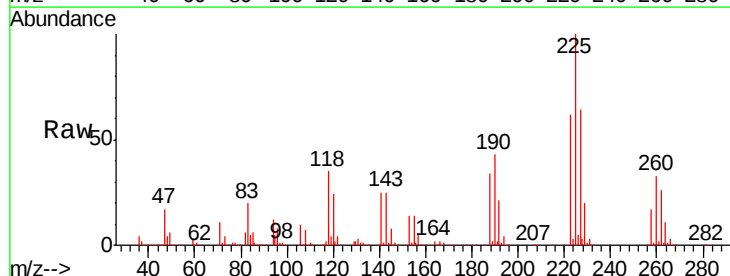
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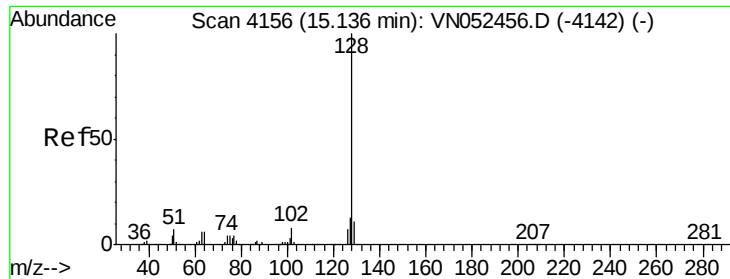
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#90
 Hexachlorobutadiene
 Concen: 149.73 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052459.D
 Acq: 26 Nov 2018 14:40

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	0.0	125.6
227	64.0	0.0	127.8





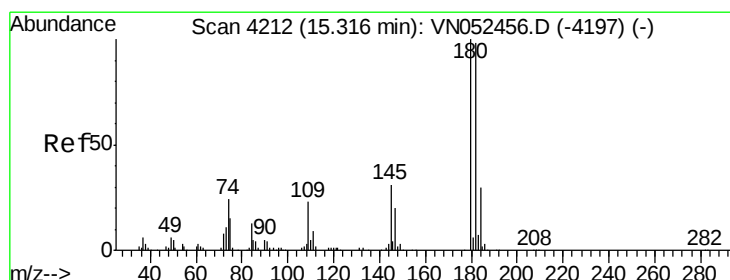
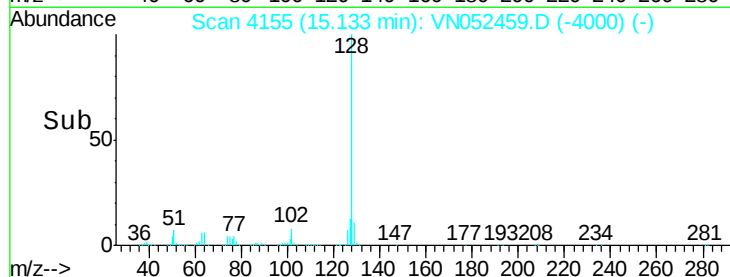
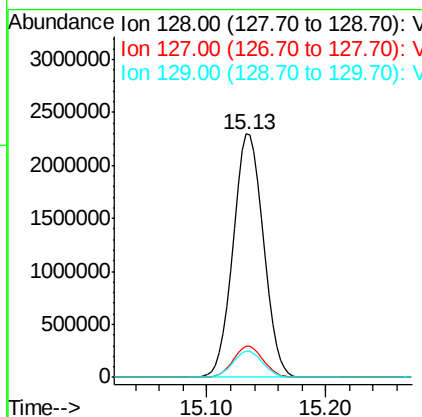
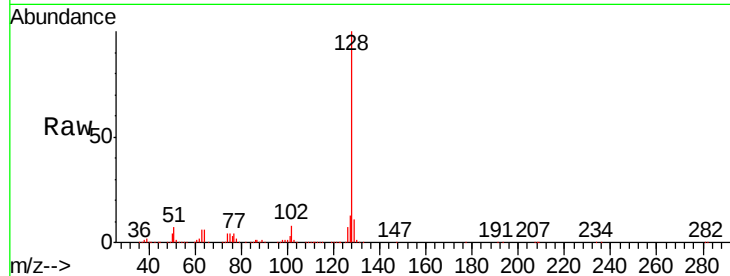
#91
Naphthalene
Concen: 187.25 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:128 Resp: 4048734
Ion Ratio Lower Upper
128 100
127 12.7 9.9 14.9
129 10.7 8.5 12.7

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#92
1,2,3-Trichlorobenzene
Concen: 179.33 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052459.D
Acq: 26 Nov 2018 14:40

Tgt Ion:180 Resp: 1769463
Ion Ratio Lower Upper
180 100
182 94.7 0.0 196.2
145 30.3 0.0 62.2

