

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112818\
 Data File : VN052550.D
 Acq On : 29 Nov 2018 5:40
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/29/2018 9:33:05 AM

Quant Time: Nov 29 07:34:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	187166	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1077076	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	931525	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	371627	29.14	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.13%
60) 4-Bromofluorobenzene	12.40	95	422717	29.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.93%
63) Toluene-d8	10.09	98	1290509	29.88	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	192007	18.012	ug/l 100
3) Chloromethane	2.06	50	250778	17.739	ug/l 100
4) Vinyl Chloride	2.19	62	267321	18.735	ug/l 97
5) Bromomethane	2.58	94	149789	18.411	ug/l 96
6) Chloroethane	2.71	64	162305	19.128	ug/l 98
7) Trichlorofluoromethane	3.02	101	334696	19.007	ug/l 97
8) Diethyl Ether	3.41	74	124716	19.181	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	203913	18.267	ug/l 97
10) 1,1-Dichloroethene	3.74	96	200840	19.135	ug/l 98
11) Methyl Iodide	3.96	142	277079	19.014	ug/l 99
12) Methyl Acetate	4.33	43	163819	18.370	ug/l 99
13) Acrolein	3.61	56	87017	83.067	ug/l 99
14) Acrylonitrile	4.99	53	353159	92.942	ug/l 97
15) Acetone	3.82	58	78146	79.412	ug/l 100
16) Carbon Disulfide	4.06	76	582264	17.522	ug/l 100
17) Allyl chloride	4.33	41	302829	16.544	ug/l 97
18) Methylene Chloride	4.55	84	234272	19.277	ug/l 95
19) trans-1,2-Dichloroethene	5.05	96	217926	19.294	ug/l 95
20) Diisopropyl ether	5.95	45	718265	18.673	ug/l 99
21) 1,1-Dichloroethane	5.85	63	415381	18.946	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	246897	19.072	ug/l 97
23) tert-Butyl Alcohol	4.78	59	60308	106.692	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	545403	19.808	ug/l 98
25) Chloroform	7.37	83	407429	19.263	ug/l 97
26) Cyclohexane	7.66	56	372385	18.009	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	312273	18.985	ug/l 99
30) 2-Butanone	6.84	43	385198	87.520	ug/l 99
31) 2,2-Dichloropropane	6.83	77	220730	14.577	ug/l 95
32) 1,1,1-Trichloroethane	7.57	97	334458	19.542	ug/l 98
33) Carbon Tetrachloride	7.77	117	285714	19.079	ug/l 97
34) Benzene	8.04	78	945423	19.118	ug/l 99
35) Methacrylonitrile	7.17	41	97886	17.926	ug/l 97
36) 1,2-Dichloroethane	8.13	62	290655	19.396	ug/l 100
37) Trichloroethene	8.84	130	245161	19.551	ug/l 97
38) Methylcyclohexane	9.08	83	364664	17.910	ug/l 97
39) 1,2-Dichloropropane	9.12	63	247247	18.652	ug/l 96
40) Dibromomethane	9.21	93	141497	19.753	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	300676	18.998	ug/l	97
42) Vinyl Acetate	5.90	43	2179817	91.537	ug/l	99
43) Ethyl Acetate	6.93	43	176034	18.810	ug/l #	70
44) Isopropyl Acetate	8.17	43	325579	19.836	ug/l	99
45) 1,4-Dioxane	9.20	88	37799	420.961	ug/l	93
46) Methyl methacrylate	9.20	41	164238	19.272	ug/l	98
47) n-amyl Acetate	12.07	43	246950	18.146	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	273269	17.808	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	332858	17.803	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	202268	19.920	ug/l	99
51) Ethyl methacrylate	10.43	69	248971	19.523	ug/l	96
52) 1,3-Dichloropropane	10.71	76	343302	18.994	ug/l	99
53) Dibromochloromethane	10.90	129	214632	19.199	ug/l	99
54) 1,2-Dibromoethane	11.01	107	194691	19.622	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	695318	93.144	ug/l	99
56) Bromoform	12.13	173	137148	18.769	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	897232	99.351	ug/l	98
59) 2-Hexanone	10.75	43	573152	92.907	ug/l	98
61) Tetrachloroethene	10.63	164	243603	21.233	ug/l	98
62) Toluene	10.16	91	1011457	19.696	ug/l	99
64) Chlorobenzene	11.44	112	617086	19.688	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	214170	19.685	ug/l	99
66) Ethyl Benzene	11.51	91	1079366	19.502	ug/l	99
67) m/p-Xylenes	11.62	106	814254	39.490	ug/l	99
68) o-Xylene	11.95	106	399079	19.941	ug/l	98
69) Styrene	11.96	104	632166	19.570	ug/l	100
70) Isopropylbenzene	12.25	105	1059290	19.893	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	229708	19.831	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	206699m	20.788	ug/l	
73) Bromobenzene	12.53	156	258981	20.110	ug/l	95
74) n-propylbenzene	12.59	91	1187852	19.146	ug/l	100
75) 2-Chlorotoluene	12.68	91	707209	19.638	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	846846	19.690	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	49908	15.889	ug/l	94
78) 4-Chlorotoluene	12.77	91	697174	19.386	ug/l	100
79) tert-butylbenzene	12.99	119	754417	20.141	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	850433	19.761	ug/l	99
81) sec-Butylbenzene	13.17	105	999480	19.158	ug/l	100
82) p-Isopropyltoluene	13.29	119	855881	19.266	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	442493	19.536	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	427567	19.538	ug/l	98
85) n-Butylbenzene	13.62	91	684777	17.945	ug/l	99
86) Hexachloroethane	13.88	117	135319	17.977	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	430958	19.994	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	30599	18.859	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	200576	18.888	ug/l	99
90) Hexachlorobutadiene	15.01	225	131037	18.810	ug/l	100
91) Naphthalene	15.14	128	411432	19.186	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	188885	19.301	ug/l	98

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VSTDCCC020EC

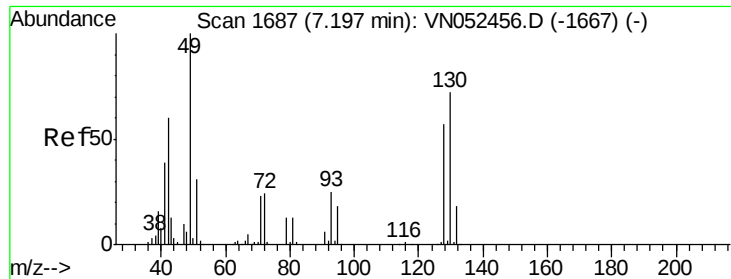
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

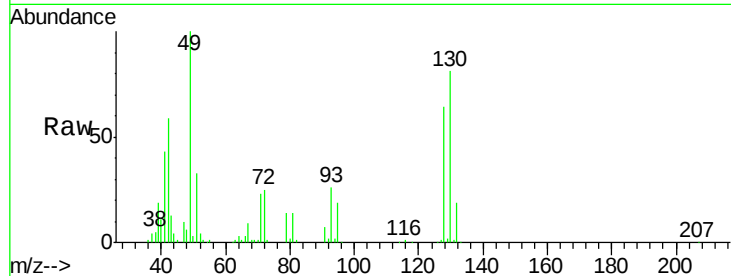
ClientSampleId :

VSTDCCC020EC

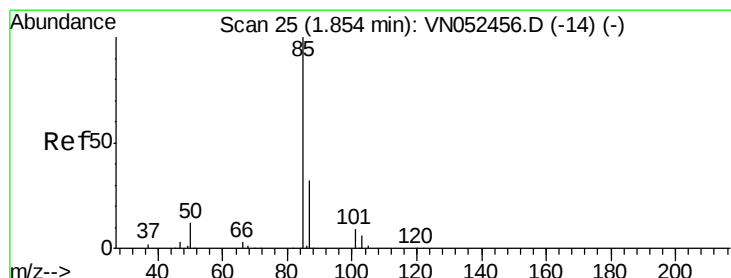
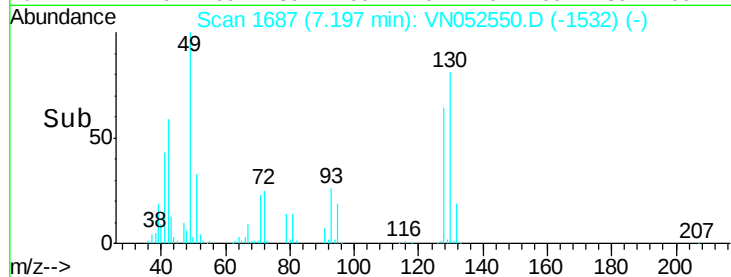
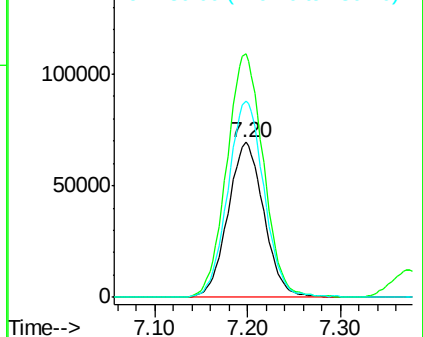
Tot Ion:	128	Resp:	187166
Ion	Ratio	Lower	Upper
128	100		
49	159.8	0.0	431.8
130	127.9	0.0	317.0

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



#2

Dichlorodifluoromethane

Concen: 18.012 ug/l

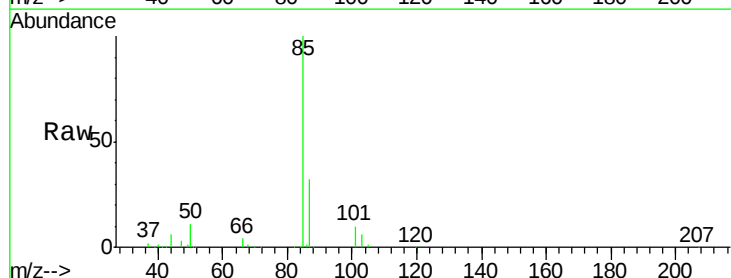
RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

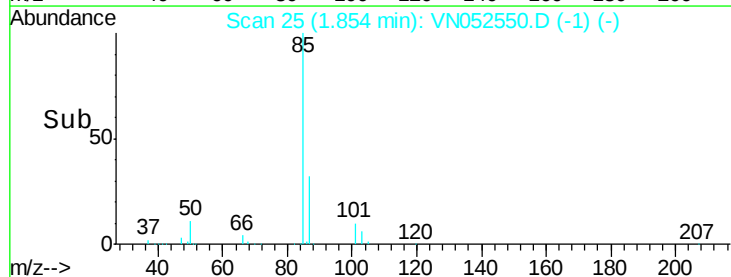
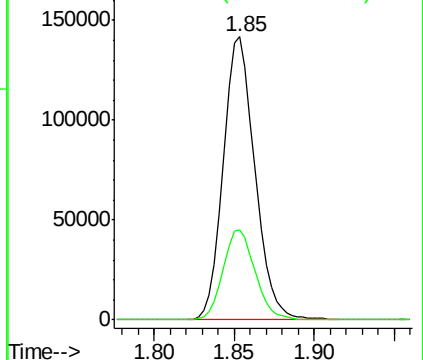
Lab File: VN052550.D

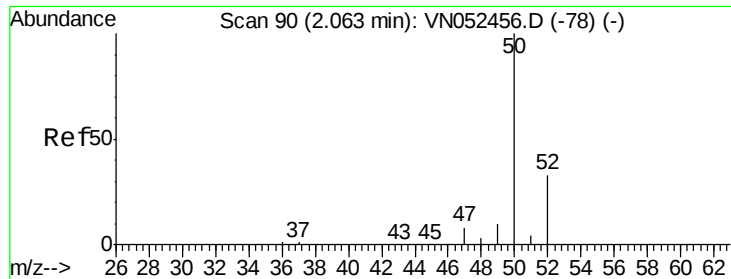
Acq: 29 Nov 2018 5:40

Tgt Ion:	85	Resp:	192007
Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.1	48.3



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





#3

Chloromethane

Concen: 17.739 ug/l

RT: 2.06 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

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ClientSampleId :

VSTDCCC020EC

Tot Ion: 50 Resp: 250778

Ion Ratio Lower Upper

50 100

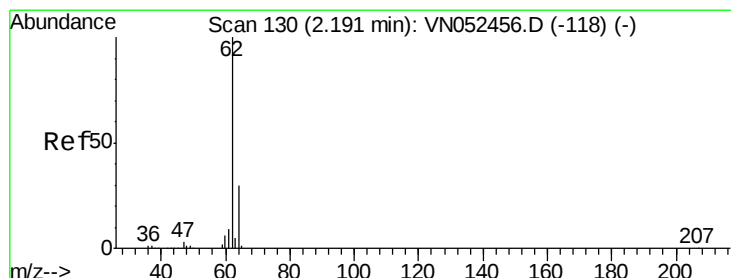
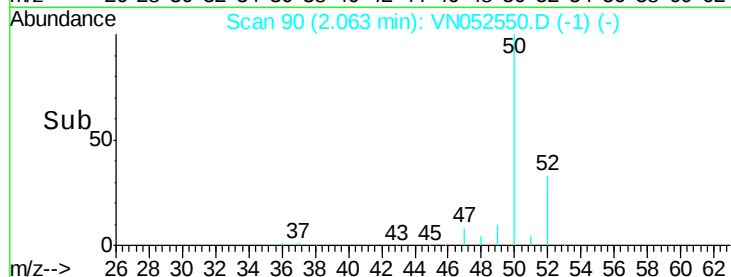
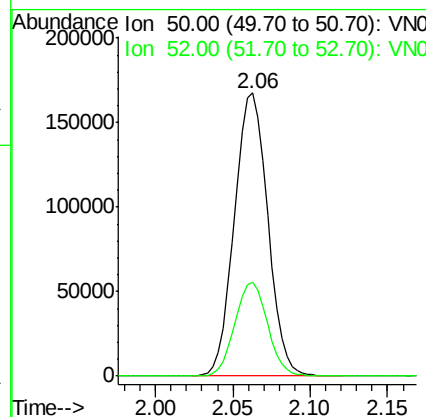
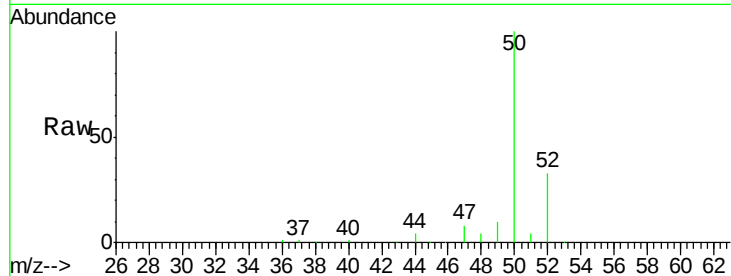
52 33.4 26.5 39.7

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#4

Vinyl Chloride

Concen: 18.735 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052550.D

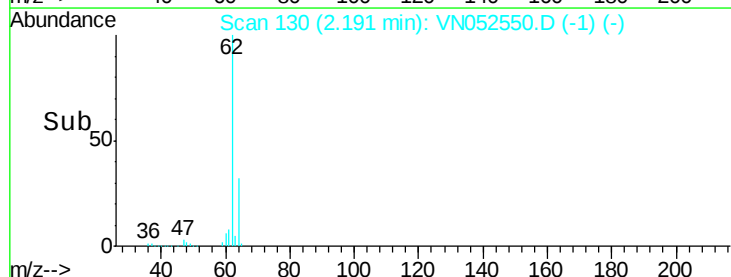
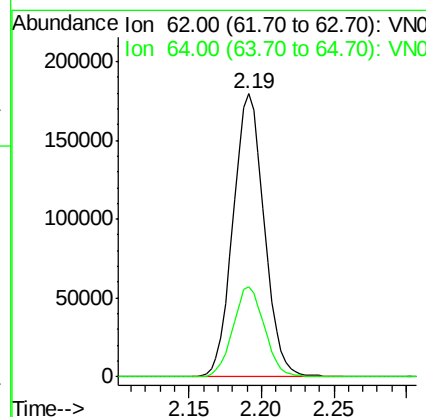
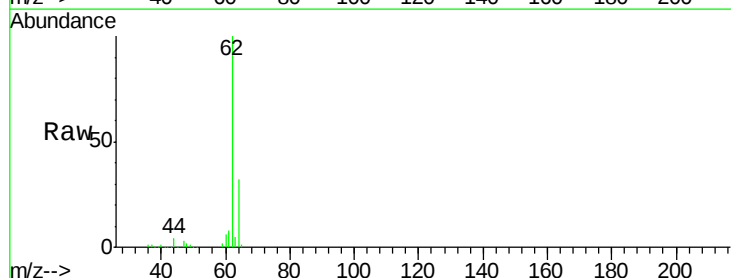
Acq: 29 Nov 2018 5:40

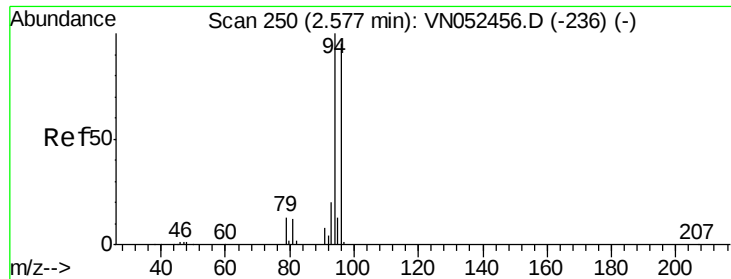
Tgt Ion: 62 Resp: 267321

Ion Ratio Lower Upper

62 100

64 32.0 24.2 36.4





#5

Bromomethane

Concen: 18.411 ug/l

RT: 2.58 min Scan# 250

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

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Tot Ion: 94 Resp: 149789

Ion Ratio Lower Upper

94 100

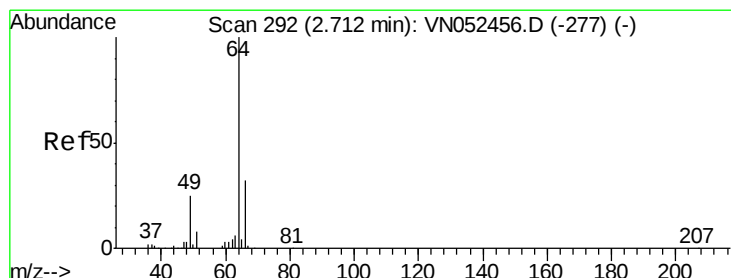
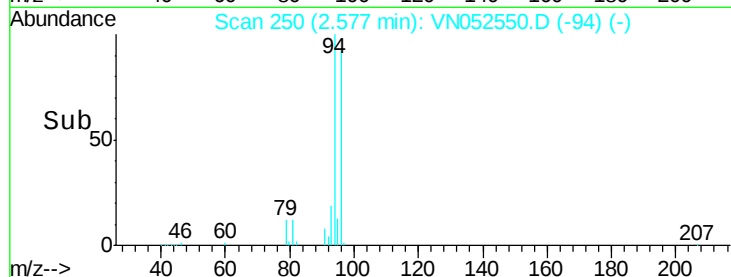
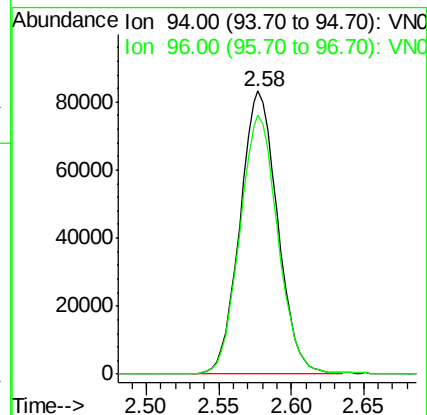
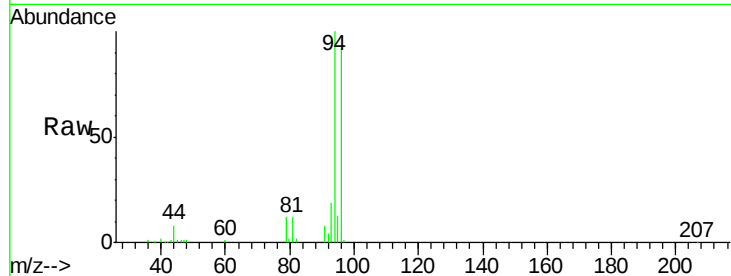
96 91.5 76.2 114.2

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#6

Chloroethane

Concen: 19.128 ug/l

RT: 2.71 min Scan# 292

Delta R.T. -0.00 min

Lab File: VN052550.D

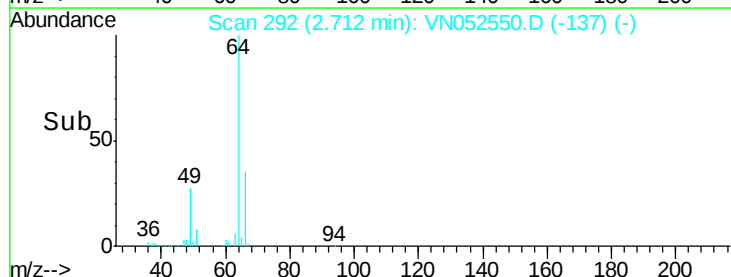
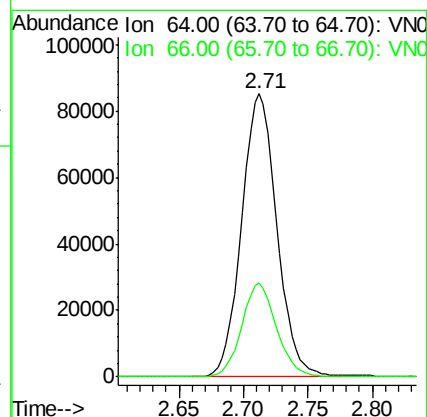
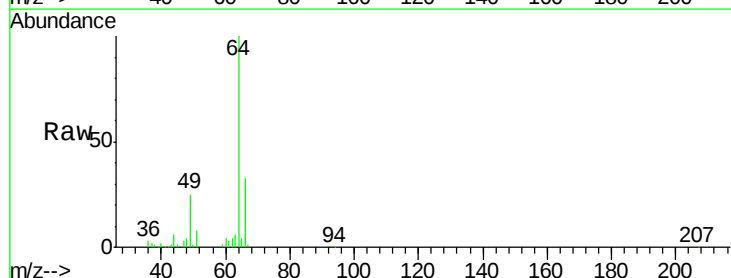
Acq: 29 Nov 2018 5:40

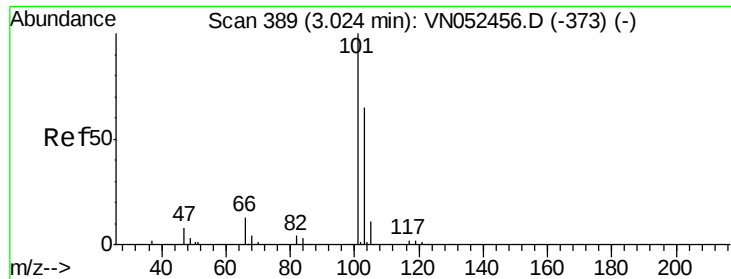
Tgt Ion: 64 Resp: 162305

Ion Ratio Lower Upper

64 100

66 33.1 25.6 38.4





#7

Trichlorofluoromethane

Concen: 19.007 ug/l

RT: 3.02 min Scan# 389

Delta R.T. -0.00 min

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Tot Ion:101 Resp: 334696

Ion Ratio Lower Upper

101 100

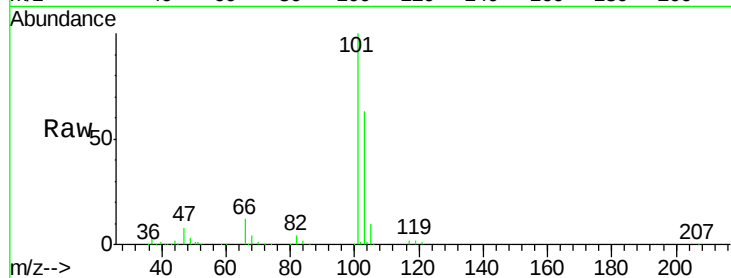
103 62.8 52.1 78.1

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

150000

100000

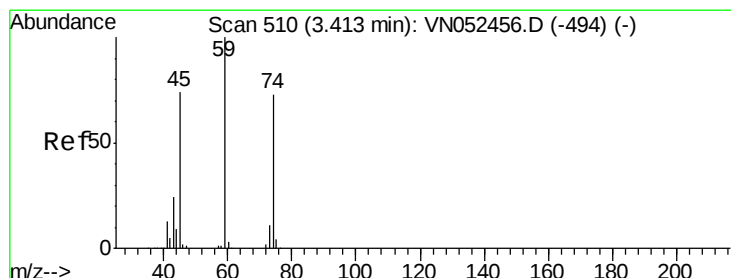
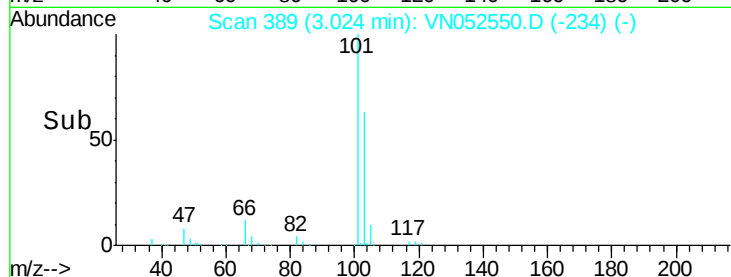
50000

0

3.02

3.10

Time-->



#8

Diethyl Ether

Concen: 19.181 ug/l

RT: 3.41 min Scan# 510

Delta R.T. -0.00 min

Lab File: VN052550.D

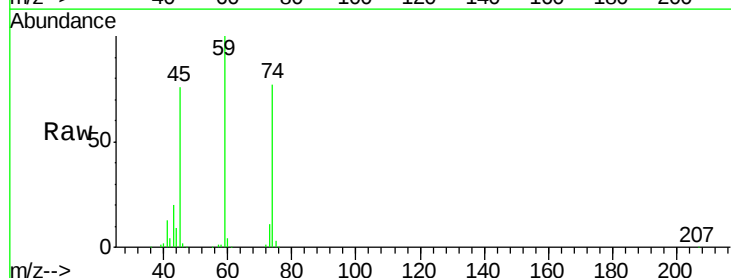
Acq: 29 Nov 2018 5:40

Tgt Ion: 74 Resp: 124716

Ion Ratio Lower Upper

74 100

45 98.1 20.6 185.8



Abundance Ion 74.00 (73.70 to 74.70): V

Ion 45.00 (44.70 to 45.70): V

60000

50000

40000

30000

20000

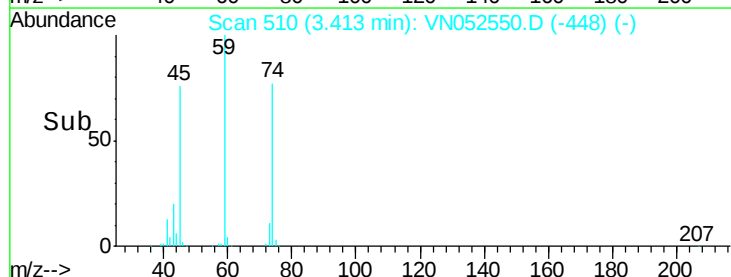
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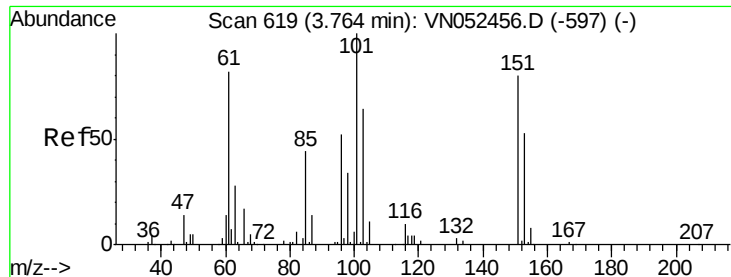
0

3.41

3.50

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.267 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

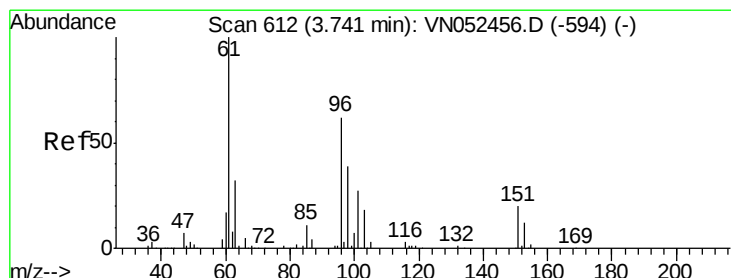
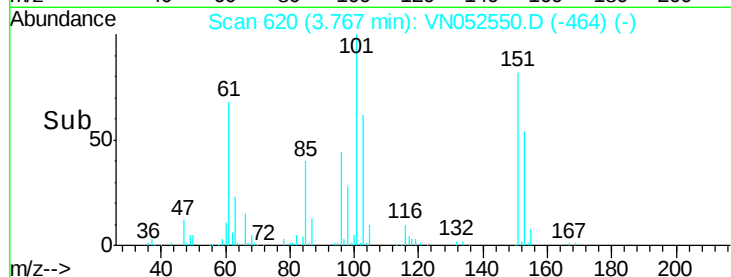
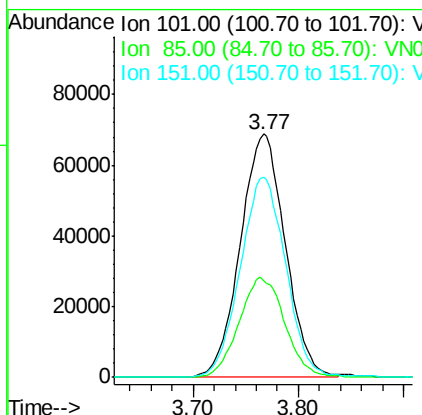
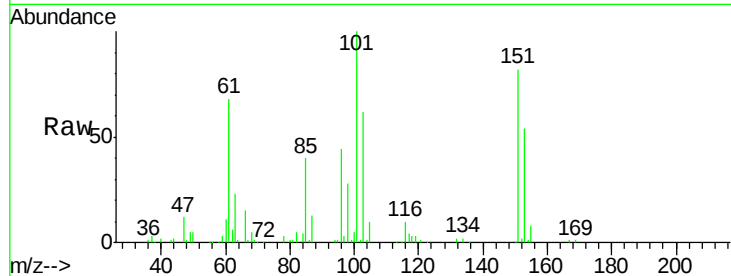
ClientSampleId :

VSTDCCC020EC

Tot Ion:	101	Resp:	203913
Ion Ratio	Lower	Upper	
101	100		
85	41.6	0.0	82.6
151	83.4	0.0	158.4

Manual Integrations
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11/29/2018 9:33:05 AM



#10

1,1-Dichloroethene

Concen: 19.135 ug/l

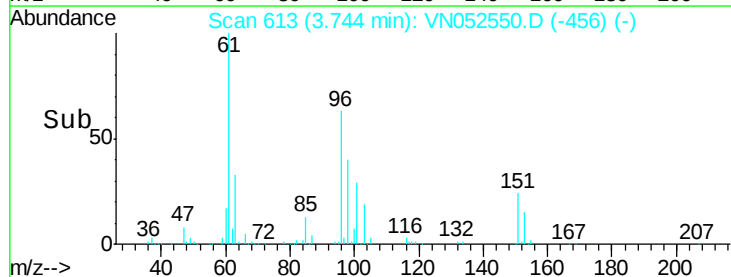
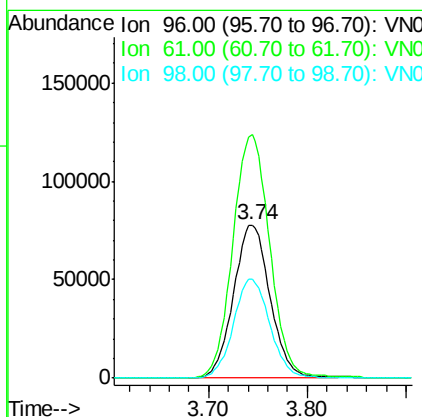
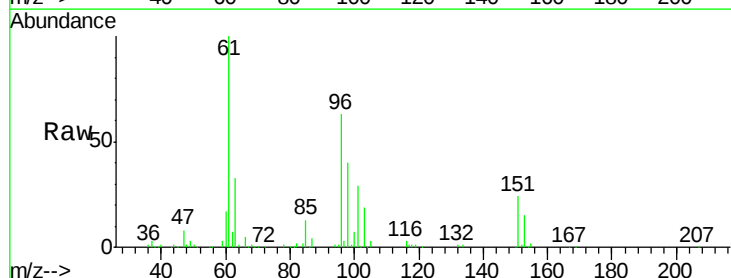
RT: 3.74 min Scan# 613

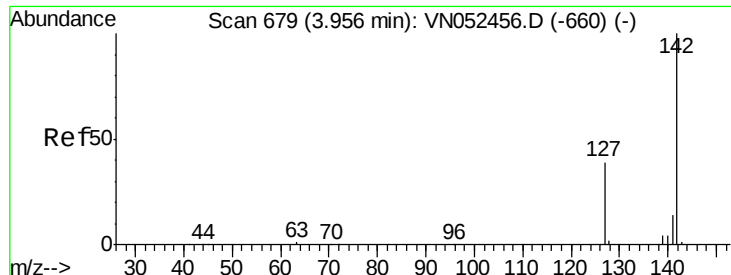
Delta R.T. 0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Tgt Ion:	96	Resp:	200840
Ion Ratio	Lower	Upper	
96	100		
61	158.8	129.4	194.2
98	64.3	50.4	75.6





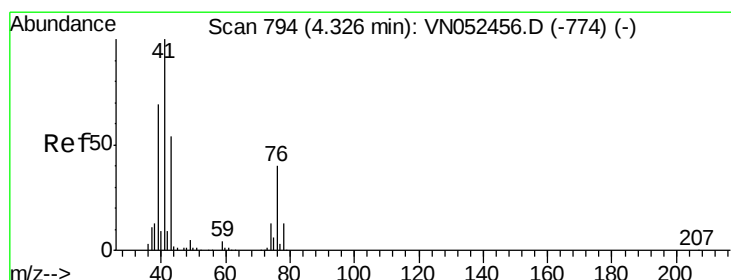
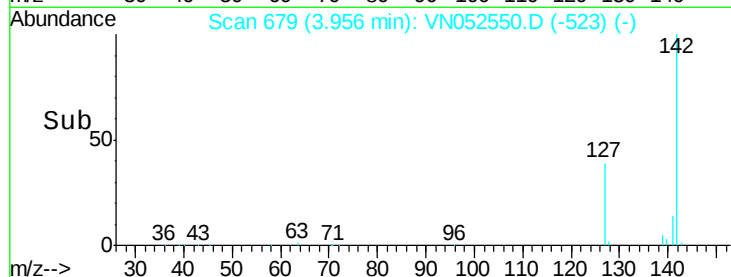
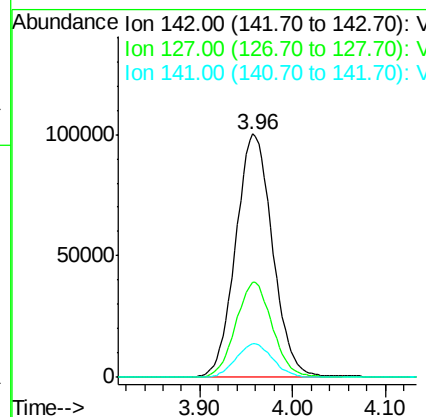
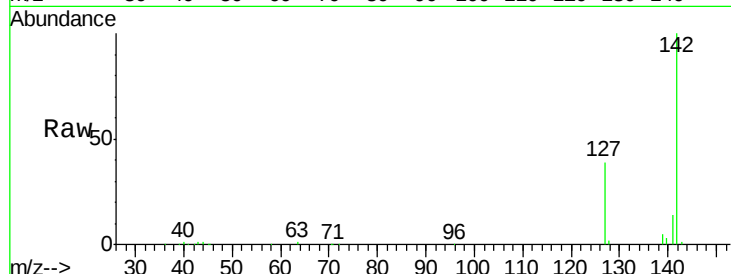
#11
Methvl Iodide
Concen: 19.014 ug/l
RT: 3.96 min Scan# 679
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
142	100		
127	38.9	19.4	58.1
141	13.8	7.2	21.6

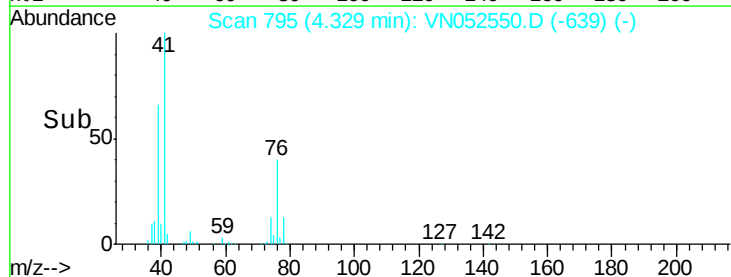
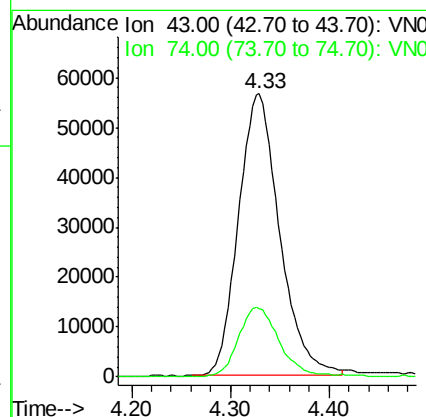
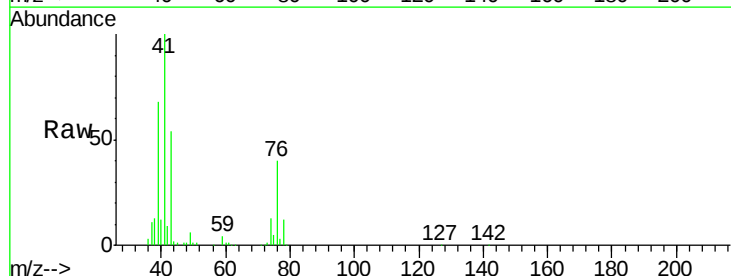
Manual Integrations
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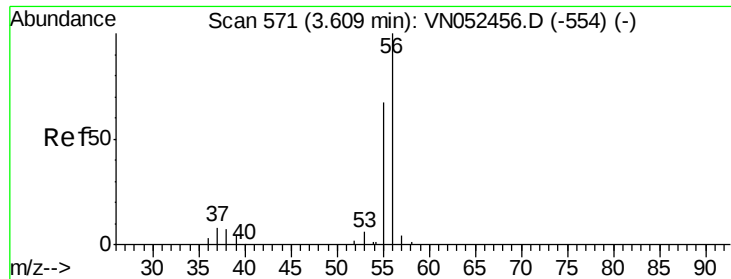
MMDadoda
11/29/2018 9:33:05 AM



#12
Methyl Acetate
Concen: 18.370 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.3	18.9	28.3





#13

Acrolein

Concen: 83.067 ug/l

RT: 3.61 min Scan# 571

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 56 Resp: 87017

Ion Ratio Lower Upper

56 100

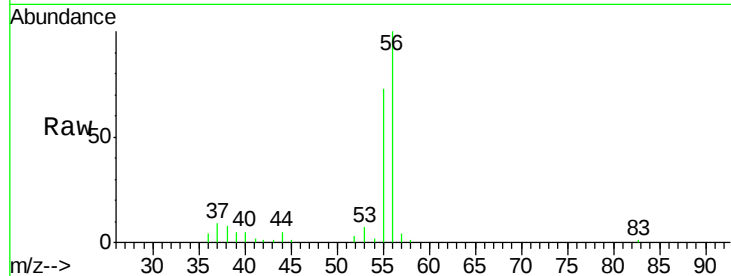
55 70.4 56.7 85.1

Manual Integrations

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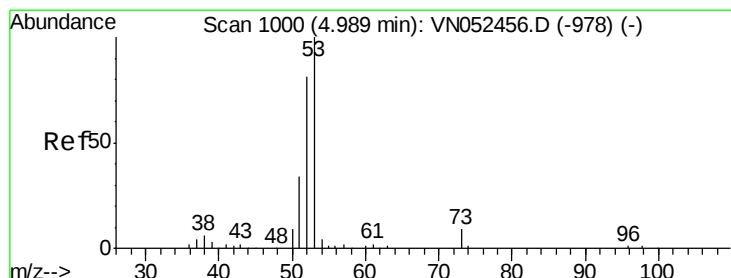
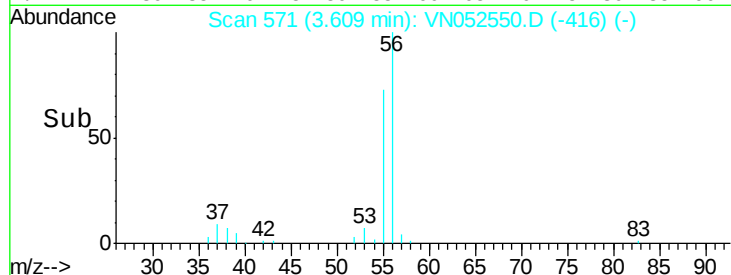
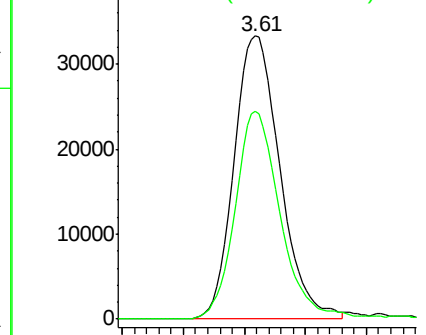
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 92.942 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

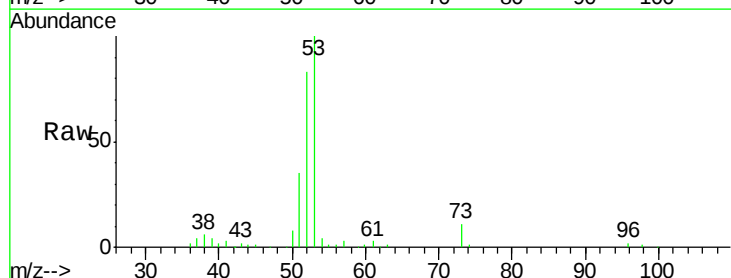
Tgt Ion: 53 Resp: 353159

Ion Ratio Lower Upper

53 100

52 83.2 39.9 119.7

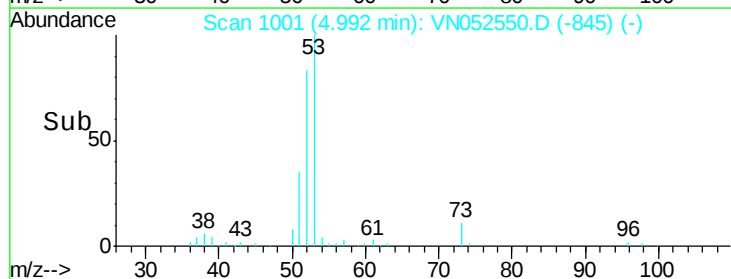
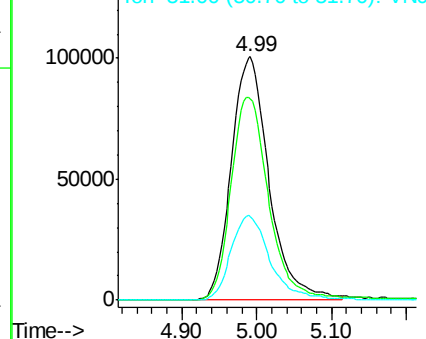
51 35.8 17.6 52.9

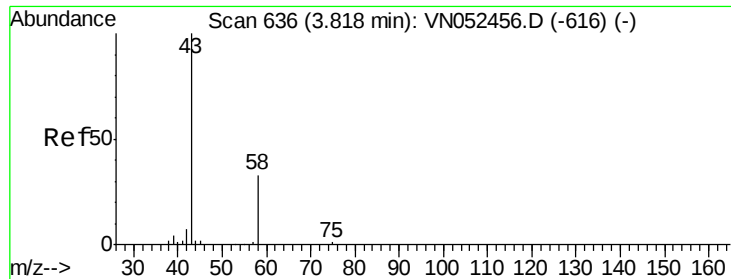


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 79.412 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 58 Resp: 78146

Ion Ratio Lower Upper

58 100

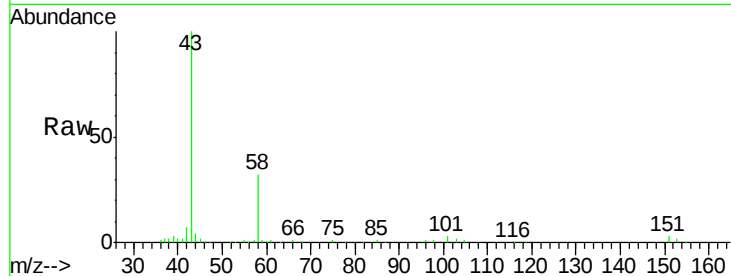
43 305.4 243.6 365.4

Manual Integrations

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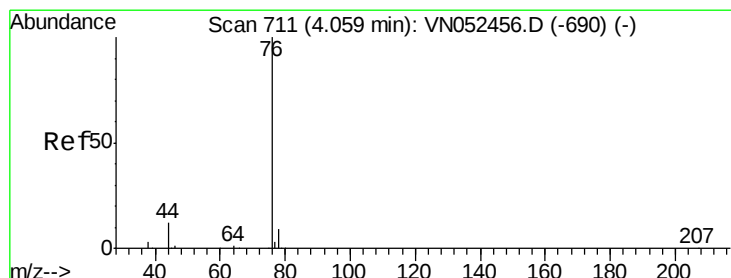
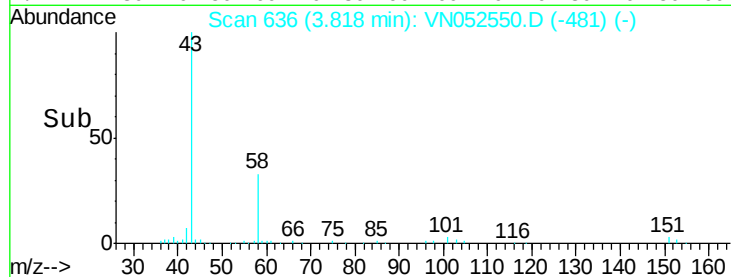
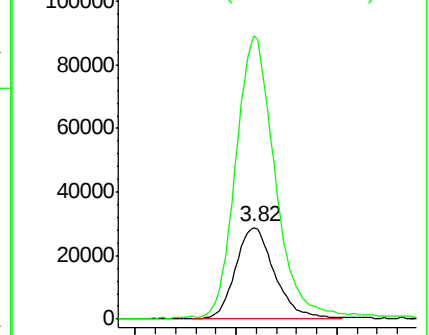
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Abundance Ion 58.00 (57.70 to 58.70): VN052550.D (-481) (-)

Ion 43.00 (42.70 to 43.70): VN052550.D (-481) (-)



#16

Carbon Disulfide

Concen: 17.522 ug/l

RT: 4.06 min Scan# 711

Delta R.T. -0.00 min

Lab File: VN052550.D

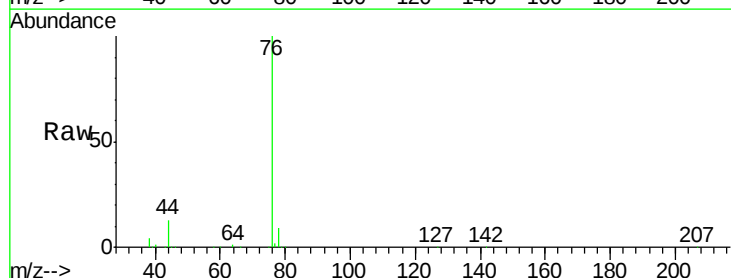
Acq: 29 Nov 2018 5:40

Tgt Ion: 76 Resp: 582264

Ion Ratio Lower Upper

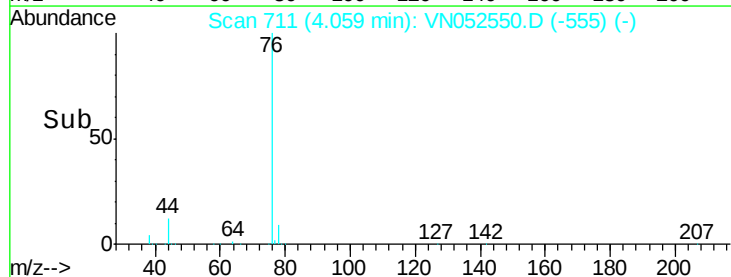
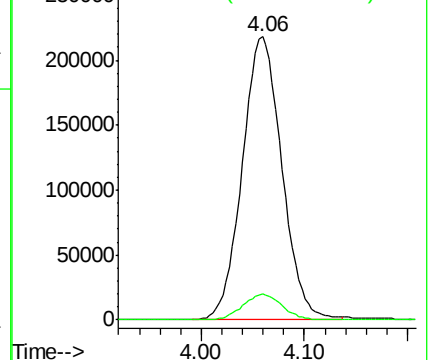
76 100

78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN052550.D (-555) (-)

Ion 78.00 (77.70 to 78.70): VN052550.D (-555) (-)





#17

Allvl chloride

Concen: 16.544 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

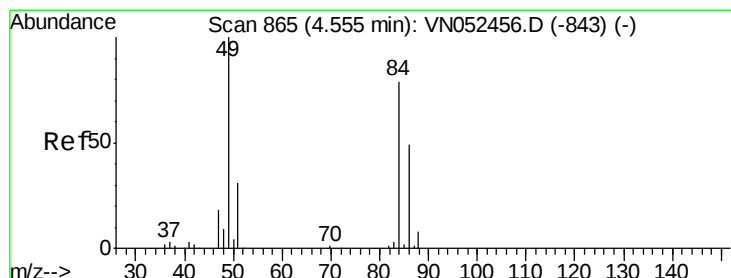
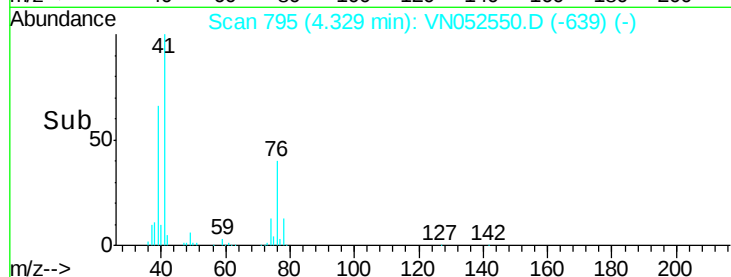
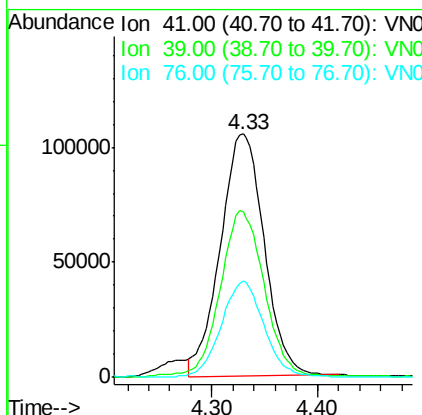
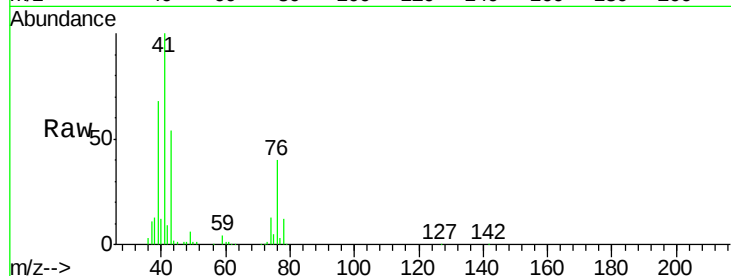
ClientSampleId :

VSTDCCC020EC

Tot Ion:	41	Resp:	302829
Ion Ratio		Lower	Upper
41	100		
39	67.8	32.8	98.3
76	39.7	18.6	55.8

Manual Integrations
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#18

Methylene Chloride

Concen: 19.277 ug/l

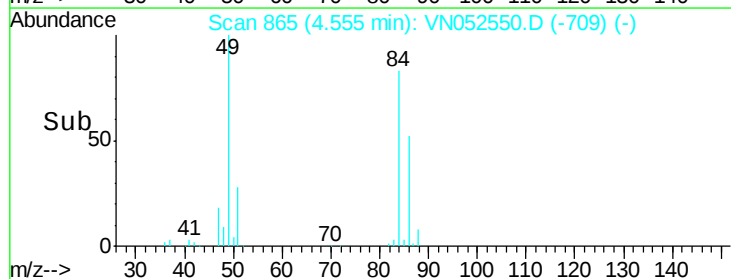
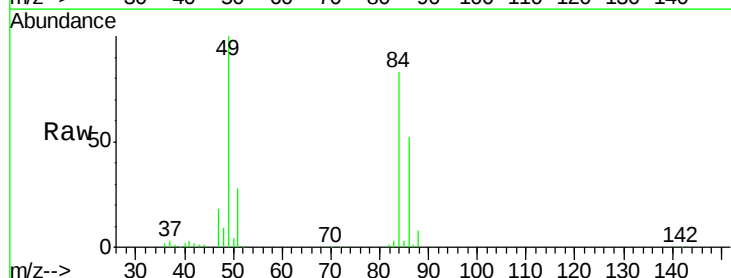
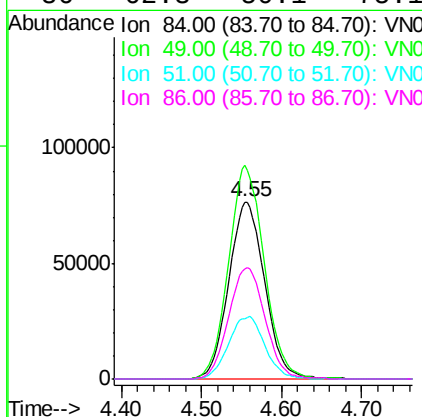
RT: 4.55 min Scan# 865

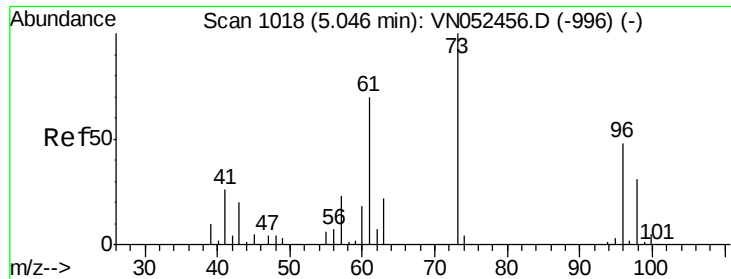
Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Tgt Ion:	84	Resp:	234272
Ion Ratio		Lower	Upper
84	100		
49	120.6	101.4	152.0
51	33.9	31.7	47.5
86	62.3	50.1	75.1





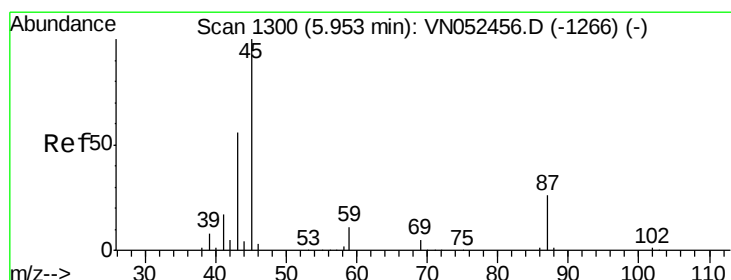
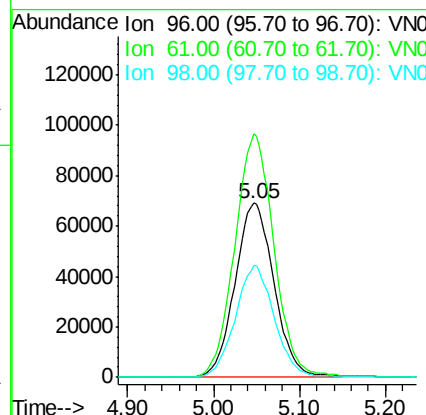
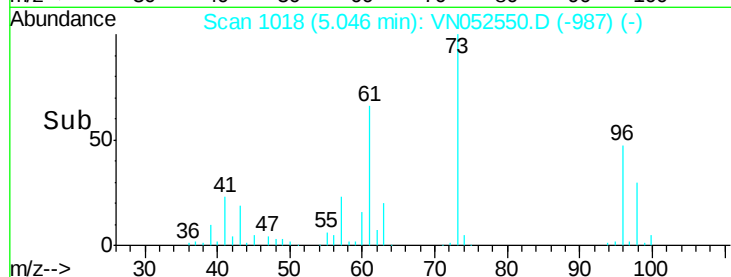
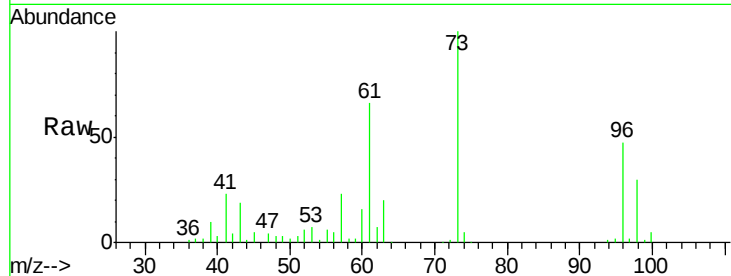
#19
trans-1,2-Dichloroethene
Concen: 19.294 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.5	118.2	177.4
98	64.3	51.4	77.2

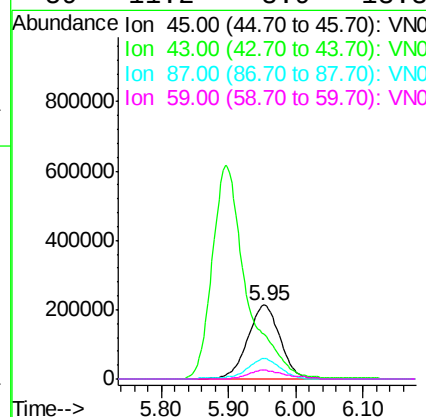
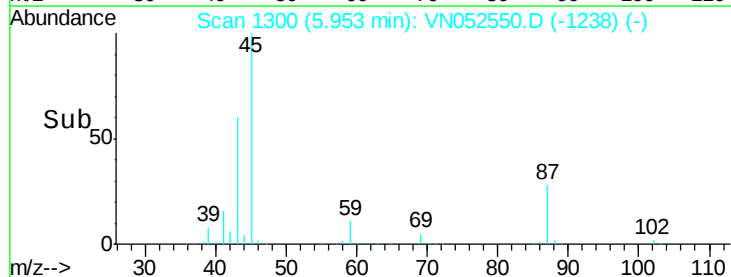
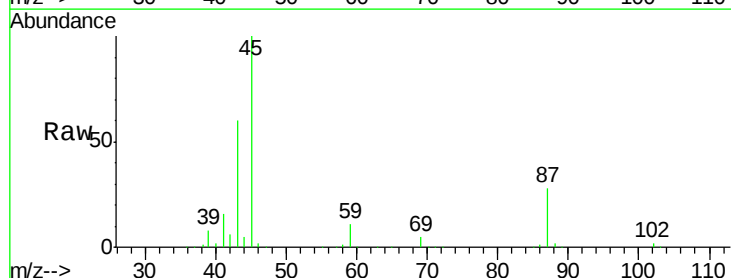
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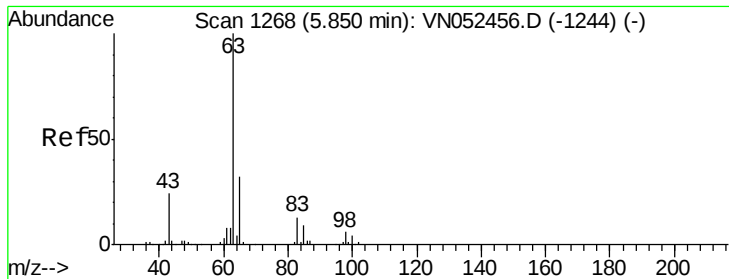
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#20
Diisopropyl ether
Concen: 18.673 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.8	47.8	71.8
87	27.8	21.3	31.9
59	11.2	8.9	13.3





#21

1,1-Dichloroethane

Concen: 18.946 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

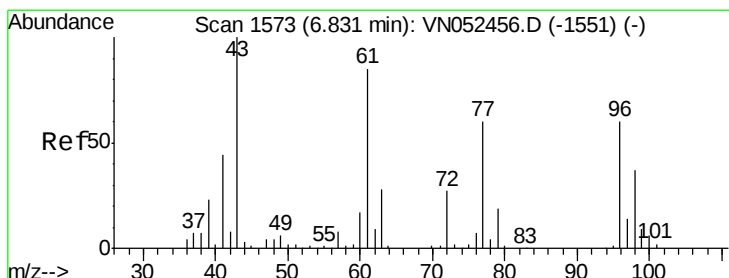
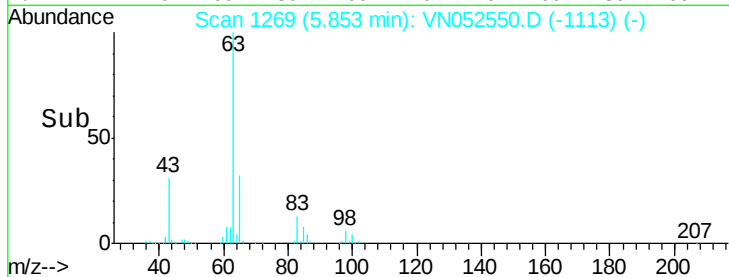
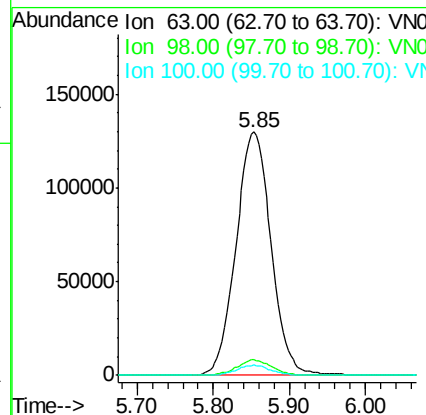
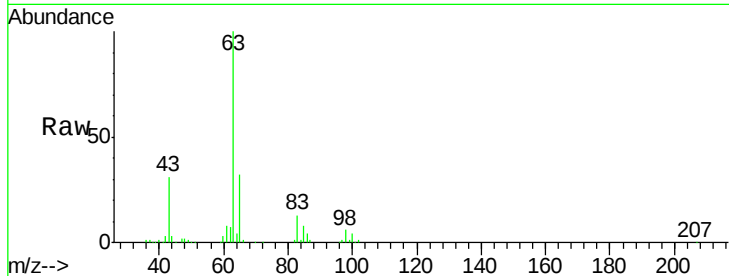
ClientSampleId :

VSTDCCC020EC

Tot Ion:	63	Resp:	415381
Ion Ratio	Lower	Upper	
63	100		
98	6.4	3.0	9.2
100	4.1	1.8	5.5

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#22

cis-1,2-Dichloroethene

Concen: 19.072 ug/l

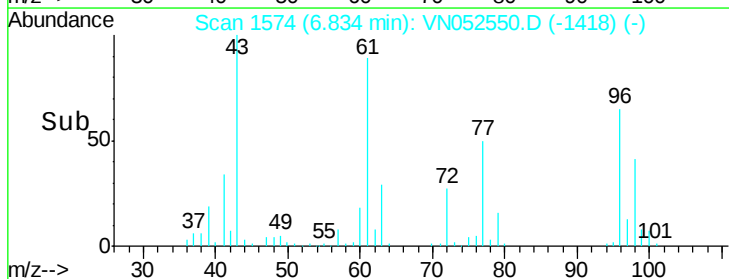
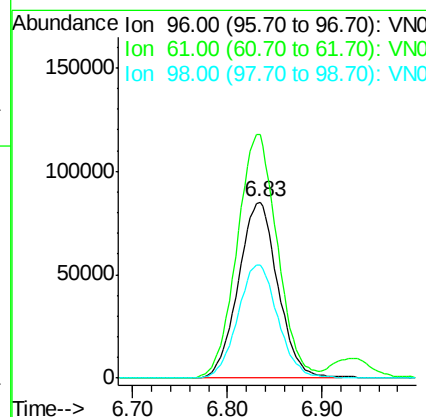
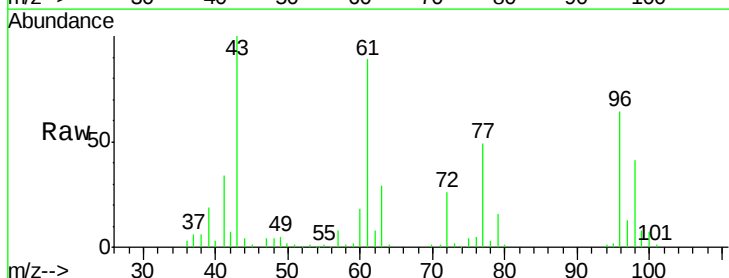
RT: 6.83 min Scan# 1574

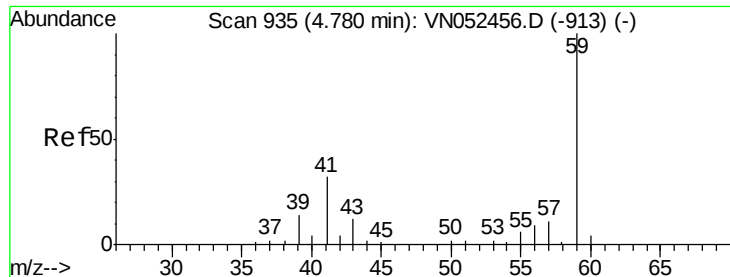
Delta R.T. 0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Tgt Ion:	96	Resp:	246897
Ion Ratio	Lower	Upper	
96	100		
61	141.0	116.7	175.1
98	65.1	50.8	76.2





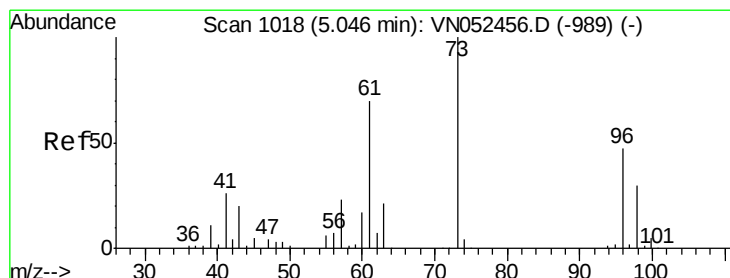
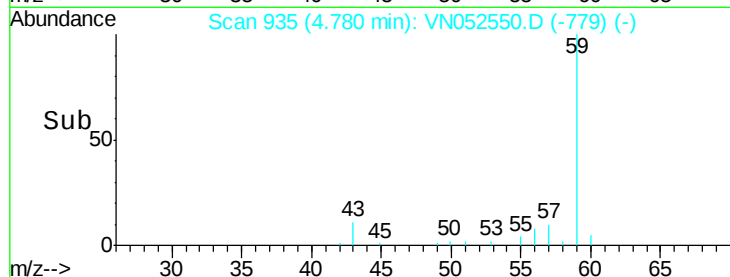
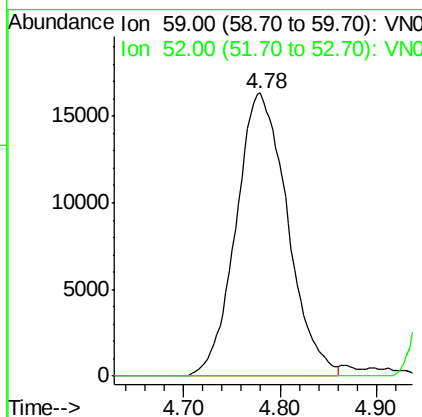
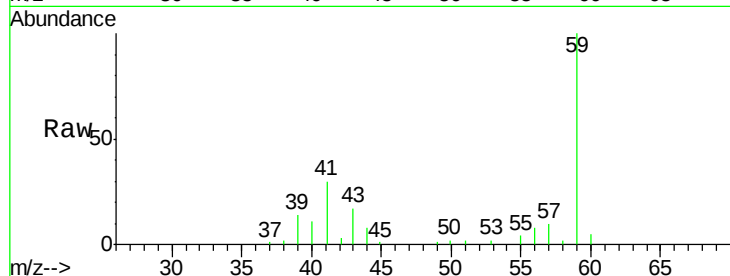
#23
 tert-Butyl Alcohol
 Concen: 106.692 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

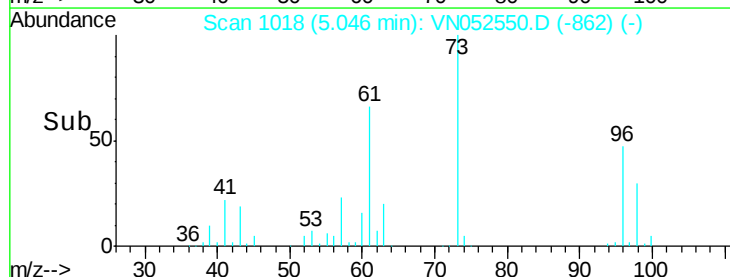
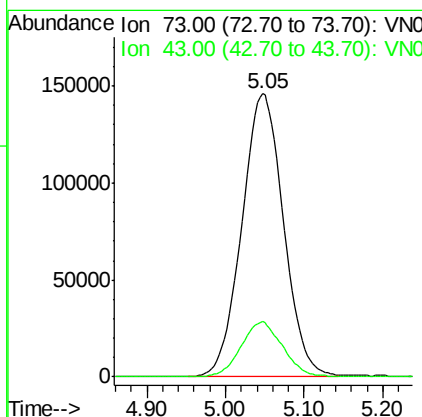
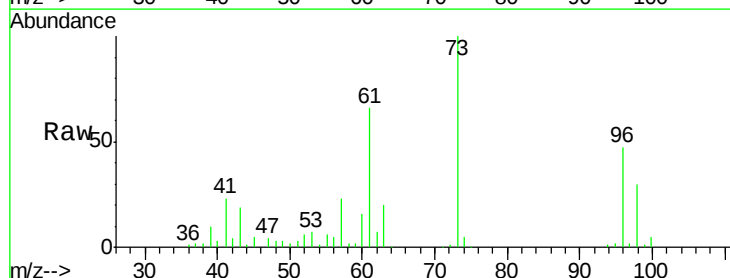
Manual Integrations
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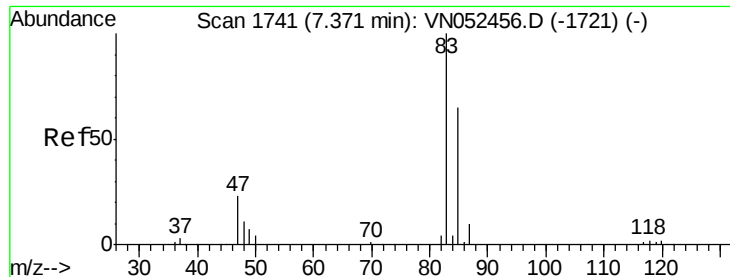
MMDadoda
 11/29/2018 9:33:05 AM



#24
 Methyl tert-Butyl Ether
 Concen: 19.808 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.0	15.8	23.8





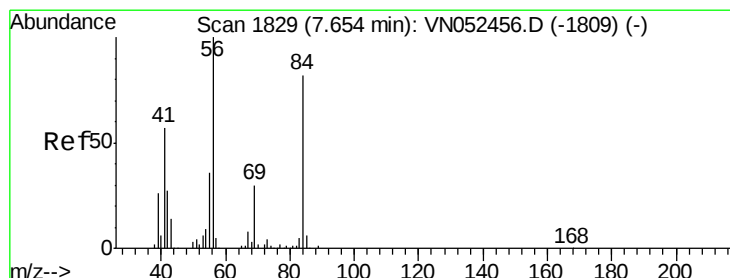
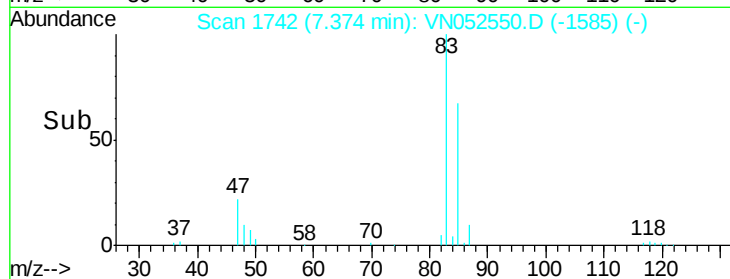
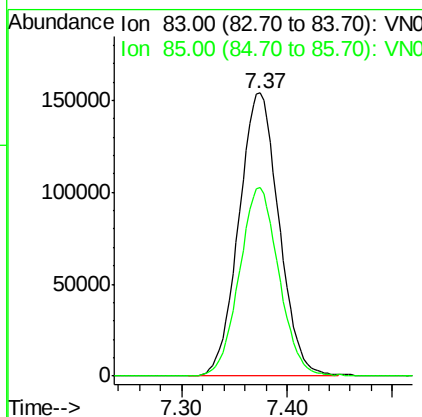
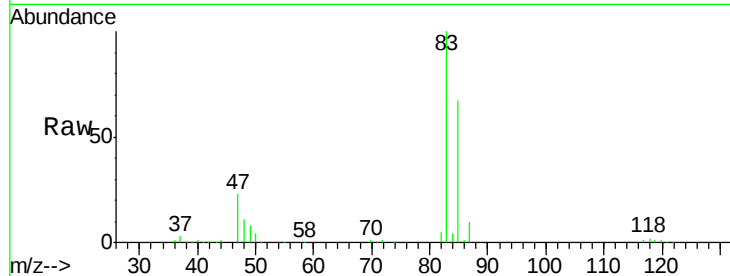
#25
Chloroform
Concen: 19.263 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	83	Resp	407429
Ion Ratio	Lower	Upper	
83	100		
85	66.9	51.7	77.5

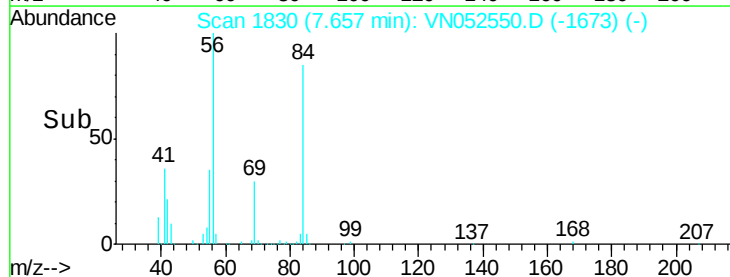
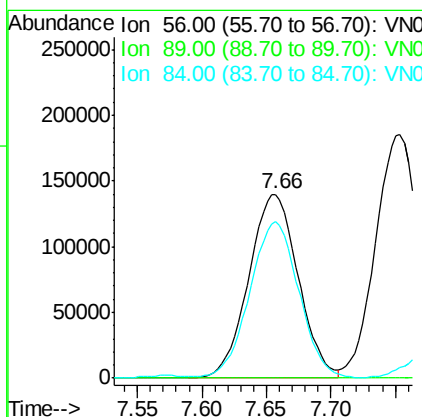
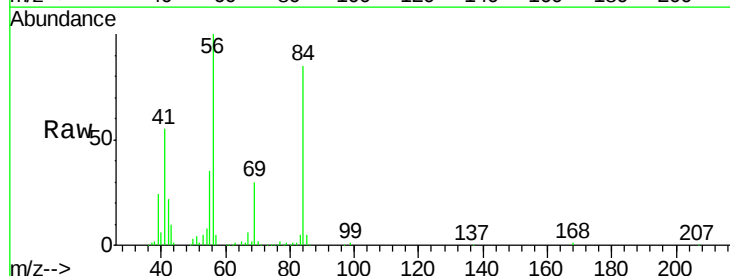
Manual Integrations
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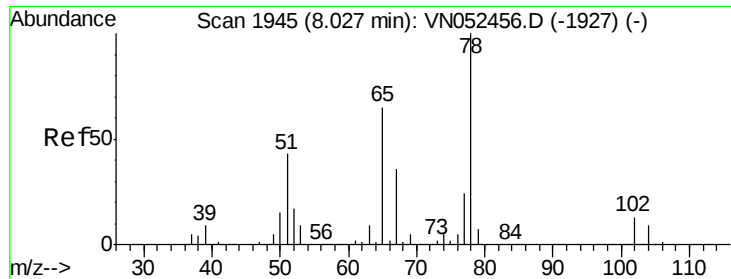
MMDadoda
11/29/2018 9:33:05 AM



#26
Cyclohexane
Concen: 18.009 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion	56	Resp	372385
Ion Ratio	Lower	Upper	
56	100		
89	0.0	0.5	0.7#
84	84.9	66.2	99.2





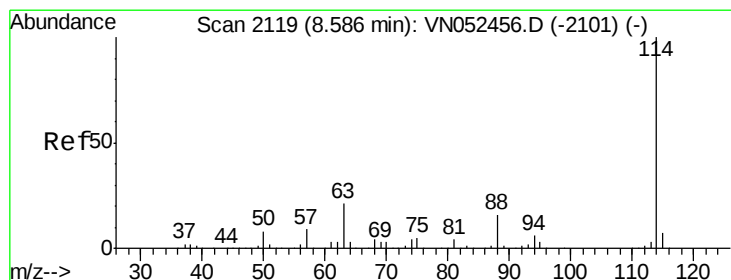
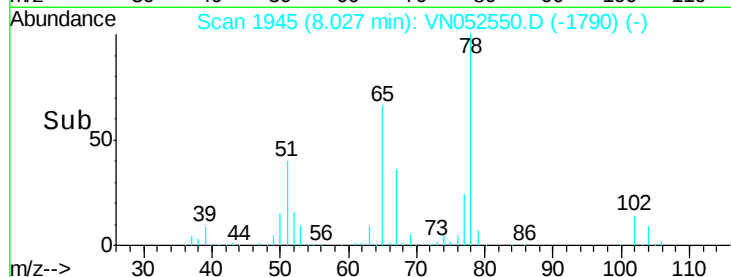
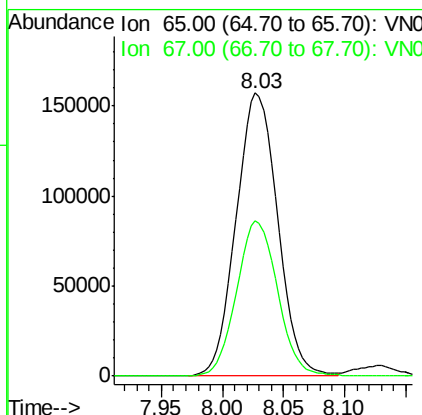
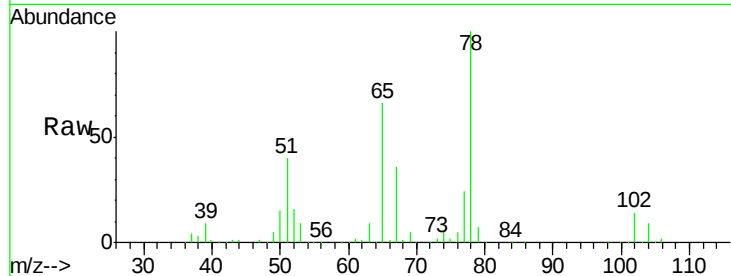
#27
 1,2-Dichloroethane-d4
 Concen: 18.009 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 65 Resp: 371627
 Ion Ratio Lower Upper
 65 100
 67 54.2 44.6 66.8

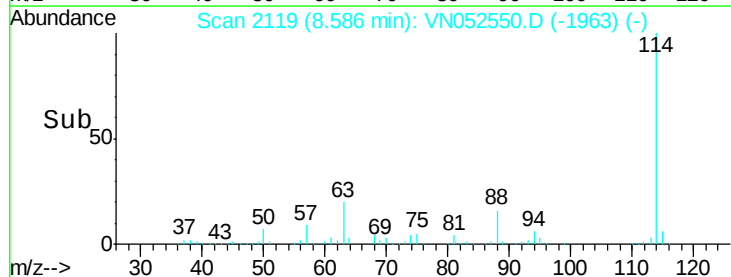
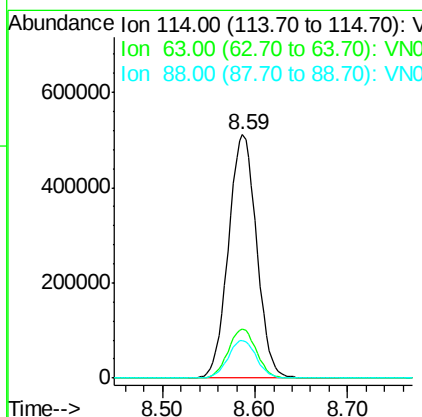
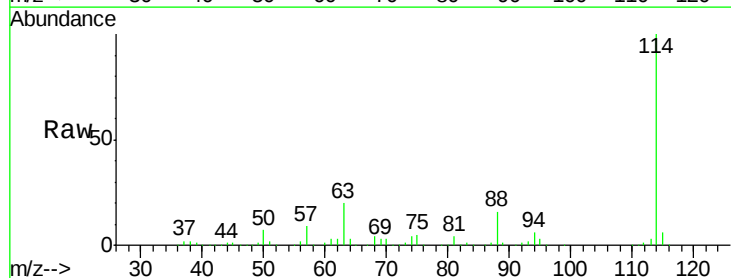
Manual Integrations
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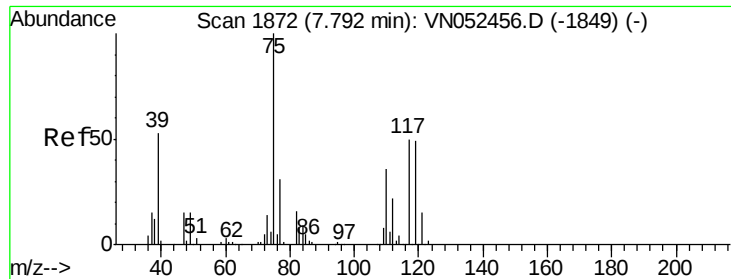
MMDadoda
 11/29/2018 9:33:05 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Tgt Ion: 114 Resp: 1077076
 Ion Ratio Lower Upper
 114 100
 63 20.1 16.9 25.3
 88 15.4 12.8 19.2





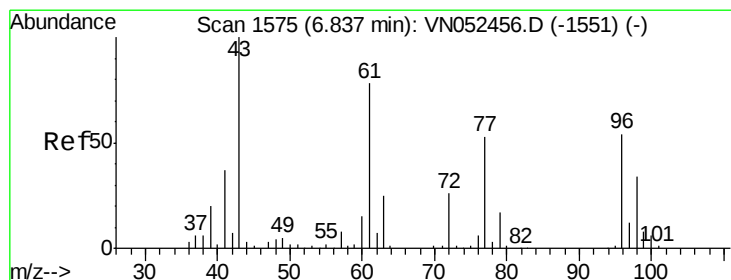
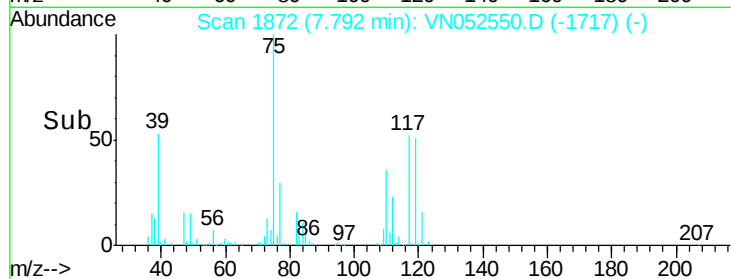
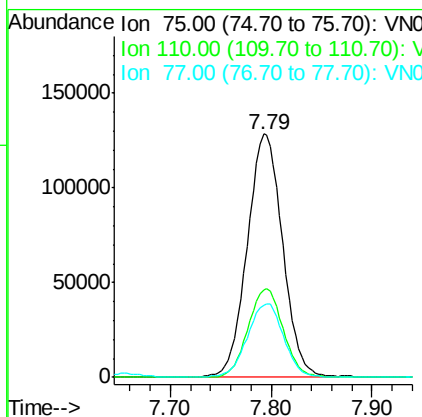
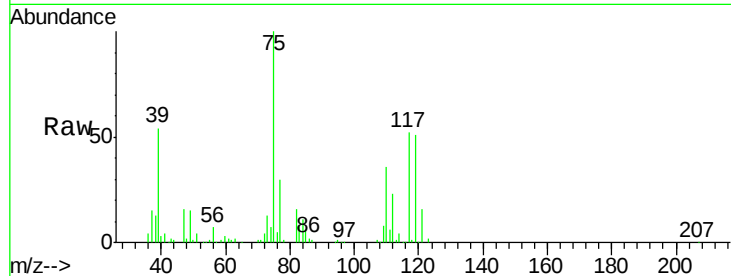
#29
 1,1-Dichloropropene
 Concen: 18.985 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
110	36.1	0.0	70.2
77	31.1	0.0	62.6

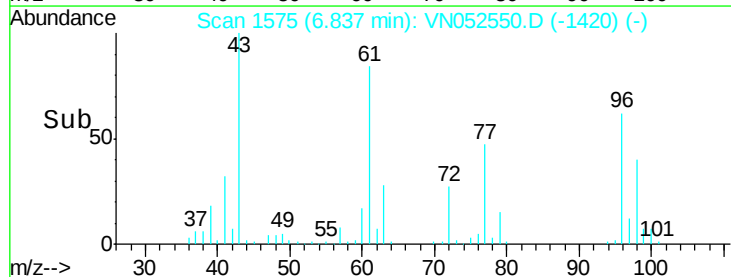
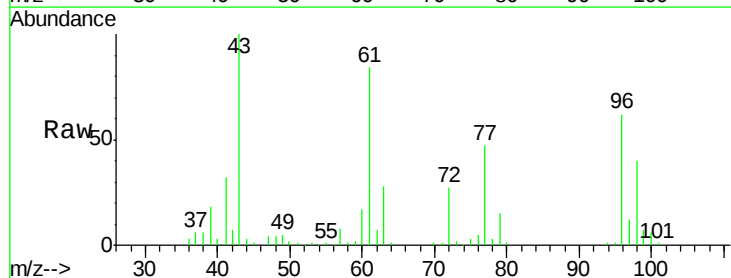
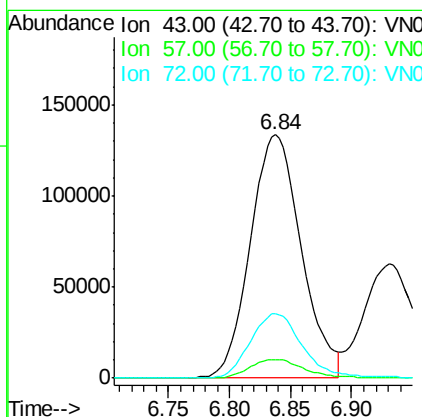
Manual Integrations
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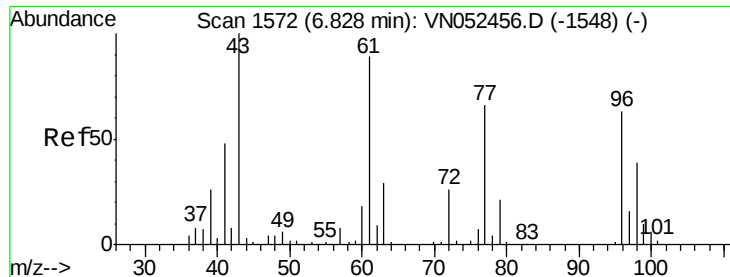
MMDadoda
 11/29/2018 9:33:05 AM



#30
 2-Butanone
 Concen: 87.520 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
43	100		
57	7.9	6.2	9.4
72	27.2	21.0	31.6





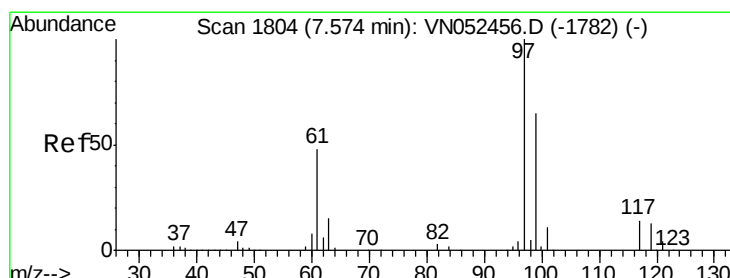
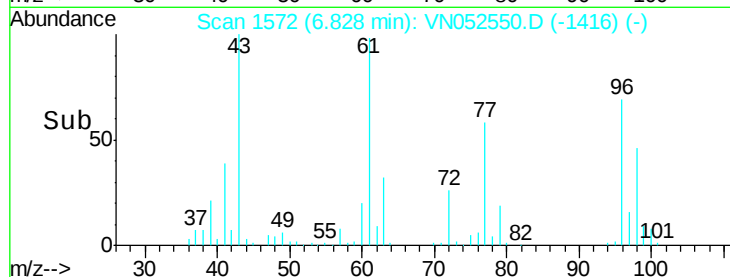
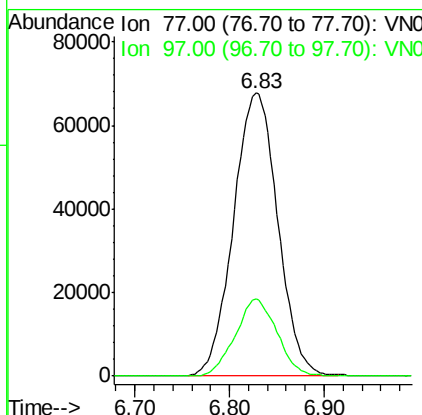
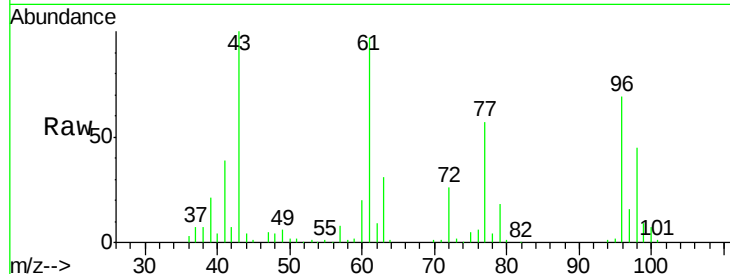
#31
 2,2-Dichloropropane
 Concen: 14.577 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 77 Resp: 220730
 Ion Ratio Lower Upper
 77 100
 97 25.6 18.7 28.1

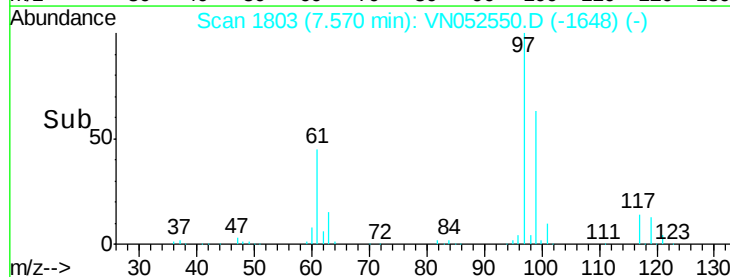
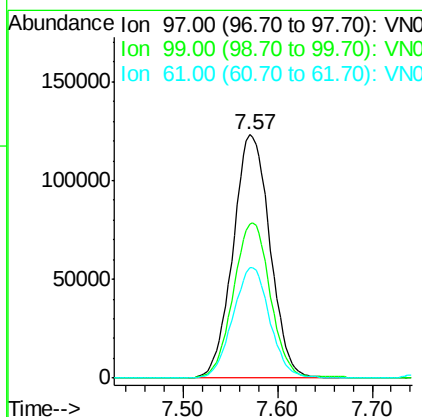
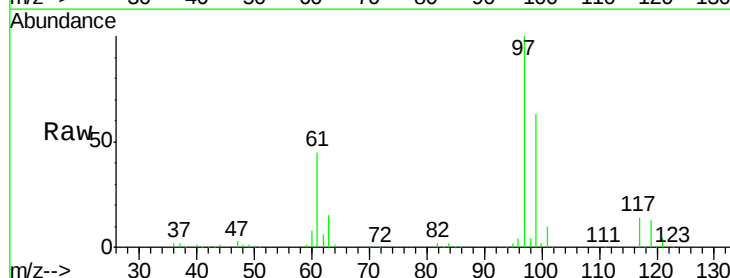
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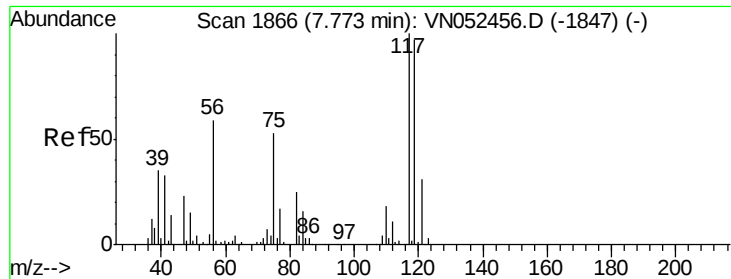
MMDadoda
 11/29/2018 9:33:05 AM



#32
 1,1,1-Trichloroethane
 Concen: 19.542 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Tgt Ion: 97 Resp: 334458
 Ion Ratio Lower Upper
 97 100
 99 63.8 50.9 76.3
 61 45.1 38.1 57.1





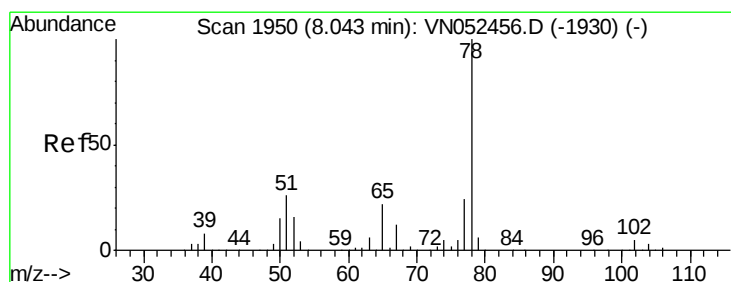
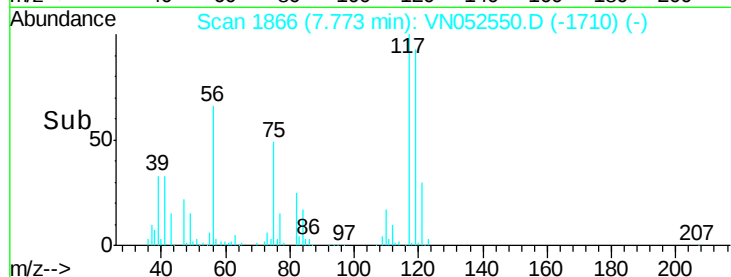
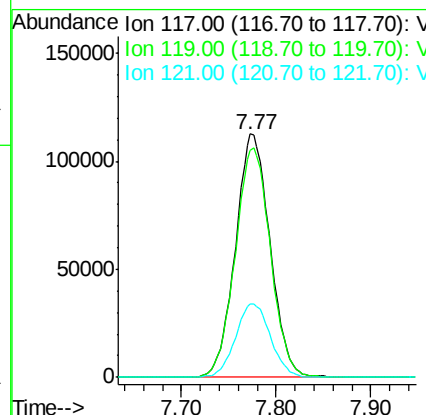
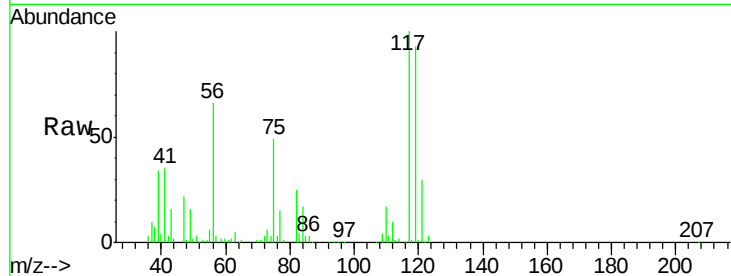
#33
Carbon Tetrachloride
Concen: 19.079 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.5	77.3	115.9
121	30.1	24.9	37.3

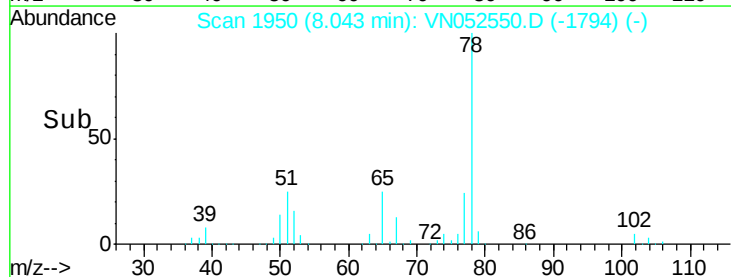
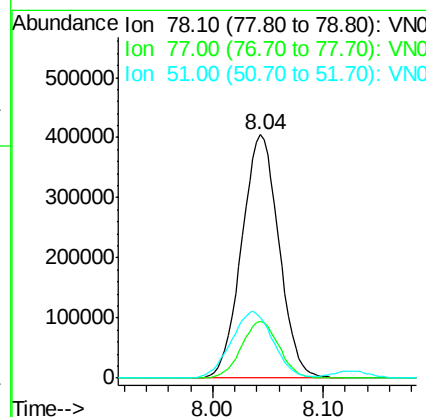
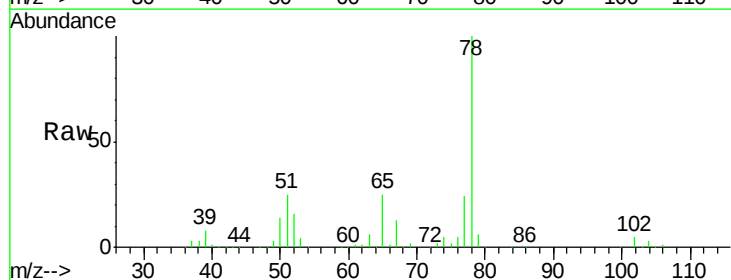
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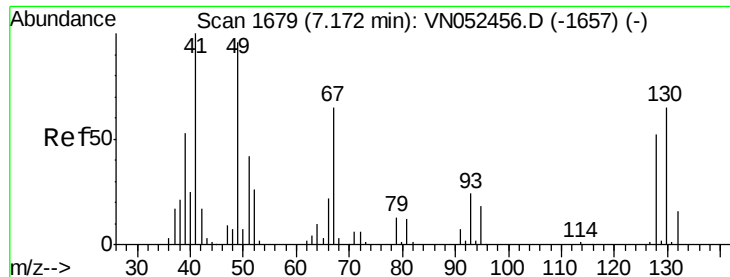
MMDadoda
11/29/2018 9:33:05 AM



#34
Benzene
Concen: 19.118 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6
51	24.7	20.5	30.7





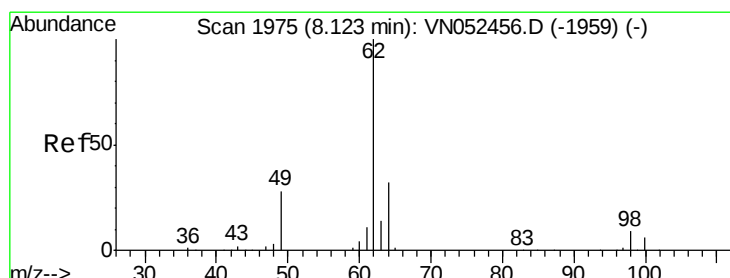
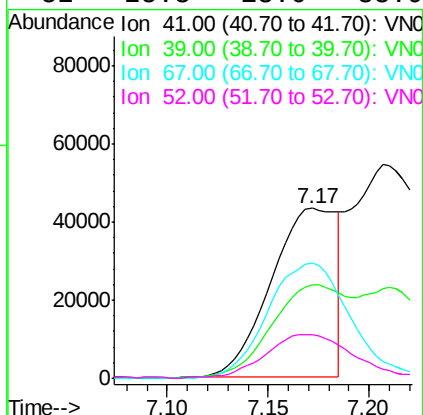
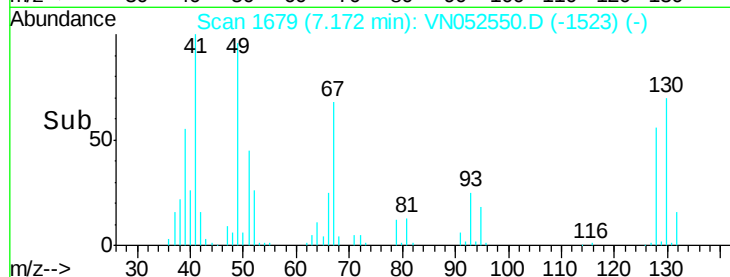
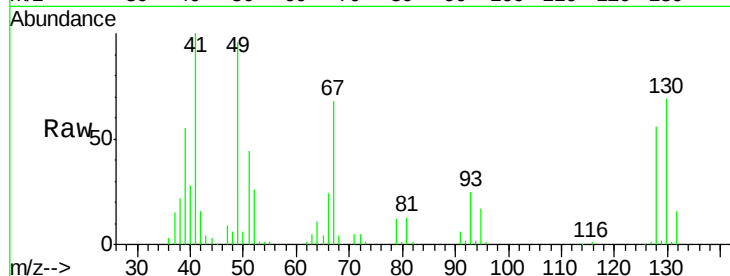
#35
Methacrylonitrile
Concen: 17.926 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.7	26.6	79.7	
67	68.3	32.3	96.9	
52	25.3	13.0	38.9	

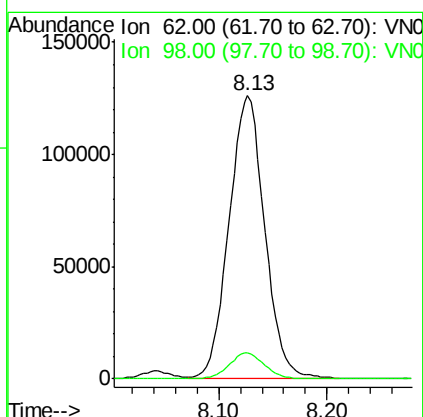
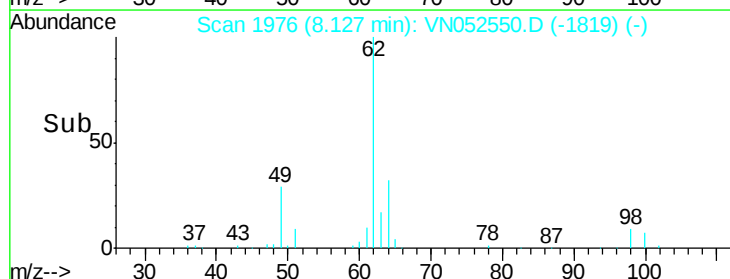
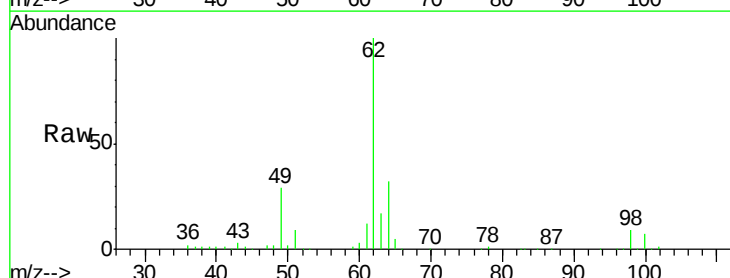
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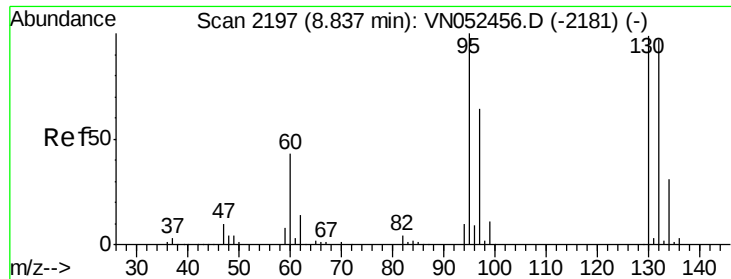
MMDadoda
11/29/2018 9:33:05 AM



#36
1,2-Dichloroethane
Concen: 19.396 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.2	7.4	11.2	





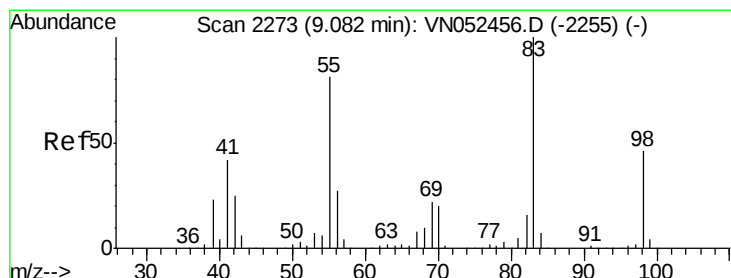
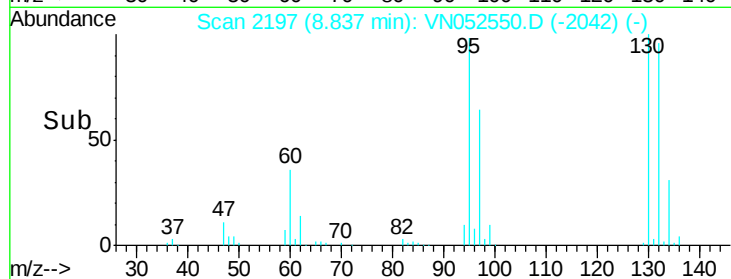
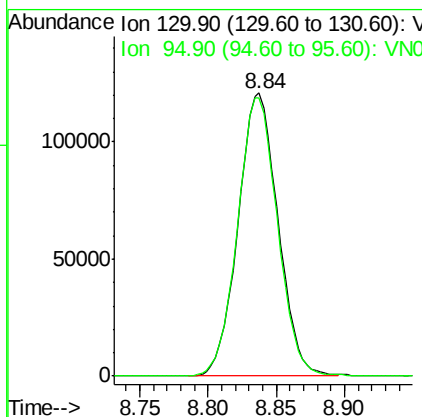
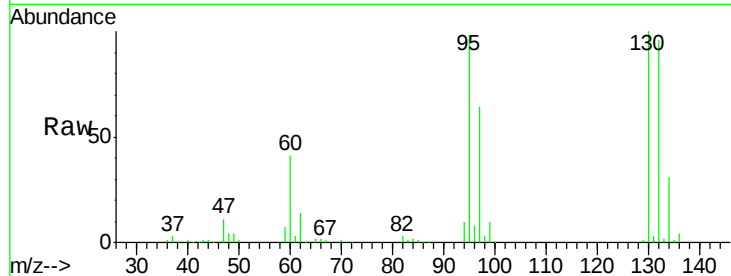
#37
 Trichloroethene
 Concen: 19.551 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion:130 Resp: 245161
 Ion Ratio Lower Upper
 130 100
 95 98.2 81.0 121.4

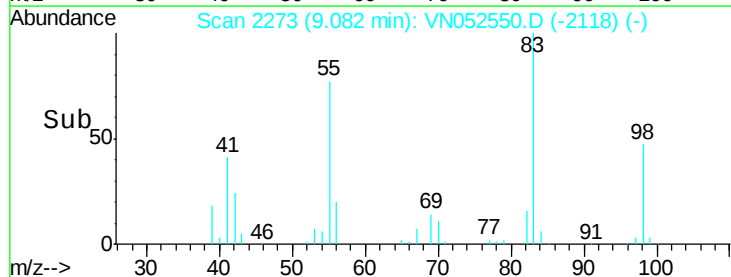
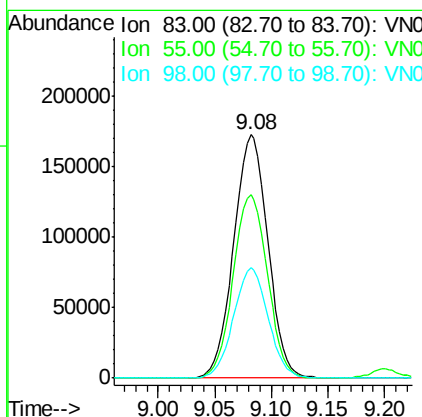
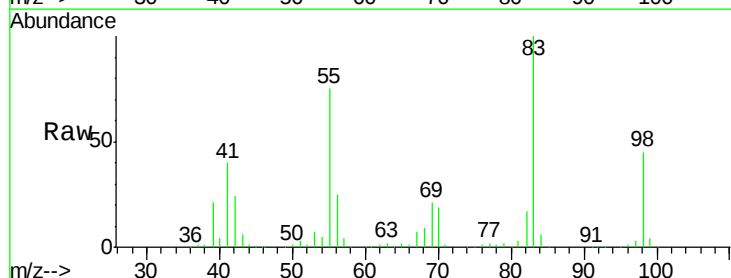
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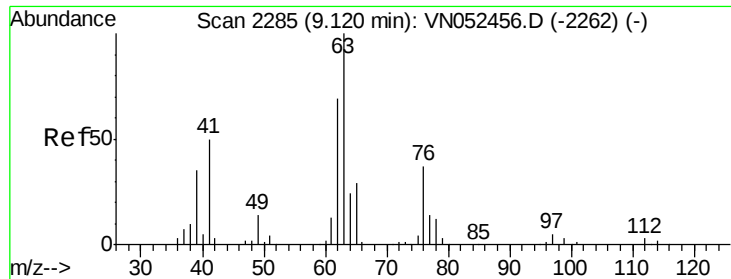
MMDadoda
 11/29/2018 9:33:05 AM



#38
 Methylcyclohexane
 Concen: 17.910 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Tgt Ion: 83 Resp: 364664
 Ion Ratio Lower Upper
 83 100
 55 75.6 39.8 119.4
 98 45.7 22.9 68.5





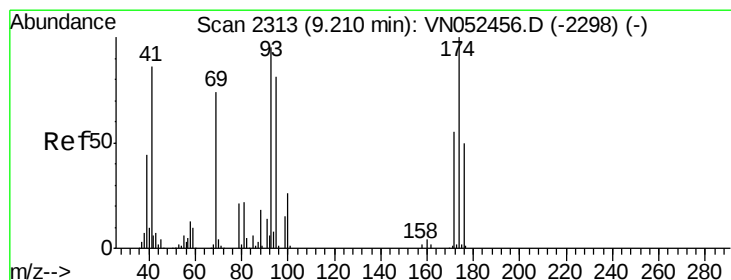
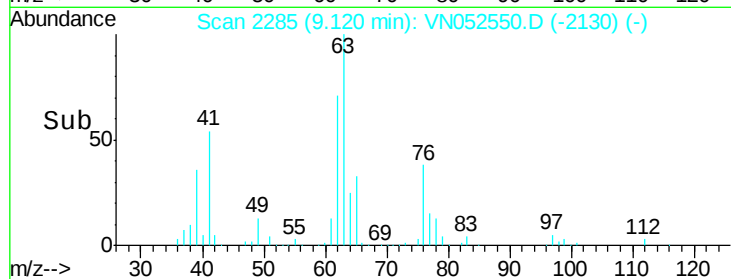
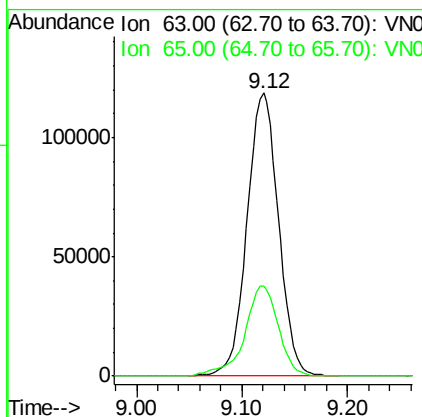
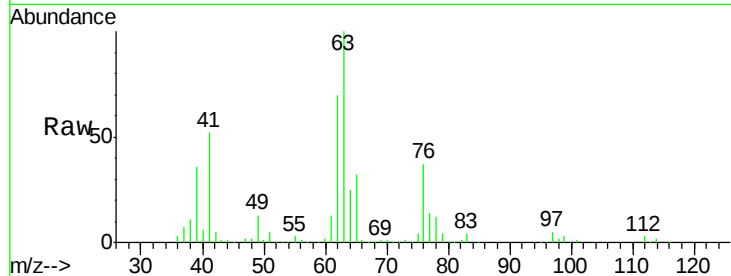
#39
 1,2-Dichloropropane
 Concen: 18.652 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.7	23.6	35.4

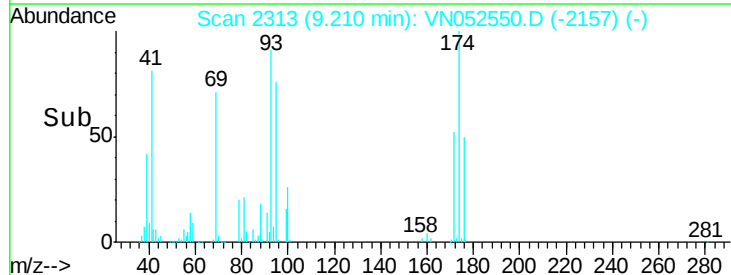
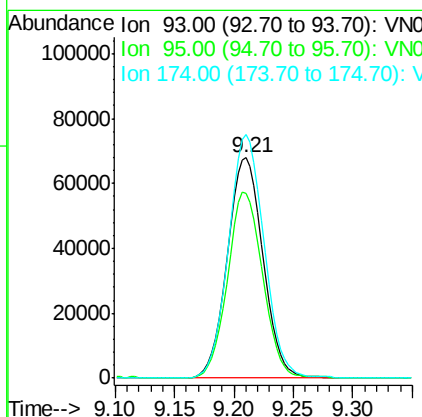
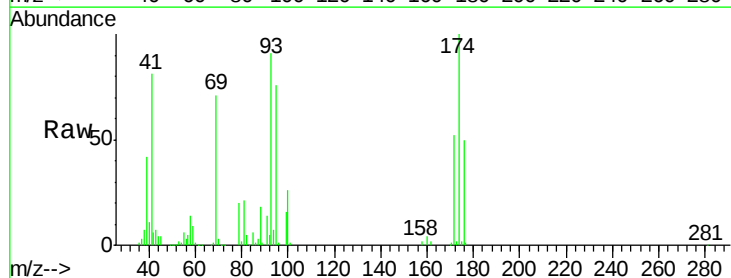
Manual Integrations
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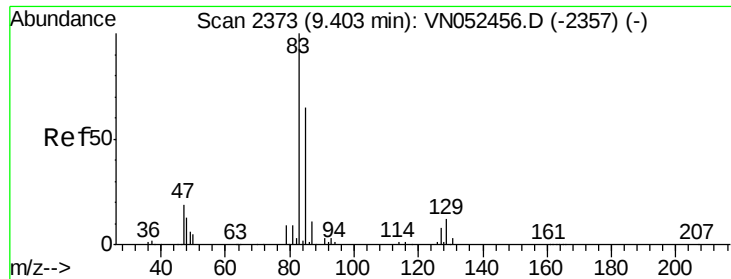
MMDadoda
 11/29/2018 9:33:05 AM



#40
 Dibromomethane
 Concen: 19.753 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.2	0.0	168.4
174	109.5	0.0	210.0





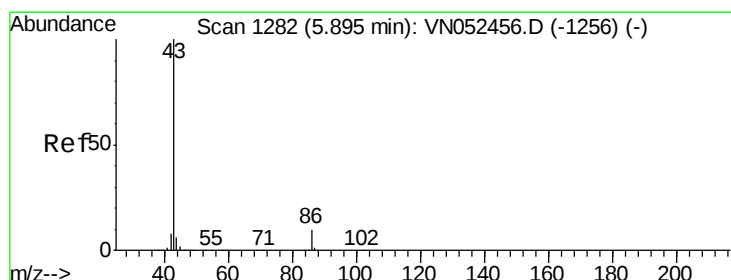
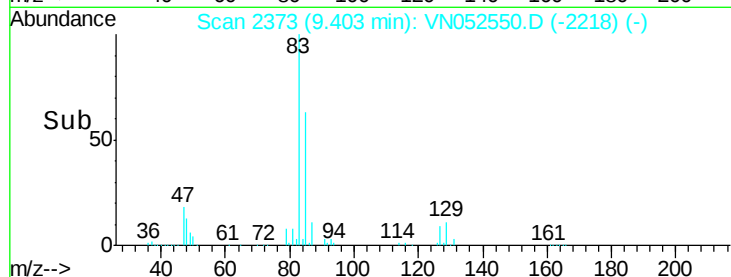
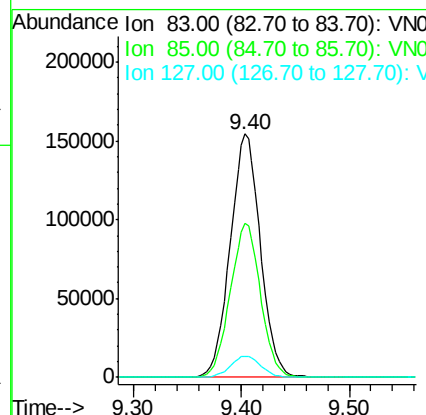
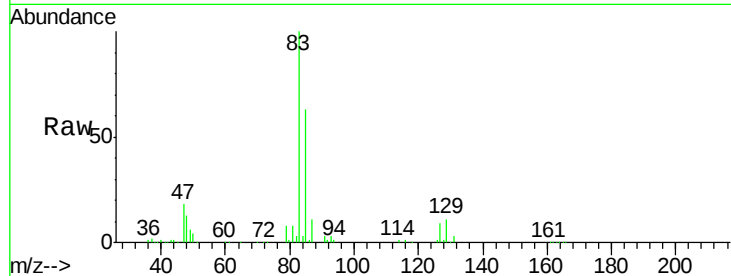
#41
Bromodichloromethane
Concen: 18.998 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	83	Resp	300676
Ion Ratio	100	Lower	Upper
83	100		
85	63.3	52.4	78.6
127	8.7	6.6	9.8

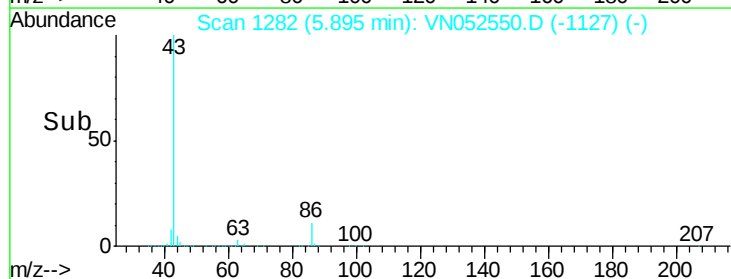
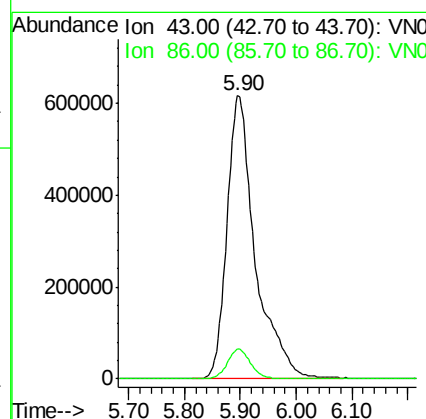
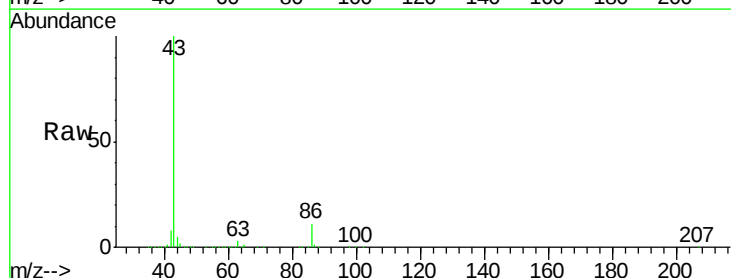
Manual Integrations
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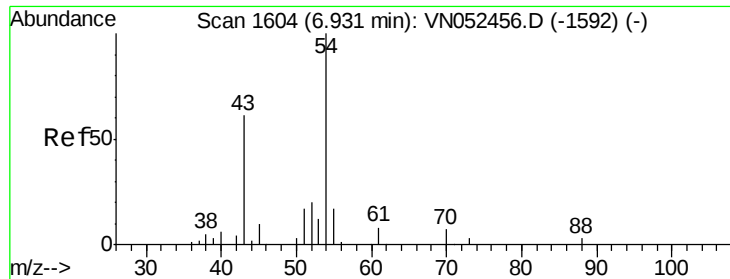
MMDadoda
11/29/2018 9:33:05 AM



#42
Vinyl Acetate
Concen: 91.537 ug/l
RT: 5.90 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion	43	Resp	2179817
Ion Ratio	100	Lower	Upper
43	100		
86	8.5	6.5	9.7





#43

Ethyl Acetate

Concen: 18.810 ug/l

RT: 6.93 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 43 Resp: 176034

Ion Ratio Lower Upper

43 100

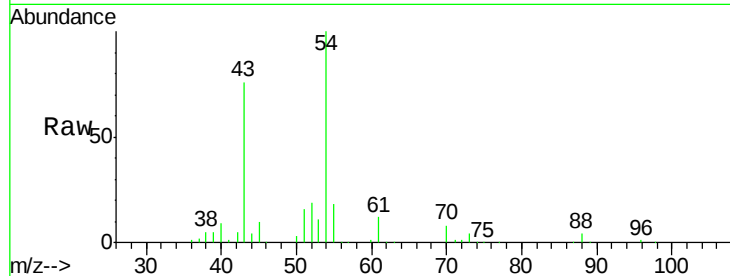
45 13.1 1.0 1.6#

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

150000

100000

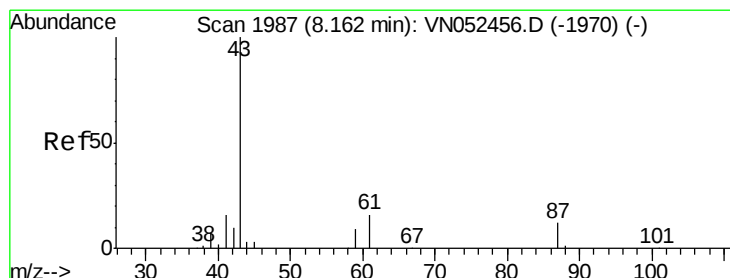
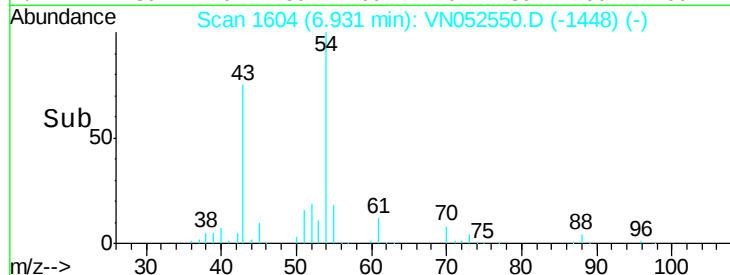
50000

0

6.85 6.90 6.95 7.00 7.05

6.93

Time-->



#44

Isopropyl Acetate

Concen: 19.836 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052550.D

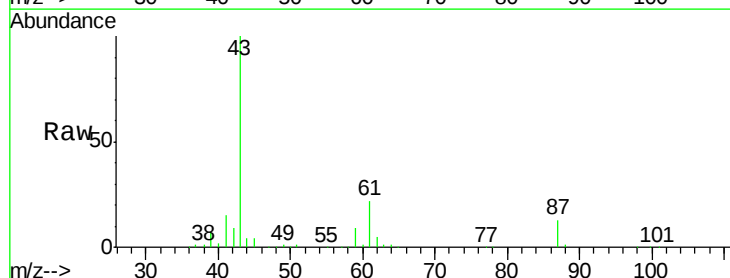
Acq: 29 Nov 2018 5:40

Tgt Ion: 43 Resp: 325579

Ion Ratio Lower Upper

43 100

61 20.4 16.0 24.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

150000

100000

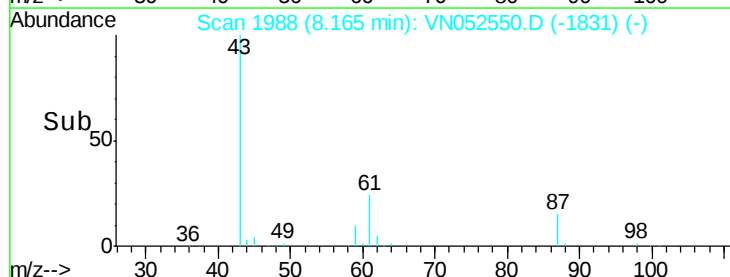
50000

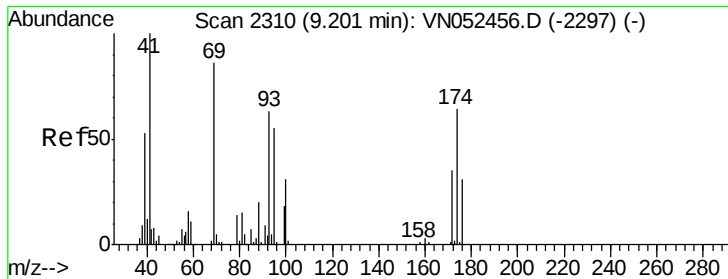
0

8.10 8.15 8.20

8.17

Time-->





#45

1,4-Dioxane

Concen: 420.961 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 88 Resp: 37799

Ion Ratio Lower Upper

88 100

43 32.2 29.5 44.3

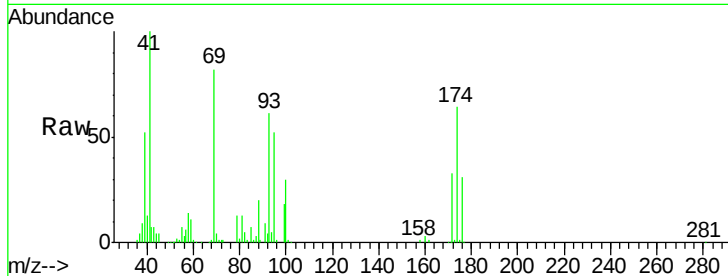
58 71.0 61.5 92.3

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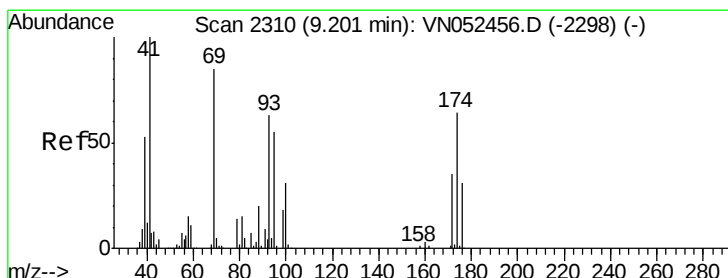
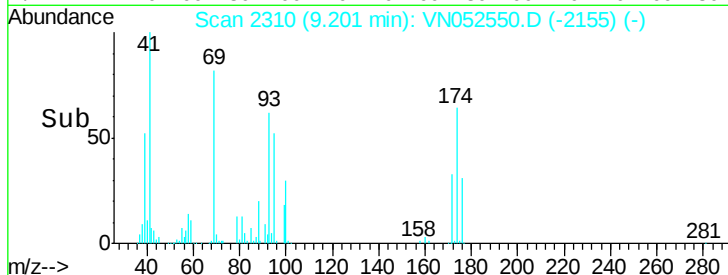
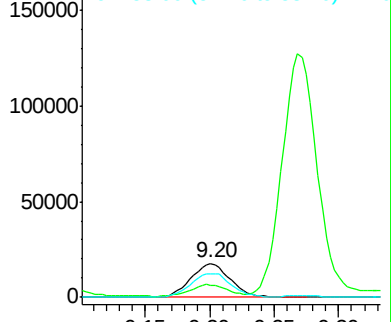
11/29/2018 9:33:05 AM



Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



#46

Methyl methacrylate

Concen: 19.272 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

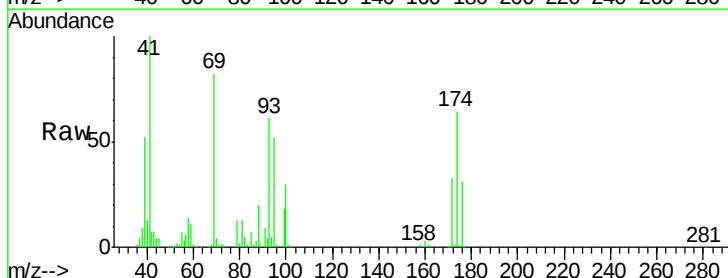
Tgt Ion: 41 Resp: 164238

Ion Ratio Lower Upper

41 100

69 83.0 42.5 127.6

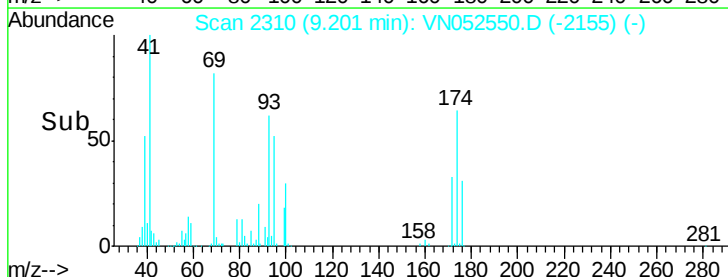
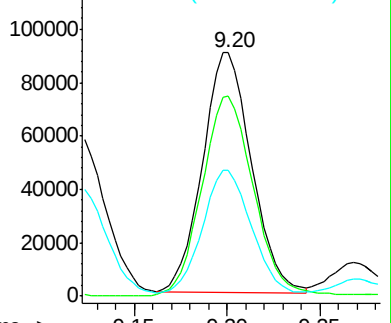
39 51.1 26.3 78.9

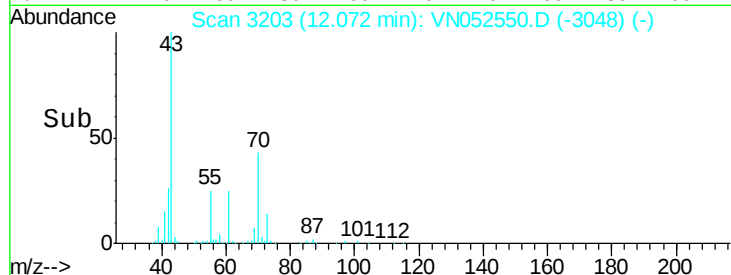
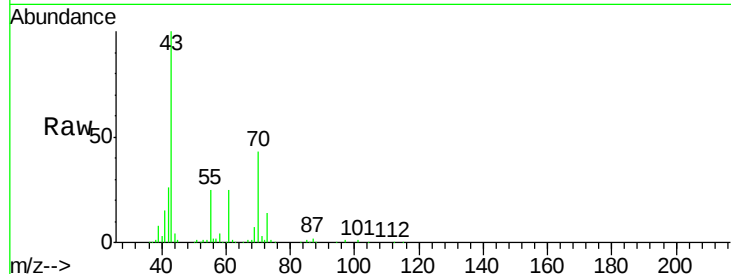
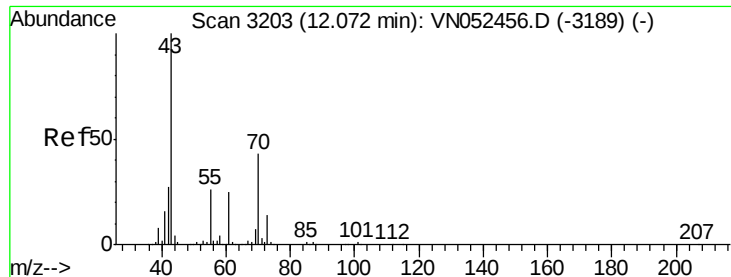


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





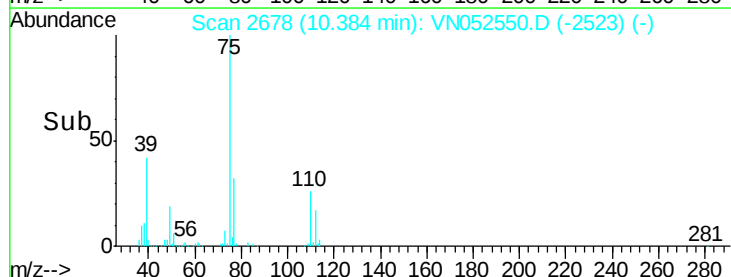
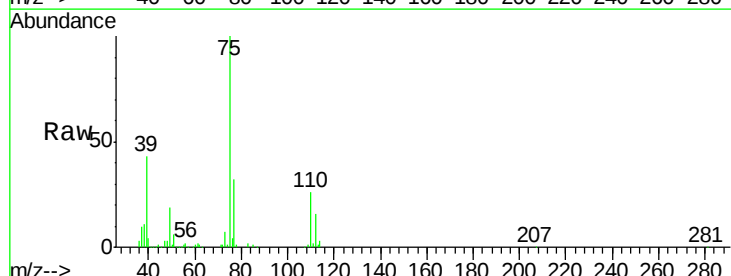
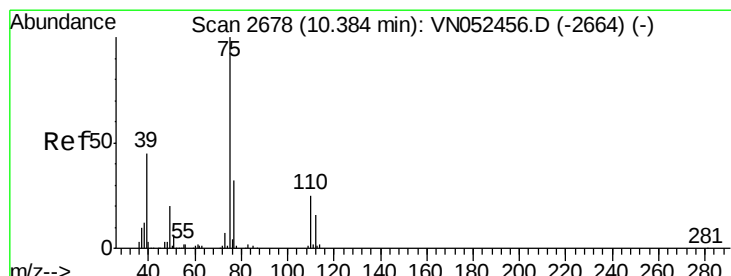
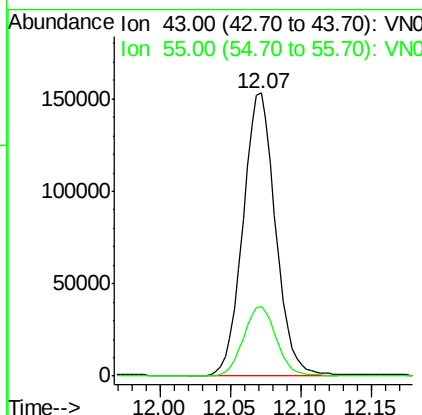
#47
n-amvl Acetate
Concen: 18.146 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tot Ion: 43 Resp: 246950
Ion Ratio Lower Upper
43 100
55 25.1 21.1 31.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

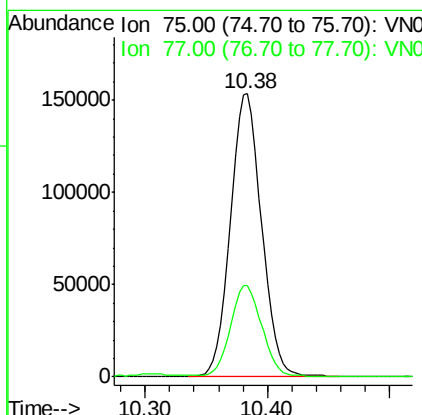
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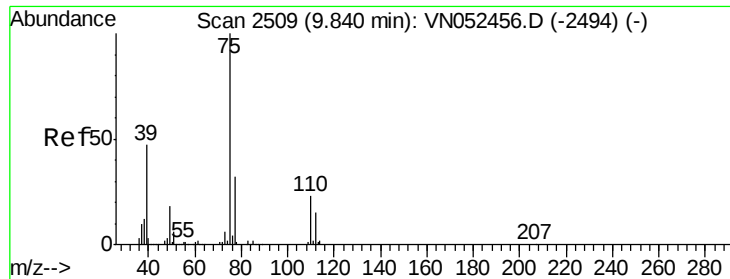
MMDadoda
11/29/2018 9:33:05 AM



#48
t-1,3-Dichloropropene
Concen: 17.808 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion: 75 Resp: 273269
Ion Ratio Lower Upper
75 100
77 32.1 25.6 38.4





#49

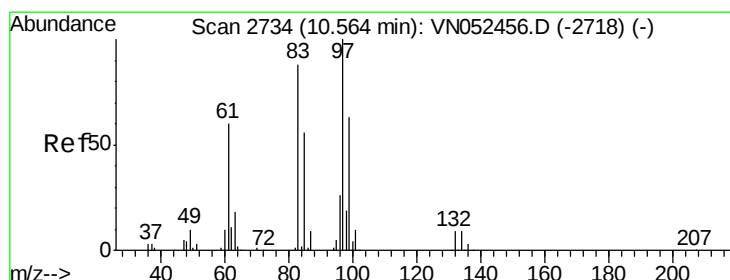
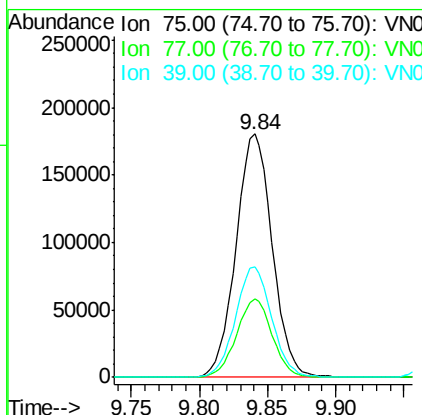
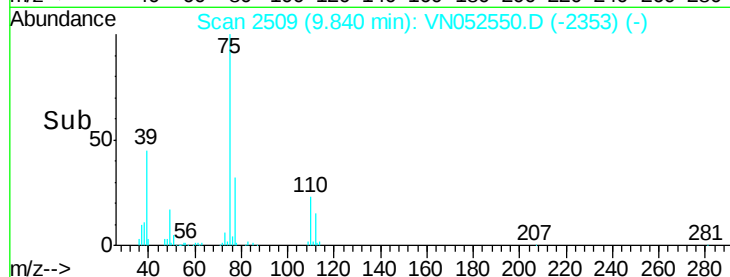
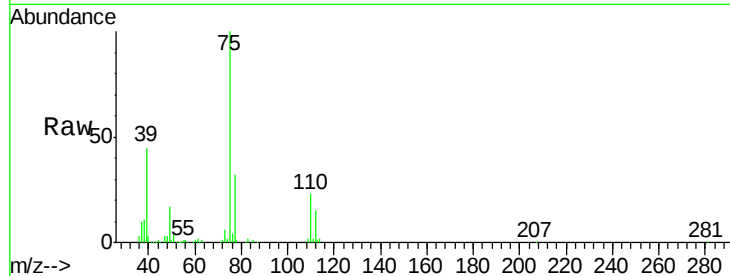
cis-1,3-Dichloropropene
 Concen: 17.803 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.4	38.0
39	45.2	37.3	55.9

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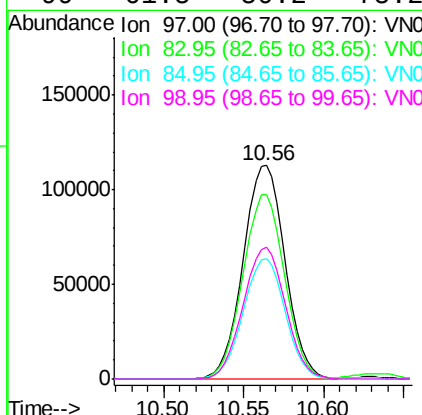
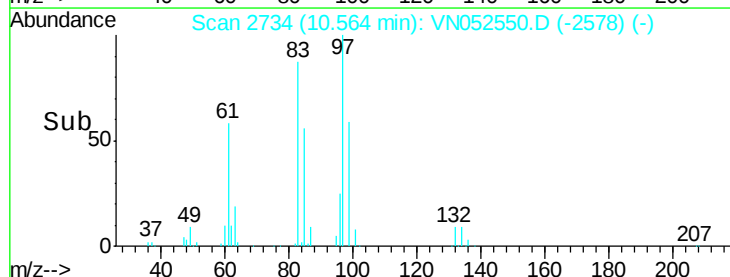
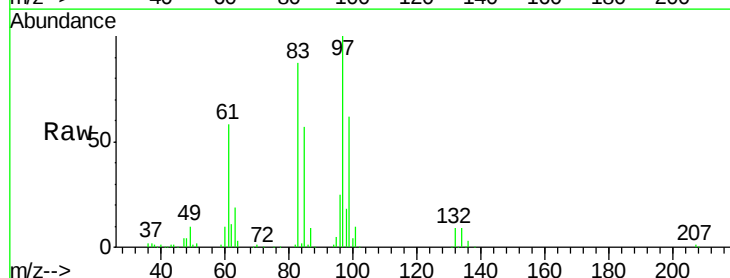
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 11/29/2018 9:33:05 AM

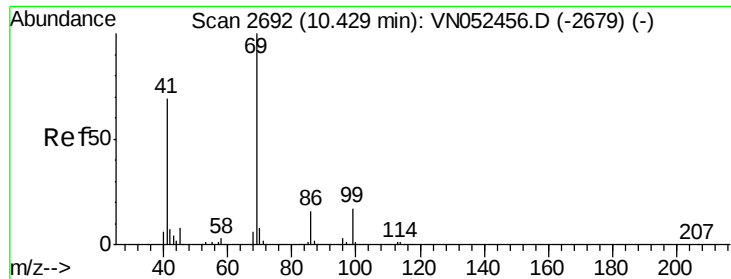


#50

1,1,2-Trichloroethane
 Concen: 19.920 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.6	70.4	105.6
85	56.5	45.0	67.6
99	61.5	50.2	75.2





#51

Ethyl methacrylate

Concen: 19.523 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

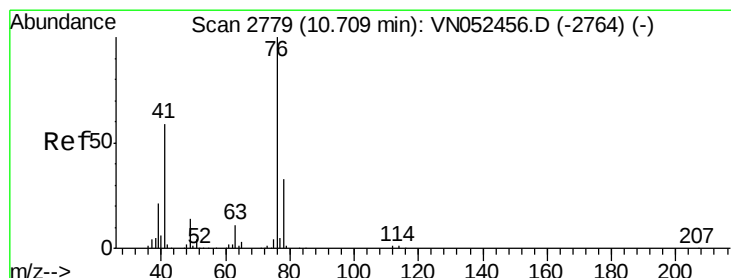
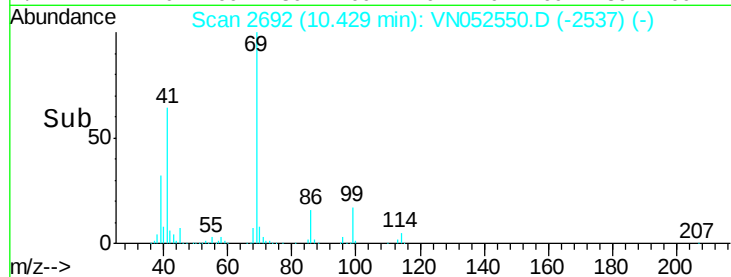
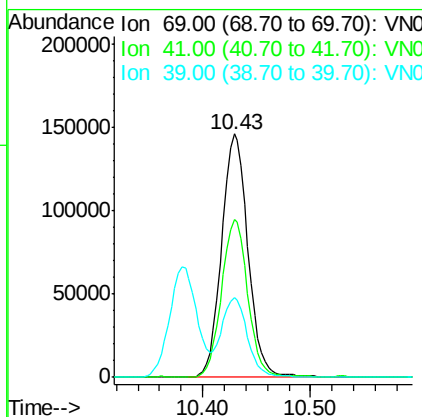
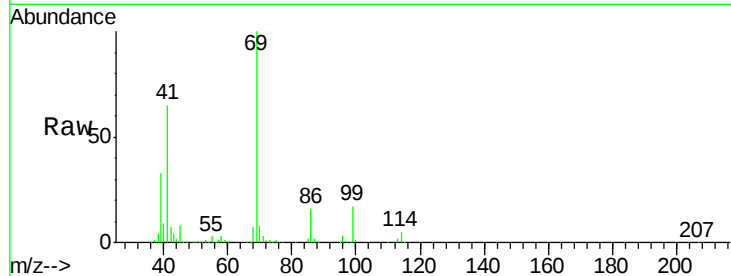
ClientSampleId :

VSTDCCC020EC

Tot Ion:	69	Resp:	248971
Ion Ratio	Lower	Upper	
69	100		
41	64.3	34.4	103.3
39	32.3	16.4	49.2

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 18.994 ug/l

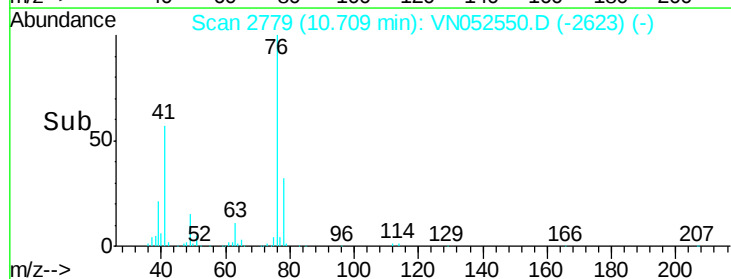
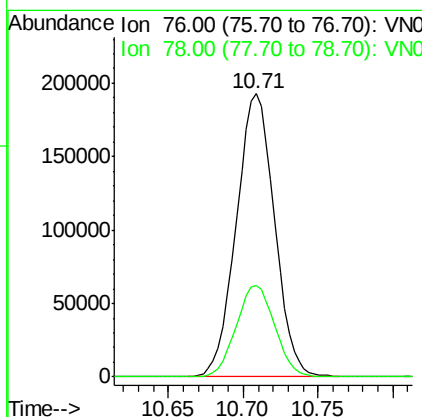
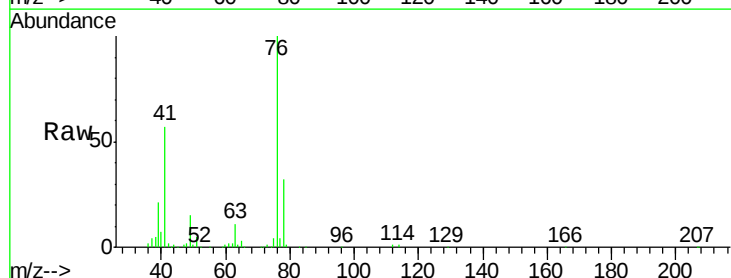
RT: 10.71 min Scan# 2779

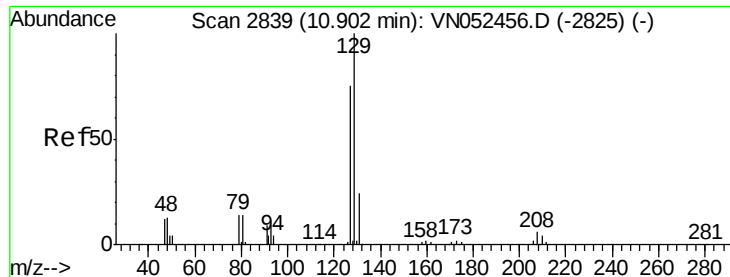
Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Tgt Ion:	76	Resp:	343302
Ion Ratio	Lower	Upper	
76	100		
78	32.7	0.0	64.8





#53

Dibromochloromethane

Concen: 19.199 ug/l

RT: 10.90 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:129 Resp: 214632

Ion Ratio Lower Upper

129 100

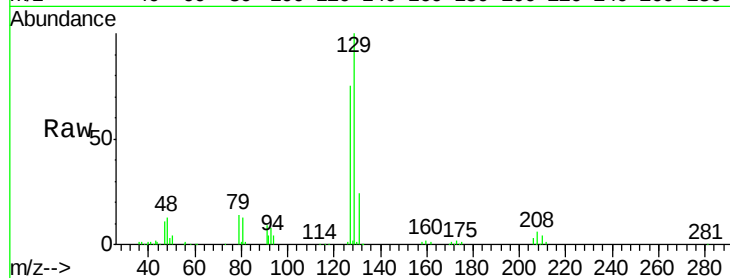
127 75.9 37.6 112.8

Manual Integrations

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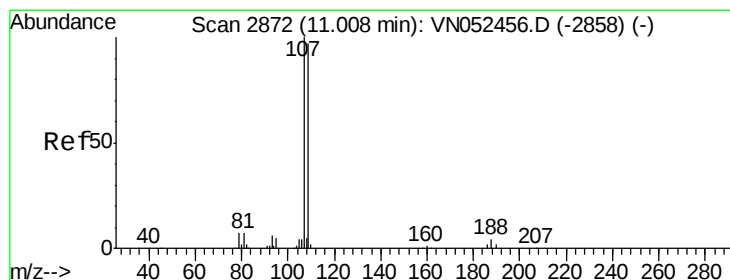
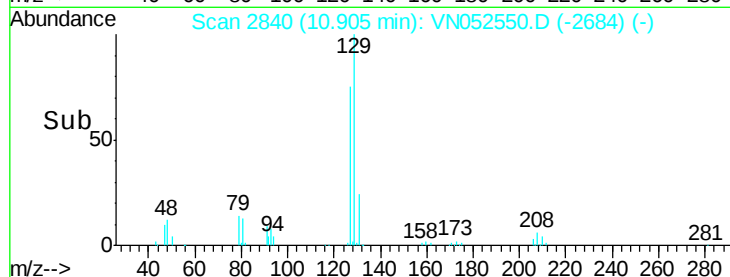
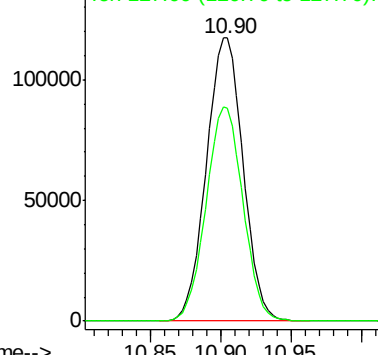
MMDadoda

11/29/2018 9:33:05 AM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 19.622 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN052550.D

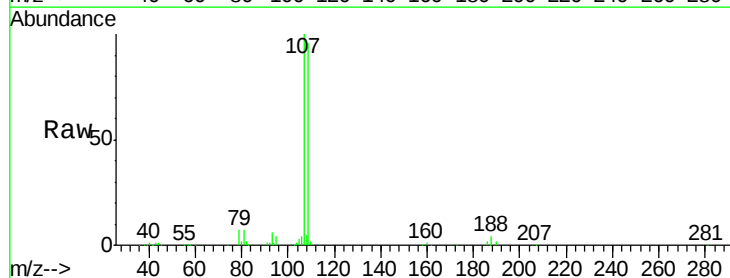
Acq: 29 Nov 2018 5:40

Tgt Ion:107 Resp: 194691

Ion Ratio Lower Upper

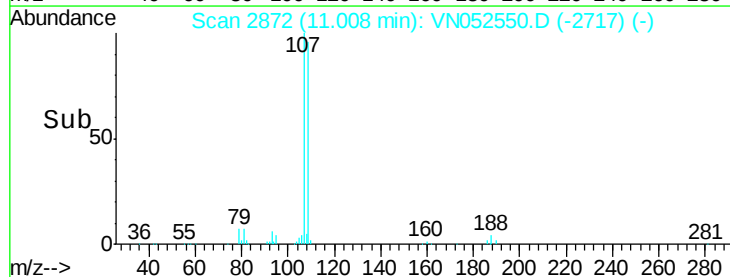
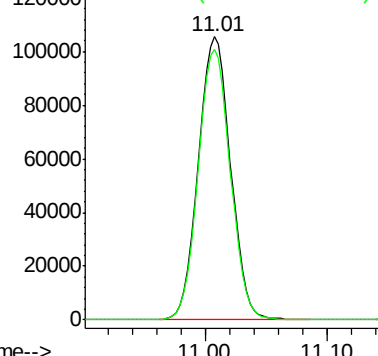
107 100

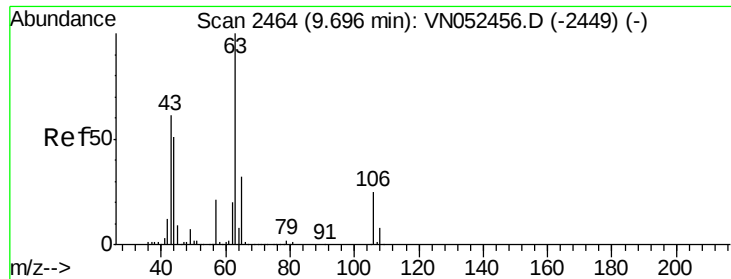
109 95.3 77.1 115.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

2-Chloroethyl vinyl ether

Concen: 93.144 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

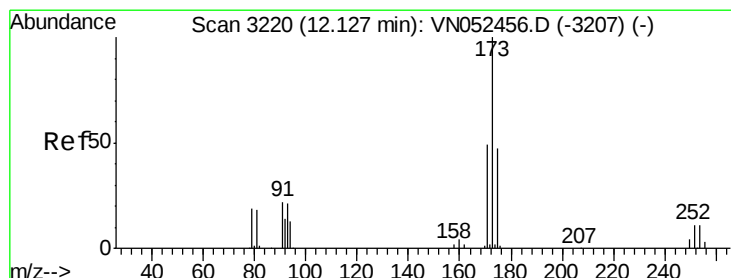
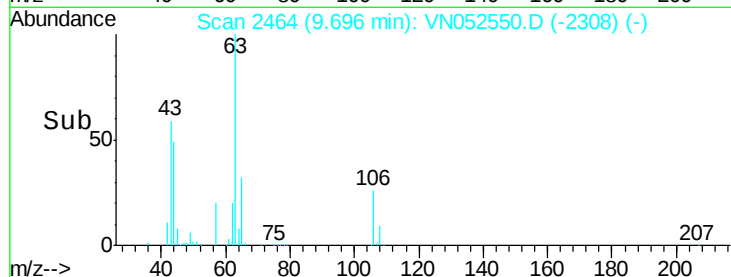
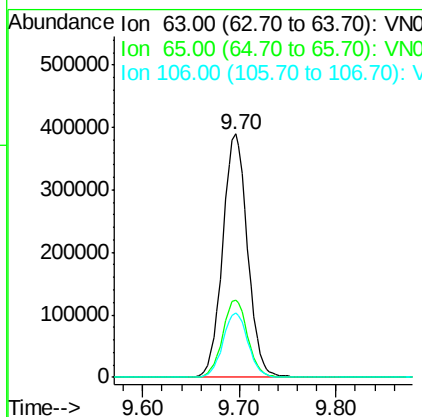
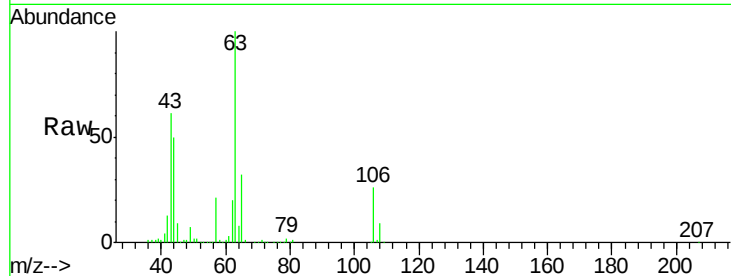
ClientSampleId :

VSTDCCC020EC

Tot Ion:	63	Resp:	695318
Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.4	38.2
106	26.8	20.4	30.6

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#56

Bromoform

Concen: 18.769 ug/l

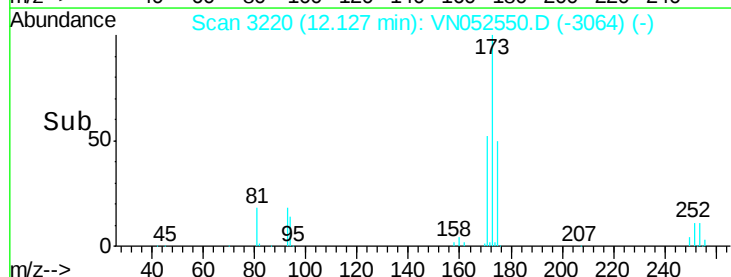
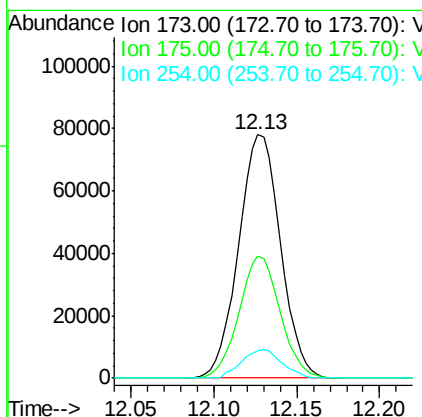
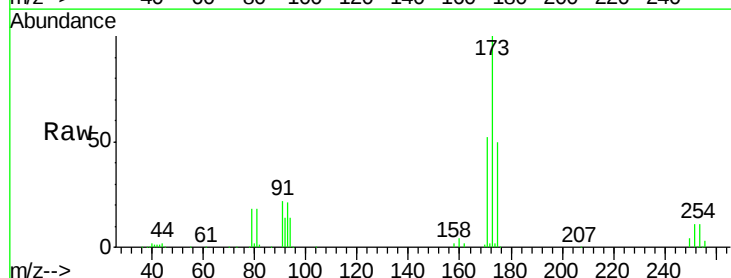
RT: 12.13 min Scan# 3220

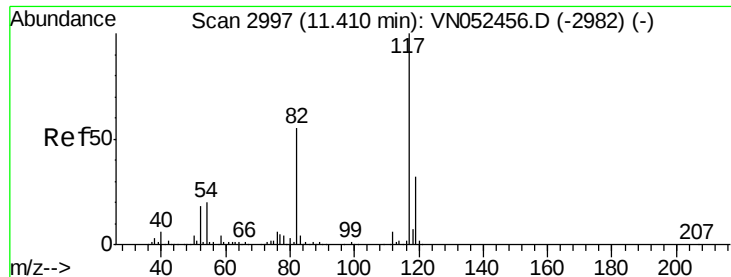
Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Tgt Ion:	173	Resp:	137148
Ion	Ratio	Lower	Upper
173	100		
175	49.0	38.7	58.1
254	11.2	8.4	12.6





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

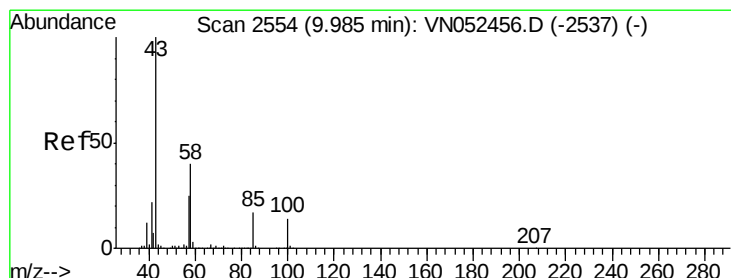
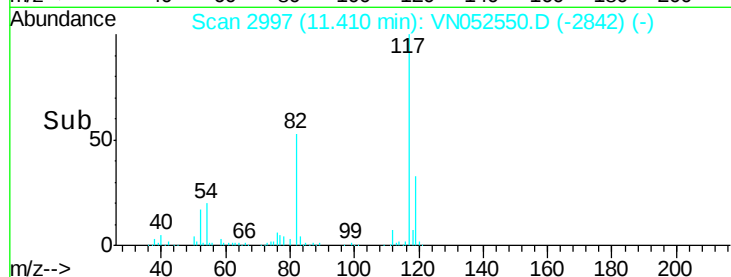
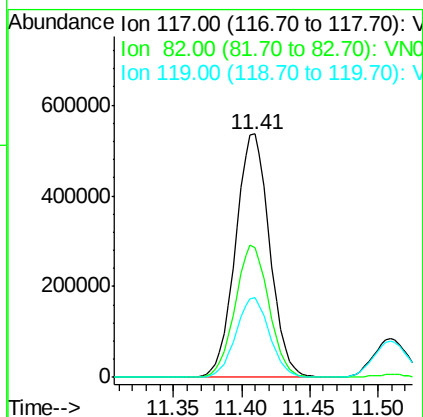
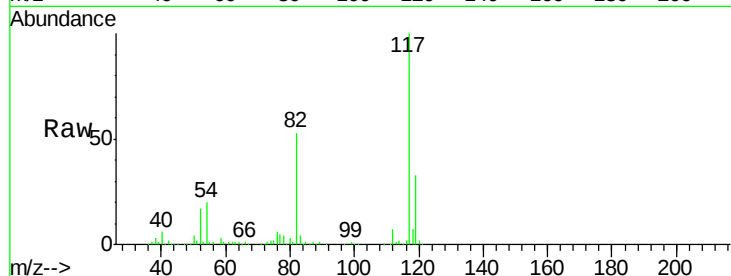
ClientSampleId :

VSTDCCC020EC

Tot Ion:	117	Resp:	931525
Ion Ratio	Lower	Upper	
117	100		
82	53.9	44.2	66.2
119	32.3	25.4	38.2

Manual Integrations
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11/29/2018 9:33:05 AM



#58

4-Methyl-2-Pentanone

Concen: 99.351 ug/l

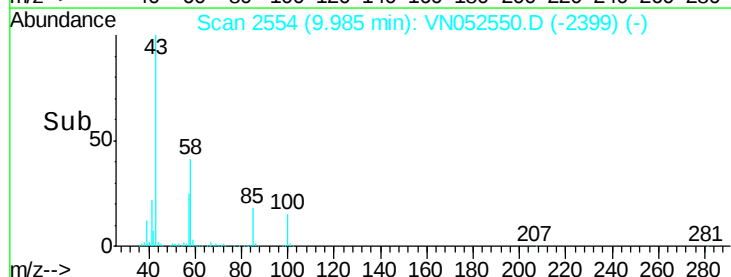
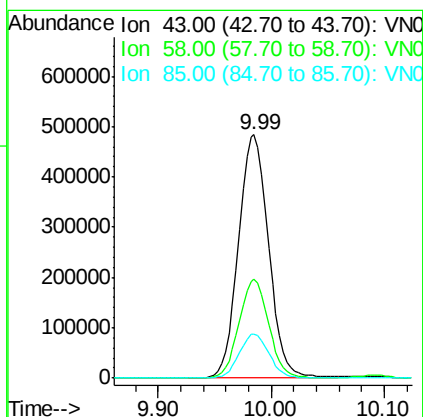
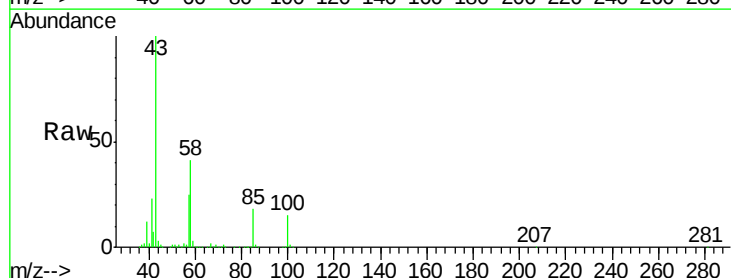
RT: 9.99 min Scan# 2554

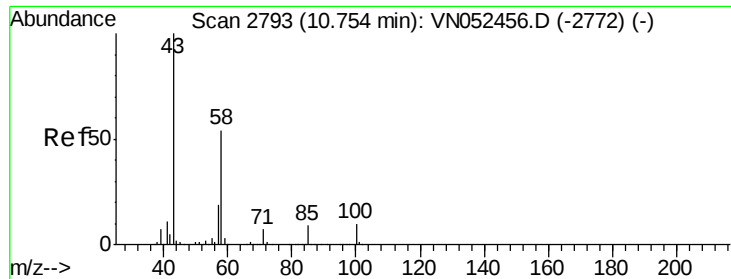
Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Tgt Ion:	43	Resp:	897232
Ion Ratio	Lower	Upper	
43	100		
58	40.2	31.6	47.4
85	17.9	13.3	19.9





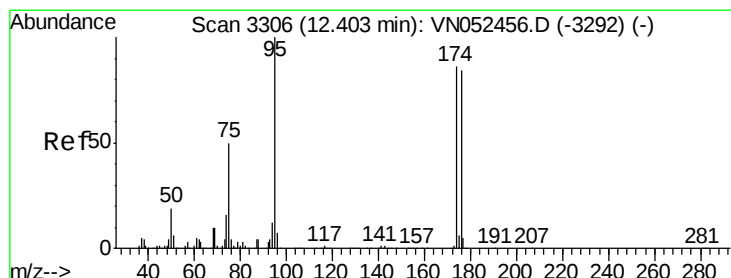
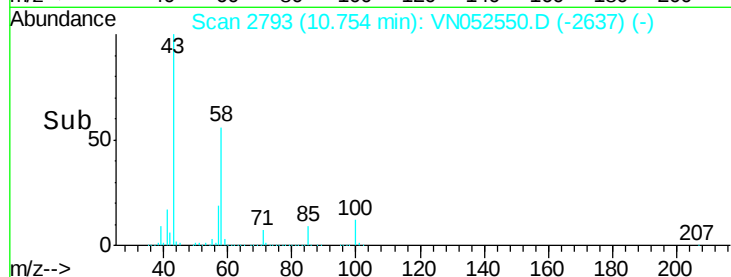
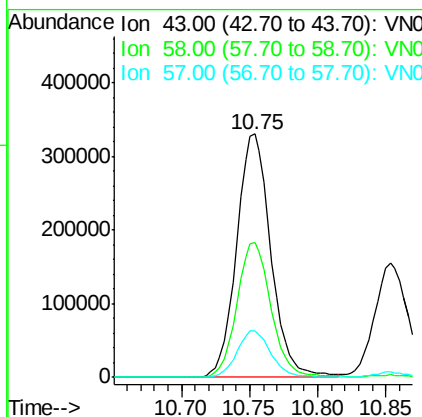
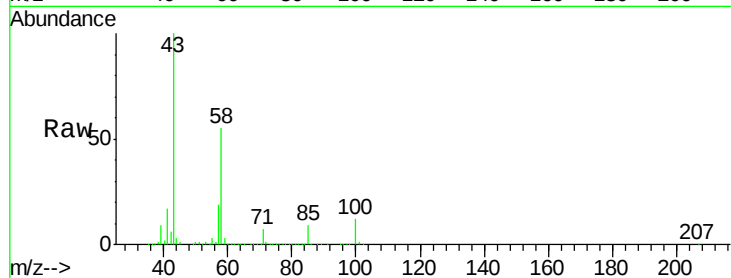
#59
2-Hexanone
Concen: 92.907 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.7	43.2	64.8
57	19.1	14.9	22.3

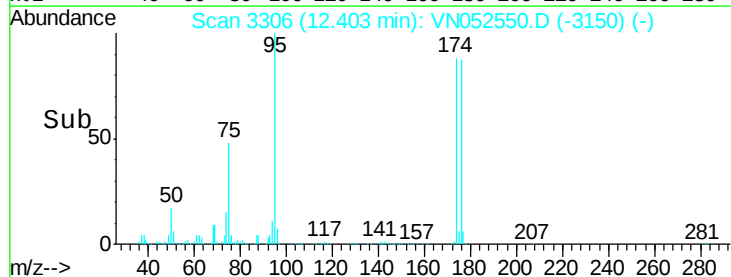
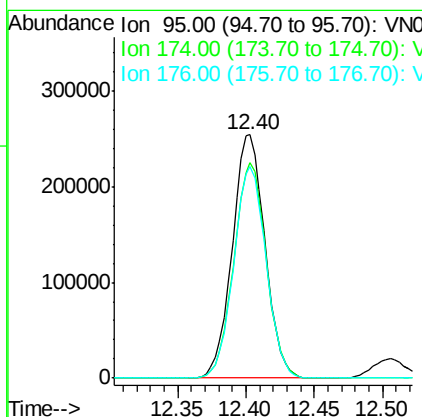
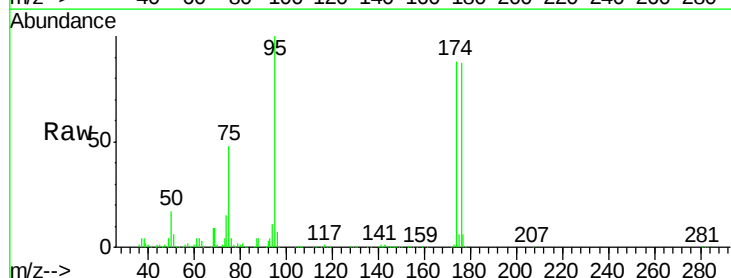
Manual Integrations
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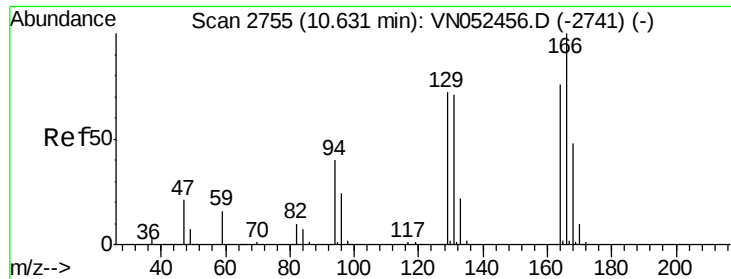
MMDadoda
11/29/2018 9:33:05 AM



#60
4-Bromofluorobenzene
Concen: 92.907 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.7	67.9	101.9
176	86.0	66.4	99.6





#61

Tetrachloroethene

Concen: 21.233 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:164 Resp: 243603

Ion Ratio Lower Upper

164 100

166 130.4 104.6 157.0

129 91.9 75.3 112.9

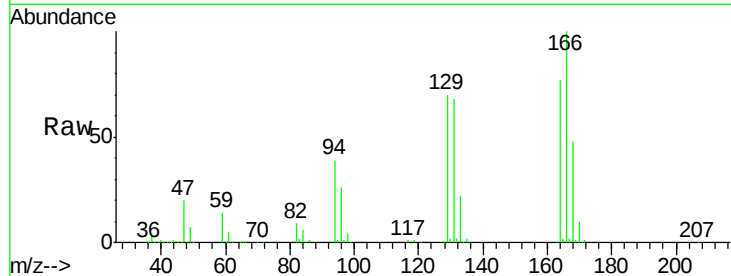
131 88.0 74.3 111.5

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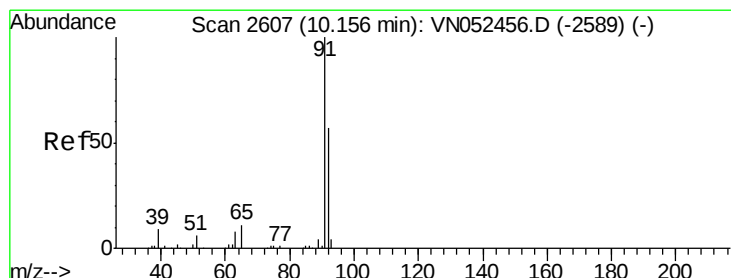
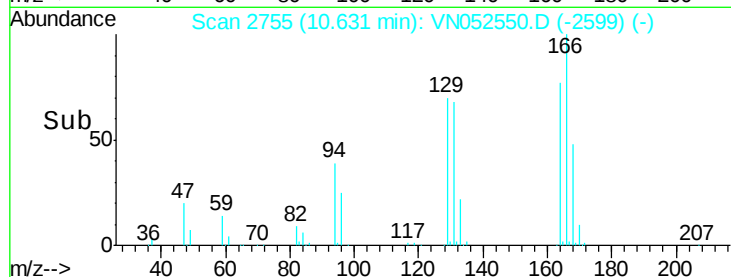
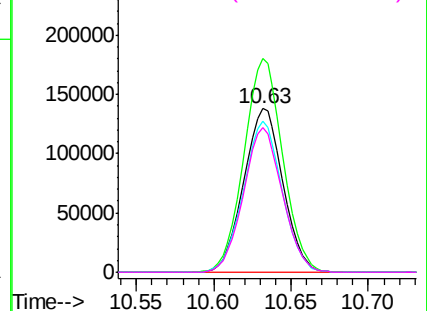


Abundance Ion 163.85 (163.55 to 164.55): V

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: 19.696 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052550.D

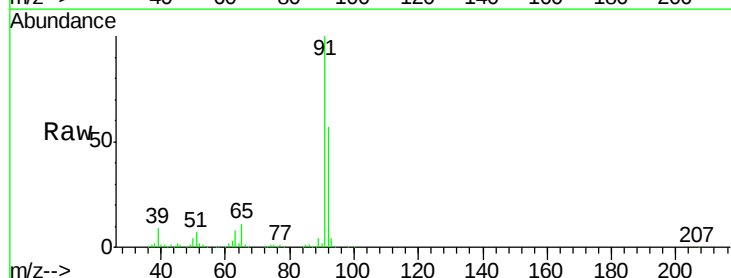
Acq: 29 Nov 2018 5:40

Tgt Ion: 91 Resp: 1011457

Ion Ratio Lower Upper

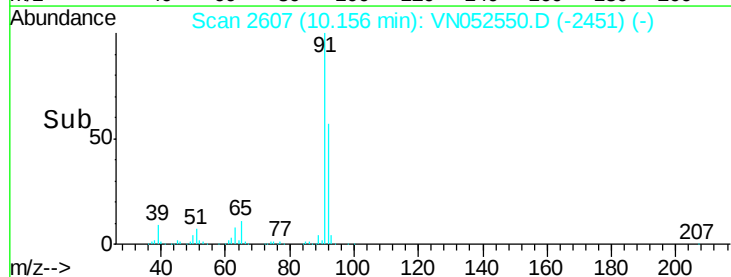
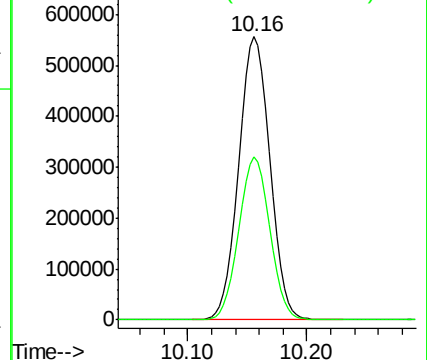
91 100

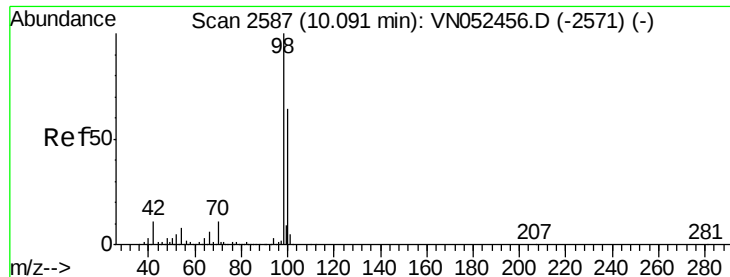
92 57.4 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 92.00 (91.70 to 92.70): VNO





#63

Toluene-d8

Concen: 19.696 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 98 Resp: 1290509

Ion Ratio Lower Upper

98 100

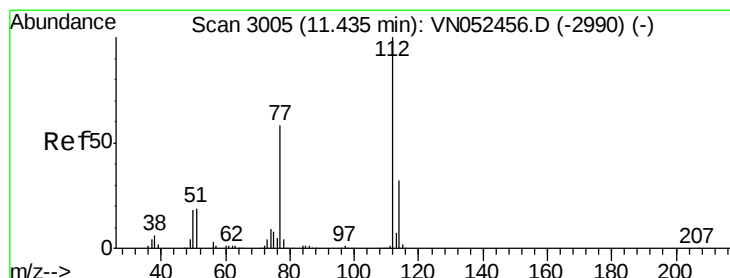
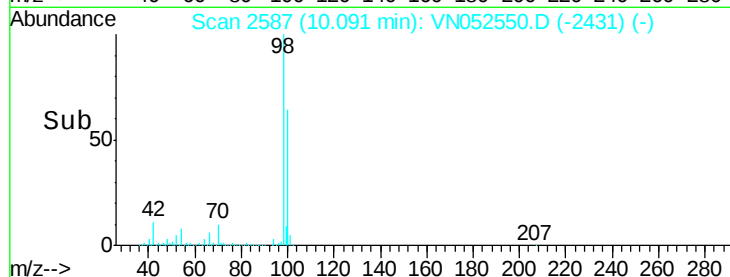
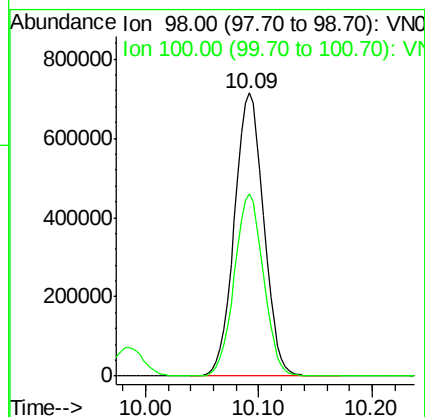
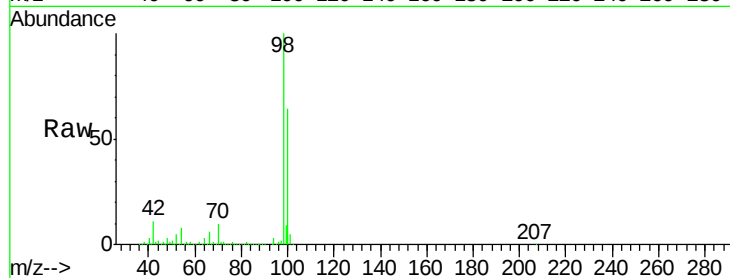
100 63.8 51.1 76.7

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#64

Chlorobenzene

Concen: 19.688 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. -0.00 min

Lab File: VN052550.D

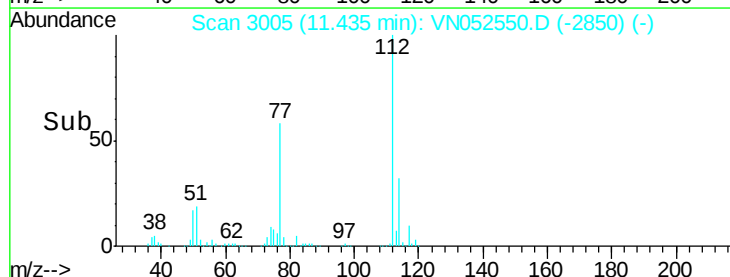
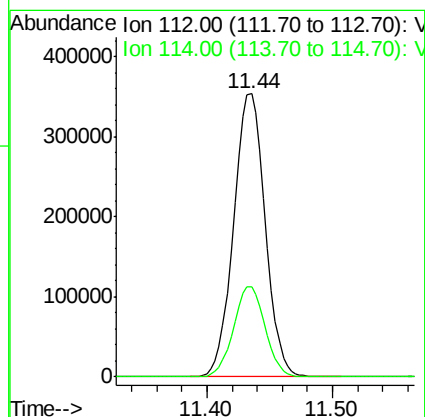
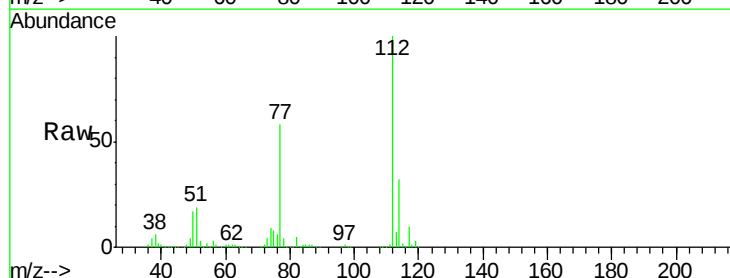
Acq: 29 Nov 2018 5:40

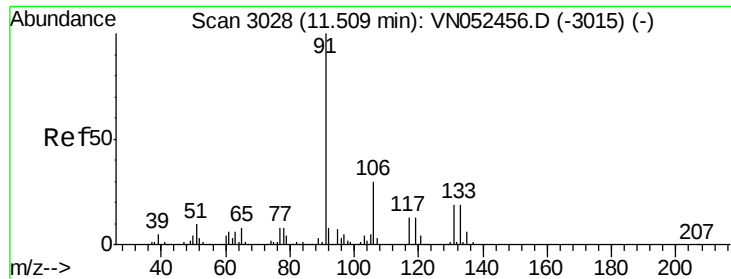
Tgt Ion: 112 Resp: 617086

Ion Ratio Lower Upper

112 100

114 31.8 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 19.685 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

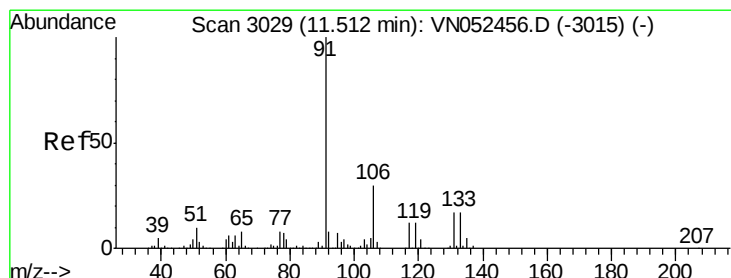
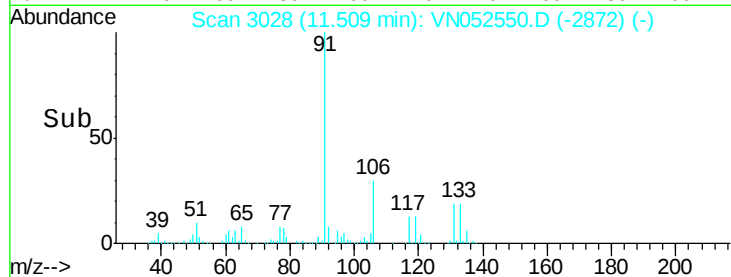
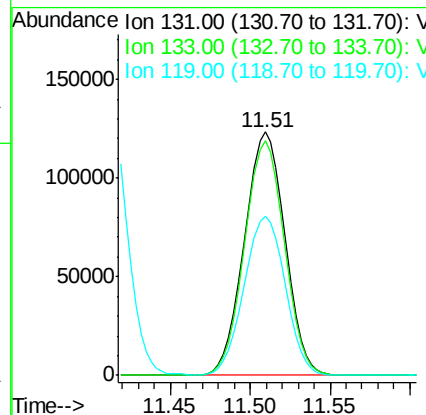
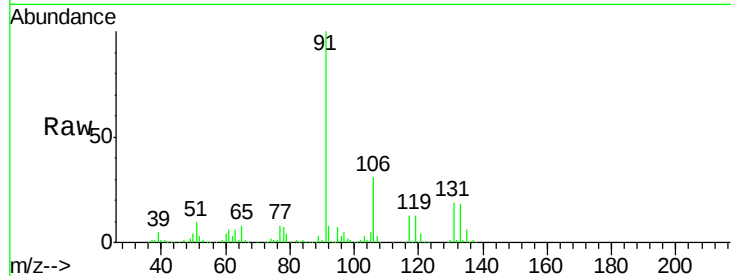
ClientSampleId :

VSTDCCC020EC

Tot Ion:	131	Resp:	214170
Ion Ratio	Lower	Upper	
131	100		
133	94.6	0.0	193.4
119	66.2	0.0	133.0

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#66

Ethyl Benzene

Concen: 19.502 ug/l

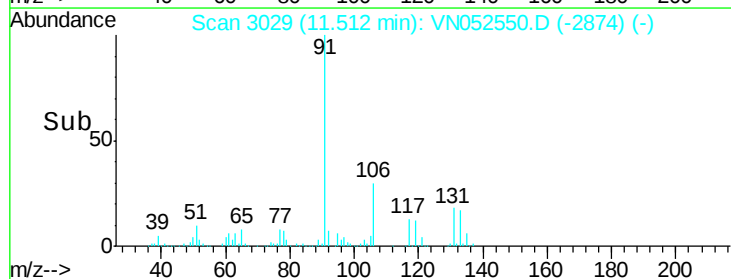
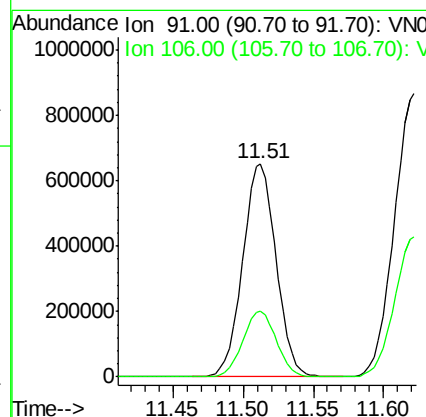
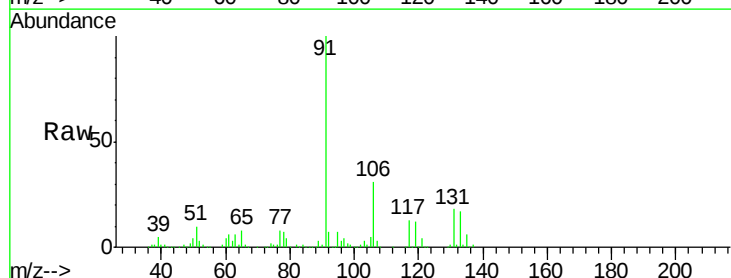
RT: 11.51 min Scan# 3029

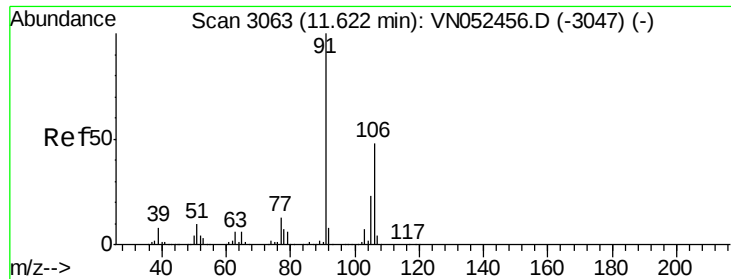
Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Tgt Ion:	91	Resp:	1079366
Ion Ratio	Lower	Upper	
91	100		
106	30.8	24.3	36.5





#67

m/p-Xylenes

Concen: 39.490 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:106 Resp: 814254

Ion Ratio Lower Upper

106 100

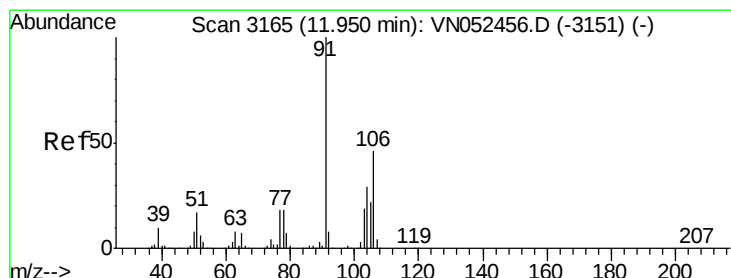
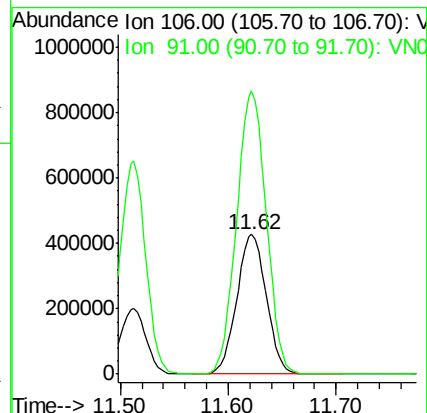
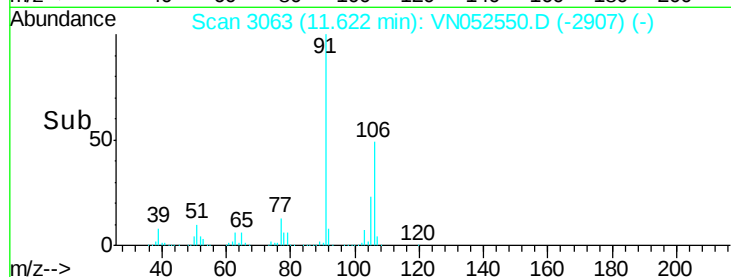
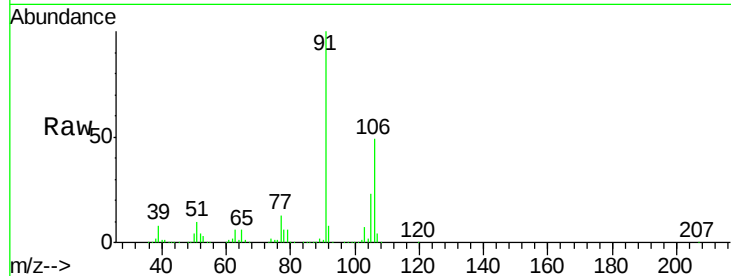
91 204.1 163.9 245.9

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#68

o-Xylene

Concen: 19.941 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. -0.00 min

Lab File: VN052550.D

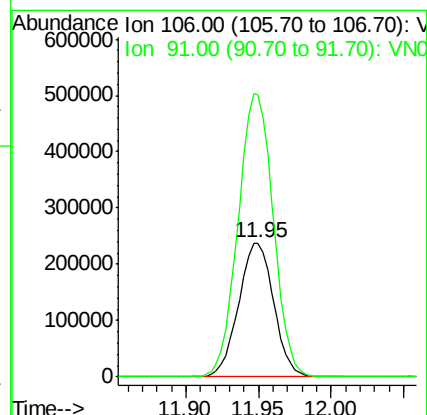
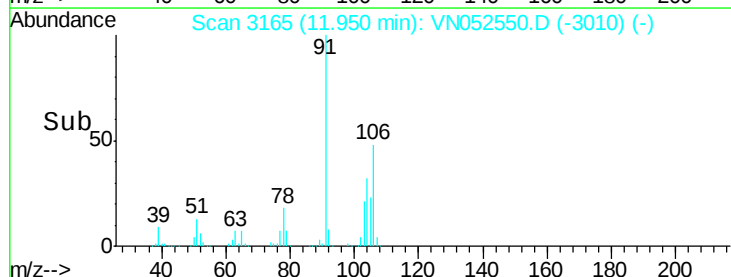
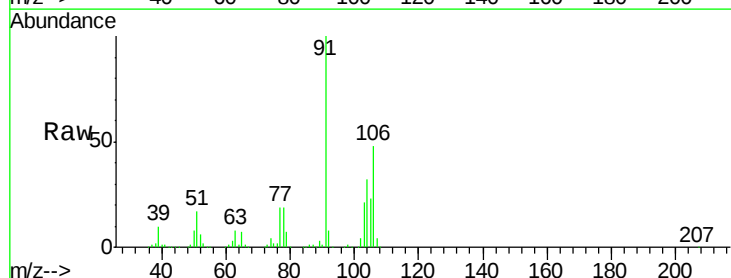
Acq: 29 Nov 2018 5:40

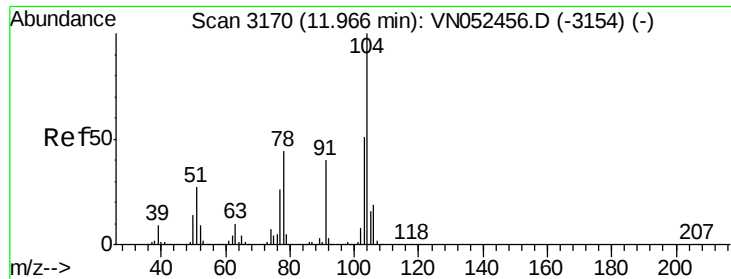
Tgt Ion:106 Resp: 399079

Ion Ratio Lower Upper

106 100

91 212.2 107.8 323.4





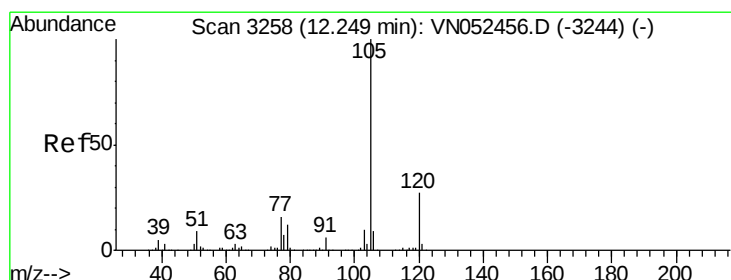
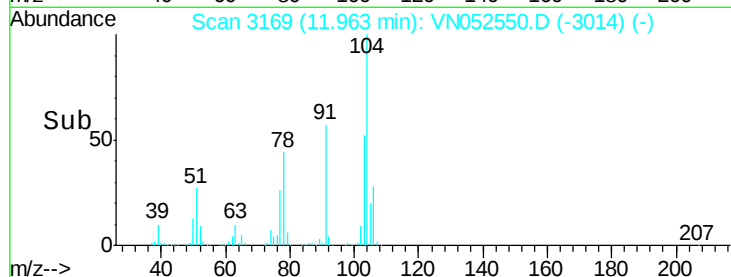
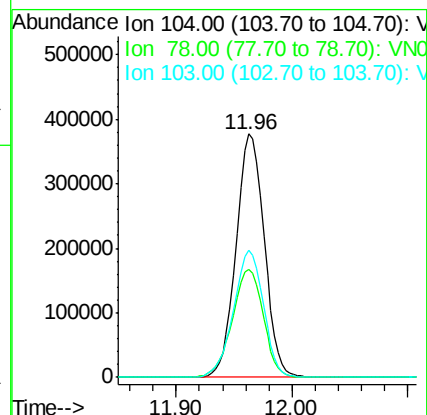
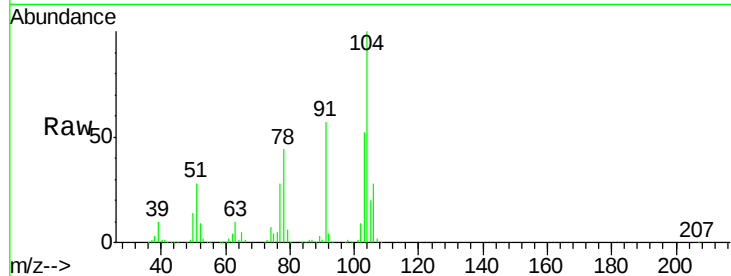
#69
Stvrene
Concen: 19.570 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.0	39.3	58.9
103	55.7	44.6	66.8

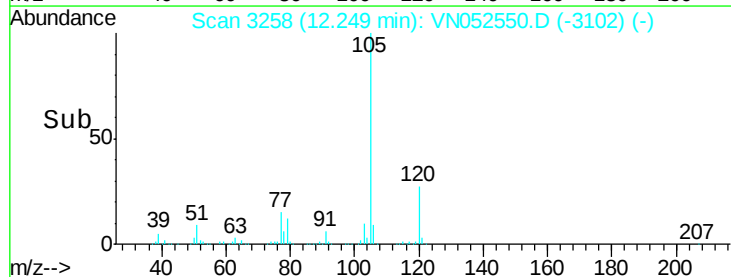
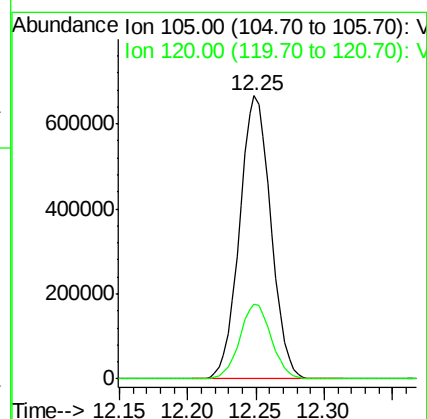
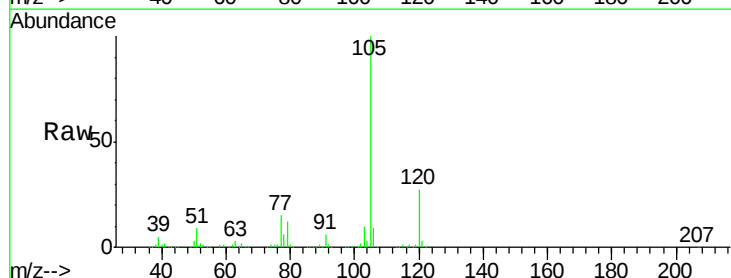
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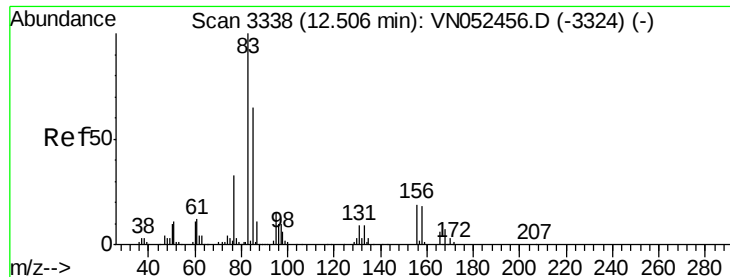
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#70
Isopropylbenzene
Concen: 19.893 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.6	18.6	34.6





#71

1,1,2,2-Tetrachloroethane

Concen: 19.831 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 83 Resp: 229708

Ion Ratio Lower Upper

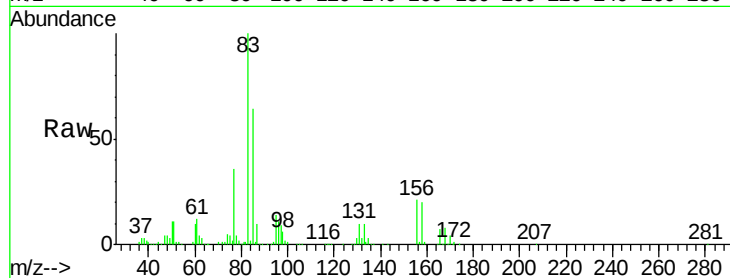
83 100

131 10.0 4.9 14.6

85 63.7 32.2 96.6

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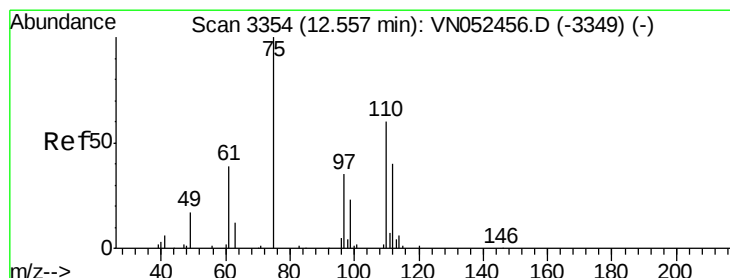
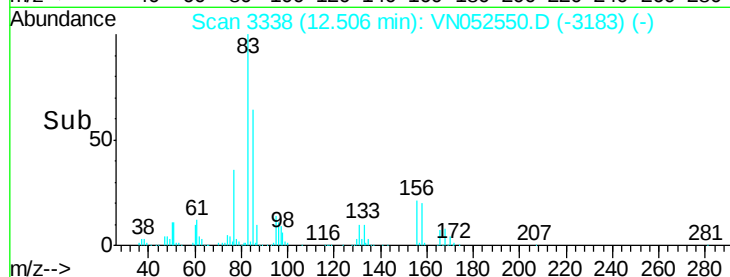
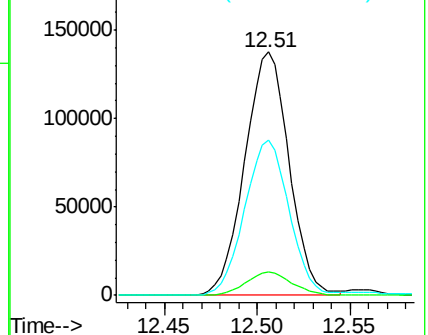
MMDadoda
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Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 131.00 (130.70 to 131.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#72

1,2,3-Trichloropropane

Concen: 20.788 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN052550.D

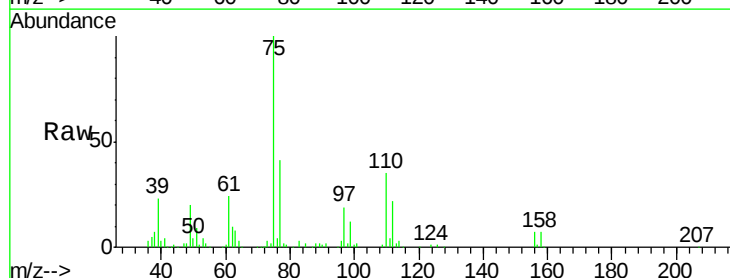
Acq: 29 Nov 2018 5:40

Tgt Ion: 75 Resp: 206699

Ion Ratio Lower Upper

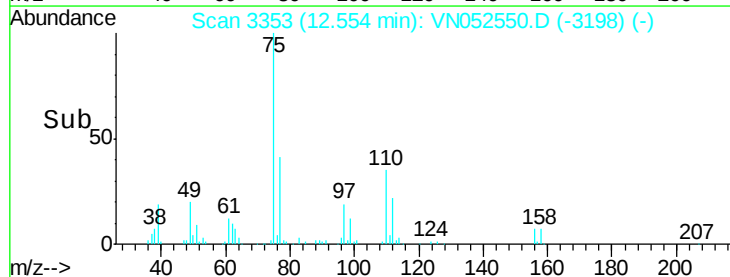
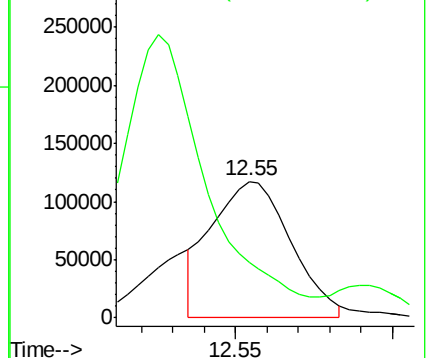
75 100

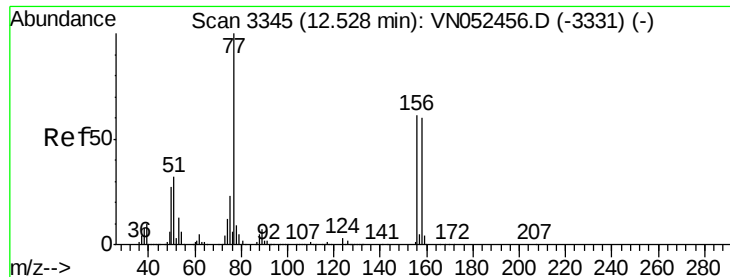
77 227.7 0.0 514.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#73

Bromobenzene

Concen: 20.110 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

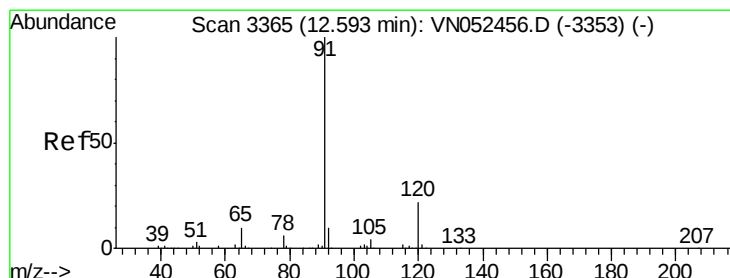
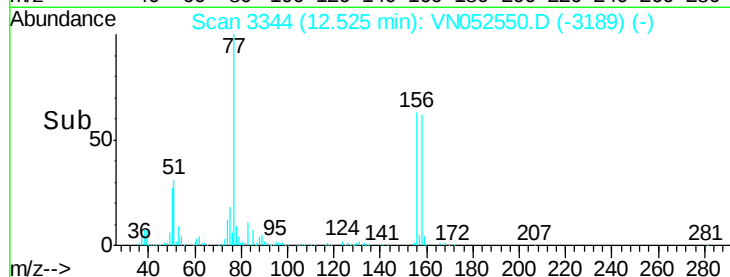
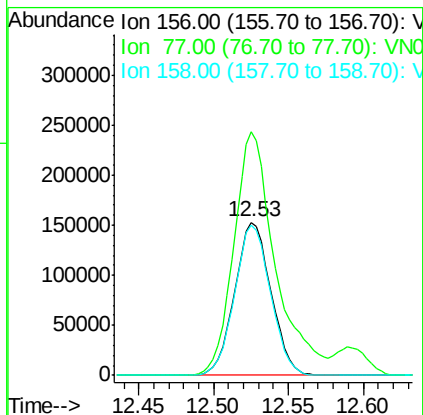
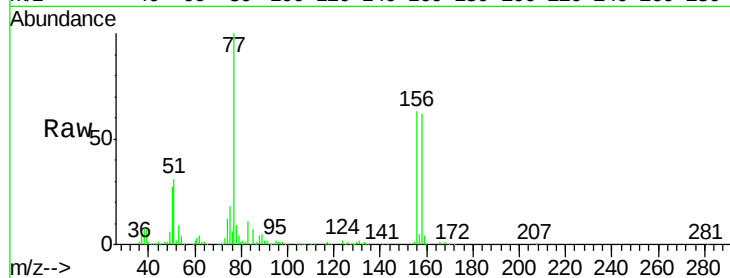
ClientSampleId :

VSTDCCC020EC

Tot Ion:	156	Resp:	258981
Ion Ratio	Lower	Upper	
156	100		
77	181.7	0.0	382.6
158	96.9	0.0	196.8

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#74

n-propylbenzene

Concen: 19.146 ug/l

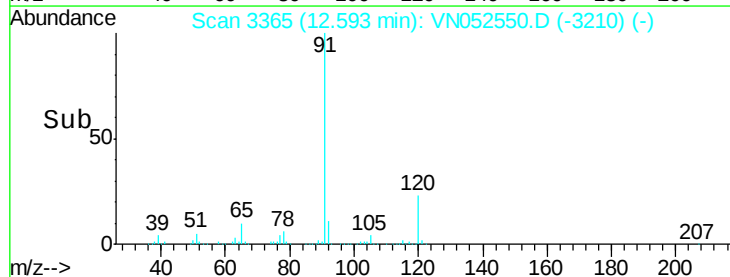
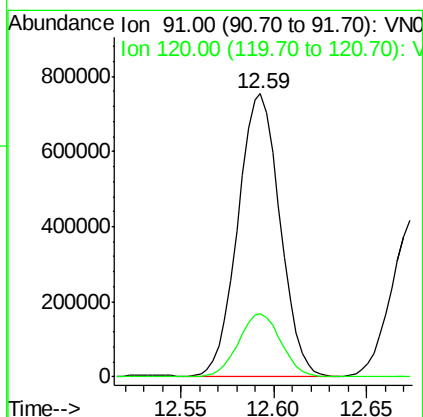
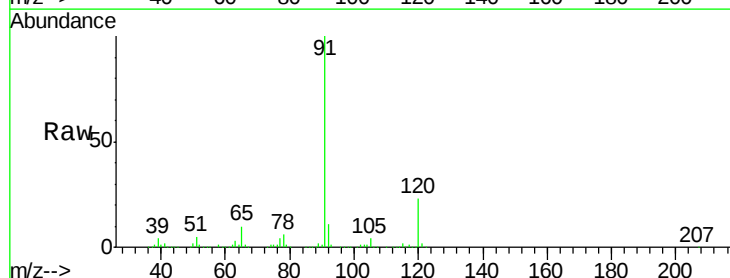
RT: 12.59 min Scan# 3365

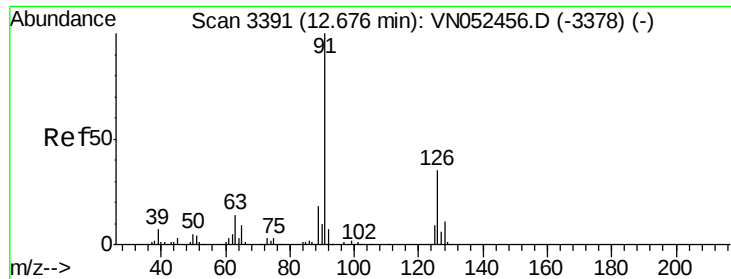
Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Tgt Ion:	91	Resp:	1187852
Ion Ratio	Lower	Upper	
91	100		
120	22.5	0.0	44.6





#75

2-Chlorotoluene

Concen: 19.638 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 91 Resp: 707209

Ion Ratio Lower Upper

91 100

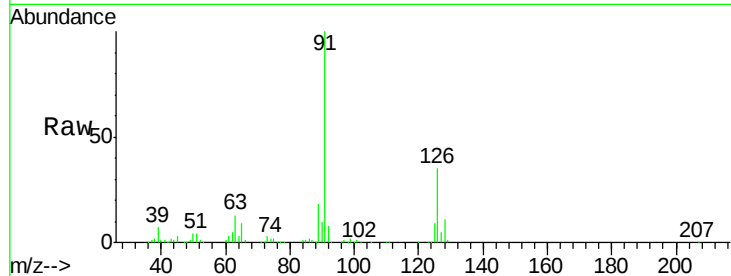
126 34.5 0.0 68.4

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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) (-)

600000

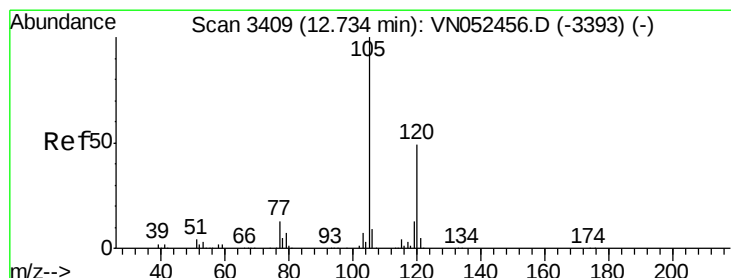
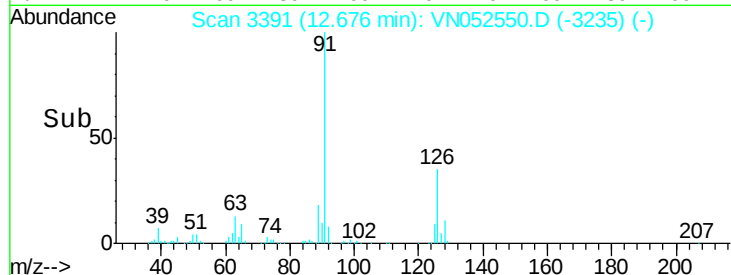
400000

200000

0

12.60 12.65 12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 19.690 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN052550.D

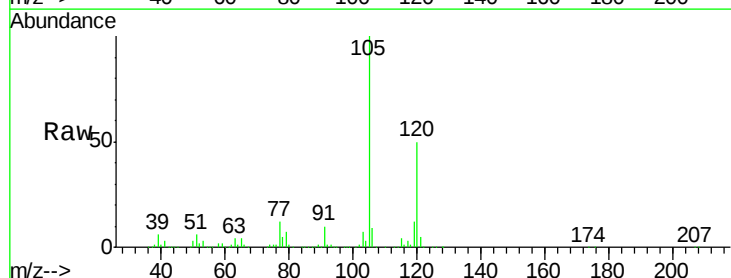
Acq: 29 Nov 2018 5:40

Tgt Ion: 105 Resp: 846846

Ion Ratio Lower Upper

105 100

120 49.4 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) (-)

600000

500000

400000

300000

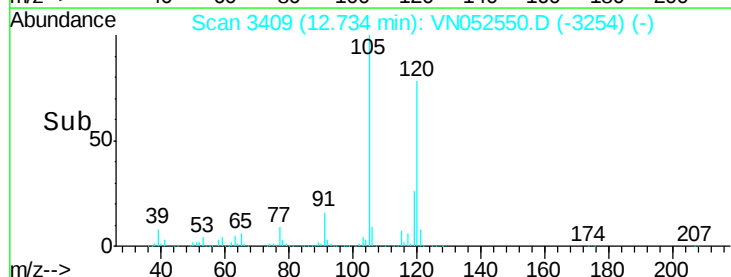
200000

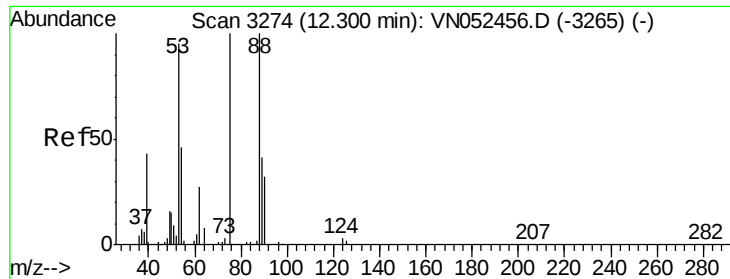
100000

0

12.65 12.70 12.75 12.80

Time-->





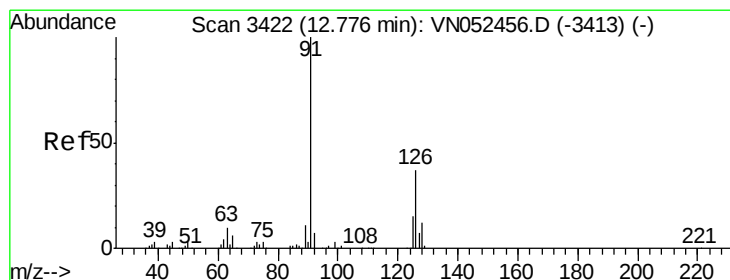
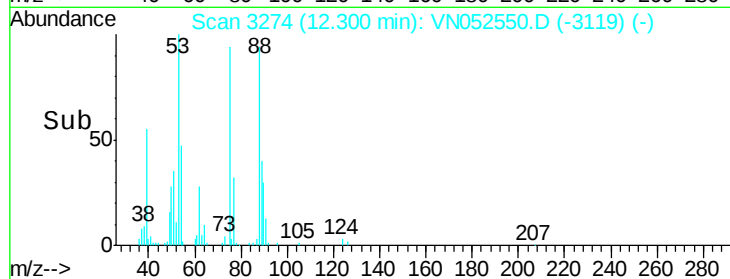
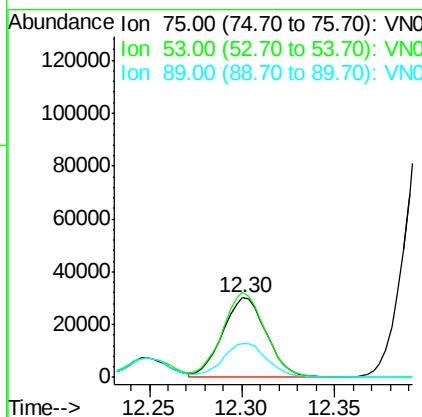
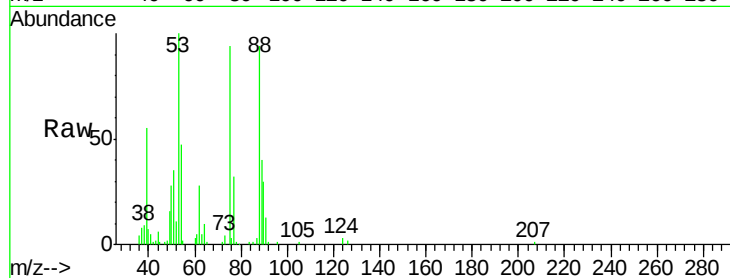
#77
t-1,4-Dichloro-2-butene
Concen: 15.889 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	105.5	48.5	145.6
89	42.4	21.7	65.1

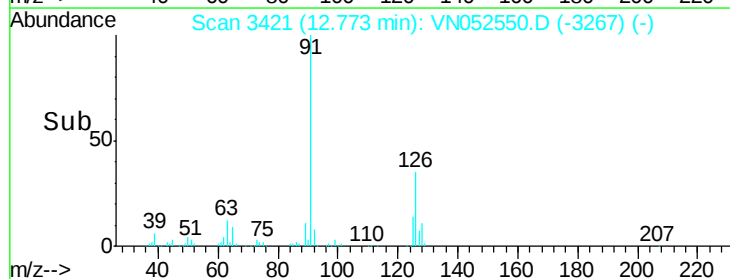
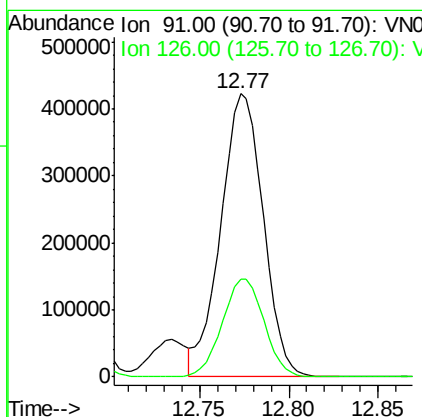
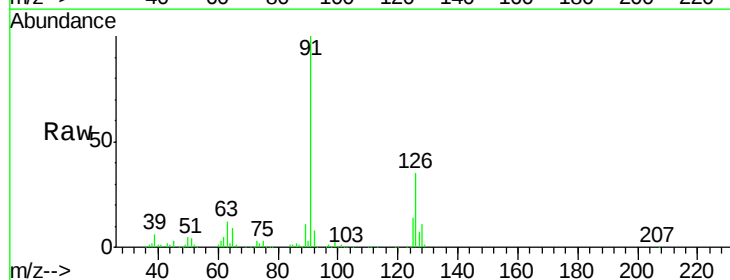
Manual Integrations
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11/29/2018 9:33:05 AM



#78
4-Chlorotoluene
Concen: 19.386 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.2	0.0	68.2





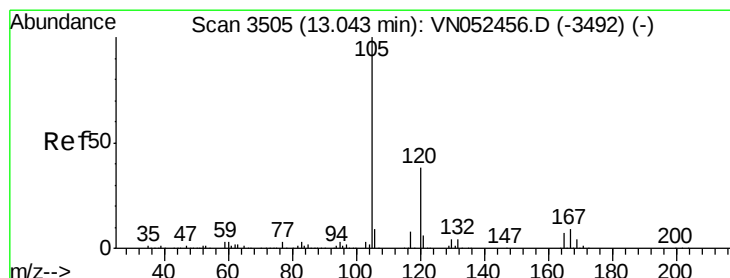
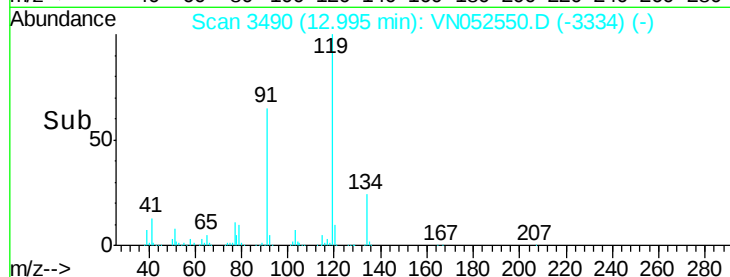
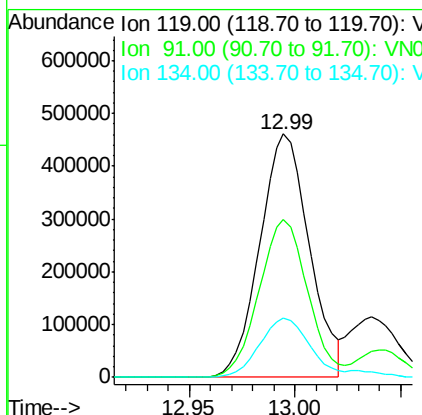
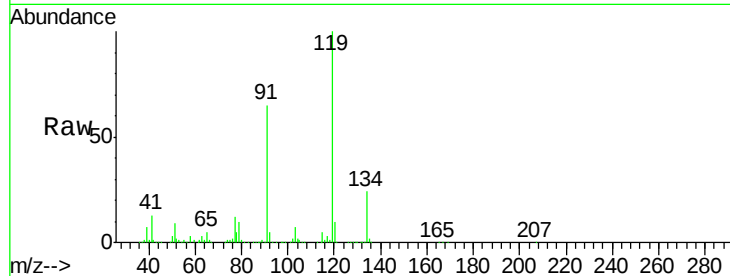
#79
tert-butylbenzene
Concen: 20.141 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.6	0.0	129.8
134	24.5	0.0	52.2

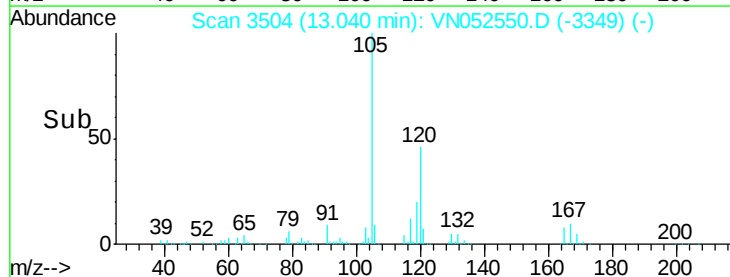
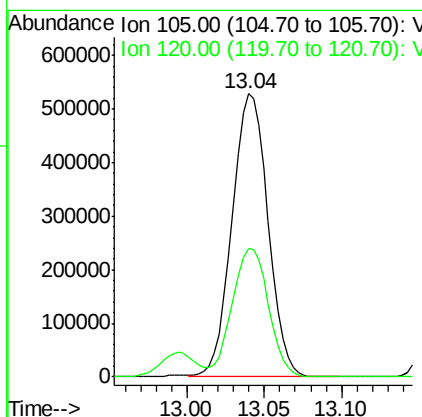
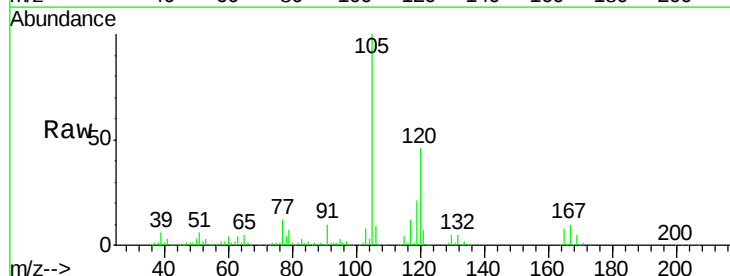
Manual Integrations
APPROVED

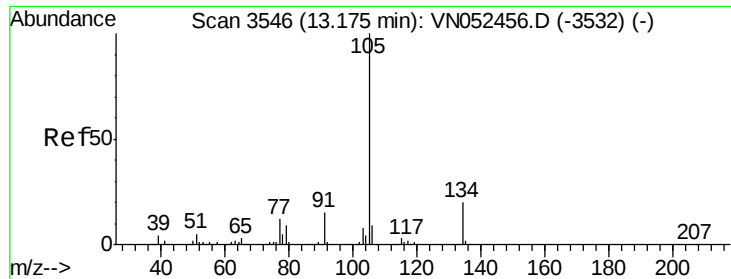
MMDadoda
11/29/2018 9:33:05 AM



#80
1,2,4-Trimethylbenzene
Concen: 19.761 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.9	0.0	91.0





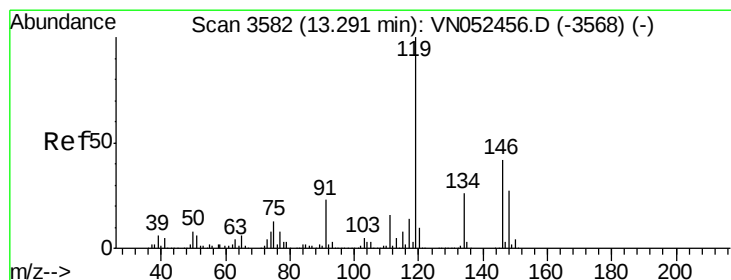
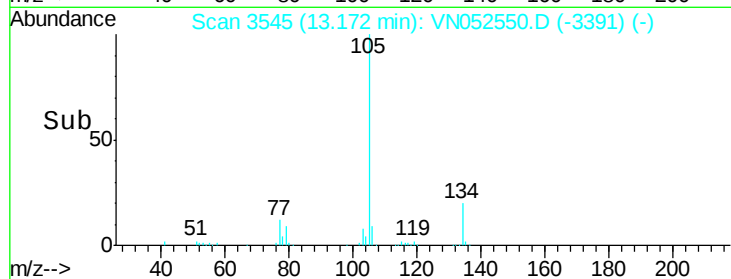
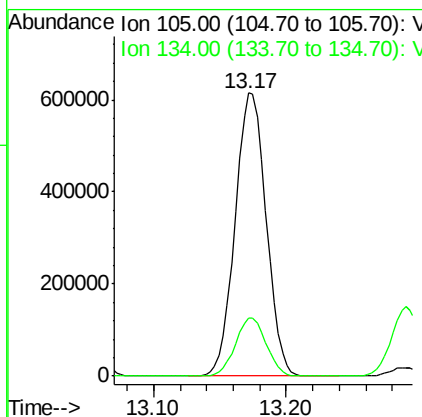
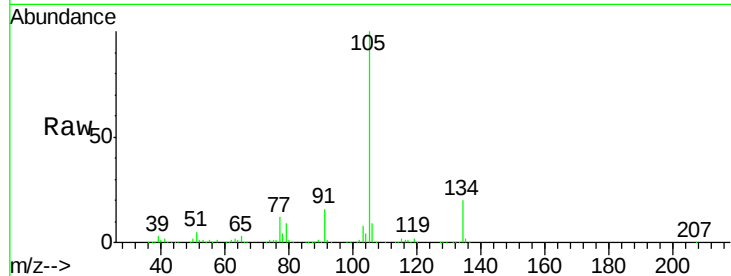
#81
 sec-Butylbenzene
 Concen: 19.158 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
105	100	999480		
134	20.4	0.0	40.4	

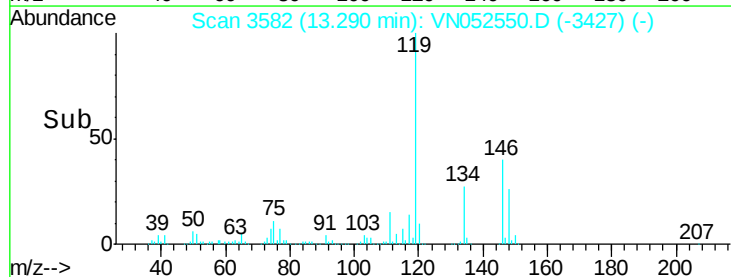
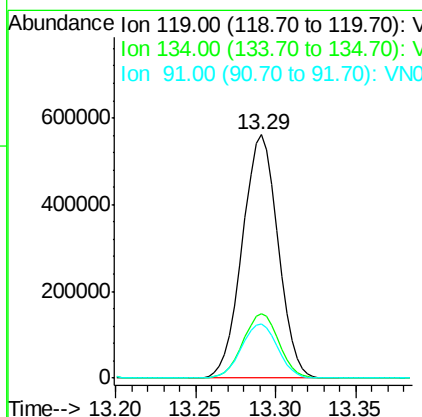
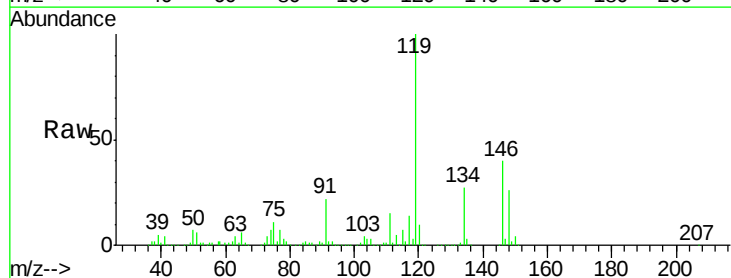
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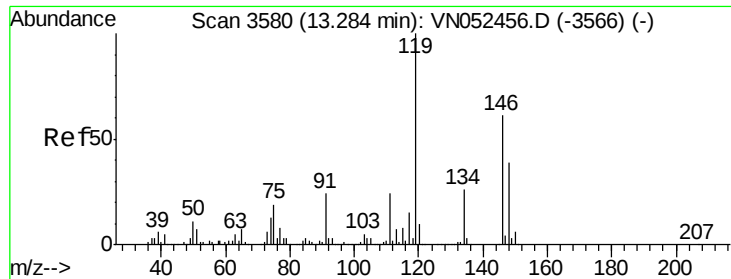
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 11/29/2018 9:33:05 AM



#82
 p-Isopropyltoluene
 Concen: 19.266 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	855881		
134	26.7	0.0	52.6	
91	22.6	0.0	46.2	





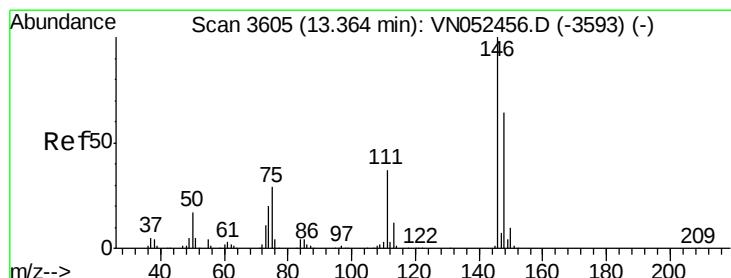
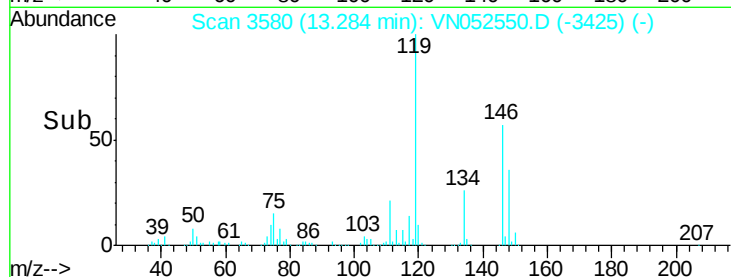
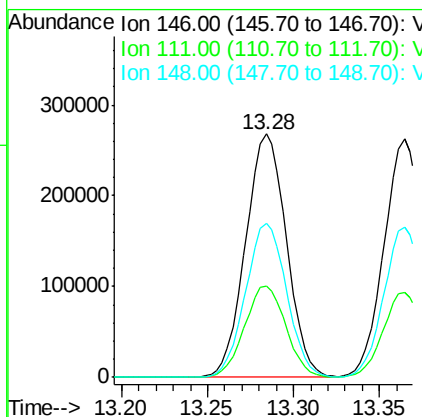
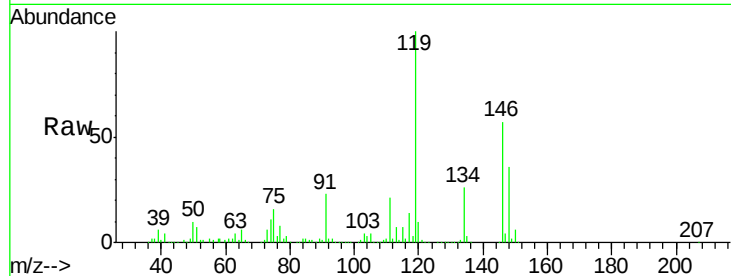
#83
 1,3-Dichlorobenzene
 Concen: 19.536 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.7	59.0
148	63.6	32.3	96.8

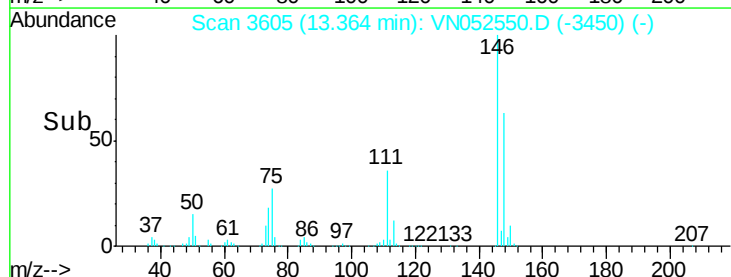
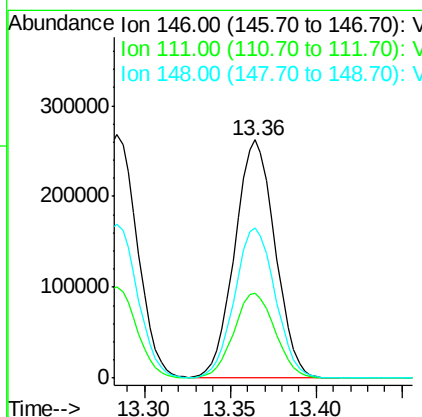
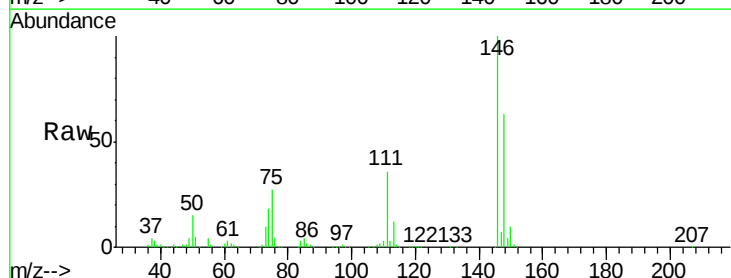
Manual Integrations
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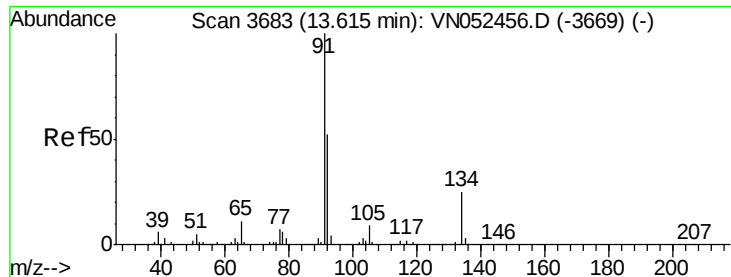
MMDadoda
 11/29/2018 9:33:05 AM



#84
 1,4-Dichlorobenzene
 Concen: 19.538 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	18.8	56.3
148	63.5	32.5	97.4





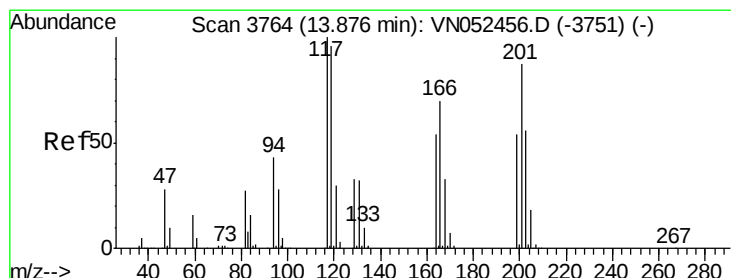
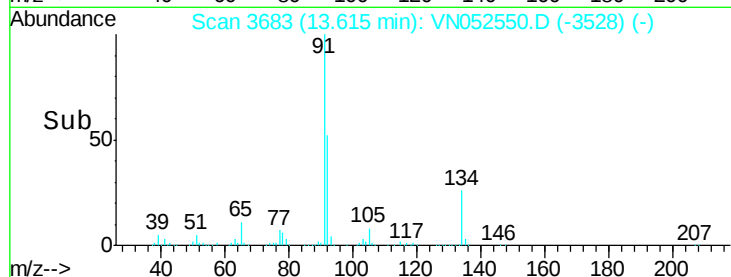
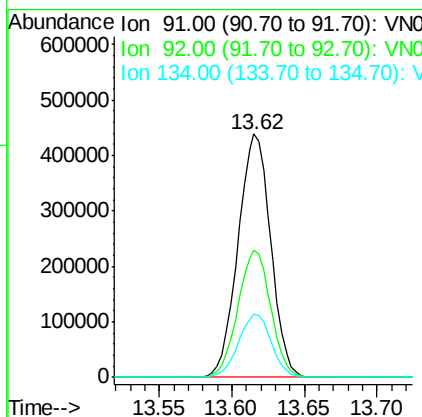
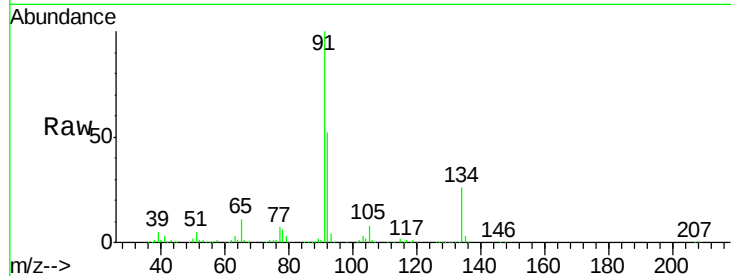
#85
n-Butylbenzene
Concen: 17.945 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	0.0	104.2
134	26.1	0.0	50.6

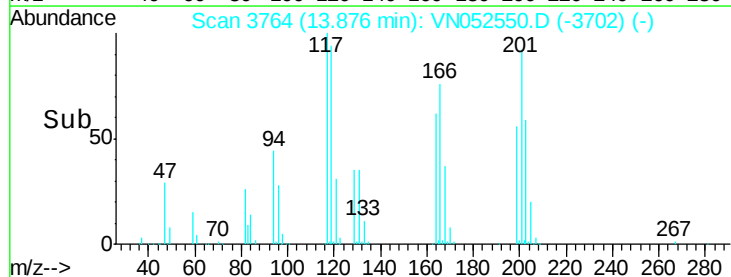
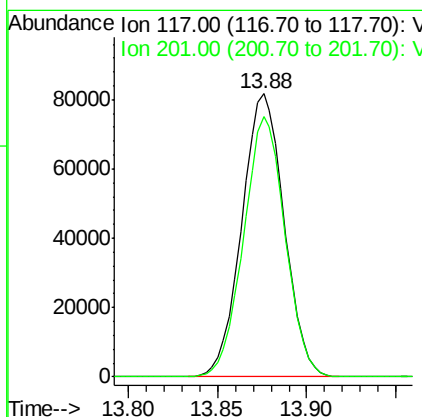
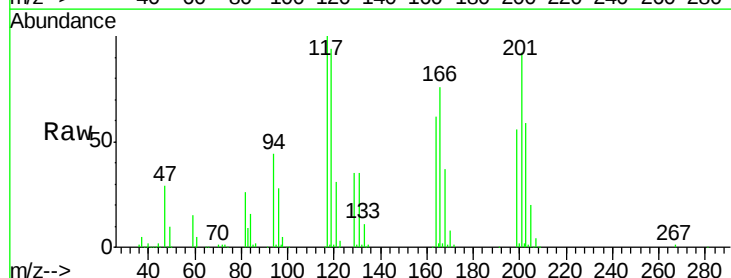
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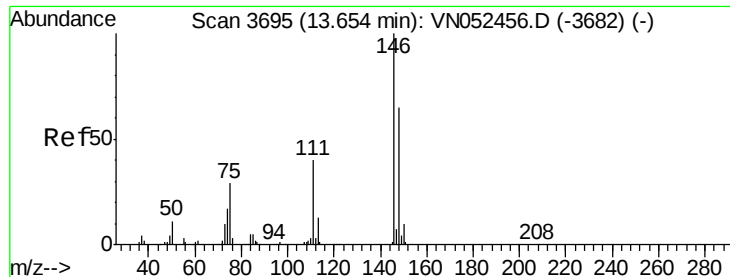
MMDadoda
11/29/2018 9:33:05 AM



#86
Hexachloroethane
Concen: 17.977 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.9	43.8	131.3





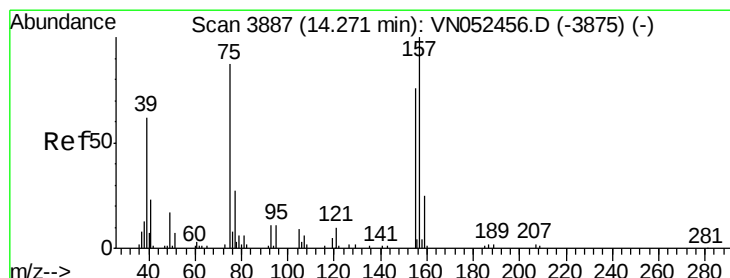
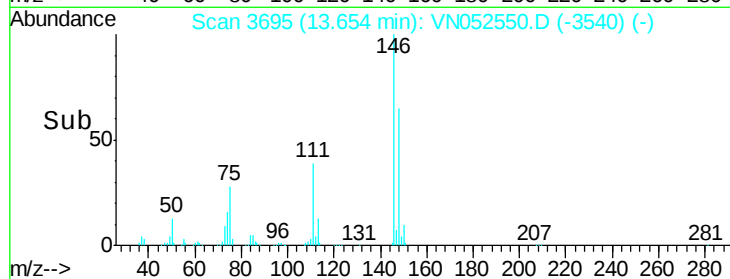
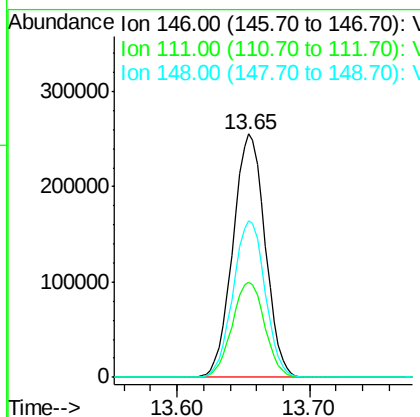
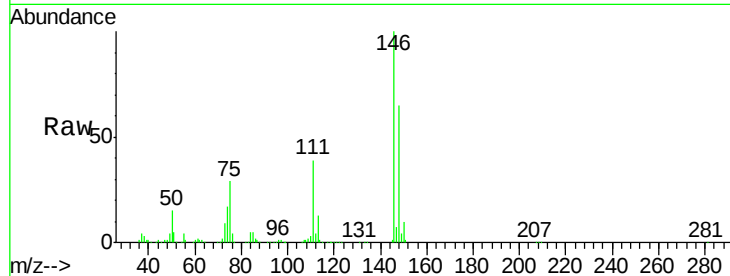
#87
 1,2-Dichlorobenzene
 Concen: 19.994 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.3	60.8
148	64.1	32.1	96.5

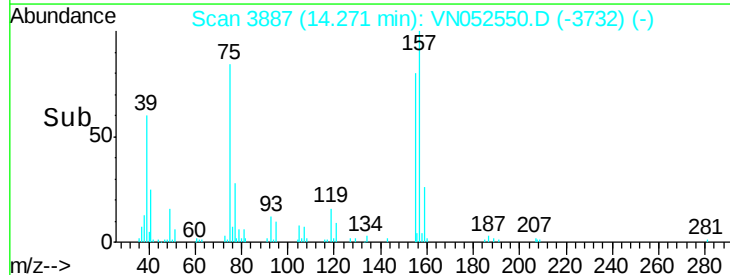
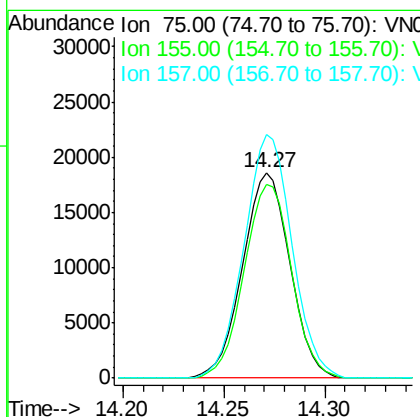
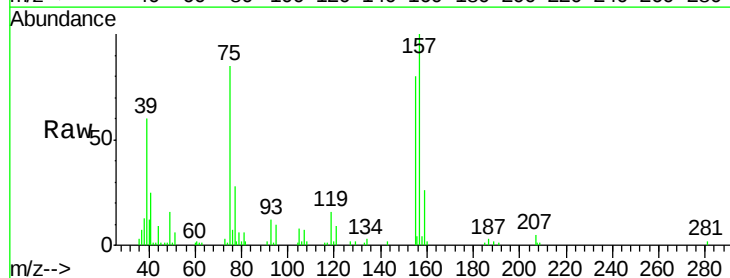
Manual Integrations
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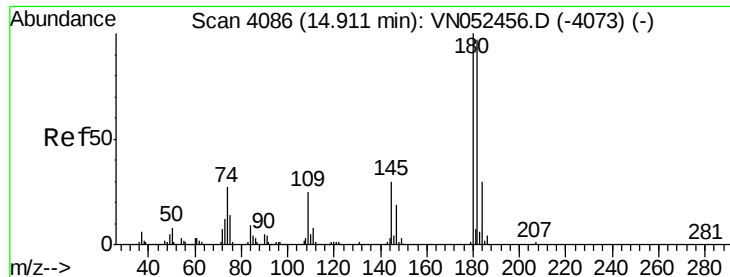
MMDadoda
 11/29/2018 9:33:05 AM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 18.859 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.00 min
 Lab File: VN052550.D
 Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.5	72.2	108.2
157	120.3	94.2	141.2





#89

1,2,4-Trichlorobenzene

Concen: 18.888 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Instrument :

MSVOA_N

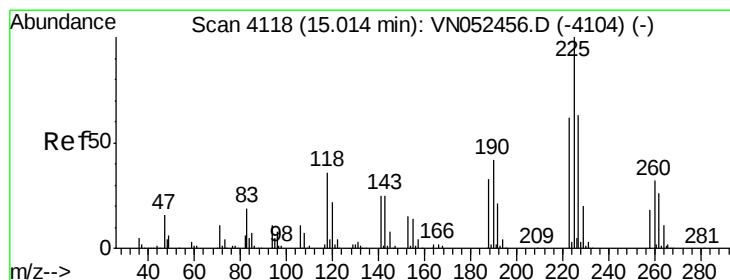
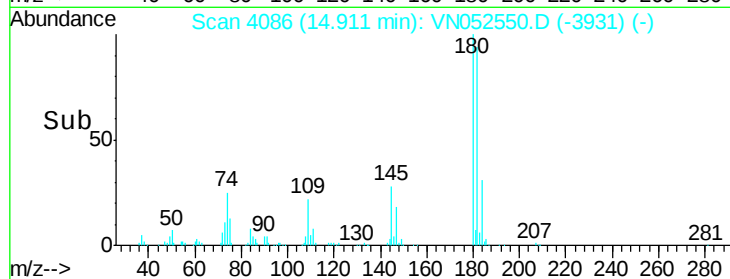
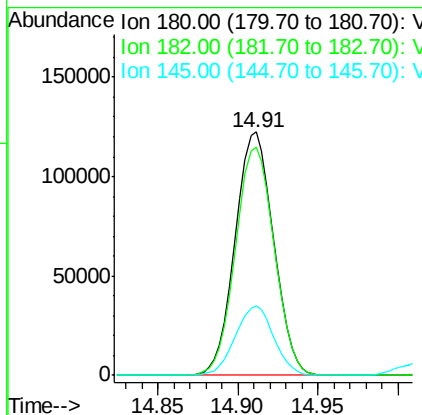
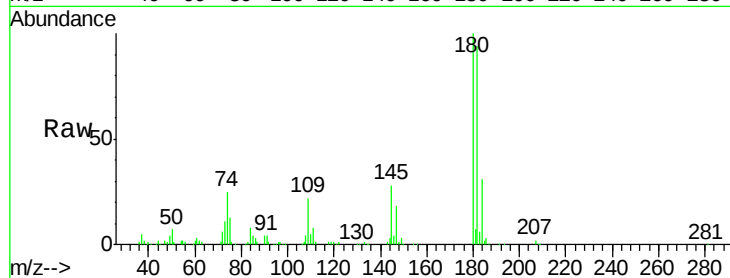
ClientSampleId :

VSTDCCC020EC

Tot Ion:	180	Resp:	200576
Ion Ratio	Lower	Upper	
180	100		
182	94.6	76.6	114.8
145	28.5	23.6	35.4

Manual Integrations
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#90

Hexachlorobutadiene

Concen: 18.810 ug/l

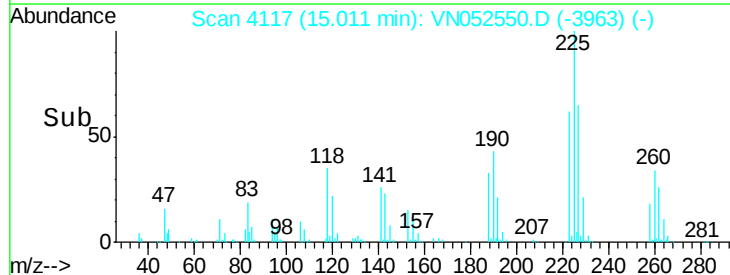
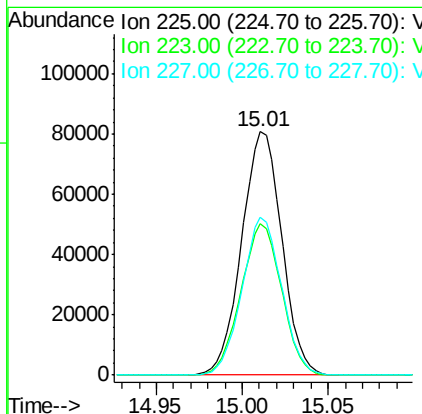
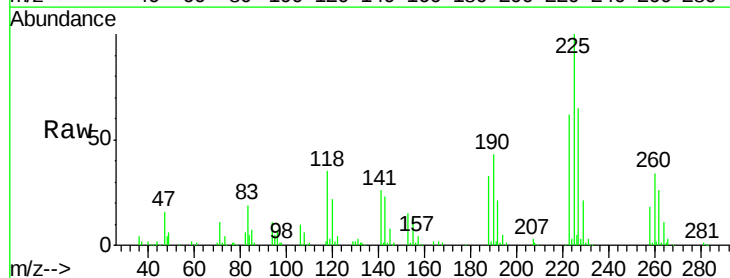
RT: 15.01 min Scan# 4117

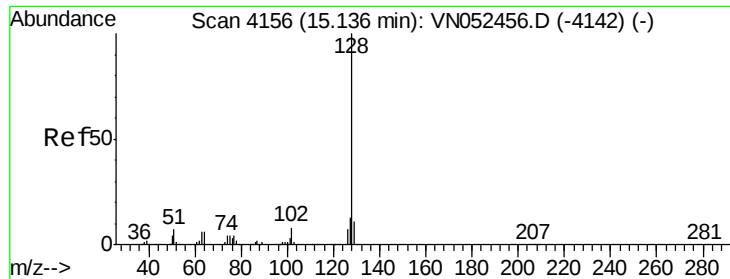
Delta R.T. -0.00 min

Lab File: VN052550.D

Acq: 29 Nov 2018 5:40

Tgt Ion:	225	Resp:	131037
Ion Ratio	Lower	Upper	
225	100		
223	62.8	0.0	125.6
227	63.6	0.0	127.8





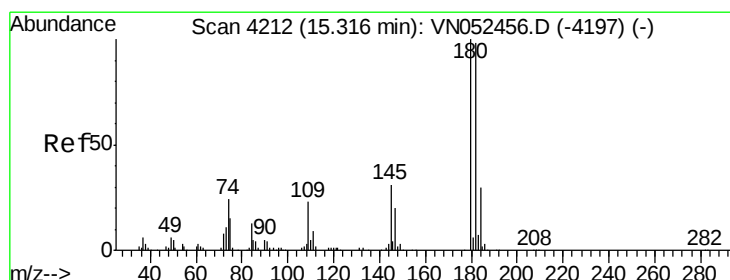
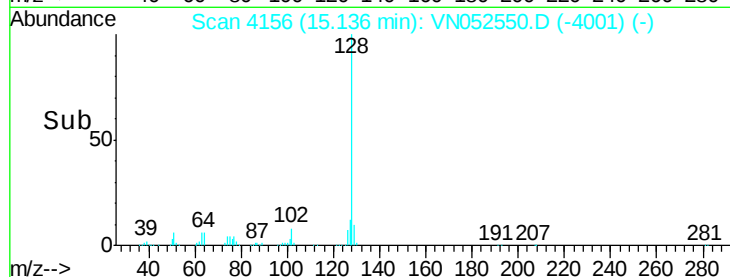
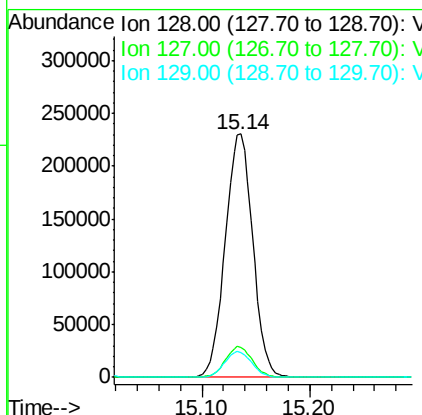
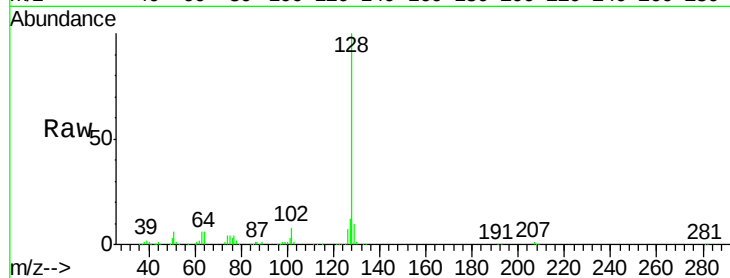
#91
Naphthalene
Concen: 19.186 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.9	14.9
129	10.6	8.5	12.7

Manual Integrations
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#92
1,2,3-Trichlorobenzene
Concen: 19.301 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN052550.D
Acq: 29 Nov 2018 5:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	0.0	196.2
145	30.3	0.0	62.2

