

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080918\
 Data File : VN050476.D
 Acq On : 9 Aug 2018 11:07
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 8/10/2018 10:52:19 AM

Quant Time: Aug 10 04:19:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	774328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1112020	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1051243	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	561774	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	468717	45.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.62%	
35) Dibromofluoromethane	7.59	113	432066	48.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.84%	
50) Toluene-d8	10.09	98	1630783	48.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.22%	
62) 4-Bromofluorobenzene	12.40	95	581615	50.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.74%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	378345	44.02	ug/l	99
3) Chloromethane	2.06	50	455659	44.71	ug/l	99
4) Vinyl Chloride	2.18	62	484904	43.58	ug/l	99
5) Bromomethane	2.54	94	227217	42.15	ug/l	100
6) Chloroethane	2.69	64	305785	44.61	ug/l	100
7) Trichlorofluoromethane	3.00	101	638787	44.46	ug/l	100
8) Diethyl Ether	3.41	74	243293	46.17	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	405665	45.68	ug/l	99
10) Methyl Iodide	3.94	142	177025	45.25	ug/l	96
11) Tert butyl alcohol	4.80	59	152211	183.14	ug/l	100
12) 1,1-Dichloroethene	3.73	96	369467	44.14	ug/l	98
13) Acrolein	3.60	56	137233	134.31	ug/l	97
14) Allyl chloride	4.32	41	586071	43.59	ug/l	98
15) Acrylonitrile	4.99	53	741470	212.99	ug/l	99
16) Acetone	3.82	43	648006	209.97	ug/l	99
17) Carbon Disulfide	4.05	76	1081204	39.72	ug/l	100
18) Methyl Acetate	4.32	43	371438	46.32	ug/l	96
19) Methyl tert-butyl Ether	5.05	73	1107891	46.63	ug/l	100
20) Methylene Chloride	4.55	84	439981	46.52	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	401708	44.34	ug/l	98
22) Diisopropyl ether	5.95	45	1297677	47.25	ug/l	98
23) Vinyl Acetate	5.90	43	4476317	228.45	ug/l	99
24) 1,1-Dichloroethane	5.85	63	746264	44.29	ug/l	99
25) 2-Butanone	6.84	43	1072736	209.25	ug/l	97
26) 2,2-Dichloropropane	6.82	77	617225	44.43	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	470474	46.86	ug/l	98
28) Bromochloromethane	7.19	49	355443	45.82	ug/l	95
29) Tetrahydrofuran	7.21	42	549142	200.12	ug/l	98
30) Chloroform	7.37	83	769683	45.69	ug/l	99
31) Cyclohexane	7.65	56	655169	44.10	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	655951	45.34	ug/l	99
36) 1,1-Dichloropropene	7.79	75	581206	47.57	ug/l	100
37) Ethyl Acetate	6.93	43	377175	42.87	ug/l	99
38) Carbon Tetrachloride	7.77	117	580796	45.57	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	644318	48.31	ug/l	98
40) Benzene	8.04	78	1758565	46.82	ug/l	99
41) Methacrylonitrile	7.18	41	205169	43.85	ug/l #	82
42) 1,2-Dichloroethane	8.12	62	559641	46.93	ug/l	99
43) Isopropyl Acetate	8.17	43	674756	44.42	ug/l	96
44) Trichloroethene	8.83	130	478974	47.45	ug/l	99
45) 1,2-Dichloropropane	9.12	63	464517	47.04	ug/l	98
46) Dibromomethane	9.21	93	286467	46.97	ug/l	97
47) Bromodichloromethane	9.40	83	600387	47.53	ug/l	99
48) Methyl methacrylate	9.20	41	349205	45.87	ug/l	98
49) 1,4-Dioxane	9.20	88	100654	857.74	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	2356481	215.42	ug/l	98
52) Toluene	10.16	92	1123408	49.79	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	633546	49.95	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	708037	50.02	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	414824	47.09	ug/l	99
56) Ethyl methacrylate	10.43	69	547561	44.13	ug/l	97
57) 1,3-Dichloropropane	10.71	76	697231	48.22	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1279088	221.02	ug/l	98
59) 2-Hexanone	10.75	43	1624559	212.80	ug/l	98
60) Dibromochloromethane	10.90	129	473661	48.81	ug/l	98
61) 1,2-Dibromoethane	11.01	107	418599	48.21	ug/l	98
64) Tetrachloroethene	10.63	164	471091	47.96	ug/l	99
65) Chlorobenzene	11.43	112	1255333	47.63	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	462778	48.25	ug/l	100
67) Ethyl Benzene	11.51	91	2134908	50.11	ug/l	100
68) m/p-Xylenes	11.62	106	1672486	103.12	ug/l	99
69) o-Xylene	11.95	106	809702	51.83	ug/l	98
70) Styrene	11.96	104	1338045	52.67	ug/l	99
71) Bromoform	12.13	173	333308	47.55	ug/l #	99
73) Isopropylbenzene	12.25	105	2108497	50.00	ug/l	99
74) N-amyl acetate	12.07	43	588861	43.08	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	534104	43.90	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	434904m	42.77	ug/l	
77) Bromobenzene	12.53	156	562389	49.78	ug/l	97
78) n-propylbenzene	12.59	91	2416629	50.63	ug/l	99
79) 2-Chlorotoluene	12.68	91	1455406	49.37	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1754569	51.26	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	129624	44.79	ug/l	97
82) 4-Chlorotoluene	12.77	91	1484066	50.48	ug/l	99
83) tert-Butylbenzene	12.99	119	1520904	50.93	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	1797702	51.84	ug/l	99
85) sec-Butylbenzene	13.17	105	1997336	50.18	ug/l	99
86) p-Isopropyltoluene	13.29	119	1754720	51.44	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	986273	49.01	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	964817	48.02	ug/l	100
89) n-Butylbenzene	13.62	91	1457246	50.18	ug/l	99
90) Hexachloroethane	13.88	117	262449	43.27	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	951139	47.16	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	76887	37.22	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	486280	47.33	ug/l	98
94) Hexachlorobutadiene	15.01	225	299122	53.41	ug/l	99
95) Naphthalene	15.13	128	1027940	38.67	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	449067	43.23	ug/l	100

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

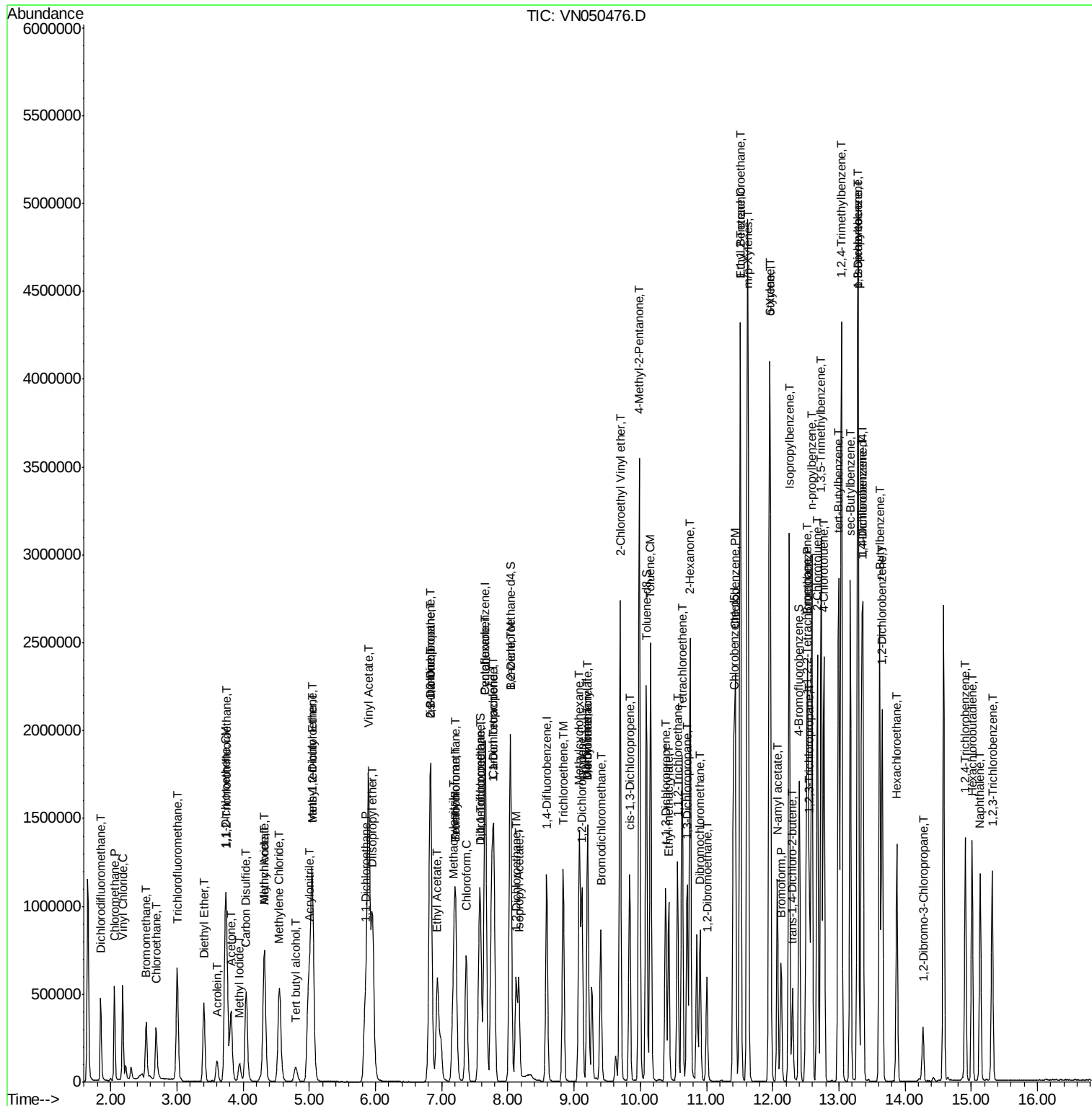
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080918\
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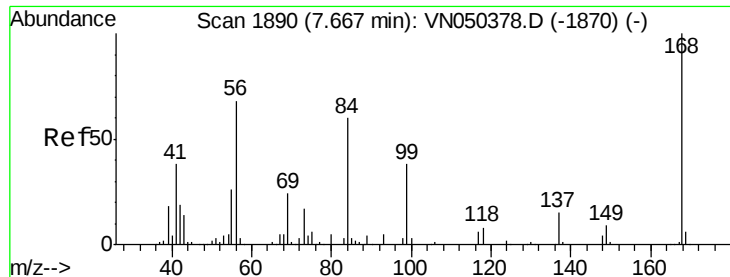
Instrument :
MSVOA_N
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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 774328

Ion Ratio Lower Upper

168 100

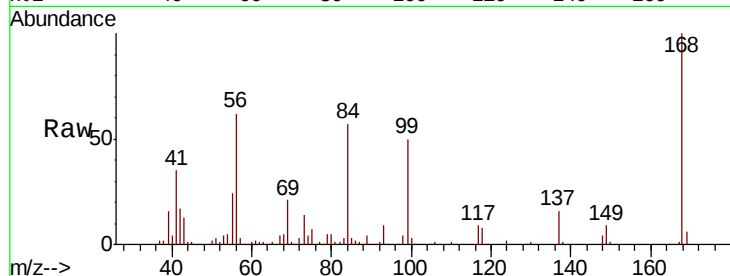
99 49.6 40.0 60.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN050378.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050378.D (-1870) (-)

7.66

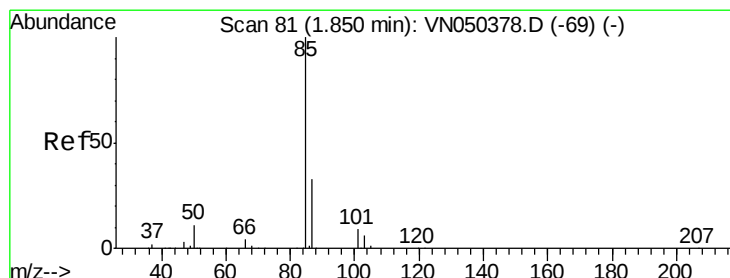
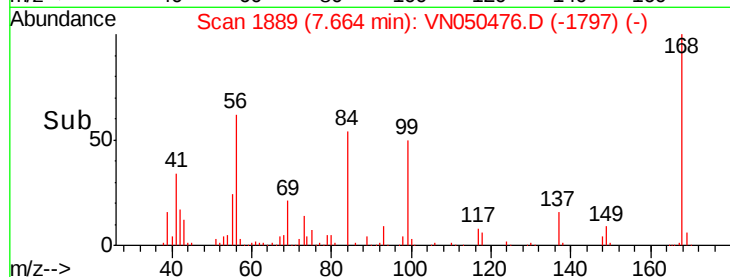
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 44.02 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050476.D

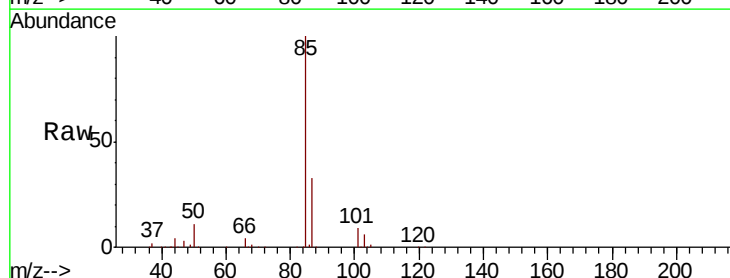
Acq: 9 Aug 2018 11:07

Tgt Ion: 85 Resp: 378345

Ion Ratio Lower Upper

85 100

87 32.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN050378.D (-69) (-)

Ion 86.90 (86.60 to 87.60): VN050378.D (-69) (-)

1.85

300000

250000

200000

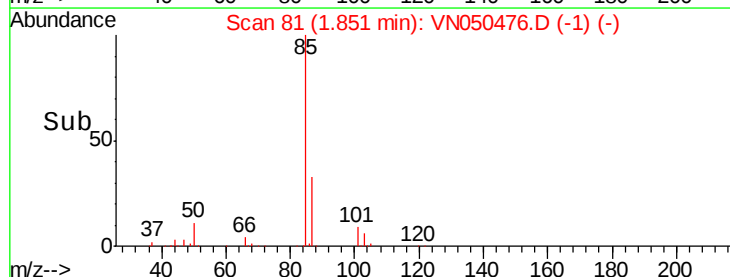
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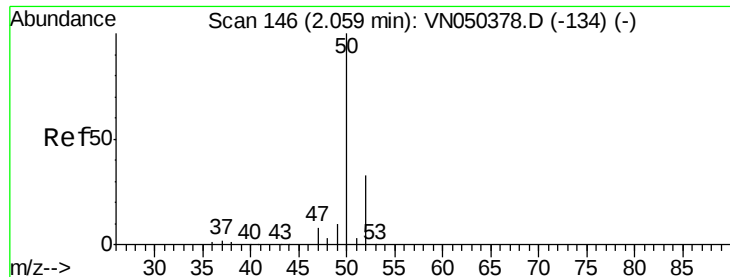
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50000

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Time-->





#3

Chloromethane

Concen: 44.71 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 455659

Ion Ratio Lower Upper

50 100

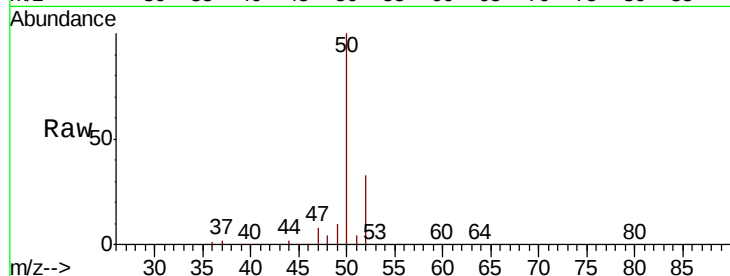
52 33.2 25.9 38.9

Manual Integrations

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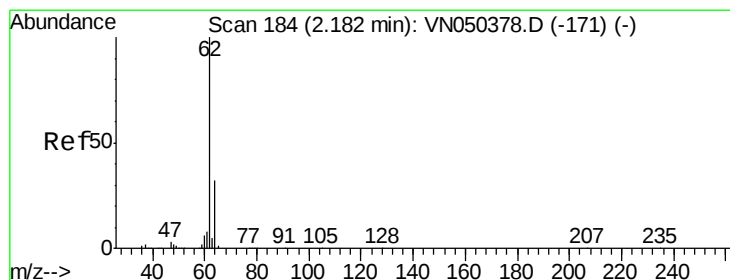
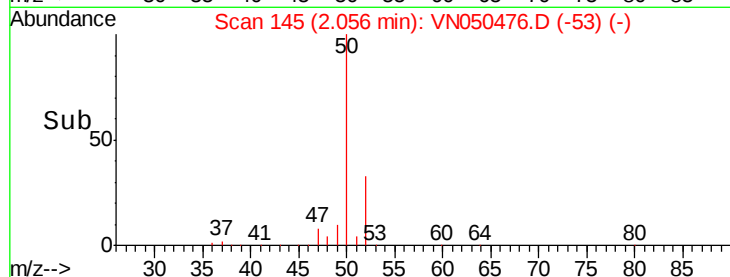
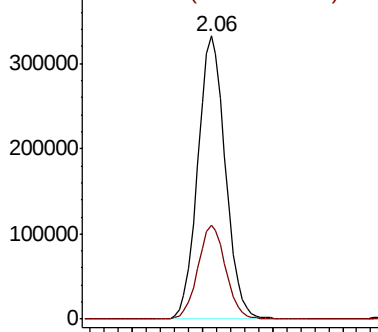
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 43.58 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050476.D

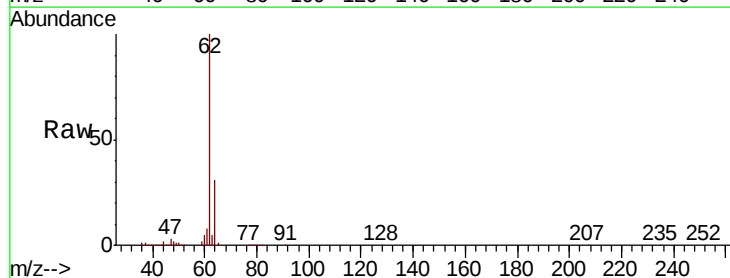
Acq: 9 Aug 2018 11:07

Tgt Ion: 62 Resp: 484904

Ion Ratio Lower Upper

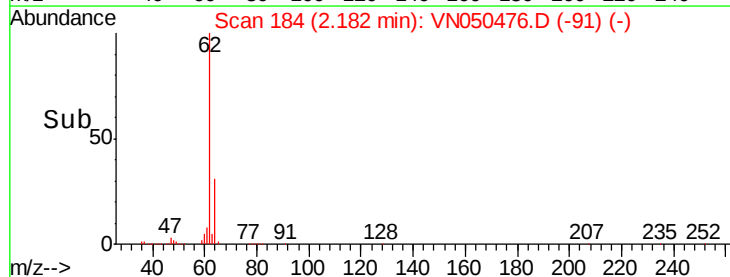
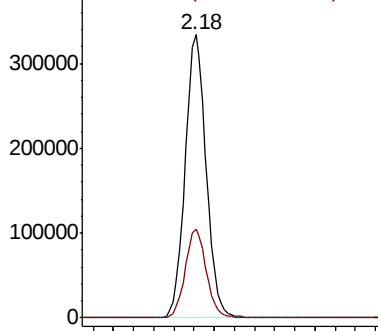
62 100

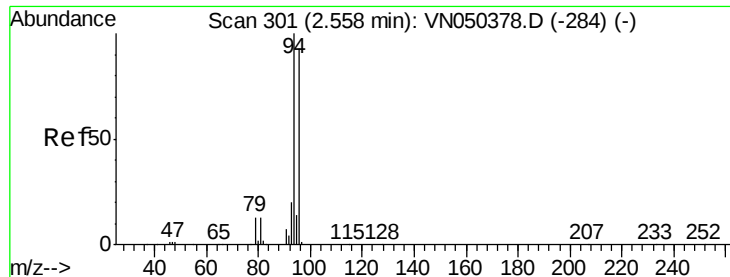
64 31.3 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 42.15 ug/l

RT: 2.54 min Scan# 294

Delta R.T. -0.02 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

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Tot Ion: 94 Resp: 227217

Ion Ratio Lower Upper

94 100

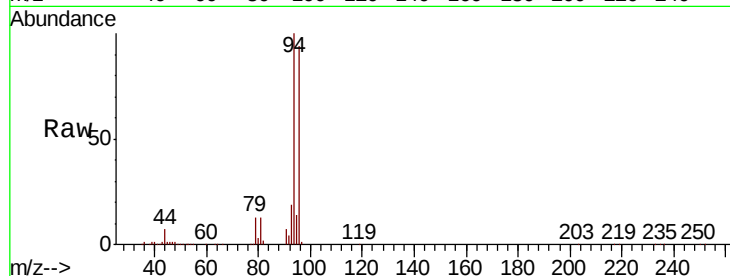
96 93.7 74.6 112.0

Manual Integrations

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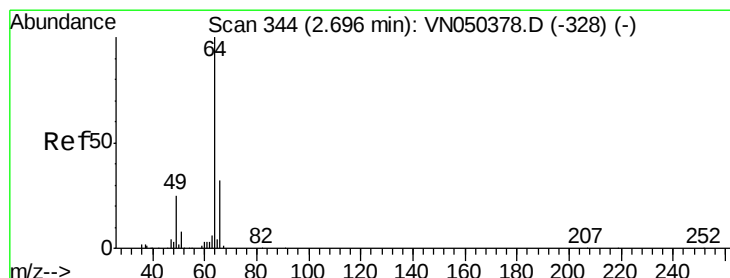
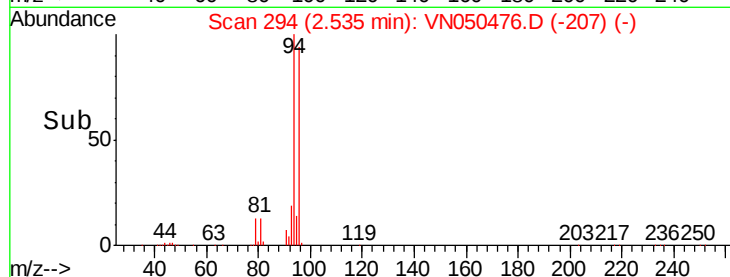
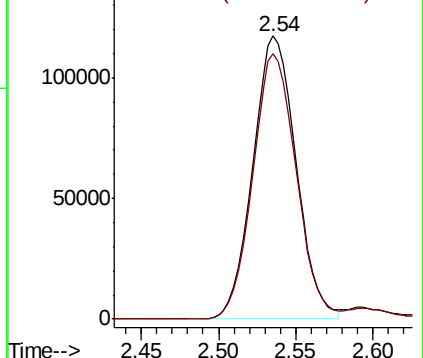
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 44.61 ug/l

RT: 2.69 min Scan# 341

Delta R.T. -0.01 min

Lab File: VN050476.D

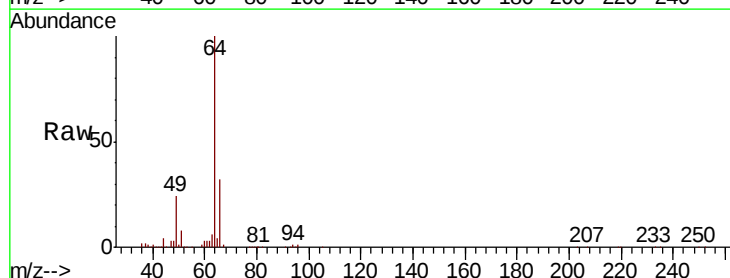
Acq: 9 Aug 2018 11:07

Tgt Ion: 64 Resp: 305785

Ion Ratio Lower Upper

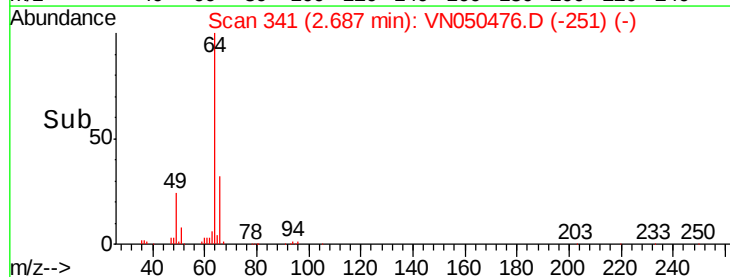
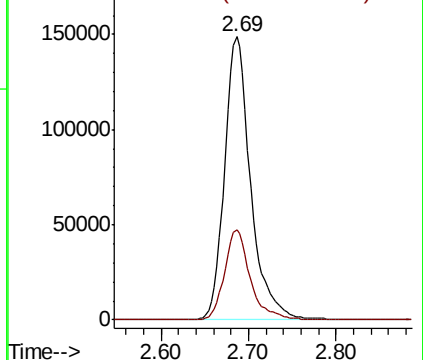
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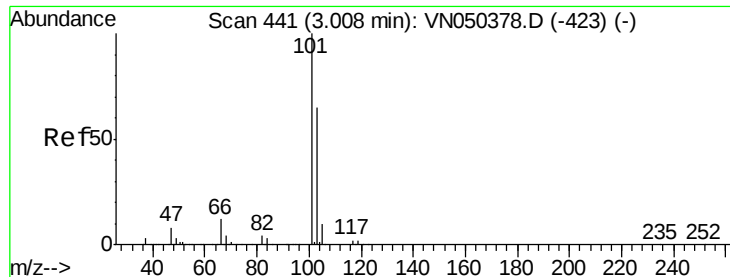
66 31.8 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

Trichlorofluoromethane

Concen: 44.46 ug/l

RT: 3.00 min Scan# 440

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:101 Resp: 638787

Ion Ratio Lower Upper

101 100

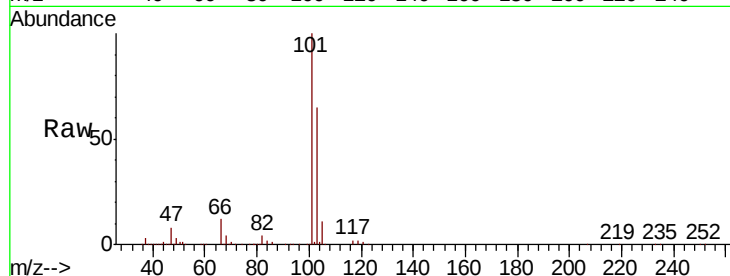
103 64.8 51.7 77.5

Manual Integrations

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8/10/2018 10:52:19 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.00

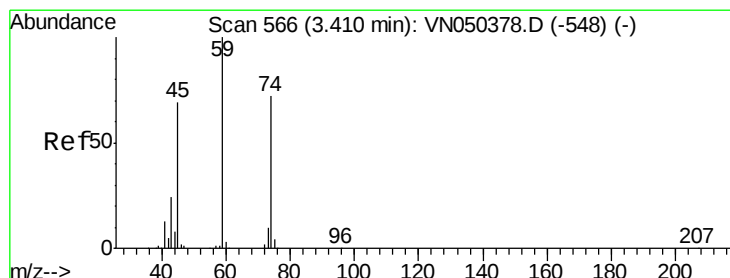
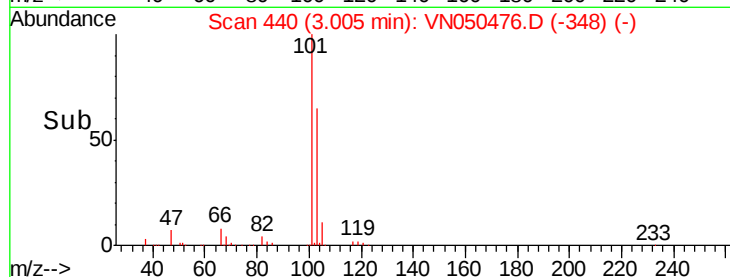
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200000

100000

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Time-->



#8

Diethyl Ether

Concen: 46.17 ug/l

RT: 3.41 min Scan# 566

Delta R.T. 0.00 min

Lab File: VN050476.D

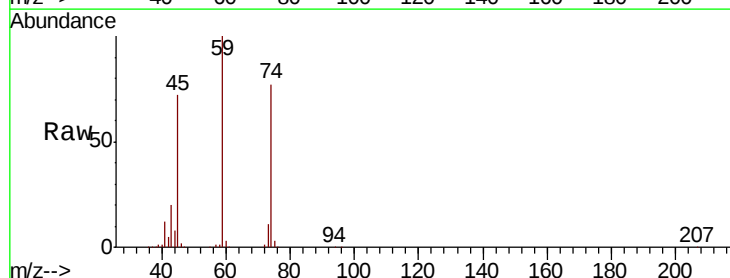
Acq: 9 Aug 2018 11:07

Tgt Ion: 74 Resp: 243293

Ion Ratio Lower Upper

74 100

45 92.4 47.6 142.8



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

120000

100000

80000

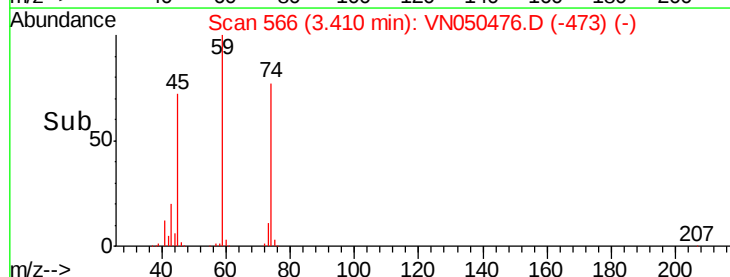
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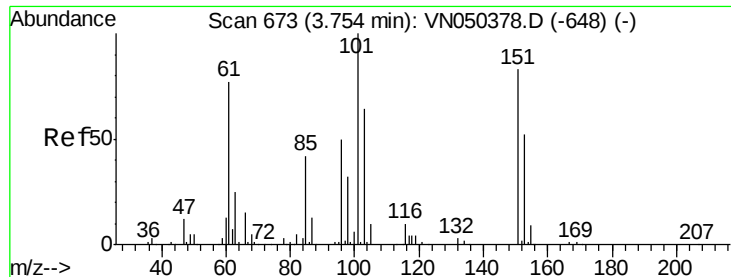
40000

20000

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Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.68 ug/l

RT: 3.75 min Scan# 672

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

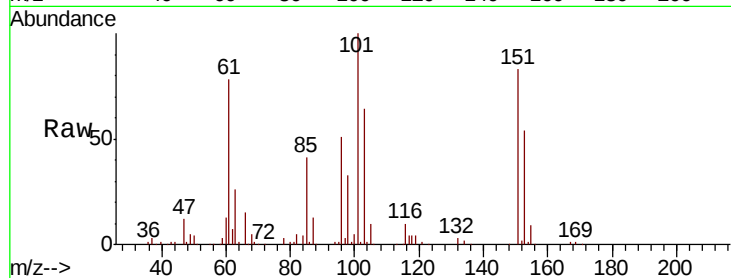
ClientSampleId :

VSTDCCC050

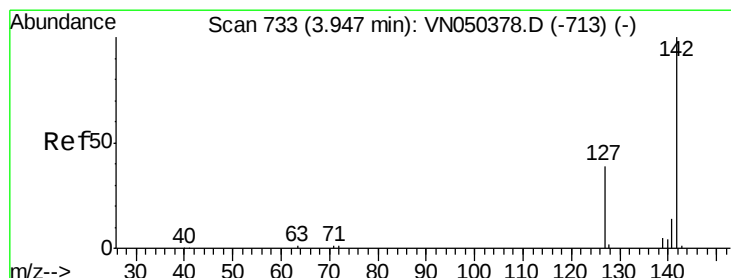
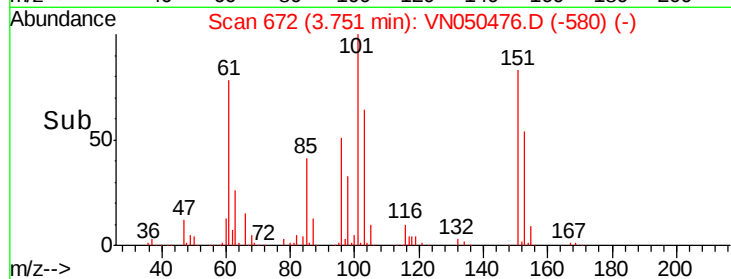
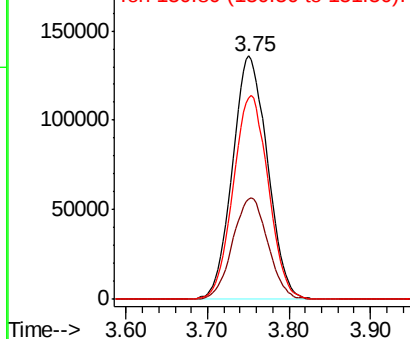
Tot Ion:	101	Resp:	405665
Ion Ratio	Lower	Upper	
101	100		
85	41.8	34.2	51.2
151	83.8	66.3	99.5

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VN
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 45.25 ug/l

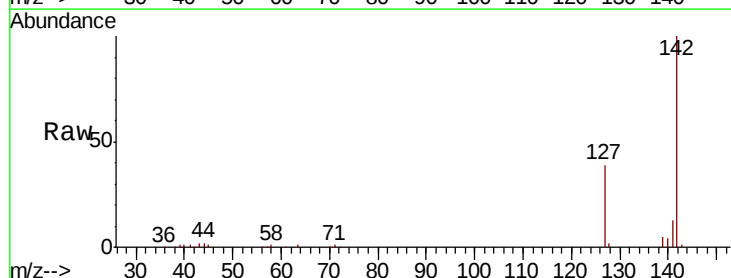
RT: 3.94 min Scan# 732

Delta R.T. -0.00 min

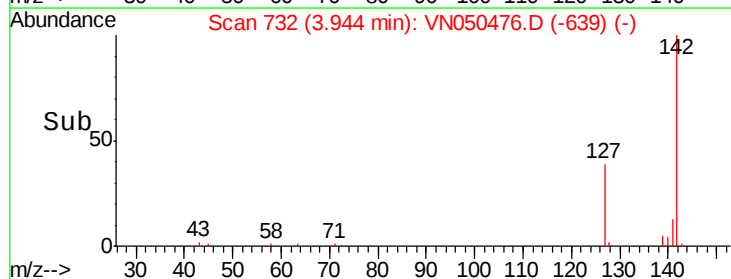
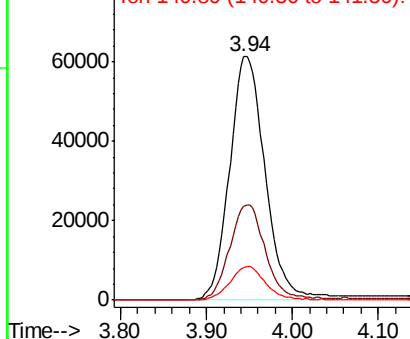
Lab File: VN050476.D

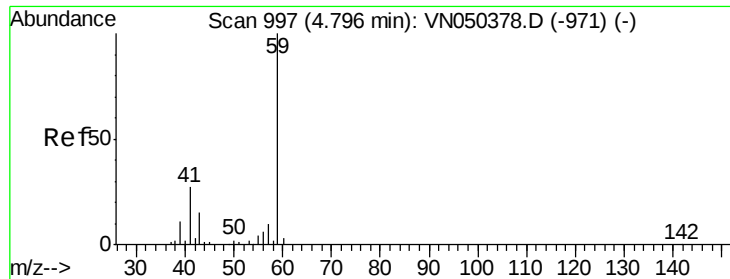
Acq: 9 Aug 2018 11:07

Tgt Ion:	142	Resp:	177025
Ion Ratio	Lower	Upper	
142	100		
127	38.9	33.4	50.2
141	13.8	11.6	17.4



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





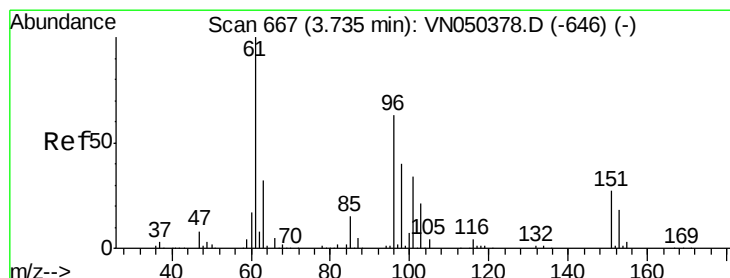
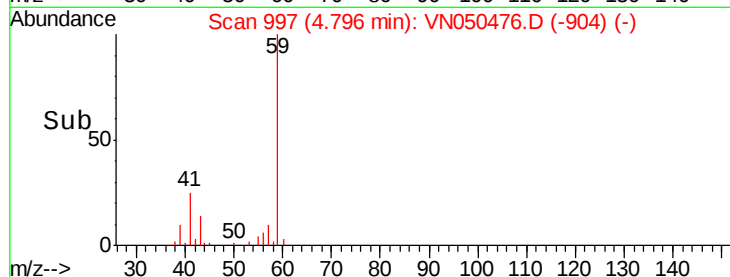
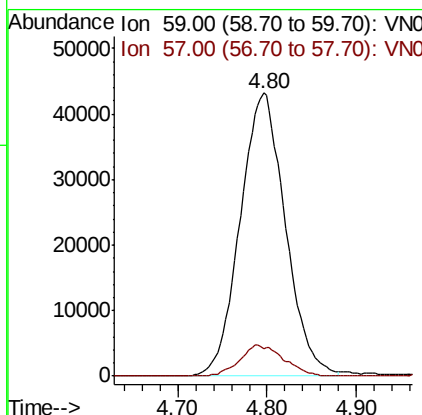
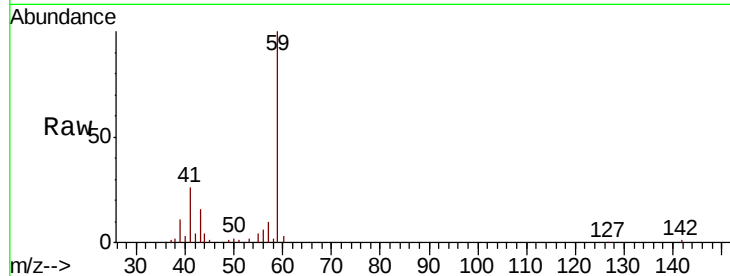
#11
Tert butyl alcohol
Concen: 183.14 ug/l
RT: 4.80 min Scan# 997
Delta R.T. 0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	152211
Ion Ratio	100	Lower	Upper
57	10.7	8.5	12.7

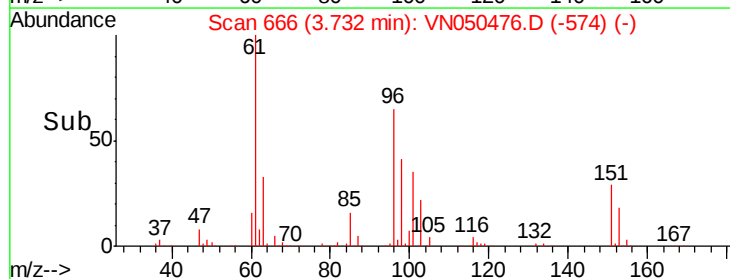
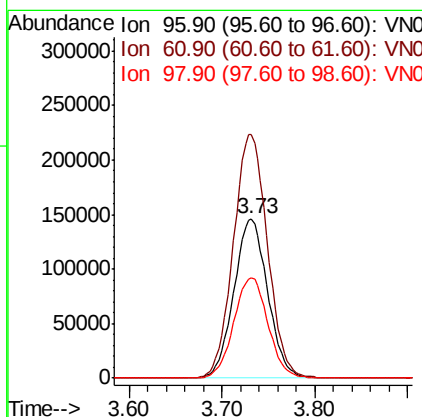
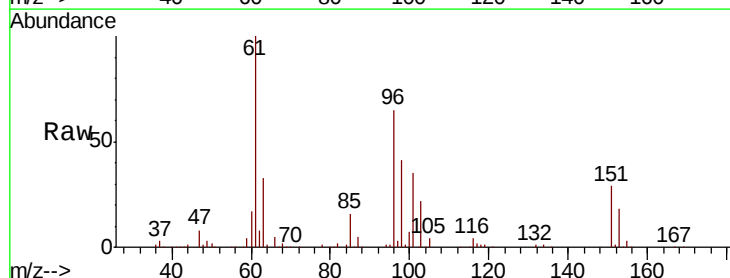
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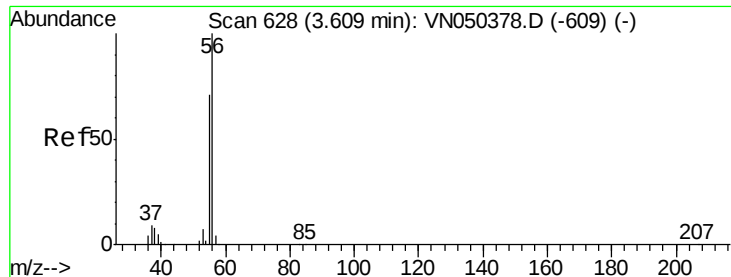
MMDadoda
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#12
1,1-Dichloroethene
Concen: 44.14 ug/l
RT: 3.73 min Scan# 666
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion	96	Resp	369467
Ion Ratio	100	Lower	Upper
61	152.8	124.4	186.6
98	63.1	48.3	72.5





#13

Acrolein

Concen: 134.31 ug/l

RT: 3.60 min Scan# 626

Delta R.T. -0.01 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 137233

Ion Ratio Lower Upper

56 100

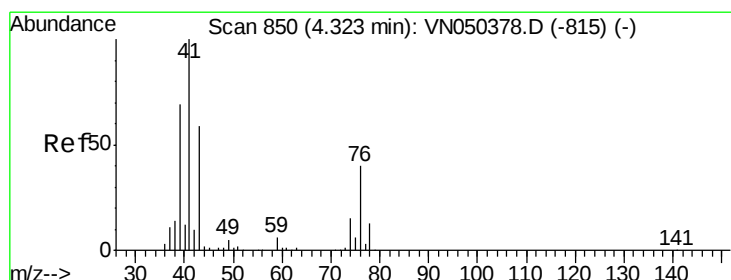
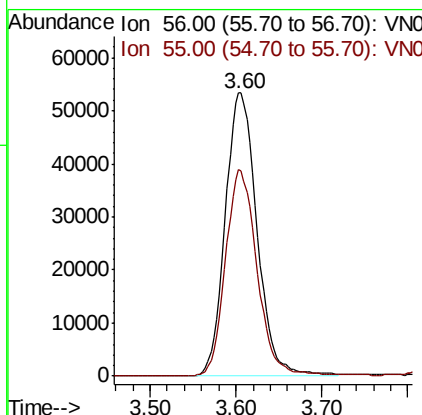
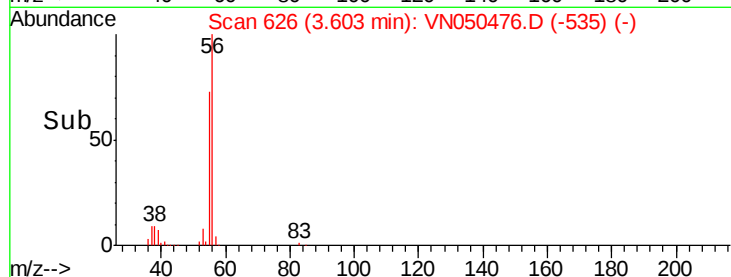
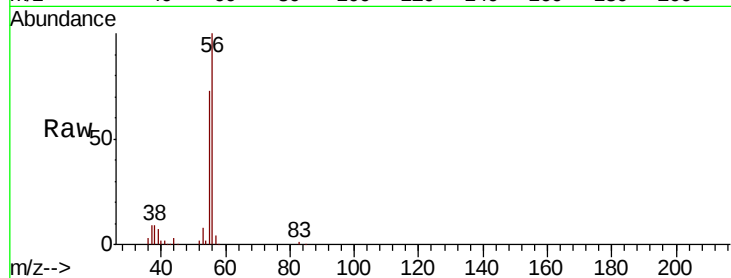
55 72.2 55.8 83.6

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#14

Allyl chloride

Concen: 43.59 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

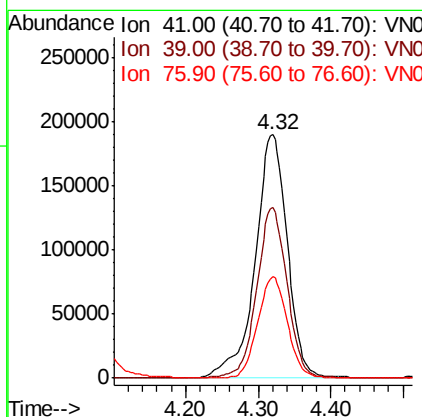
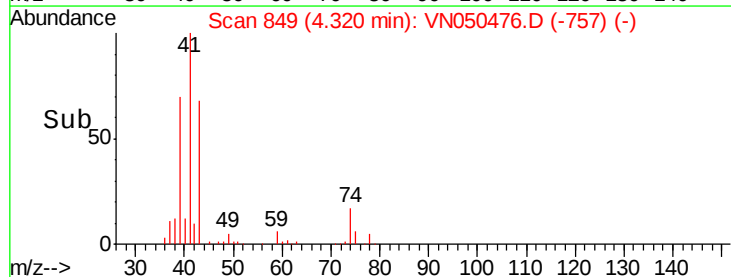
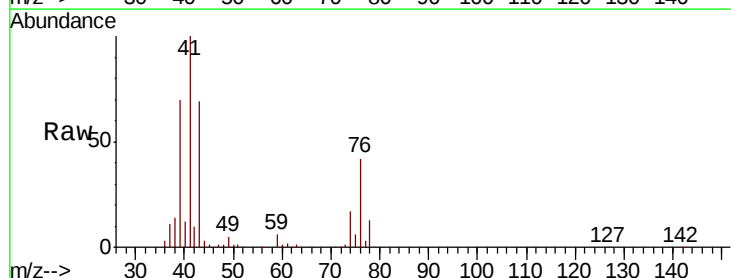
Tgt Ion: 41 Resp: 586071

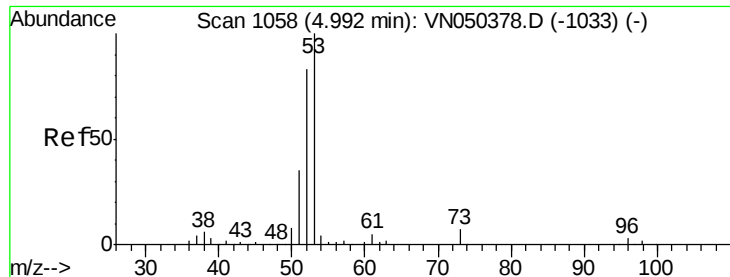
Ion Ratio Lower Upper

41 100

39 66.2 54.2 81.4

76 38.0 29.0 43.6





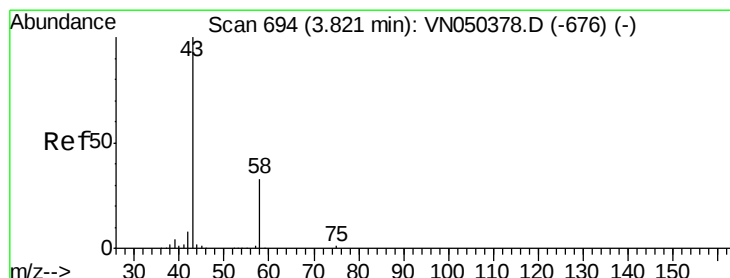
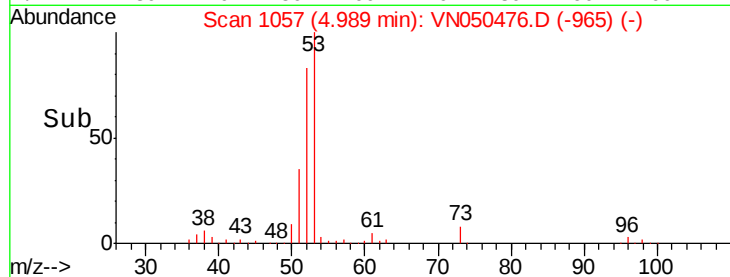
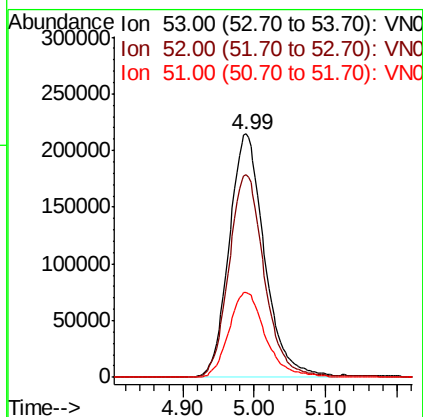
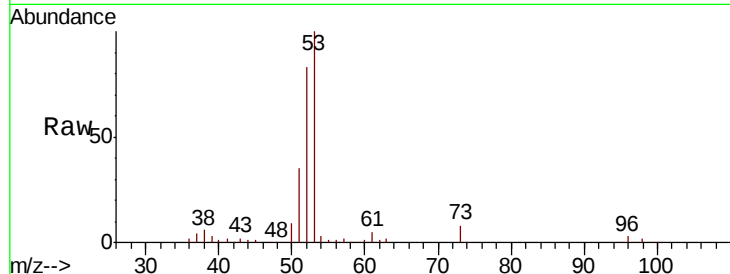
#15
 Acrylonitrile
 Concen: 212.99 ug/l
 RT: 4.99 min Scan# 1057
 Delta R.T. -0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	53	Ratio	Lower	Upper
53	100			
52	83.1	66.2	99.2	
51	36.2	29.3	43.9	

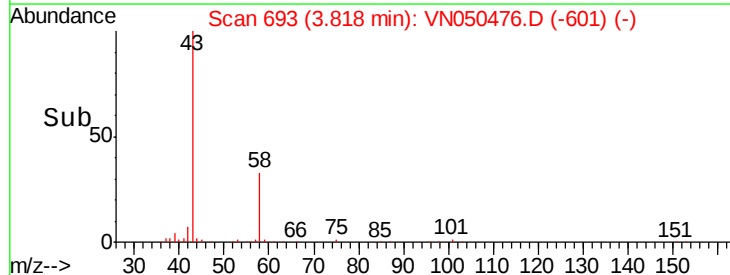
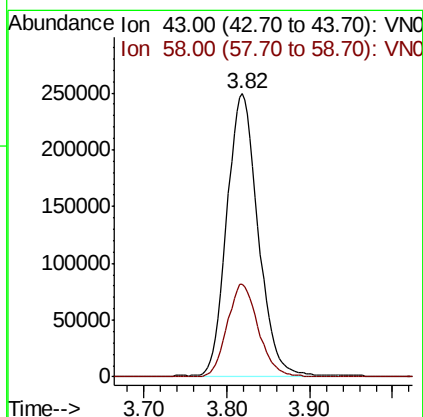
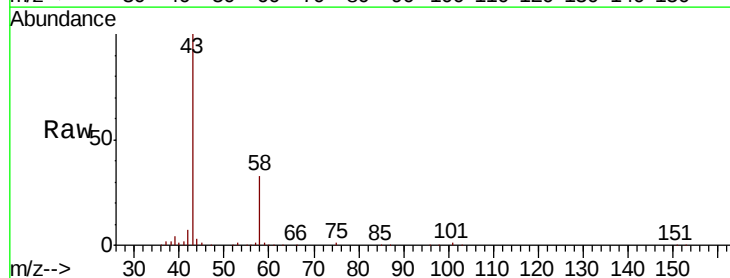
Manual Integrations
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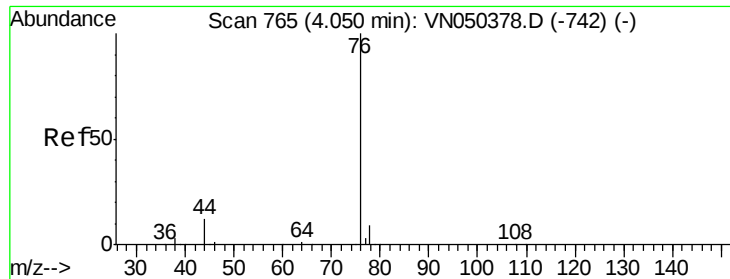
MMDadoda
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#16
 Acetone
 Concen: 209.97 ug/l
 RT: 3.82 min Scan# 693
 Delta R.T. -0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Tgt Ion	43	Ratio	Lower	Upper
43	100			
58	32.9	25.8	38.8	





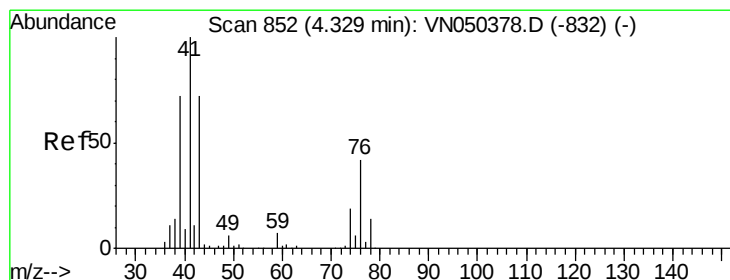
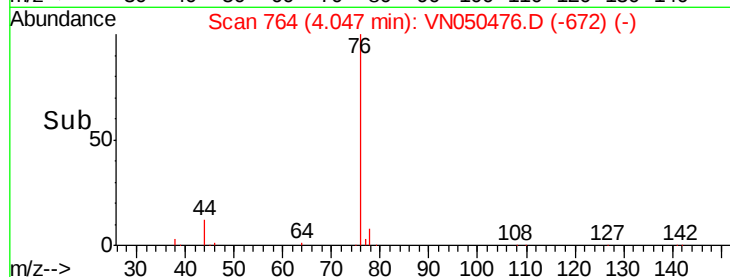
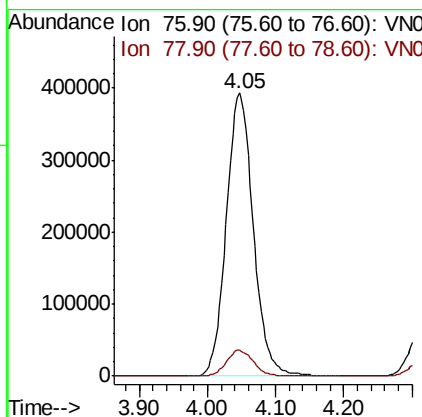
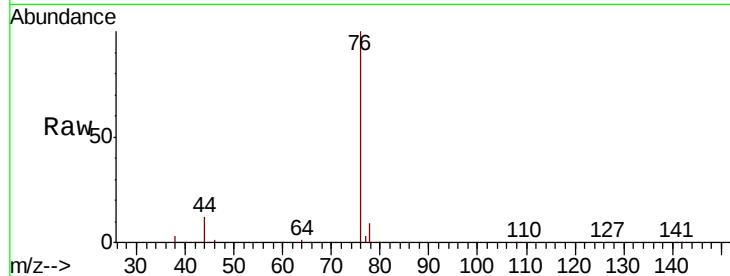
#17
Carbon Disulfide
Concen: 39.72 ug/l
RT: 4.05 min Scan# 764
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1081204
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9

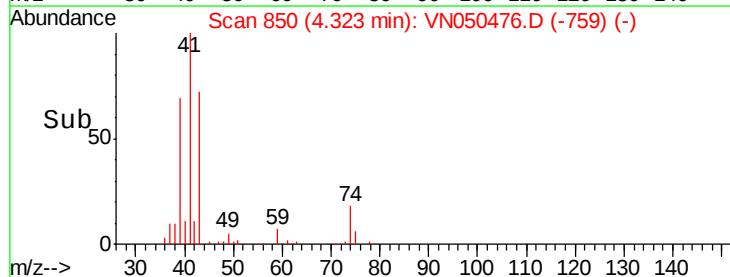
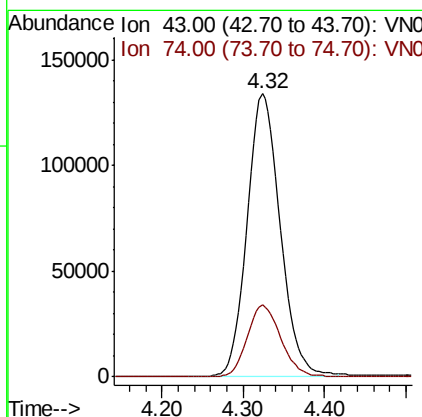
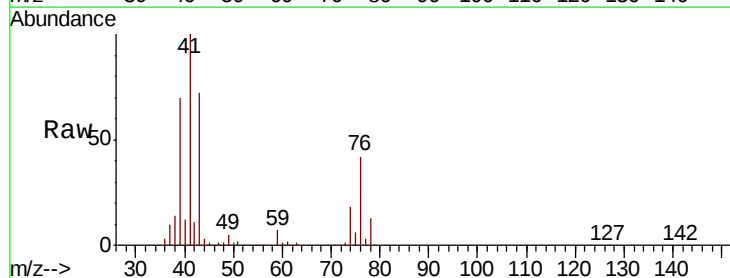
Manual Integrations
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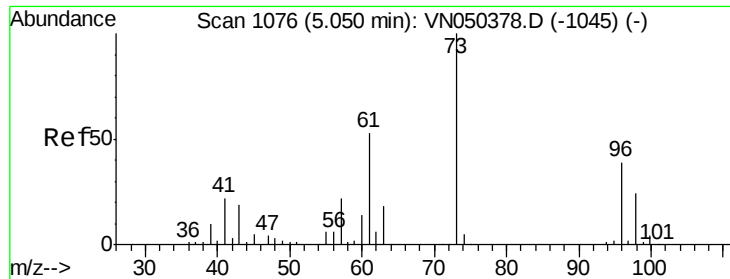
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#18
Methyl Acetate
Concen: 46.32 ug/l
RT: 4.32 min Scan# 850
Delta R.T. -0.01 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion: 43 Resp: 371438
Ion Ratio Lower Upper
43 100
74 26.1 19.2 28.8





#19

Methyl tert-butyl Ether

Concen: 46.63 ug/l

RT: 5.05 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Tot Ion: 73 Resp: 1107891

Ion Ratio Lower Upper

73 100

57 22.3 18.0 27.0

Instrument :

MSVOA_N

ClientSampleId :

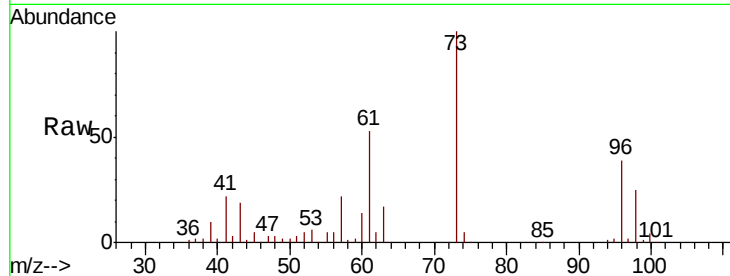
VSTDCCC050

Manual Integrations

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Abundance Ion 73.00 (72.70 to 73.70): VN050378.D (-1045) (-)

Ion 57.00 (56.70 to 57.70): VN050378.D (-1045) (-)

5.05

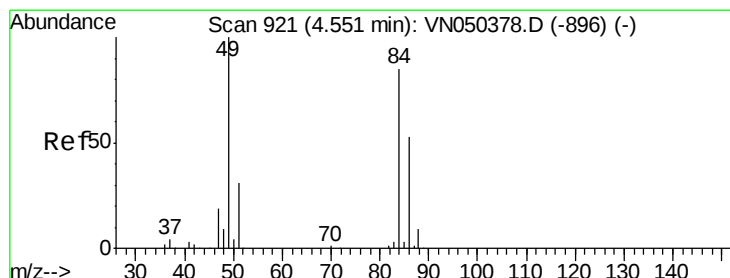
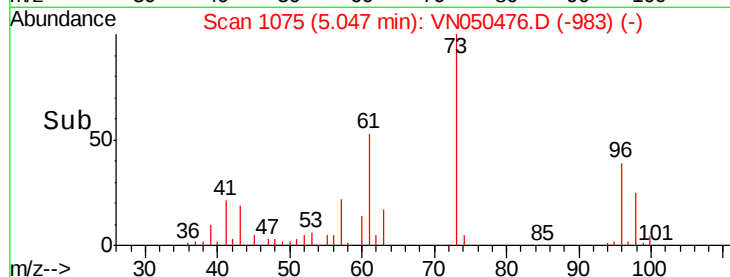
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 46.52 ug/l

RT: 4.55 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Tgt Ion: 84 Resp: 439981

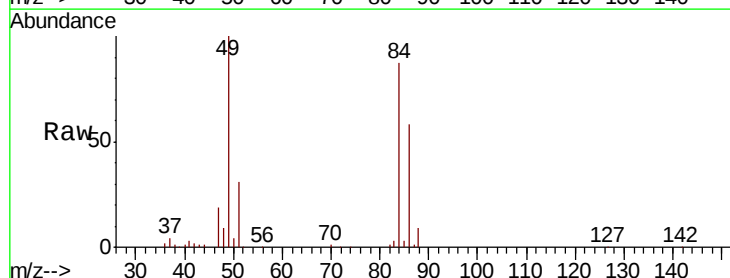
Ion Ratio Lower Upper

84 100

49 114.9 94.8 142.2

51 35.7 28.3 42.5

86 66.1 51.0 76.6



Abundance Ion 83.90 (83.60 to 84.60): VN050378.D (-896) (-)

Ion 48.90 (48.60 to 49.60): VN050378.D (-896) (-)

Ion 50.90 (50.60 to 51.60): VN050378.D (-896) (-)

Ion 85.90 (85.60 to 86.60): VN050378.D (-896) (-)

4.55

250000

200000

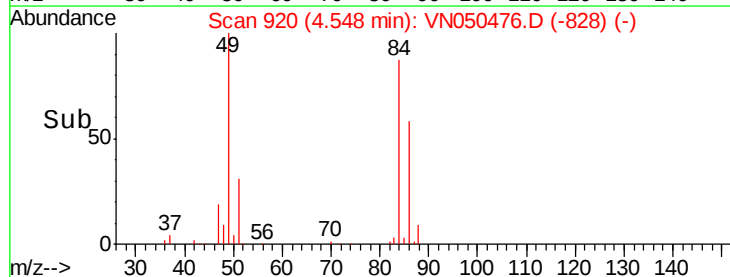
150000

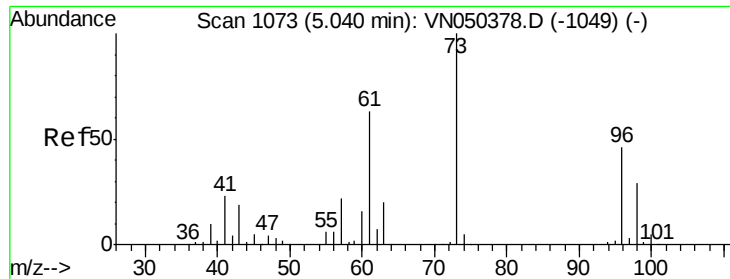
100000

50000

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: 44.34 ug/l

RT: 5.04 min Scan# 1072

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 401708

Ion Ratio Lower Upper

96 100

61 134.9 110.7 166.1

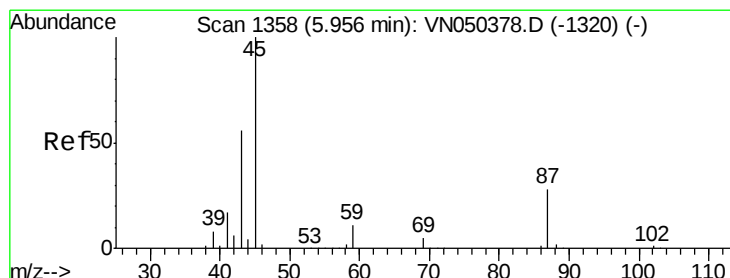
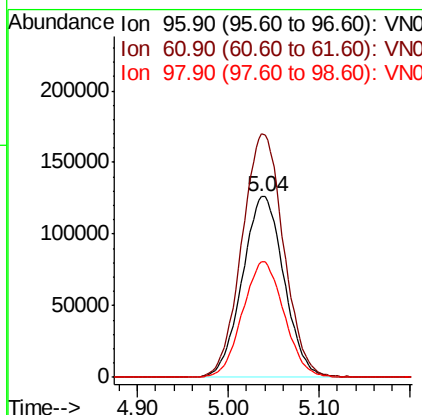
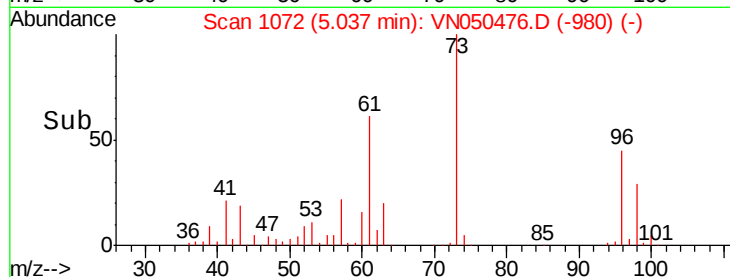
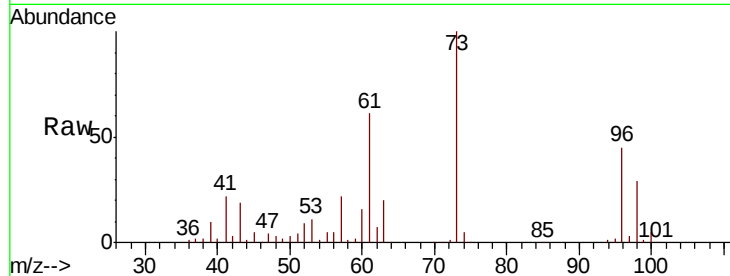
98 64.2 51.6 77.4

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#22

Diisopropyl ether

Concen: 47.25 ug/l

RT: 5.95 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Tgt Ion: 45 Resp: 1297677

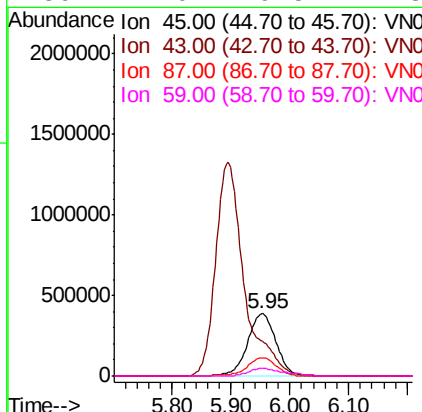
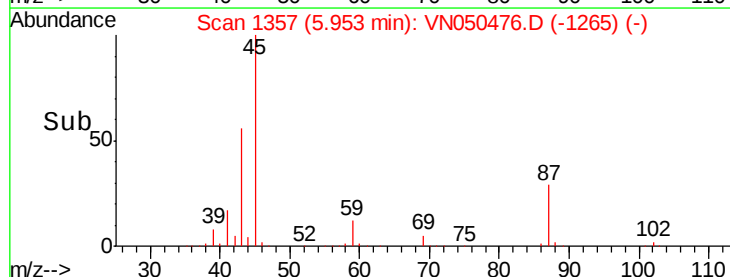
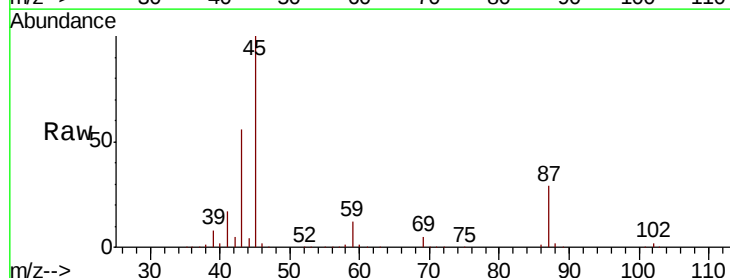
Ion Ratio Lower Upper

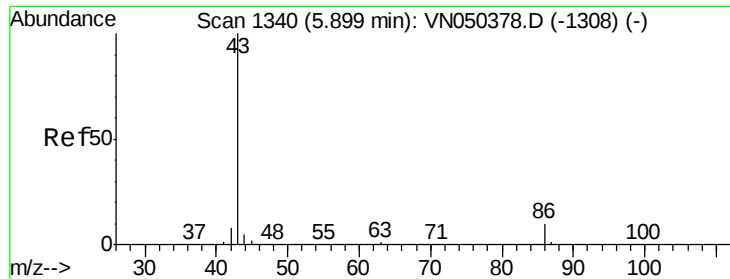
45 100

43 55.2 45.7 68.5

87 29.3 22.7 34.1

59 12.0 9.5 14.3





#23

Vinyl Acetate

Concen: 228.45 ug/l

RT: 5.90 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 43 Resp: 4476317

Ion Ratio Lower Upper

43 100

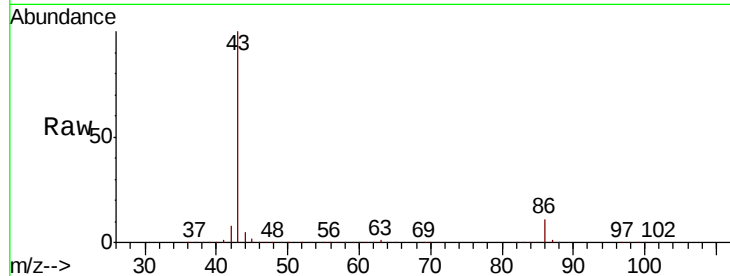
86 11.2 8.6 13.0

Manual Integrations

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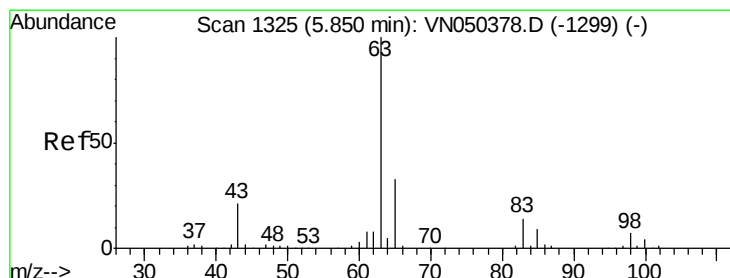
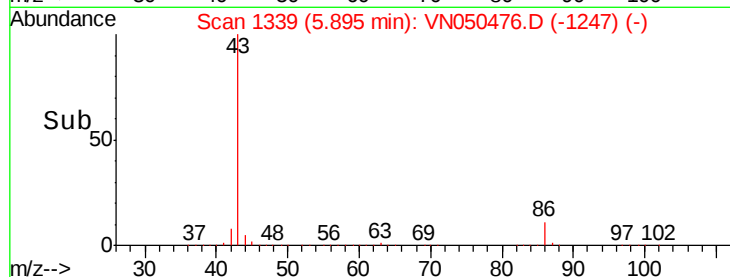
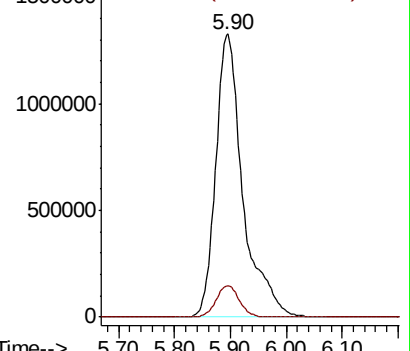
MMDadoda

8/10/2018 10:52:19 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 44.29 ug/l

RT: 5.85 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

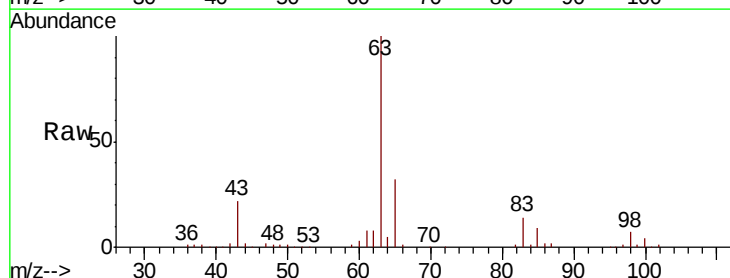
Tgt Ion: 63 Resp: 746264

Ion Ratio Lower Upper

63 100

98 7.0 3.3 9.8

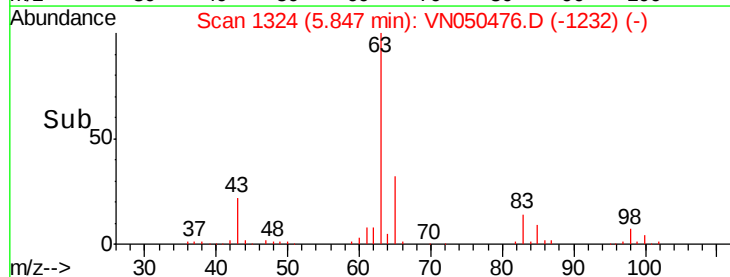
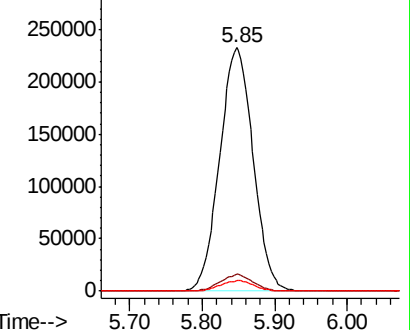
100 4.3 2.1 6.3

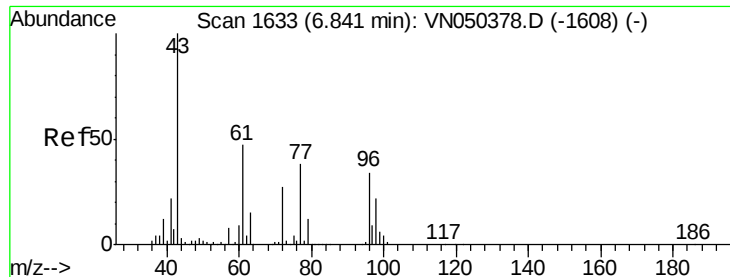


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





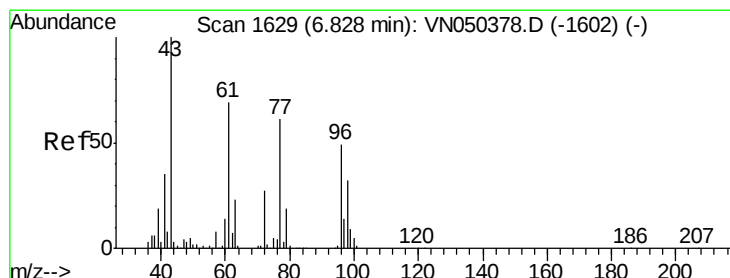
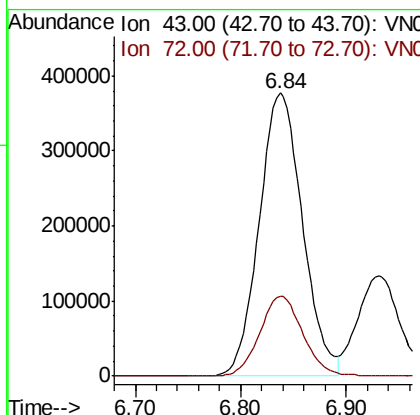
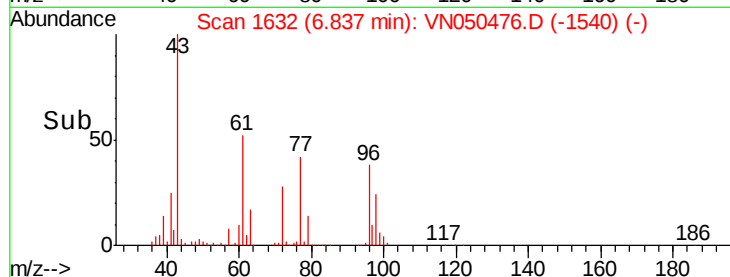
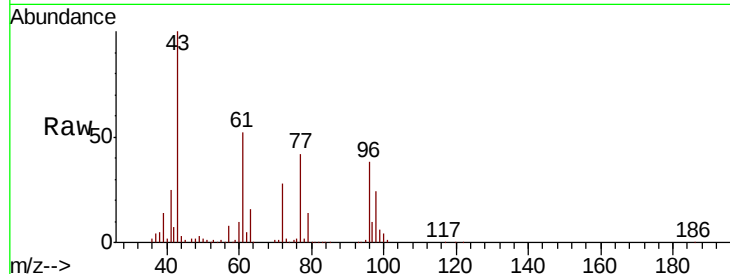
#25
2-Butanone
Concen: 209.25 ug/l
RT: 6.84 min Scan# 1632
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1072736
Ion Ratio Lower Upper
43 100
72 28.3 21.5 32.3

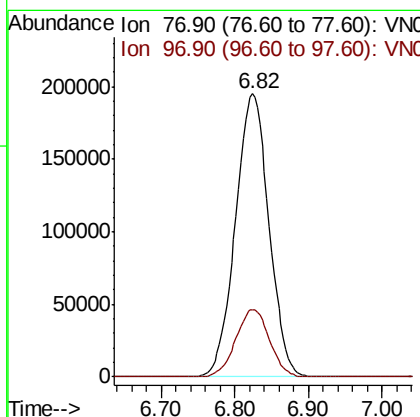
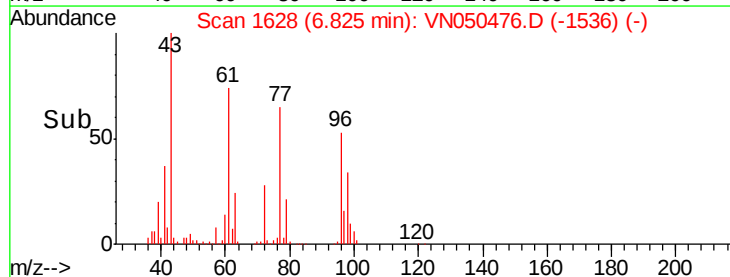
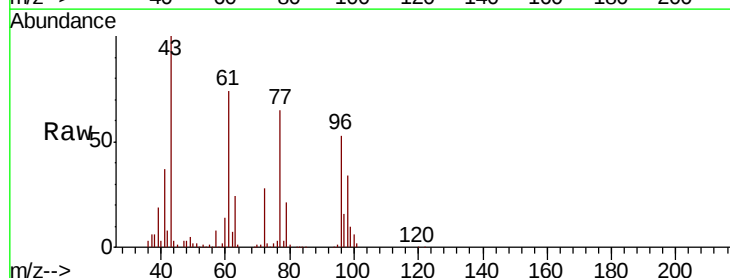
Manual Integrations
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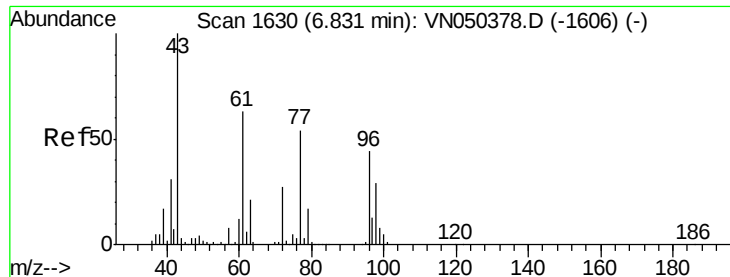
MMDadoda
8/10/2018 10:52:19 AM



#26
2,2-Dichloropropane
Concen: 44.43 ug/l
RT: 6.82 min Scan# 1628
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion: 77 Resp: 617225
Ion Ratio Lower Upper
77 100
97 24.0 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 46.86 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050476.D

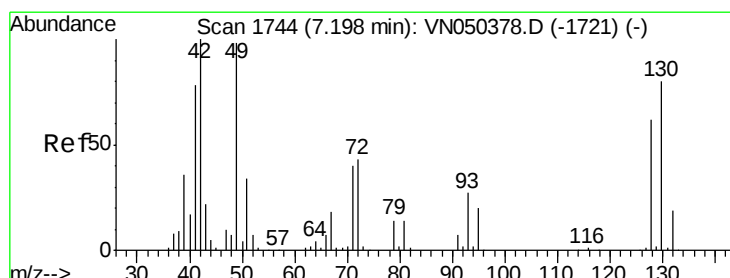
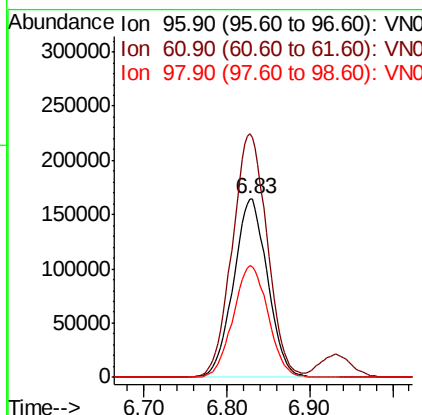
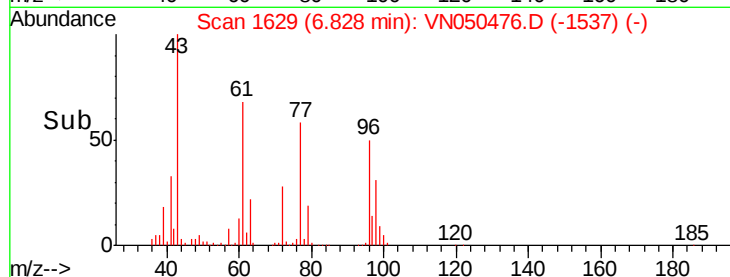
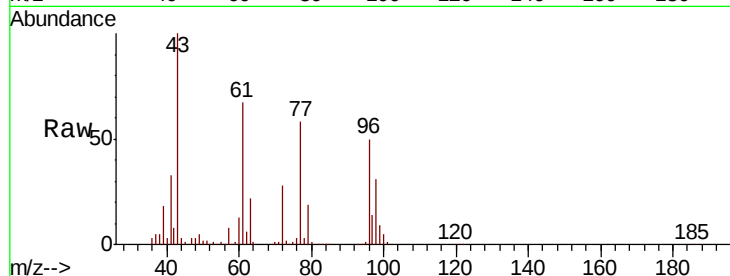
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.7	0.0	285.0
98	64.0	0.0	129.2

Manual Integrations
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8/10/2018 10:52:19 AM



#28

Bromochloromethane

Concen: 45.82 ug/l

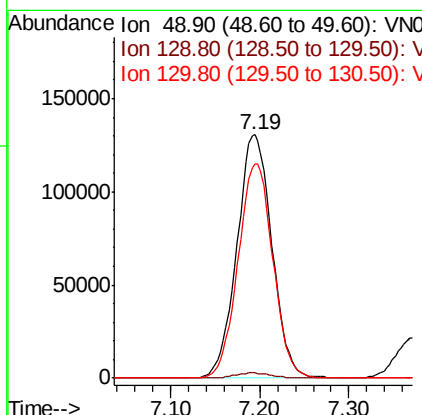
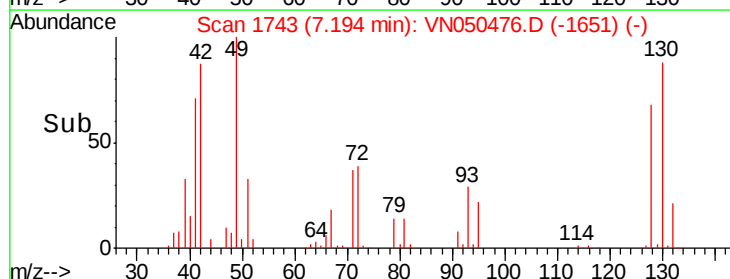
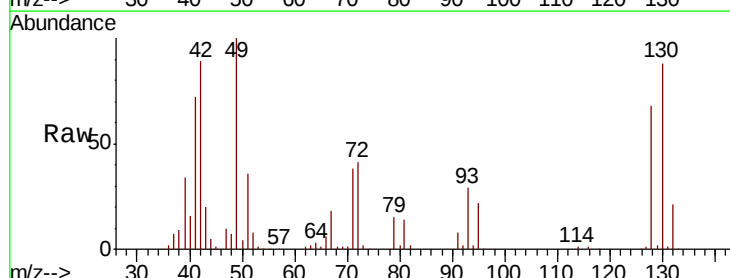
RT: 7.19 min Scan# 1743

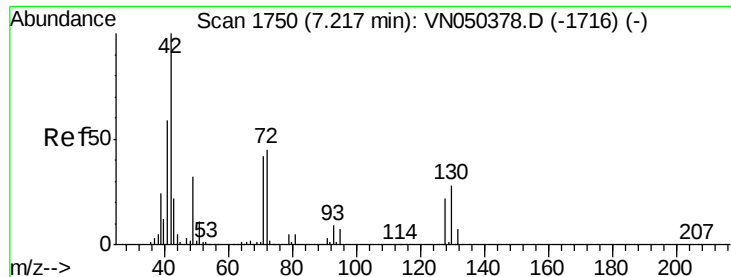
Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.0
130	87.4	66.3	99.5





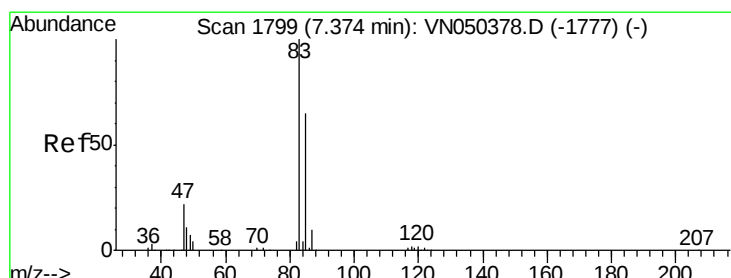
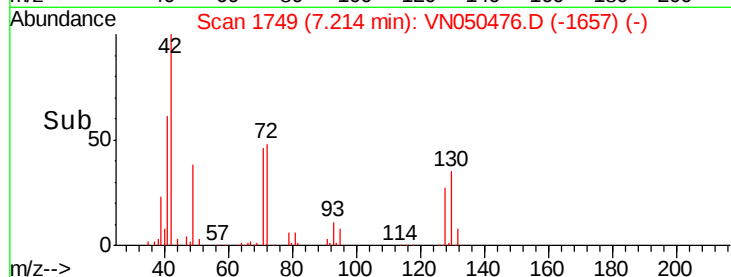
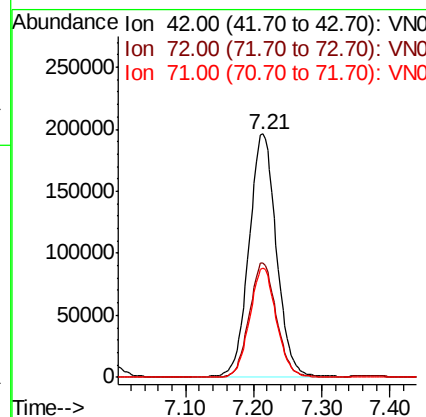
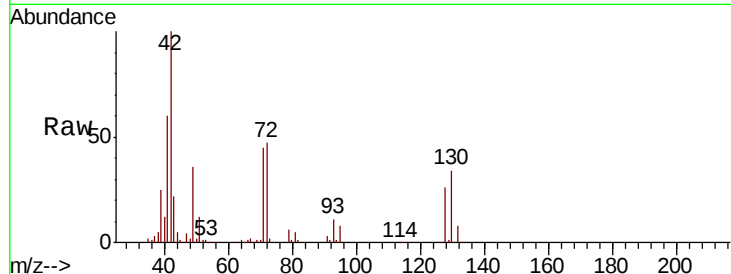
#29
Tetrahydrofuran
Concen: 200.12 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.0	35.9	53.9
71	43.5	33.7	50.5

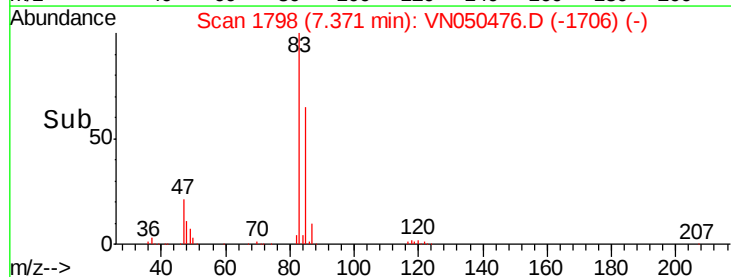
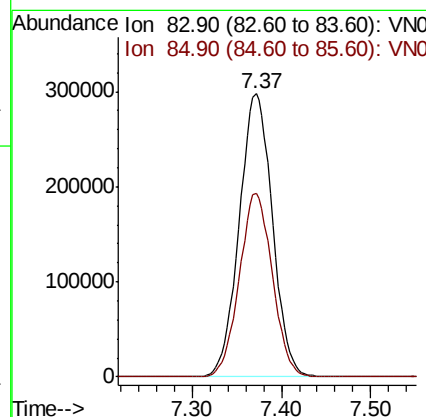
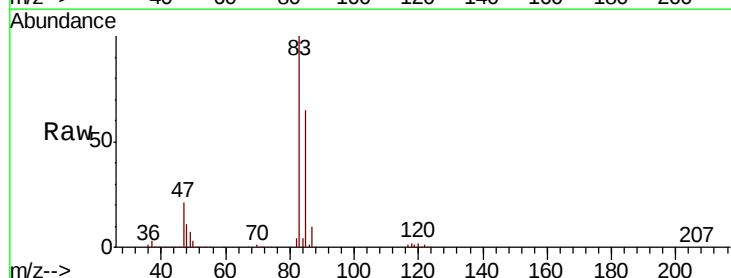
Manual Integrations
APPROVED

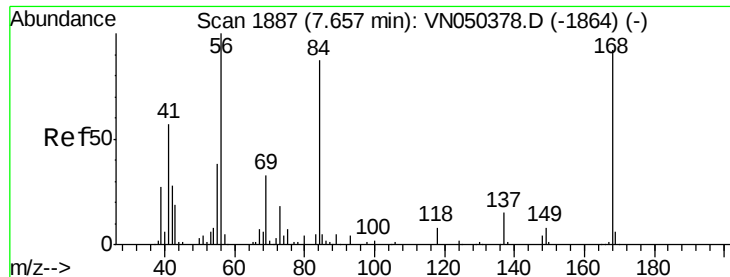
MMDadoda
8/10/2018 10:52:19 AM



#30
Chloroform
Concen: 45.69 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.5	78.7





#31

Cyclohexane

Concen: 44.10 ug/l

RT: 7.65 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 655169

Ion Ratio Lower Upper

56 100

69 33.0 26.2 39.4

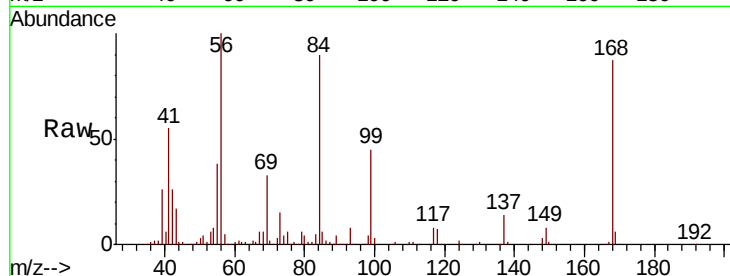
84 88.9 67.4 101.0

Manual Integrations

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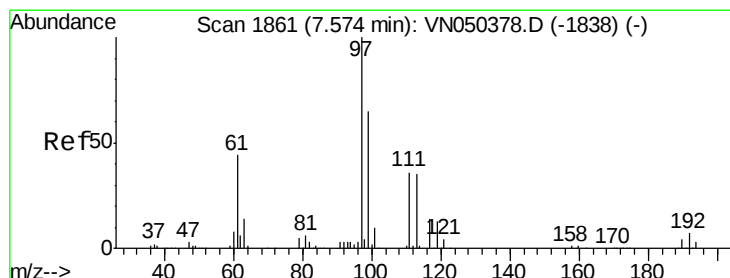
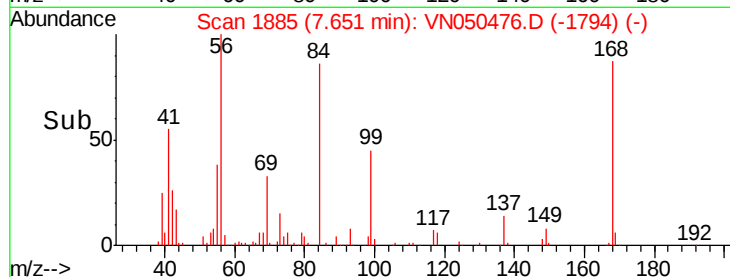
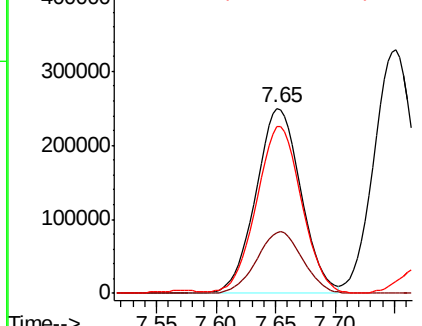
8/10/2018 10:52:19 AM



Abundance Ion 56.00 (55.70 to 56.70): VN050378.D (-1864) (-)

Ion 69.00 (68.70 to 69.70): VN050378.D (-1864) (-)

Ion 84.00 (83.70 to 84.70): VN050378.D (-1864) (-)



#32

1,1,1-Trichloroethane

Concen: 45.34 ug/l

RT: 7.57 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

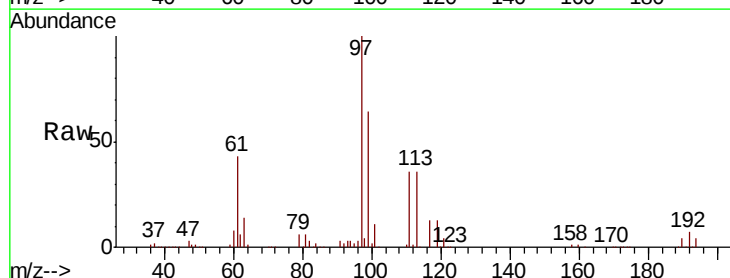
Tgt Ion: 97 Resp: 655951

Ion Ratio Lower Upper

97 100

99 64.3 51.4 77.0

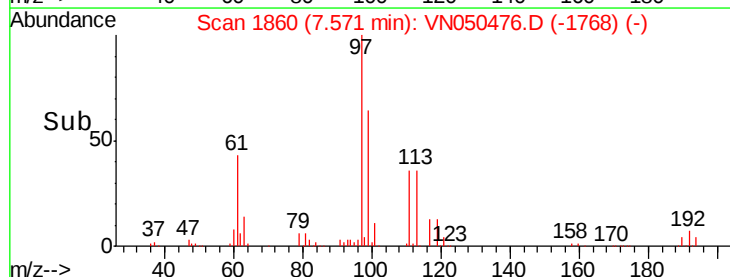
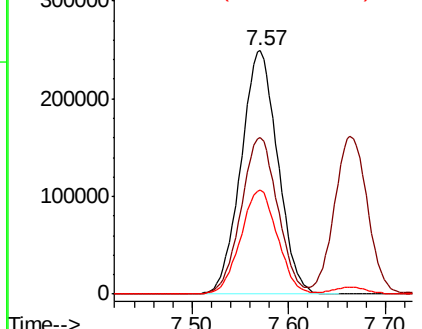
61 43.0 35.4 53.0

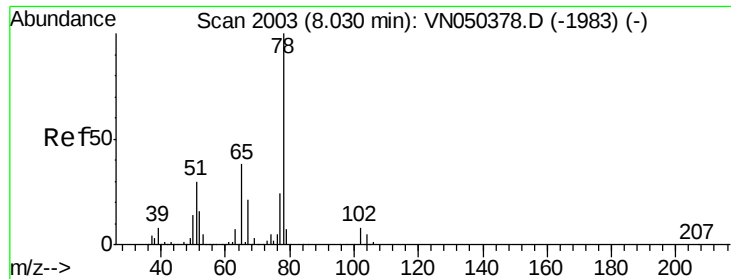


Abundance Ion 96.90 (96.60 to 97.60): VN050378.D (-1838) (-)

Ion 98.90 (98.60 to 99.60): VN050378.D (-1838) (-)

Ion 60.90 (60.60 to 61.60): VN050378.D (-1838) (-)





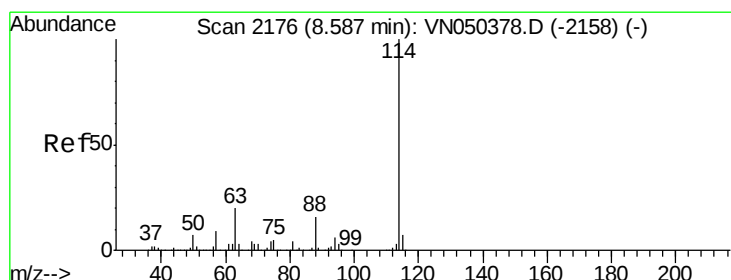
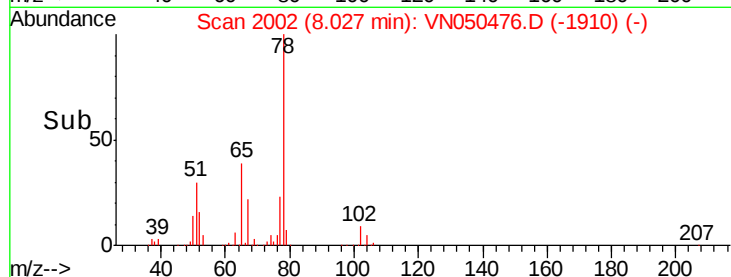
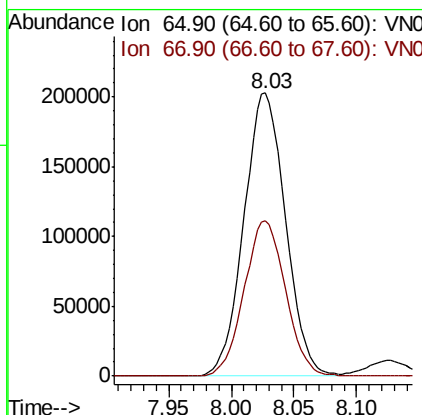
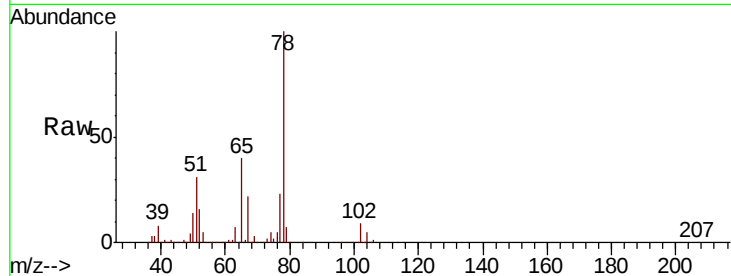
#33
 1,2-Dichloroethane-d4
 Concen: 45.31 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	468717		
67	54.5	0.0	108.4	

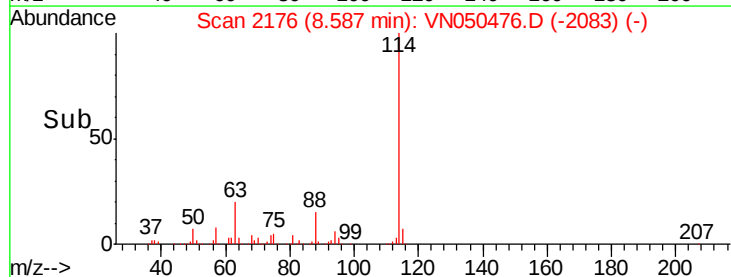
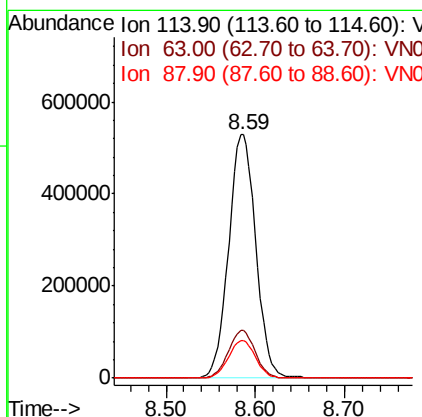
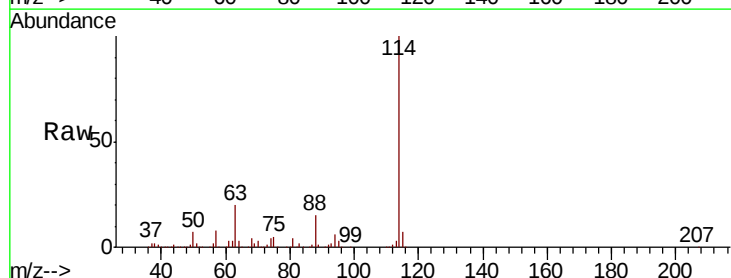
Manual Integrations
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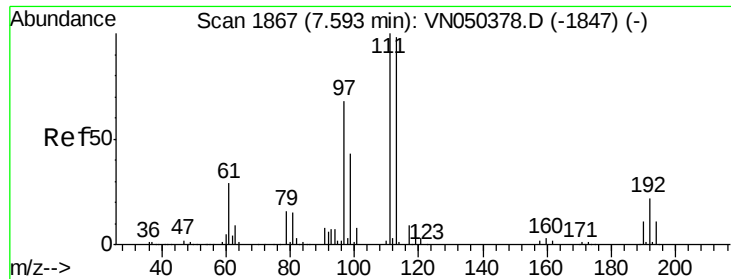
MMDadoda
 8/10/2018 10:52:19 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1112020		
63	19.7	0.0	40.0	
88	15.5	0.0	31.2	





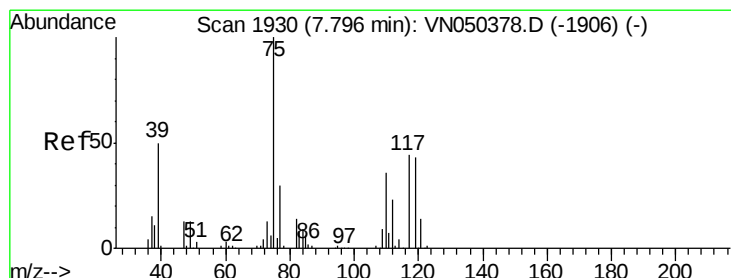
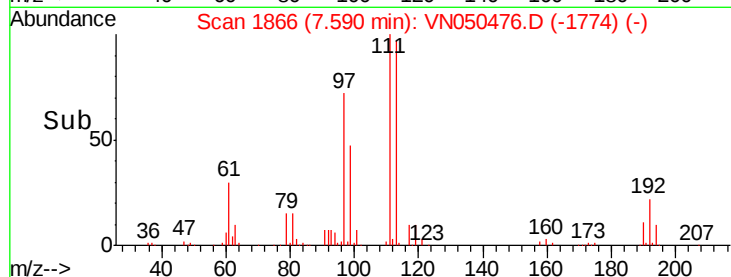
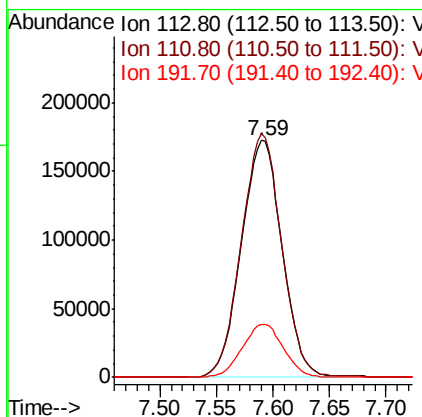
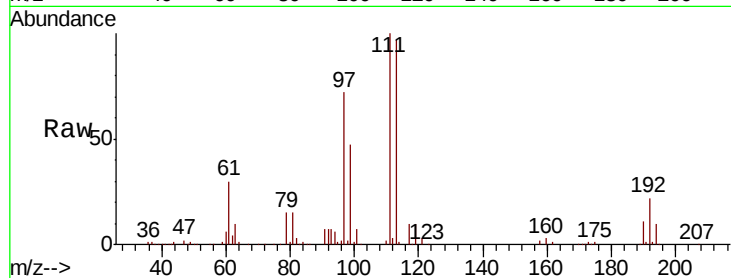
#35
Dibromofluoromethane
Concen: 48.42 ug/l
RT: 7.59 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	432066		
111	101.9	80.7	121.1	
192	22.7	17.8	26.6	

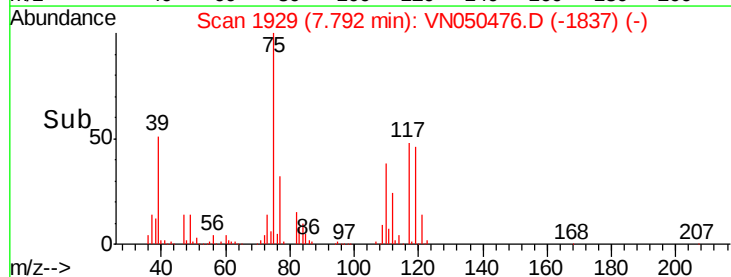
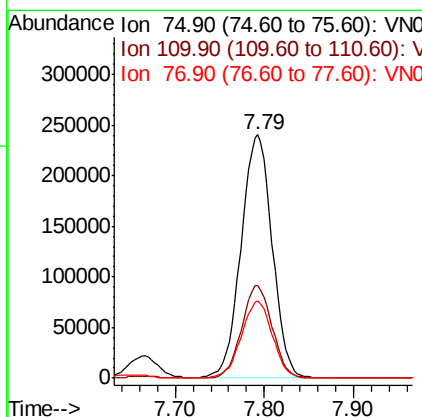
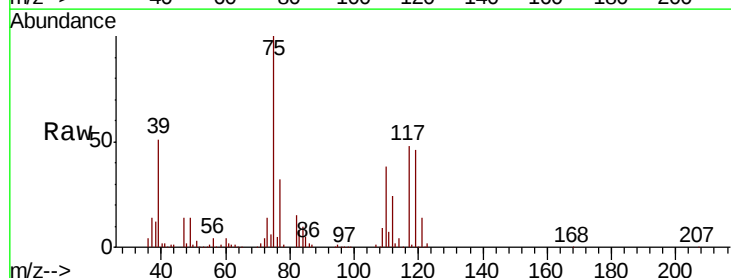
Manual Integrations
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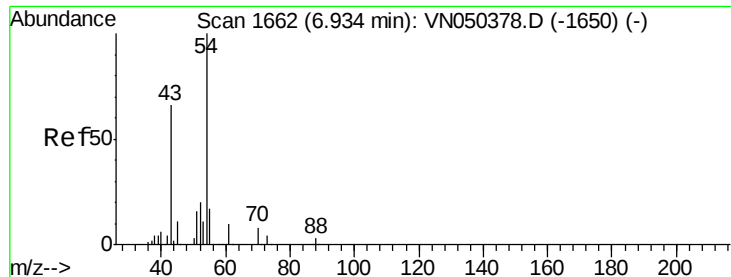
MMDadoda
8/10/2018 10:52:19 AM



#36
1,1-Dichloropropene
Concen: 47.57 ug/l
RT: 7.79 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	581206		
110	37.3	18.4	55.2	
77	31.6	25.3	37.9	





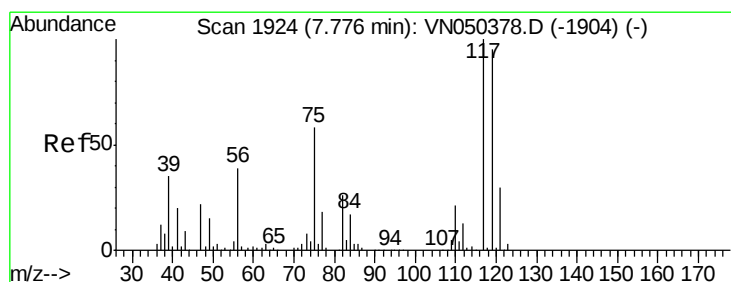
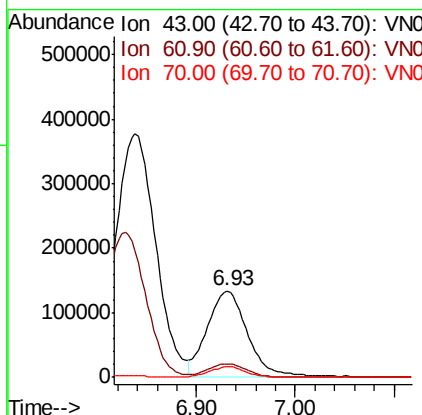
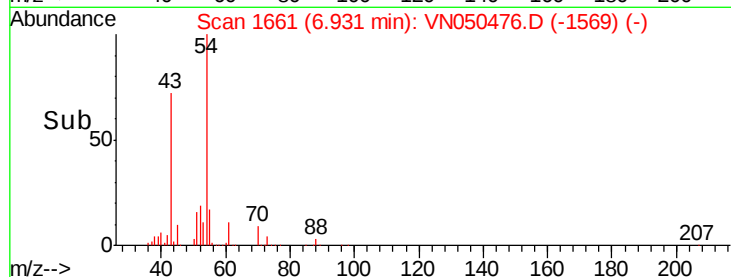
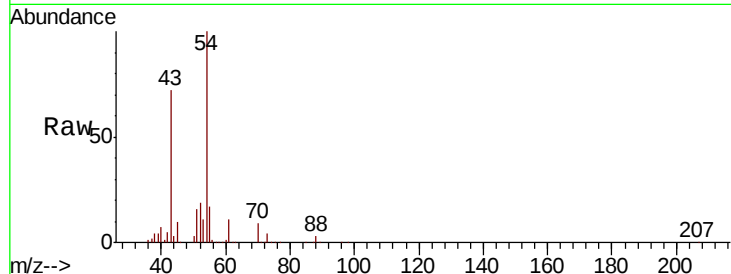
#37
Ethyl Acetate
Concen: 42.87 ug/l
RT: 6.93 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.8	17.8
70	11.4	8.4	12.6

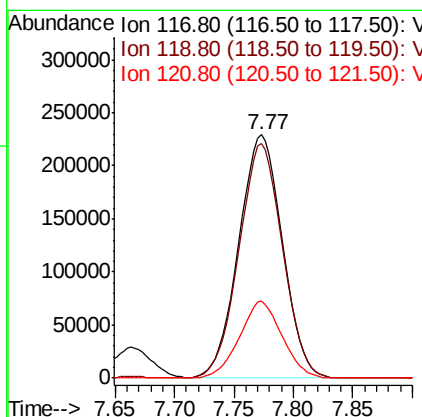
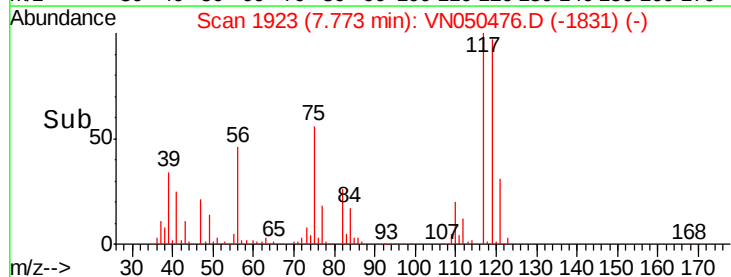
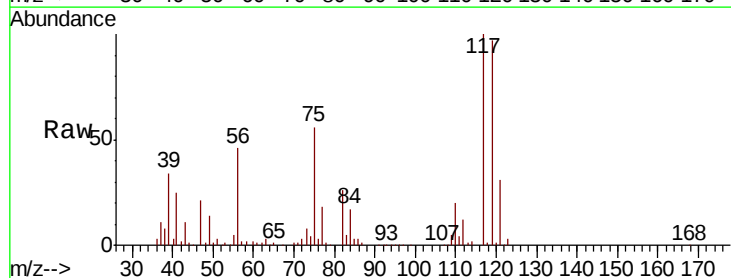
Manual Integrations
APPROVED

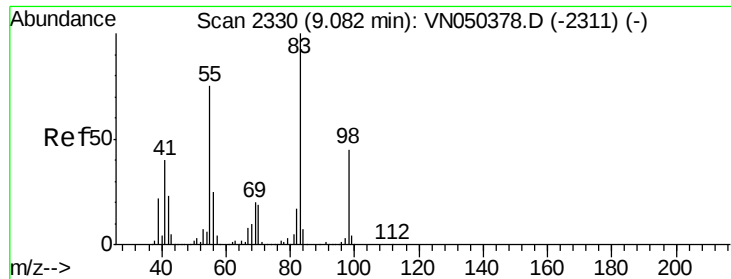
MMDadoda
8/10/2018 10:52:19 AM



#38
Carbon Tetrachloride
Concen: 45.57 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.4	116.0
121	31.5	23.9	35.9





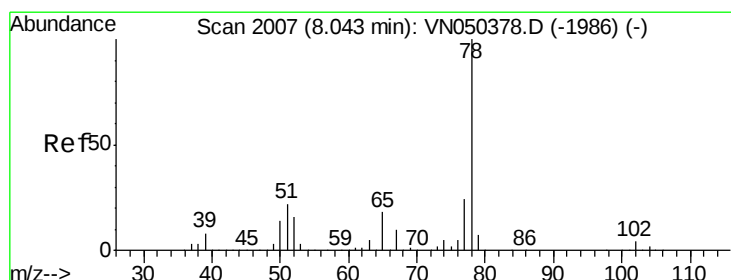
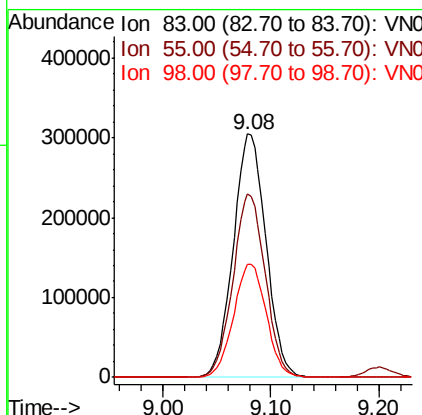
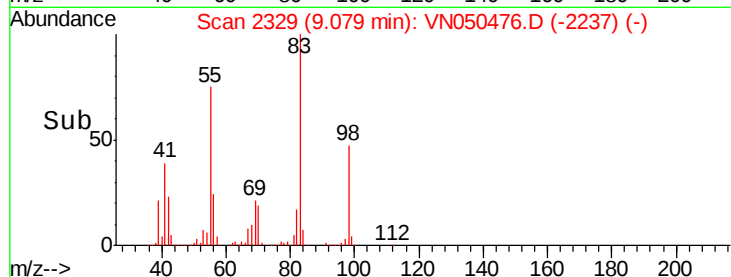
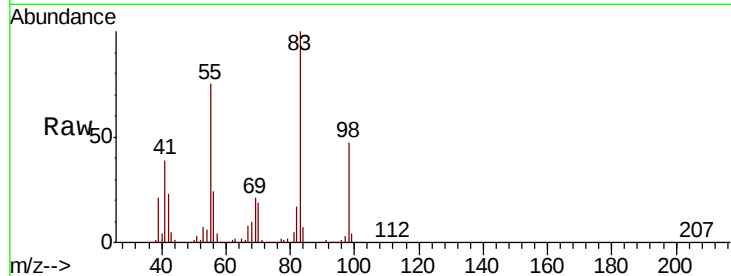
#39
Methvlcvclohexane
Concen: 48.31 ug/l
RT: 9.08 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	644318		
55	75.1		61.8	92.8
98	46.6		36.5	54.7

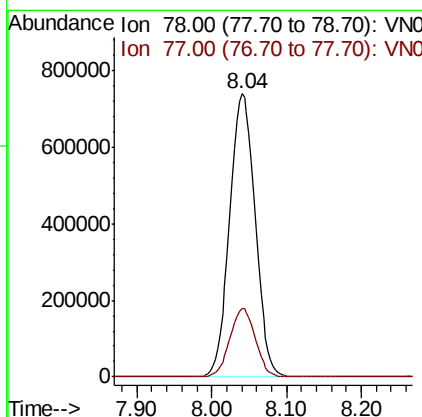
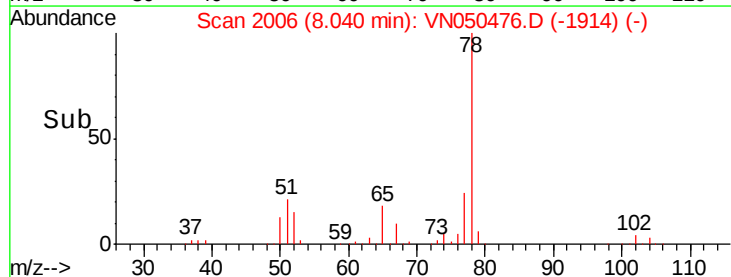
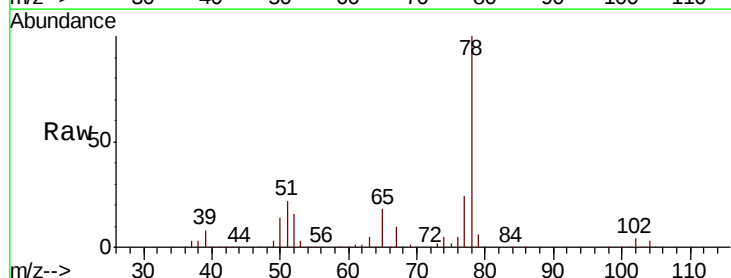
Manual Integrations
APPROVED

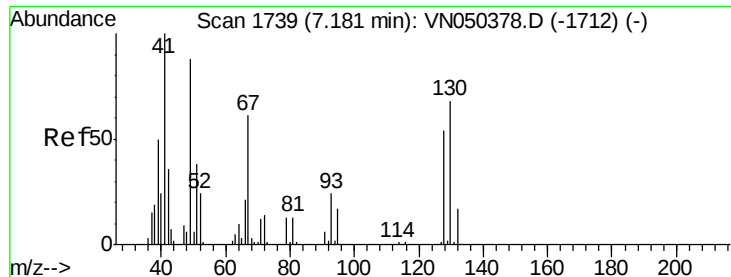
MMDadoda
8/10/2018 10:52:19 AM



#40
Benzene
Concen: 46.82 ug/l
RT: 8.04 min Scan# 2006
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	1758565		
77	24.1		18.7	28.1





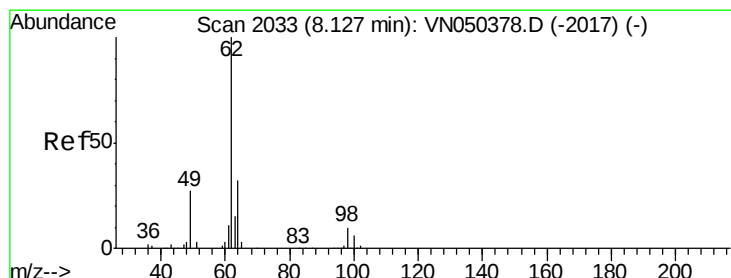
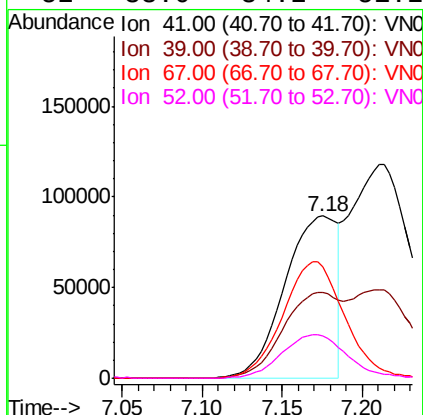
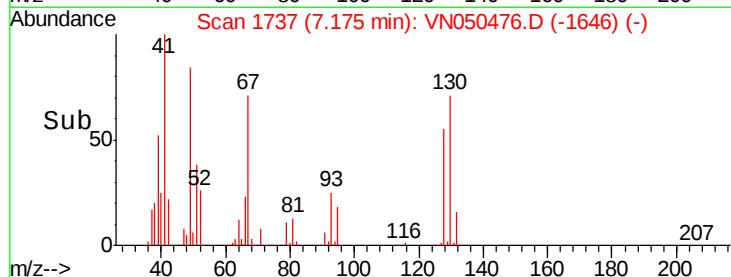
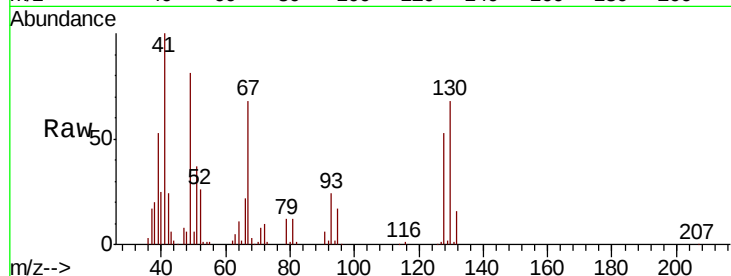
#41
Methacrylonitrile
Concen: 43.85 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. -0.01 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	57.8	55.8	83.6
67	84.3	84.3	126.5
52	33.0	34.2	51.2#

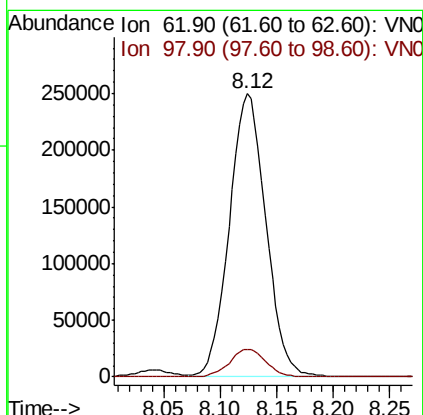
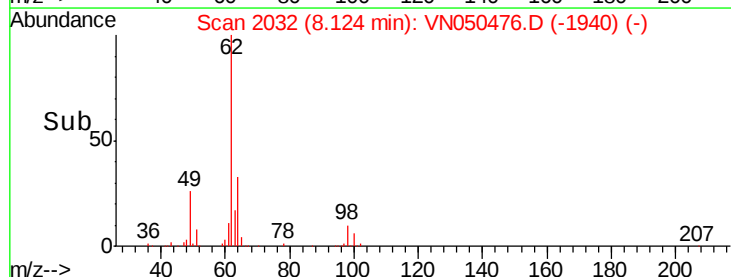
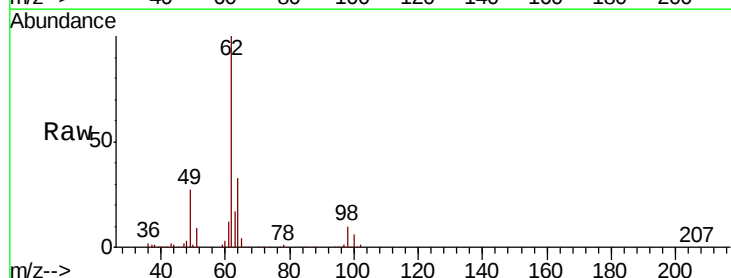
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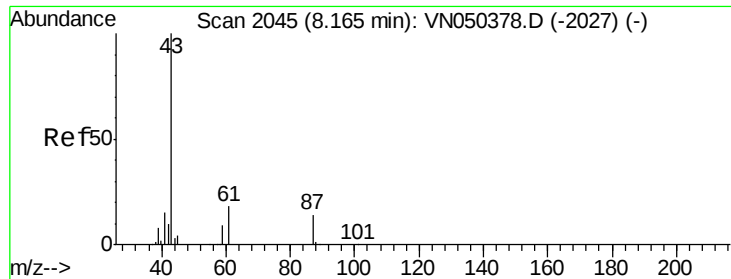
MMDadoda
8/10/2018 10:52:19 AM



#42
1,2-Dichloroethane
Concen: 46.93 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	18.8





#43

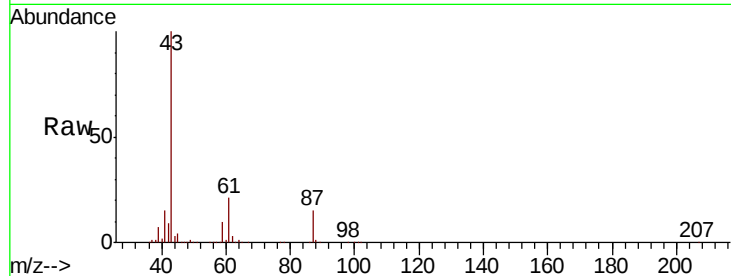
Isopropyl Acetate
 Concen: 44.42 ug/l
 RT: 8.17 min Scan# 2045
 Delta R.T. 0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.3	15.8	23.6
87	14.4	10.3	15.5

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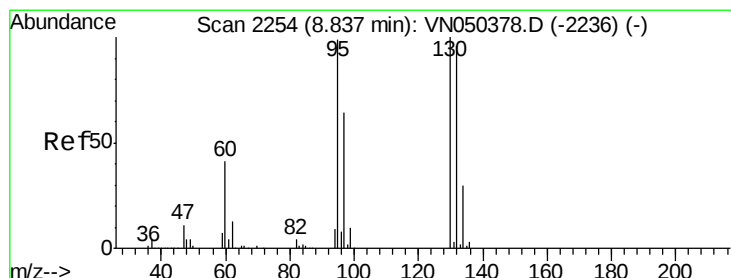
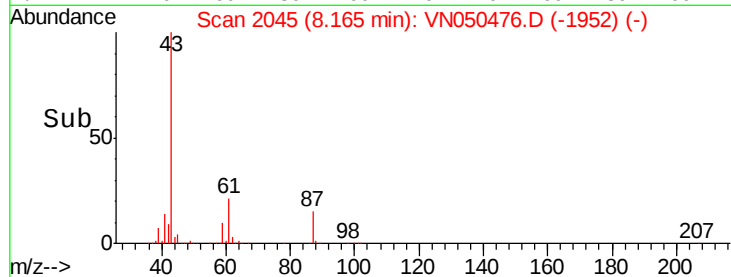
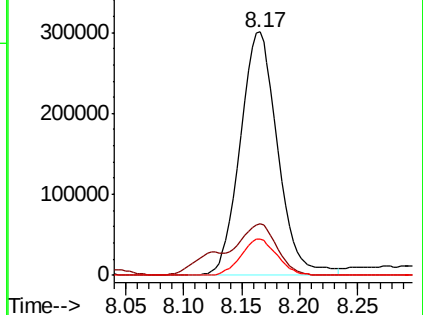


Abundance

Ion 43.00 (42.70 to 43.70): VN050378.D (-2027) (-)

Ion 61.00 (60.70 to 61.70): VN050378.D (-2027) (-)

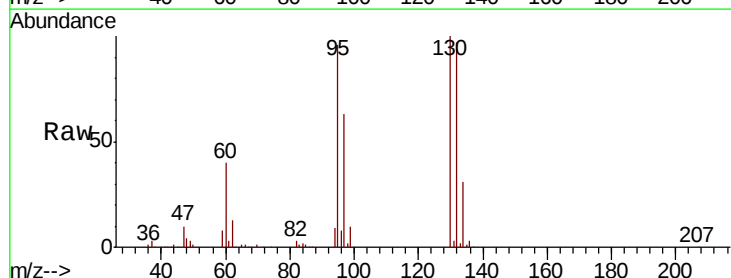
Ion 87.00 (86.70 to 87.70): VN050378.D (-2027) (-)



#44

Trichloroethene
 Concen: 47.45 ug/l
 RT: 8.83 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

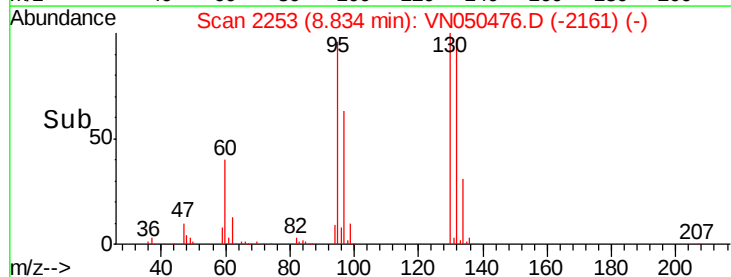
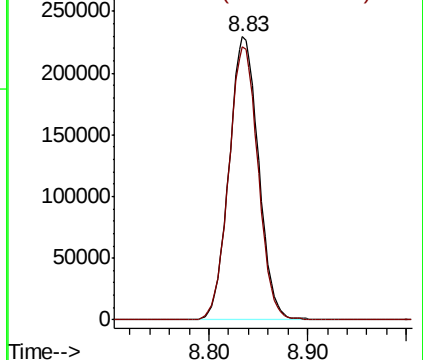
Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.4	0.0	194.6

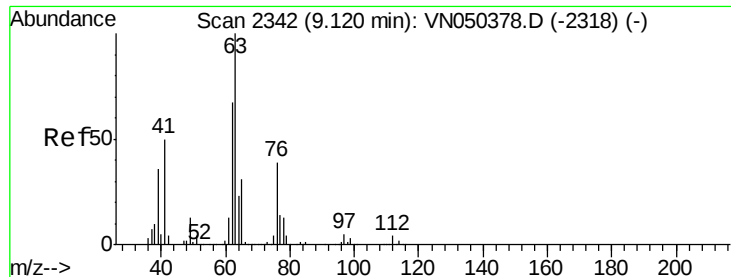


Abundance

Ion 129.80 (129.50 to 130.50): VN050378.D (-2236) (-)

Ion 94.90 (94.60 to 95.60): VN050378.D (-2236) (-)





#45

1,2-Dichloropropane

Concen: 47.04 ug/l

RT: 9.12 min Scan# 2341

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 464517

Ion Ratio Lower Upper

63 100

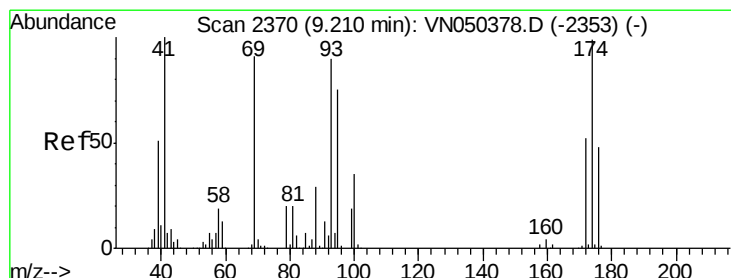
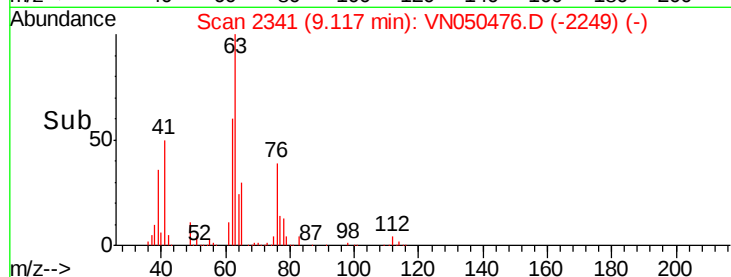
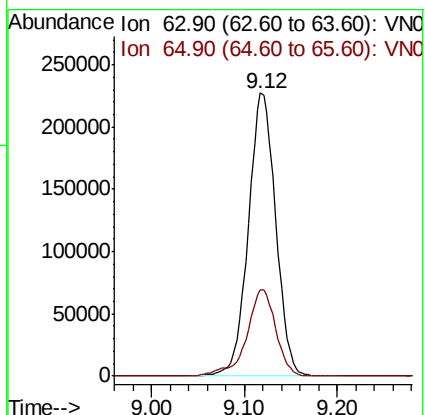
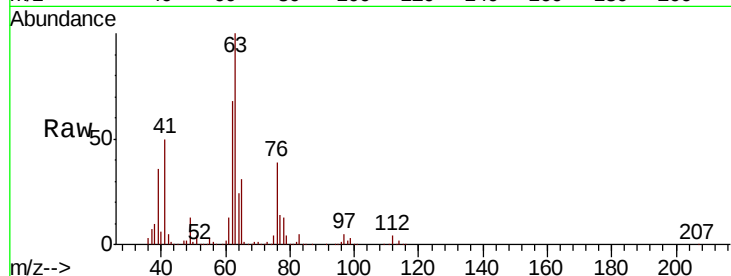
65 30.7 25.5 38.3

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#46

Dibromomethane

Concen: 46.97 ug/l

RT: 9.21 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

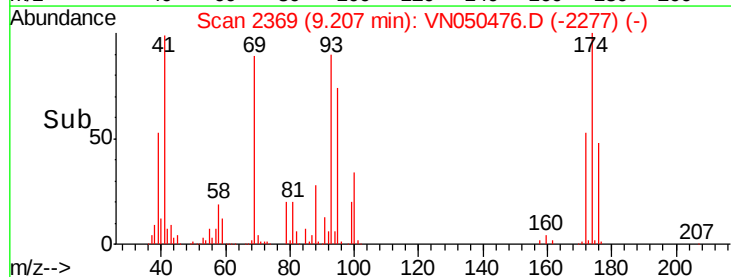
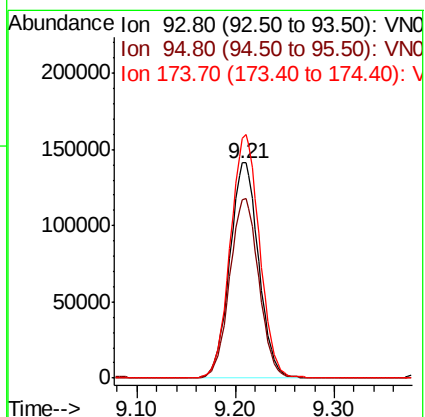
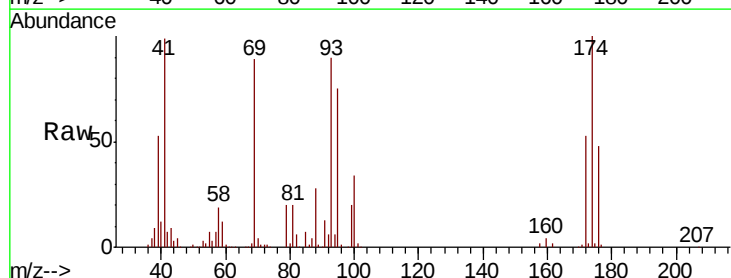
Tgt Ion: 93 Resp: 286467

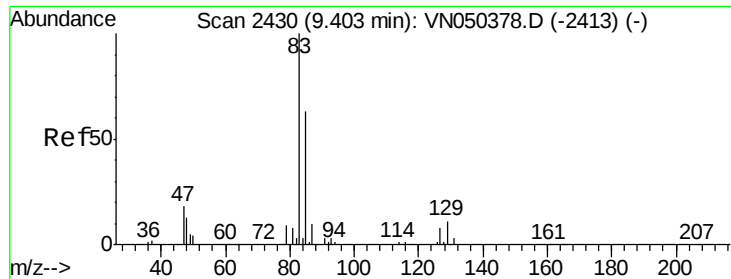
Ion Ratio Lower Upper

93 100

95 83.9 66.6 100.0

174 114.4 87.1 130.7





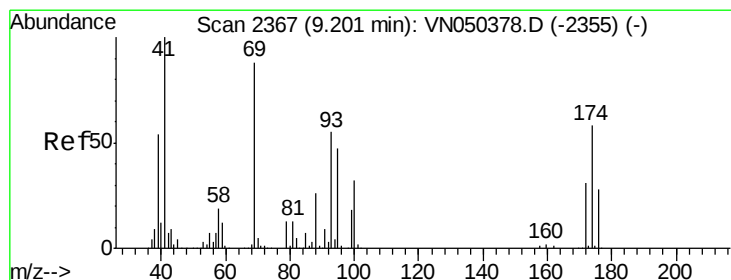
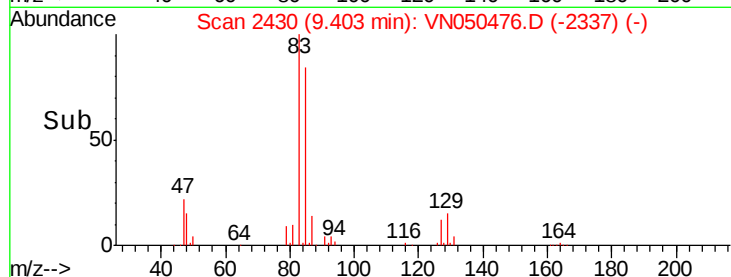
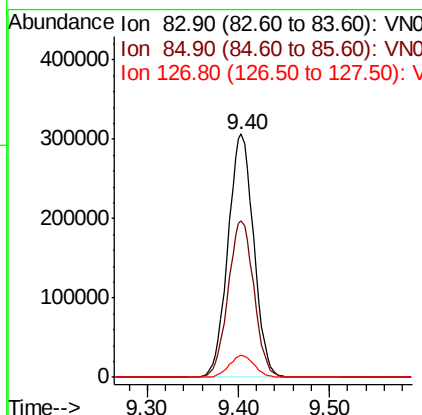
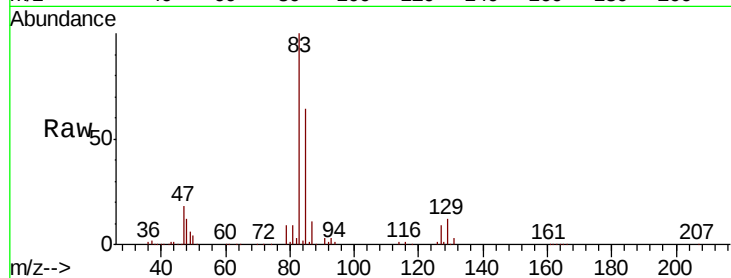
#47
 Bromodichloromethane
 Concen: 47.53 ug/l
 RT: 9.40 min Scan# 2430
 Delta R.T. 0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	83	Resp	600387
Ion Ratio	100		
85	64.4	51.1	76.7
127	9.0	7.0	10.4

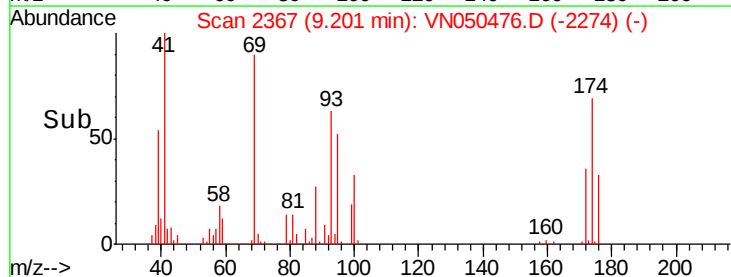
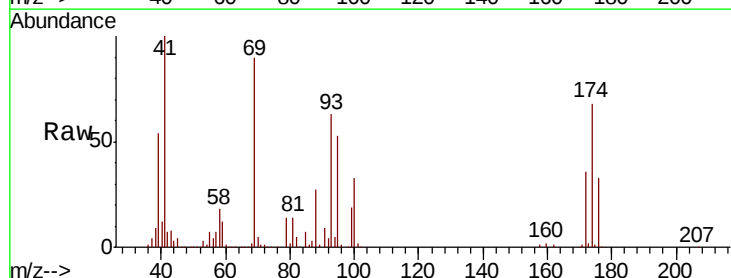
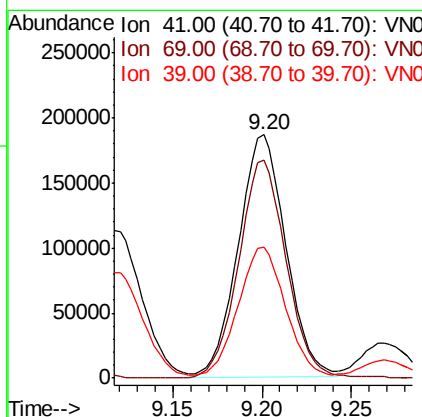
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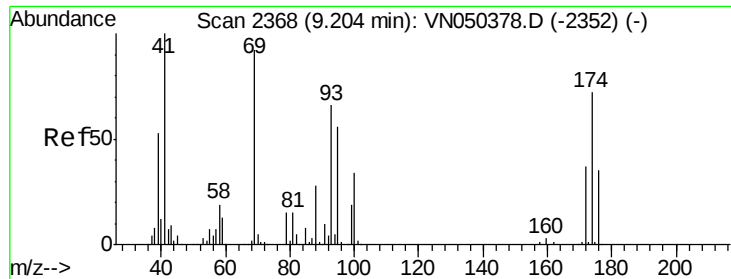
MMDadoda
 8/10/2018 10:52:19 AM



#48
 Methyl methacrylate
 Concen: 45.87 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. 0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Tgt Ion	41	Resp	349205
Ion Ratio	100		
69	90.0	70.6	105.8
39	53.8	43.9	65.9





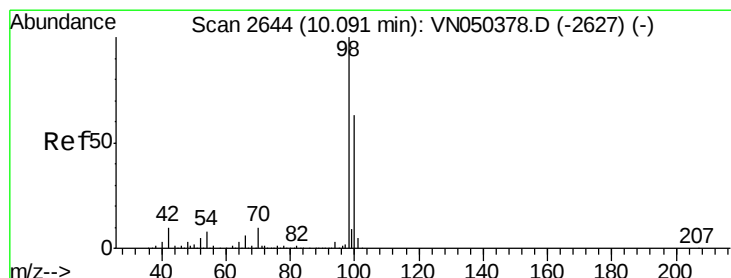
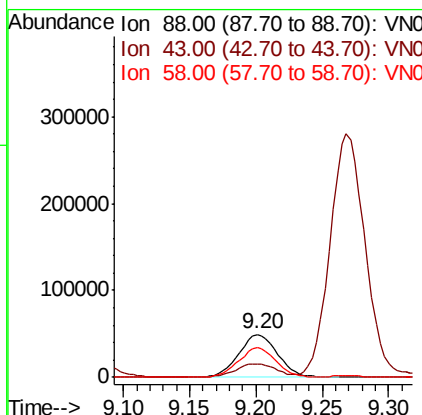
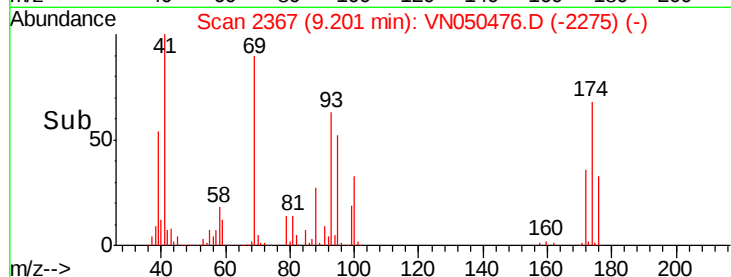
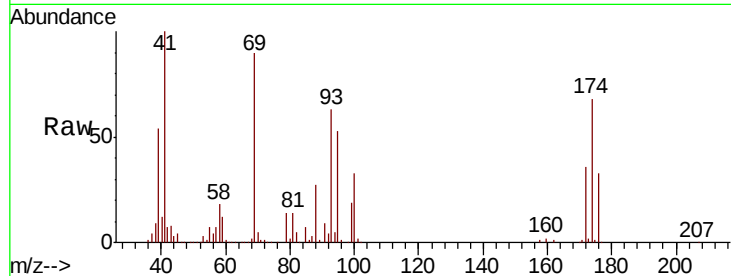
#49
1,4-Dioxane
Concen: 857.74 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.0	26.9	40.3
58	66.8	57.3	85.9

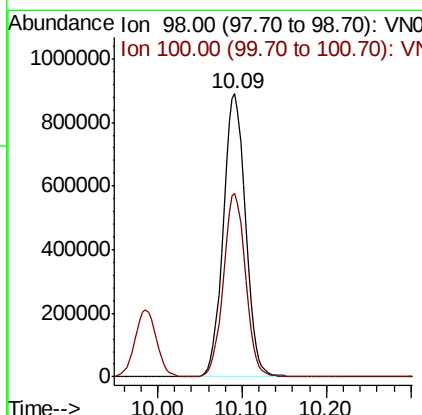
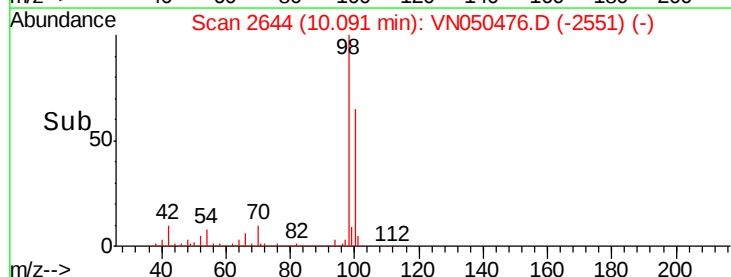
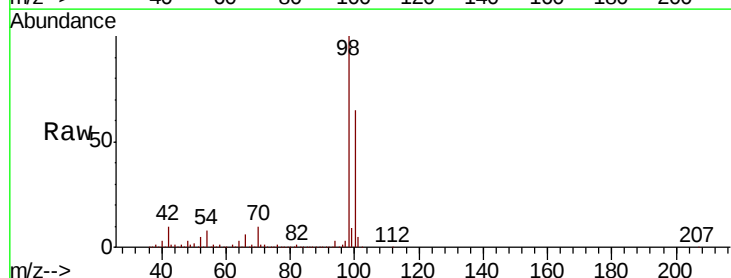
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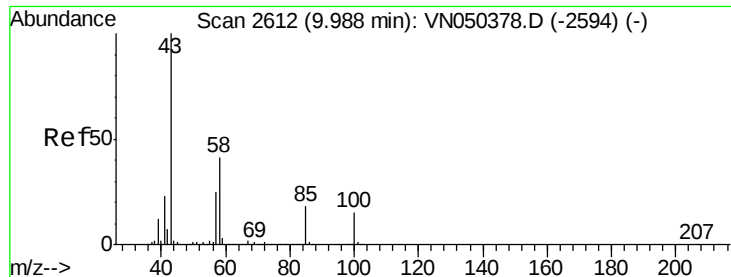
MMDadoda
8/10/2018 10:52:19 AM



#50
Toluene-d8
Concen: 48.61 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	50.7	76.1





#51

4-Methyl-2-Pentanone

Concen: 215.42 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 43 Resp: 2356481

Ion Ratio Lower Upper

43 100

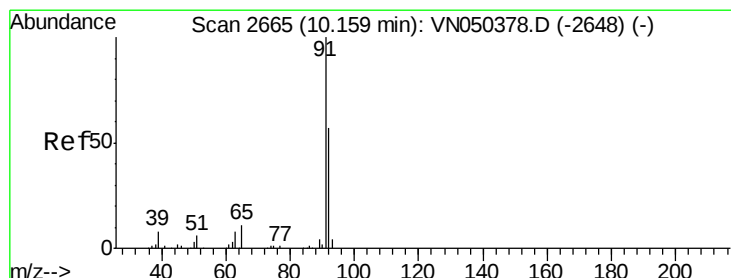
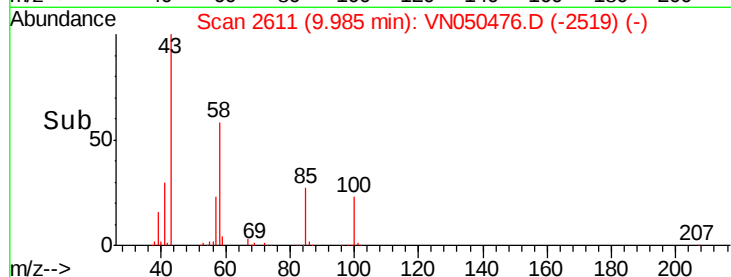
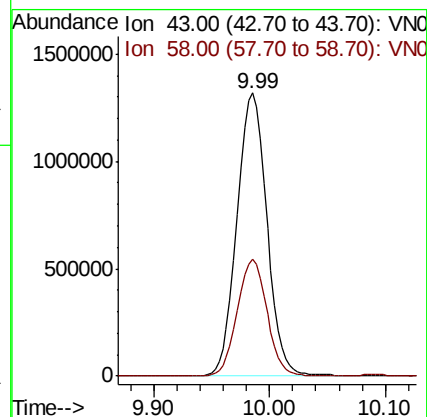
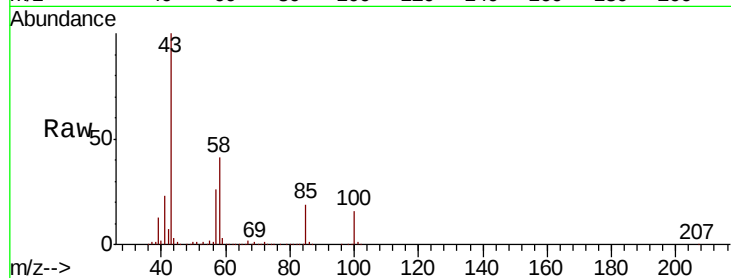
58 41.0 31.9 47.9

Manual Integrations

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MMDadoda

8/10/2018 10:52:19 AM



#52

Toluene

Concen: 49.79 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050476.D

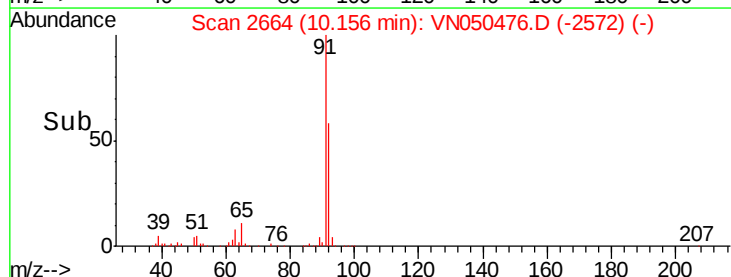
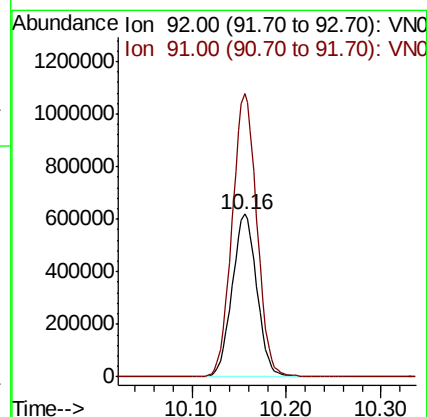
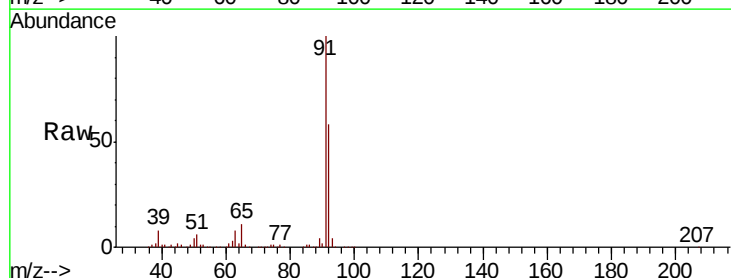
Acq: 9 Aug 2018 11:07

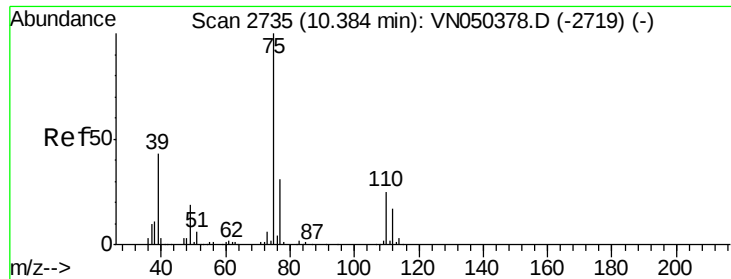
Tgt Ion: 92 Resp: 1123408

Ion Ratio Lower Upper

92 100

91 174.2 140.3 210.5





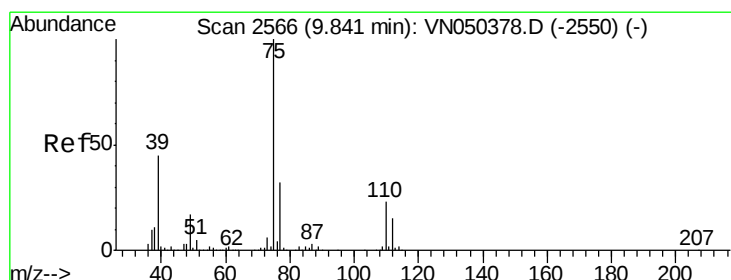
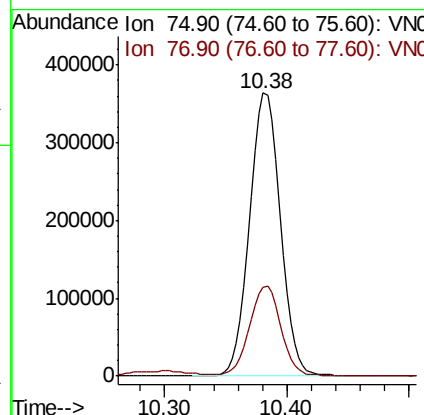
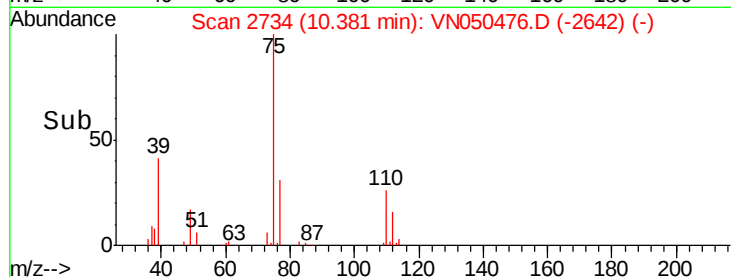
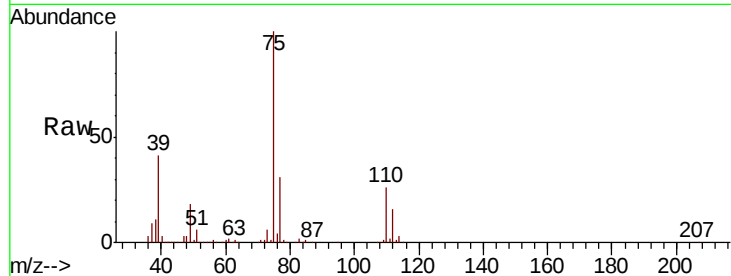
#53
t-1,3-Dichloropropene
Concen: 49.95 ug/l
RT: 10.38 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	24.9	37.3

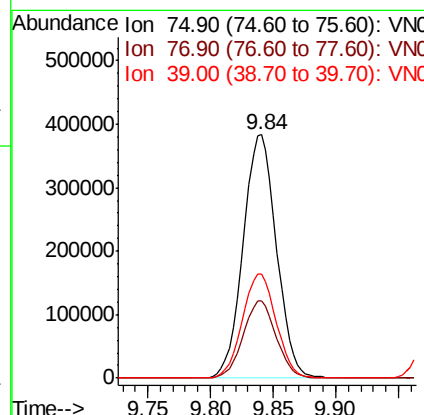
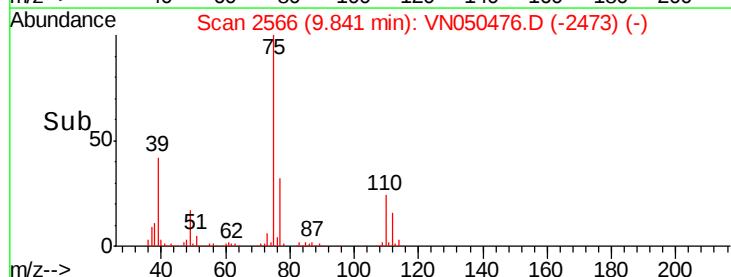
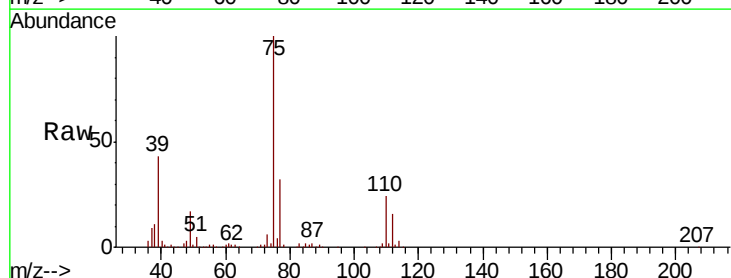
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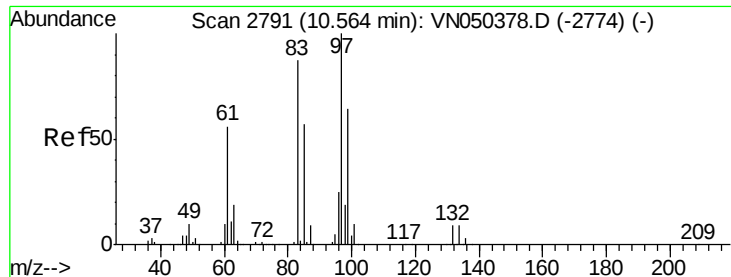
MMDadoda
8/10/2018 10:52:19 AM



#54
cis-1,3-Dichloropropene
Concen: 50.02 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.5	38.3
39	42.5	36.6	55.0





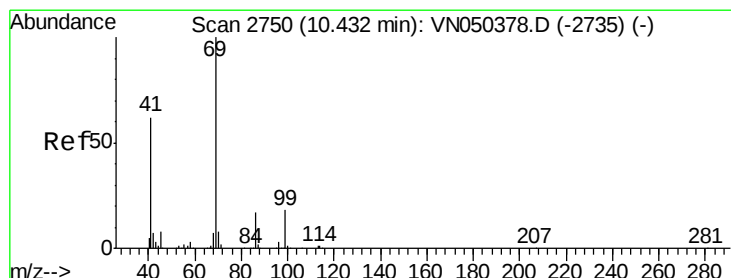
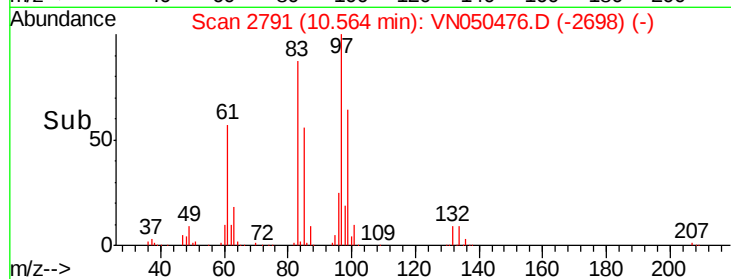
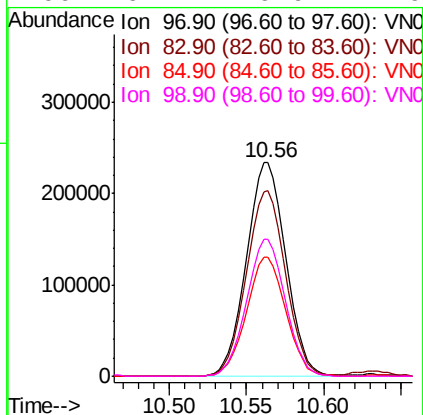
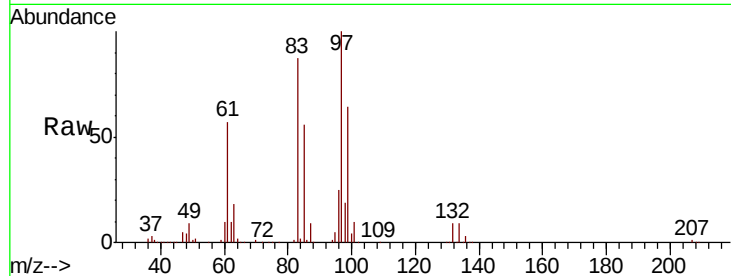
#55
 1,1,2-Trichloroethane
 Concen: 47.09 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		414824		
83	86.8	69.2	103.8		
85	55.7	44.0	66.0		
99	64.1	49.9	74.9		

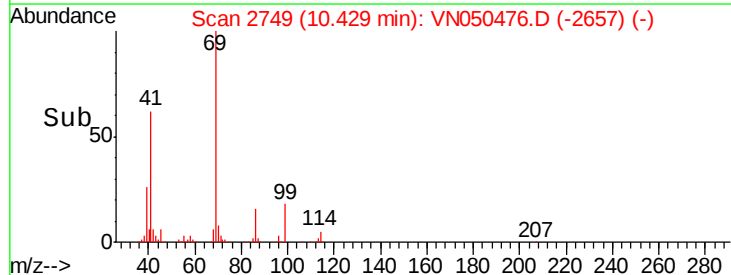
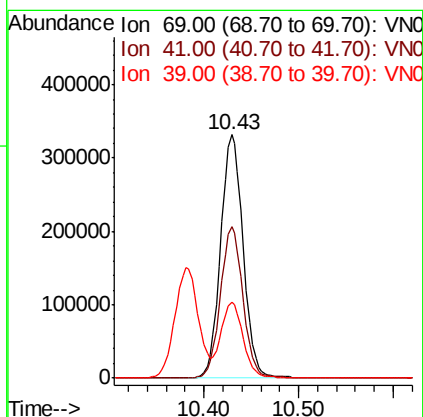
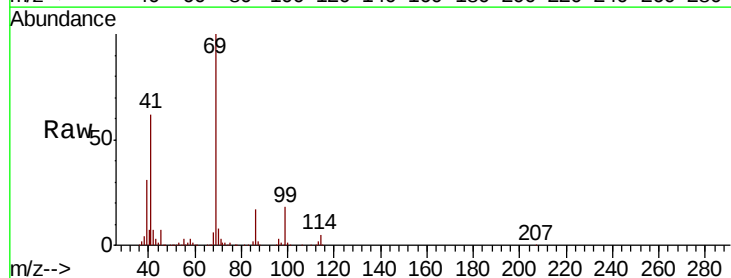
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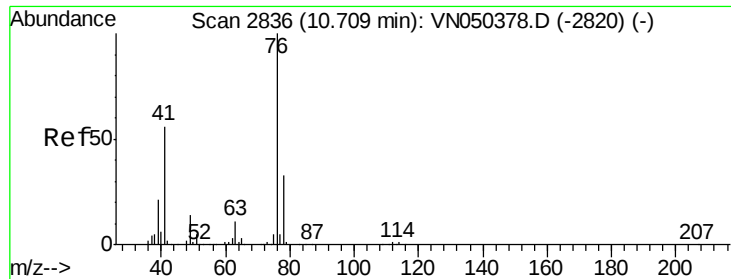
MMDadoda
 8/10/2018 10:52:19 AM



#56
 Ethyl methacrylate
 Concen: 44.13 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. -0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		547561		
41	62.0	51.0	76.4		
39	31.4	26.6	40.0		





#57

1,3-Dichloropropane

Concen: 48.22 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 76 Resp: 697231

Ion Ratio Lower Upper

76 100

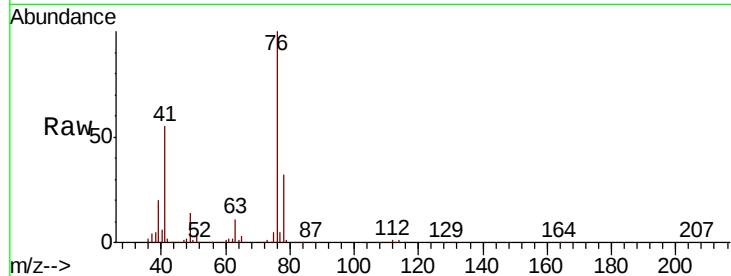
78 32.4 25.7 38.5

Manual Integrations

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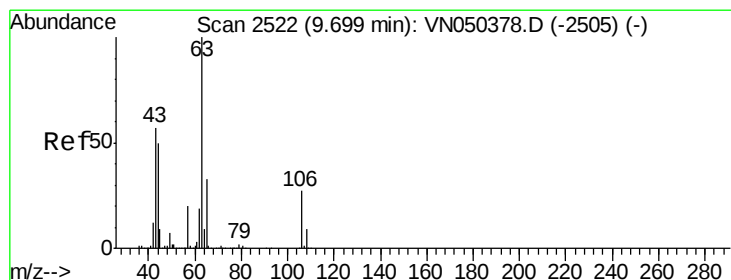
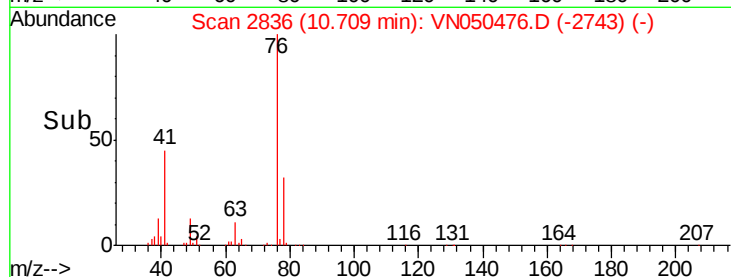
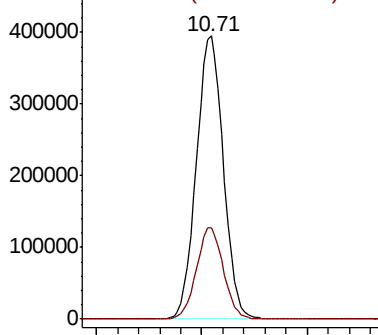
MMDadoda

8/10/2018 10:52:19 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 221.02 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. -0.00 min

Lab File: VN050476.D

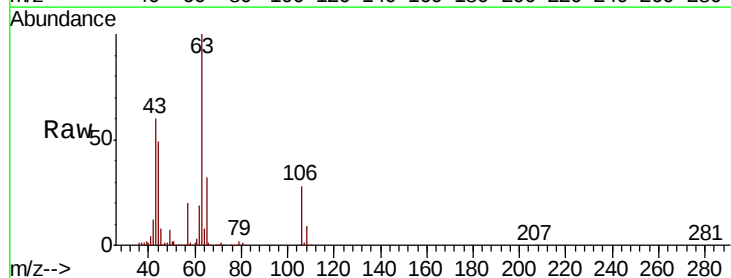
Acq: 9 Aug 2018 11:07

Tgt Ion: 63 Resp: 1279088

Ion Ratio Lower Upper

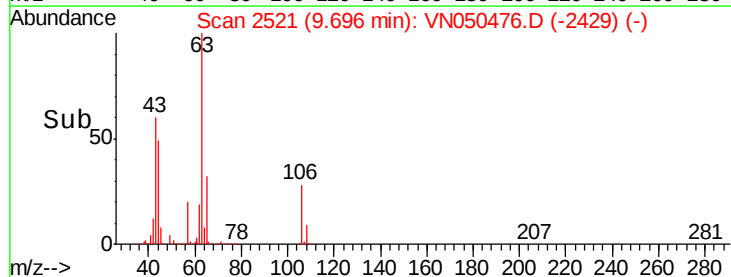
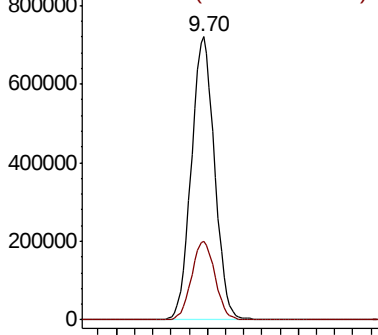
63 100

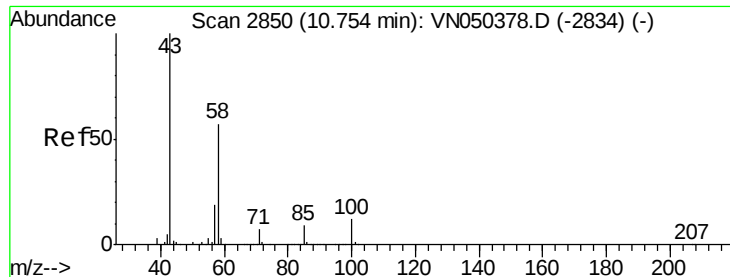
106 28.1 21.7 32.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





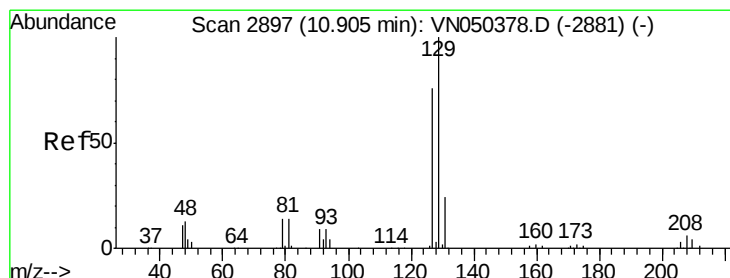
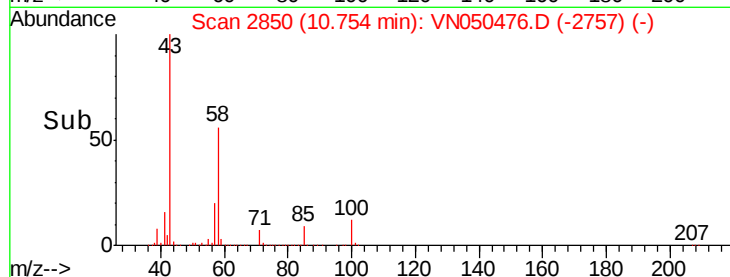
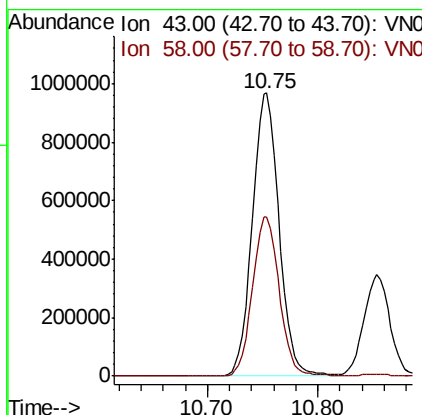
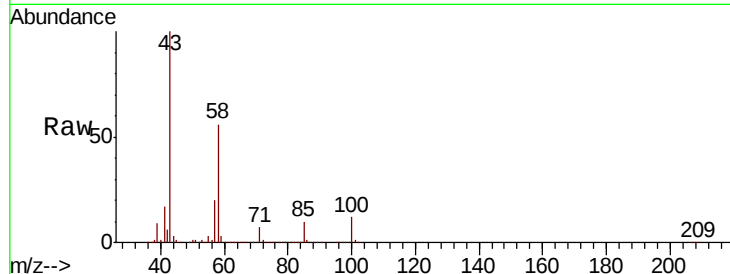
#59
2-Hexanone
Concen: 212.80 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 43 Resp: 1624559
Ion Ratio Lower Upper
43 100
58 56.5 27.6 82.7

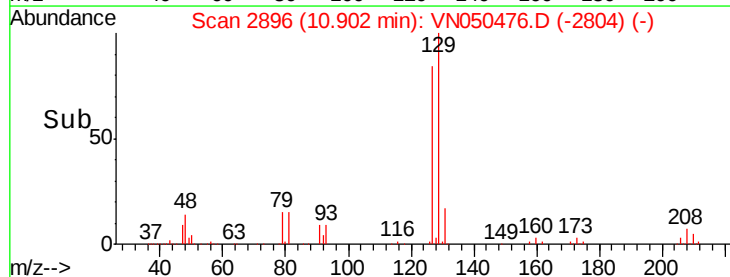
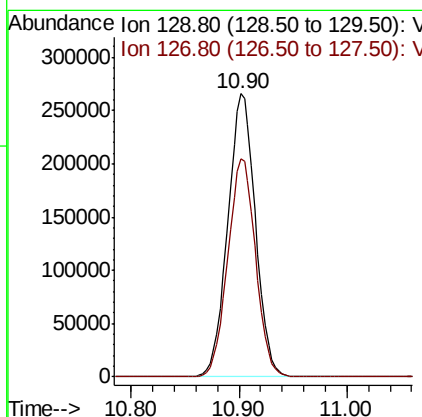
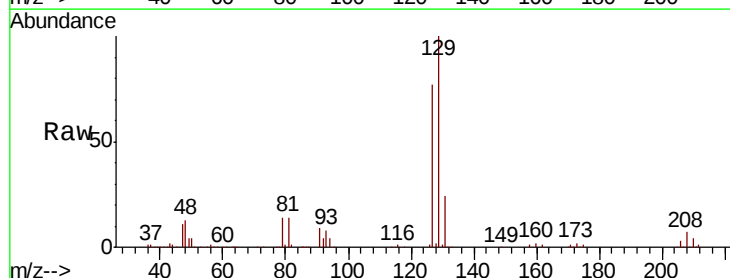
Manual Integrations
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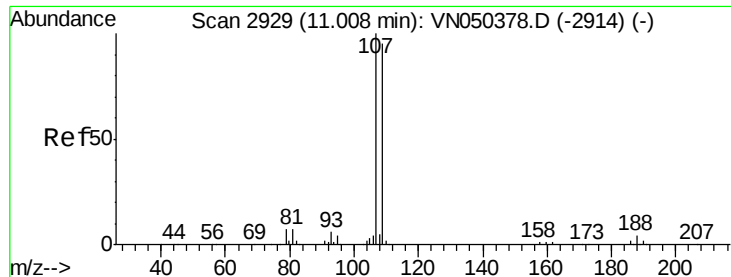
MMDadoda
8/10/2018 10:52:19 AM



#60
Dibromochloromethane
Concen: 48.81 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion: 129 Resp: 473661
Ion Ratio Lower Upper
129 100
127 77.7 38.0 113.9





#61

1,2-Dibromoethane

Concen: 48.21 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 418599

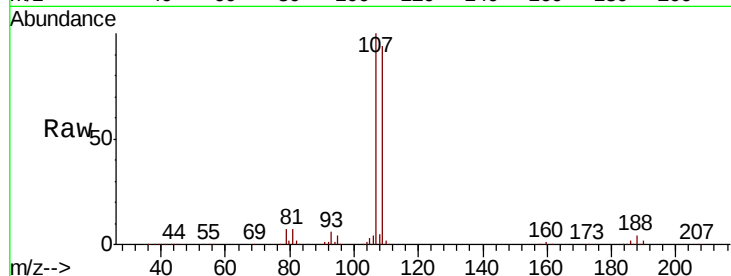
Ion Ratio Lower Upper

107 100

109 95.2 74.6 112.0

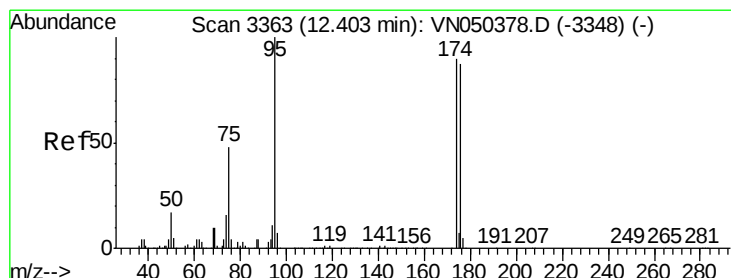
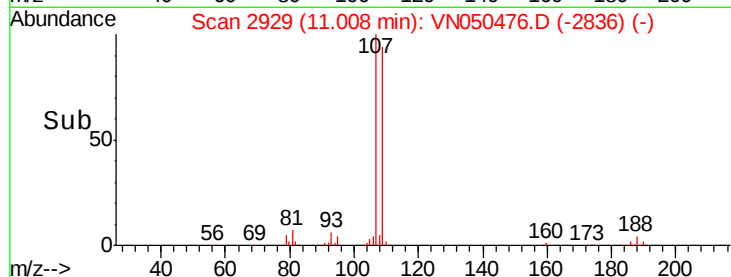
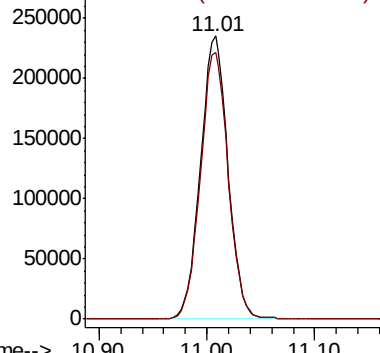
Manual Integrations
APPROVED

MMDadoda
8/10/2018 10:52:19 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 50.87 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

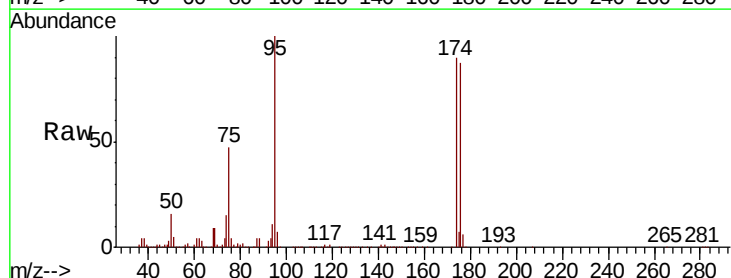
Tgt Ion: 95 Resp: 581615

Ion Ratio Lower Upper

95 100

174 90.8 0.0 178.2

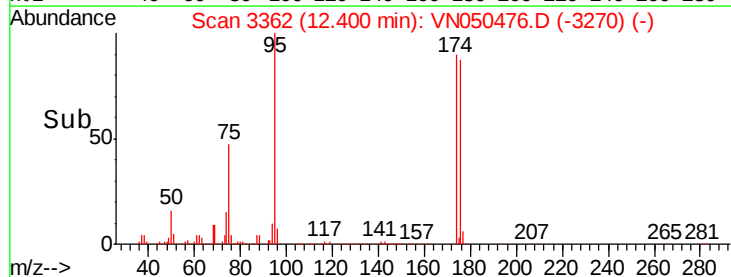
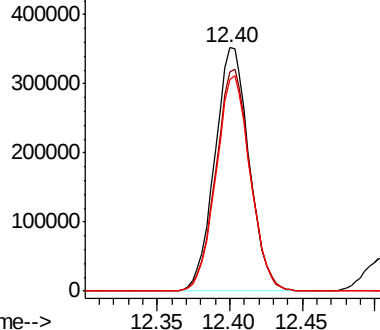
176 88.0 0.0 173.4

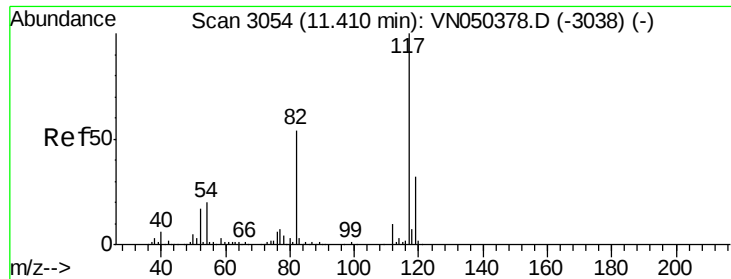


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





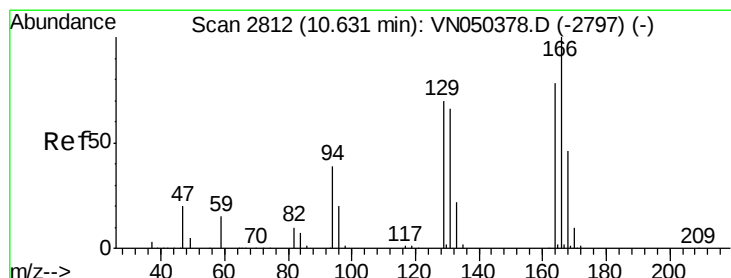
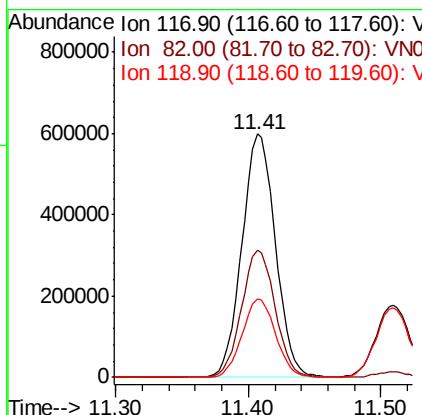
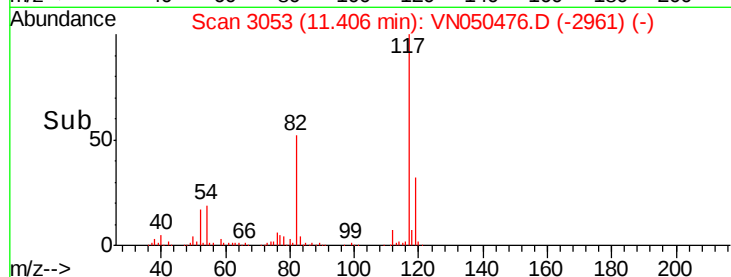
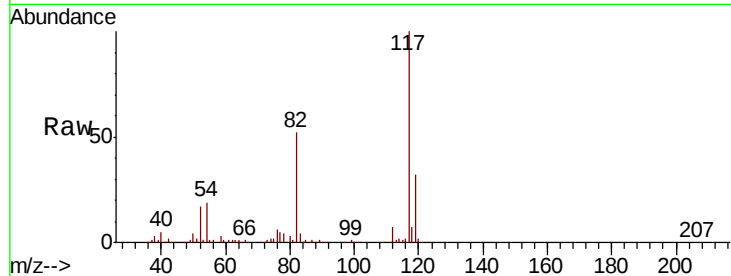
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1051243
Ion Ratio Lower Upper
117 100
82 52.4 43.7 65.5
119 32.1 26.1 39.1

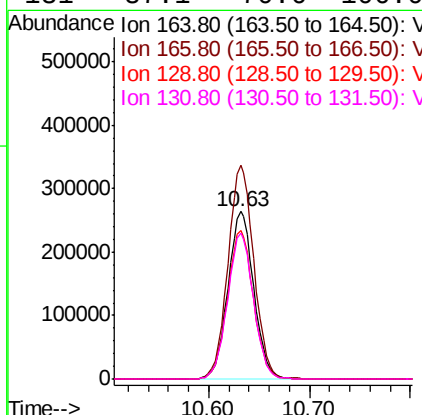
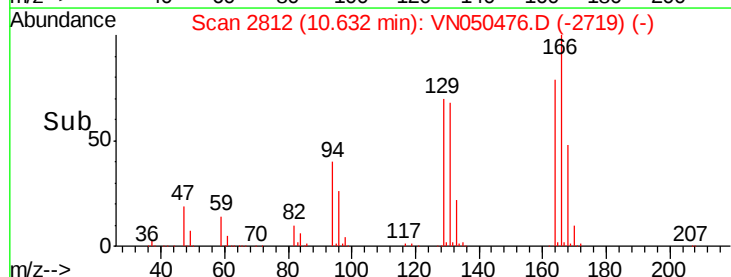
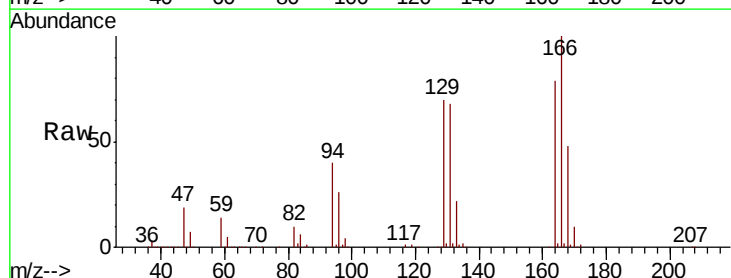
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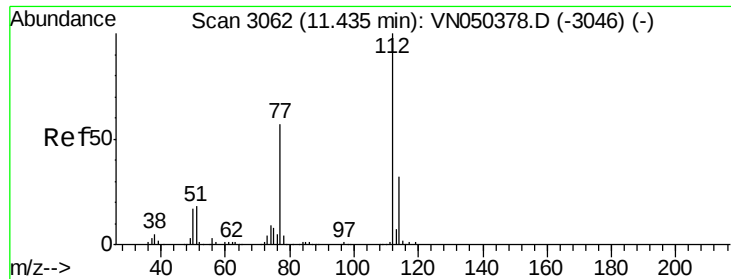
MMDadoda
8/10/2018 10:52:19 AM



#64
Tetrachloroethene
Concen: 47.96 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion:164 Resp: 471091
Ion Ratio Lower Upper
164 100
166 127.4 102.1 153.1
129 88.8 73.2 109.8
131 87.1 70.6 106.0





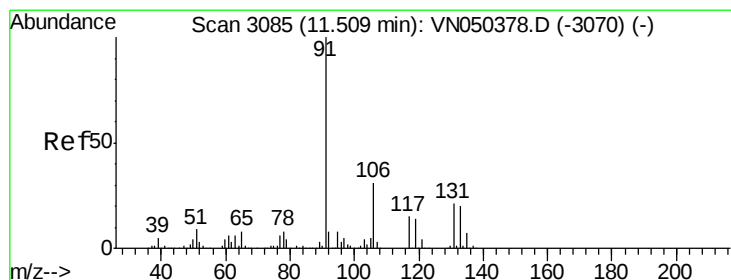
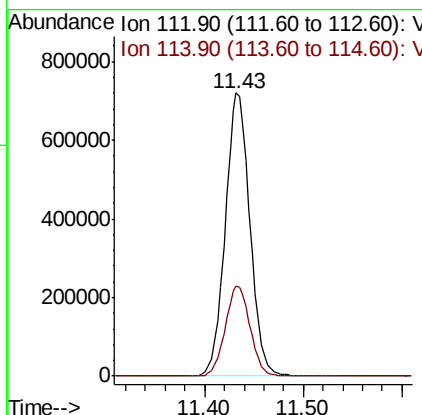
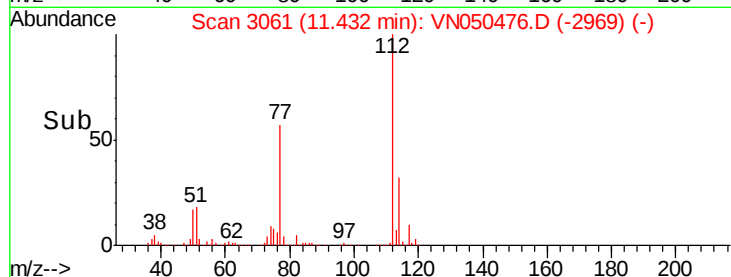
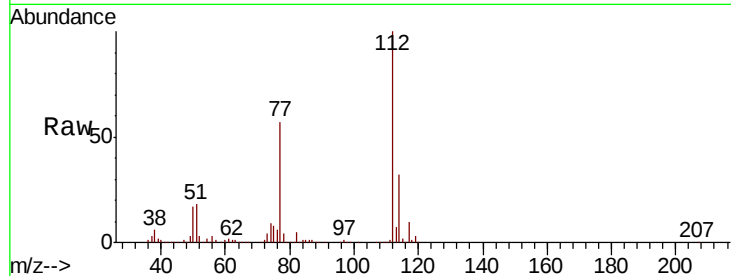
#65
Chlorobenzene
Concen: 47.63 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1255333
Ion Ratio Lower Upper
112 100
114 31.8 25.6 38.4

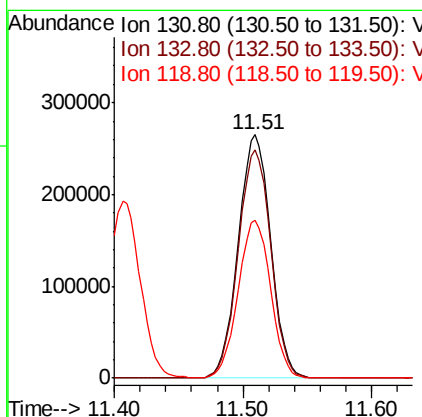
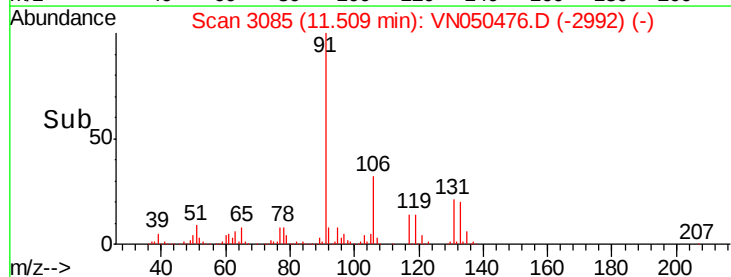
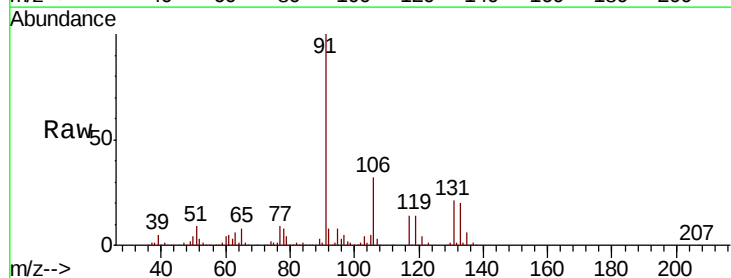
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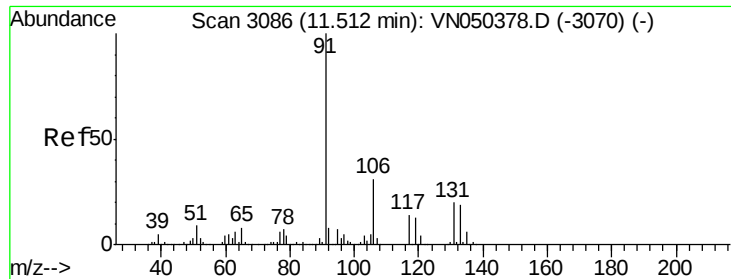
MMDadoda
8/10/2018 10:52:19 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 48.25 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion:131 Resp: 462778
Ion Ratio Lower Upper
131 100
133 94.5 47.3 141.9
119 65.1 32.9 98.7





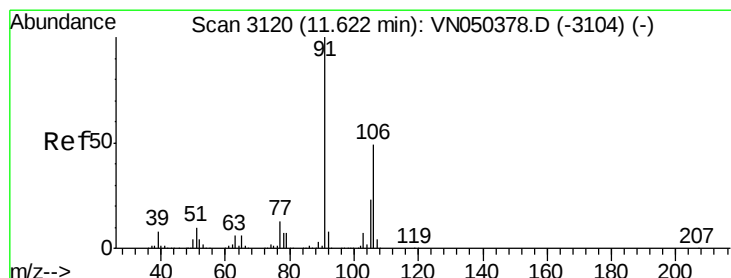
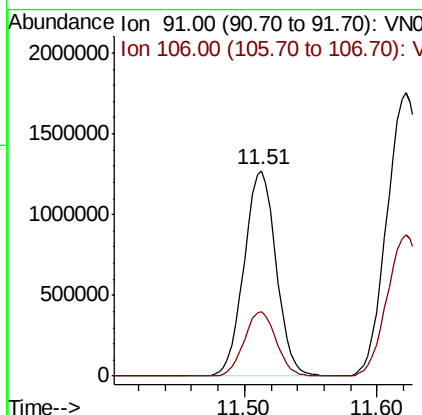
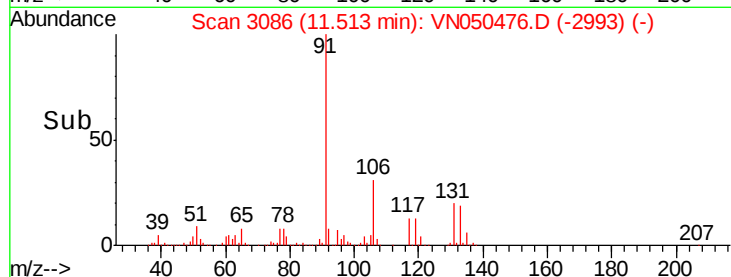
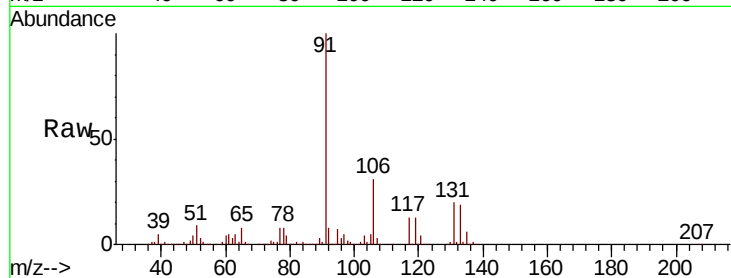
#67
Ethyl Benzene
Concen: 50.11 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 91 Resp: 2134908
Ion Ratio Lower Upper
91 100
106 31.3 25.0 37.4

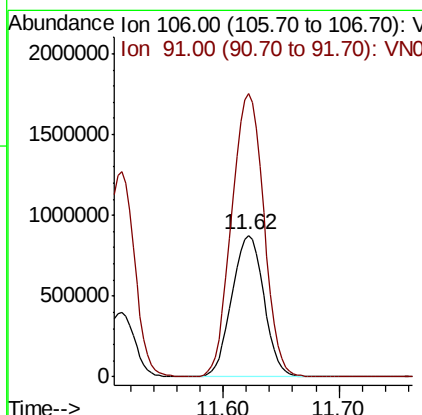
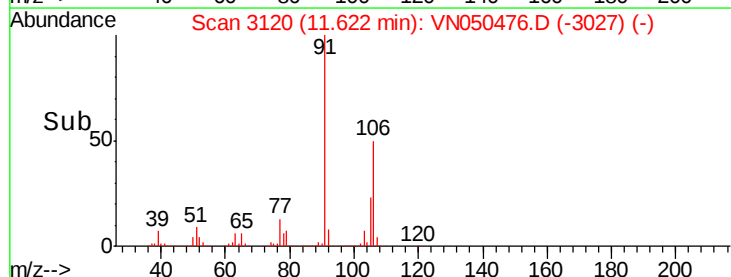
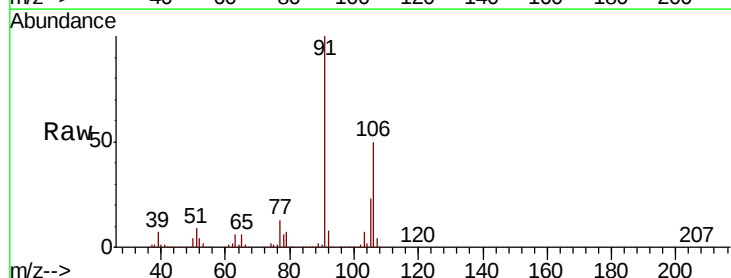
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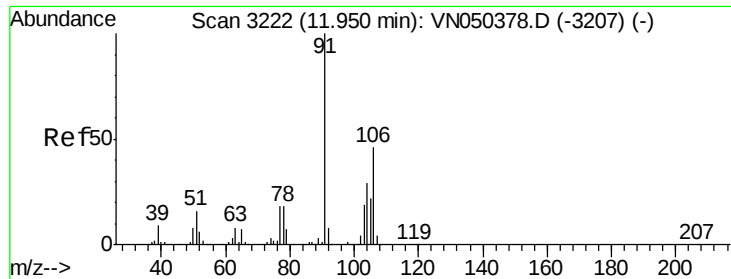
MMDadoda
8/10/2018 10:52:19 AM



#68
m/p-Xylenes
Concen: 103.12 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion: 106 Resp: 1672486
Ion Ratio Lower Upper
106 100
91 201.4 162.2 243.2





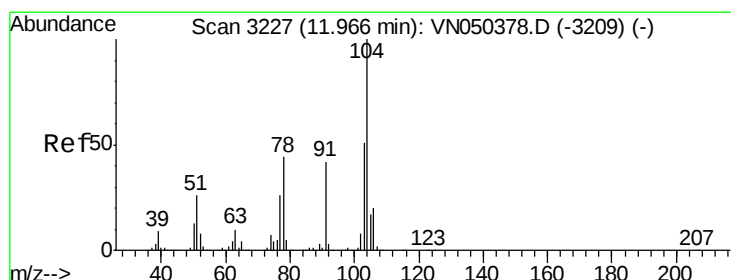
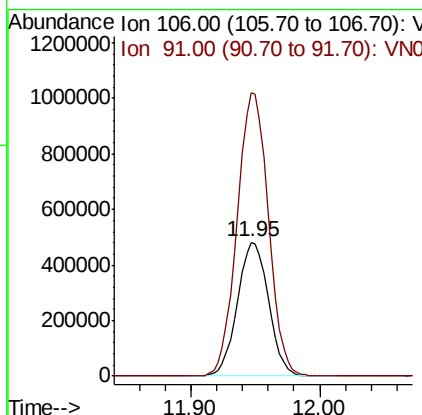
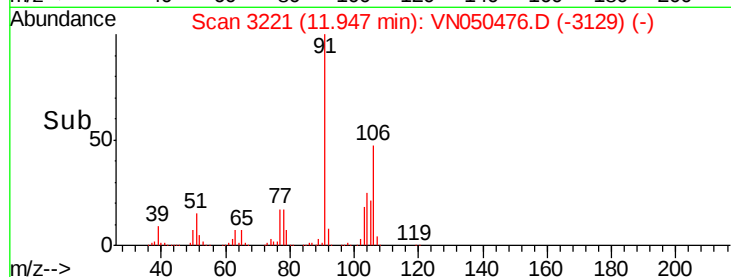
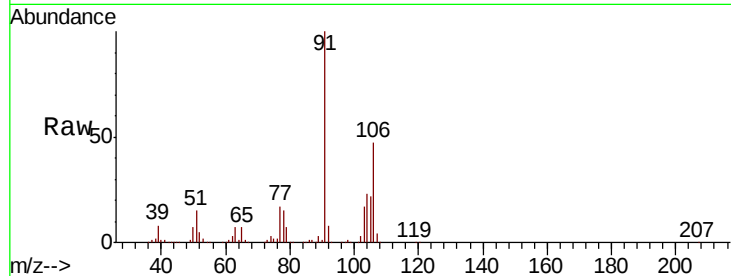
#69
o-Xylene
Concen: 51.83 ug/l
RT: 11.95 min Scan# 3221
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	212.5	107.7	323.1	

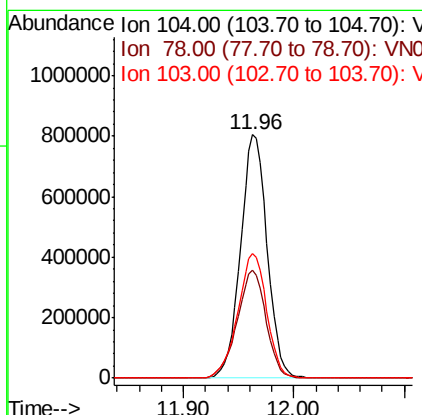
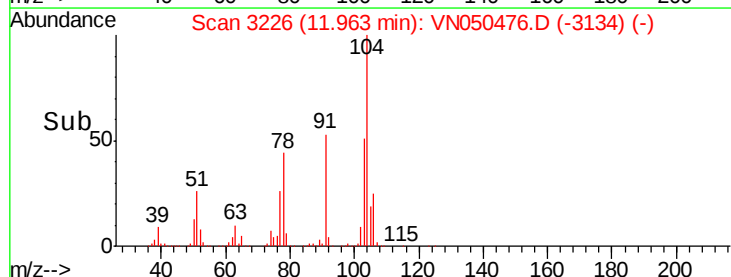
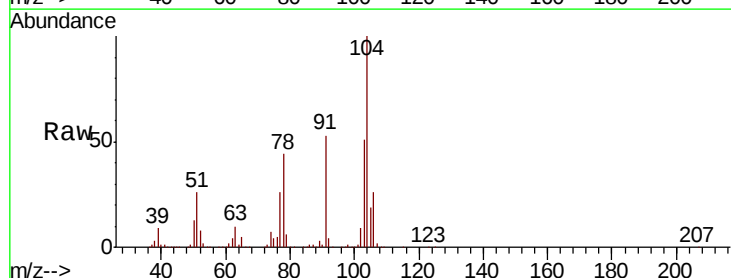
Manual Integrations
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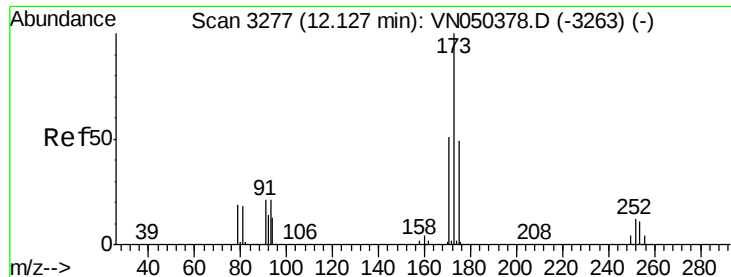
MMDadoda
8/10/2018 10:52:19 AM



#70
Styrene
Concen: 52.67 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	48.2	39.3	58.9	
103	55.8	45.0	67.6	





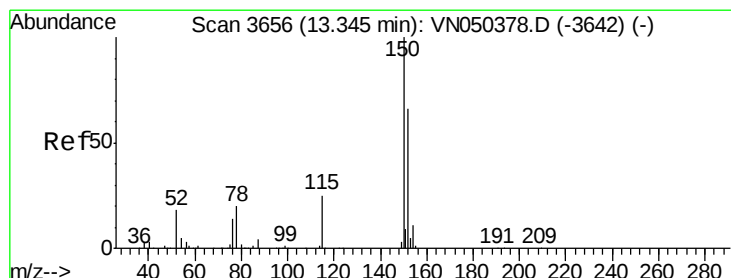
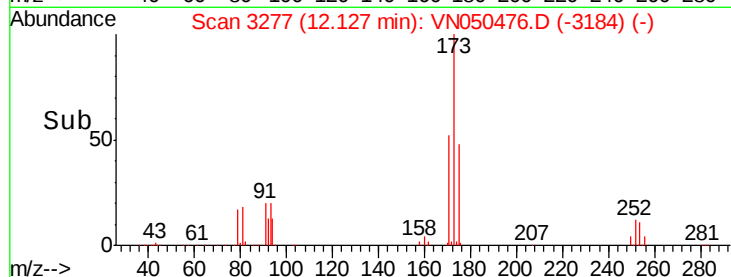
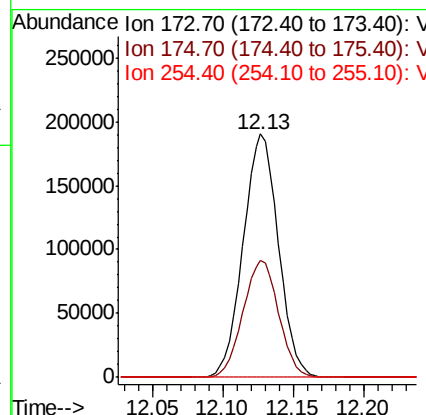
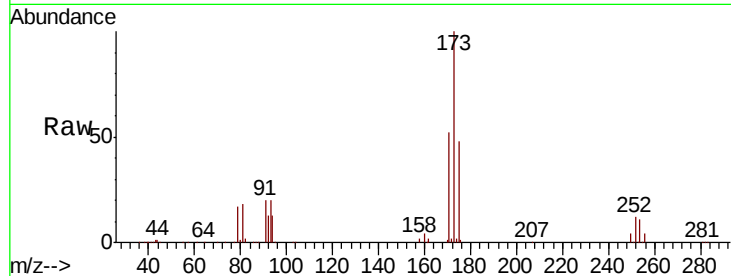
#71
Bromoform
Concen: 47.55 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.1	72.2
254	0.1	0.2	0.2#

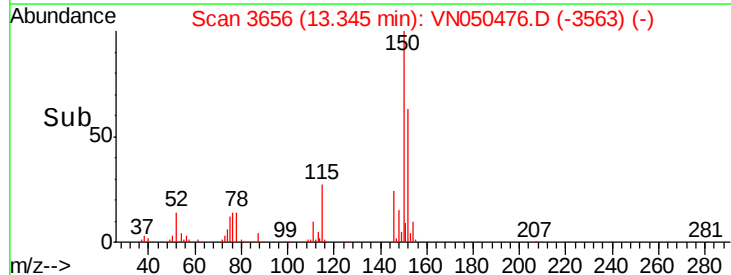
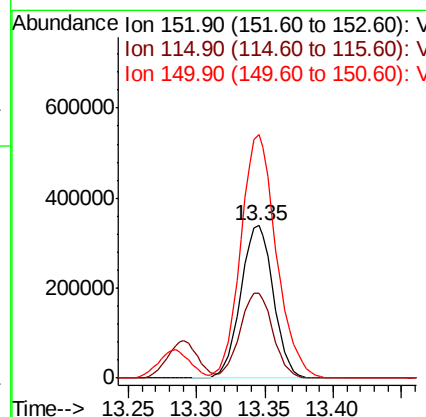
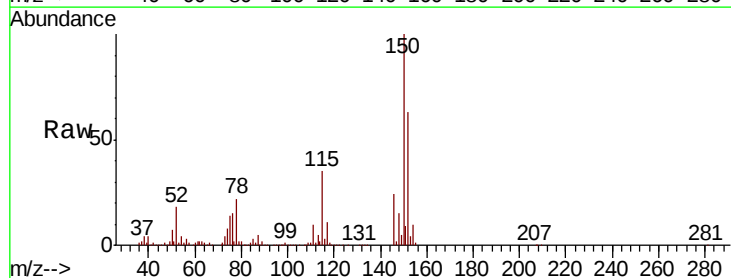
Manual Integrations
APPROVED

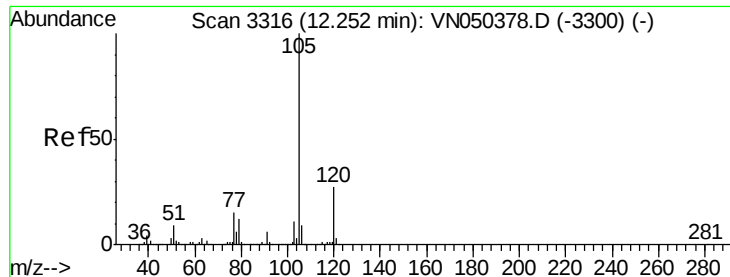
MMDadoda
8/10/2018 10:52:19 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	27.8	83.3
150	173.9	0.0	348.6





#73

Isopropylbenzene

Concen: 50.00 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:105 Resp: 2108497

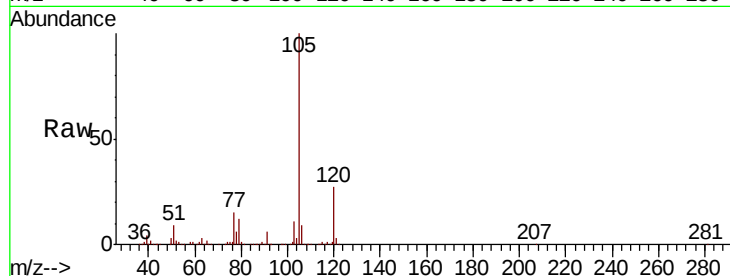
Ion Ratio Lower Upper

105 100

120 26.8 13.3 39.8

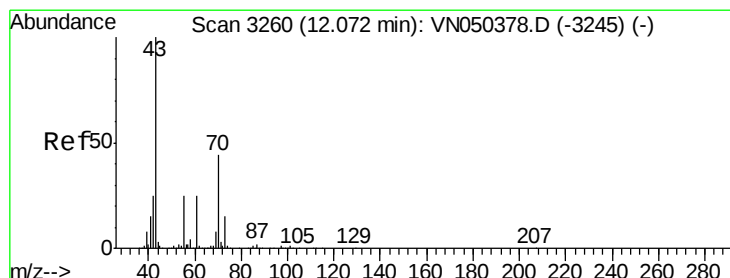
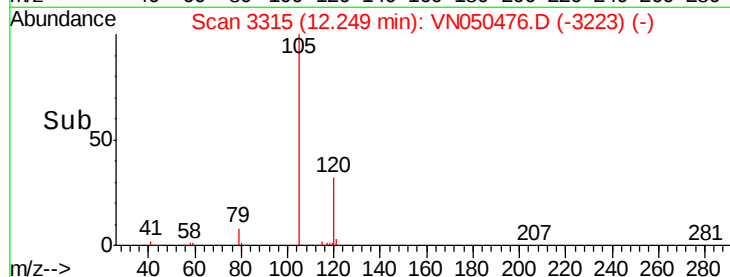
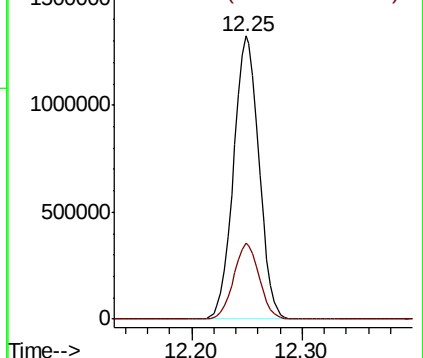
Manual Integrations
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MMDadoda
8/10/2018 10:52:19 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 43.08 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Tgt Ion: 43 Resp: 588861

Ion Ratio Lower Upper

43 100

70 44.6 34.4 51.6

55 26.3 20.8 31.2

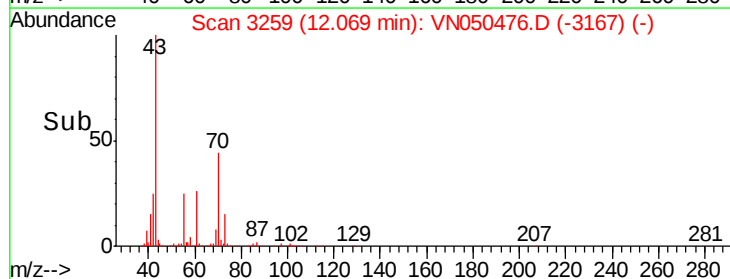
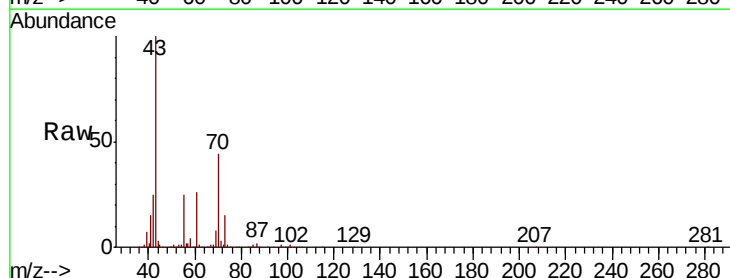
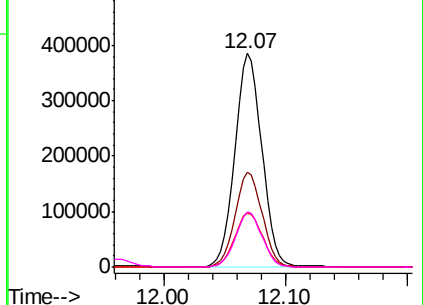
61 25.4 19.7 29.5

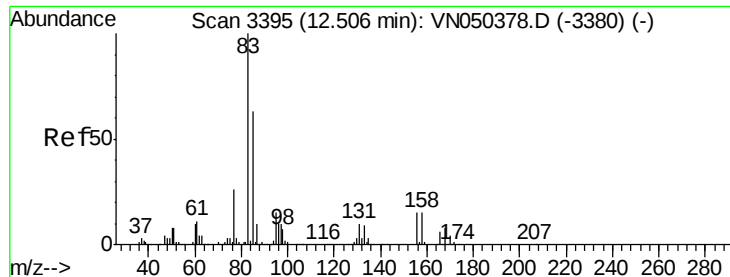
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 43.90 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

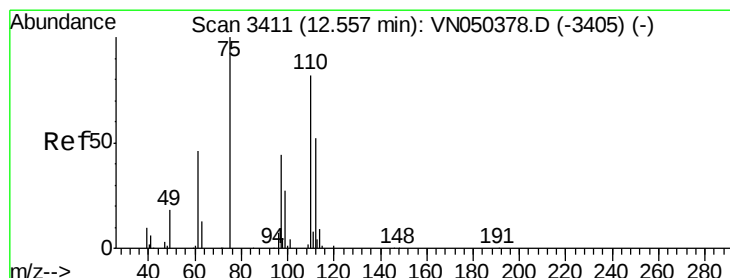
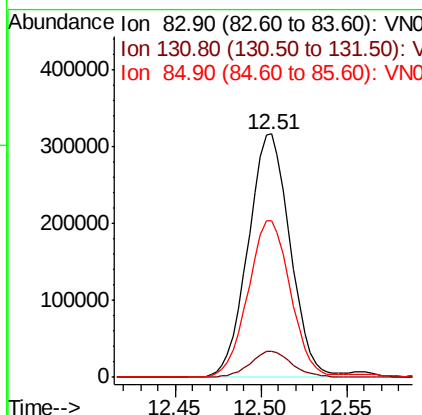
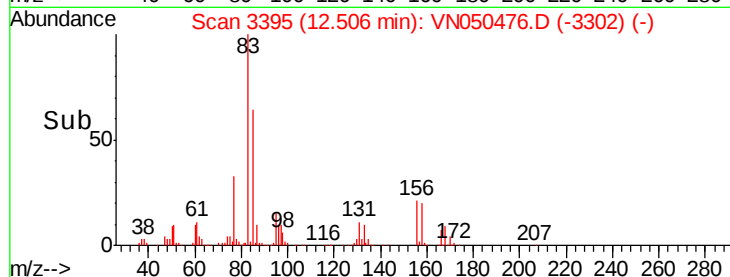
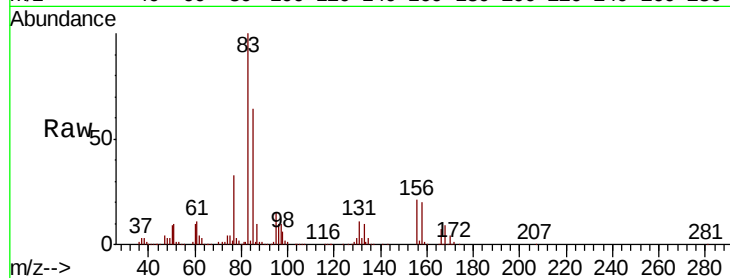
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	534104
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.1	15.3
85	64.9	32.3	96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 42.77 ug/l m

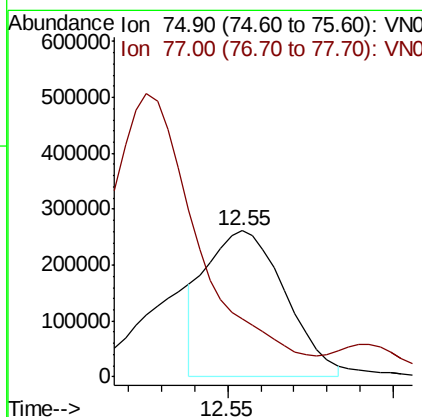
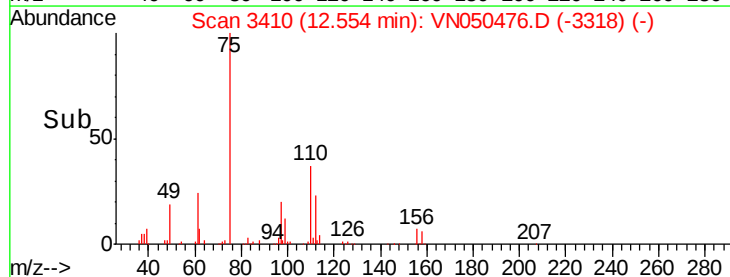
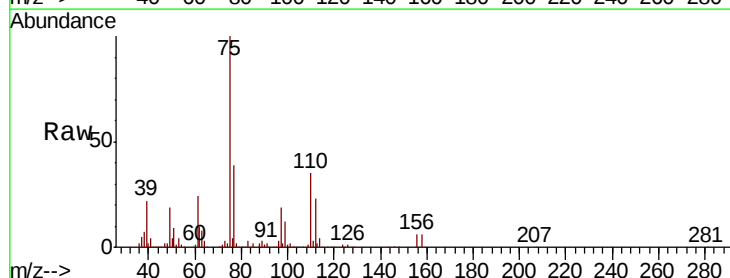
RT: 12.55 min Scan# 3410

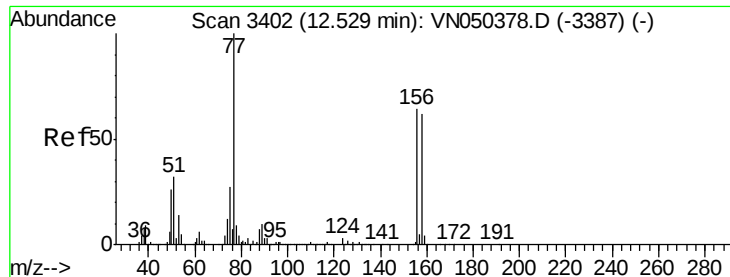
Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Tgt Ion:	75	Resp:	434904
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 49.78 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 562389

Ion Ratio Lower Upper

156 100

77 176.9 91.7 275.1

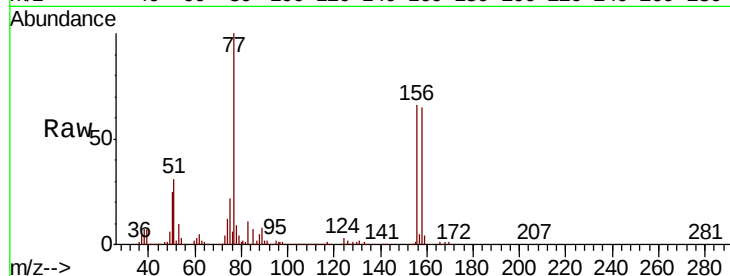
158 97.2 48.9 146.6

Manual Integrations

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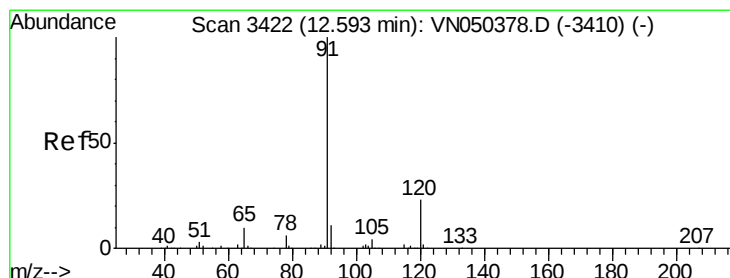
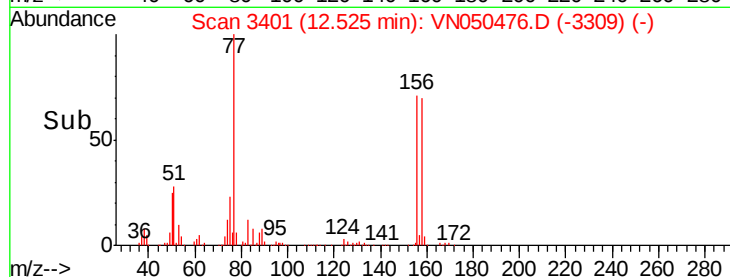
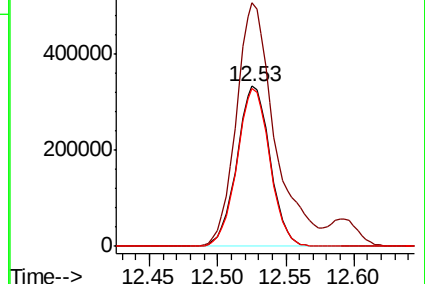
8/10/2018 10:52:19 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 50.63 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050476.D

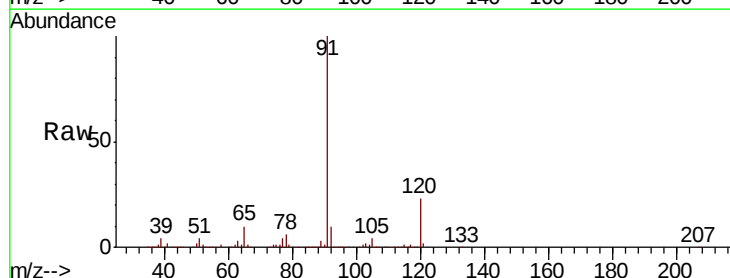
Acq: 9 Aug 2018 11:07

Tgt Ion: 91 Resp: 2416629

Ion Ratio Lower Upper

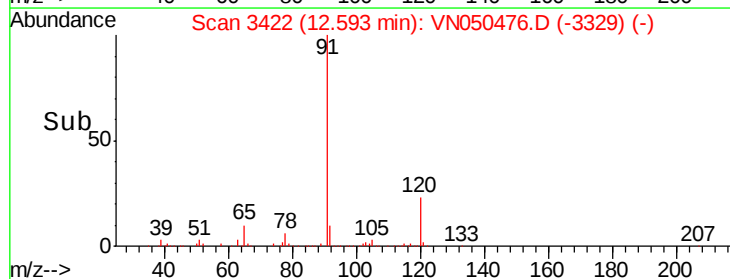
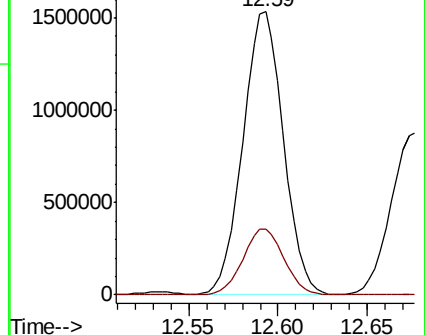
91 100

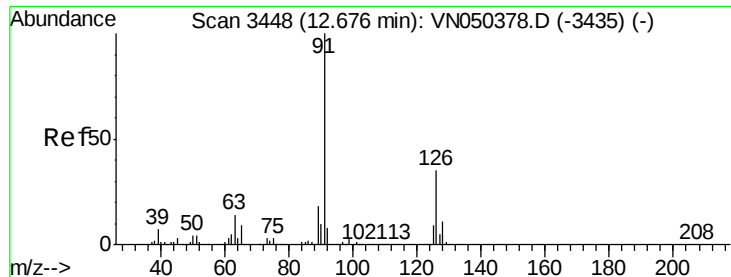
120 23.5 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 49.37 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 1455406

Ion Ratio Lower Upper

91 100

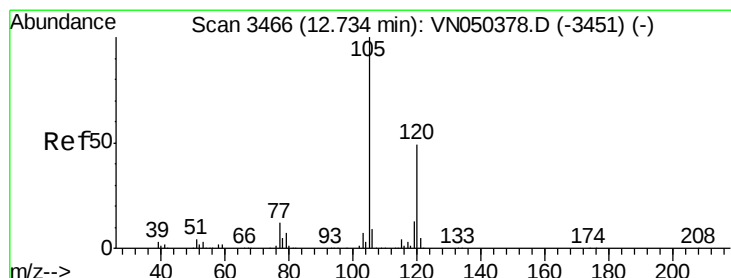
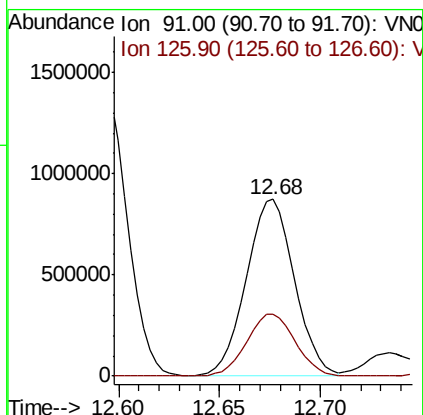
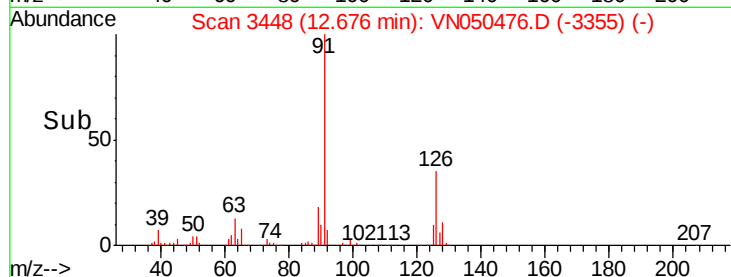
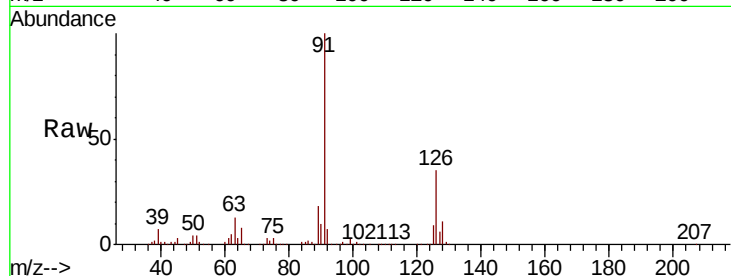
126 35.5 17.6 52.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 51.26 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050476.D

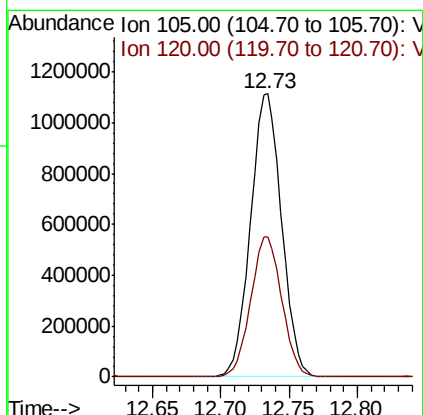
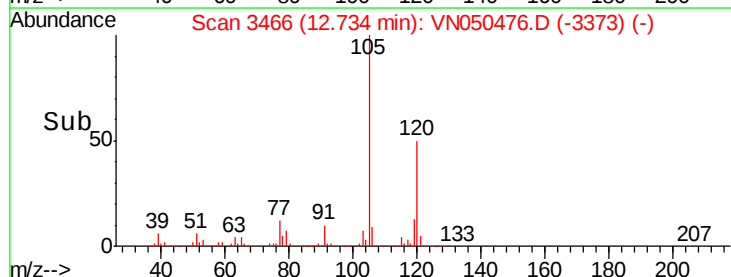
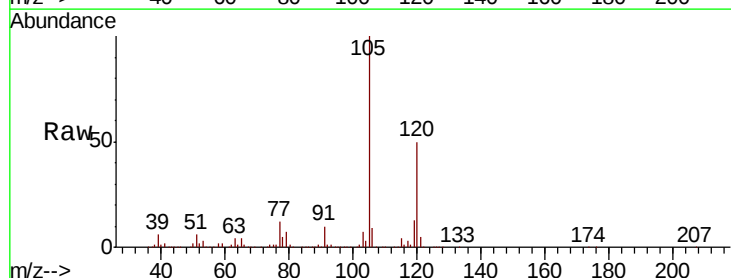
Acq: 9 Aug 2018 11:07

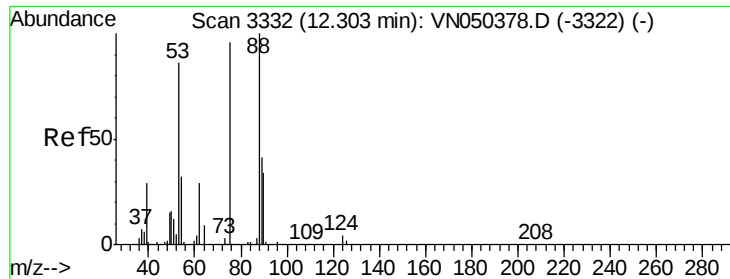
Tgt Ion: 105 Resp: 1754569

Ion Ratio Lower Upper

105 100

120 49.6 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 44.79 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

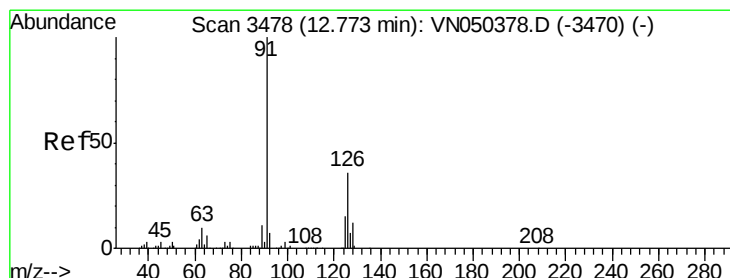
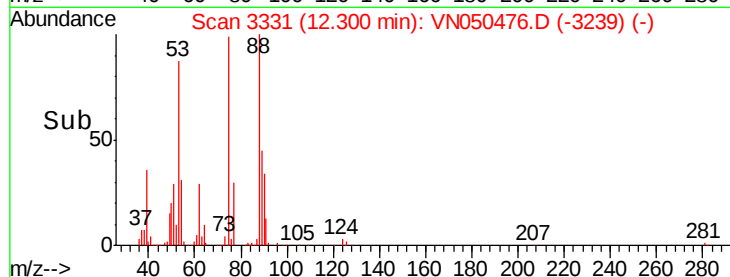
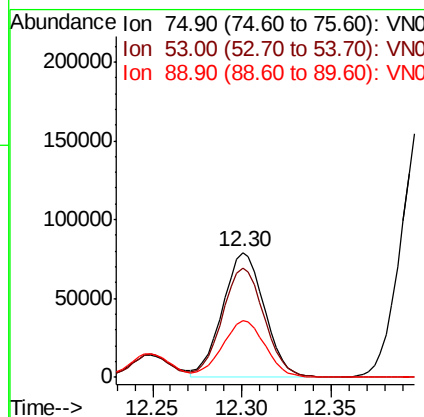
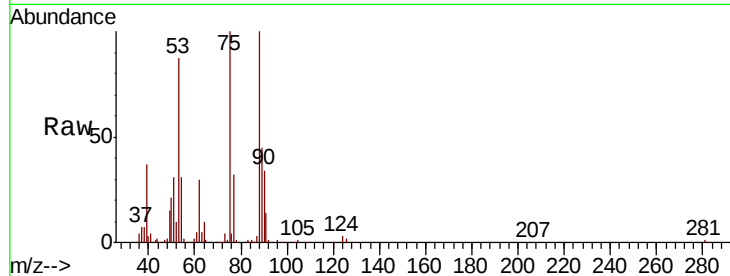
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	129624
Ion	Ratio	Lower	Upper
75	100		
53	88.5	73.5	110.3
89	46.2	36.0	54.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 50.48 ug/l

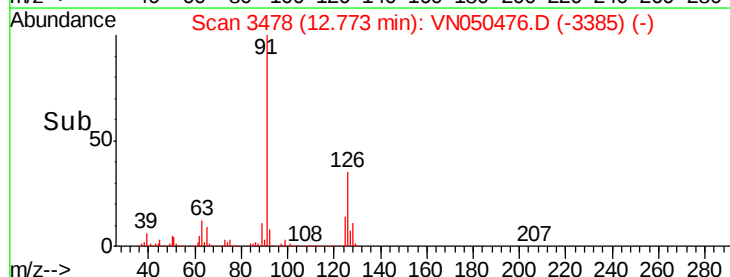
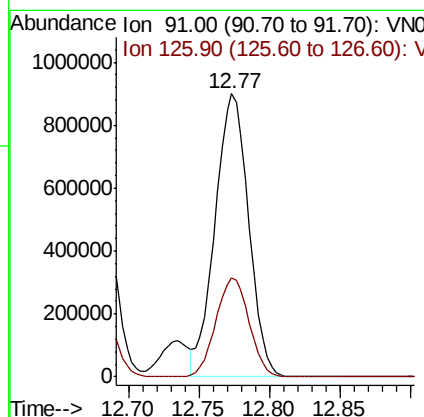
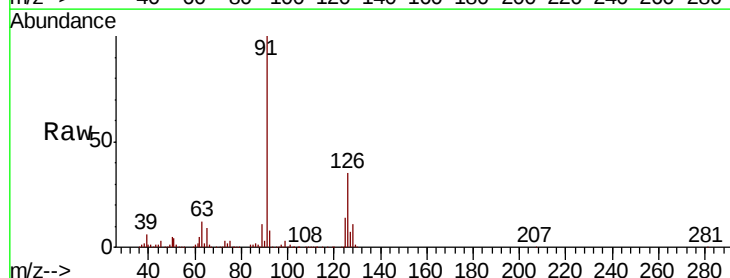
RT: 12.77 min Scan# 3478

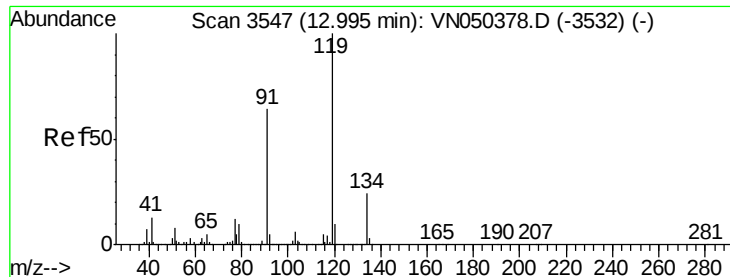
Delta R.T. 0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Tgt Ion:	91	Resp:	1484066
Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.0	51.0





#83

tert-Butylbenzene

Concen: 50.93 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 1520904

Ion Ratio Lower Upper

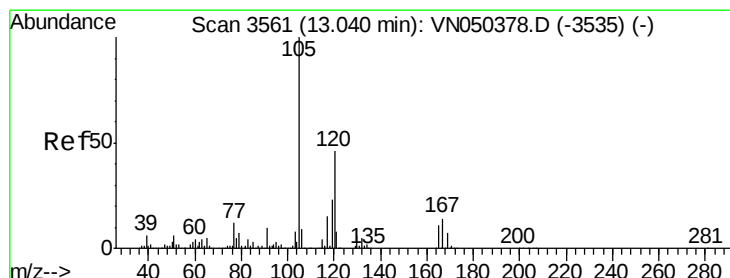
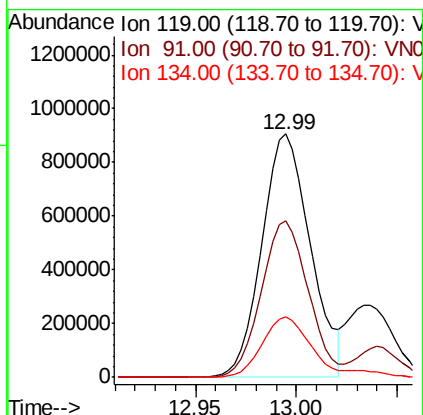
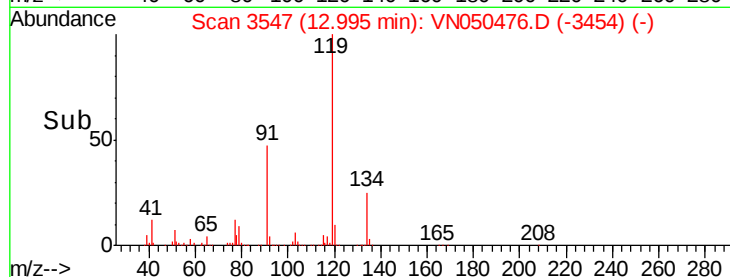
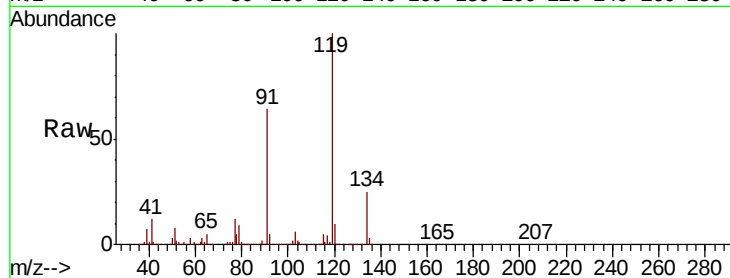
119 100

91 62.4 32.1 96.3

134 26.3 13.2 39.5

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#84

1,2,4-Trimethylbenzene

Concen: 51.84 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. 0.00 min

Lab File: VN050476.D

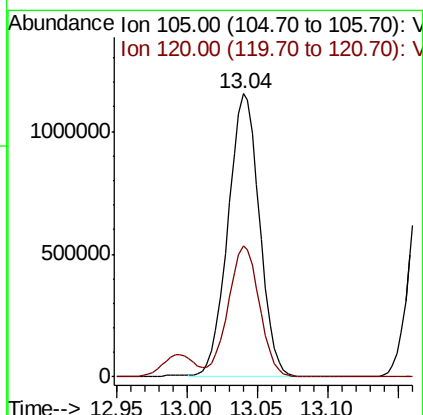
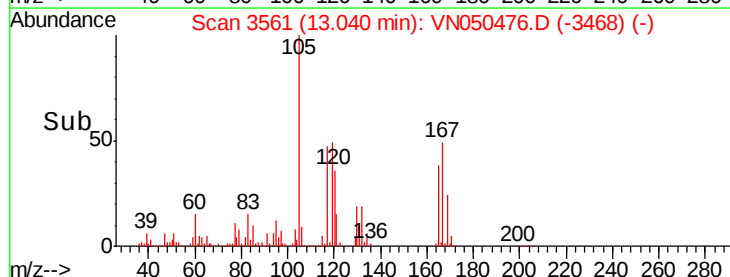
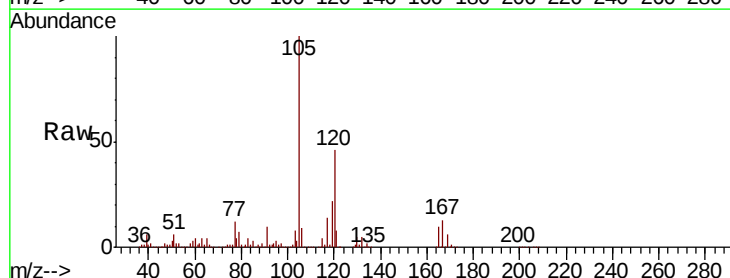
Acq: 9 Aug 2018 11:07

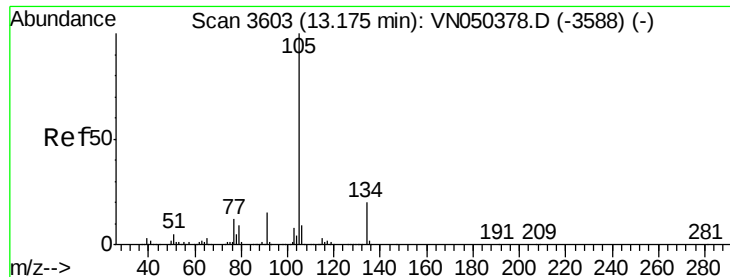
Tgt Ion:105 Resp: 1797702

Ion Ratio Lower Upper

105 100

120 46.3 22.9 68.7





#85

sec-Butylbenzene

Concen: 50.18 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:105 Resp: 1997336

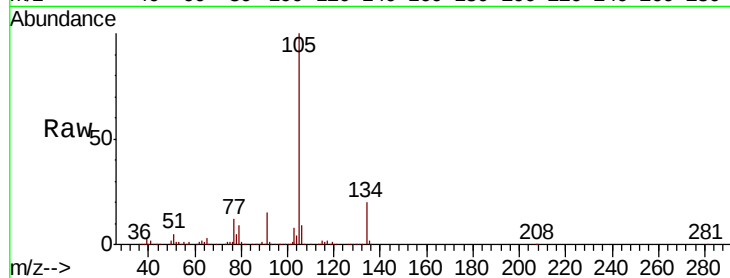
Ion Ratio Lower Upper

105 100

134 20.3 10.1 30.1

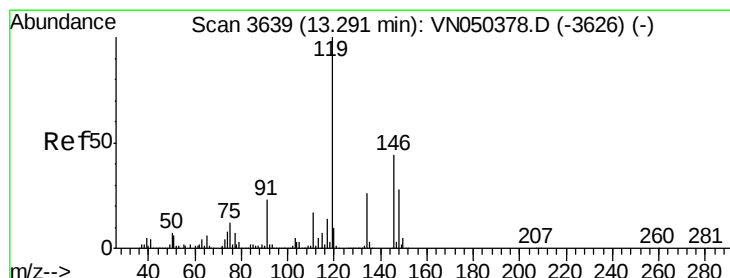
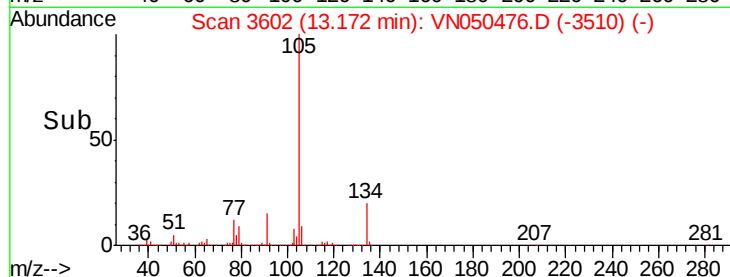
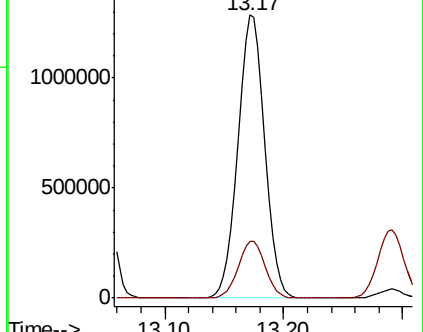
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 51.44 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

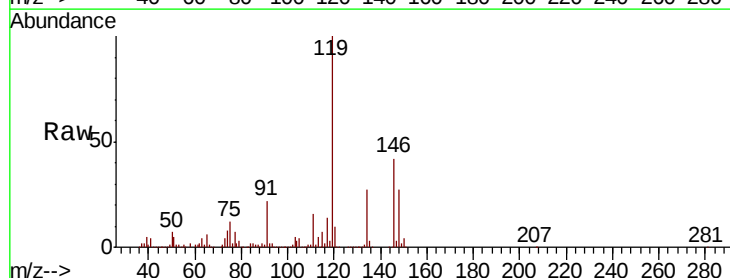
Tgt Ion:119 Resp: 1754720

Ion Ratio Lower Upper

119 100

134 26.9 13.3 39.8

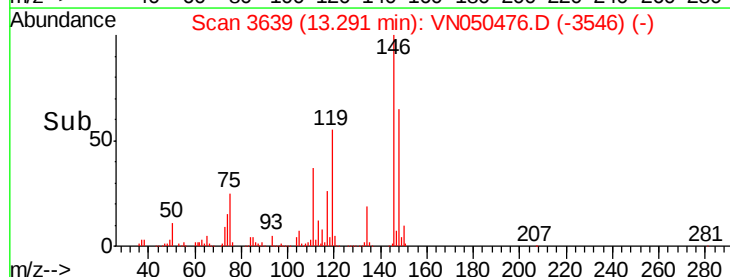
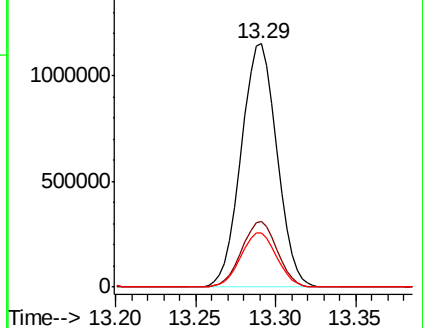
91 22.5 11.4 34.2

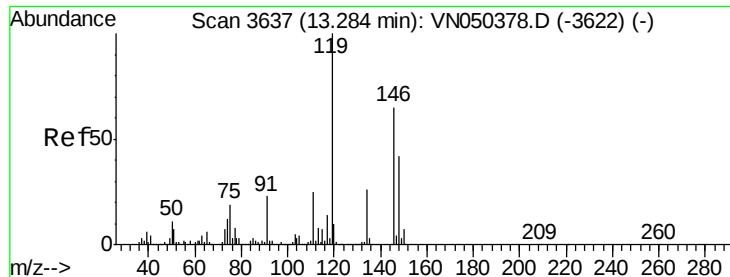


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





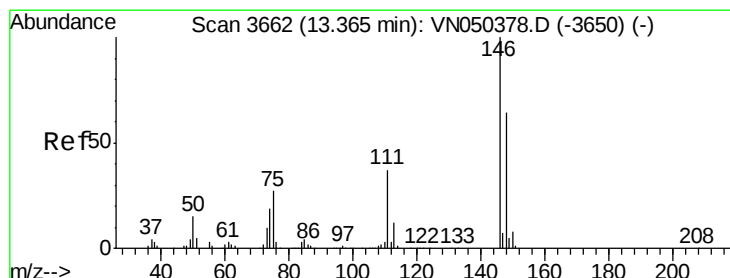
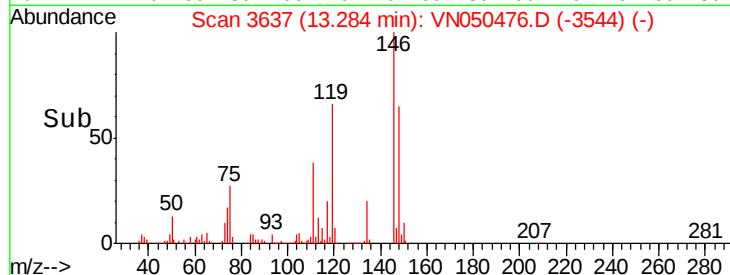
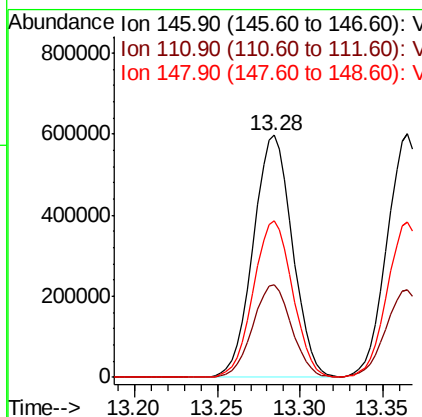
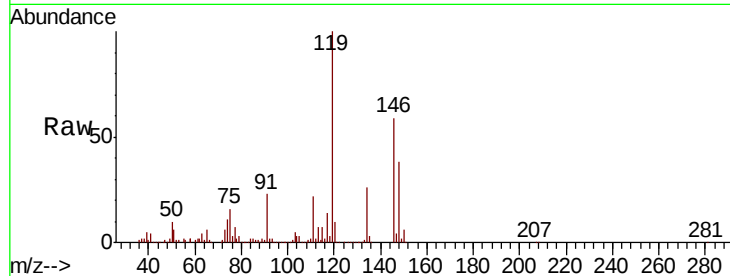
#87
 1,3-Dichlorobenzene
 Concen: 49.01 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	986273		
111	37.8	18.8	56.4	
148	64.7	31.9	95.9	

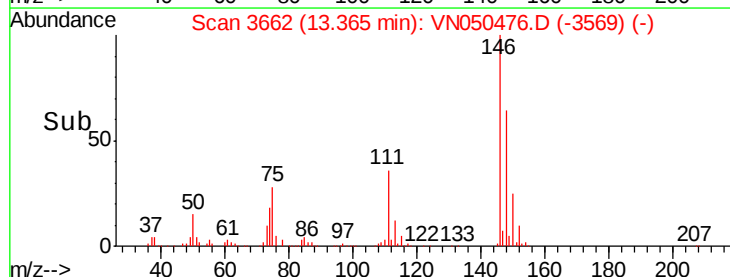
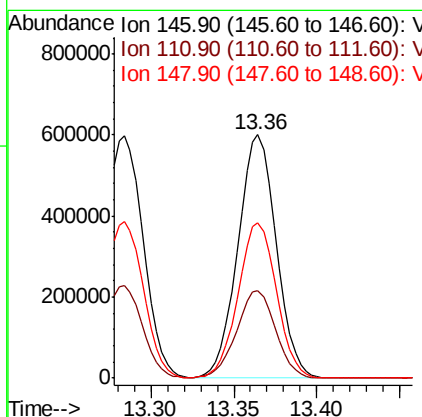
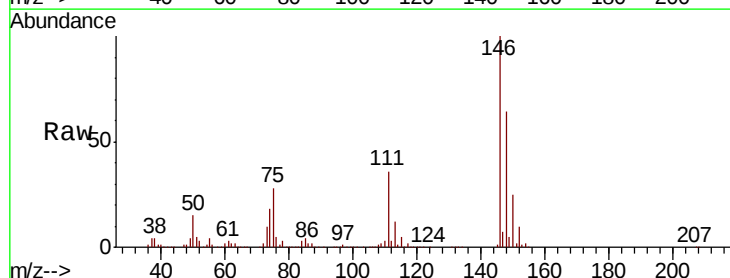
Manual Integrations
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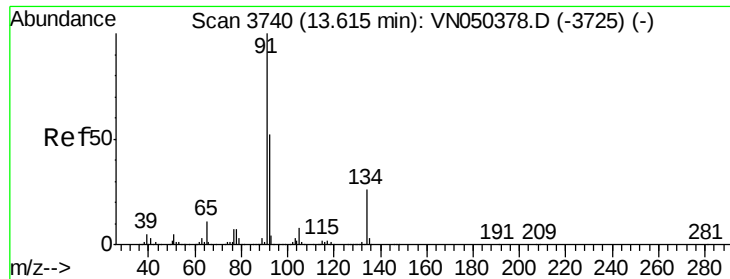
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#88
 1,4-Dichlorobenzene
 Concen: 48.02 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	964817		
111	36.7	18.3	54.9	
148	64.2	31.9	95.9	





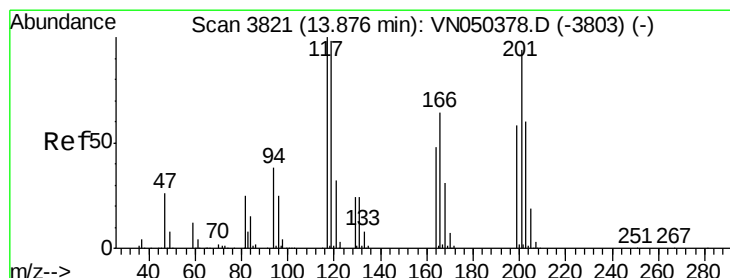
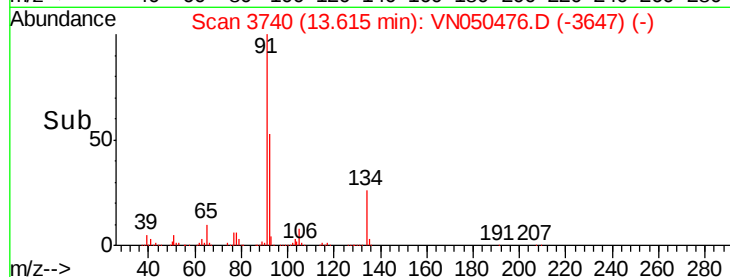
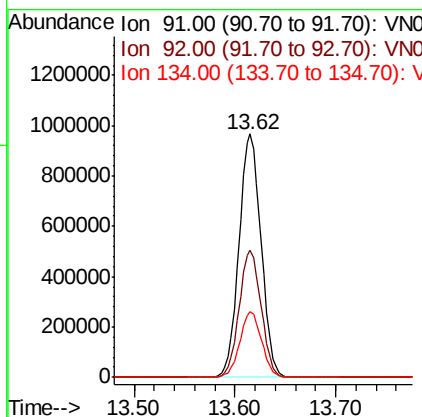
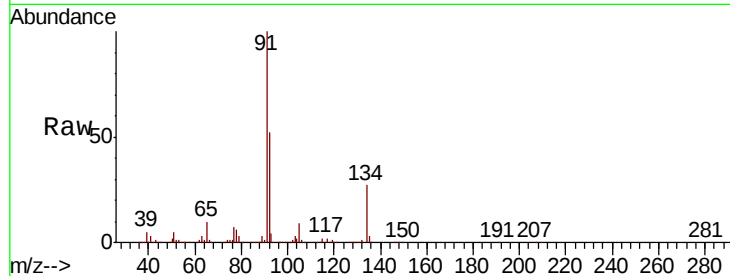
#89
n-Butylbenzene
Concen: 50.18 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.1	25.8	77.4
134	26.5	12.8	38.4

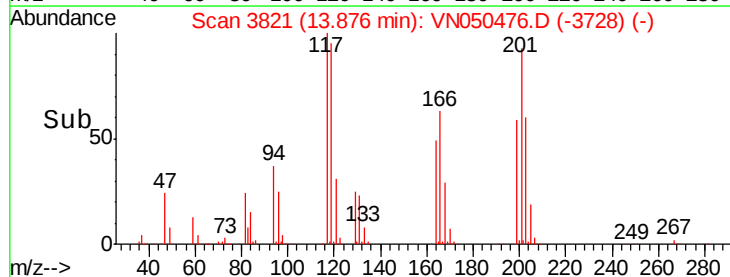
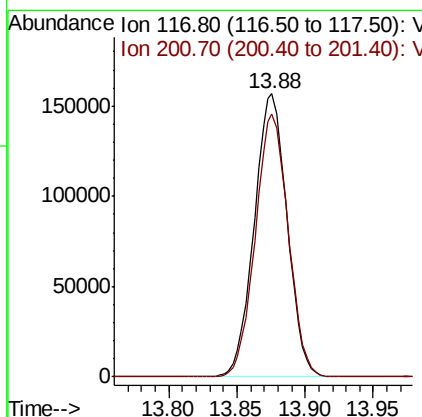
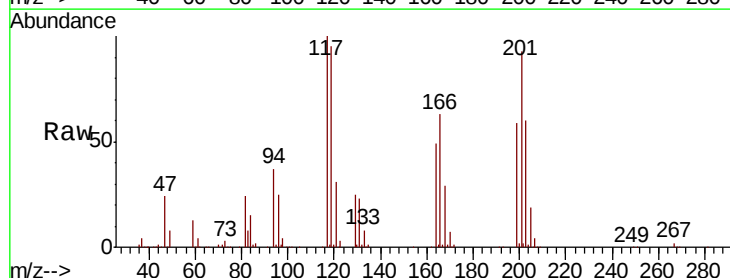
Manual Integrations
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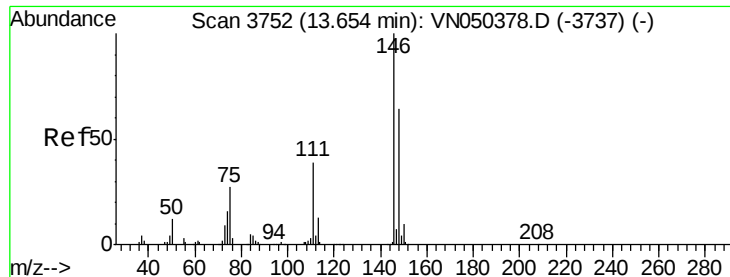
MMDadoda
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#90
Hexachloroethane
Concen: 43.27 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050476.D
Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.8	45.6	136.8





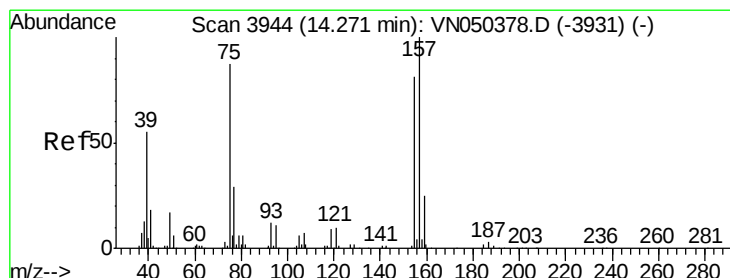
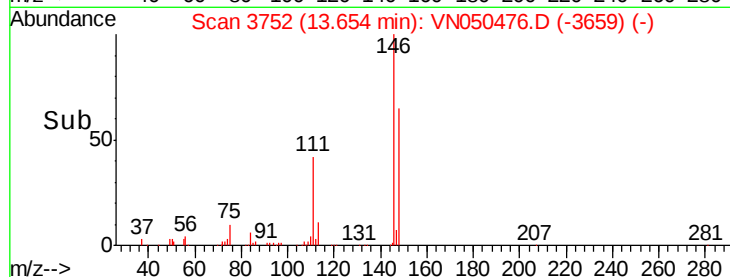
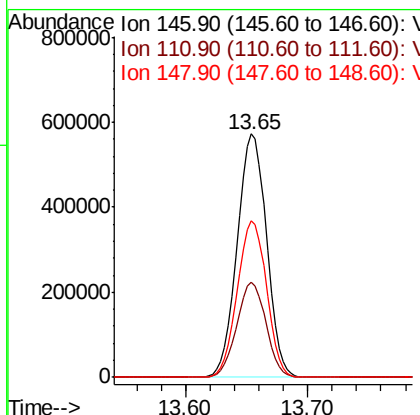
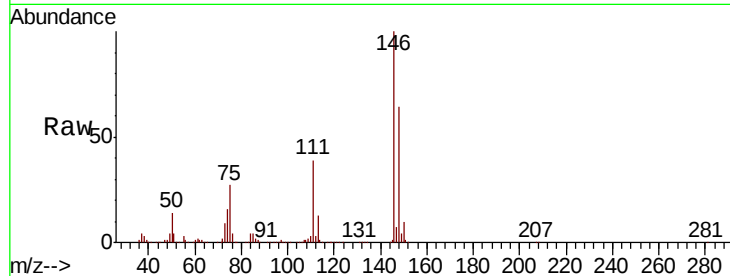
#91
 1,2-Dichlorobenzene
 Concen: 47.16 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.6	58.7
148	64.1	32.1	96.3

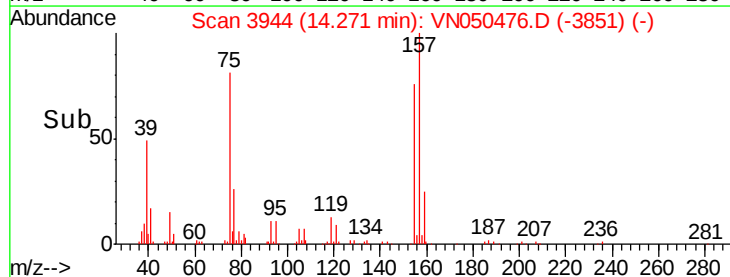
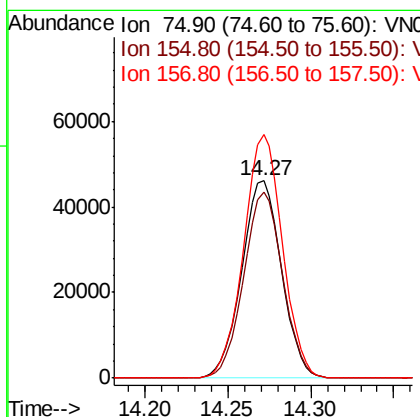
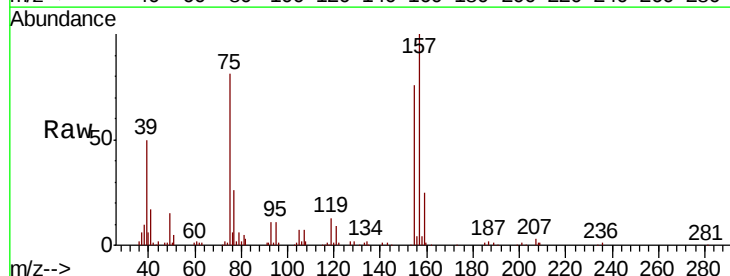
Manual Integrations
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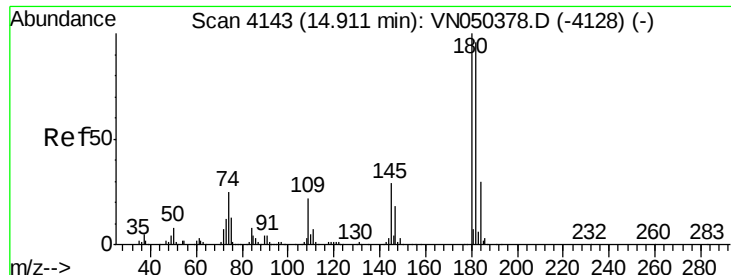
MMDadoda
 8/10/2018 10:52:19 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 37.22 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.5	44.8	134.4
157	120.3	57.2	171.6





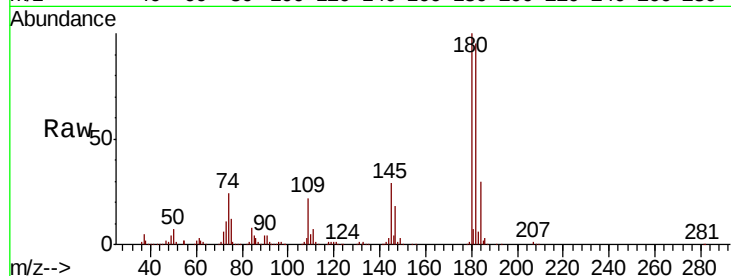
#93
 1,2,4-Trichlorobenzene
 Concen: 47.33 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	486280		
182	95.0	46.7	140.1	
145	28.2	13.8	41.4	

Manual Integrations
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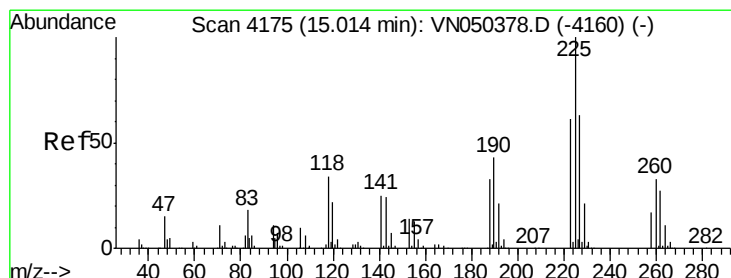
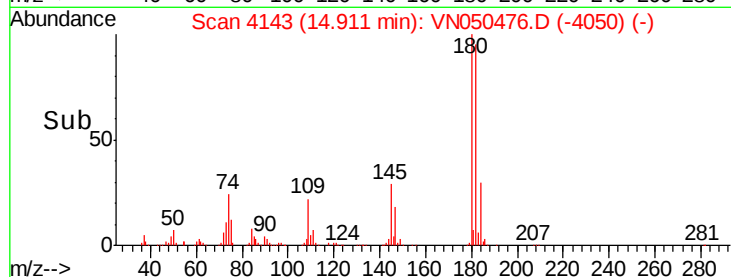
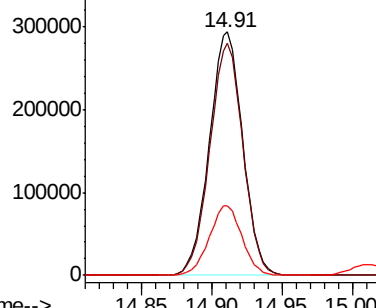


Abundance

Ion 179.80 (179.50 to 180.50): V

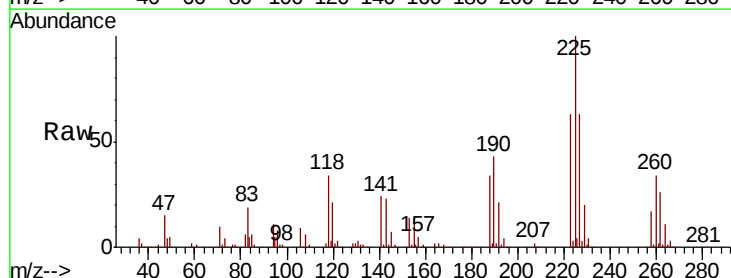
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 53.41 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN050476.D
 Acq: 9 Aug 2018 11:07

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	299122		
223	62.4	31.4	94.2	
227	63.2	32.1	96.5	

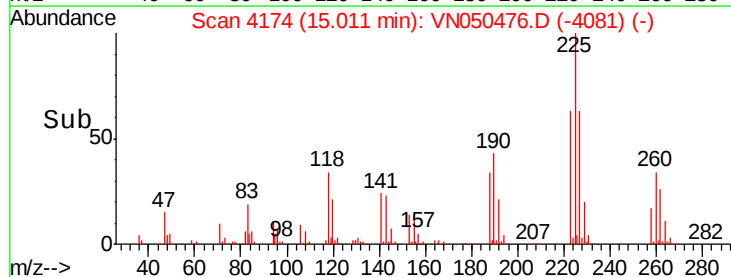
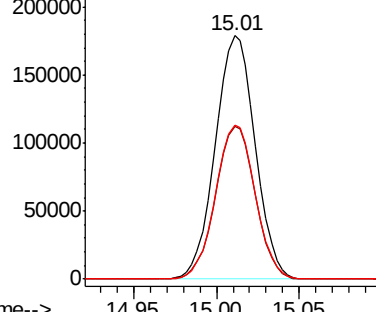


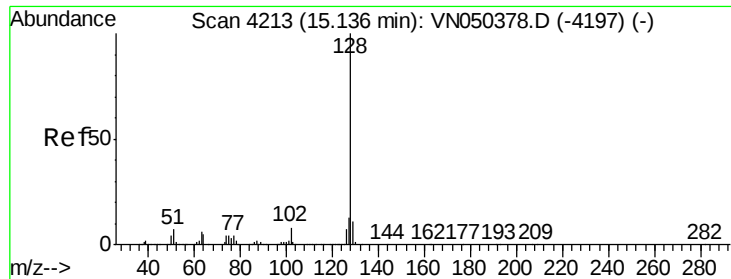
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 38.67 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Instrument :

MSVOA_N

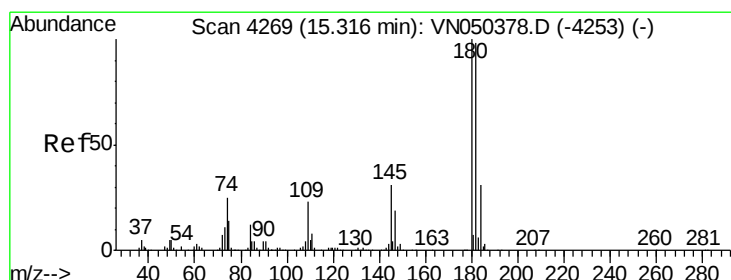
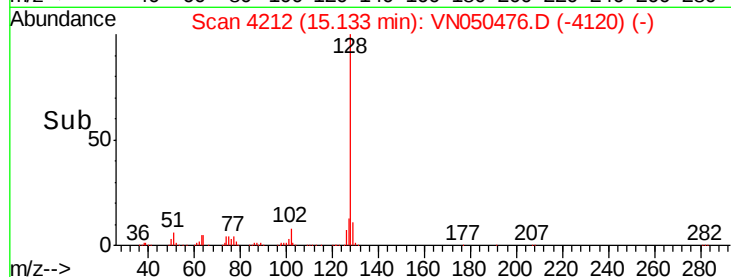
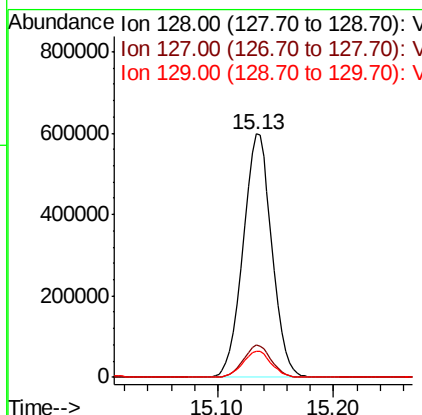
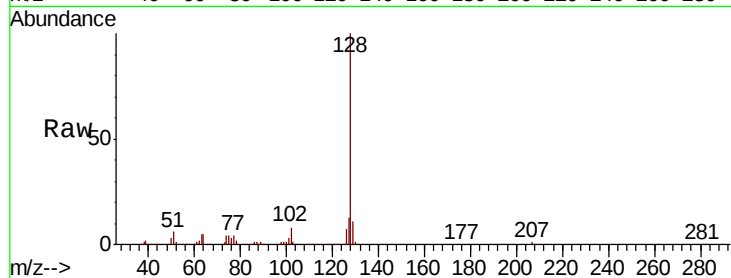
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	1027940
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.8	8.8	13.2

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#96

1,2,3-Trichlorobenzene

Concen: 43.23 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050476.D

Acq: 9 Aug 2018 11:07

Tgt Ion:	180	Resp:	449067
Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.1	144.4
145	30.2	15.3	45.9

