

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072418\
 Data File : VN050012.D
 Acq On : 23 Jul 2018 18:22
 Operator : MD\SY
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 1:50:47 PM

Quant Time: Jul 24 06:01:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 05:50:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	614431	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	917762	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	819871	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	421041	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	170240	20.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.32%	
35) Dibromofluoromethane	7.59	113	147312	19.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.24%	
50) Toluene-d8	10.09	98	535024	19.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.16%	
62) 4-Bromofluorobenzene	12.40	95	167789	17.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	34.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	200197	27.79	ug/l	99
3) Chloromethane	2.06	50	193816	22.31	ug/l	100
4) Vinyl Chloride	2.18	62	207962	22.58	ug/l	99
5) Bromomethane	2.56	94	119665	20.36	ug/l	96
6) Chloroethane	2.70	64	120121	20.30	ug/l	100
7) Trichlorofluoromethane	3.01	101	269492	21.56	ug/l	99
8) Diethyl Ether	3.41	74	87310	20.19	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.75	101	158854	20.70	ug/l	100
10) Methyl Iodide	3.95	142	204784	20.04	ug/l	100
11) Tert butyl alcohol	4.81	59	61841	101.92	ug/l	99
12) 1,1-Dichloroethene	3.73	96	141924	20.98	ug/l	99
13) Acrolein	3.61	56	50966	124.05	ug/l	95
14) Allyl chloride	4.32	41	216601	20.43	ug/l	99
15) Acrylonitrile	5.00	53	273293	102.96	ug/l	99
16) Acetone	3.82	43	212241	96.41	ug/l	100
17) Carbon Disulfide	4.05	76	431479	21.22	ug/l	99
18) Methyl Acetate	4.33	43	169892	20.17	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	385735	20.92	ug/l	99
20) Methylene Chloride	4.55	84	163148	19.48	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	152408	21.35	ug/l	99
22) Diisopropyl ether	5.96	45	462740	21.52	ug/l	95
23) Vinyl Acetate	5.90	43	1573732	104.45	ug/l	99
24) 1,1-Dichloroethane	5.85	63	292165	21.06	ug/l	99
25) 2-Butanone	6.85	43	327901	104.24	ug/l	99
26) 2,2-Dichloropropane	6.83	77	216233	20.11	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	164300	21.04	ug/l	99
28) Bromochloromethane	7.20	49	133235	21.42	ug/l	99
29) Tetrahydrofuran	7.22	42	213906	108.09	ug/l	99
30) Chloroform	7.37	83	289211	20.38	ug/l	99
31) Cyclohexane	7.66	56	231558	17.82	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	251046	20.43	ug/l	99
36) 1,1-Dichloropropene	7.80	75	216422	21.09	ug/l	98
37) Ethyl Acetate	6.94	43	146262	20.83	ug/l	99
38) Carbon Tetrachloride	7.78	117	219930	20.00	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.09	83	208261	19.62	ug/l	96
40) Benzene	8.05	78	647447	20.66	ug/l	100
41) Methacrylonitrile	7.18	41	76761	22.28	ug/l #	80
42) 1,2-Dichloroethane	8.13	62	214479	20.72	ug/l	99
43) Isopropyl Acetate	8.17	43	279492	22.62	ug/l	98
44) Trichloroethene	8.84	130	170065	20.72	ug/l	97
45) 1,2-Dichloropropane	9.12	63	170940	20.30	ug/l	97
46) Dibromomethane	9.21	93	105928	20.28	ug/l	99
47) Bromodichloromethane	9.41	83	217410	20.14	ug/l	100
48) Methyl methacrylate	9.20	41	127503	20.56	ug/l	98
49) 1,4-Dioxane	9.20	88	34655	400.79	ug/l	100
51) 4-Methyl-2-Pentanone	9.99	43	740433	107.68	ug/l	98
52) Toluene	10.16	92	388667	20.86	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	206913	19.44	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	239036	20.28	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	151486	19.74	ug/l	98
56) Ethyl methacrylate	10.43	69	172900	19.41	ug/l	98
57) 1,3-Dichloropropane	10.71	76	245401	20.27	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	411913	101.36	ug/l	99
59) 2-Hexanone	10.75	43	485157	105.19	ug/l	99
60) Dibromochloromethane	10.90	129	166938	19.85	ug/l	100
61) 1,2-Dibromoethane	11.01	107	145128	20.20	ug/l	98
64) Tetrachloroethene	10.63	164	166393	22.18	ug/l	97
65) Chlorobenzene	11.44	112	414464	20.03	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	158888	19.84	ug/l	99
67) Ethyl Benzene	11.51	91	681368	20.31	ug/l	99
68) m/p-Xylenes	11.62	106	538229	42.43	ug/l	99
69) o-Xylene	11.95	106	249835	20.52	ug/l	100
70) Styrene	11.97	104	407938	20.77	ug/l	99
71) Bromoform	12.13	173	116212	20.36	ug/l #	100
73) Isopropylbenzene	12.25	105	664802	20.66	ug/l	99
74) N-amyl acetate	12.07	43	196273	20.08	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	191335	19.89	ug/l	100
76) 1,2,3-Trichloropropane	12.56	75	152759m	19.39	ug/l	
77) Bromobenzene	12.53	156	174777	19.68	ug/l	98
78) n-propylbenzene	12.59	91	765602	20.94	ug/l	100
79) 2-Chlorotoluene	12.68	91	466799	20.80	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	553382	21.48	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	49105	19.41	ug/l	95
82) 4-Chlorotoluene	12.78	91	463864	20.61	ug/l	99
83) tert-Butylbenzene	12.99	119	460923	20.43	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	564705	21.65	ug/l	100
85) sec-Butylbenzene	13.17	105	631839	21.16	ug/l	100
86) p-Isopropyltoluene	13.29	119	537855	21.12	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	311988	20.19	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	297917	19.25	ug/l	98
89) n-Butylbenzene	13.62	91	415101	19.77	ug/l	97
90) Hexachloroethane	13.88	117	106146	18.60	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	310177	20.43	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	30576	20.42	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	134010	19.22	ug/l	99
94) Hexachlorobutadiene	15.01	225	93396	18.80	ug/l	98
95) Naphthalene	15.14	128	282075	18.40	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	142163	19.60	ug/l	99

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

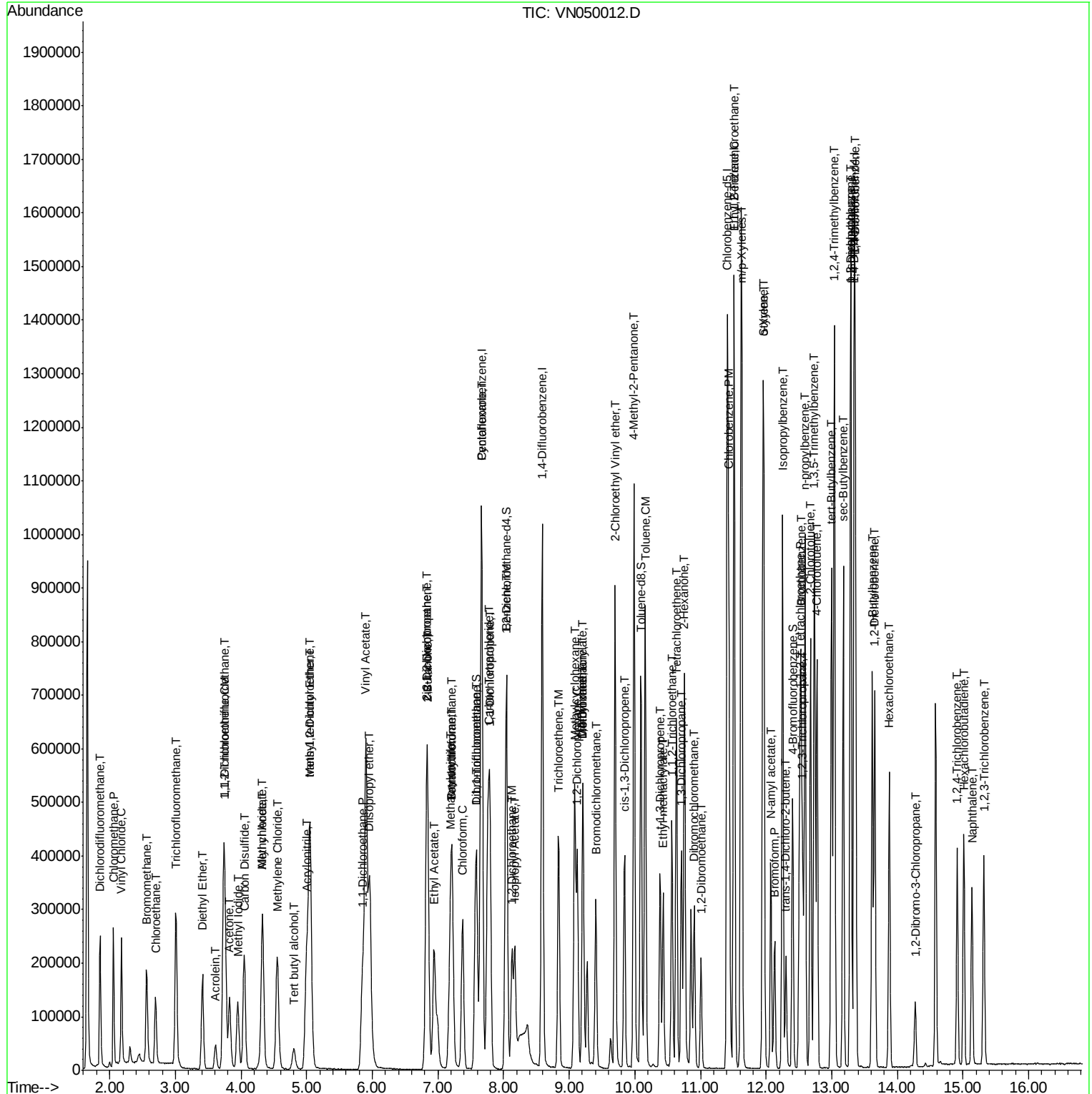
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072418\
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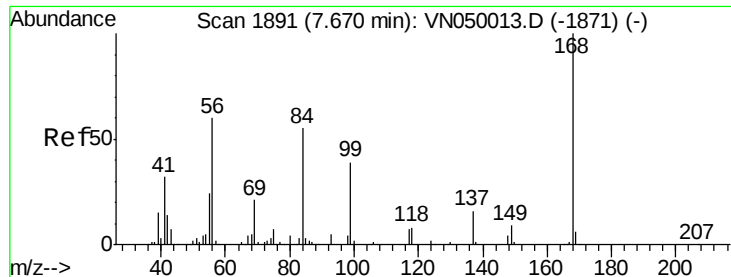
Instrument :
MSVOA_N
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 614431

Ion Ratio Lower Upper

168 100

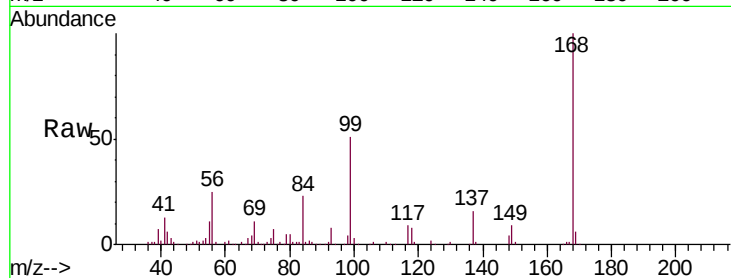
99 50.3 40.0 60.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

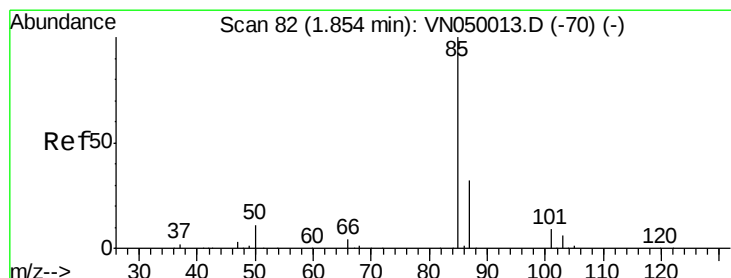
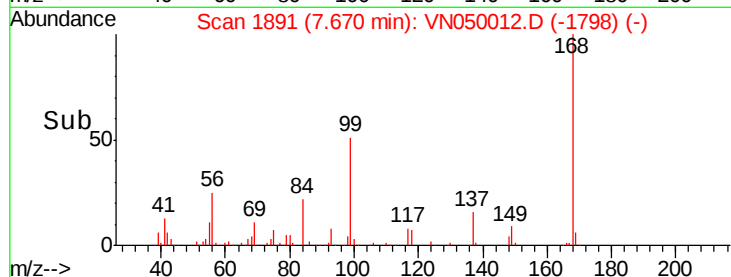
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 27.79 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN050012.D

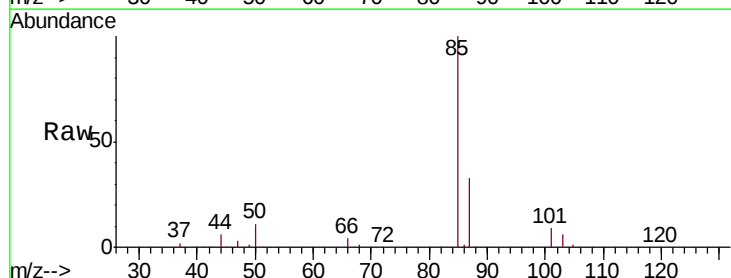
Acq: 23 Jul 2018 18:22

Tgt Ion: 85 Resp: 200197

Ion Ratio Lower Upper

85 100

87 32.8 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

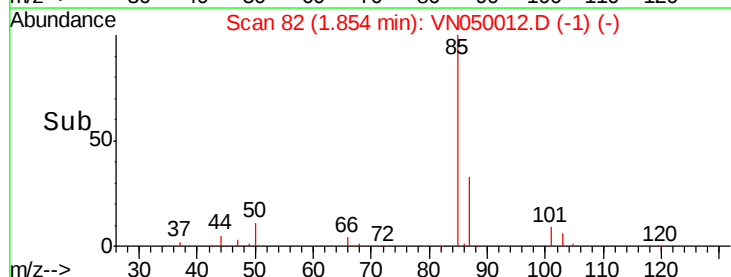
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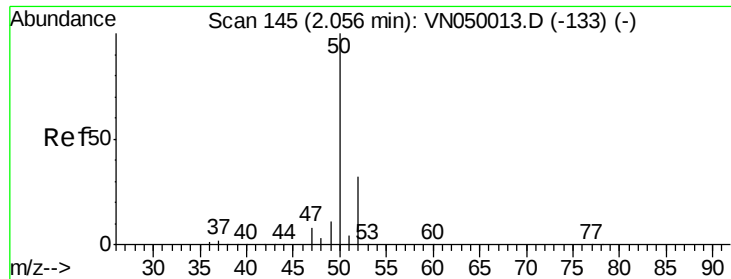
100000

50000

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Time-->





#3

Chloromethane

Concen: 22.31 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 193816

Ion Ratio Lower Upper

50 100

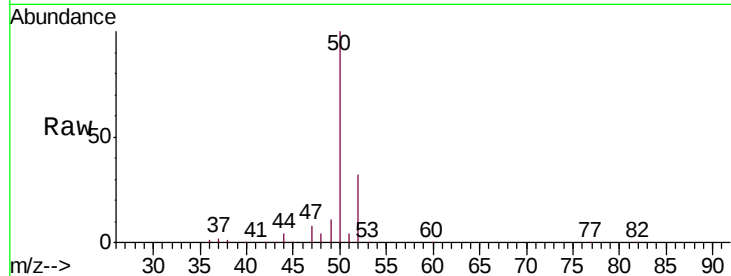
52 32.2 25.9 38.9

Manual Integrations

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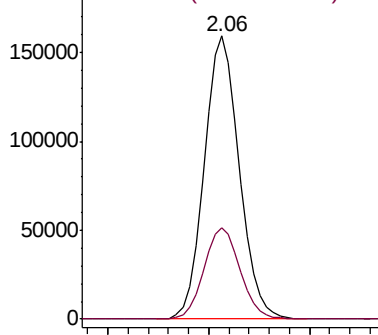
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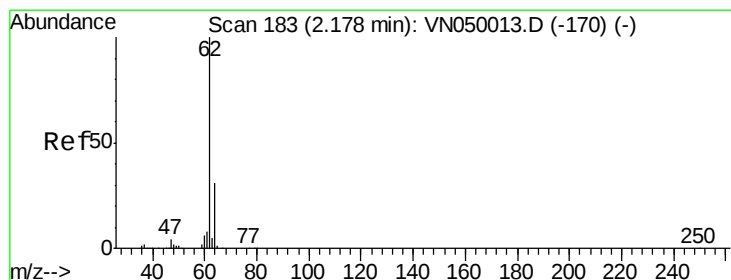
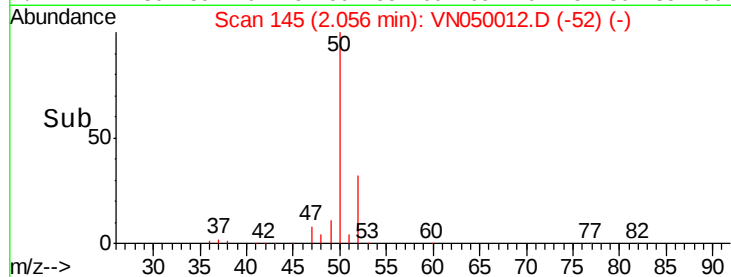


Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



Time-->



#4

Vinyl Chloride

Concen: 22.58 ug/l

RT: 2.18 min Scan# 183

Delta R.T. 0.00 min

Lab File: VN050012.D

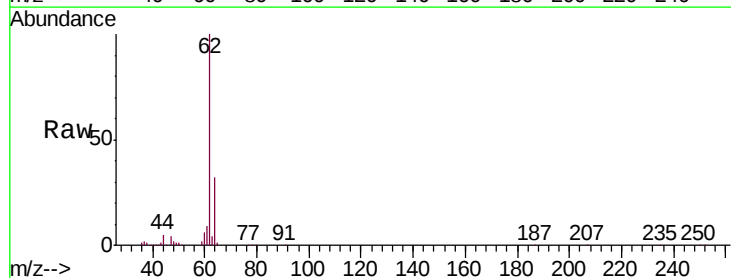
Acq: 23 Jul 2018 18:22

Tgt Ion: 62 Resp: 207962

Ion Ratio Lower Upper

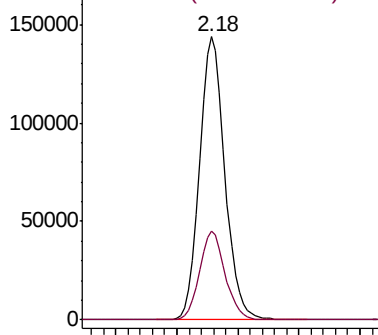
62 100

64 31.6 24.7 37.1

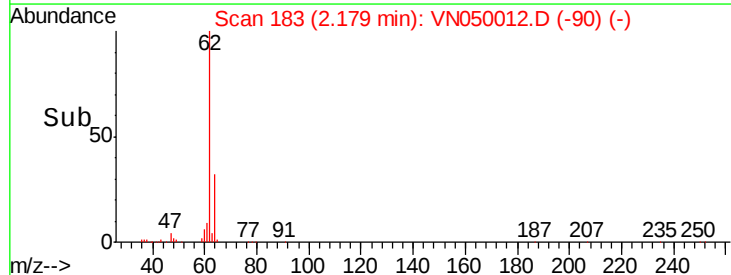


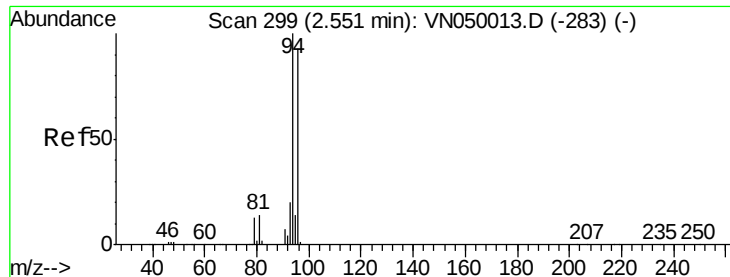
Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



Time-->





#5

Bromomethane

Concen: 20.36 ug/l

RT: 2.56 min Scan# 302

Delta R.T. 0.01 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

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Tot Ion: 94 Resp: 119665

Ion Ratio Lower Upper

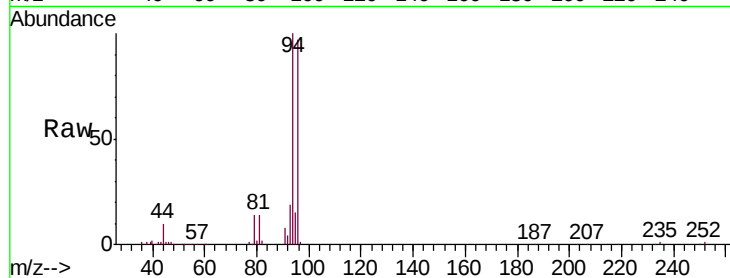
94 100

96 96.7 74.6 112.0

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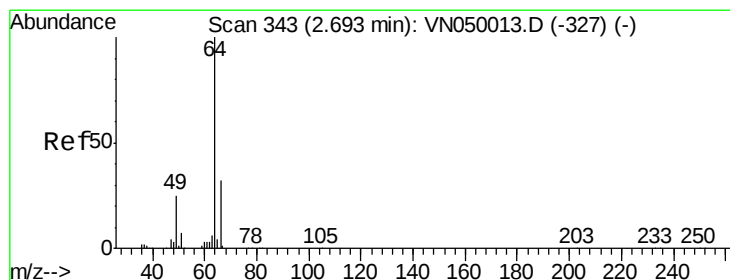
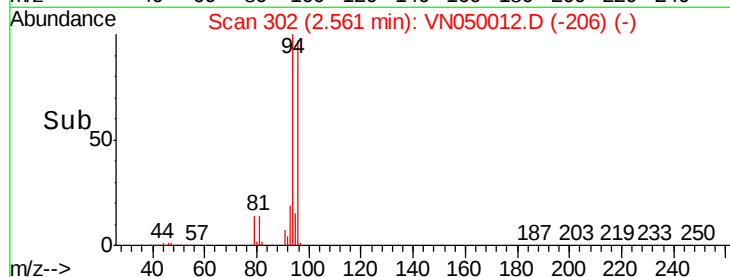
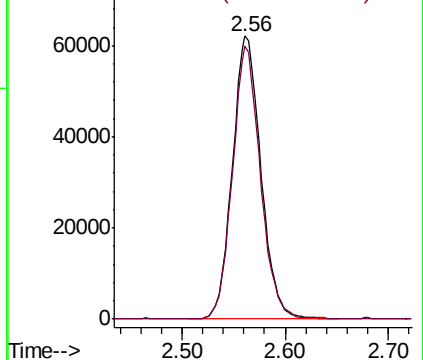
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.30 ug/l

RT: 2.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VN050012.D

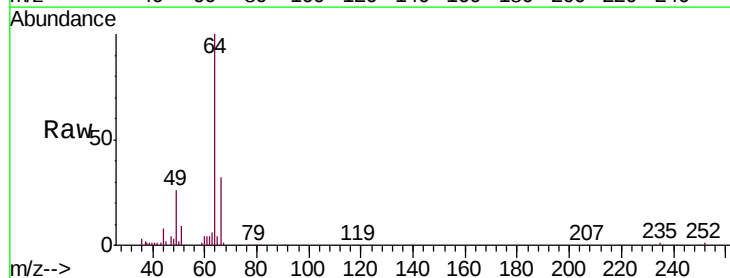
Acq: 23 Jul 2018 18:22

Tgt Ion: 64 Resp: 120121

Ion Ratio Lower Upper

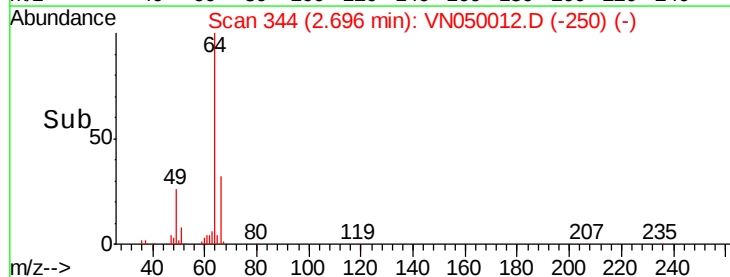
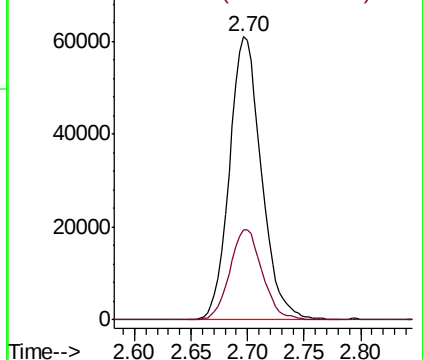
64 100

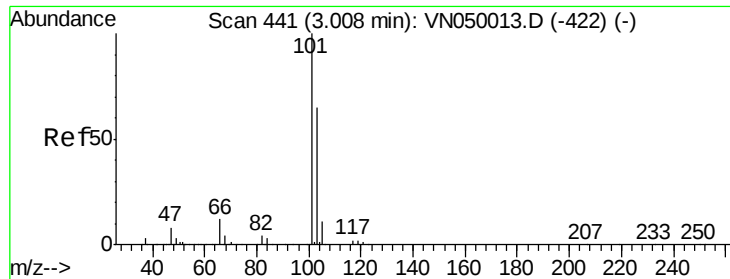
66 31.6 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

Trichlorofluoromethane

Concen: 21.56 ug/l

RT: 3.01 min Scan# 441

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:101 Resp: 269492

Ion Ratio Lower Upper

101 100

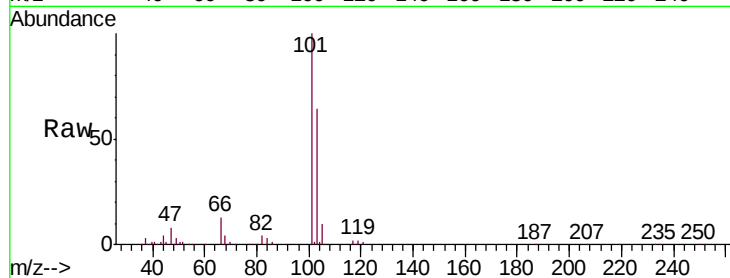
103 64.2 51.7 77.5

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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.01

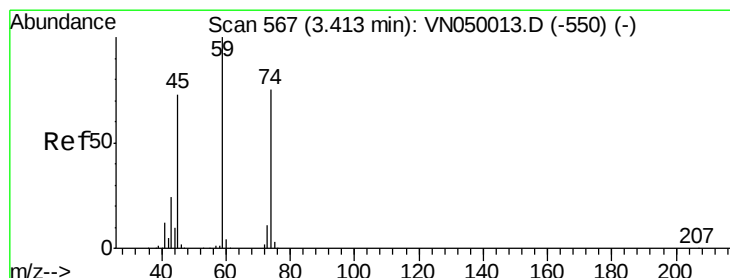
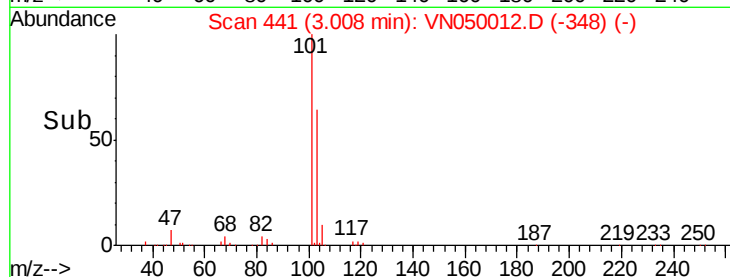
150000

100000

50000

0

Time--> 2.90 2.95 3.00 3.05 3.10



#8

Diethyl Ether

Concen: 20.19 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN050012.D

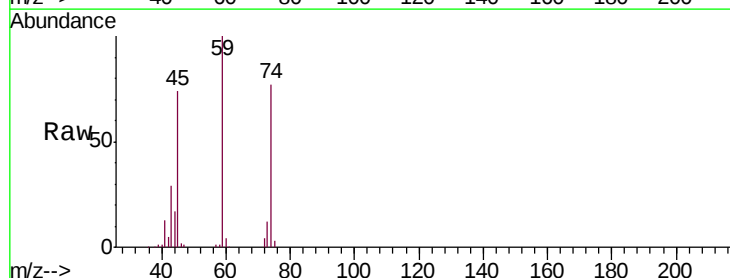
Acq: 23 Jul 2018 18:22

Tgt Ion: 74 Resp: 87310

Ion Ratio Lower Upper

74 100

45 99.6 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

40000

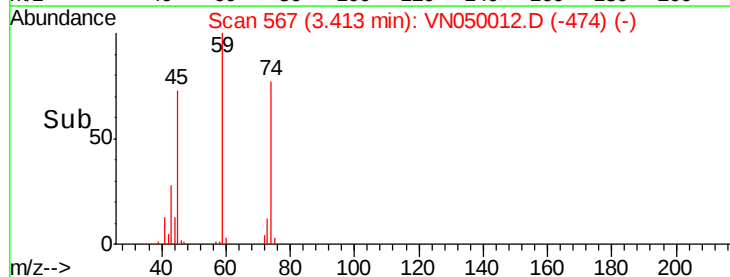
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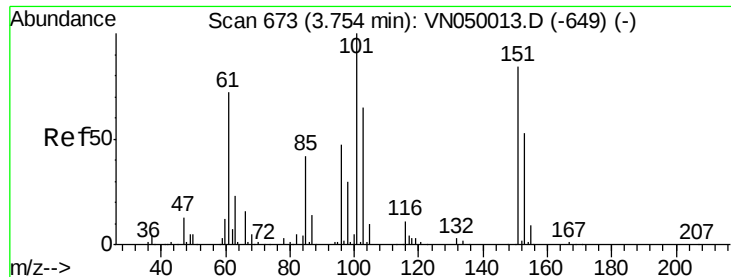
20000

10000

0

Time--> 3.30 3.40 3.50





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.70 ug/l

RT: 3.75 min Scan# 673

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

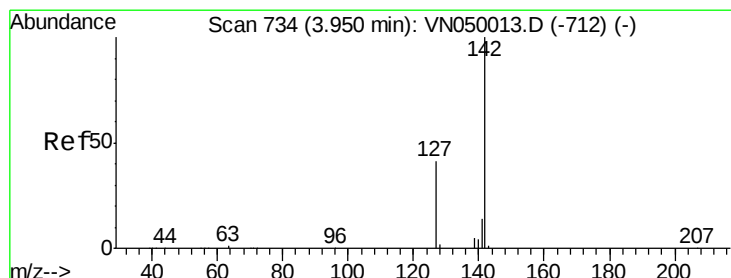
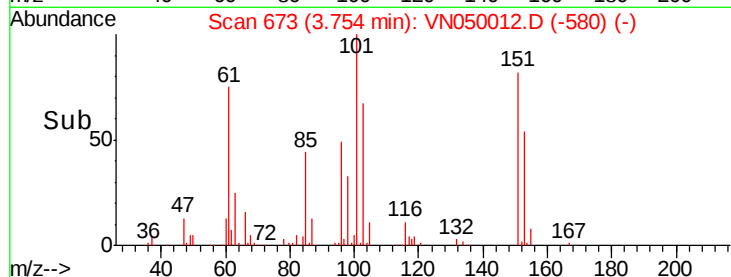
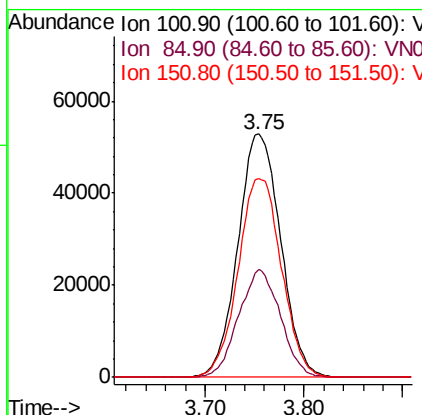
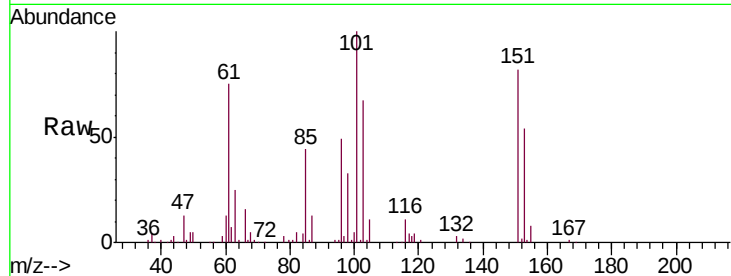
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	158854
Ion Ratio	Lower	Upper	
101	100		
85	43.1	34.2	51.2
151	82.9	66.3	99.5

Manual Integrations
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#10

Methyl Iodide

Concen: 20.04 ug/l

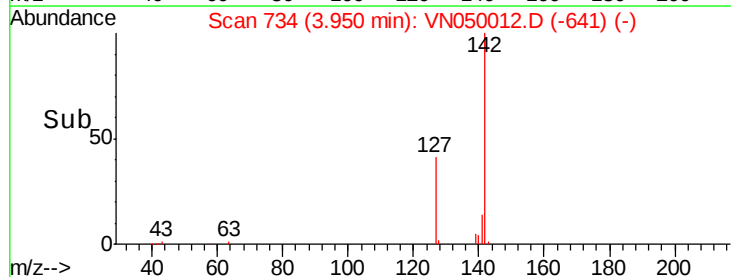
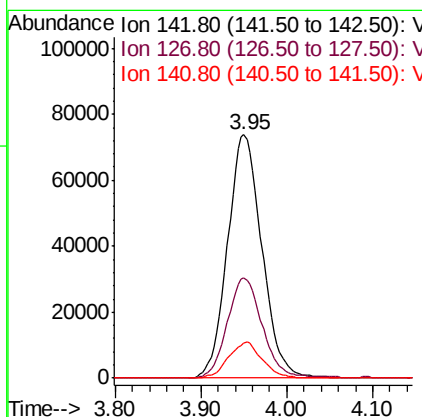
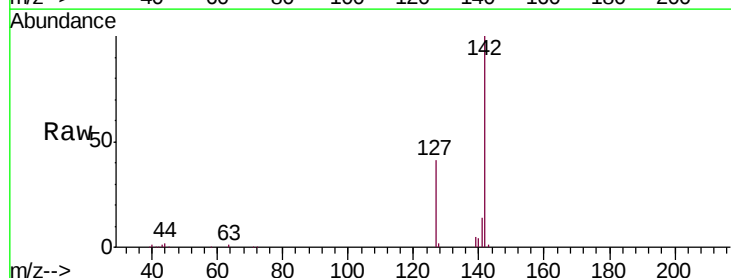
RT: 3.95 min Scan# 734

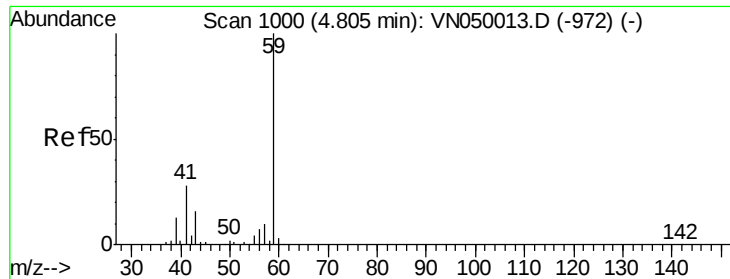
Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Tgt Ion:	142	Resp:	204784
Ion Ratio	Lower	Upper	
142	100		
127	41.9	33.4	50.2
141	14.4	11.6	17.4





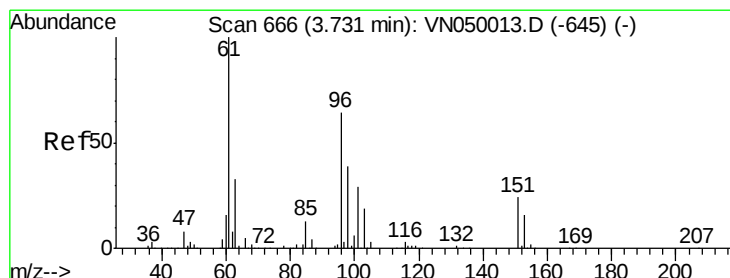
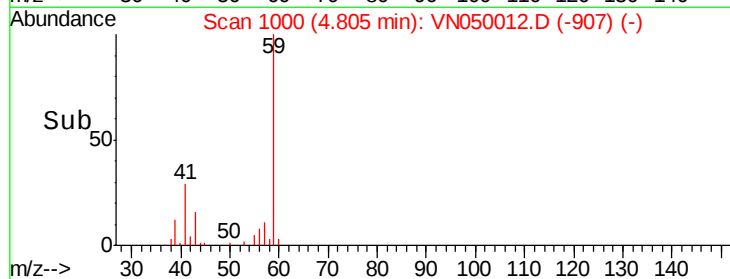
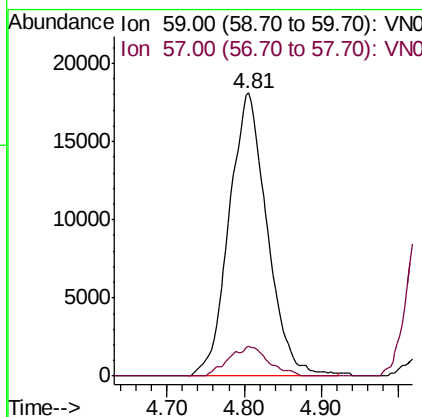
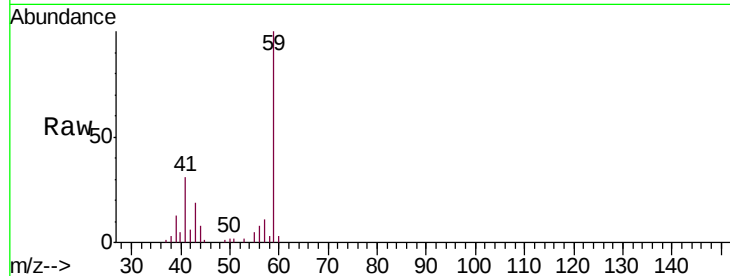
#11
Tert butyl alcohol
Concen: 101.92 ug/l
RT: 4.81 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	59	Resp	61841
Ion Ratio	100	Lower	Upper
57	10.9	8.5	12.7

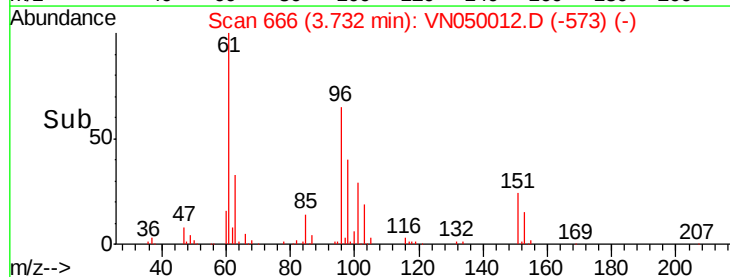
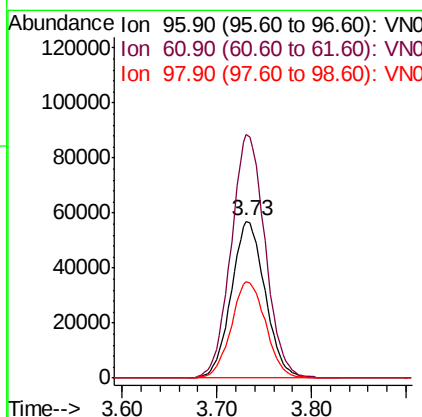
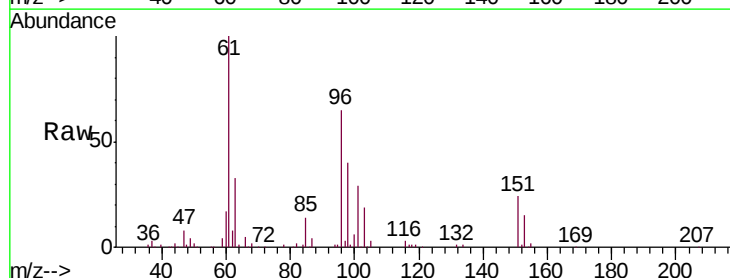
Manual Integrations
APPROVED

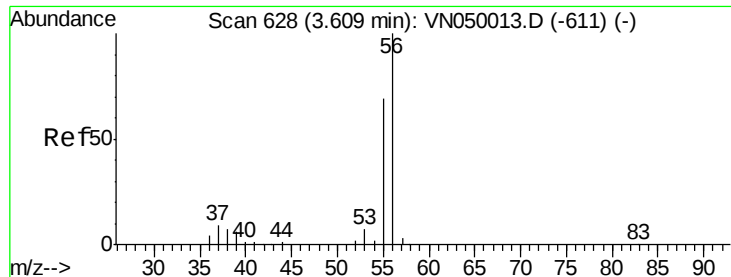
MMDadoda
7/26/2018 1:50:47 PM



#12
1,1-Dichloroethene
Concen: 20.98 ug/l
RT: 3.73 min Scan# 666
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	96	Resp	141924
Ion Ratio	100	Lower	Upper
61	154.9	124.4	186.6
98	61.4	48.3	72.5





#13

Acrolein

Concen: 124.05 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 50966

Ion Ratio Lower Upper

56 100

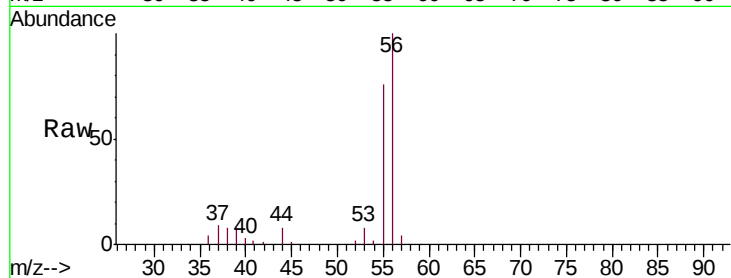
55 73.4 55.8 83.6

Manual Integrations

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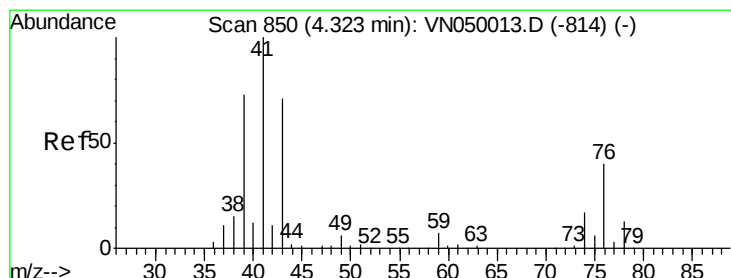
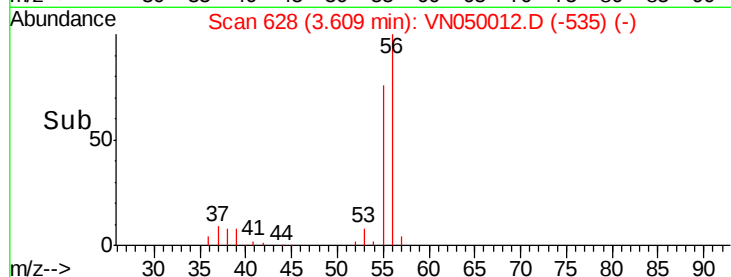
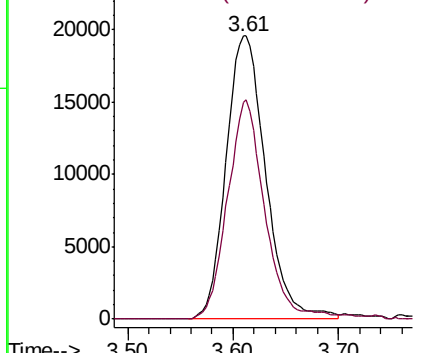
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 20.43 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

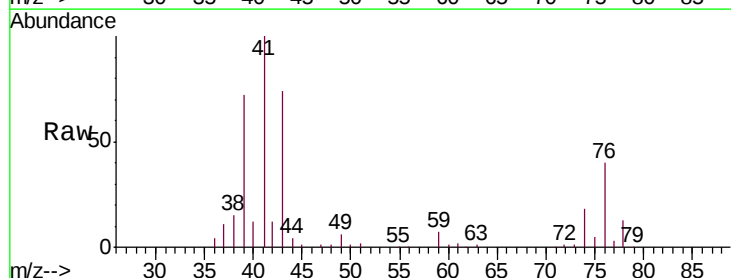
Tgt Ion: 41 Resp: 216601

Ion Ratio Lower Upper

41 100

39 68.8 54.2 81.4

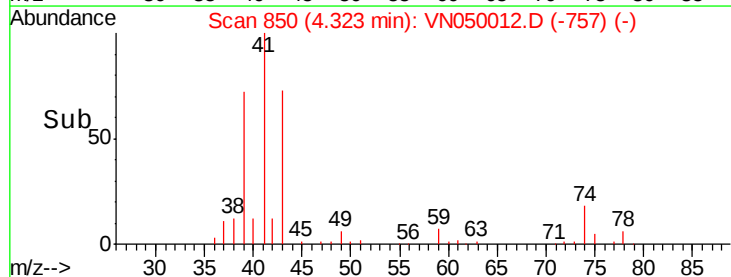
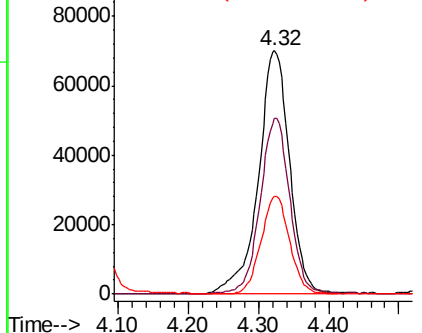
76 36.9 29.0 43.6

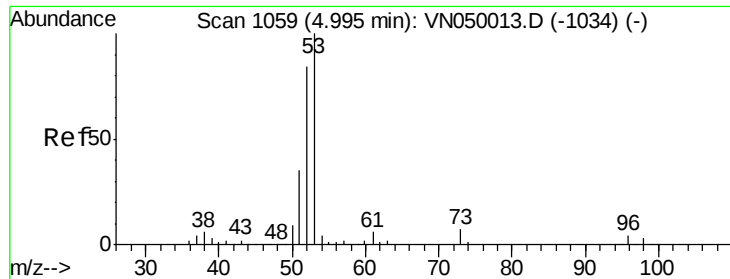


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





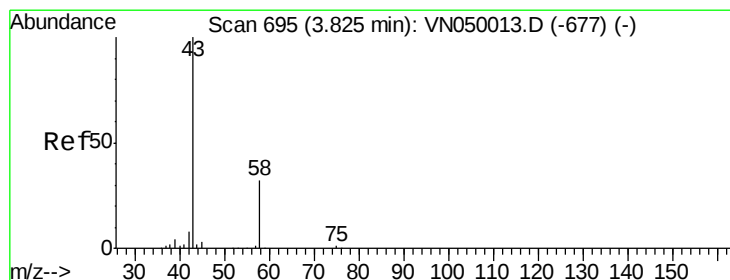
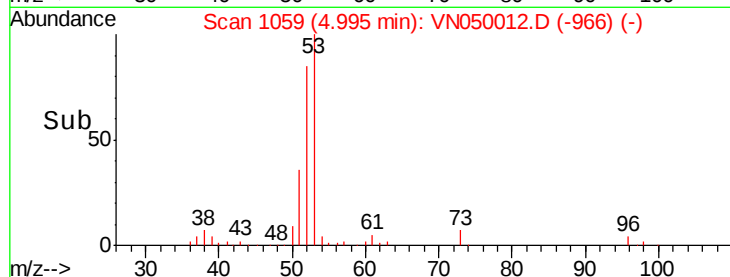
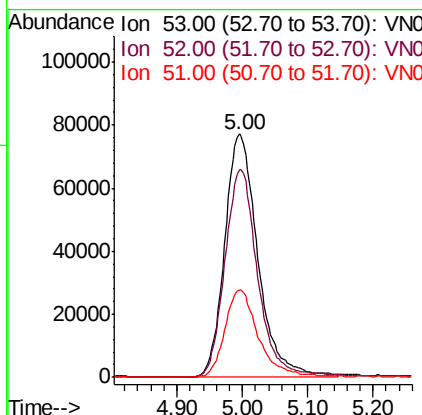
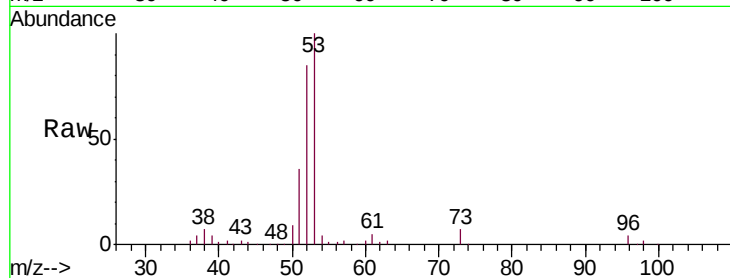
#15
 Acrylonitrile
 Concen: 102.96 ug/l
 RT: 5.00 min Scan# 1059
 Delta R.T. 0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.6	66.2	99.2
51	36.3	29.3	43.9

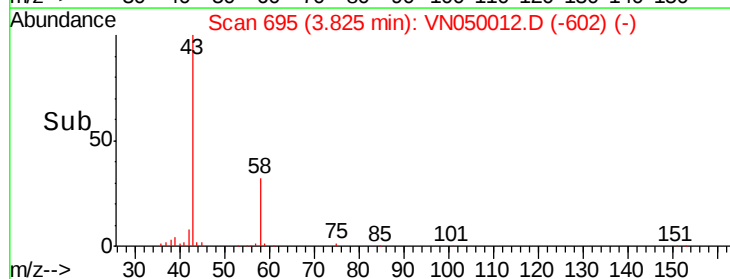
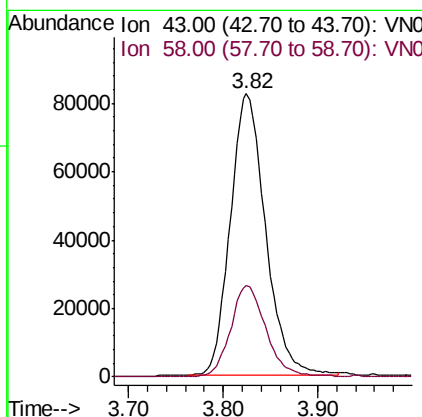
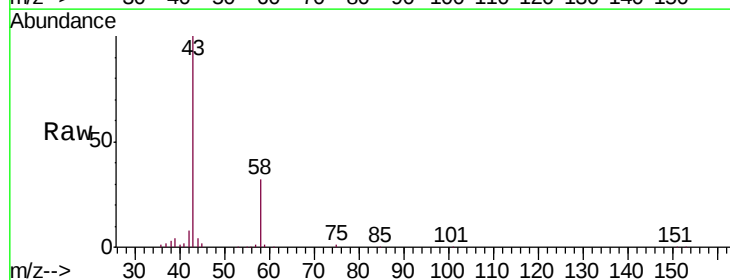
Manual Integrations
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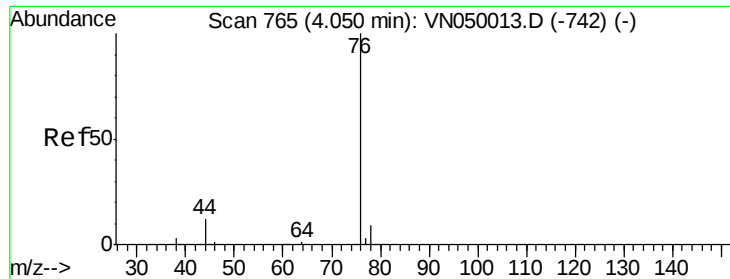
MMDadoda
 7/26/2018 1:50:47 PM



#16
 Acetone
 Concen: 96.41 ug/l
 RT: 3.82 min Scan# 695
 Delta R.T. 0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.3	25.8	38.8





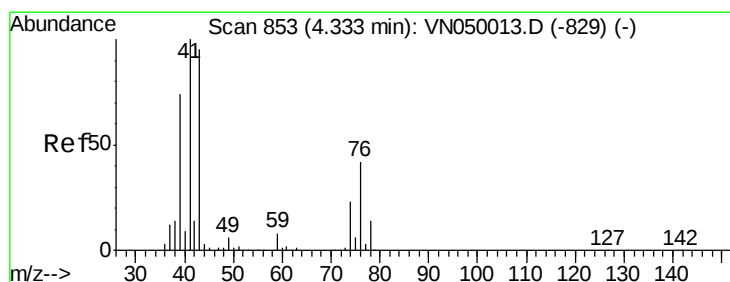
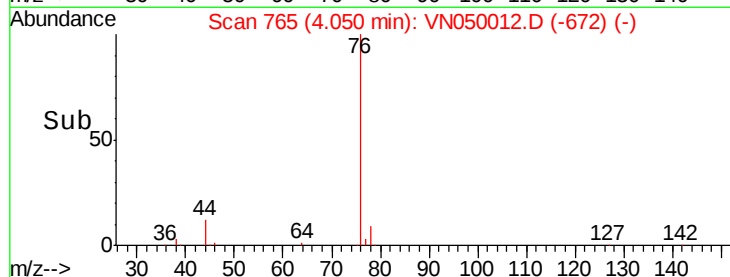
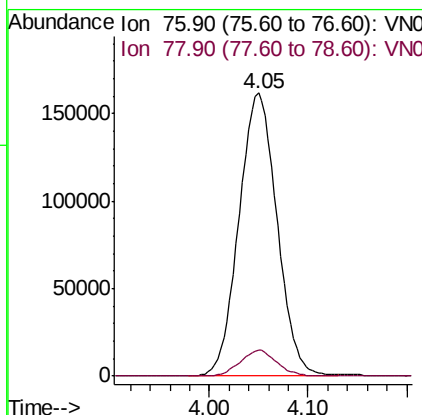
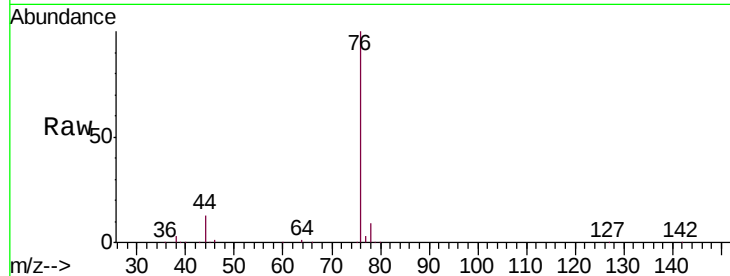
#17
Carbon Disulfide
Concen: 21.22 ug/l
RT: 4.05 min Scan# 765
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.3	10.9

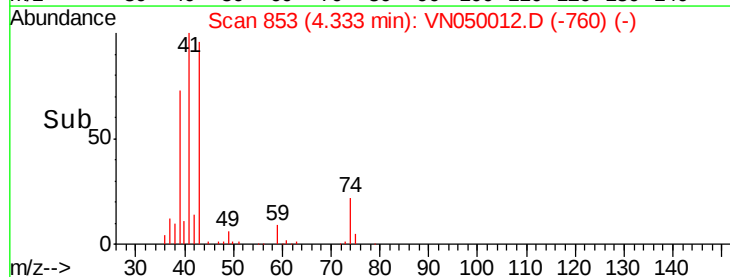
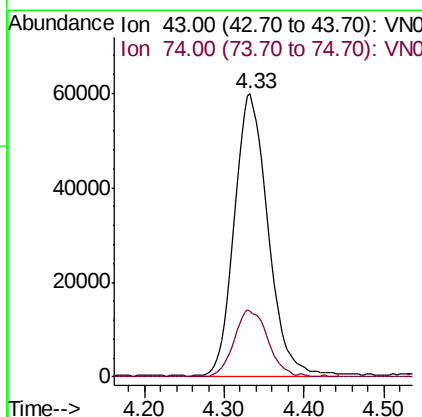
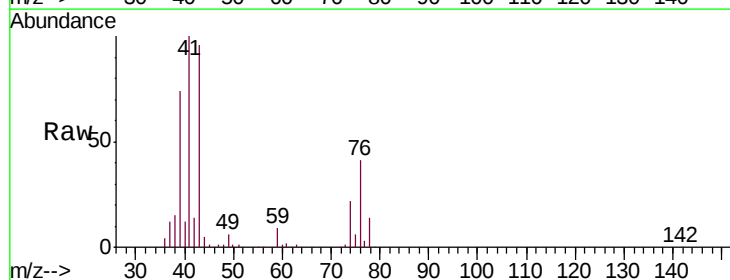
Manual Integrations
APPROVED

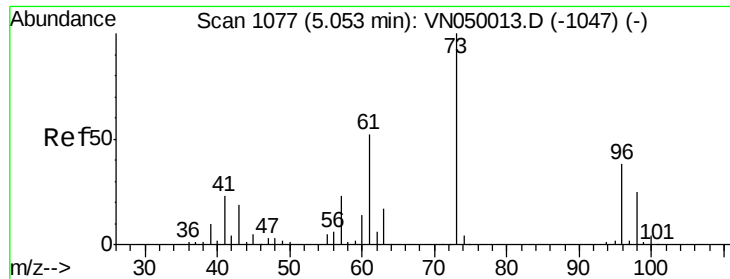
MMDadoda
7/26/2018 1:50:47 PM



#18
Methyl Acetate
Concen: 20.17 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.8	19.2	28.8





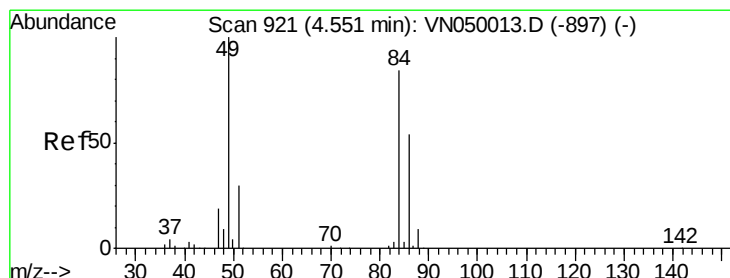
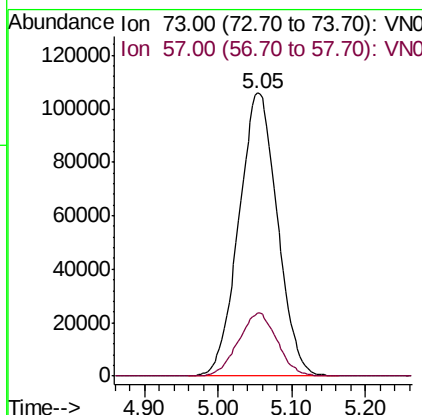
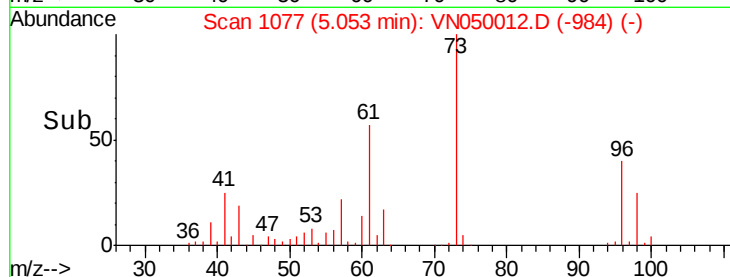
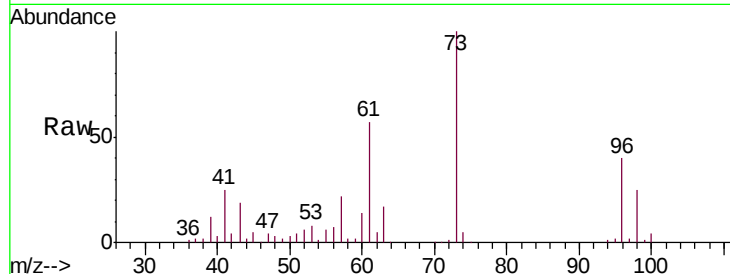
#19
Methvl tert-butvl Ether
Concen: 20.92 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 385735
Ion Ratio Lower Upper
73 100
57 22.2 18.0 27.0

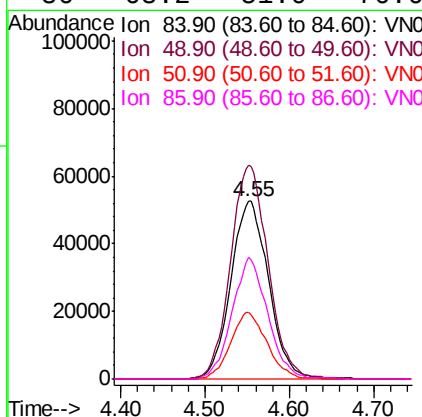
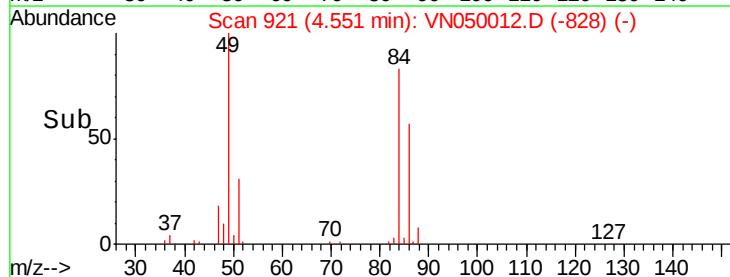
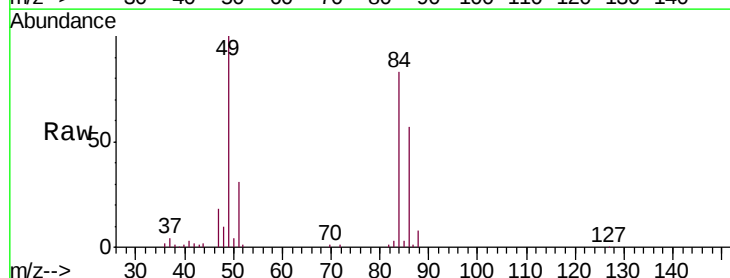
Manual Integrations
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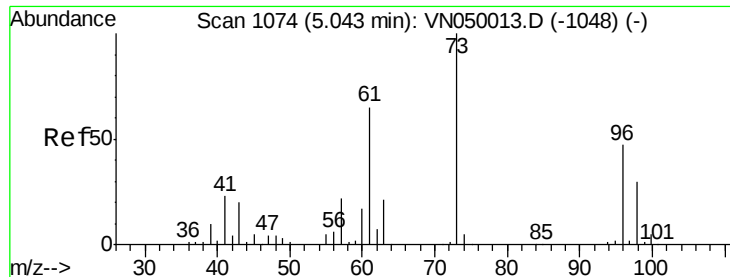
MMDadoda
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#20
Methylene Chloride
Concen: 19.48 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion: 84 Resp: 163148
Ion Ratio Lower Upper
84 100
49 120.3 94.8 142.2
51 37.2 28.3 42.5
86 68.2 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 21.35 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 96 Resp: 152408

Ion Ratio Lower Upper

96 100

61 137.1 110.7 166.1

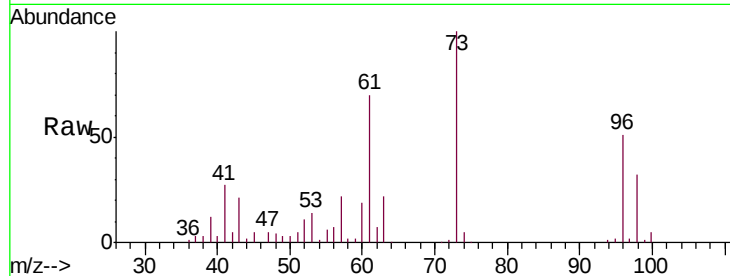
98 63.2 51.6 77.4

Manual Integrations

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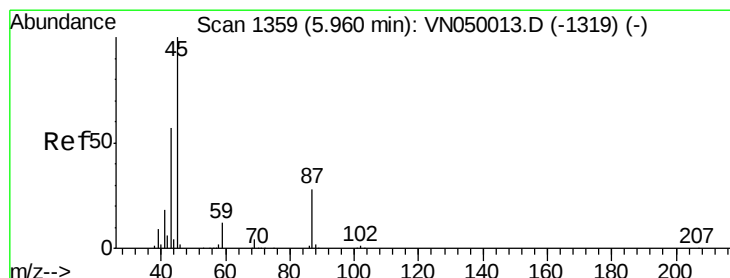
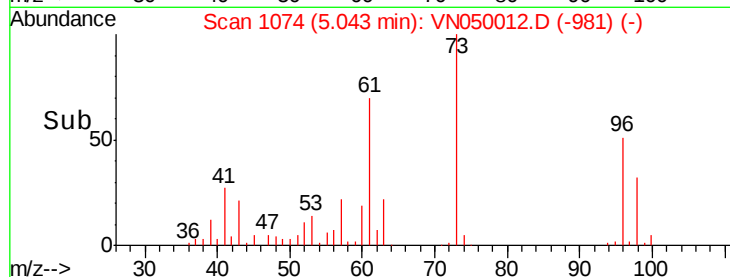
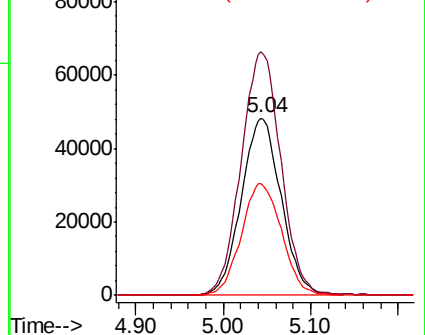


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 21.52 ug/l

RT: 5.96 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Tgt Ion: 45 Resp: 462740

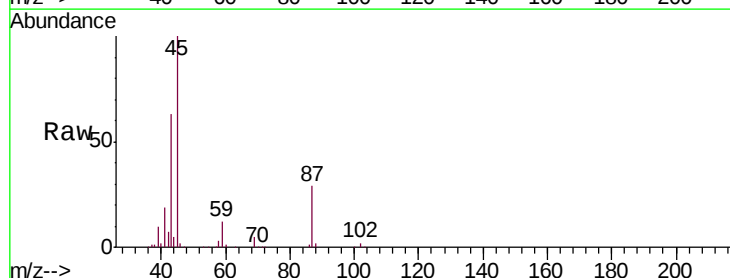
Ion Ratio Lower Upper

45 100

43 62.4 45.7 68.5

87 29.1 22.7 34.1

59 11.6 9.5 14.3



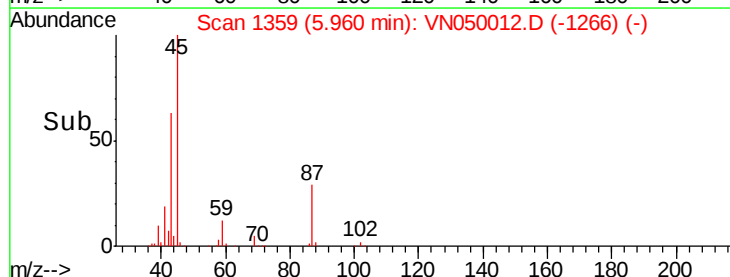
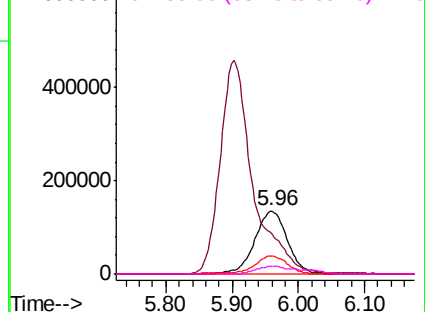
Abundance

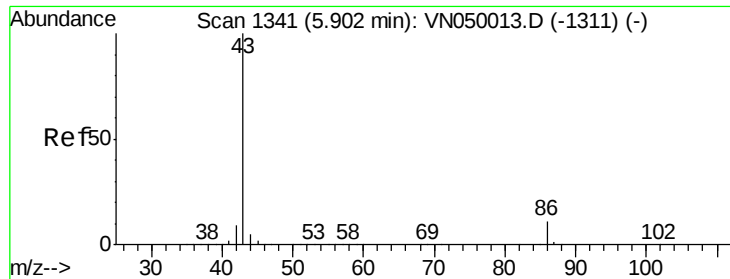
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





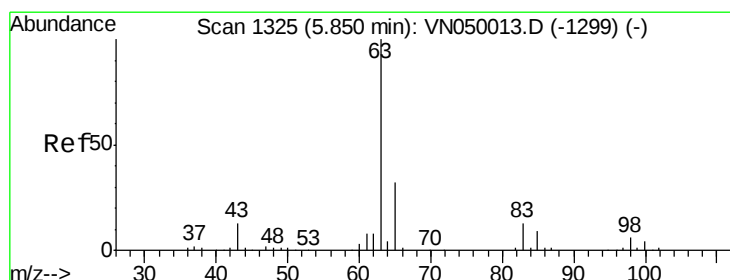
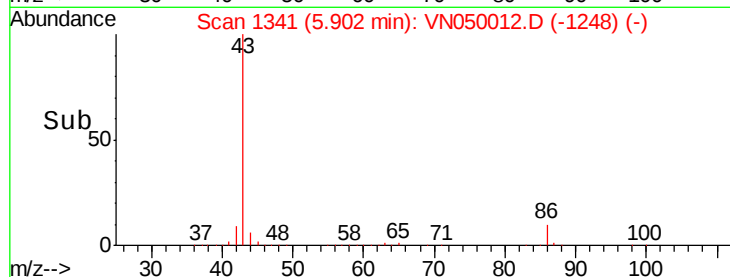
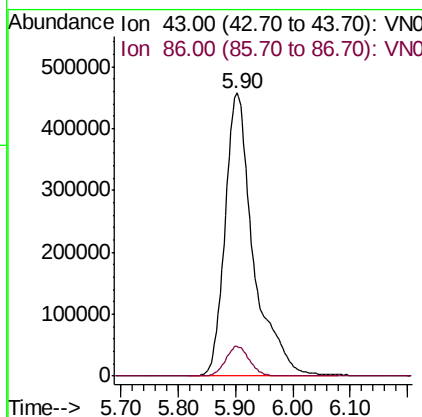
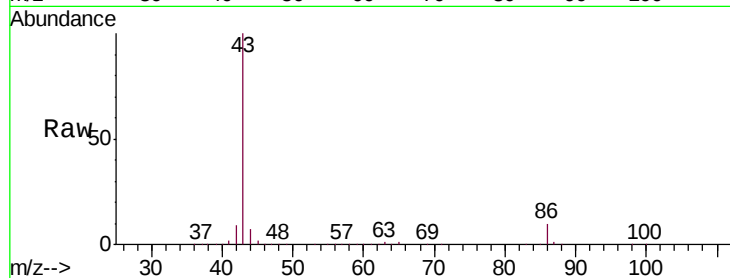
#23
 Vinyl Acetate
 Concen: 104.45 ug/l
 RT: 5.90 min Scan# 1341
 Delta R.T. 0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC020

Tot Ion: 43 Resp: 1573732
 Ion Ratio Lower Upper
 43 100
 86 10.5 8.6 13.0

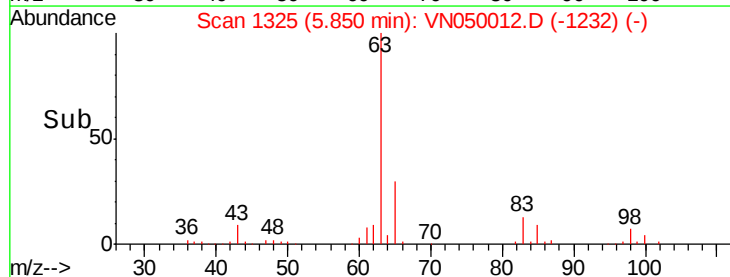
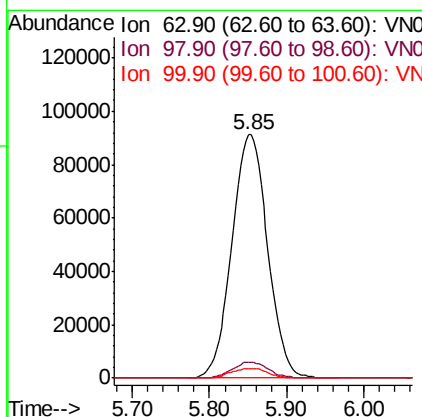
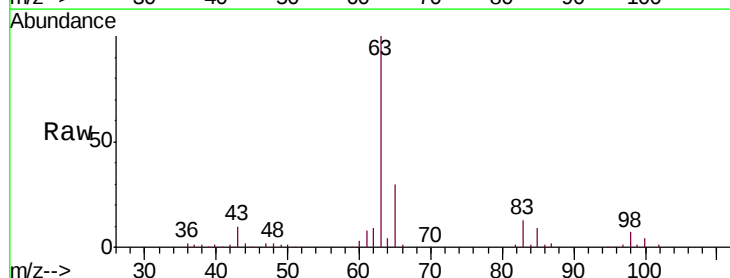
Manual Integrations
 APPROVED

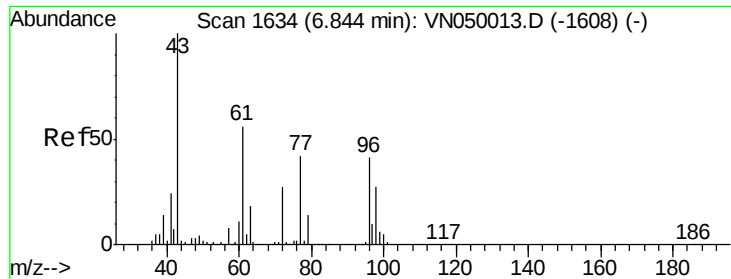
MMDadoda
 7/26/2018 1:50:47 PM



#24
 1,1-Dichloroethane
 Concen: 21.06 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. 0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Tgt Ion: 63 Resp: 292165
 Ion Ratio Lower Upper
 63 100
 98 6.7 3.3 9.8
 100 3.9 2.1 6.3





#25

2-Butanone

Concen: 104.24 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 327901

Ion Ratio Lower Upper

43 100

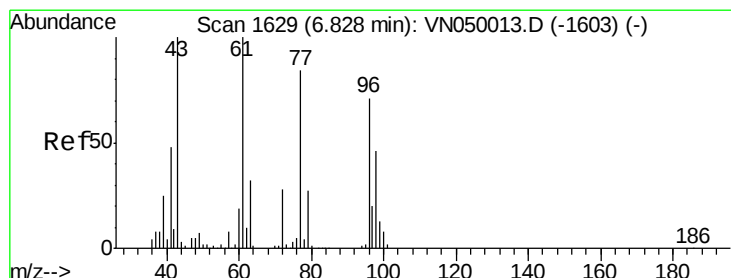
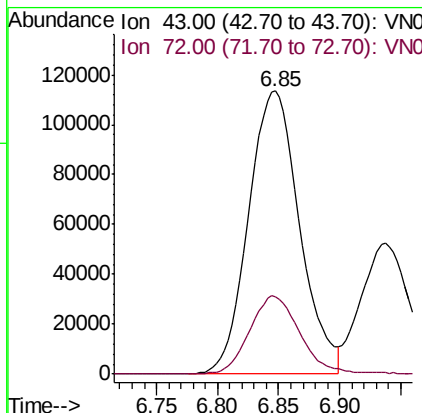
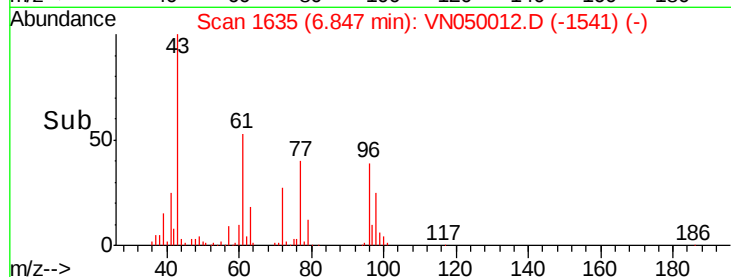
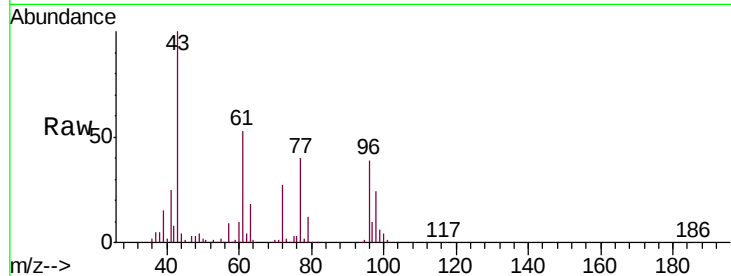
72 27.2 21.5 32.3

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 20.11 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050012.D

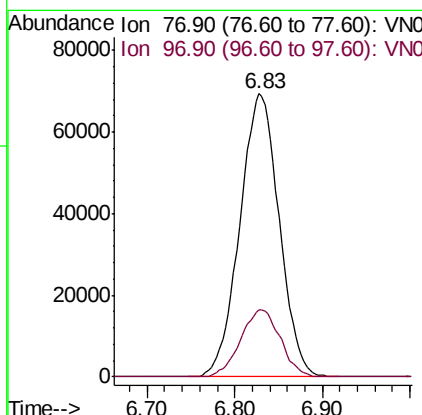
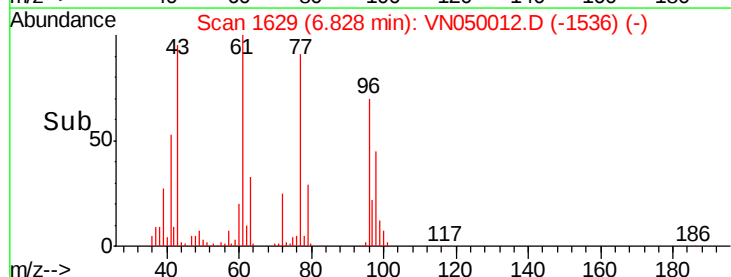
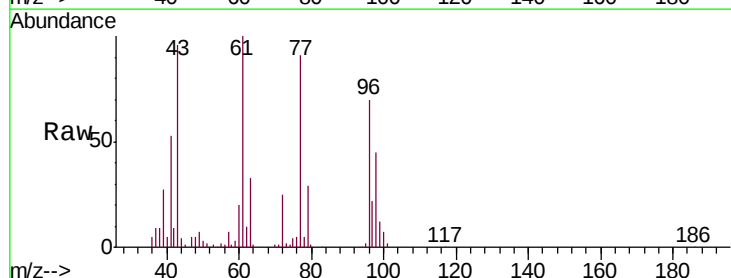
Acq: 23 Jul 2018 18:22

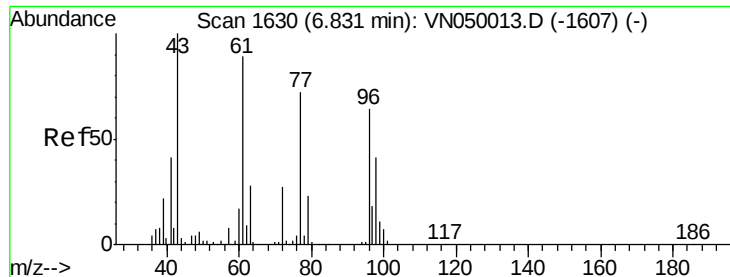
Tgt Ion: 77 Resp: 216233

Ion Ratio Lower Upper

77 100

97 24.0 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 21.04 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

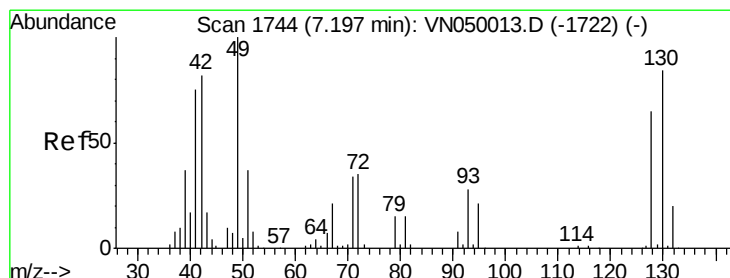
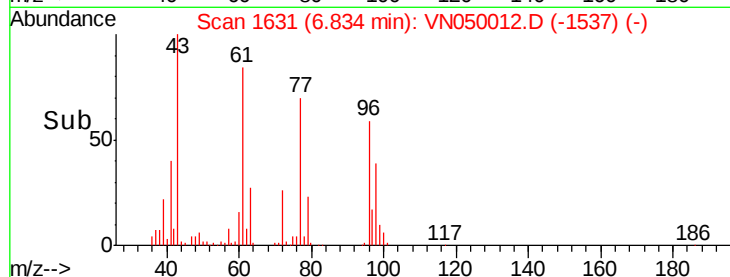
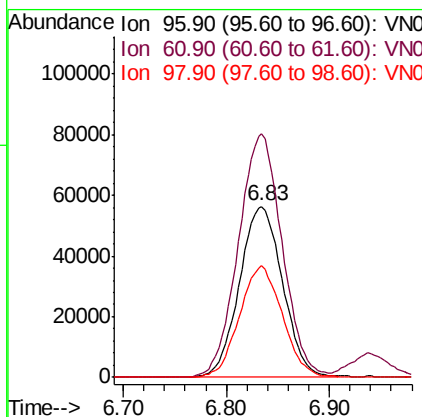
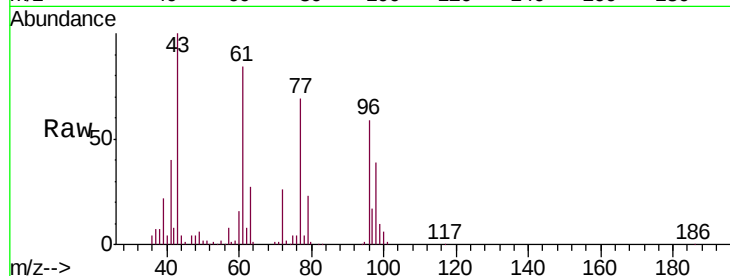
ClientSampleID :

VSTDIC020

Tot Ion:	96	Resp:	164300
Ion Ratio	Lower	Upper	
96	100		
61	143.9	0.0	285.0
98	64.6	0.0	129.2

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#28

Bromochloromethane

Concen: 21.42 ug/l

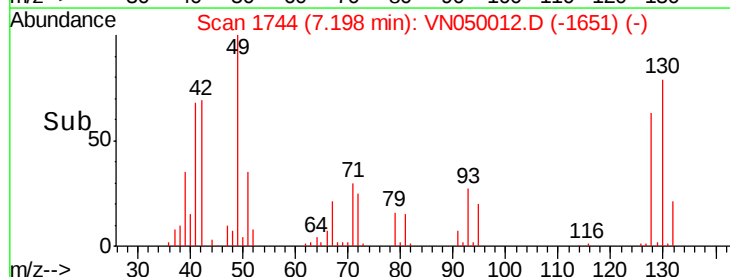
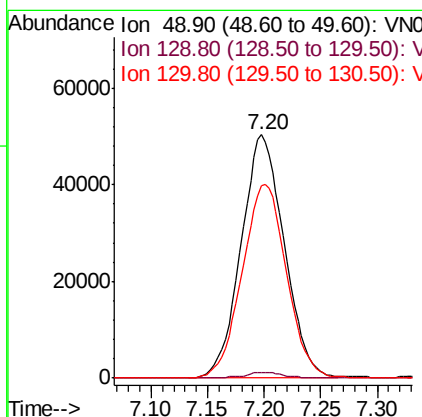
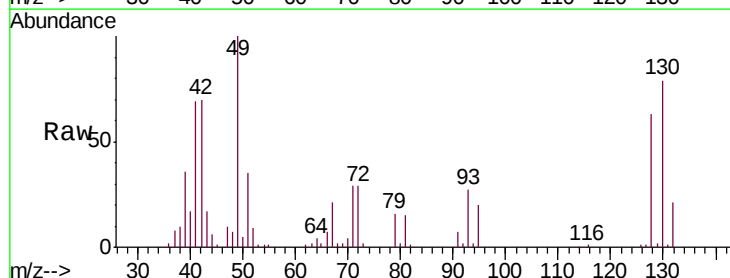
RT: 7.20 min Scan# 1744

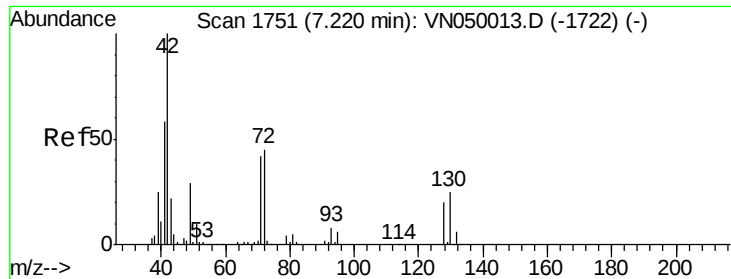
Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Tgt Ion:	49	Resp:	133235
Ion Ratio	Lower	Upper	
49	100		
129	2.1	0.0	4.0
130	82.2	66.3	99.5





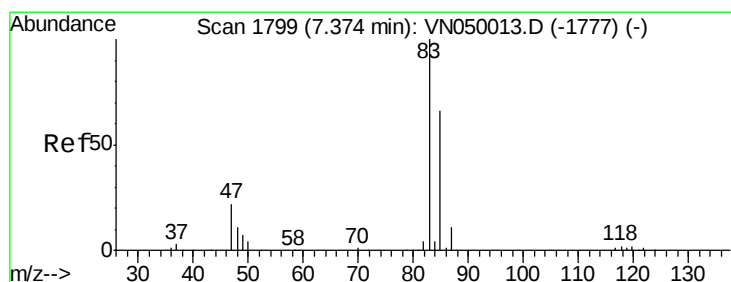
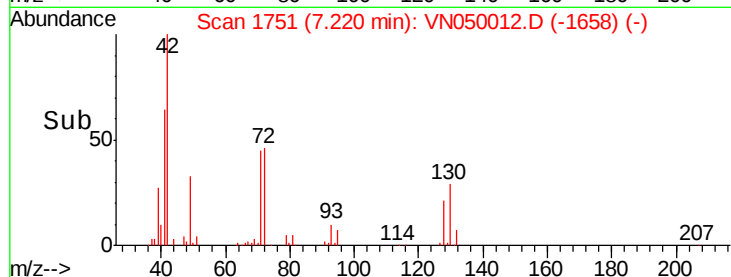
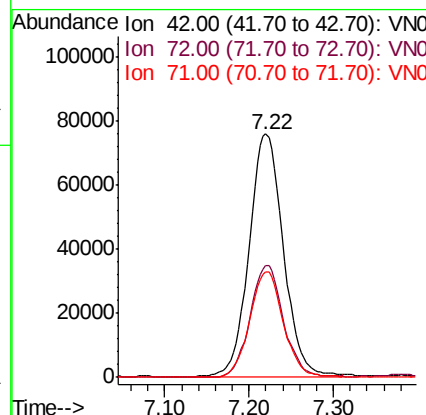
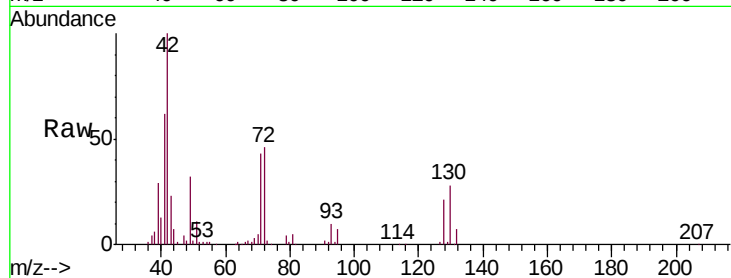
#29
Tetrahydrofuran
Concen: 108.09 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.0	35.9	53.9
71	42.8	33.7	50.5

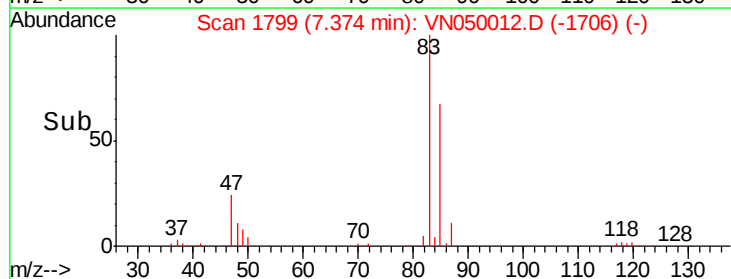
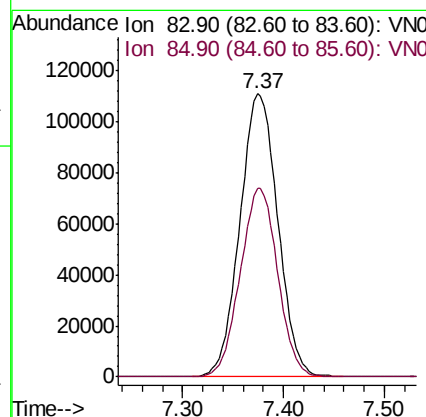
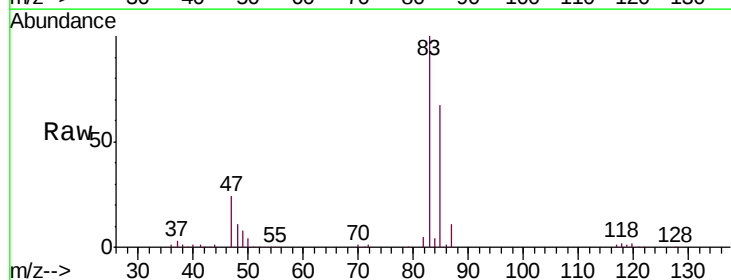
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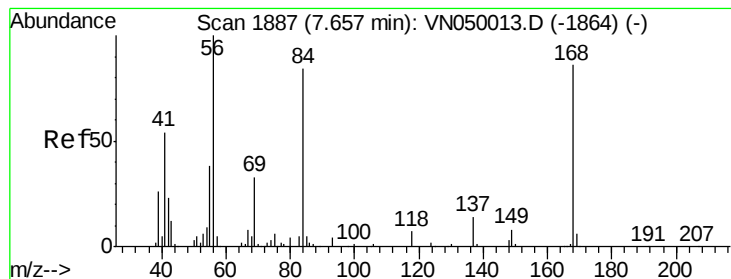
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#30
Chloroform
Concen: 20.38 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.8	52.5	78.7





#31

Cyclohexane

Concen: 17.82 ug/l

RT: 7.66 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

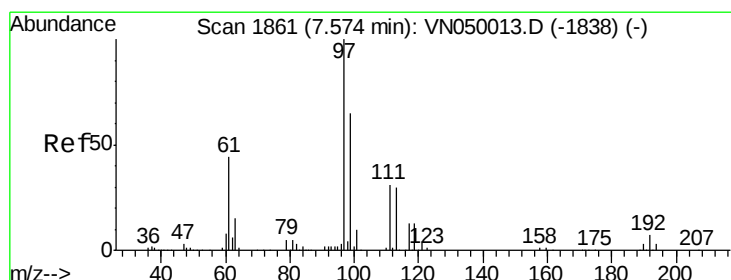
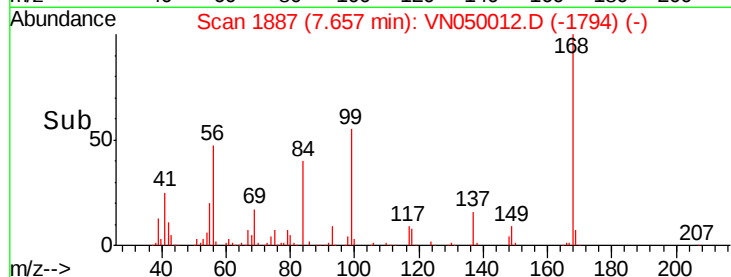
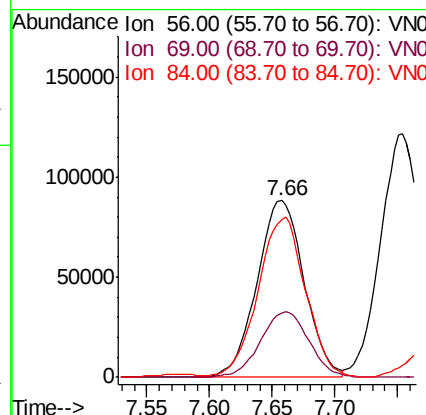
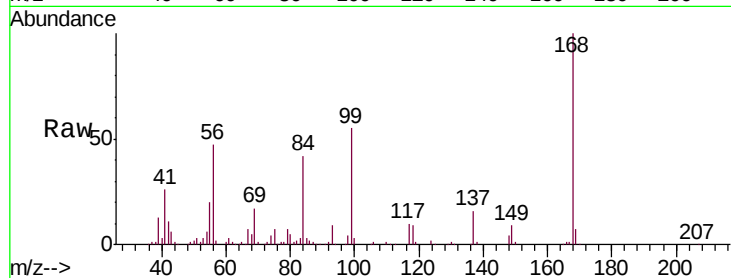
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	231558
Ion Ratio	Lower	Upper	
56	100		
69	36.5	26.2	39.4
84	88.3	67.4	101.0

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#32

1,1,1-Trichloroethane

Concen: 20.43 ug/l

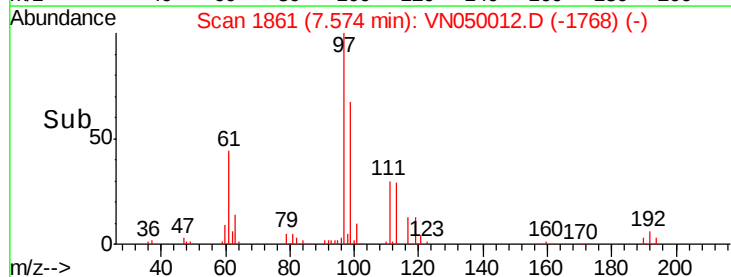
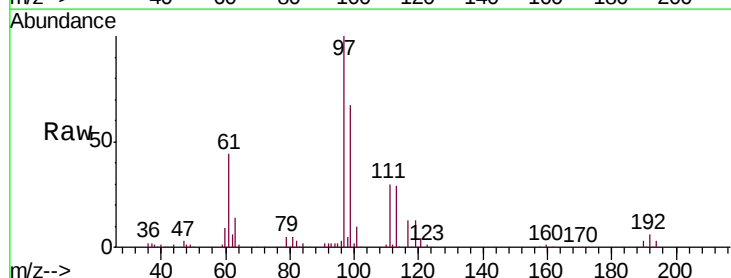
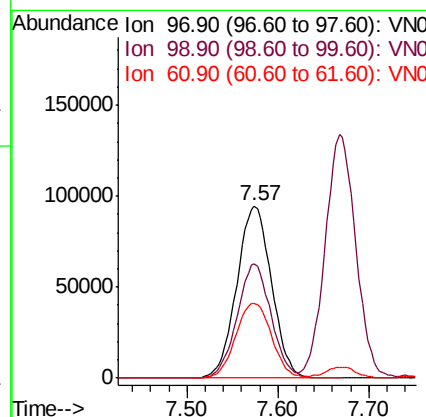
RT: 7.57 min Scan# 1861

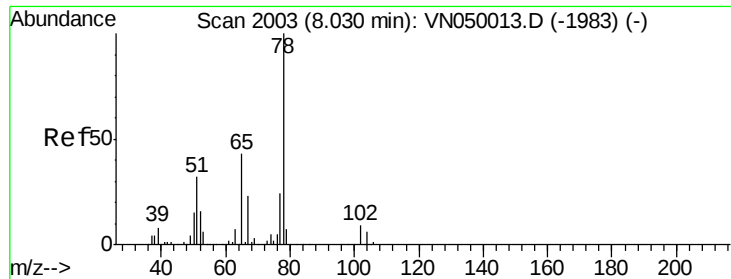
Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Tgt Ion:	97	Resp:	251046
Ion Ratio	Lower	Upper	
97	100		
99	64.7	51.4	77.0
61	44.8	35.4	53.0





#33

1,2-Dichloroethane-d4

Concen: 20.16 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 65 Resp: 170240

Ion Ratio Lower Upper

65 100

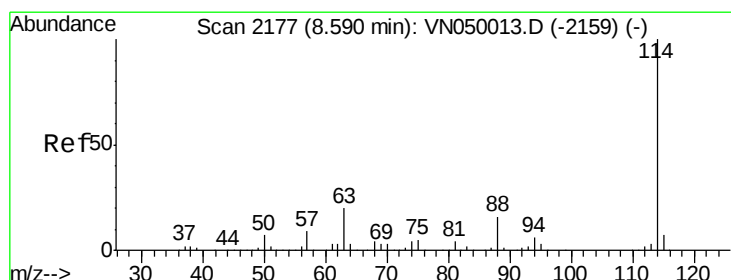
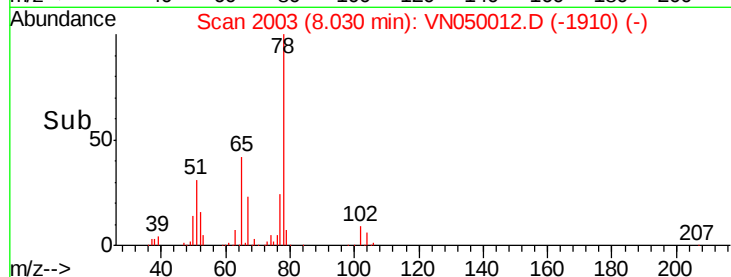
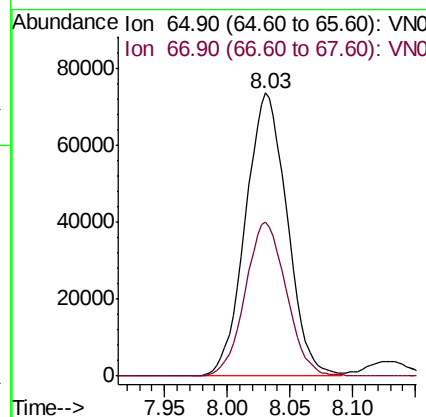
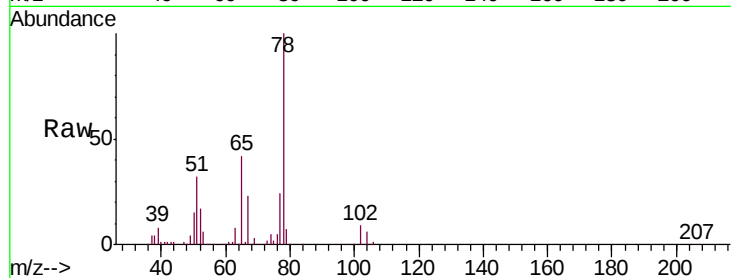
67 53.7 0.0 108.4

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#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

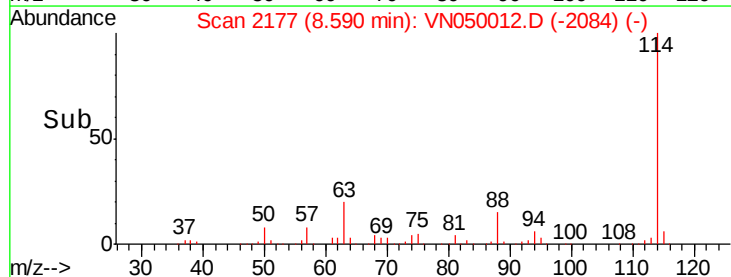
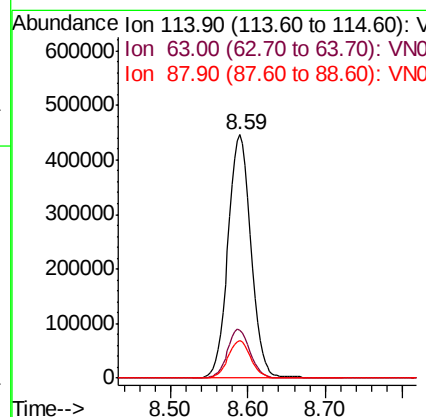
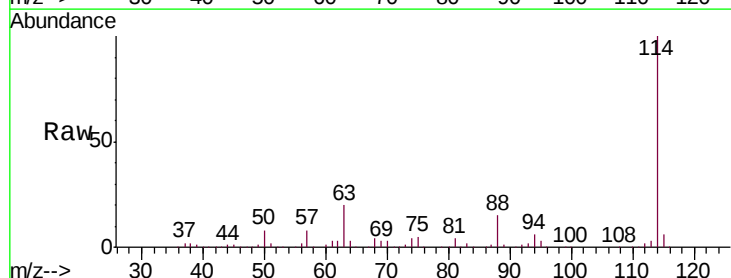
Tgt Ion: 114 Resp: 917762

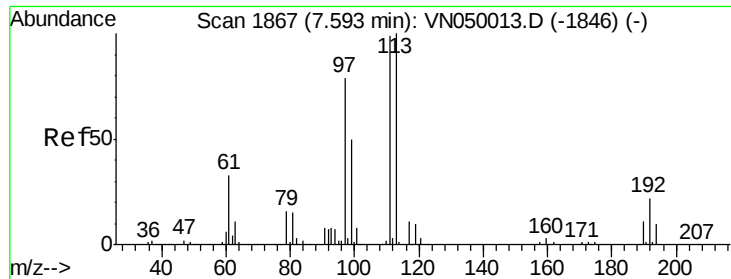
Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.0

88 15.3 0.0 31.2





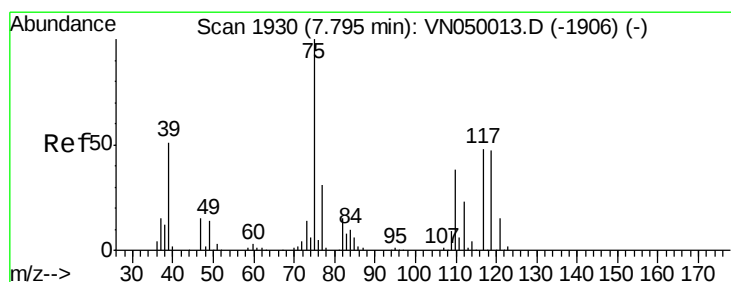
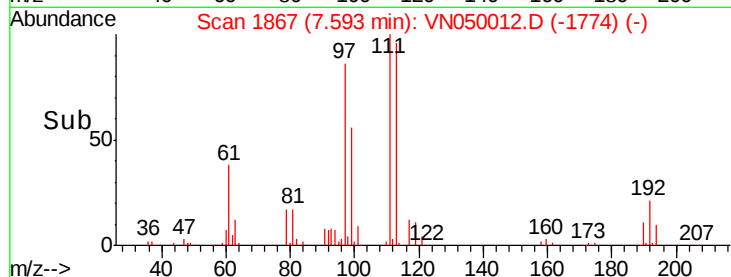
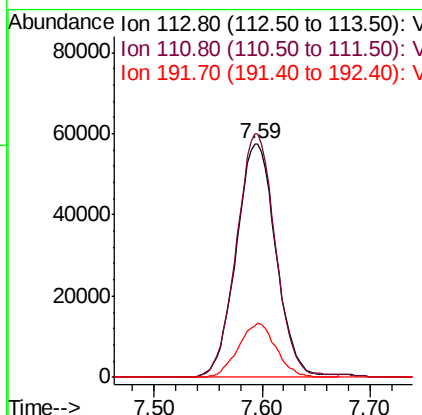
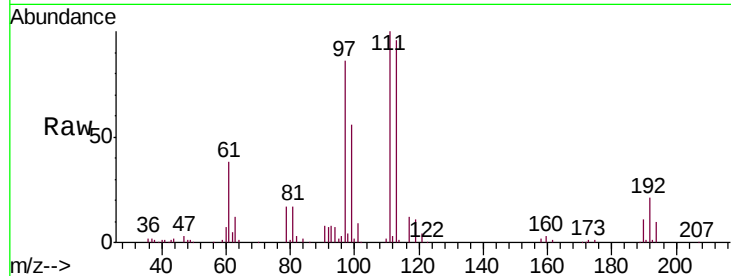
#35
Dibromofluoromethane
Concen: 19.12 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.7	121.1
192	22.0	17.8	26.6

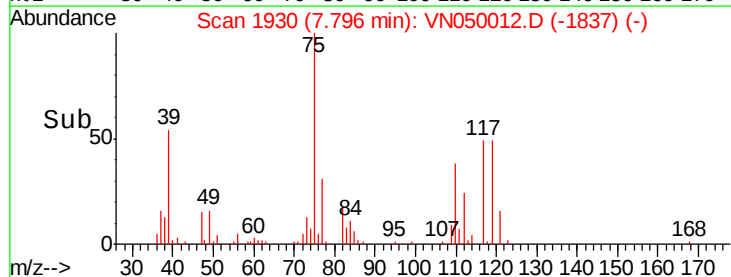
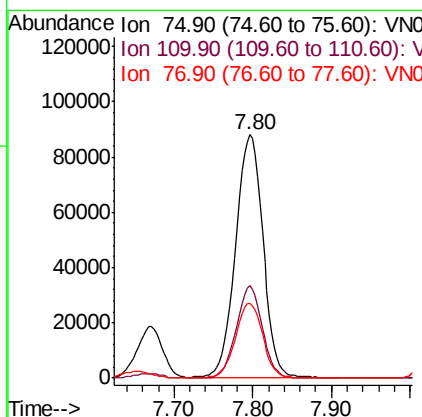
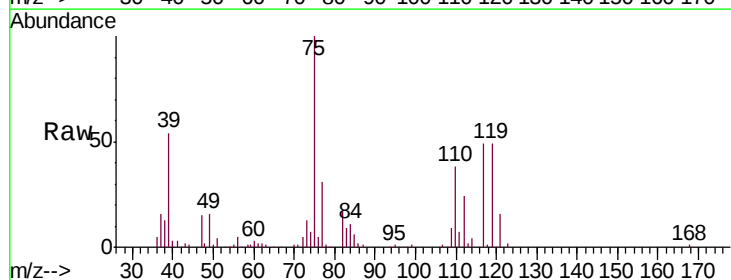
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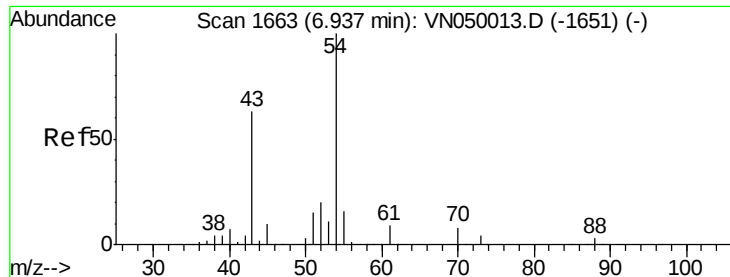
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#36
1,1-Dichloropropene
Concen: 21.09 ug/l
RT: 7.80 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.5	18.4	55.2
77	30.6	25.3	37.9





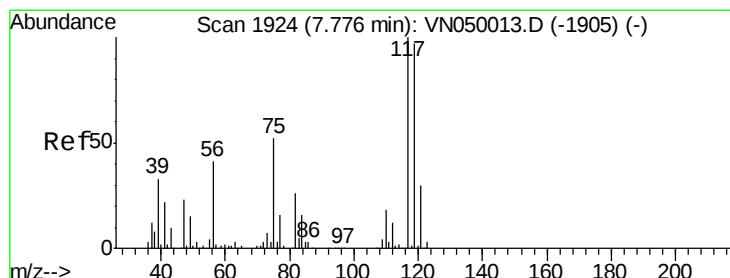
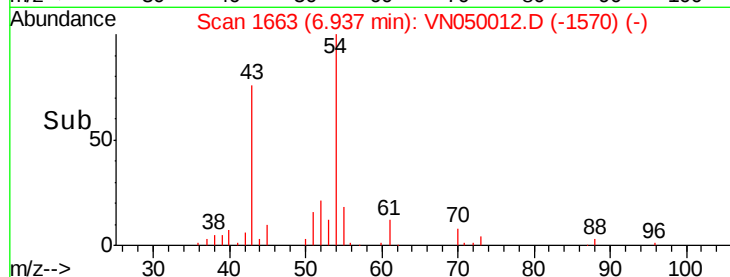
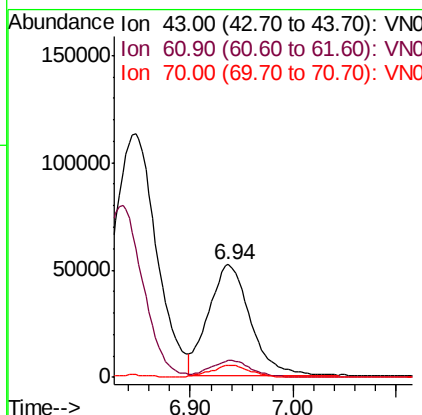
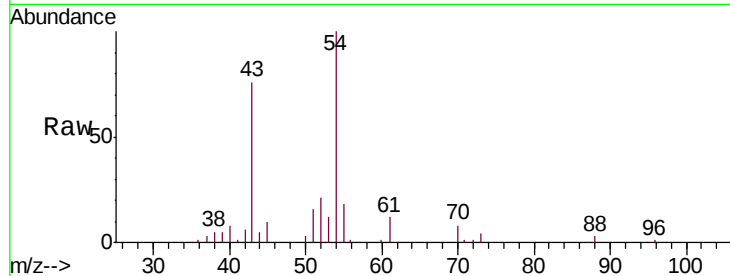
#37
Ethyl Acetate
Concen: 20.83 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.8	17.8
70	10.4	8.4	12.6

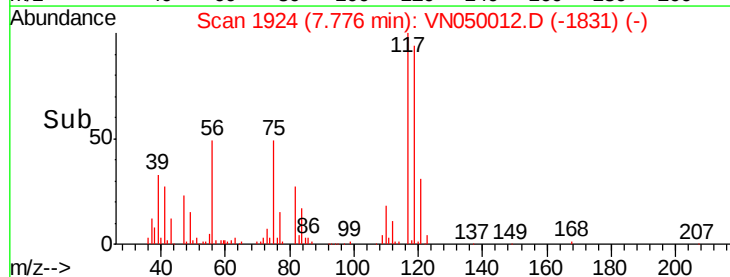
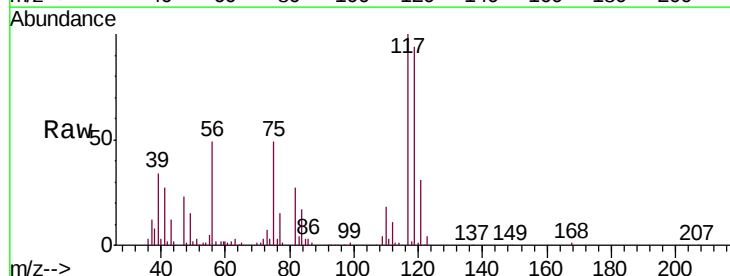
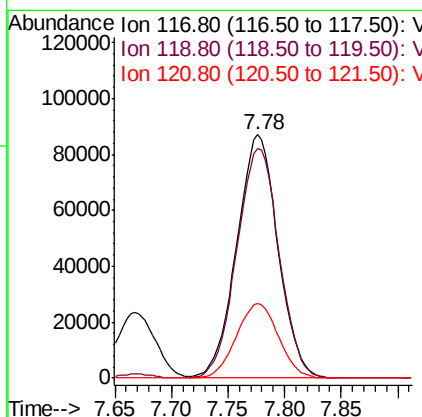
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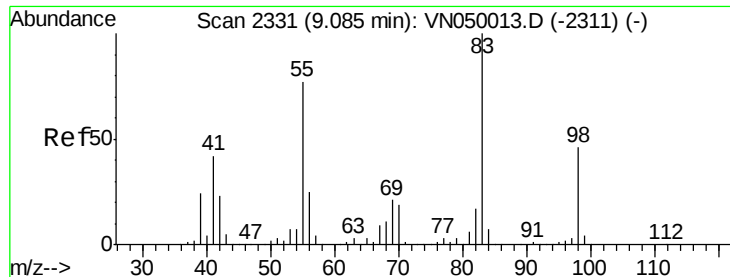
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#38
Carbon Tetrachloride
Concen: 20.00 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.2	77.4	116.0
121	30.9	23.9	35.9





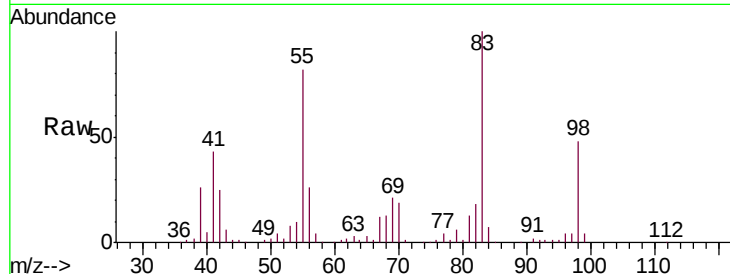
#39
Methvlcvclohexane
Concen: 19.62 ug/l
RT: 9.09 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.5	61.8	92.8
98	47.8	36.5	54.7

Manual Integrations
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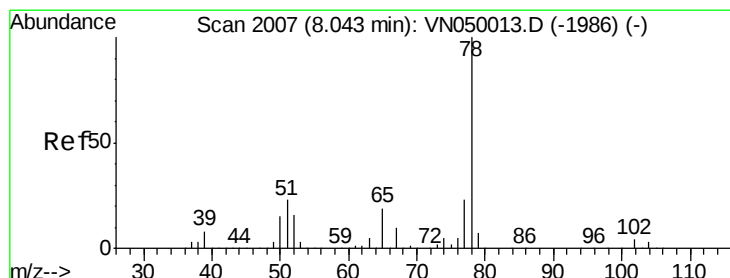
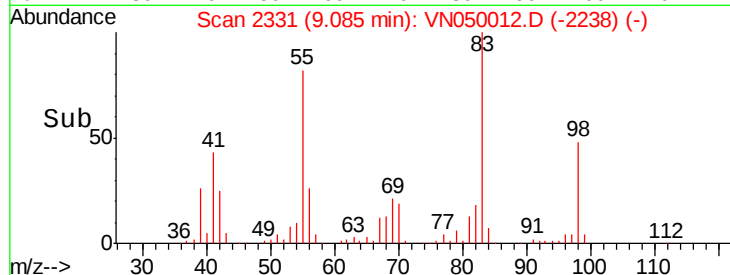
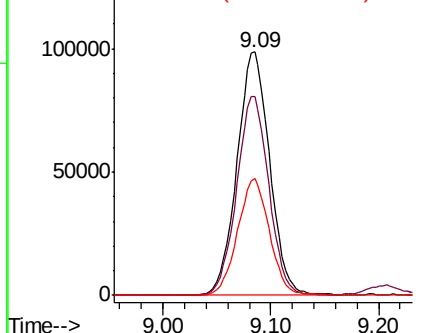


Abundance

Ion 83.00 (82.70 to 83.70): VN0

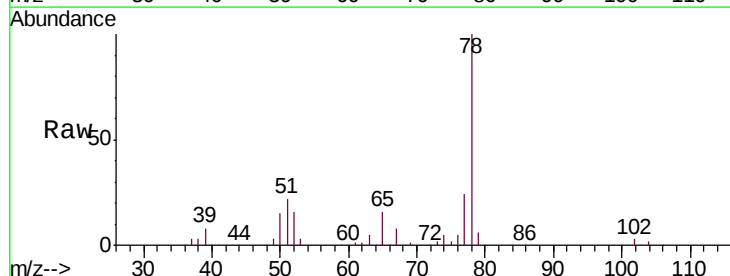
Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#40
Benzene
Concen: 20.66 ug/l
RT: 8.05 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

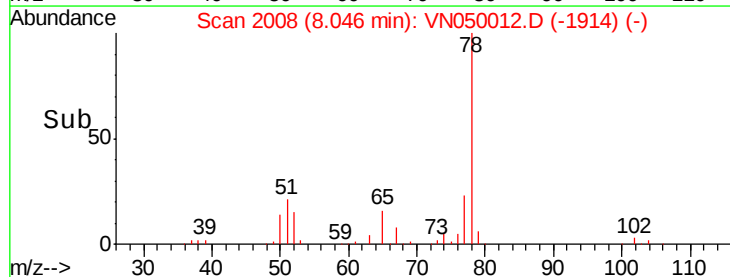
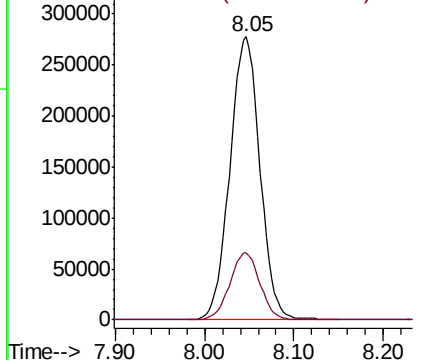
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.7	28.1

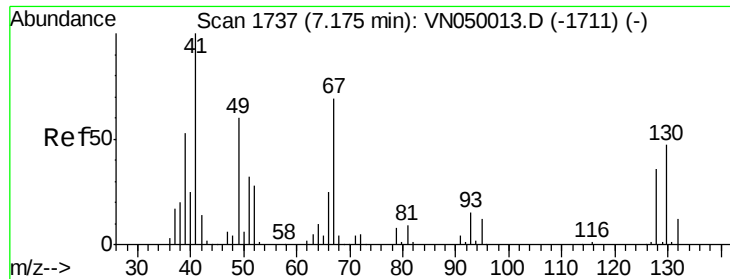


Abundance

Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





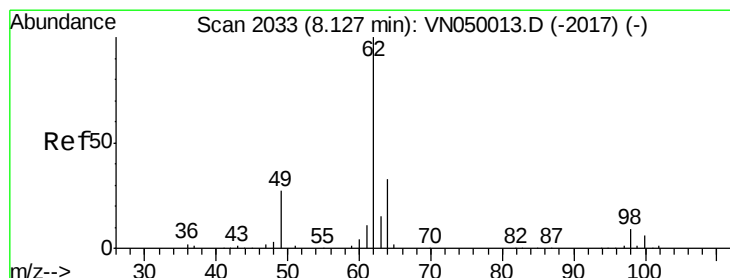
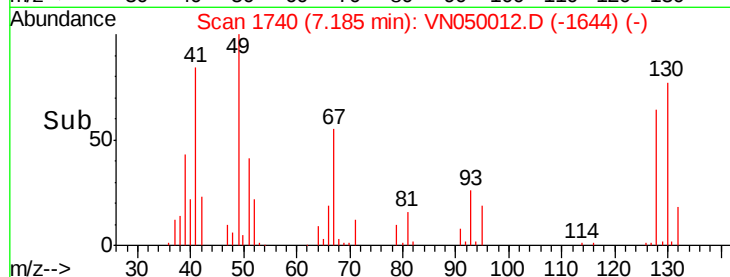
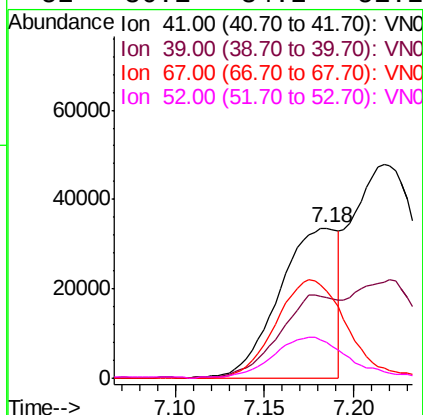
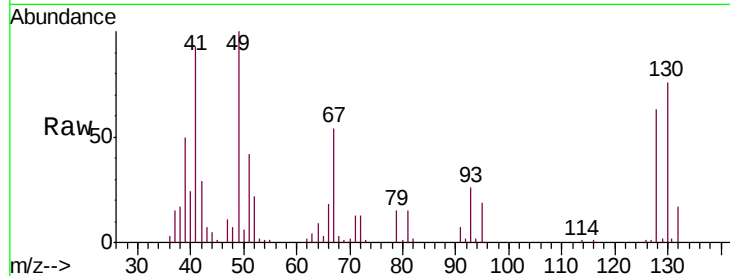
#41
Methacrylonitrile
Concen: 22.28 ug/l
RT: 7.18 min Scan# 1740
Delta R.T. 0.01 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	53.9	55.8	83.6#
67	80.5	84.3	126.5#
52	36.1	34.2	51.2

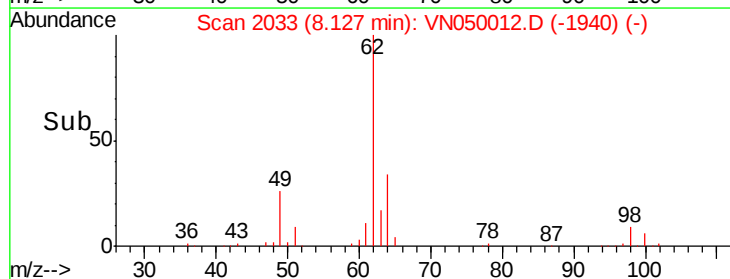
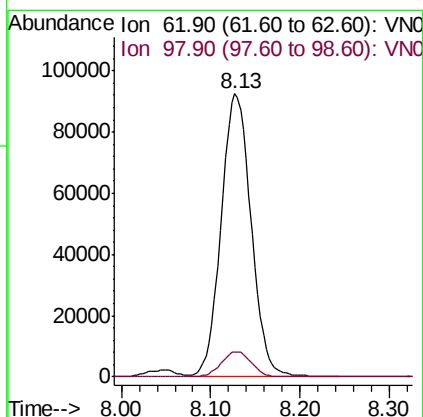
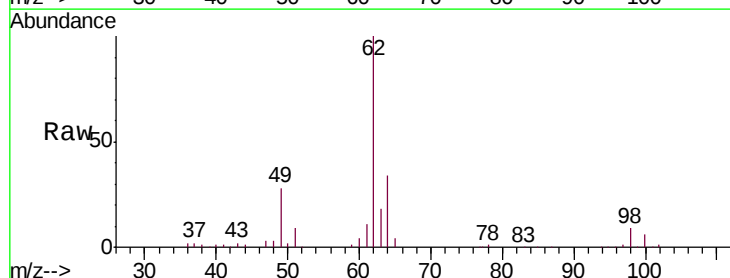
Manual Integrations
APPROVED

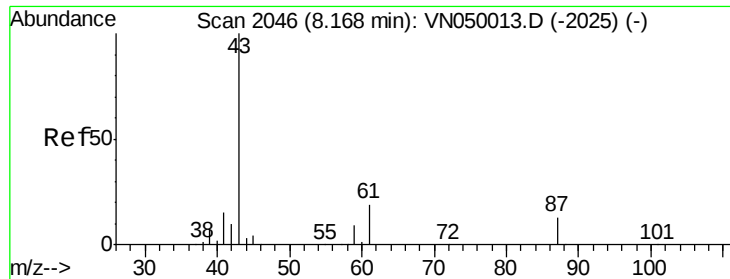
MMDadoda
7/26/2018 1:50:47 PM



#42
1,2-Dichloroethane
Concen: 20.72 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.8





#43

Isopropyl Acetate

Concen: 22.62 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

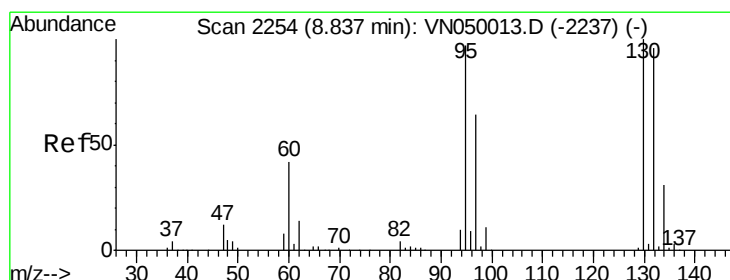
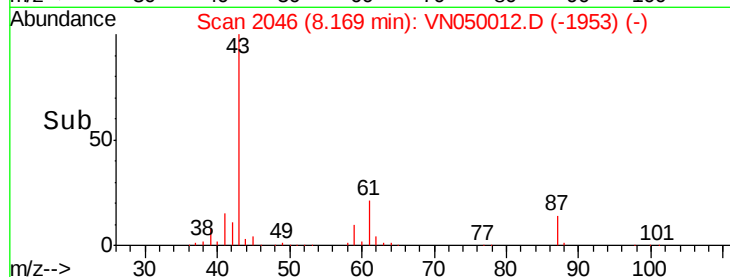
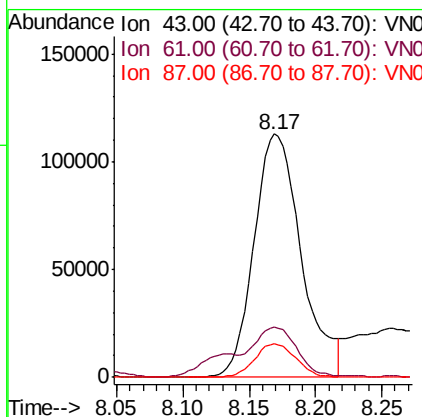
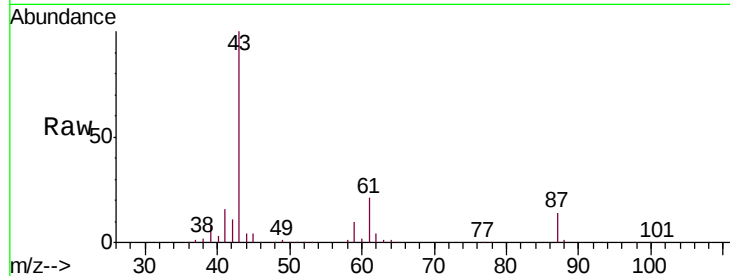
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	279492
Ion	Ratio	Lower	Upper
43	100		
61	18.8	15.8	23.6
87	12.2	10.3	15.5

Manual Integrations
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#44

Trichloroethene

Concen: 20.72 ug/l

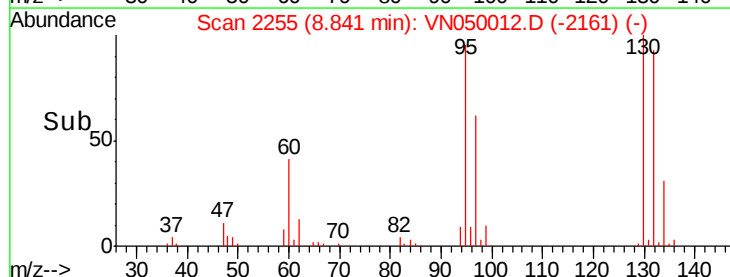
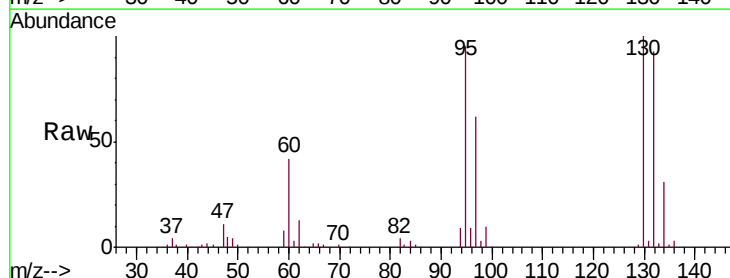
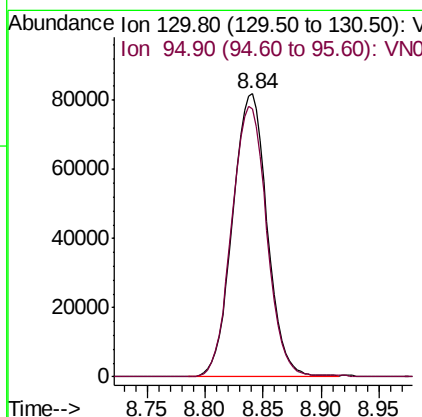
RT: 8.84 min Scan# 2255

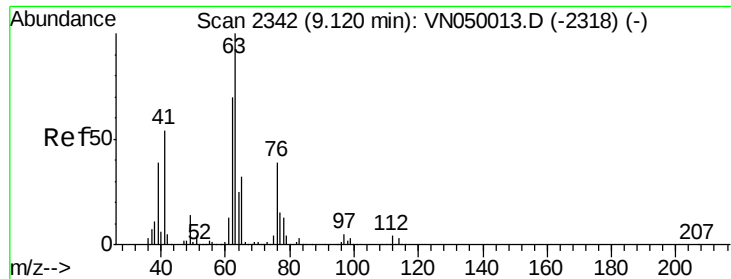
Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Tgt Ion:	130	Resp:	170065
Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	194.6





#45

1,2-Dichloropropane

Concen: 20.30 ug/l

RT: 9.12 min Scan# 2343

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 170940

Ion Ratio Lower Upper

63 100

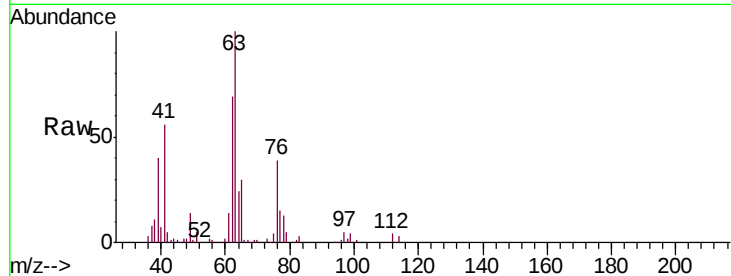
65 30.4 25.5 38.3

Manual Integrations

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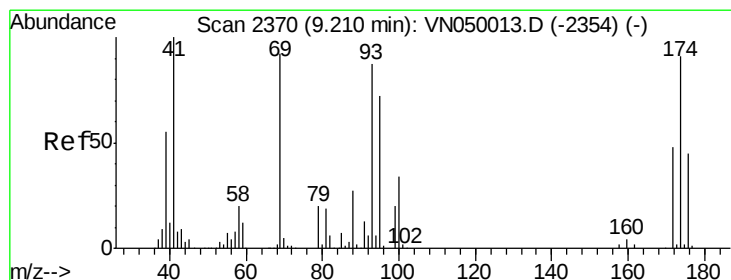
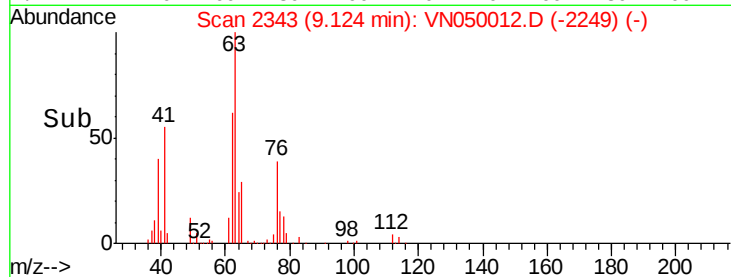
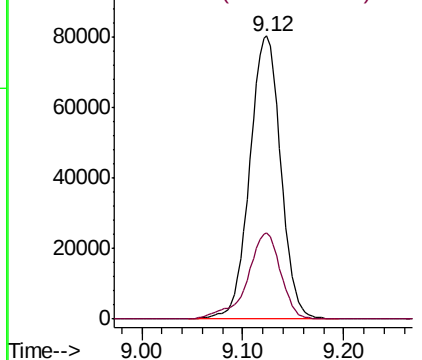
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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 20.28 ug/l

RT: 9.21 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

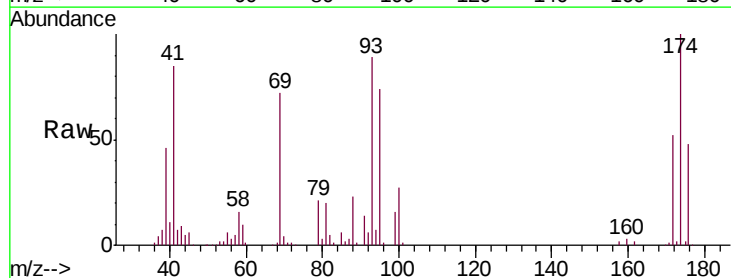
Tgt Ion: 93 Resp: 105928

Ion Ratio Lower Upper

93 100

95 83.1 66.6 100.0

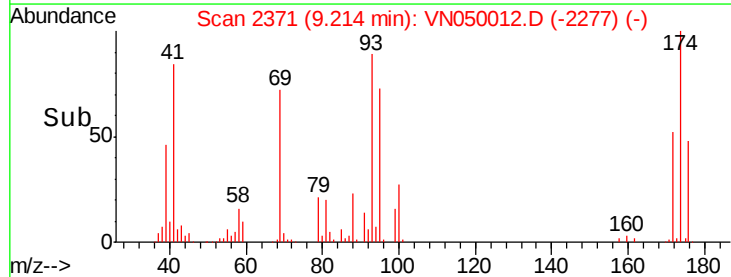
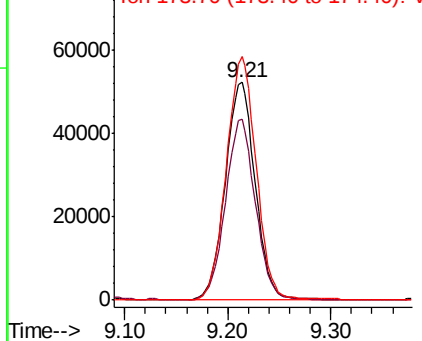
174 111.4 87.1 130.7

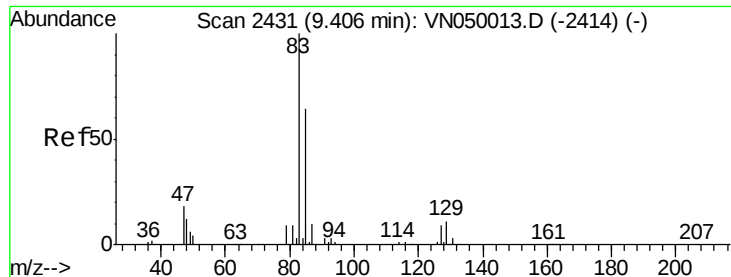


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 20.14 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

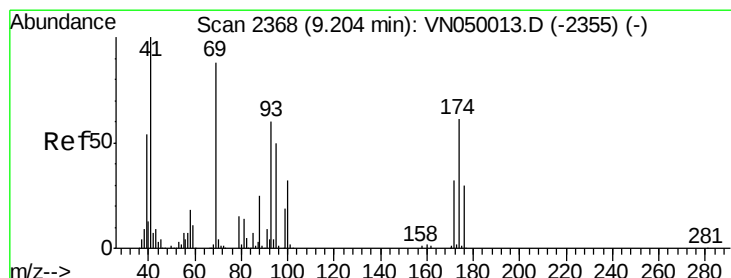
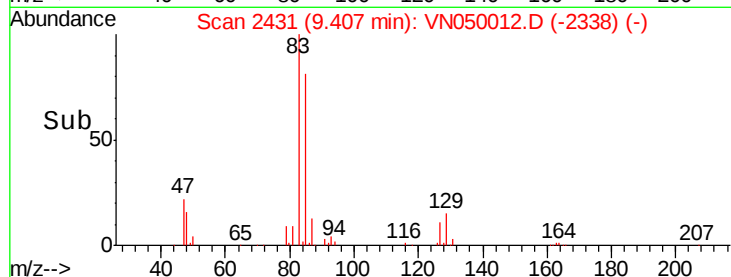
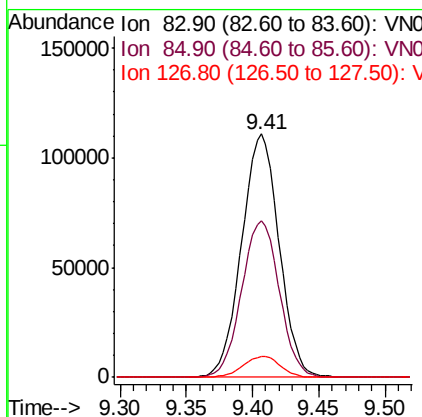
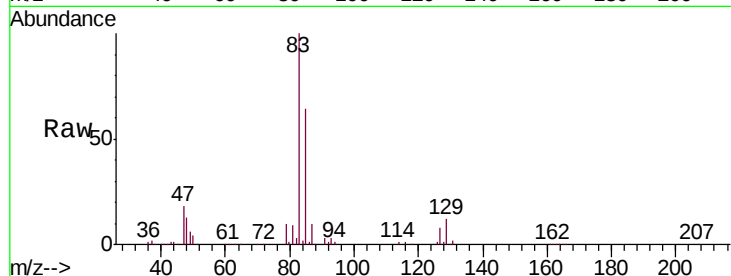
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	217410
Ion Ratio	Lower	Upper	
83	100		
85	64.1	51.1	76.7
127	8.4	7.0	10.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.56 ug/l

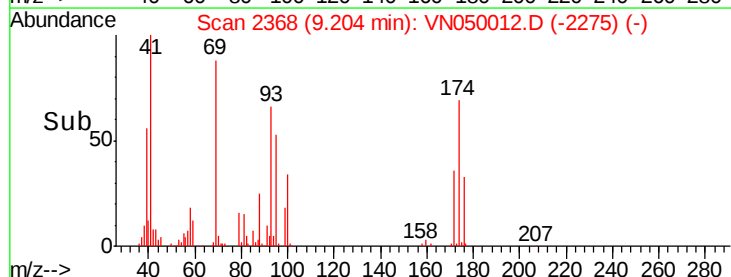
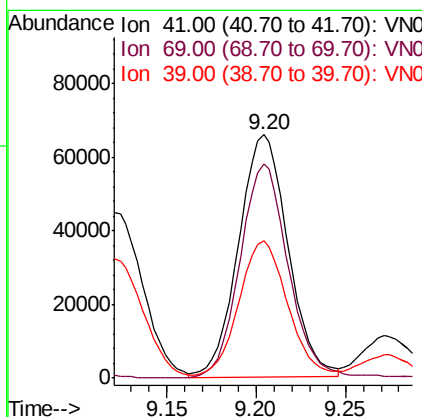
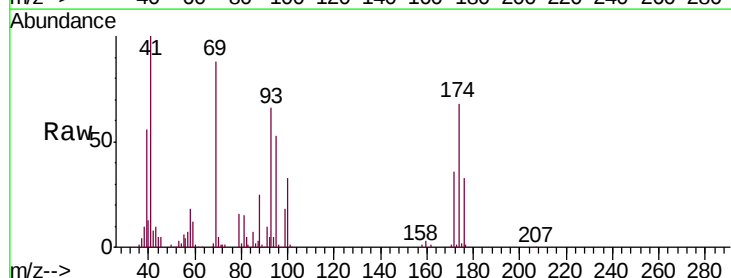
RT: 9.20 min Scan# 2368

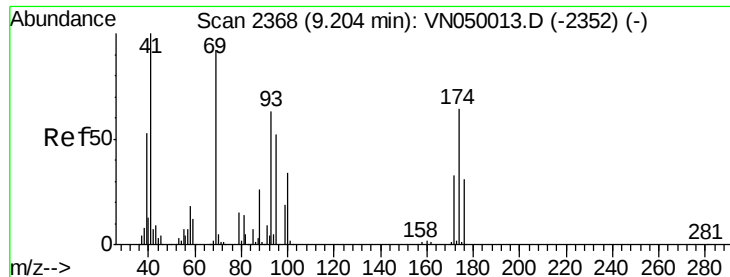
Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Tgt Ion:	41	Resp:	127503
Ion Ratio	Lower	Upper	
41	100		
69	86.3	70.6	105.8
39	55.9	43.9	65.9





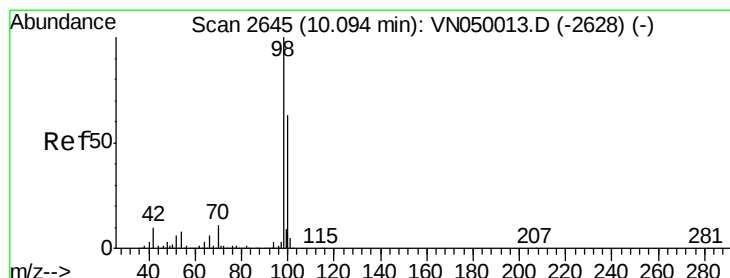
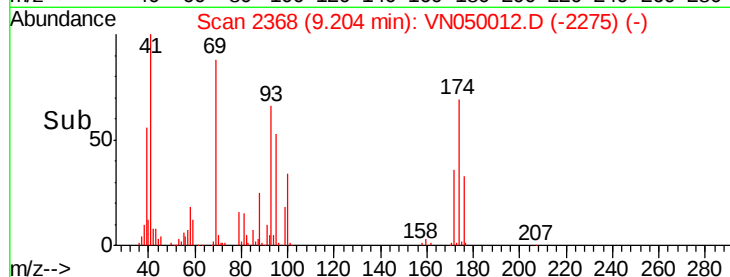
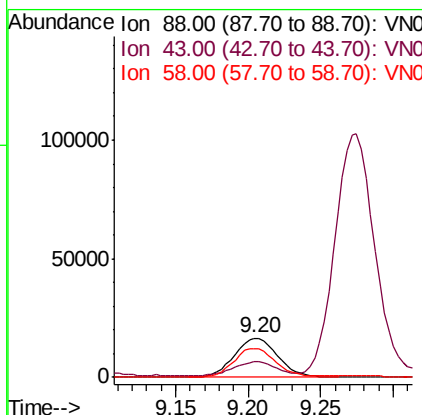
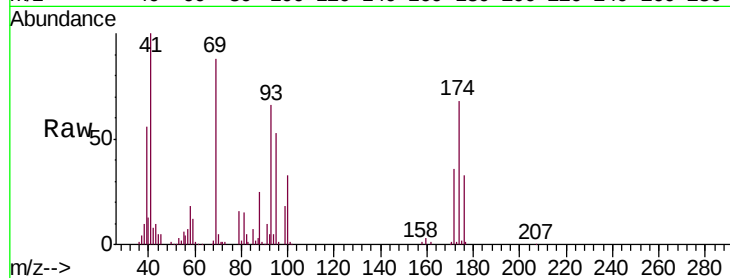
#49
1,4-Dioxane
Concen: 400.79 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.7	26.9	40.3
58	72.0	57.3	85.9

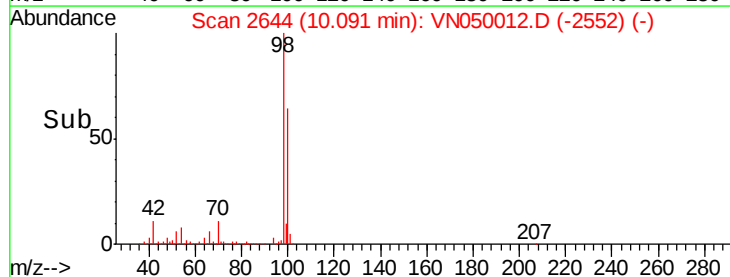
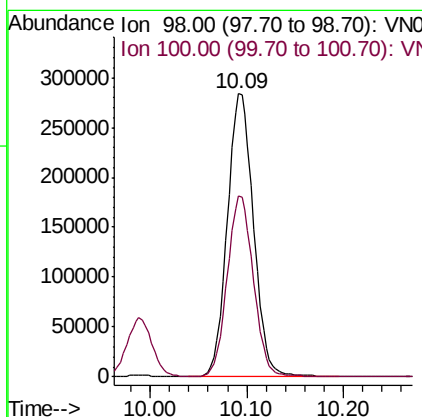
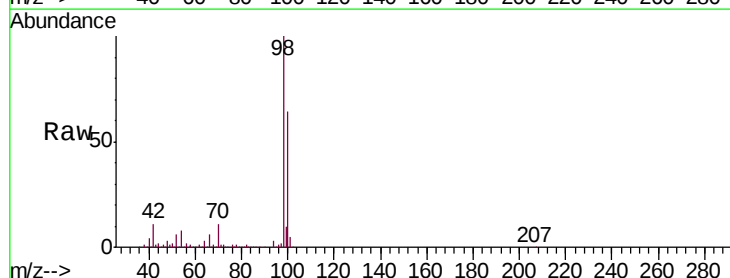
Manual Integrations
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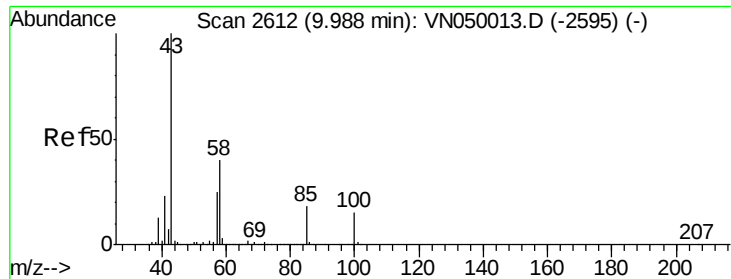
MMDadoda
7/26/2018 1:50:47 PM



#50
Toluene-d8
Concen: 19.08 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.6	50.7	76.1





#51

4-Methyl-2-Pentanone

Concen: 107.68 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 740433

Ion Ratio Lower Upper

43 100

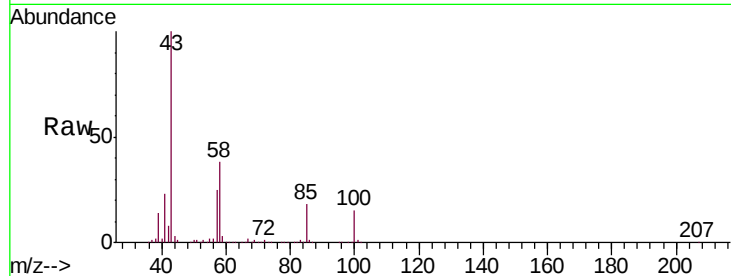
58 38.8 31.9 47.9

Manual Integrations

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MMDadoda

7/26/2018 1:50:47 PM



Abundance Ion 43.00 (42.70 to 43.70): VN050013.D (-2595) (-)

Ion 58.00 (57.70 to 58.70): VN050013.D (-2595) (-)

9.99

400000

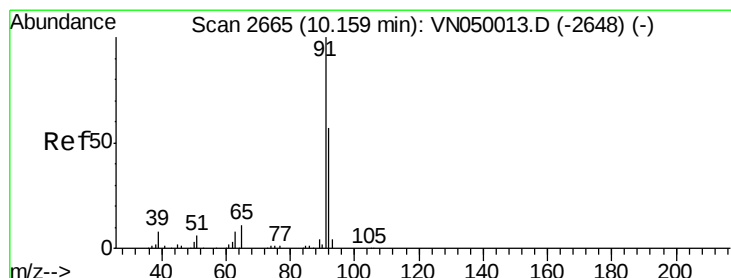
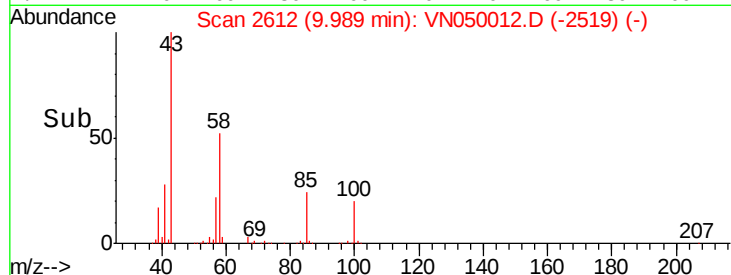
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 20.86 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VN050012.D

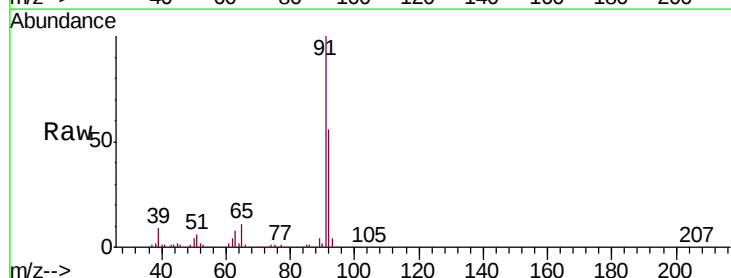
Acq: 23 Jul 2018 18:22

Tgt Ion: 92 Resp: 388667

Ion Ratio Lower Upper

92 100

91 175.7 140.3 210.5



Abundance Ion 92.00 (91.70 to 92.70): VN050013.D (-2648) (-)

Ion 91.00 (90.70 to 91.70): VN050013.D (-2648) (-)

10.16

400000

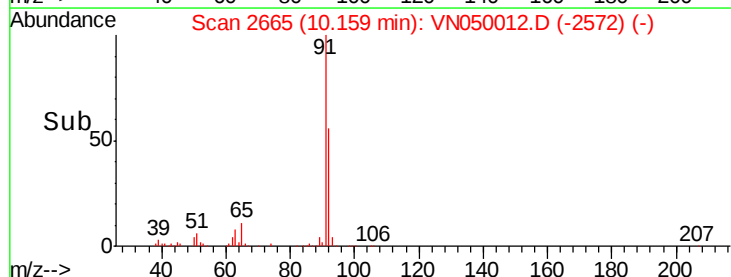
300000

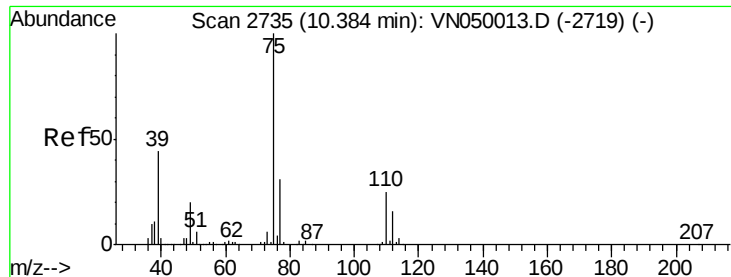
200000

100000

0

Time-->





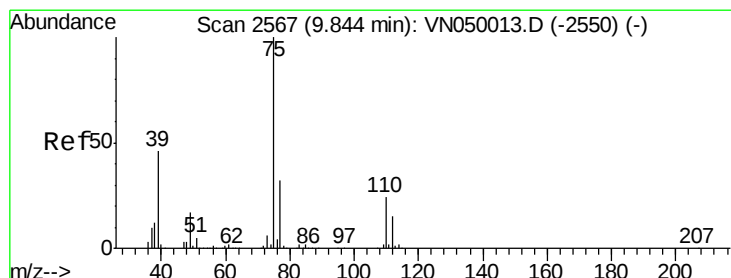
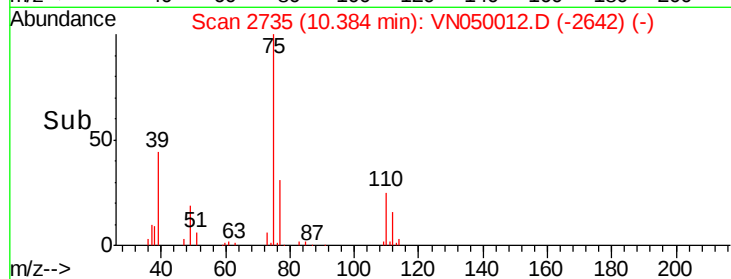
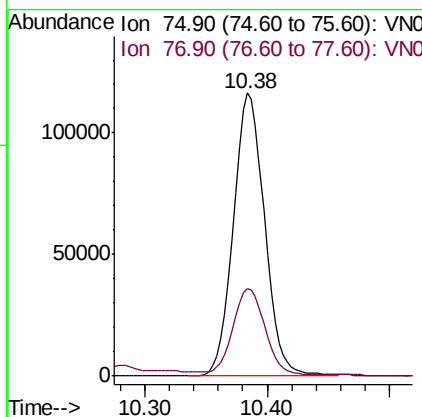
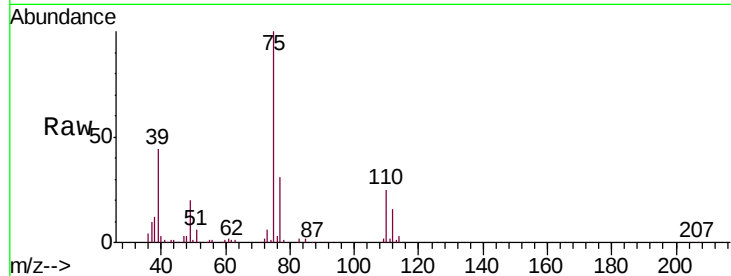
#53
t-1,3-Dichloropropene
Concen: 19.44 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.4	24.9	37.3

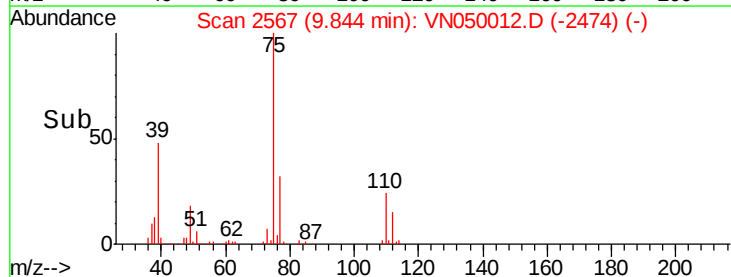
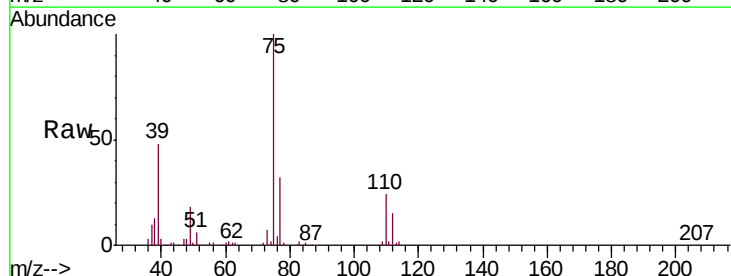
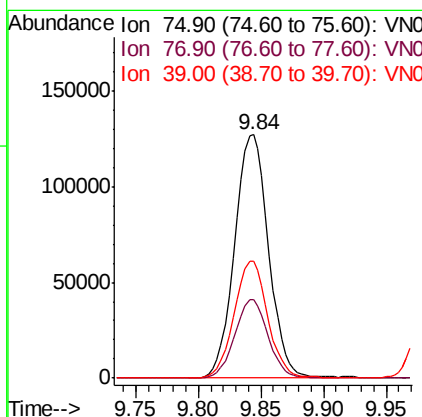
Manual Integrations
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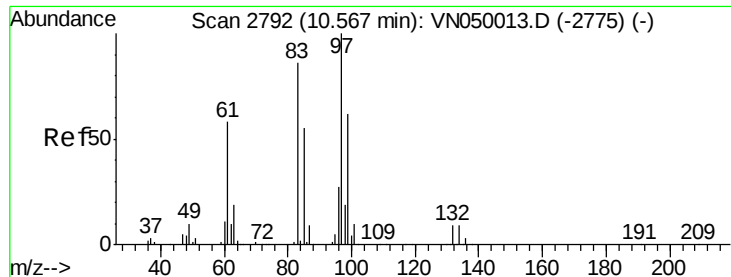
MMDadoda
7/26/2018 1:50:47 PM



#54
cis-1,3-Dichloropropene
Concen: 20.28 ug/l
RT: 9.84 min Scan# 2567
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.5	38.3
39	47.6	36.6	55.0





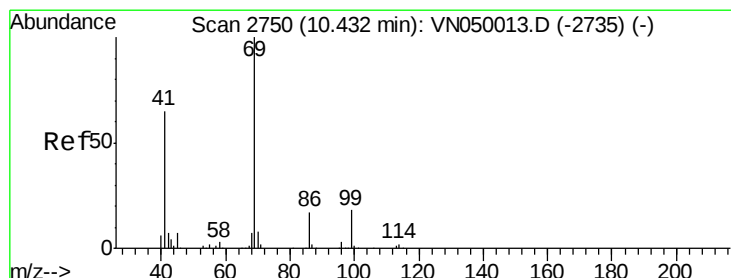
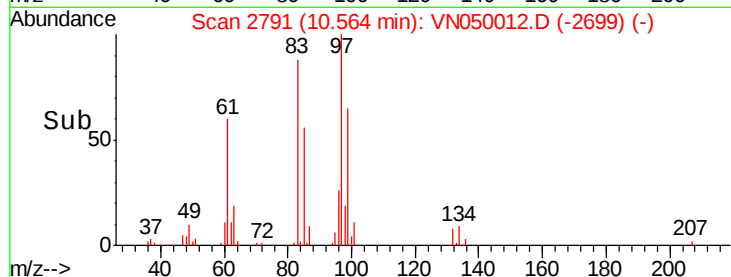
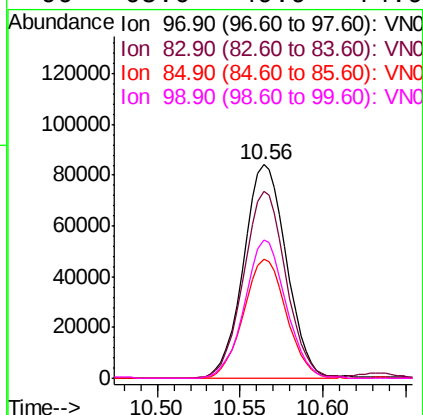
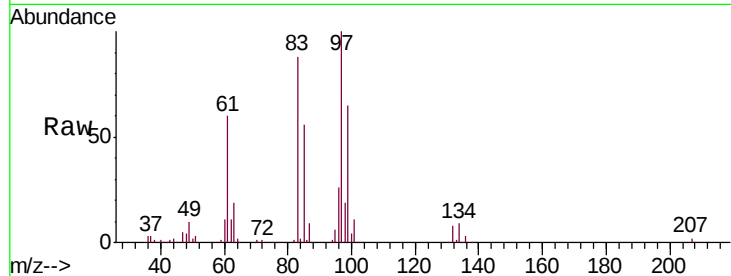
#55
 1,1,2-Trichloroethane
 Concen: 19.74 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.7	69.2	103.8
85	55.7	44.0	66.0
99	65.0	49.9	74.9

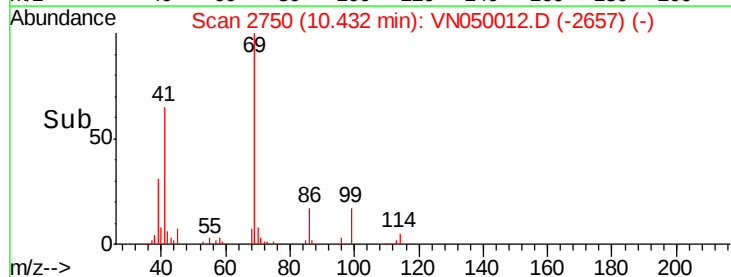
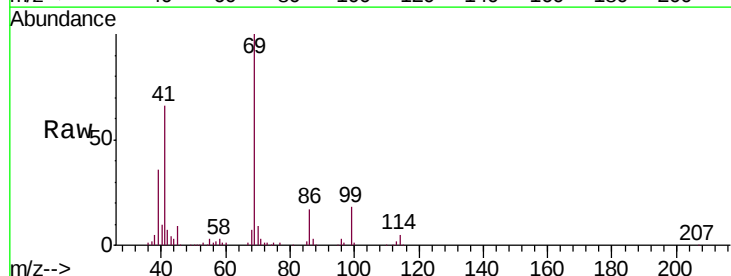
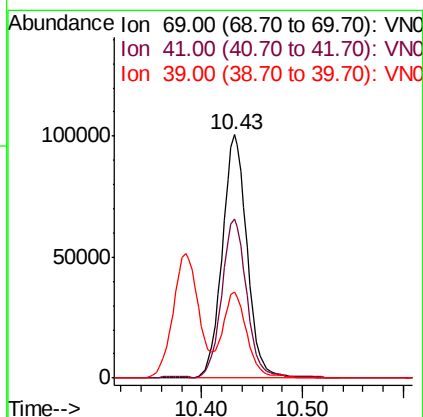
Manual Integrations
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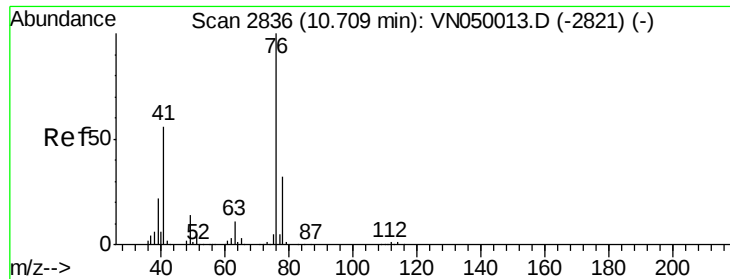
MMDadoda
 7/26/2018 1:50:47 PM



#56
 Ethyl methacrylate
 Concen: 19.41 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
69	100		
41	64.9	51.0	76.4
39	34.8	26.6	40.0





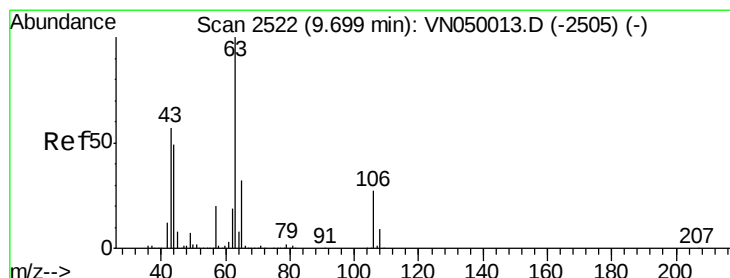
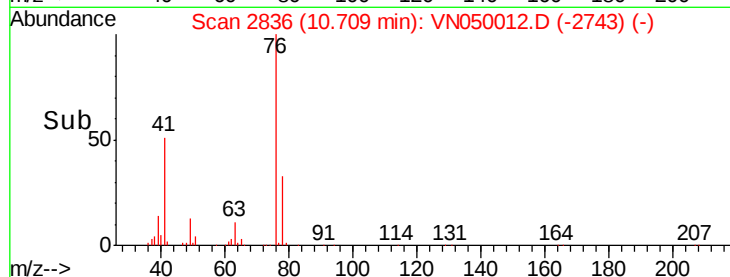
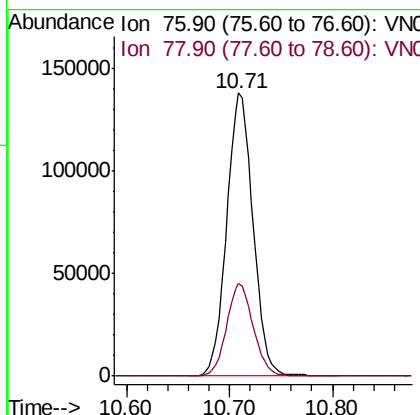
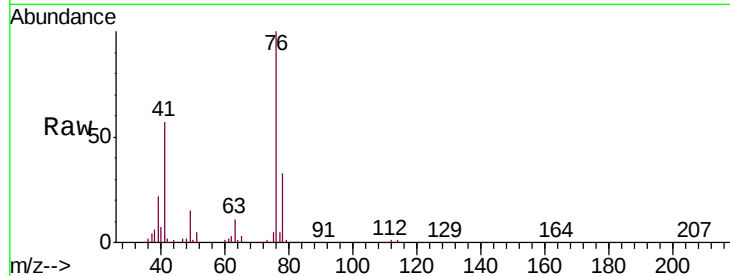
#57
 1,3-Dichloropropane
 Concen: 20.27 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 76 Resp: 245401
 Ion Ratio Lower Upper
 76 100
 78 33.2 25.7 38.5

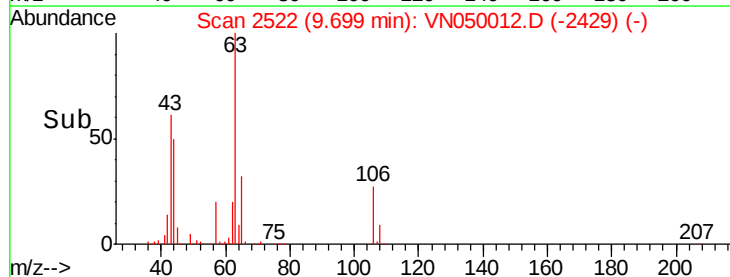
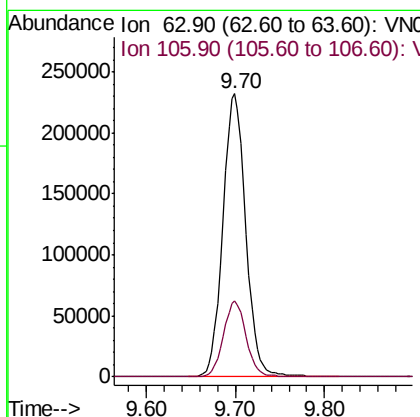
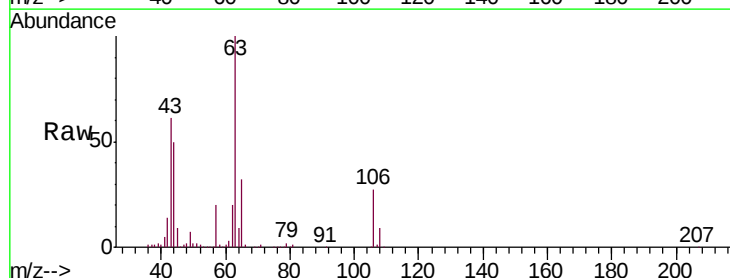
Manual Integrations
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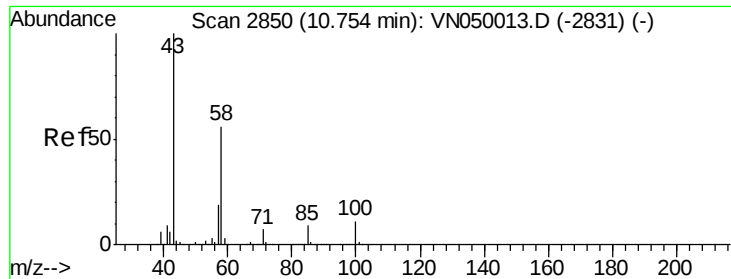
MMDadoda
 7/26/2018 1:50:47 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 101.36 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Tgt Ion: 63 Resp: 411913
 Ion Ratio Lower Upper
 63 100
 106 26.6 21.7 32.5





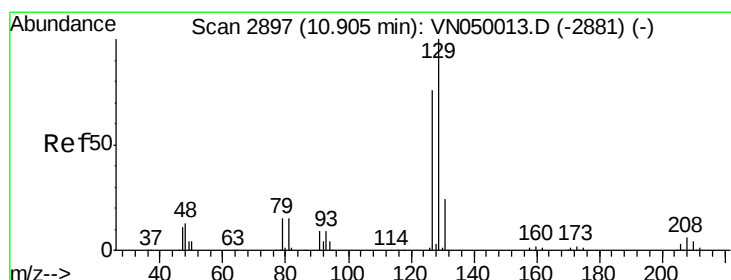
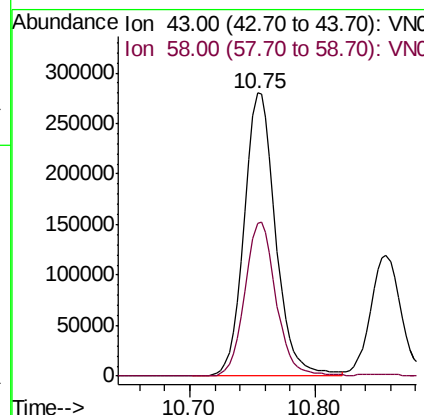
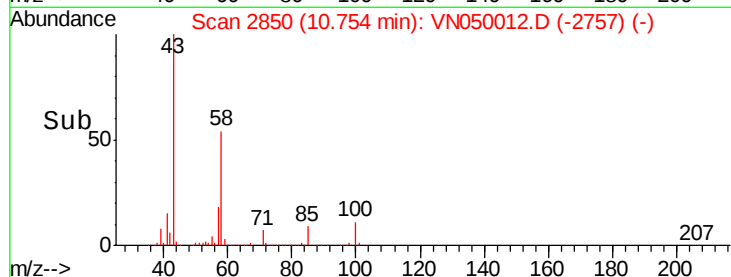
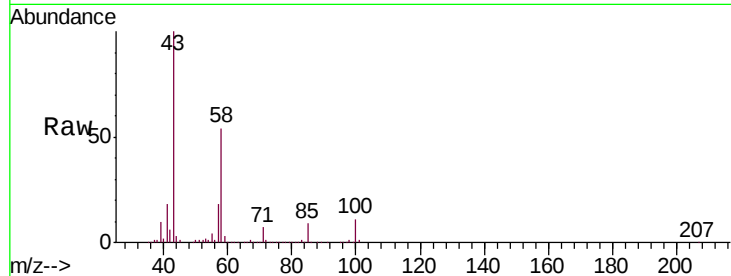
#59
2-Hexanone
Concen: 105.19 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 485157
Ion Ratio Lower Upper
43 100
58 54.2 27.6 82.7

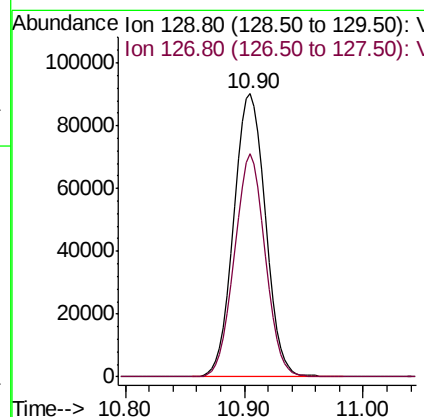
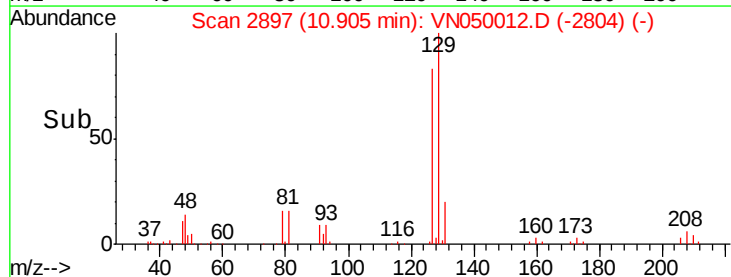
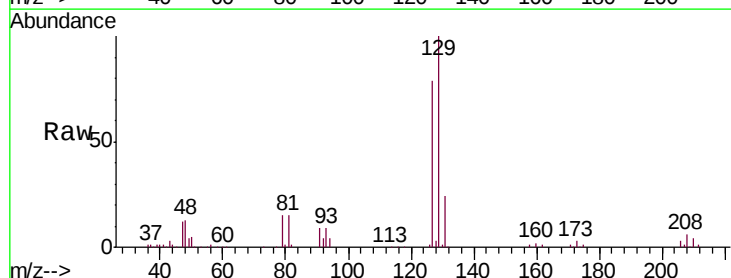
Manual Integrations
APPROVED

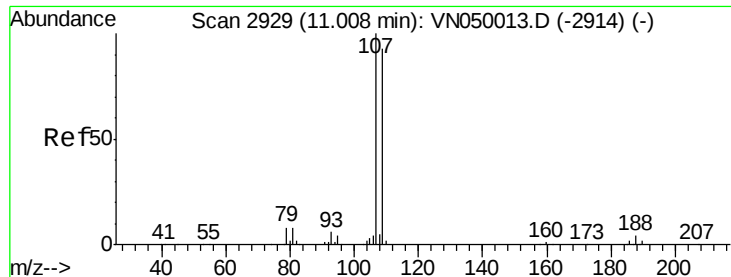
MMDadoda
7/26/2018 1:50:47 PM



#60
Dibromochloromethane
Concen: 19.85 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion: 129 Resp: 166938
Ion Ratio Lower Upper
129 100
127 76.3 38.0 113.9





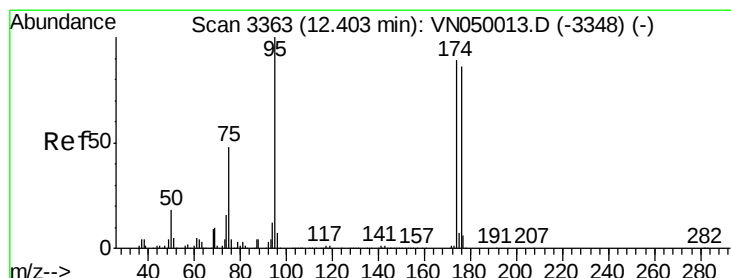
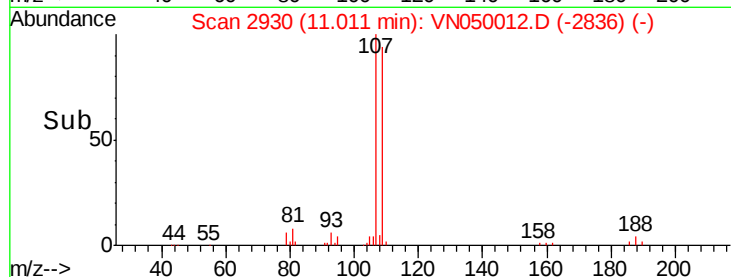
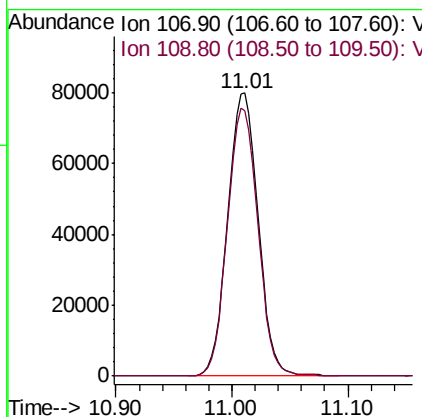
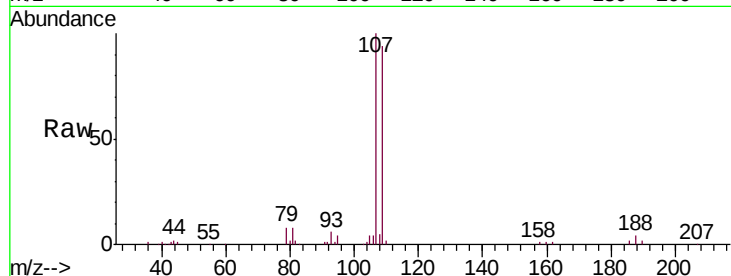
#61
 1,2-Dibromoethane
 Concen: 20.20 ug/l
 RT: 11.01 min Scan# 2930
 Delta R.T. 0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.9	74.6	112.0

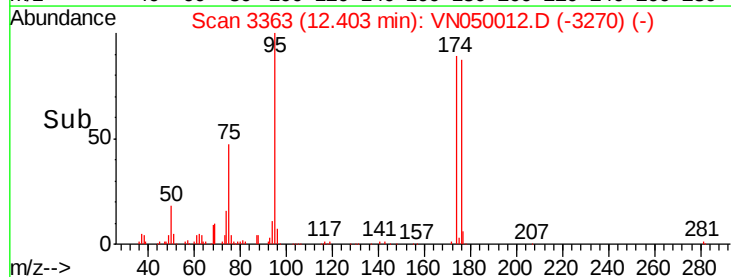
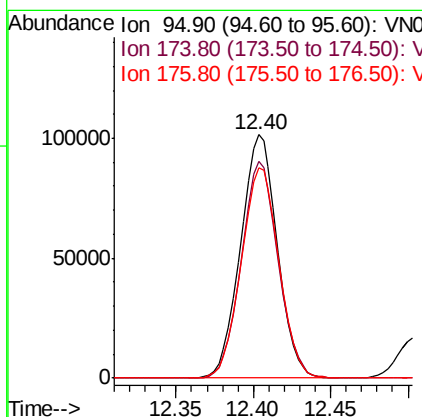
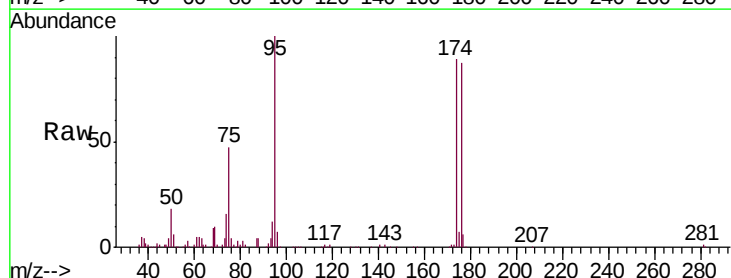
Manual Integrations
 APPROVED

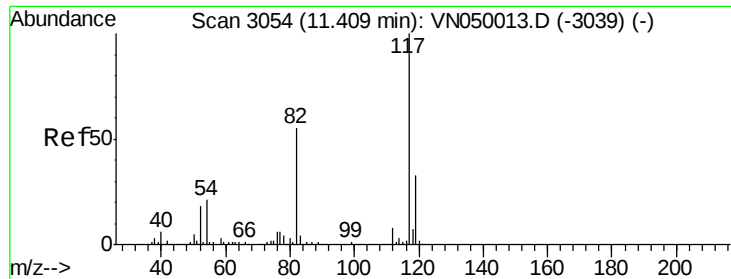
MMDadoda
 7/26/2018 1:50:47 PM



#62
 4-Bromofluorobenzene
 Concen: 17.49 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.3	0.0	178.2
176	88.6	0.0	173.4





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

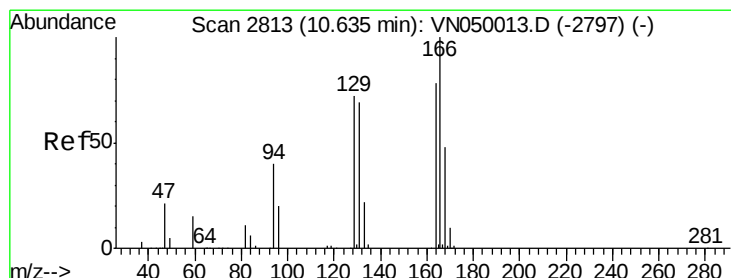
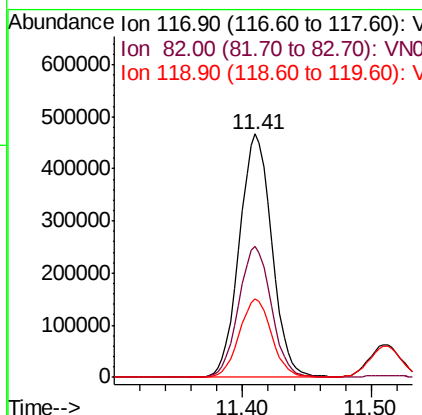
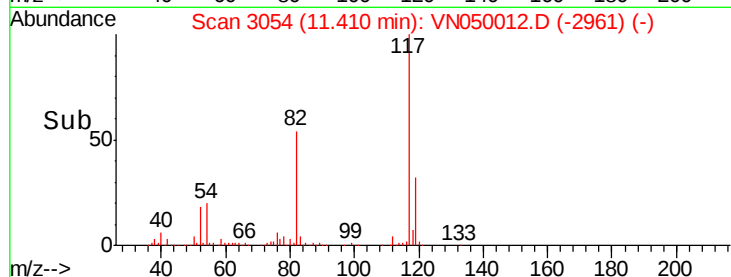
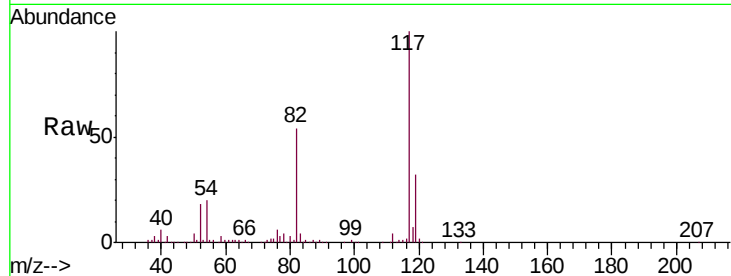
ClientSampleId :

VSTDIC020

Tot Ion:	117	Resp:	819871
Ion Ratio	Lower	Upper	
117	100		
82	53.7	43.7	65.5
119	32.0	26.1	39.1

Manual Integrations
APPROVED

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7/26/2018 1:50:47 PM



#64

Tetrachloroethene

Concen: 22.18 ug/l

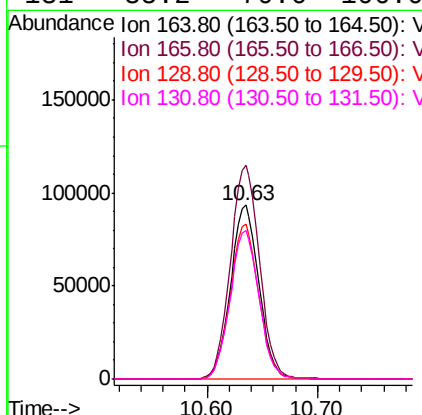
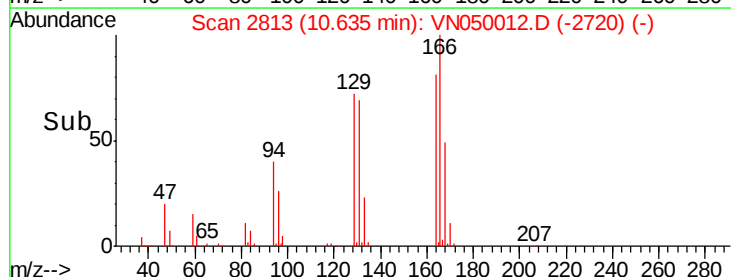
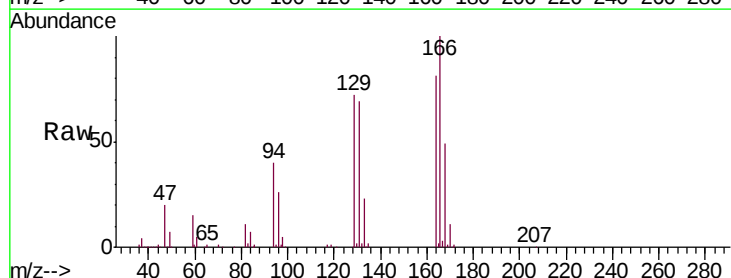
RT: 10.63 min Scan# 2813

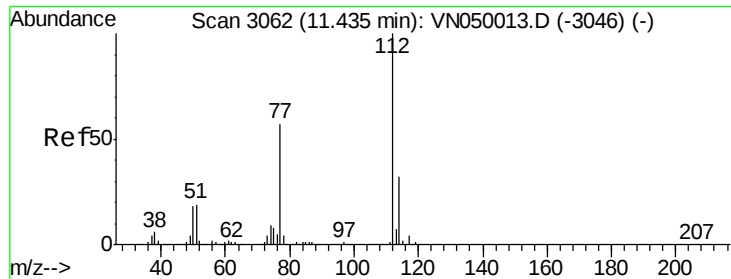
Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Tgt Ion:	164	Resp:	166393
Ion Ratio	Lower	Upper	
164	100		
166	123.0	102.1	153.1
129	88.9	73.2	109.8
131	85.2	70.6	106.0





#65

Chlorobenzene

Concen: 20.03 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:112 Resp: 414464

Ion Ratio Lower Upper

112 100

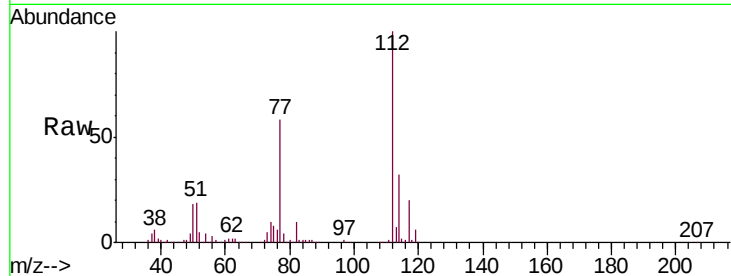
114 32.1 25.6 38.4

Manual Integrations

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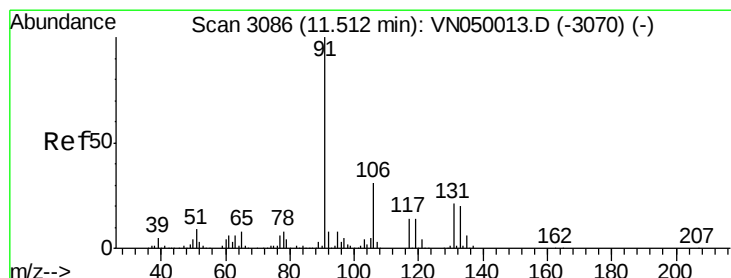
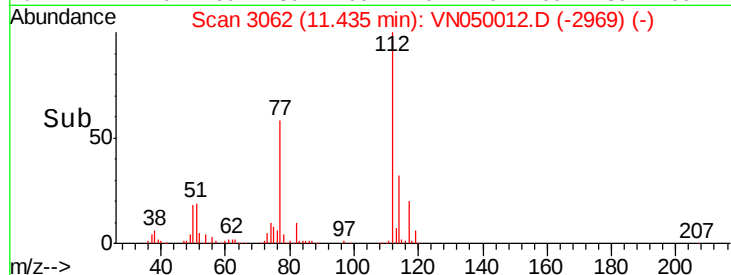
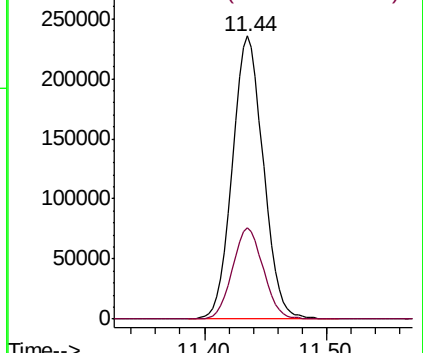
MMDadoda

7/26/2018 1:50:47 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 19.84 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

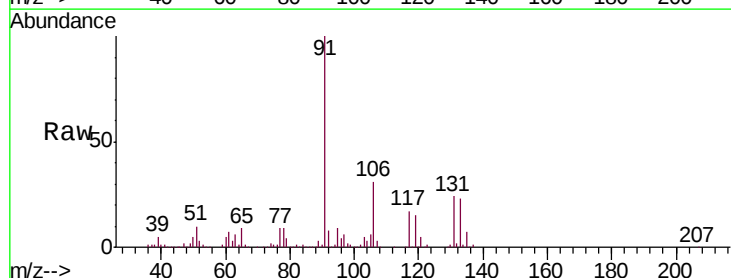
Tgt Ion:131 Resp: 158888

Ion Ratio Lower Upper

131 100

133 96.1 47.3 141.9

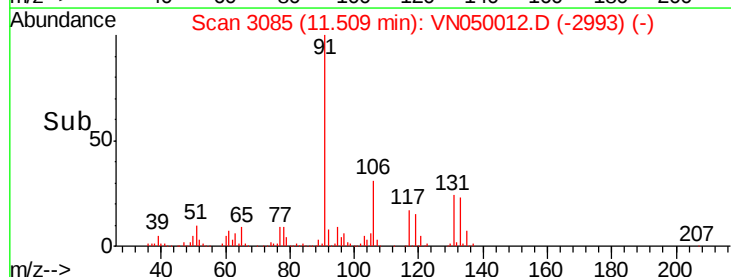
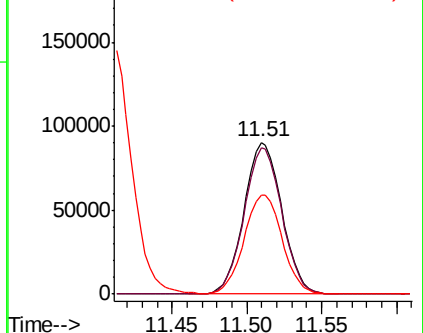
119 66.1 32.9 98.7

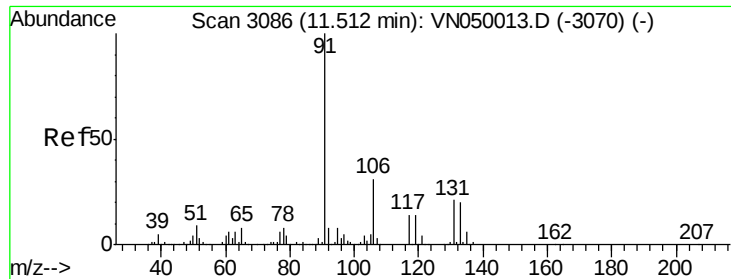


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





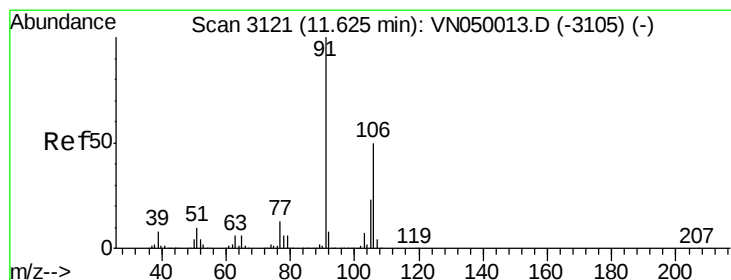
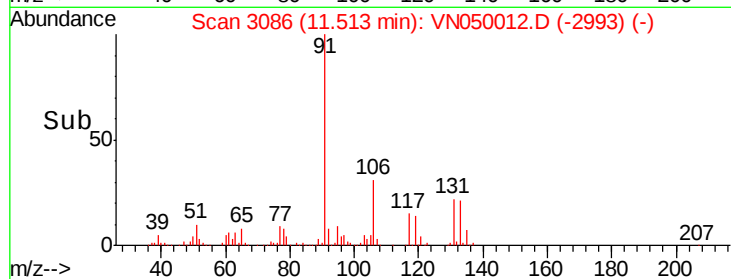
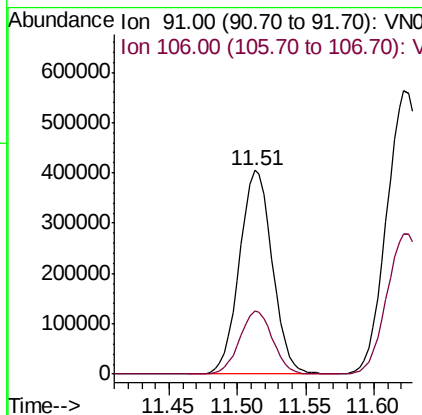
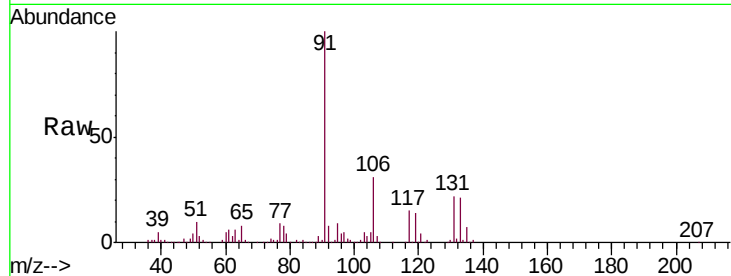
#67
Ethyl Benzene
Concen: 20.31 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 681368
Ion Ratio Lower Upper
91 100
106 30.7 25.0 37.4

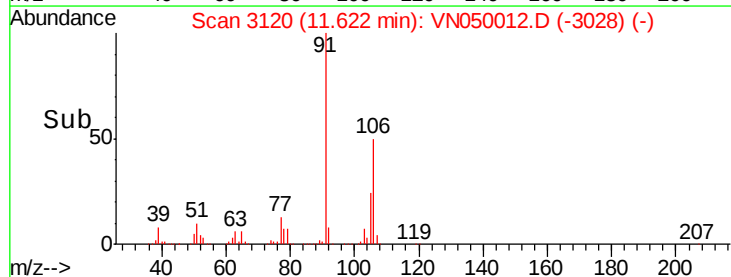
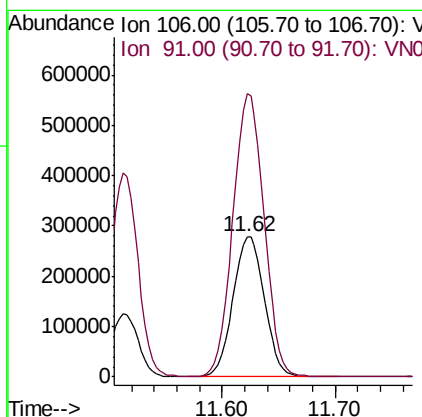
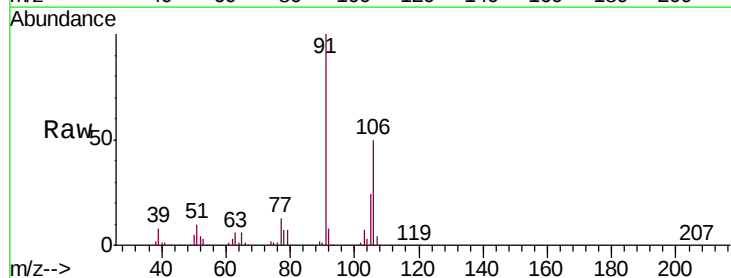
Manual Integrations
APPROVED

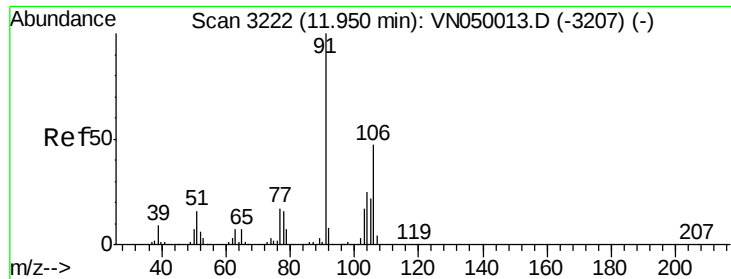
MMDadoda
7/26/2018 1:50:47 PM



#68
m/p-Xylenes
Concen: 42.43 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. -0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion: 106 Resp: 538229
Ion Ratio Lower Upper
106 100
91 200.9 162.2 243.2





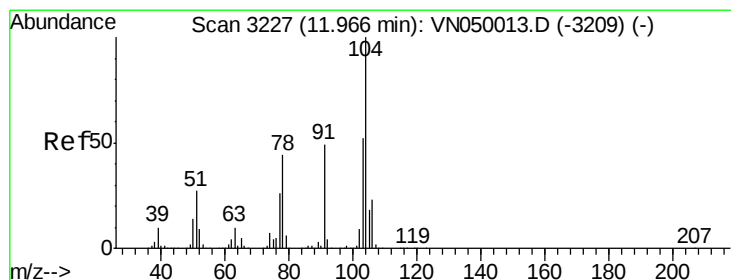
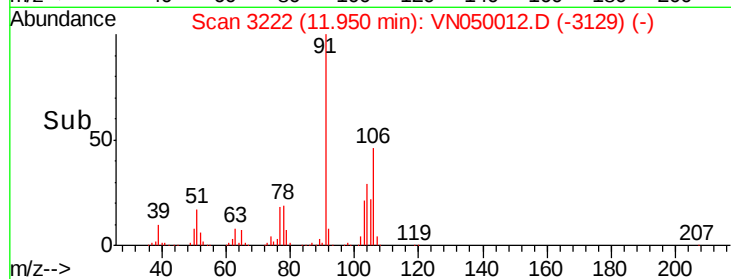
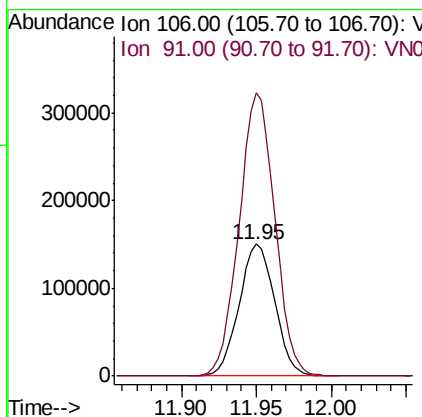
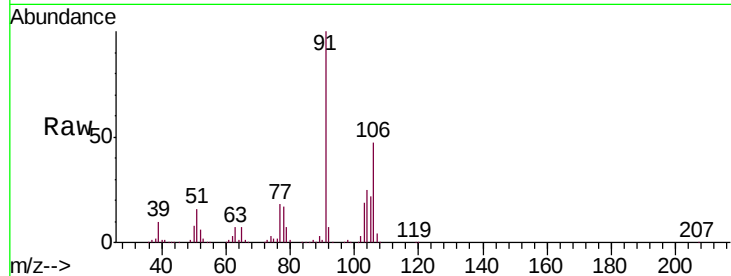
#69
o-Xylene
Concen: 20.52 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	249835		
91	91	215.4	107.7	323.1	

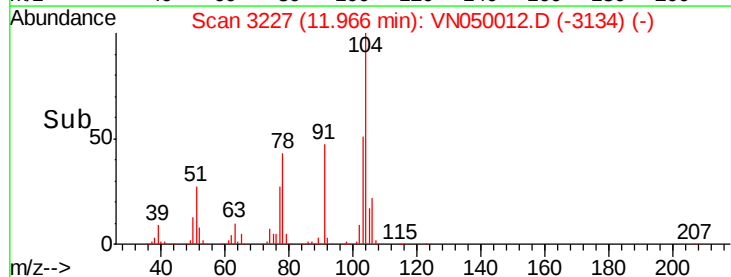
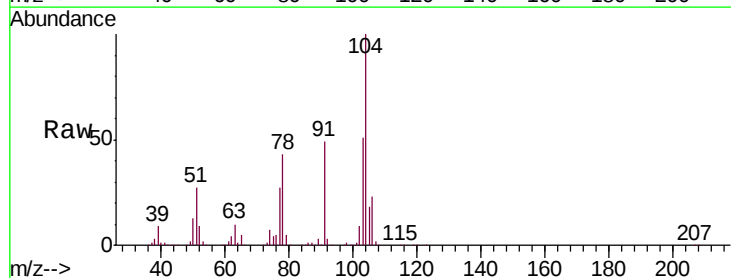
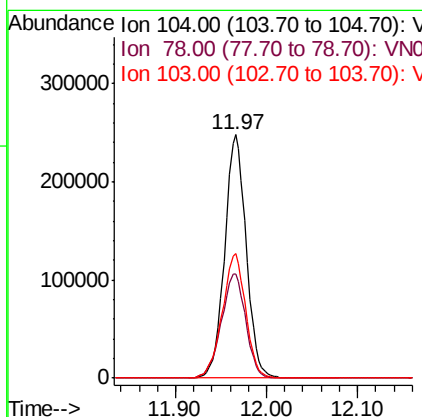
Manual Integrations
APPROVED

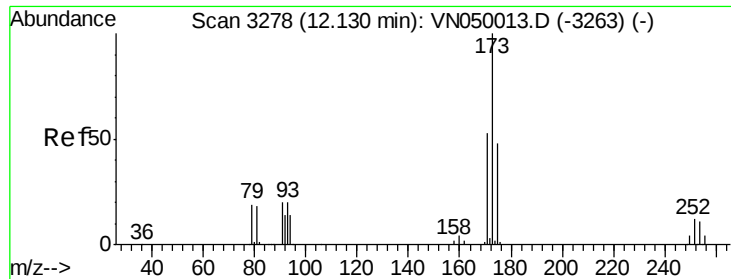
MMDadoda
7/26/2018 1:50:47 PM



#70
Styrene
Concen: 20.77 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	407938		
78	78	48.3	39.3	58.9	
103	103	55.6	45.0	67.6	





#71

Bromoform

Concen: 20.36 ug/l

RT: 12.13 min Scan# 3278

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 116212

Ion Ratio Lower Upper

173 100

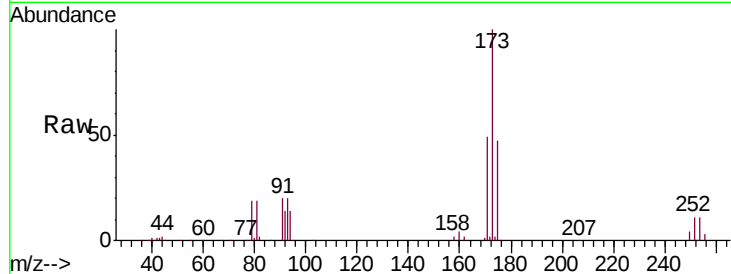
175 47.9 24.1 72.2

254 0.0 0.2 0.2#

Manual Integrations
APPROVED

MMDadoda

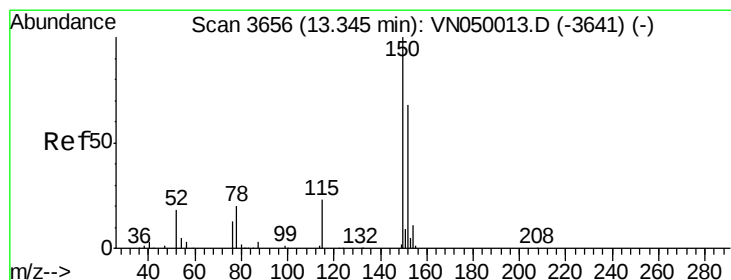
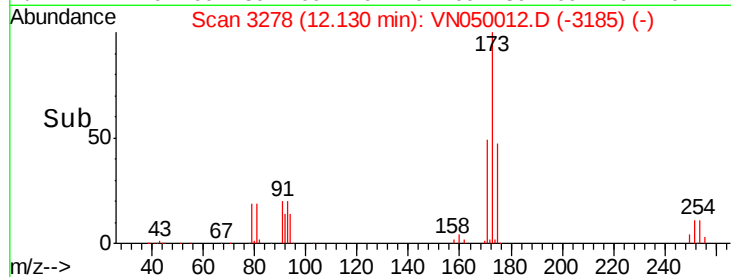
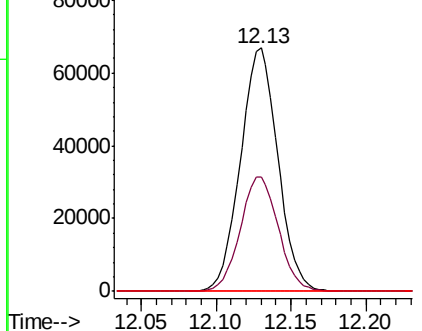
7/26/2018 1:50:47 PM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Tgt Ion:152 Resp: 421041

Ion Ratio Lower Upper

152 100

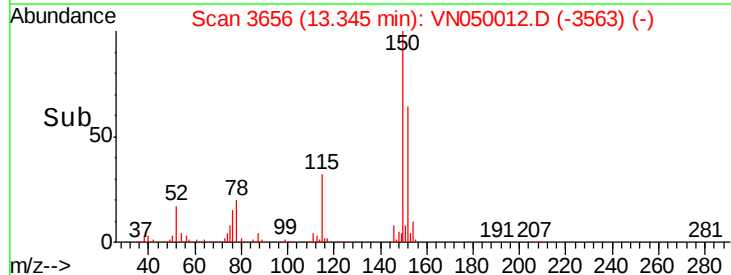
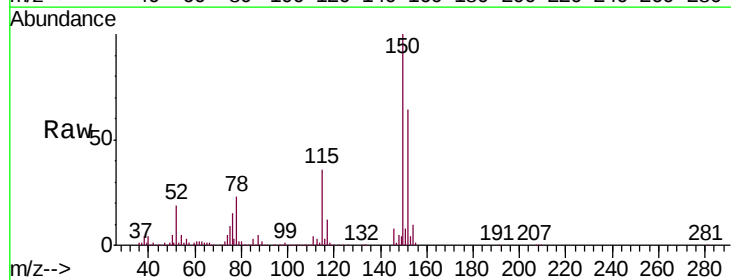
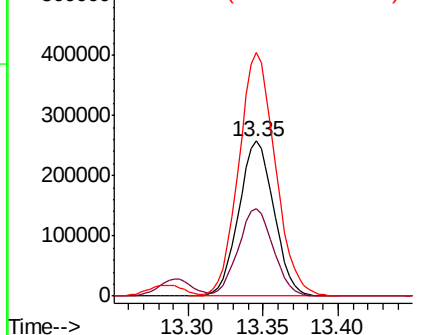
115 56.4 27.8 83.3

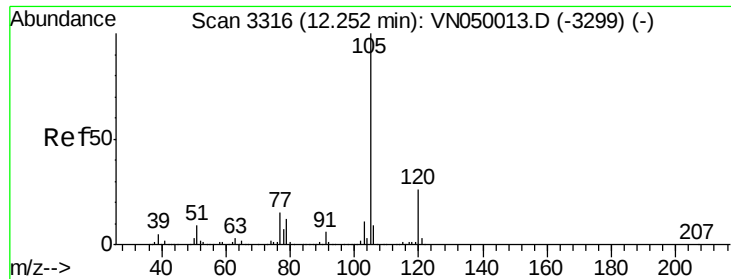
150 163.7 0.0 348.6

Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





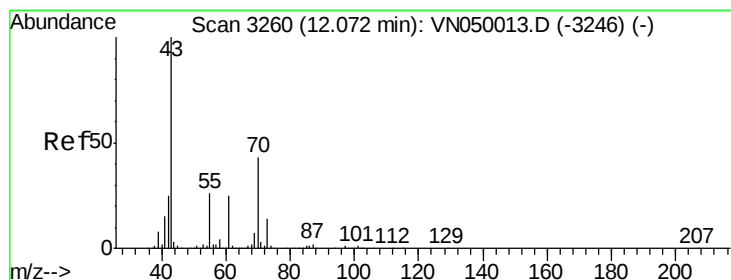
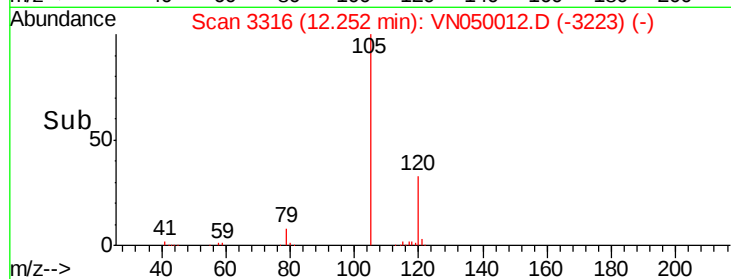
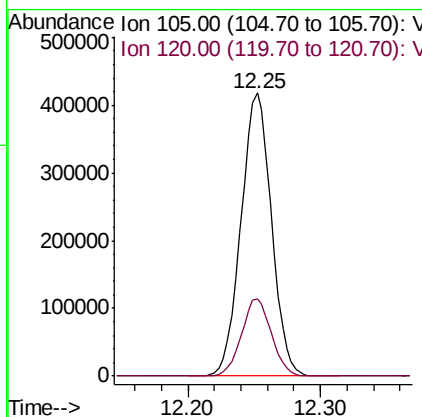
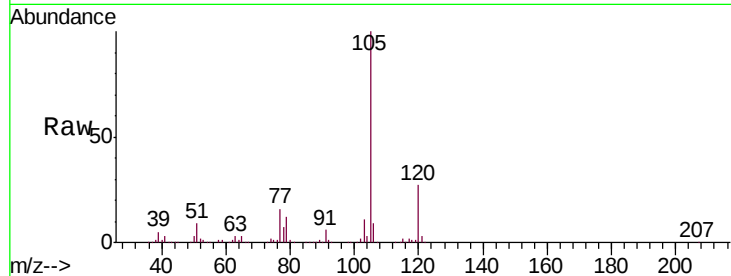
#73
Isopropylbenzene
Concen: 20.66 ug/l
RT: 12.25 min Scan# 3316
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.3	39.8

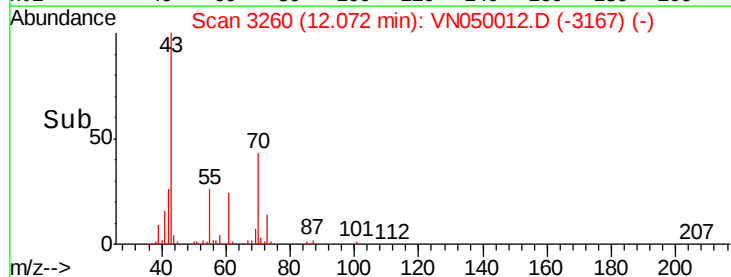
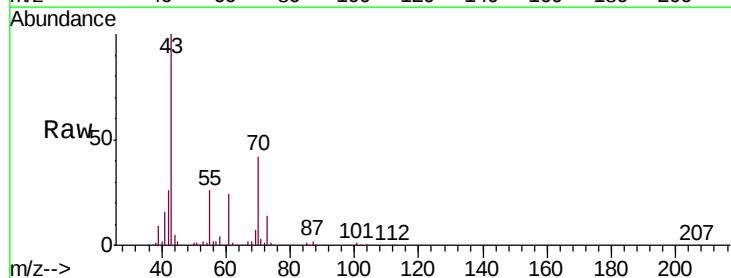
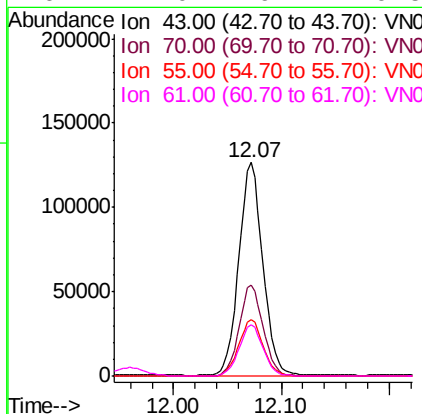
Manual Integrations
APPROVED

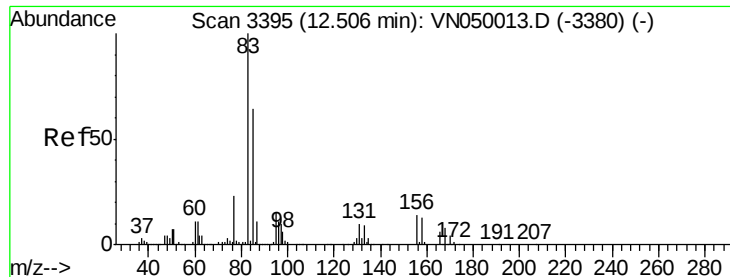
MMDadoda
7/26/2018 1:50:47 PM



#74
N-ethyl acetate
Concen: 20.08 ug/l
RT: 12.07 min Scan# 3260
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
43	100		
70	42.3	34.4	51.6
55	26.9	20.8	31.2
61	24.0	19.7	29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 19.89 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

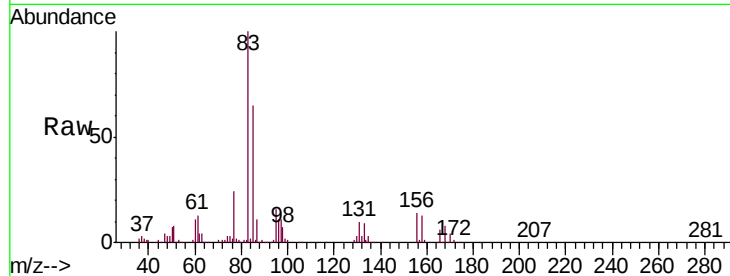
ClientSampled :

VSTDIC020

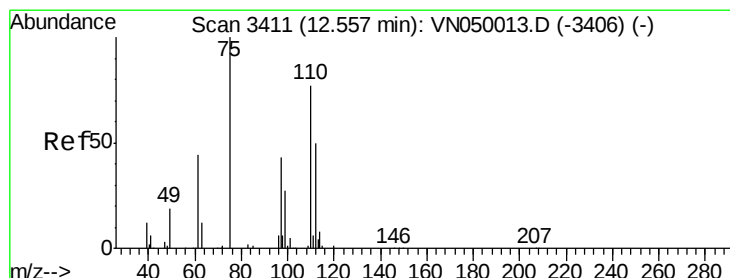
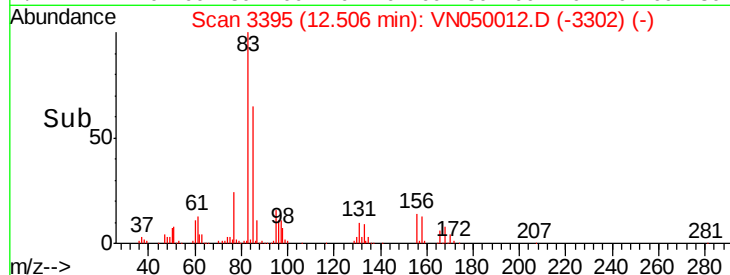
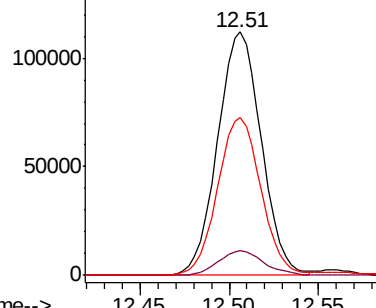
Tot Ion:	83	Resp:	191335
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.1	15.3
85	64.7	32.3	96.8

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



#76

1,2,3-Trichloropropane

Concen: 19.39 ug/l m

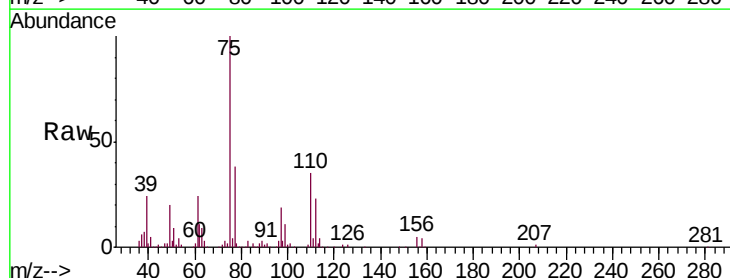
RT: 12.56 min Scan# 3411

Delta R.T. 0.00 min

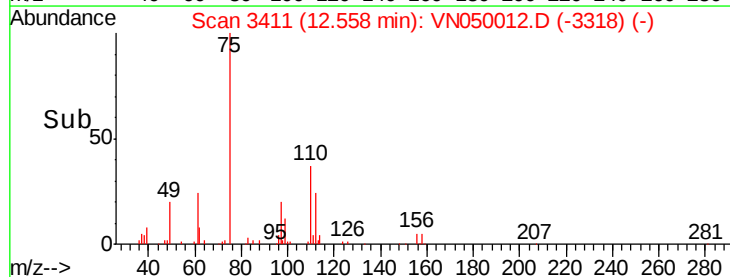
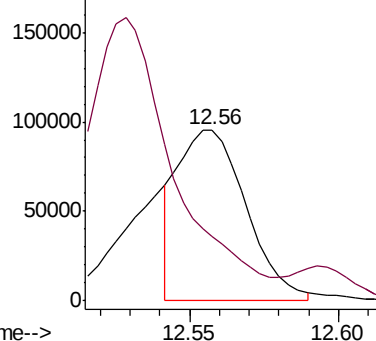
Lab File: VN050012.D

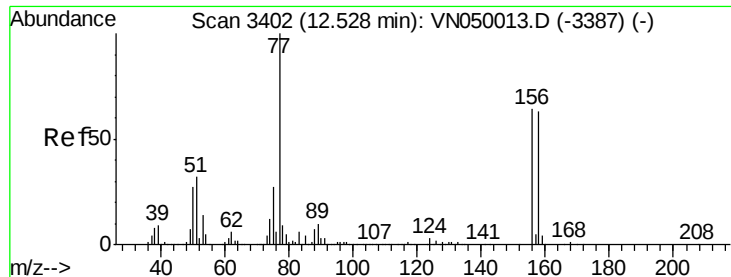
Acq: 23 Jul 2018 18:22

Tgt Ion:	75	Resp:	152759
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



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





#77

Bromobenzene

Concen: 19.68 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

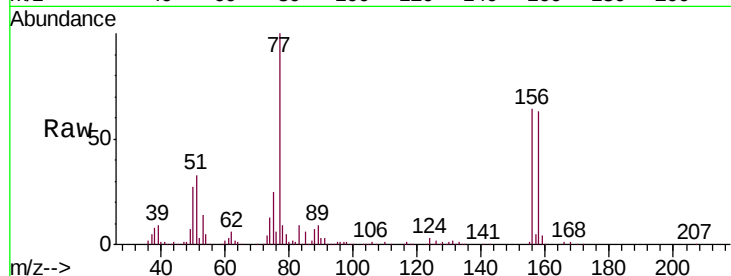
ClientSampleId :

VSTDIC020

Tot Ion:	156	Resp:	174777
Ion Ratio	Lower	Upper	
156	100		
77	188.6	91.7	275.1
158	97.5	48.9	146.6

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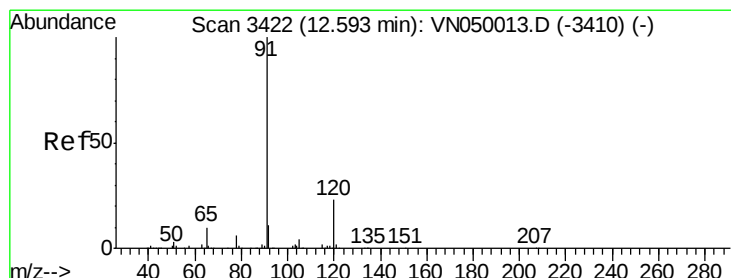
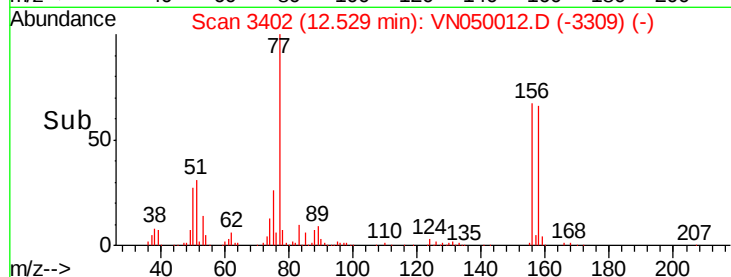
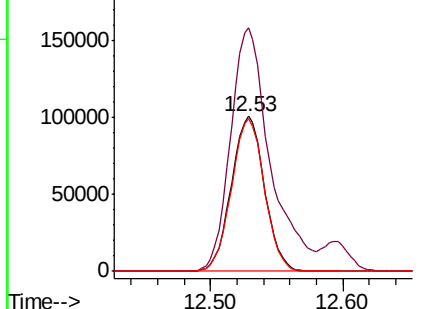
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.94 ug/l

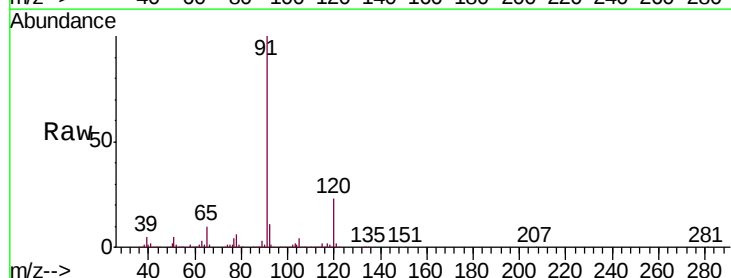
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050012.D

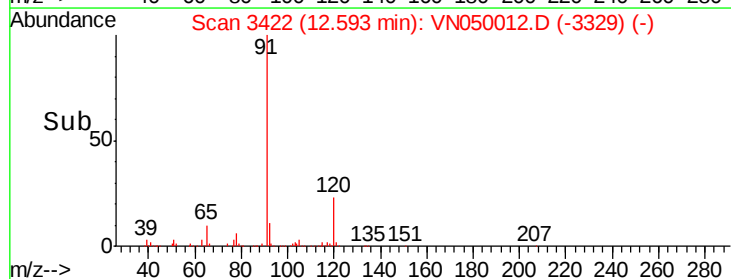
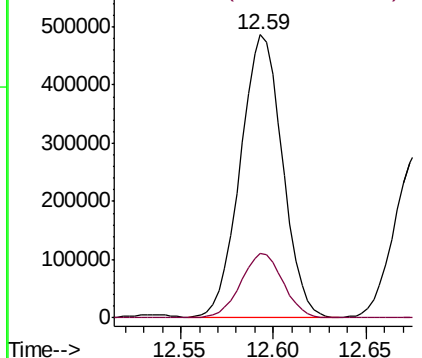
Acq: 23 Jul 2018 18:22

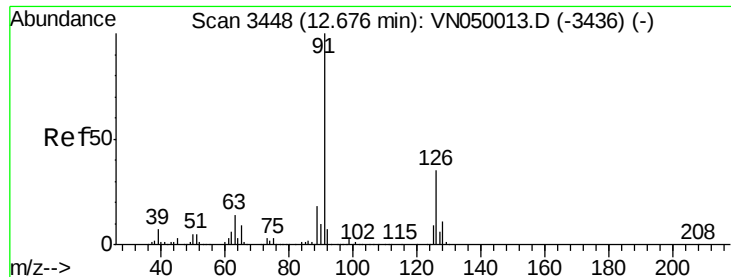
Tgt Ion:	91	Resp:	765602
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.6	34.7



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.80 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 466799

Ion Ratio Lower Upper

91 100

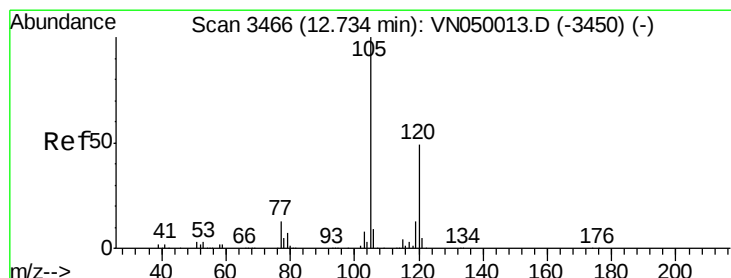
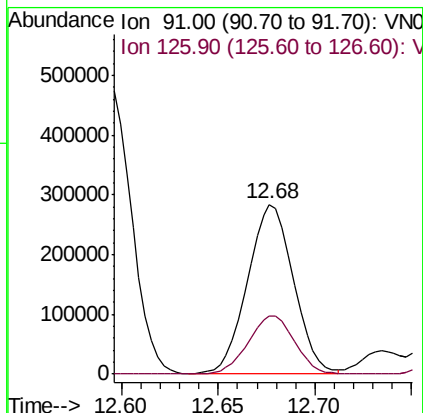
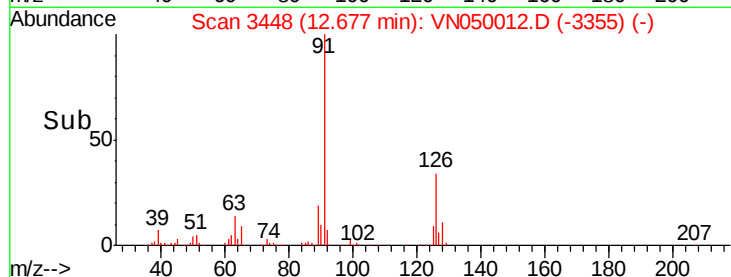
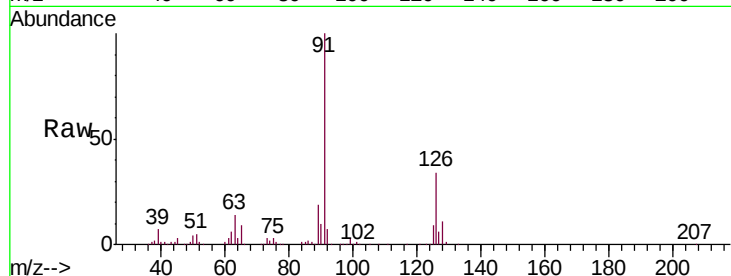
126 34.8 17.6 52.8

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#80

1,3,5-Trimethylbenzene

Concen: 21.48 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050012.D

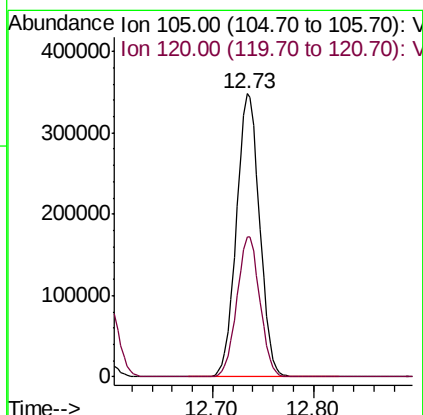
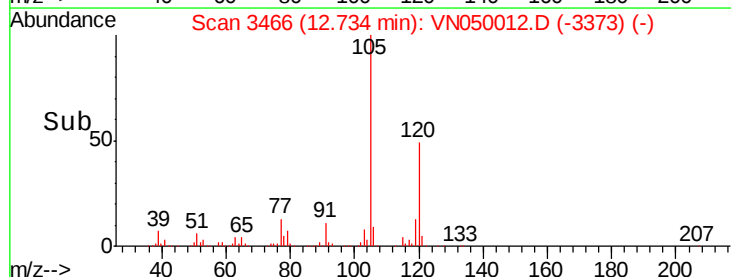
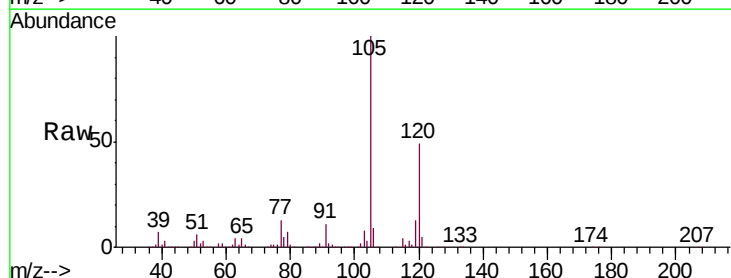
Acq: 23 Jul 2018 18:22

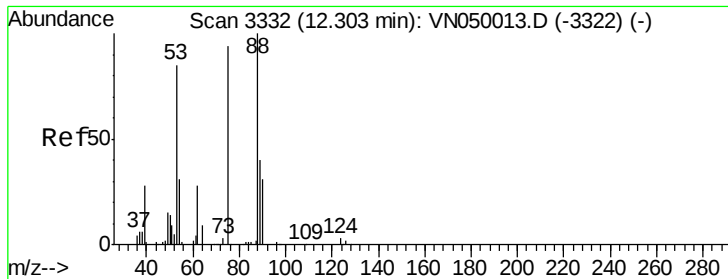
Tgt Ion: 105 Resp: 553382

Ion Ratio Lower Upper

105 100

120 49.2 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 19.41 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 49105

Ion Ratio Lower Upper

75 100

53 97.9 73.5 110.3

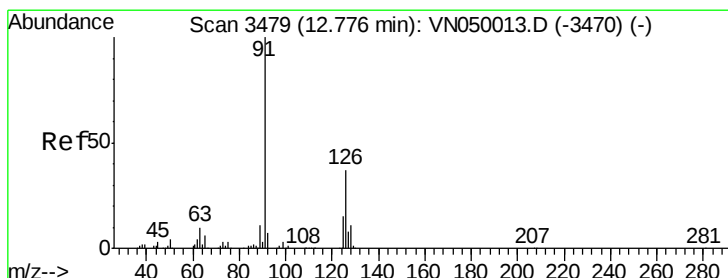
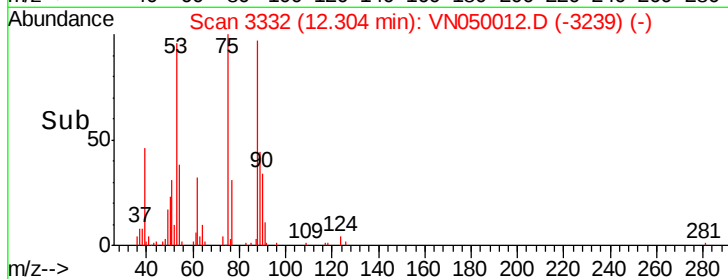
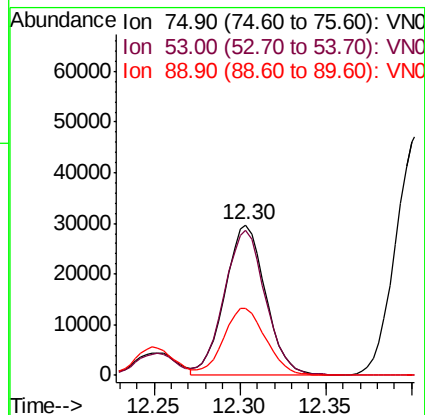
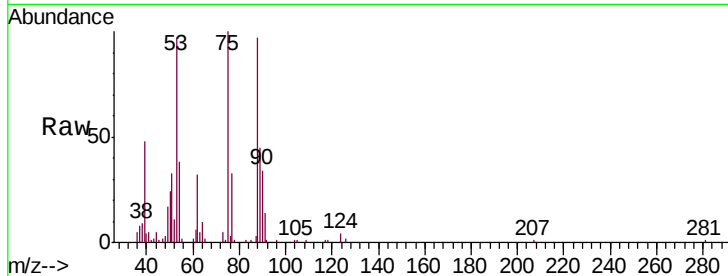
89 45.9 36.0 54.0

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#82

4-Chlorotoluene

Concen: 20.61 ug/l

RT: 12.78 min Scan# 3479

Delta R.T. 0.00 min

Lab File: VN050012.D

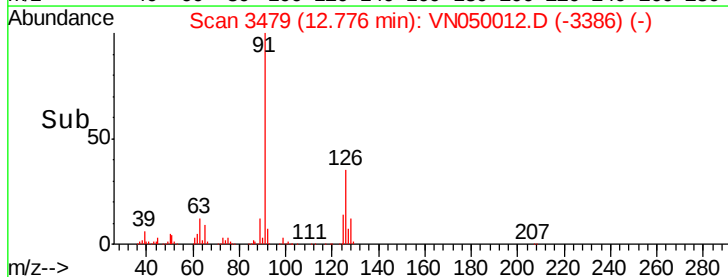
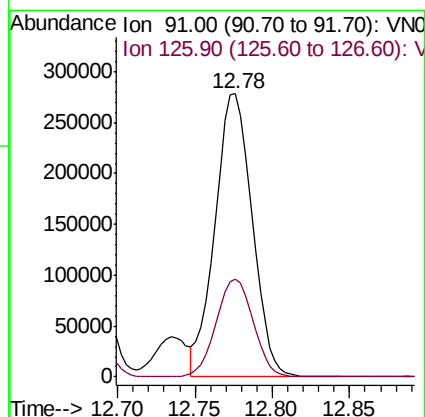
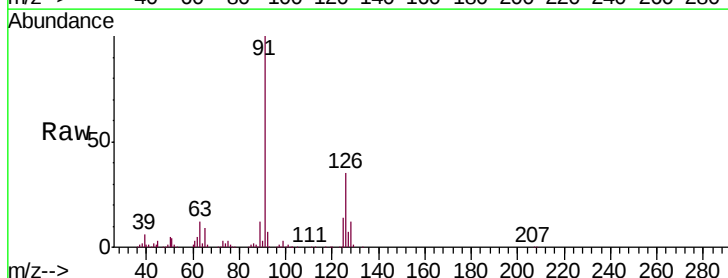
Acq: 23 Jul 2018 18:22

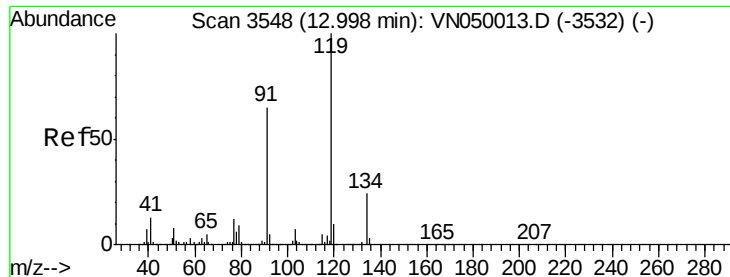
Tgt Ion: 91 Resp: 463864

Ion Ratio Lower Upper

91 100

126 34.6 17.0 51.0





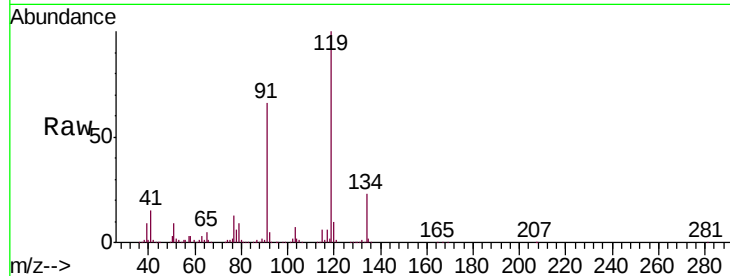
#83
tert-Butylbenzene
Concen: 20.43 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. -0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

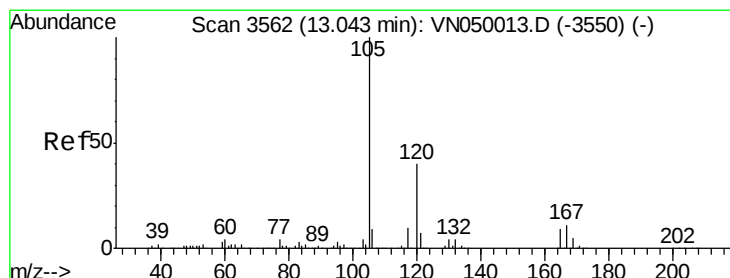
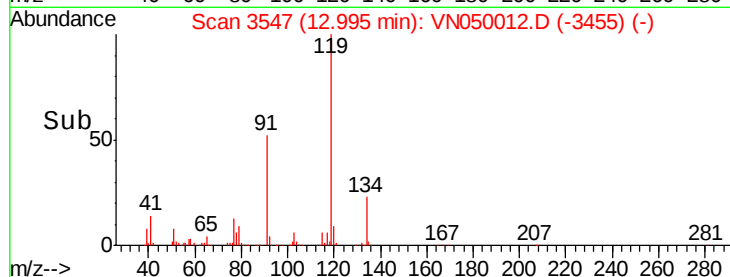
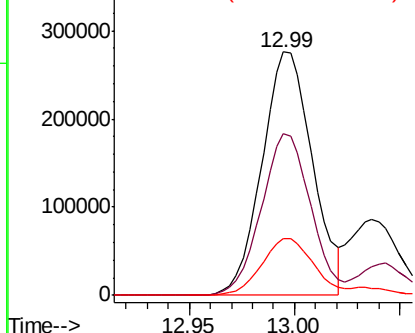
Tot Ion	Ratio	Lower	Upper
119	100		
91	64.9	32.1	96.3
134	24.1	13.2	39.5

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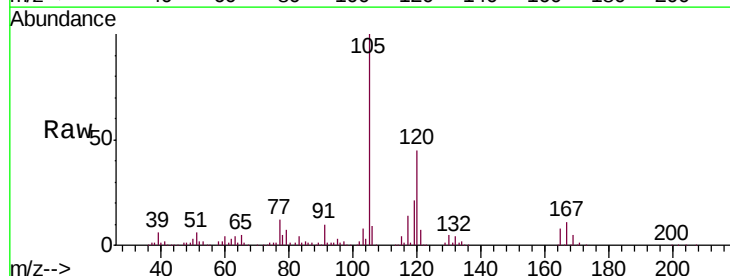


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

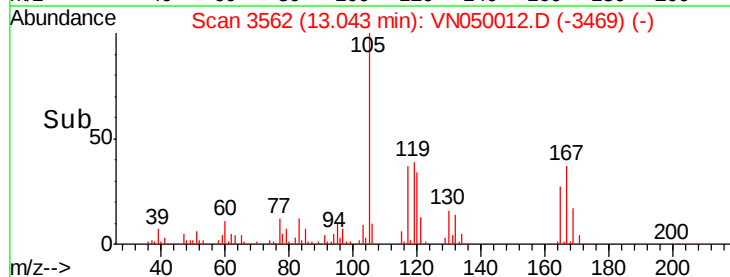
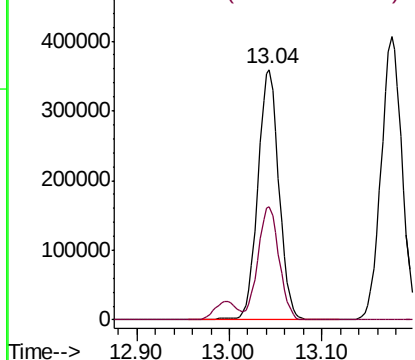


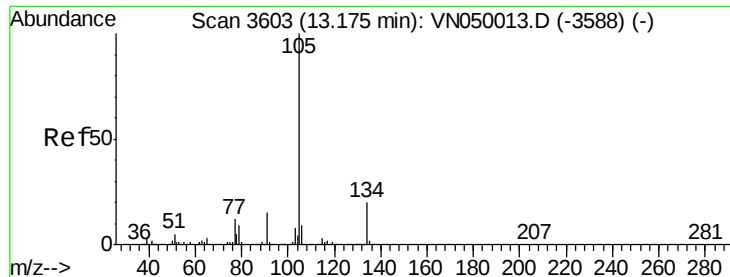
#84
1,2,4-Trimethylbenzene
Concen: 21.65 ug/l
RT: 13.04 min Scan# 3562
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.6	22.9	68.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 21.16 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 631839

Ion Ratio Lower Upper

105 100

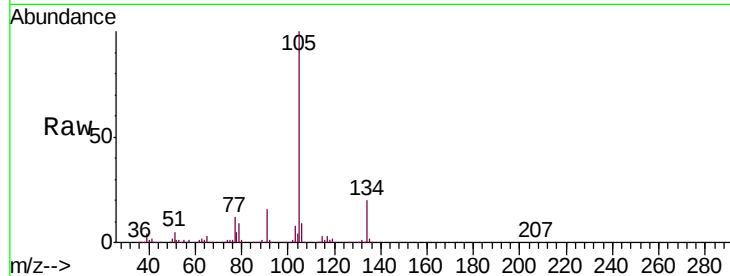
134 19.9 10.1 30.1

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

400000

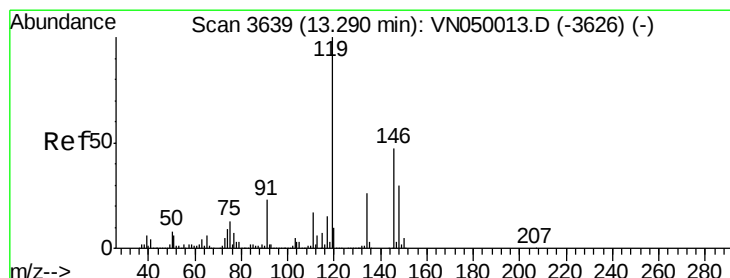
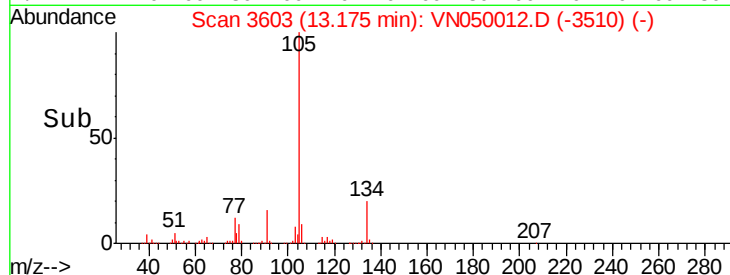
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 21.12 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

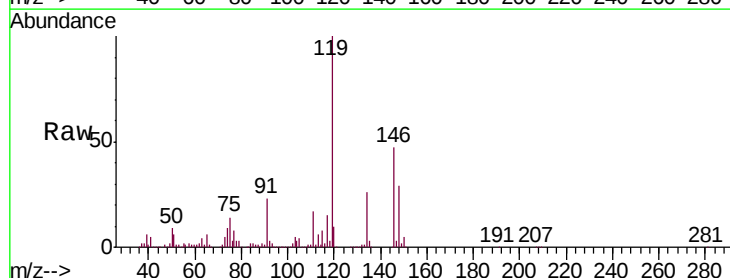
Tgt Ion:119 Resp: 537855

Ion Ratio Lower Upper

119 100

134 26.3 13.3 39.8

91 23.1 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

13.29

400000

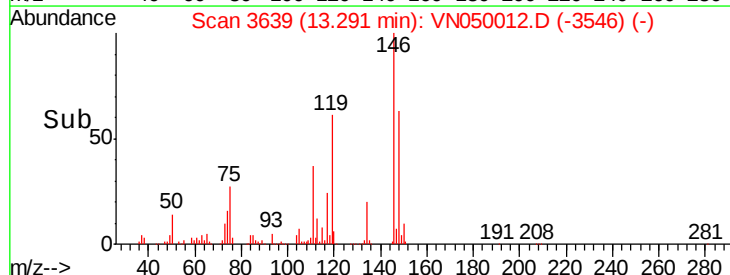
300000

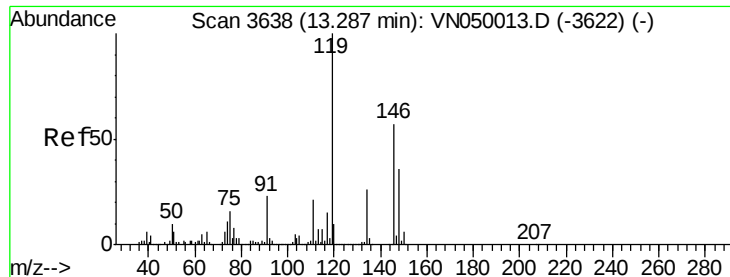
200000

100000

0

Time-->





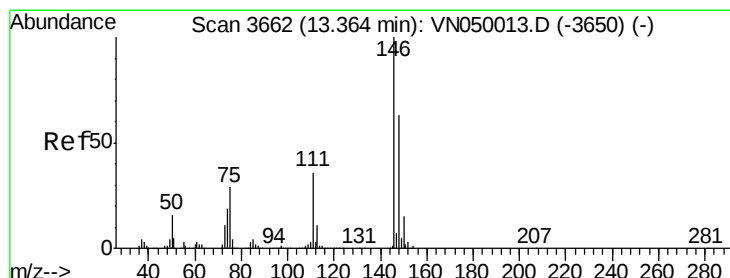
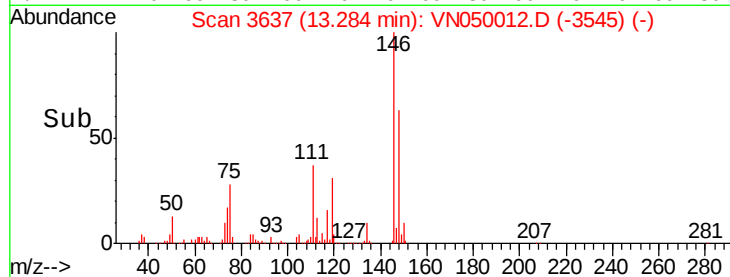
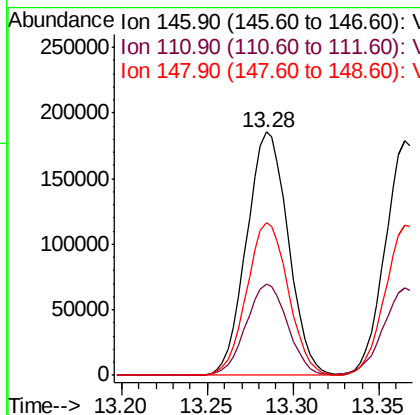
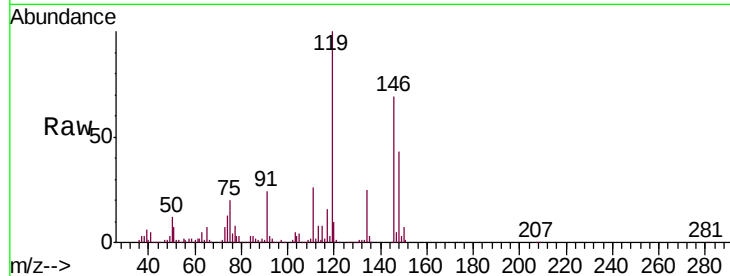
#87
 1,3-Dichlorobenzene
 Concen: 20.19 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.8	56.4
148	62.7	31.9	95.9

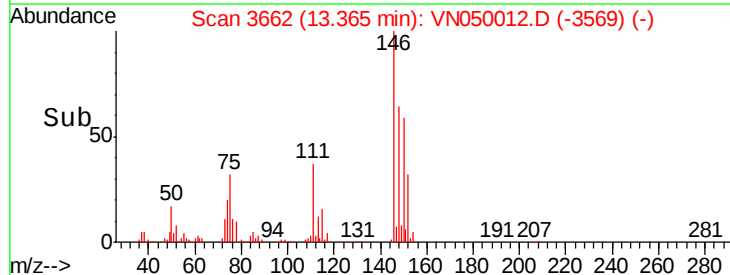
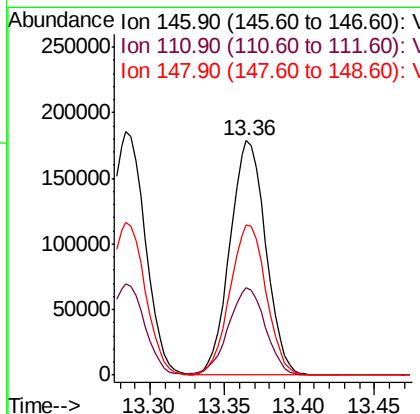
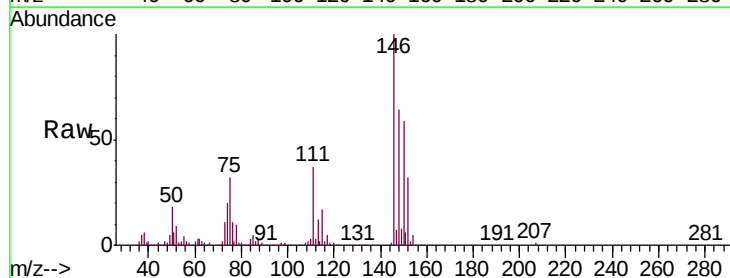
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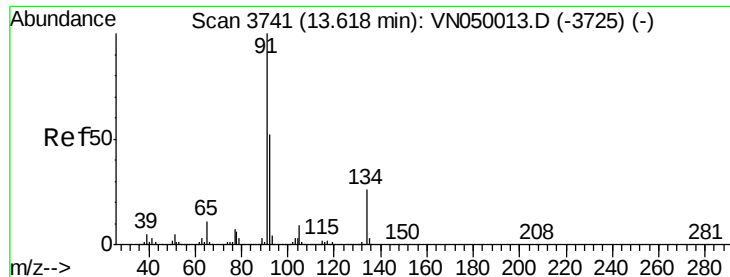
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#88
 1,4-Dichlorobenzene
 Concen: 19.25 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.6	18.3	54.9
148	64.8	31.9	95.9





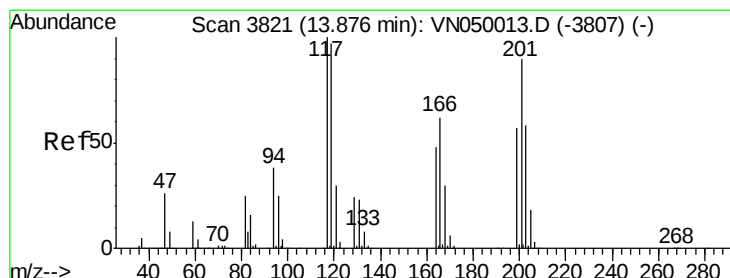
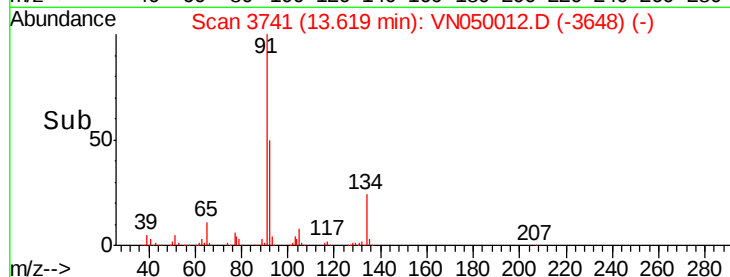
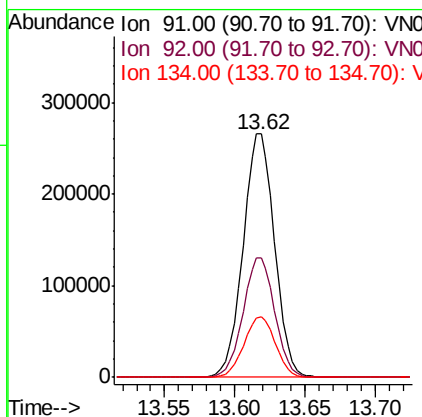
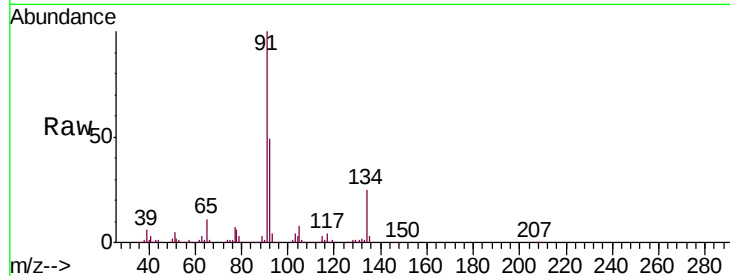
#89
n-Butylbenzene
Concen: 19.77 ug/l
RT: 13.62 min Scan# 3741
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	49.3	25.8	77.4
134	24.8	12.8	38.4

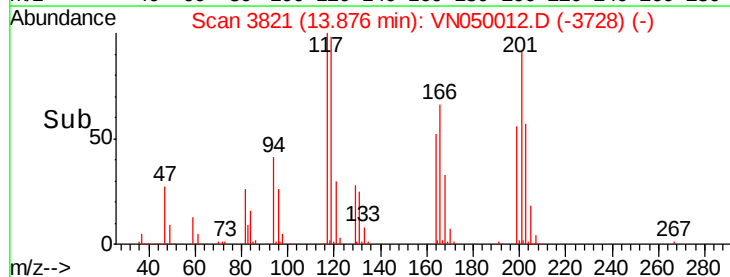
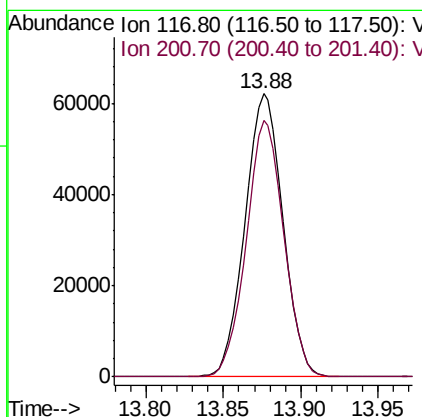
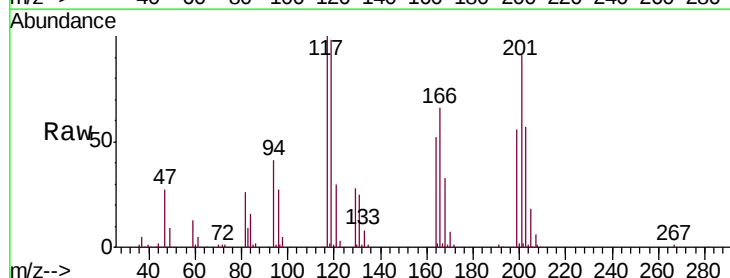
Manual Integrations
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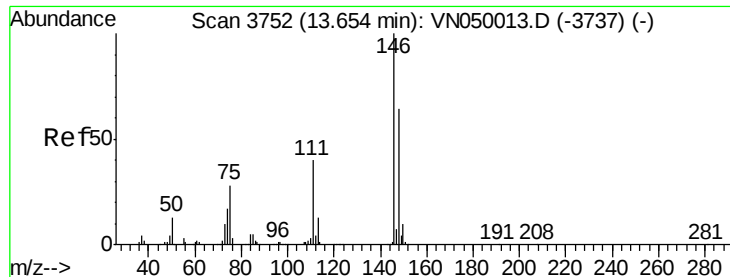
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#90
Hexachloroethane
Concen: 18.60 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.4	45.6	136.8





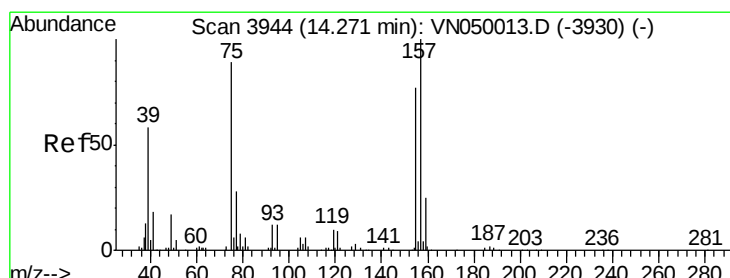
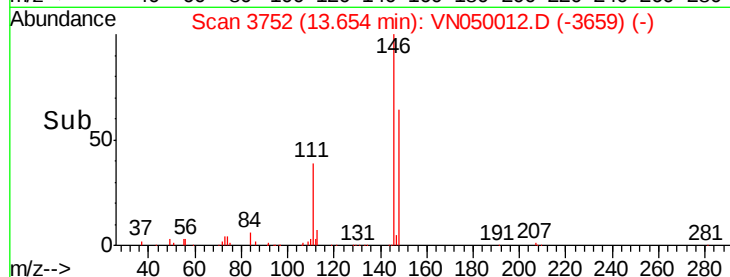
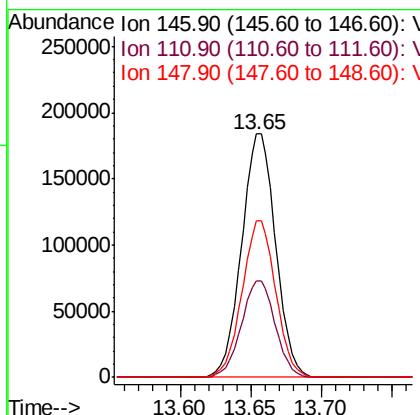
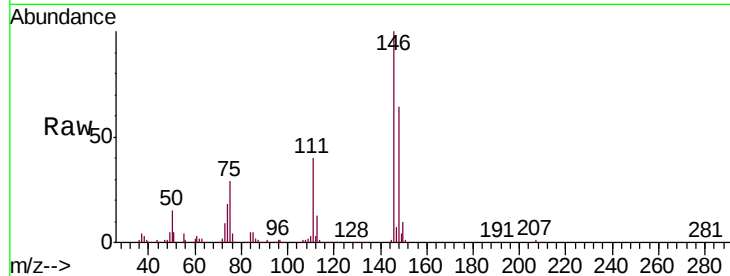
#91
 1,2-Dichlorobenzene
 Concen: 20.43 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.6	58.7
148	63.6	32.1	96.3

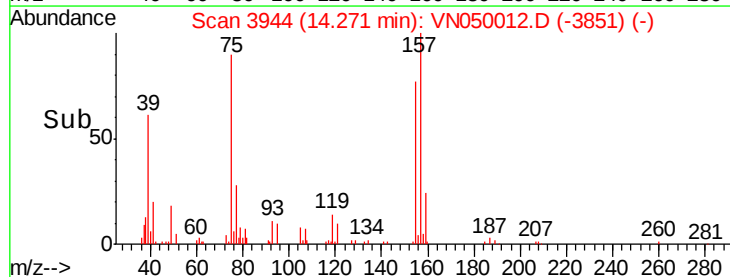
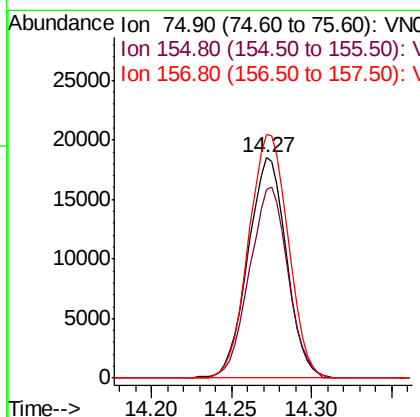
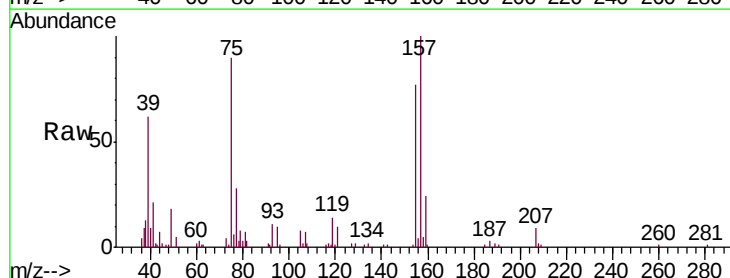
Manual Integrations
 APPROVED

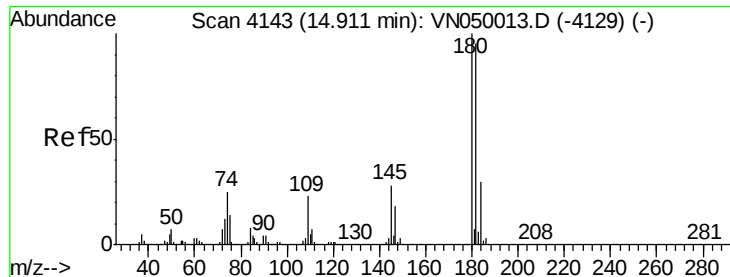
MMDadoda
 7/26/2018 1:50:47 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.42 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050012.D
 Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.6	44.8	134.4
157	113.4	57.2	171.6





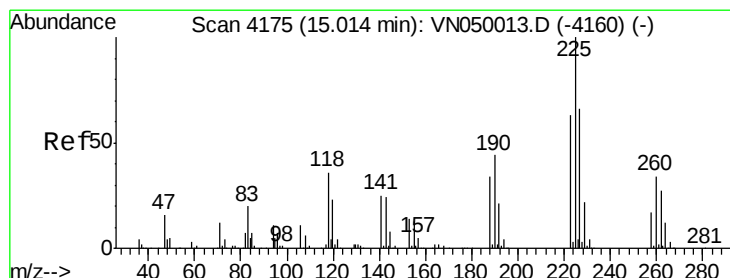
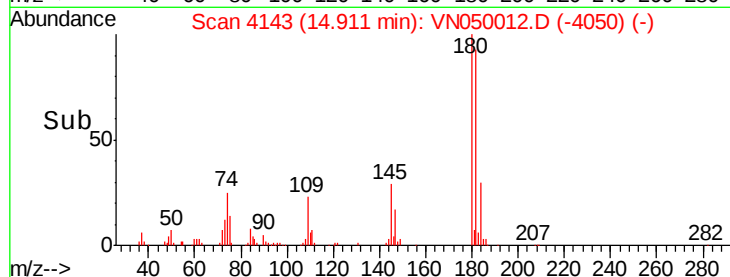
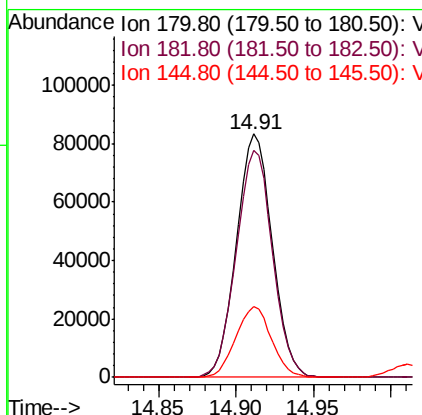
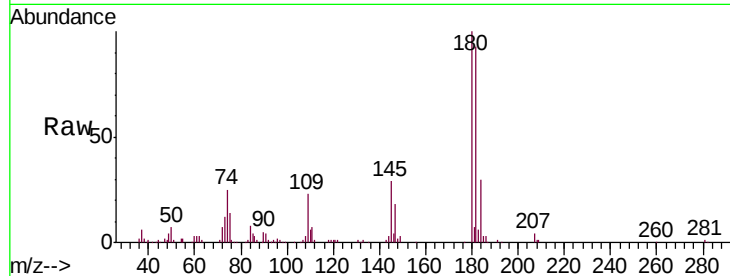
#93
1,2,4-Trichlorobenzene
Concen: 19.22 ug/l
RT: 14.91 min Scan# 4143
Delta R.T. 0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.3	46.7	140.1
145	29.0	13.8	41.4

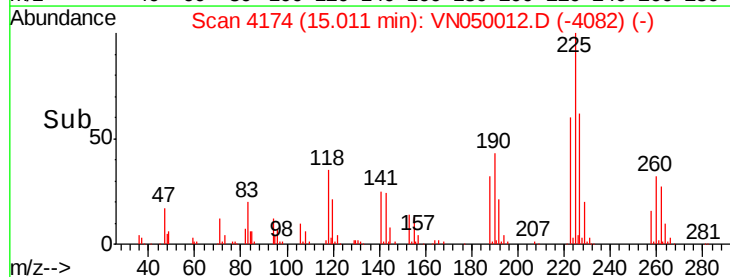
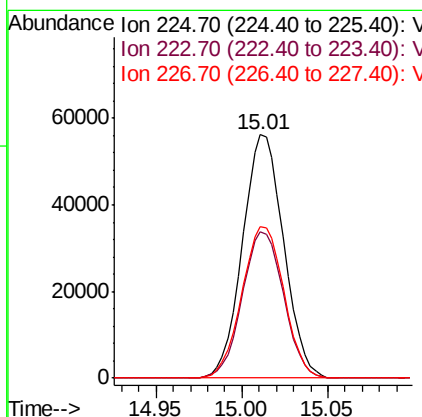
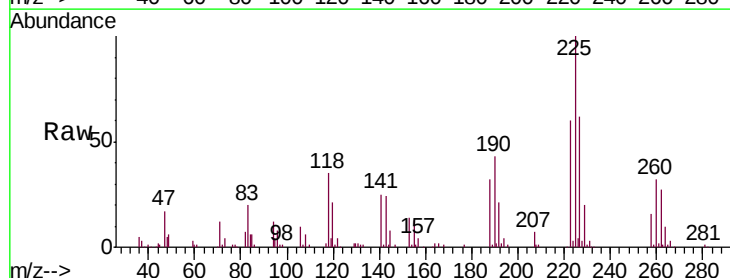
Manual Integrations
APPROVED

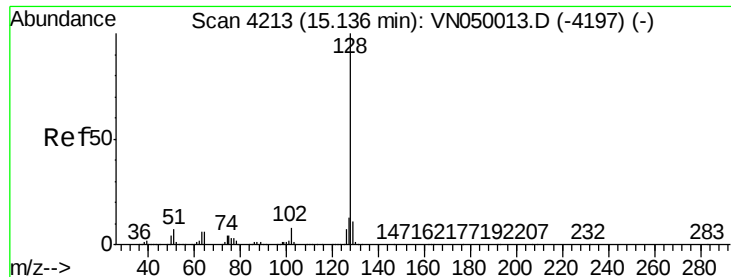
MMDadoda
7/26/2018 1:50:47 PM



#94
Hexachlorobutadiene
Concen: 18.80 ug/l
RT: 15.01 min Scan# 4174
Delta R.T. -0.00 min
Lab File: VN050012.D
Acq: 23 Jul 2018 18:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.3	31.4	94.2
227	63.3	32.1	96.5





#95

Naphthalene

Concen: 18.40 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Instrument :

MSVOA_N

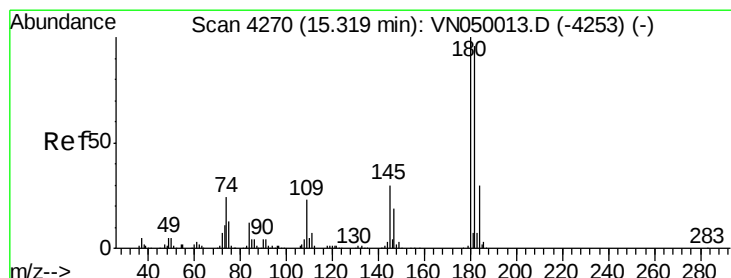
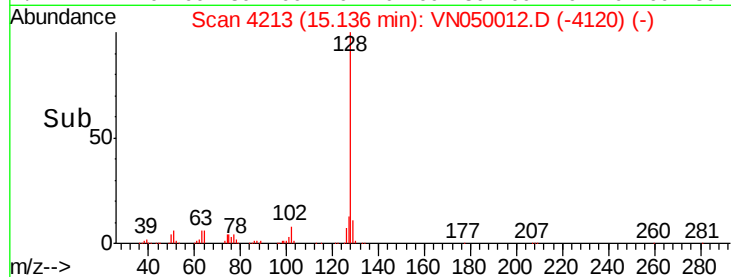
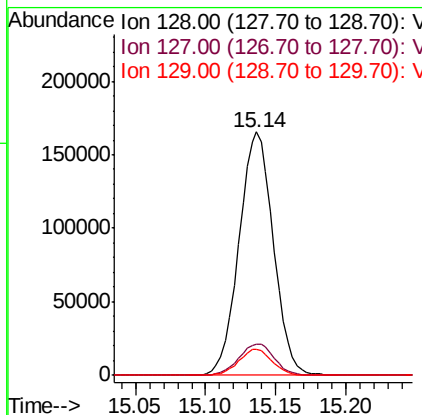
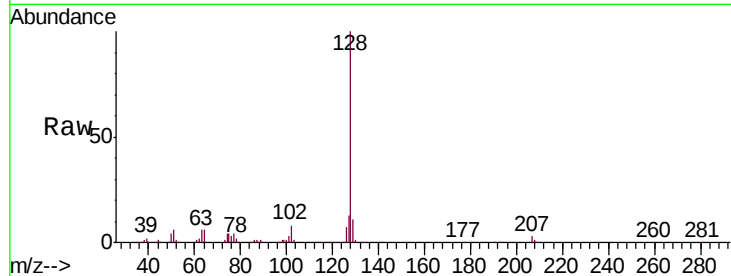
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	282075
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.4	15.6
129	10.6	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
7/26/2018 1:50:47 PM



#96

1,2,3-Trichlorobenzene

Concen: 19.60 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN050012.D

Acq: 23 Jul 2018 18:22

Tgt Ion:	180	Resp:	142163
Ion Ratio	Lower	Upper	
180	100		
182	94.9	48.1	144.4
145	30.0	15.3	45.9

