

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
 Data File : VN049903.D
 Acq On : 19 Jul 2018 5:18
 Operator : MD\SY
 Sample : VN0718WBS05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Manual Integrations
 APPROVED

MMDadoda
 7/19/2018 4:29:02 PM

Quant Time: Jul 19 08:32:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 13:09:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	609125	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	922983	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	824471	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	412834	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	421116	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
35) Dibromofluoromethane	7.59	113	380530	49.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.22%	
50) Toluene-d8	10.09	98	1380954	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
62) 4-Bromofluorobenzene	12.40	95	453643	46.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.32%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.85	85	115564	19.94	ug/l	98
3) Chloromethane	2.06	50	152734	18.37	ug/l	98
4) Vinyl Chloride	2.18	62	168596	19.01	ug/l	99
5) Bromomethane	2.56	94	102099	19.43	ug/l	100
6) Chloroethane	2.70	64	107507	18.56	ug/l	96
7) Trichlorofluoromethane	3.01	101	232495	19.07	ug/l	98
8) Diethyl Ether	3.41	74	84382	19.84	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	140572	18.70	ug/l	99
10) Methyl Iodide	3.95	142	193918	19.23	ug/l	99
11) Tert butyl alcohol	4.80	59	51984	87.16	ug/l	99
12) 1,1-Dichloroethene	3.73	96	127333	19.28	ug/l	98
13) Acrolein	3.61	56	33608	87.45	ug/l	95
14) Allyl chloride	4.32	41	201159	19.32	ug/l	98
15) Acrylonitrile	4.99	53	244873	93.35	ug/l	98
16) Acetone	3.82	43	178418	82.31	ug/l	98
17) Carbon Disulfide	4.05	76	359751	18.21	ug/l	99
18) Methyl Acetate	4.33	43	145358	20.86	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	370601	20.40	ug/l	99
20) Methylene Chloride	4.55	84	153602	18.63	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	140176	19.99	ug/l	98
22) Diisopropyl ether	5.96	45	454797	21.41	ug/l	99
23) Vinyl Acetate	5.90	43	1489348	99.92	ug/l	100
24) 1,1-Dichloroethane	5.85	63	272131	19.95	ug/l	99
25) 2-Butanone	6.84	43	280149	90.43	ug/l	97
26) 2,2-Dichloropropane	6.82	77	166020	15.65	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	161301	20.96	ug/l	95
28) Bromochloromethane	7.19	49	128738	20.90	ug/l	99
29) Tetrahydrofuran	7.22	42	185476	95.04	ug/l	100
30) Chloroform	7.37	83	278618	19.90	ug/l	100
31) Cyclohexane	7.65	56	223275	20.11	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	240139	19.85	ug/l	99
36) 1,1-Dichloropropene	7.79	75	200306	19.52	ug/l	100
37) Ethyl Acetate	6.93	43	131669	18.68	ug/l	98
38) Carbon Tetrachloride	7.77	117	212452	19.33	ug/l	98

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Instrument :
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Manual Integrations
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Quant Time: Jul 19 08:32:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 13:09:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	201013	18.96	ug/l	97
40) Benzene	8.04	78	617894	19.75	ug/l	100
41) Methacrylonitrile	7.17	41	58278	16.50	ug/l #	83
42) 1,2-Dichloroethane	8.13	62	201118	19.41	ug/l	99
43) Isopropyl Acetate	8.17	43	259078	21.04	ug/l	98
44) Trichloroethene	8.83	130	161817	19.73	ug/l	100
45) 1,2-Dichloropropane	9.12	63	163083	19.33	ug/l	99
46) Dibromomethane	9.21	93	98240	18.77	ug/l	99
47) Bromodichloromethane	9.40	83	211803	19.57	ug/l	100
48) Methyl methacrylate	9.20	41	114317	18.51	ug/l	100
49) 1,4-Dioxane	9.20	88	30637	349.70	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	651955	94.73	ug/l	100
52) Toluene	10.16	92	380634	20.40	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	195137	18.24	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	225835	19.10	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	144887	18.80	ug/l	98
56) Ethyl methacrylate	10.43	69	173075	18.16	ug/l	99
57) 1,3-Dichloropropane	10.71	76	235643	19.41	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	414359	100.91	ug/l	100
59) 2-Hexanone	10.75	43	422144	91.32	ug/l	99
60) Dibromochloromethane	10.90	129	158577	18.76	ug/l	100
61) 1,2-Dibromoethane	11.01	107	138091	19.17	ug/l	100
64) Tetrachloroethene	10.63	164	148188	20.00	ug/l	99
65) Chlorobenzene	11.43	112	413440	19.96	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	154333	19.23	ug/l	98
67) Ethyl Benzene	11.51	91	679322	20.22	ug/l	99
68) m/p-Xylenes	11.62	106	534118	41.99	ug/l	97
69) o-Xylene	11.95	106	253320	20.73	ug/l	97
70) Styrene	11.96	104	409220	20.68	ug/l	100
71) Bromoform	12.13	173	108544	18.91	ug/l #	100
73) Isopropylbenzene	12.25	105	674966	21.52	ug/l	100
74) N-amyl acetate	12.07	43	187875	19.68	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	177582	18.90	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	146962m	18.98	ug/l	
77) Bromobenzene	12.53	156	176714	20.41	ug/l	99
78) n-propylbenzene	12.59	91	769747	21.59	ug/l	100
79) 2-Chlorotoluene	12.67	91	464596	21.22	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	555938	22.12	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	40700	16.43	ug/l	93
82) 4-Chlorotoluene	12.77	91	469565	21.38	ug/l	99
83) tert-Butylbenzene	12.99	119	467316	21.17	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	564186	22.16	ug/l	99
85) sec-Butylbenzene	13.17	105	633869	21.73	ug/l	100
86) p-Isopropyltoluene	13.29	119	538456	21.65	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	305614	20.26	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	293065	19.37	ug/l	98
89) n-Butylbenzene	13.62	91	418677	20.39	ug/l	99
90) Hexachloroethane	13.88	117	107696	19.30	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	298852	20.15	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	26424	18.20	ug/l	99

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Manual Integrations
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Quant Time: Jul 19 08:32:16 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 13:09:48 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	136240	18.97	ug/l	100
94) Hexachlorobutadiene	15.01	225	91863	18.90	ug/l	98
95) Naphthalene	15.13	128	289902	17.99	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	141513	19.88	ug/l	99

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

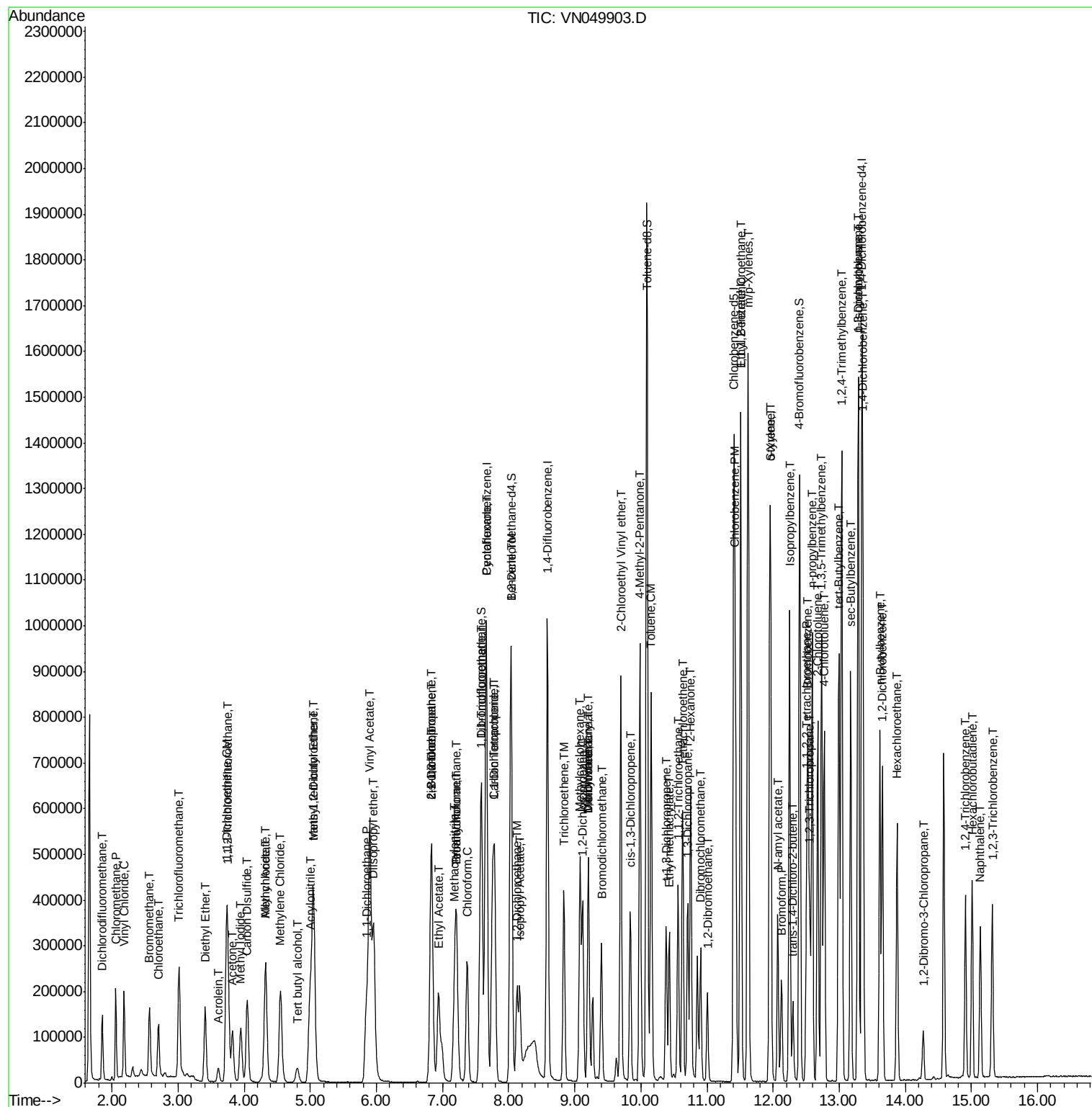
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
 Data File : VN049903.D
 Acq On : 19 Jul 2018 5:18
 Operator : MD\SY
 Sample : VN0718WBS05
 Misc : 5.00mL/MSVOA N/WATER
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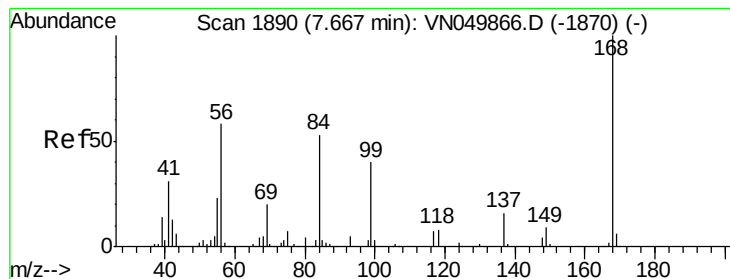
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Manual Integrations
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 Quant Title : SW846 8260
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 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS05

Tot Ion:168 Resp: 609125

Ion Ratio Lower Upper

168 100

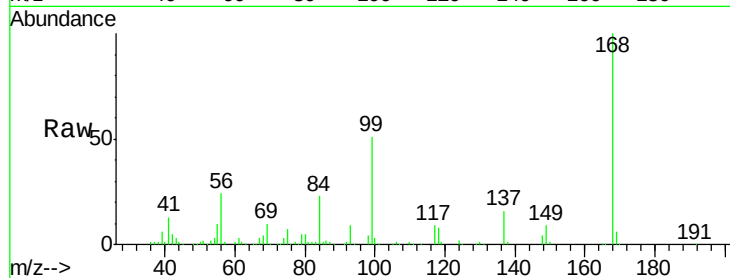
99 50.9 40.6 61.0

Manual Integrations

APPROVED

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7/19/2018 4:29:02 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

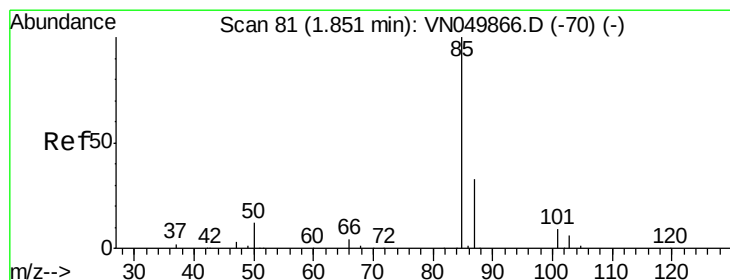
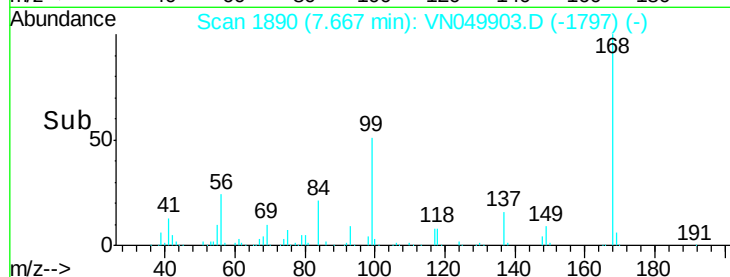
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 19.94 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049903.D

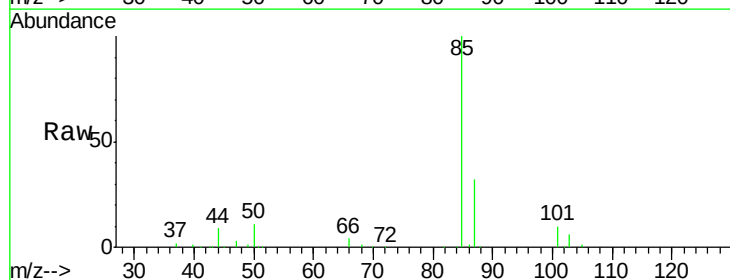
Acq: 19 Jul 2018 5:18

Tgt Ion: 85 Resp: 115564

Ion Ratio Lower Upper

85 100

87 32.1 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

80000

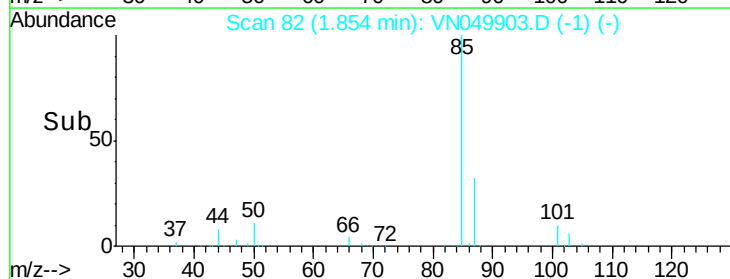
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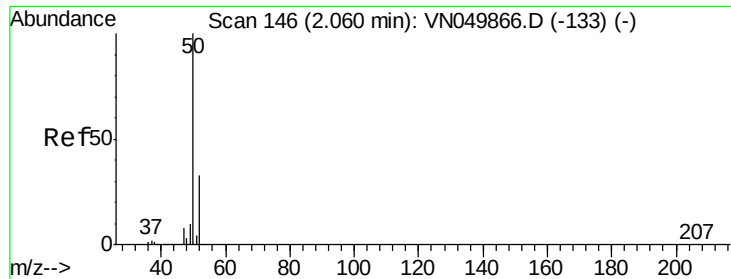
40000

20000

0

Time--> 1.80 1.85 1.90 1.95





#3

Chloromethane

Concen: 18.37 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS05

Tot Ion: 50 Resp: 152734

Ion Ratio Lower Upper

50 100

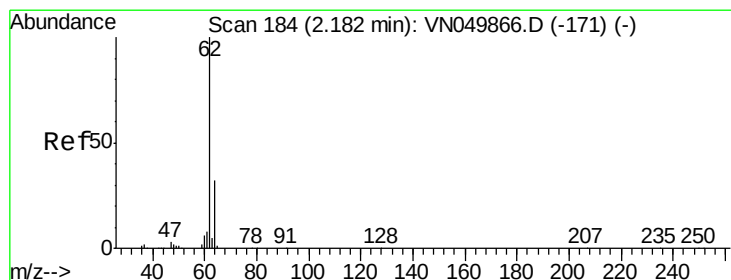
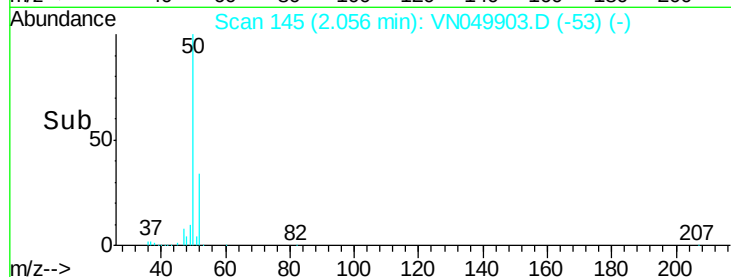
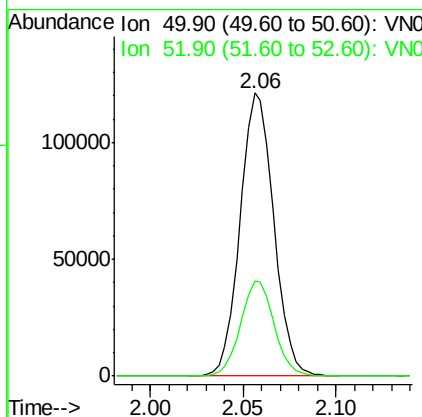
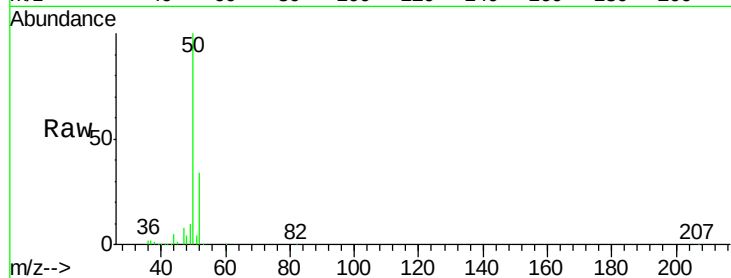
52 33.6 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.01 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN049903.D

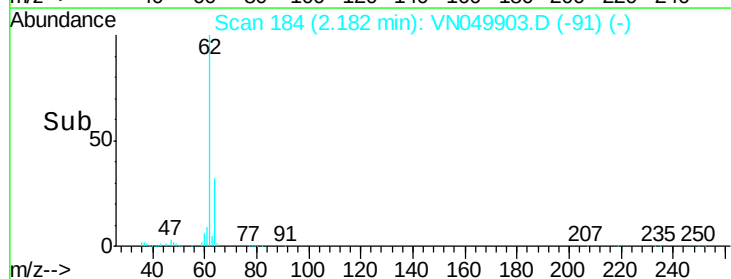
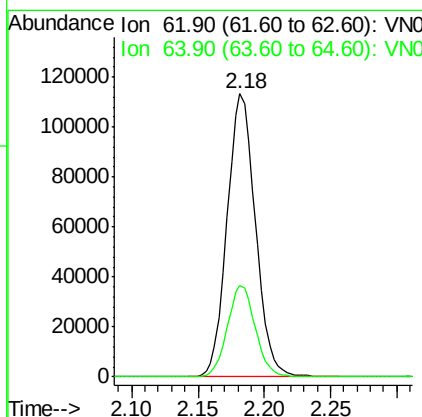
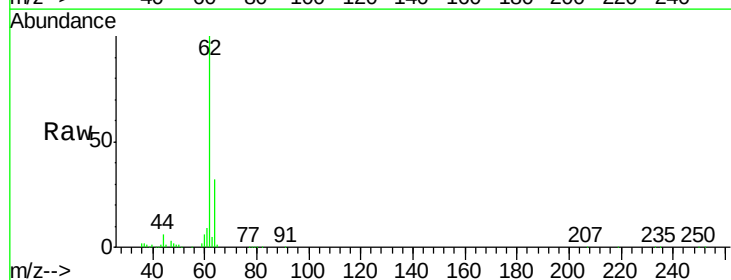
Acq: 19 Jul 2018 5:18

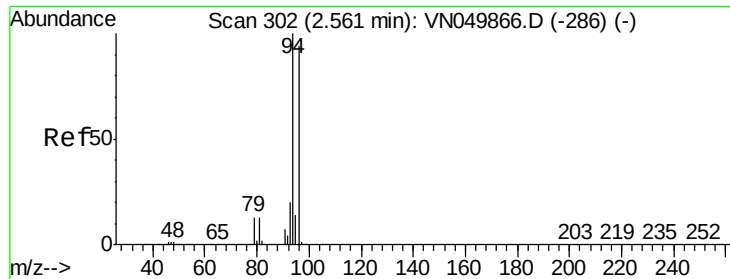
Tgt Ion: 62 Resp: 168596

Ion Ratio Lower Upper

62 100

64 32.5 25.4 38.0





#5

Bromomethane

Concen: 19.43 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS05

Tot Ion: 94 Resp: 102099

Ion Ratio Lower Upper

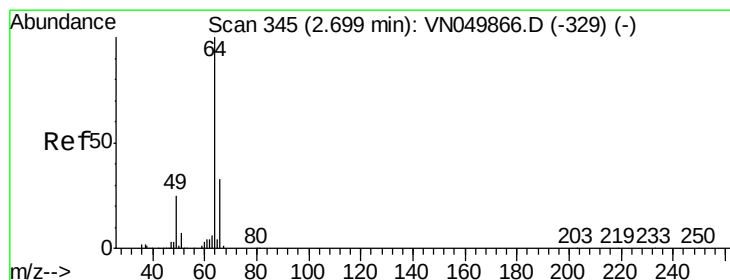
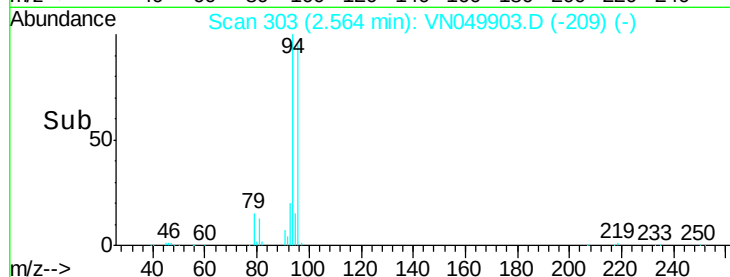
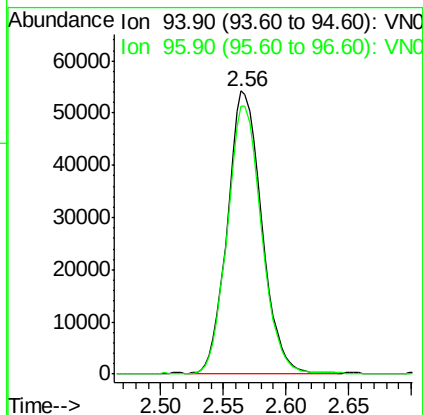
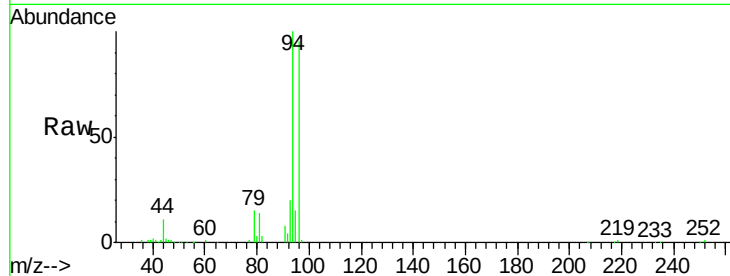
94 100

96 94.7 75.7 113.5

Manual Integrations
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#6

Chloroethane

Concen: 18.56 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN049903.D

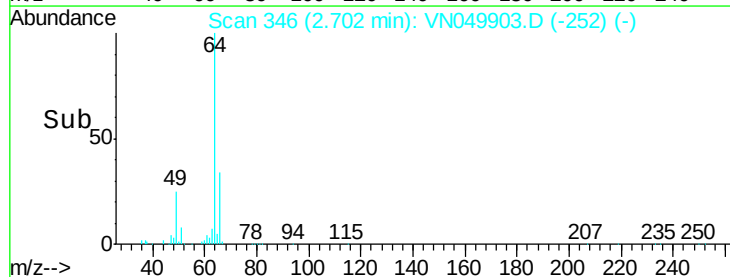
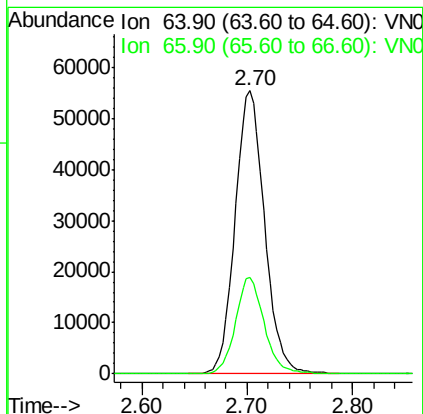
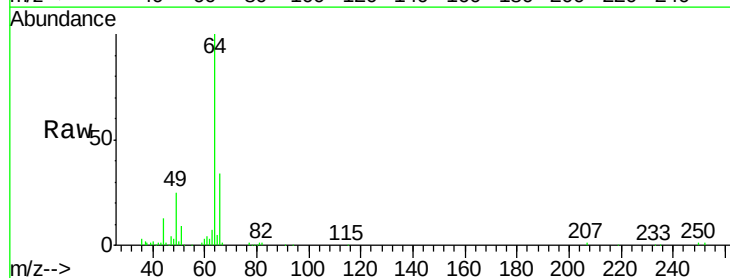
Acq: 19 Jul 2018 5:18

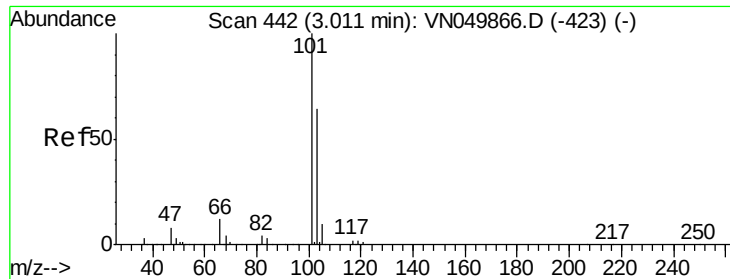
Tgt Ion: 64 Resp: 107507

Ion Ratio Lower Upper

64 100

66 34.1 25.6 38.4





#7

Trichlorofluoromethane

Concen: 19.07 ug/l

RT: 3.01 min Scan# 443

Delta R.T. 0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS05

Tot Ion:101 Resp: 232495

Ion Ratio Lower Upper

101 100

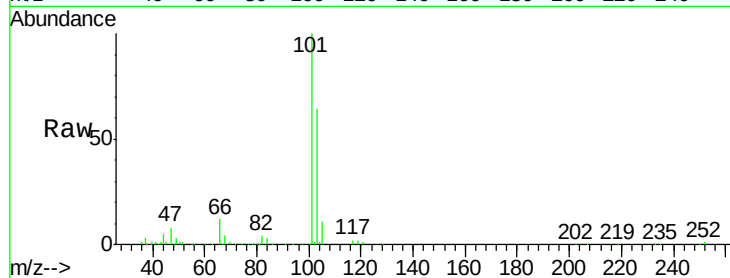
103 64.4 52.8 79.2

Manual Integrations

APPROVED

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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

120000

100000

80000

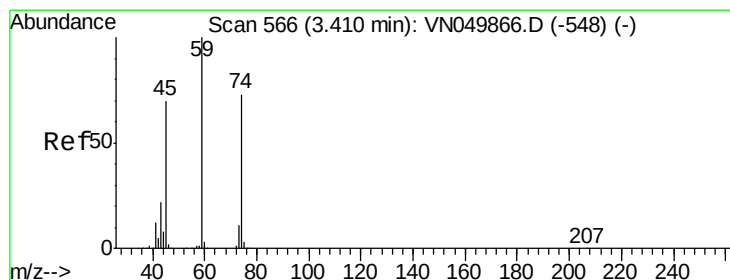
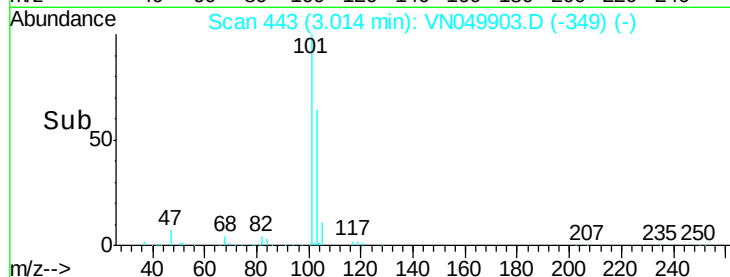
60000

40000

20000

0

Time--> 2.90 2.95 3.00 3.05 3.10



#8

Diethyl Ether

Concen: 19.84 ug/l

RT: 3.41 min Scan# 566

Delta R.T. -0.00 min

Lab File: VN049903.D

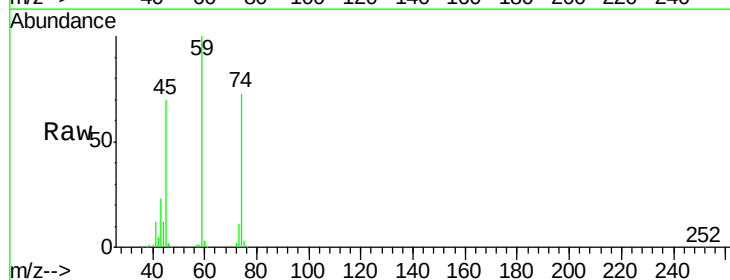
Acq: 19 Jul 2018 5:18

Tgt Ion: 74 Resp: 84382

Ion Ratio Lower Upper

74 100

45 97.7 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

3.41

40000

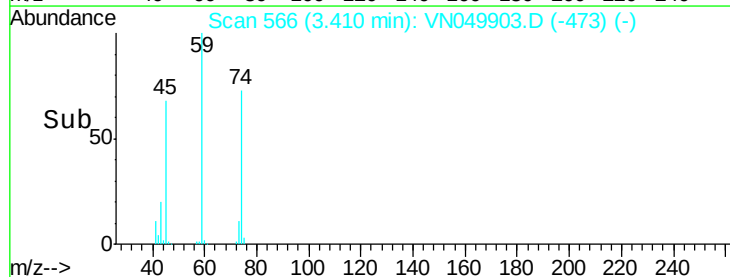
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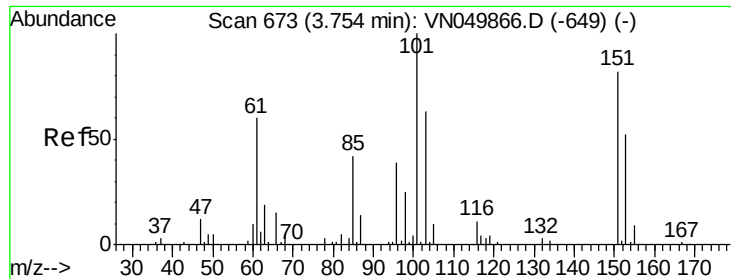
20000

10000

0

Time--> 3.30 3.35 3.40 3.45 3.50





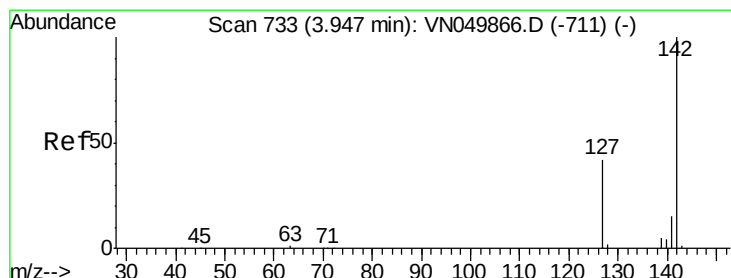
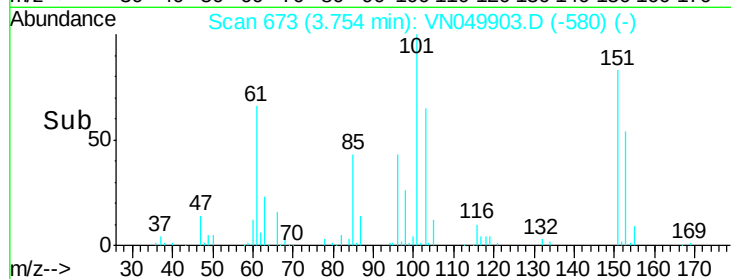
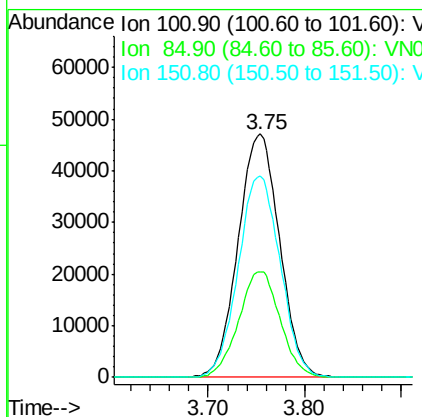
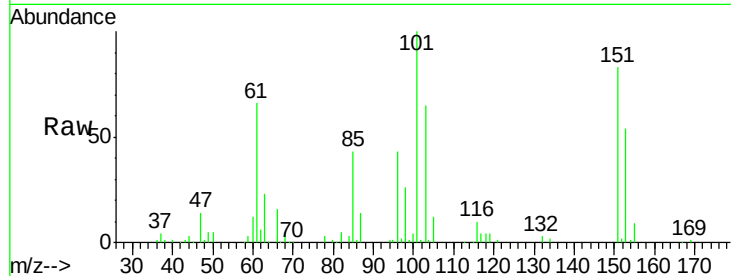
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.70 ug/l
RT: 3.75 min Scan# 673
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	Ratio	Resp	Lower	Upper
101	100	140572		
85	43.3		34.4	51.6
151	83.7		66.2	99.4

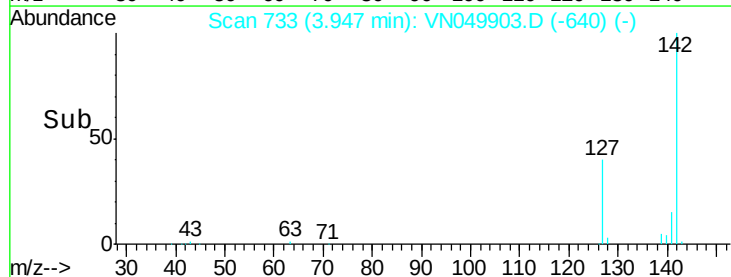
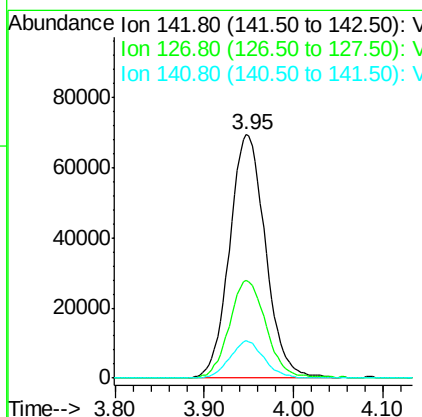
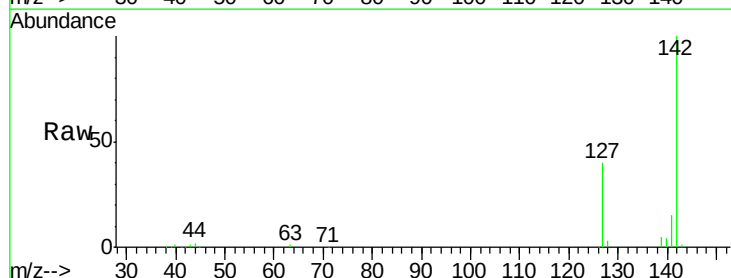
Manual Integrations
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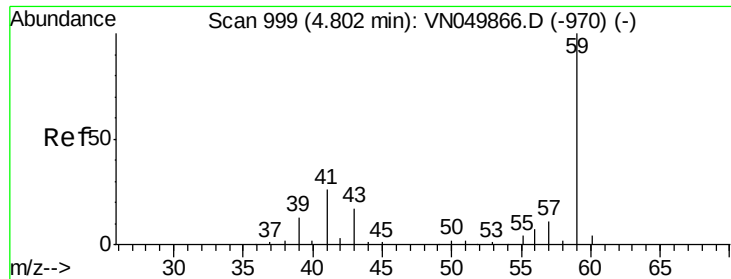
MMDadoda
7/19/2018 4:29:02 PM



#10
Methyl Iodide
Concen: 19.23 ug/l
RT: 3.95 min Scan# 733
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	193918		
127	40.9		32.5	48.7
141	14.5		11.1	16.7





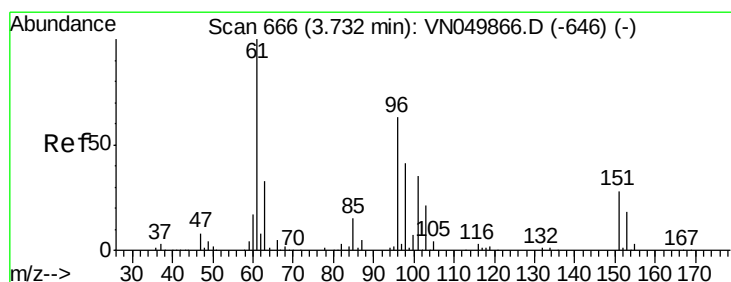
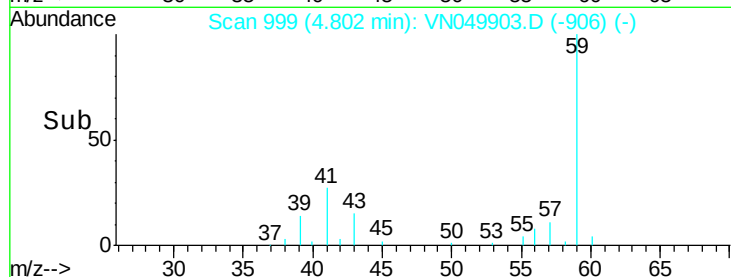
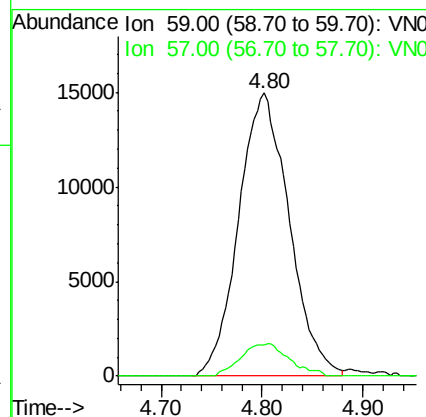
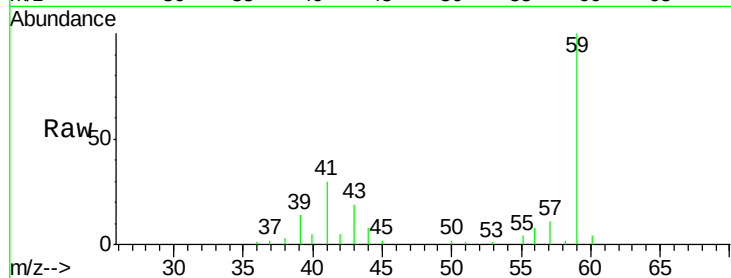
#11
Tert butyl alcohol
Concen: 87.16 ug/l
RT: 4.80 min Scan# 999
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.5	12.7

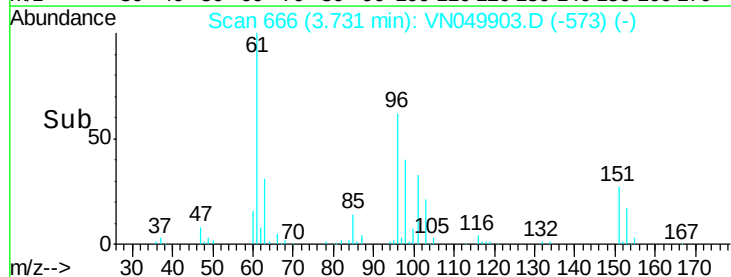
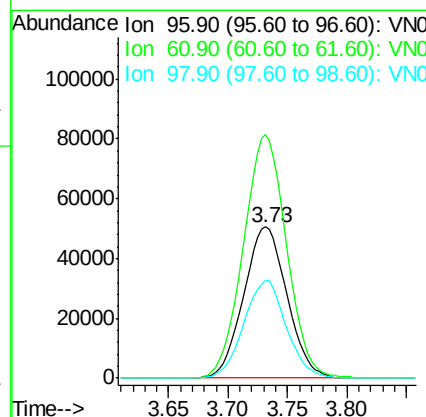
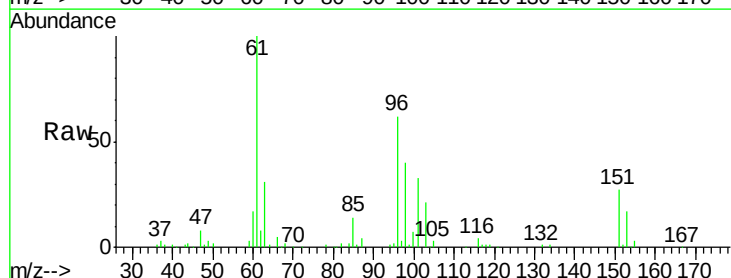
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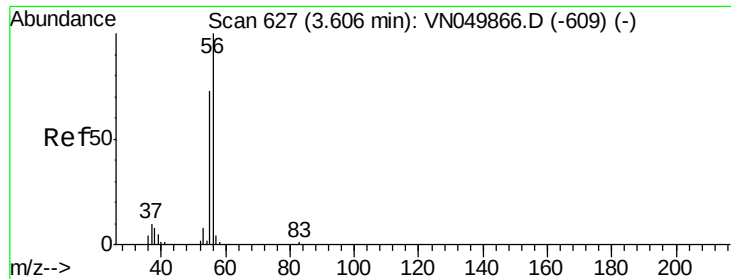
MMDadoda
7/19/2018 4:29:02 PM



#12
1,1-Dichloroethene
Concen: 19.28 ug/l
RT: 3.73 min Scan# 666
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.9	126.5	189.7
98	64.8	51.0	76.6





#13

Acrolein

Concen: 87.45 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS05

Tot Ion: 56 Resp: 33608

Ion Ratio Lower Upper

56 100

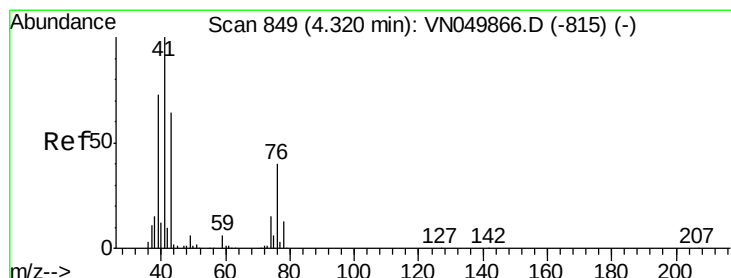
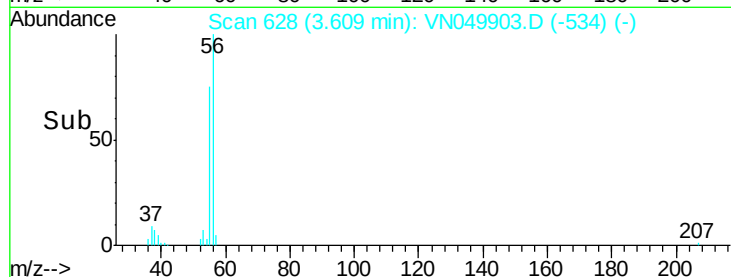
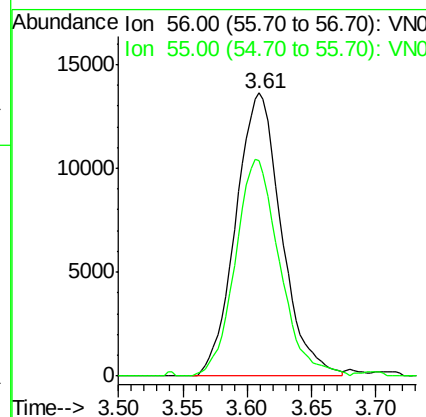
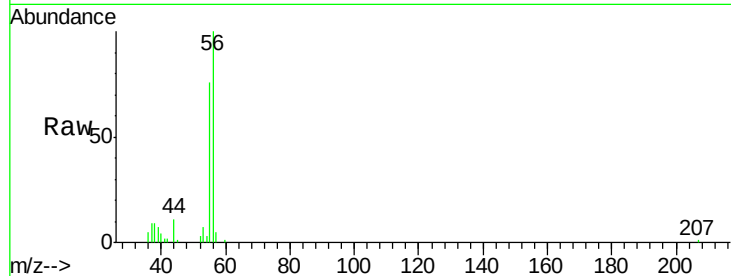
55 74.3 55.8 83.8

Manual Integrations

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#14

Allyl chloride

Concen: 19.32 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

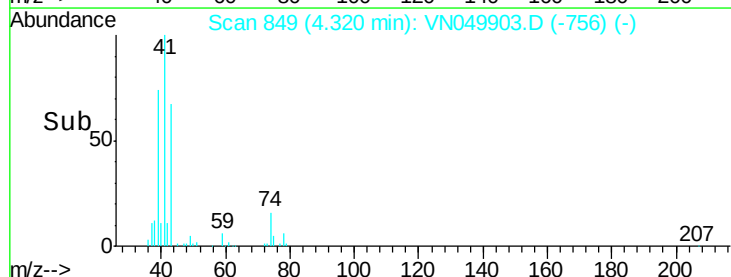
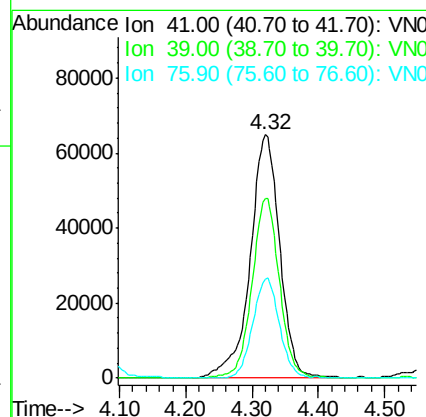
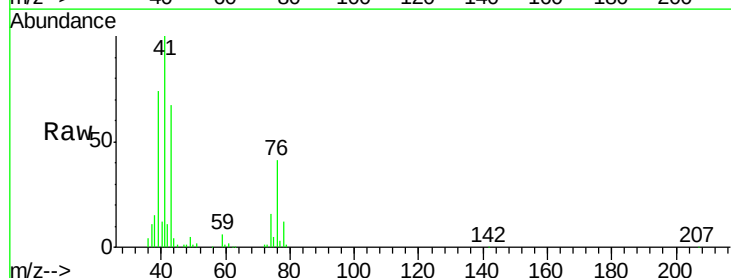
Tgt Ion: 41 Resp: 201159

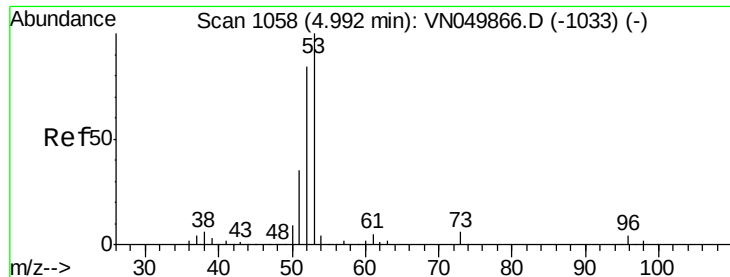
Ion Ratio Lower Upper

41 100

39 68.4 53.2 79.8

76 36.2 29.0 43.6





#15

Acrylonitrile

Concen: 93.35 ug/l

RT: 4.99 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

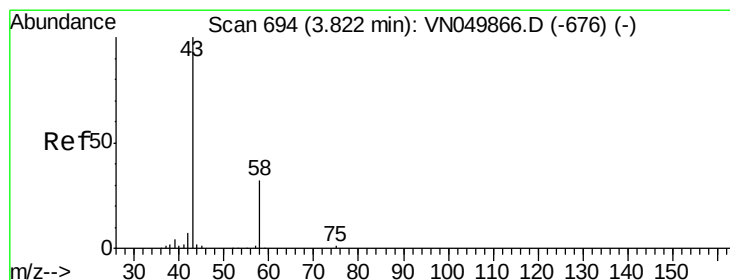
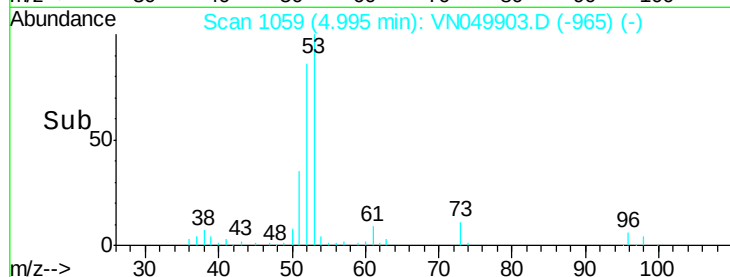
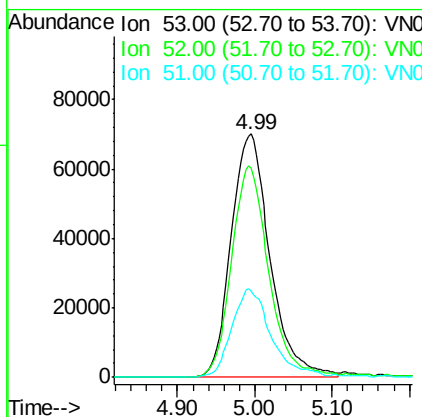
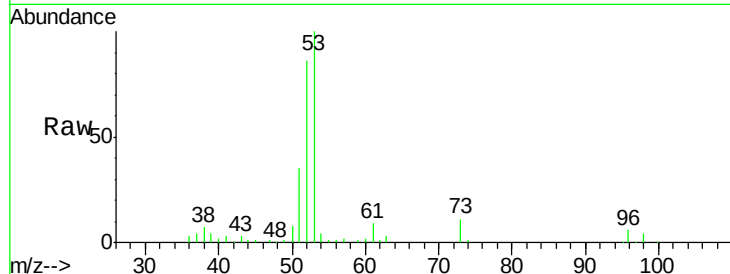
ClientSampleId :

VN0718WBS05

Tot Ion:	53	Resp:	244873
Ion	Ratio	Lower	Upper
53	100		
52	82.9	64.8	97.2
51	36.7	28.9	43.3

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#16

Acetone

Concen: 82.31 ug/l

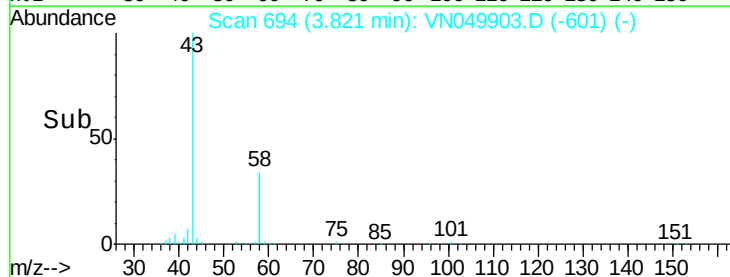
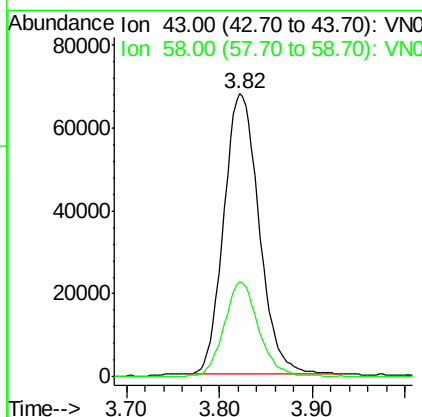
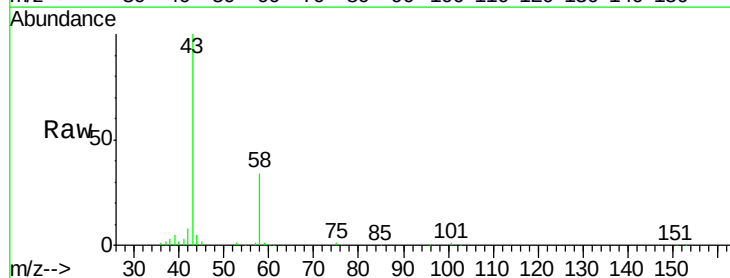
RT: 3.82 min Scan# 694

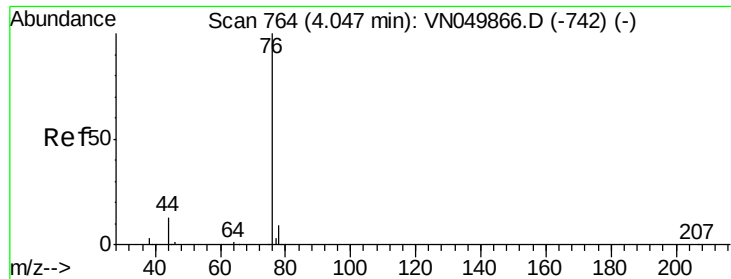
Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Tgt Ion:	43	Resp:	178418
Ion	Ratio	Lower	Upper
43	100		
58	33.8	25.9	38.9





#17

Carbon Disulfide

Concen: 18.21 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS05

Tot Ion: 76 Resp: 359751

Ion Ratio Lower Upper

76 100

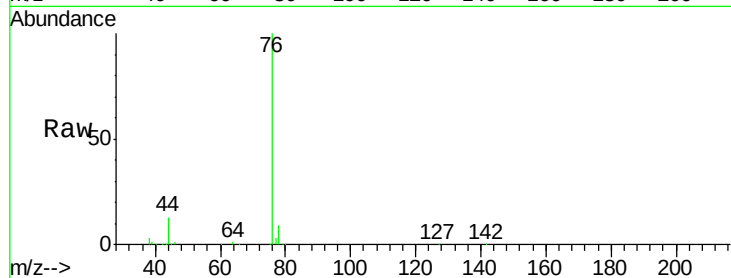
78 9.2 7.1 10.7

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Abundance Ion 75.90 (75.60 to 76.60): VN049903.D (-671) (-)

Ion 77.90 (77.60 to 78.60): VN049903.D (-671) (-)

4.05

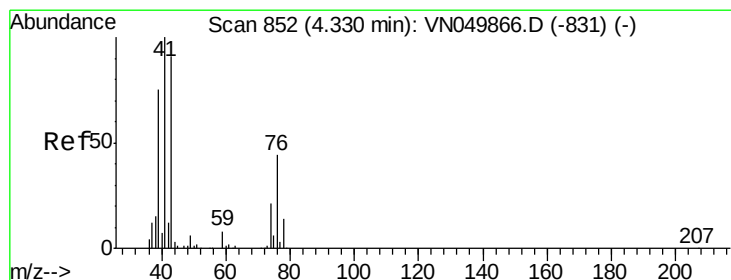
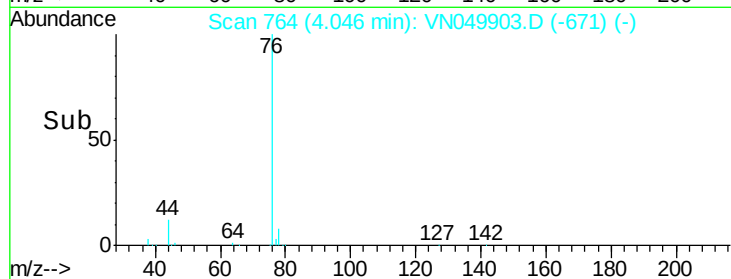
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 20.86 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN049903.D

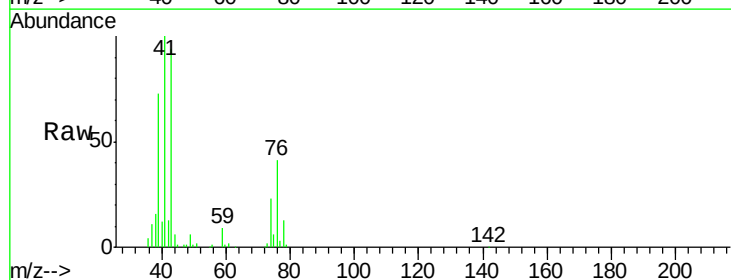
Acq: 19 Jul 2018 5:18

Tgt Ion: 43 Resp: 145358

Ion Ratio Lower Upper

43 100

74 24.2 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN049903.D (-759) (-)

Ion 74.00 (73.70 to 74.70): VN049903.D (-759) (-)

4.33

50000

40000

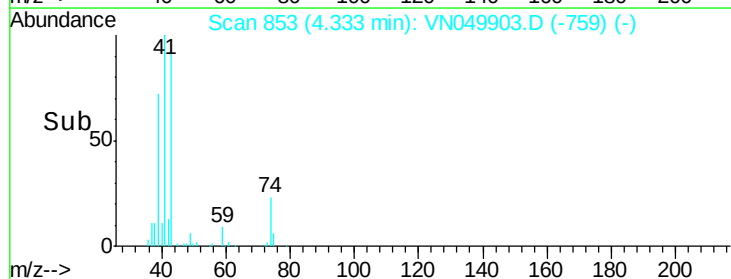
30000

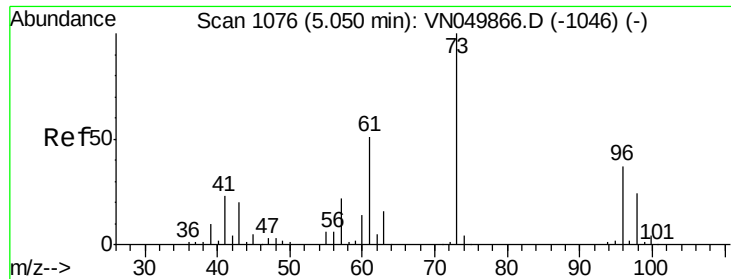
20000

10000

0

Time-->





#19

Methyl tert-butyl Ether

Concen: 20.40 ug/l

RT: 5.05 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS05

Tot Ion: 73 Resp: 370601

Ion Ratio Lower Upper

73 100

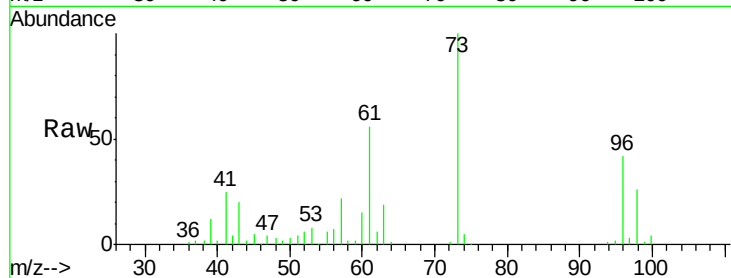
57 22.0 18.1 27.1

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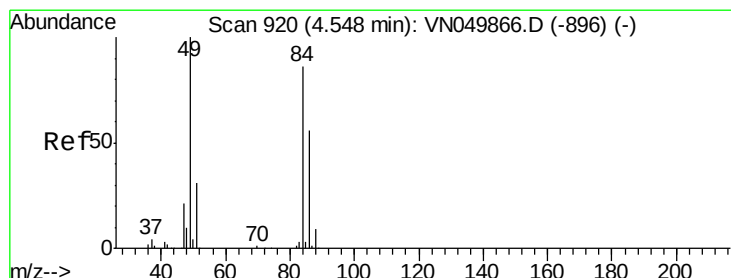
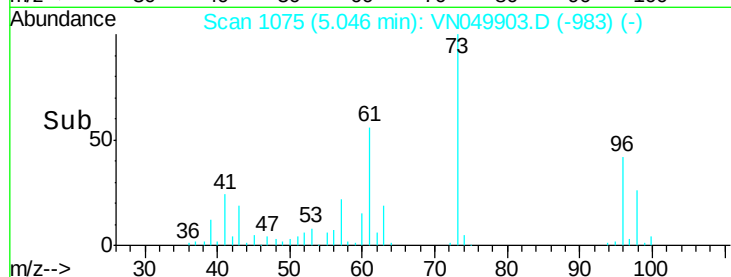
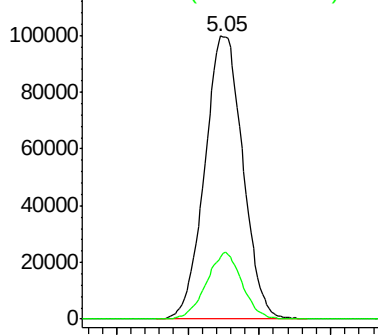
MMDadoda

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Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#20

Methylene Chloride

Concen: 18.63 ug/l

RT: 4.55 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Tgt Ion: 84 Resp: 153602

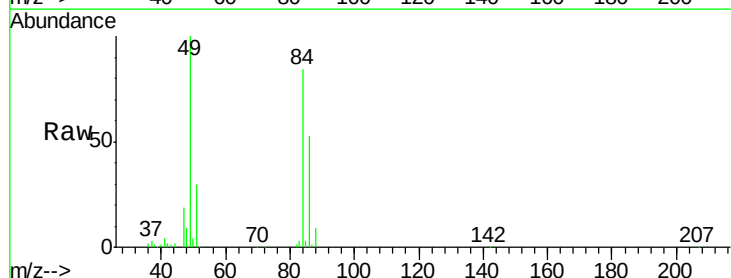
Ion Ratio Lower Upper

84 100

49 118.6 95.4 143.2

51 35.6 28.4 42.6

86 63.0 52.6 79.0

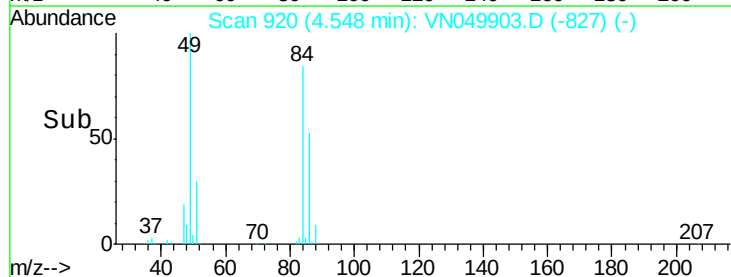
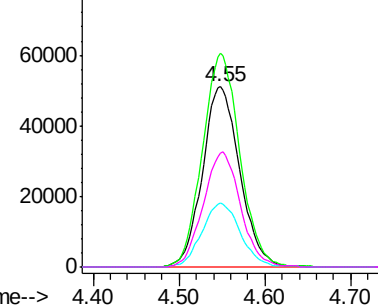


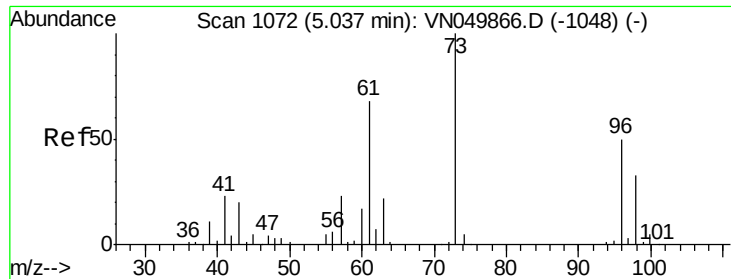
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0





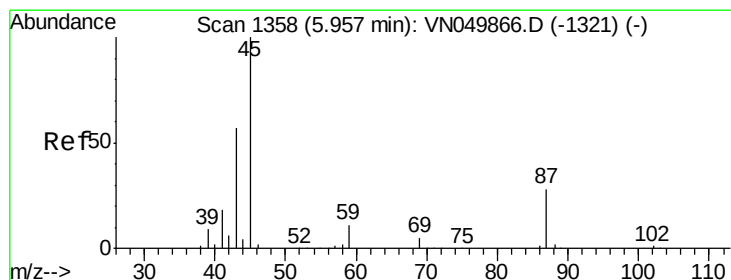
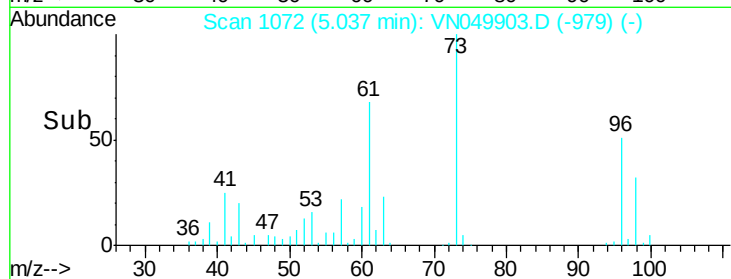
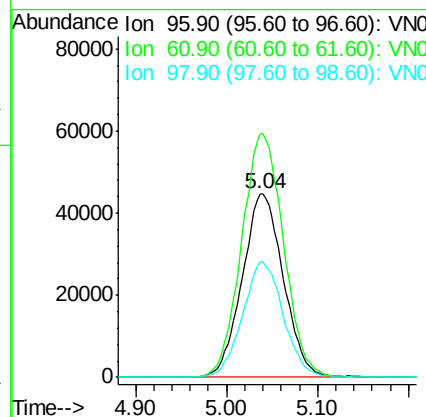
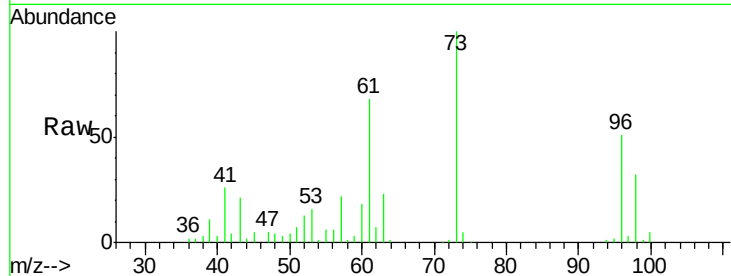
#21
trans-1,2-Dichloroethene
Concen: 19.99 ug/l
RT: 5.04 min Scan# 1072
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.6	109.0	163.6
98	63.2	51.1	76.7

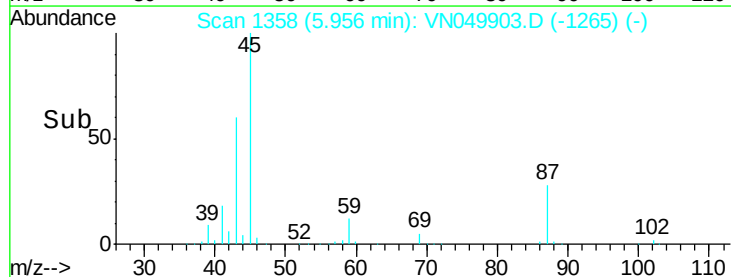
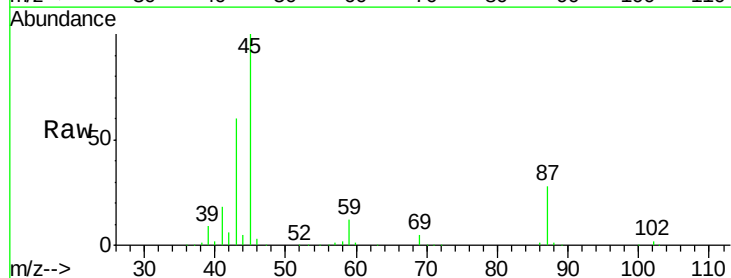
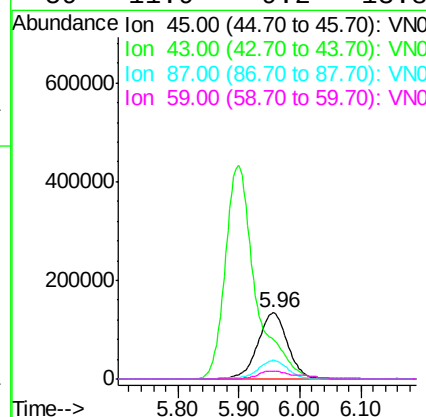
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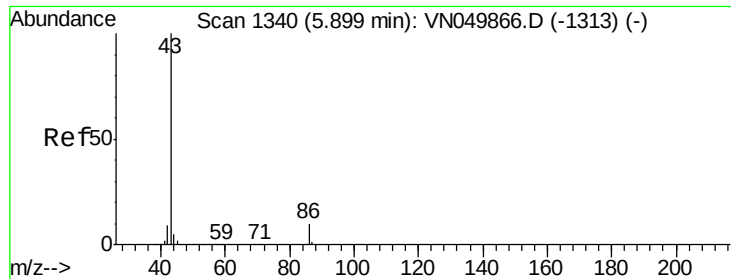
MMDadoda
7/19/2018 4:29:02 PM



#22
Diisopropyl ether
Concen: 21.41 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.5	48.1	72.1
87	28.2	22.6	34.0
59	11.9	9.2	13.8





#23

Vinyl Acetate

Concen: 99.92 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleID :

VN0718WBS05

Tot Ion: 43 Resp: 1489348

Ion Ratio Lower Upper

43 100

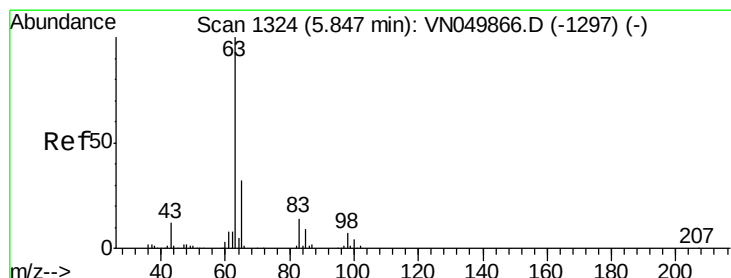
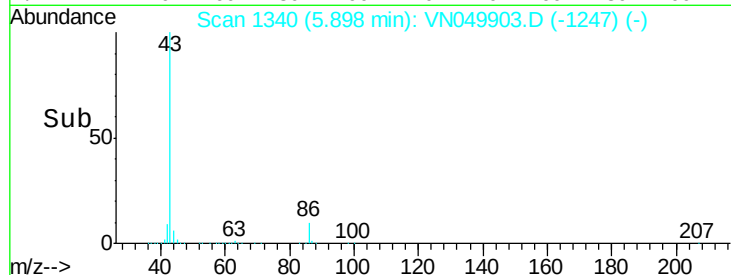
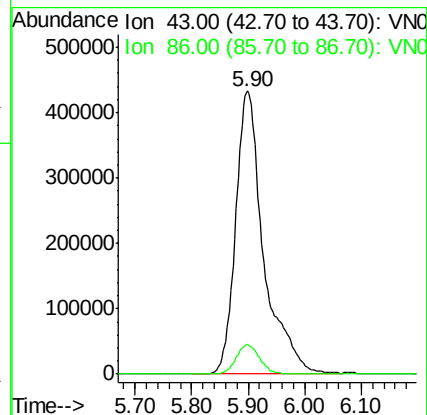
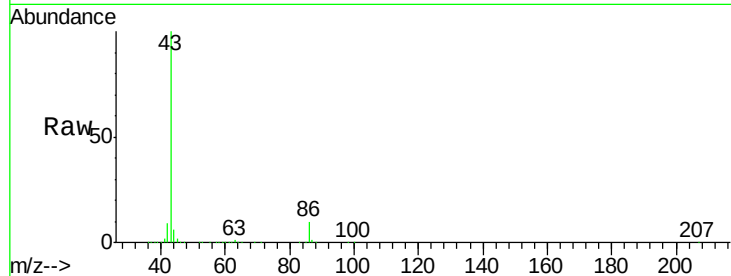
86 10.4 8.4 12.6

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 19.95 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

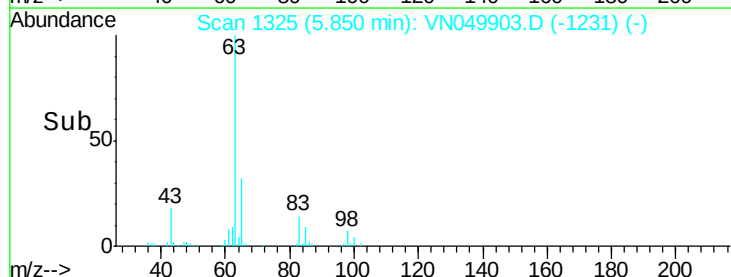
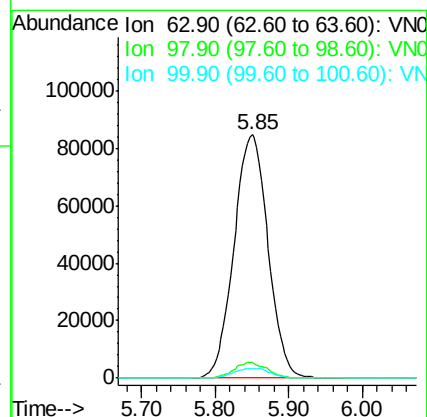
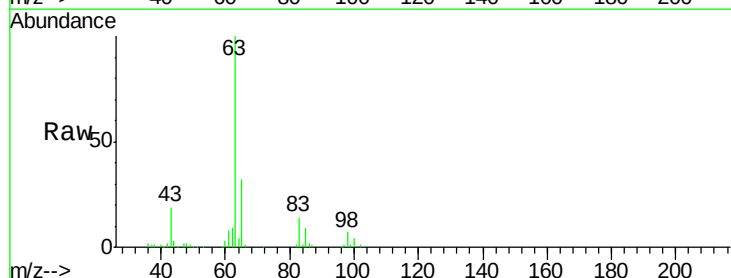
Tgt Ion: 63 Resp: 272131

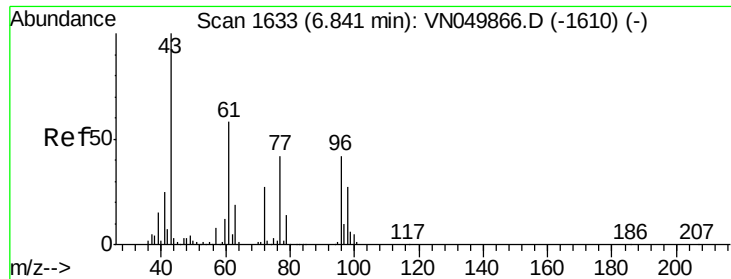
Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.2

100 3.9 2.2 6.6





#25

2-Butanone

Concen: 90.43 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampled :

VN0718WBS05

Tot Ion: 43 Resp: 280149

Ion Ratio Lower Upper

43 100

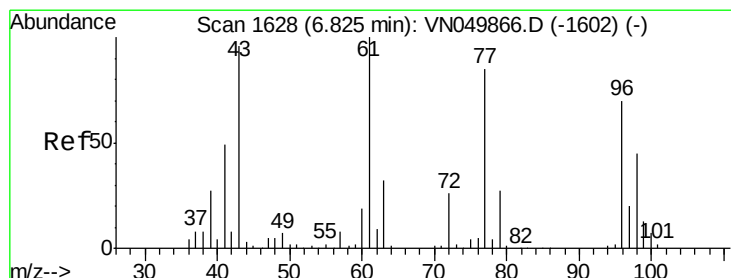
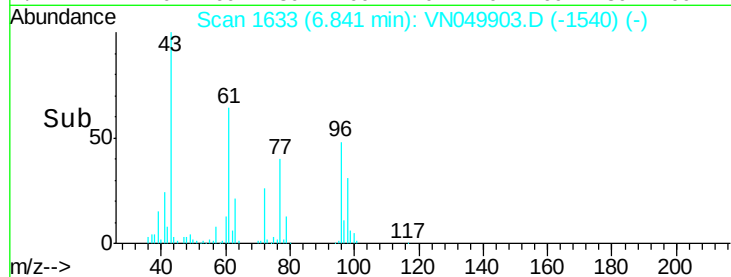
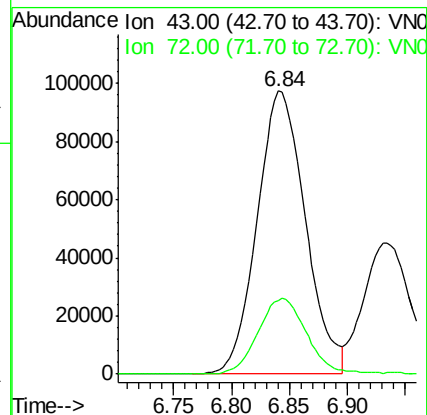
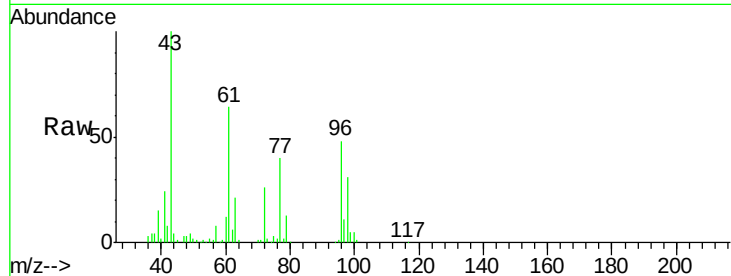
72 26.2 22.1 33.1

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 15.65 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN049903.D

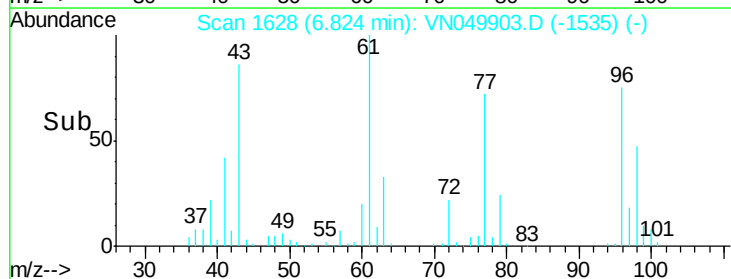
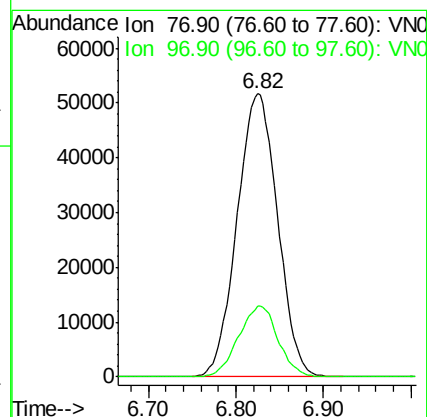
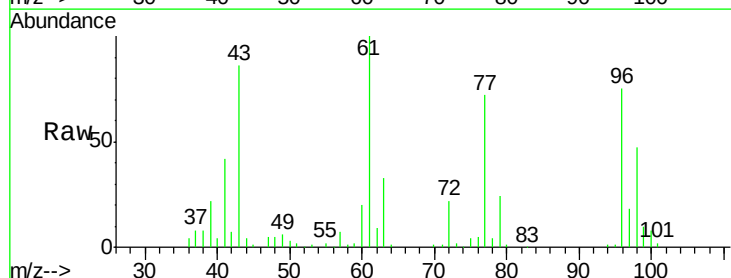
Acq: 19 Jul 2018 5:18

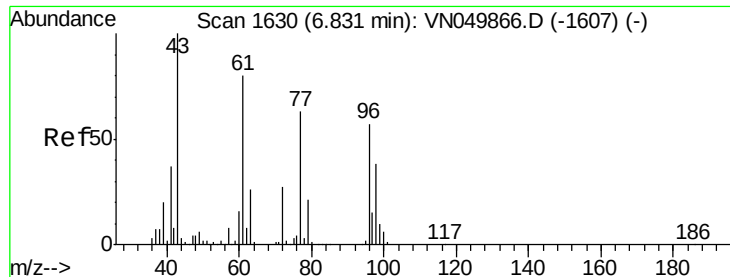
Tgt Ion: 77 Resp: 166020

Ion Ratio Lower Upper

77 100

97 24.3 11.9 35.5





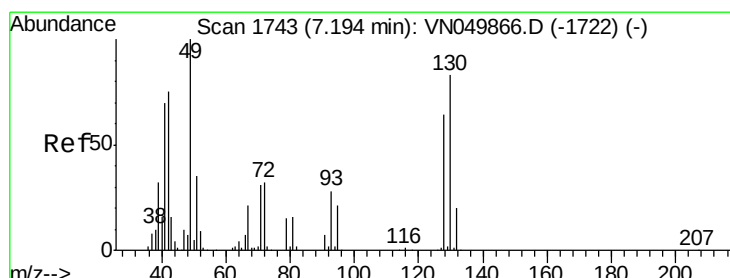
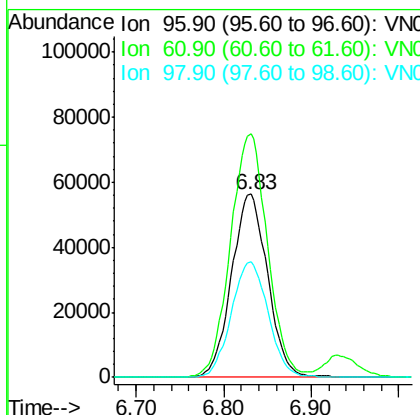
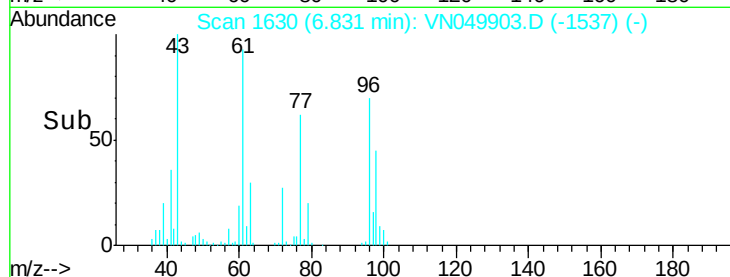
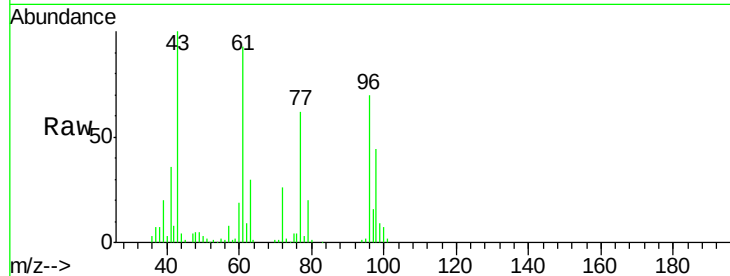
#27
 cis-1,2-Dichloroethene
 Concen: 20.96 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.3	0.0	289.0
98	64.4	0.0	130.2

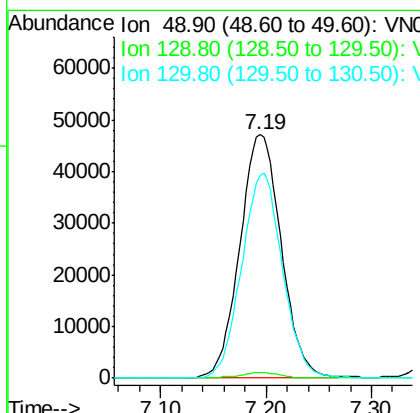
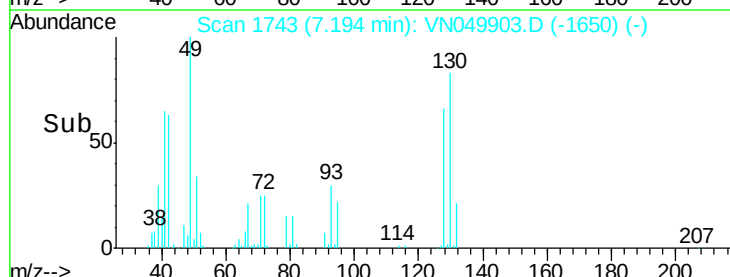
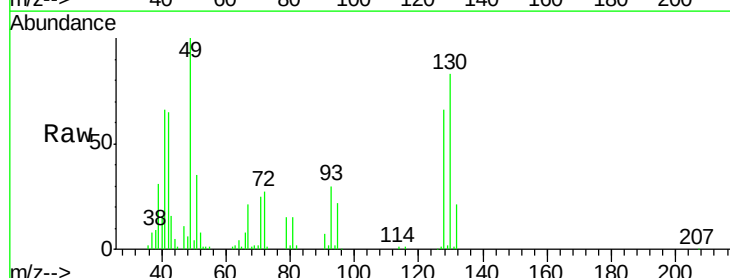
Manual Integrations
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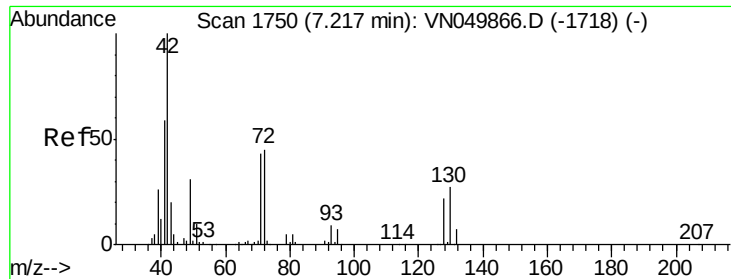
MMDadoda
 7/19/2018 4:29:02 PM



#28
 Bromochloromethane
 Concen: 20.90 ug/l
 RT: 7.19 min Scan# 1743
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	83.0	65.5	98.3





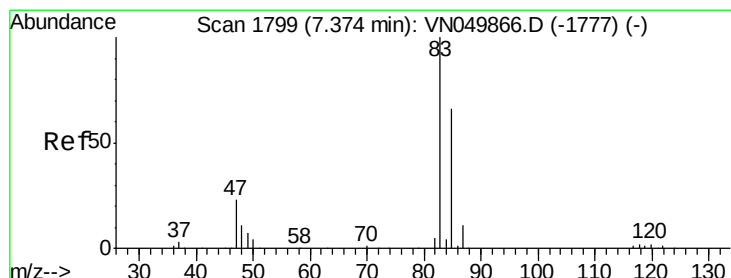
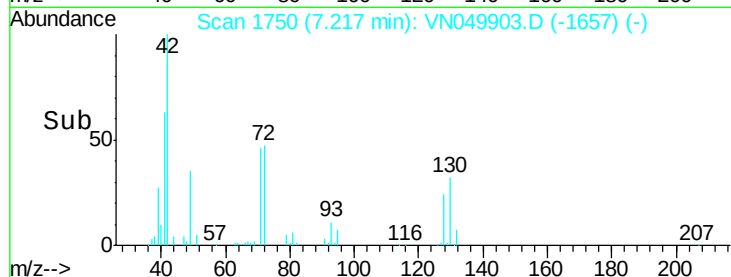
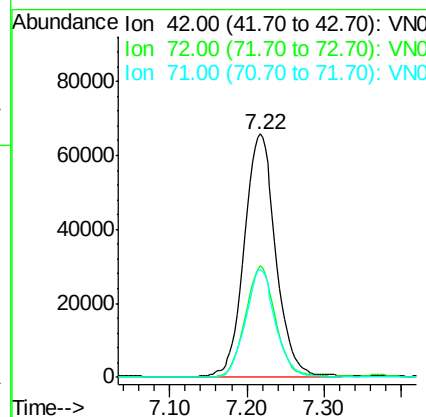
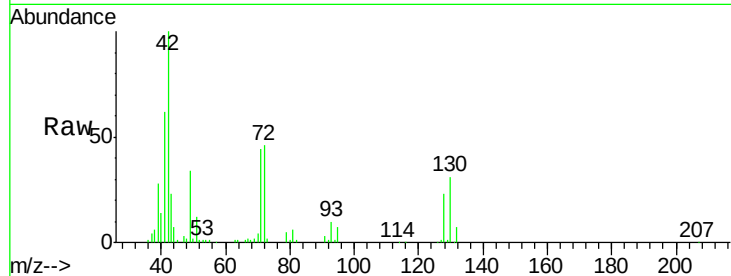
#29
Tetrahydrofuran
Concen: 95.04 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.5	35.6	53.4
71	42.2	34.0	51.0

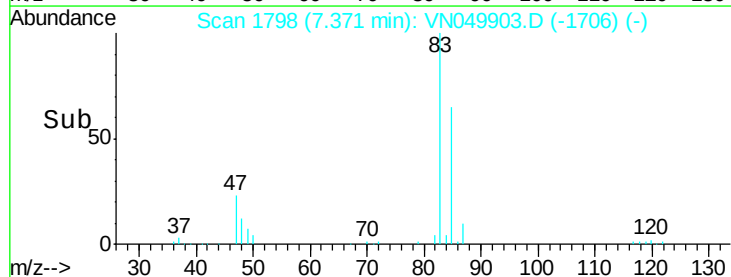
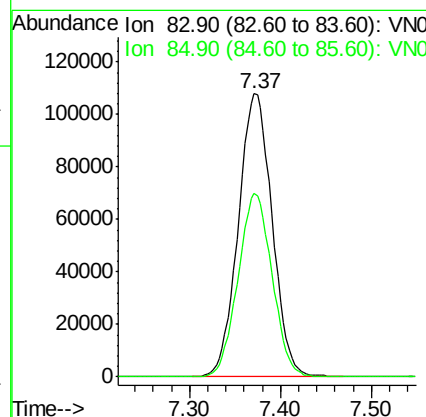
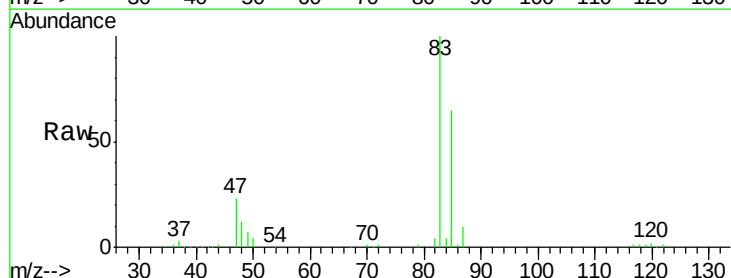
Manual Integrations
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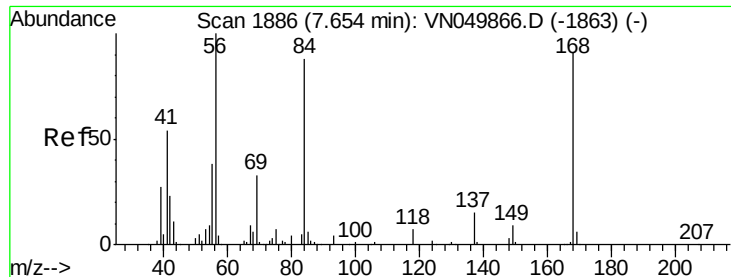
MMDadoda
7/19/2018 4:29:02 PM



#30
Chloroform
Concen: 19.90 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.4	77.2





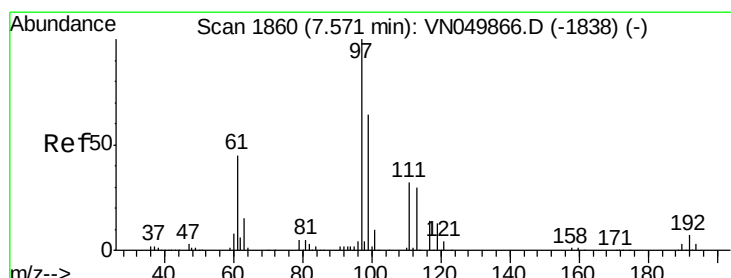
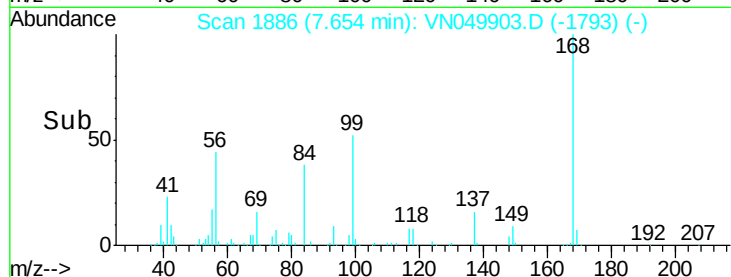
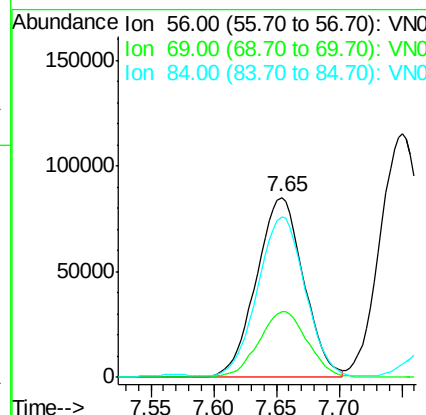
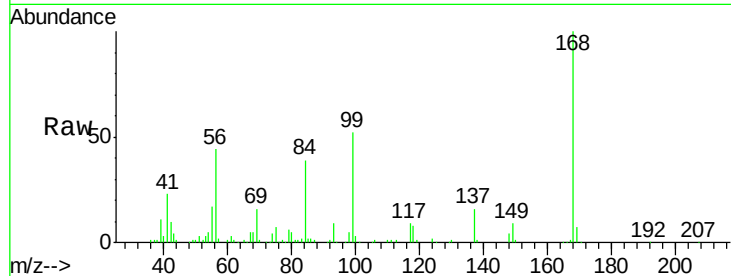
#31
Cyclohexane
Concen: 20.11 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.4	26.6	40.0
84	88.4	69.0	103.6

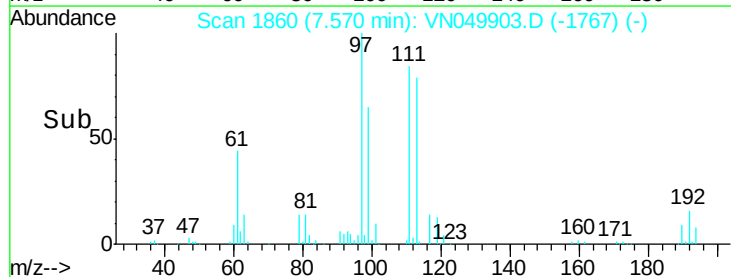
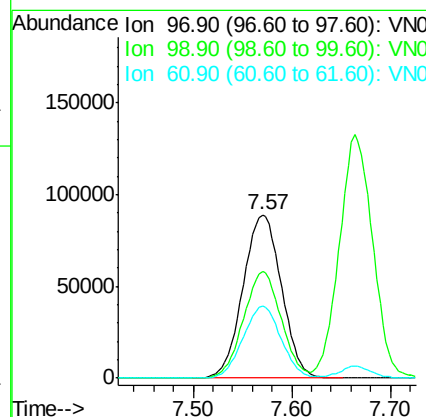
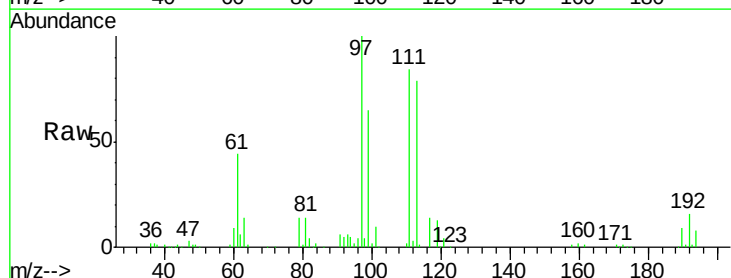
Manual Integrations
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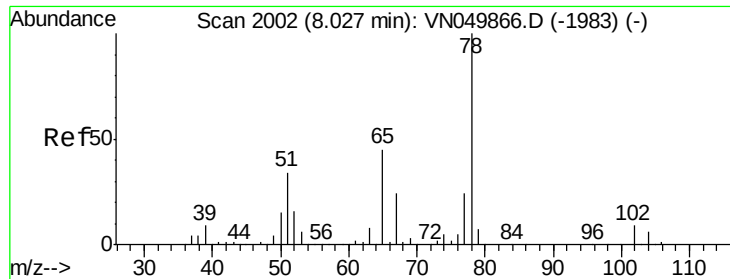
MMDadoda
7/19/2018 4:29:02 PM



#32
1,1,1-Trichloroethane
Concen: 19.85 ug/l
RT: 7.57 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.0	76.4
61	43.7	35.5	53.3





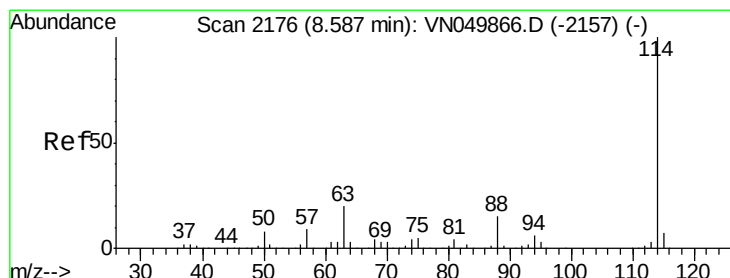
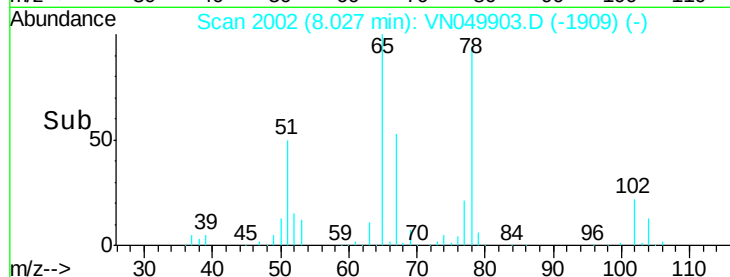
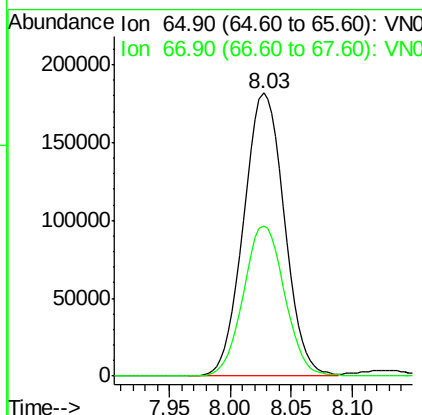
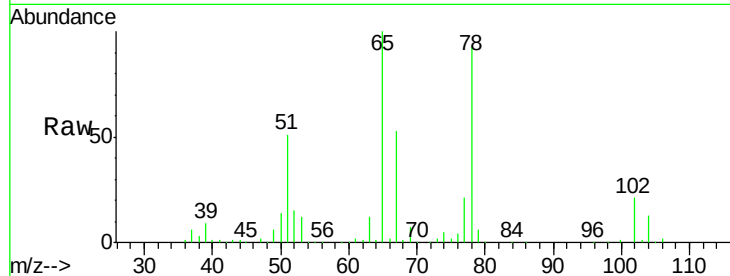
#33
 1,2-Dichloroethane-d4
 Concen: 50.30 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Tot Ion	Ratio	Resp	Lower	Upper
65	100	421116		
67	53.7	0.0	107.2	

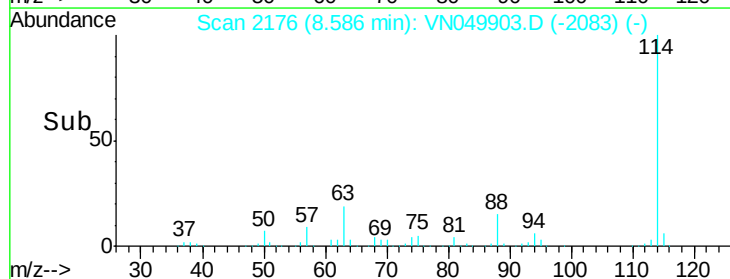
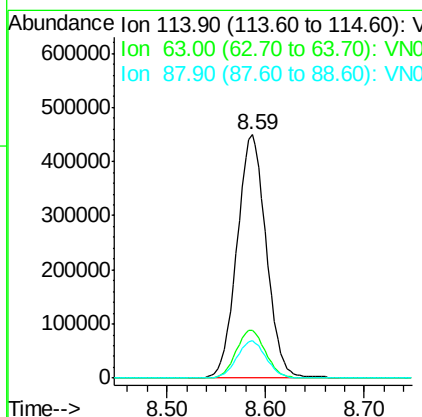
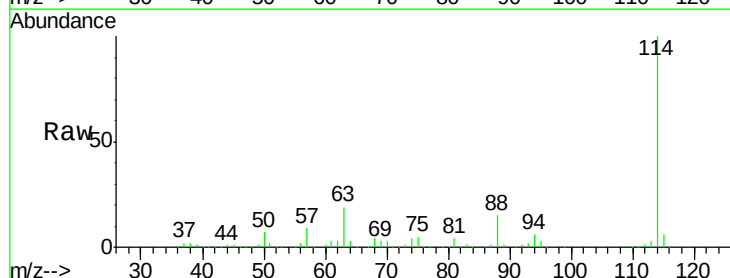
Manual Integrations
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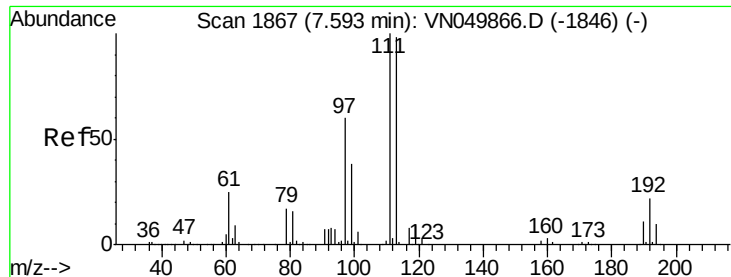
MMDadoda
 7/19/2018 4:29:02 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	922983		
63	19.5	0.0	39.8	
88	15.3	0.0	30.6	





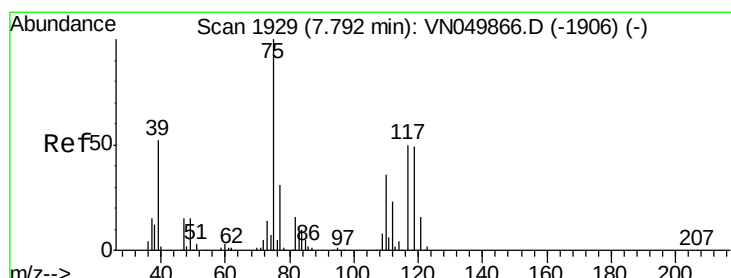
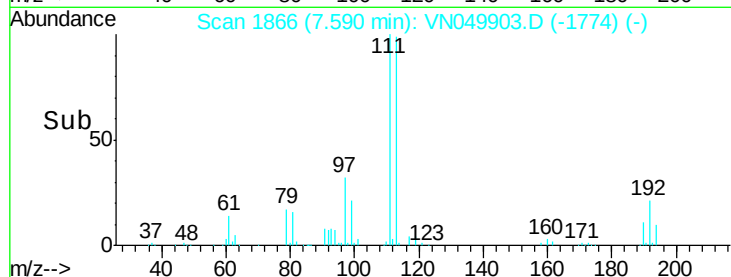
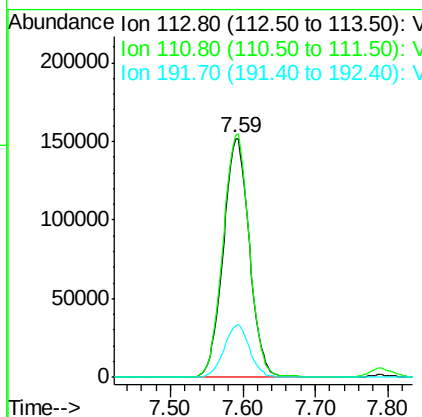
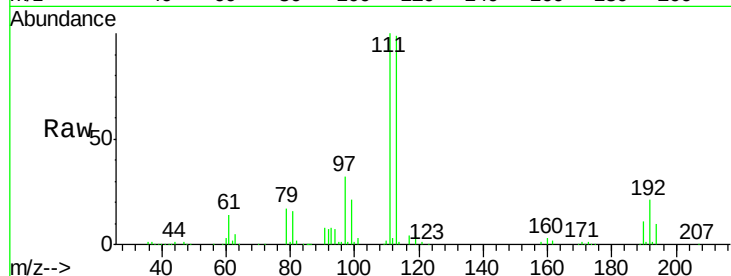
#35
Dibromofluoromethane
Concen: 49.11 ug/l
RT: 7.59 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.0	81.8	122.8	
192	21.5	17.8	26.6	

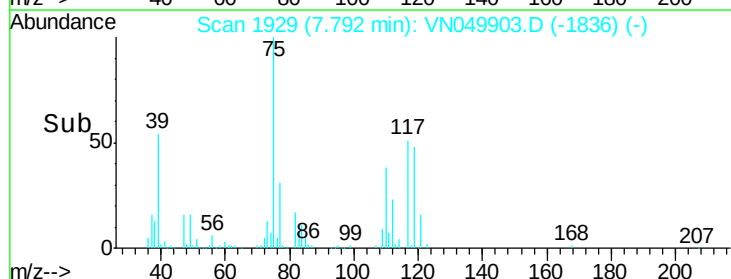
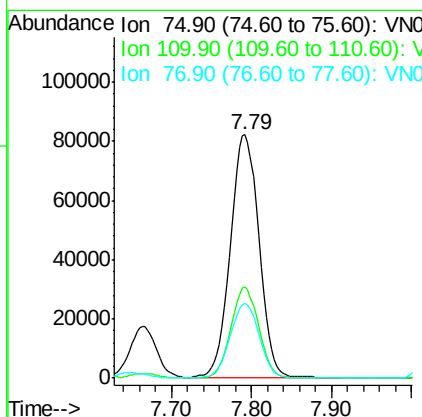
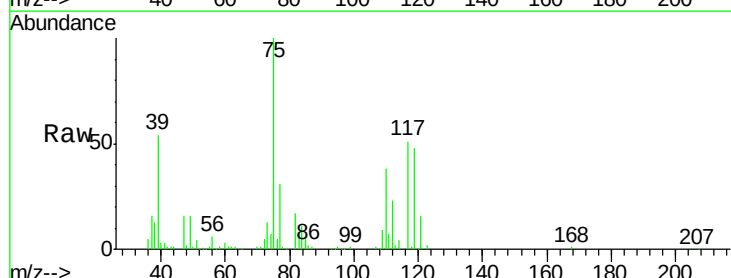
Manual Integrations
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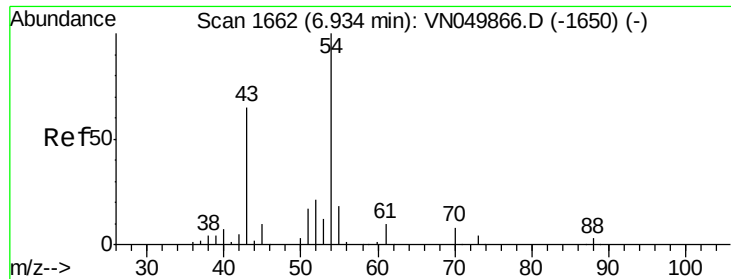
MMDadoda
7/19/2018 4:29:02 PM



#36
1,1-Dichloropropene
Concen: 19.52 ug/l
RT: 7.79 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.1	18.1	54.4	
77	31.0	24.9	37.3	





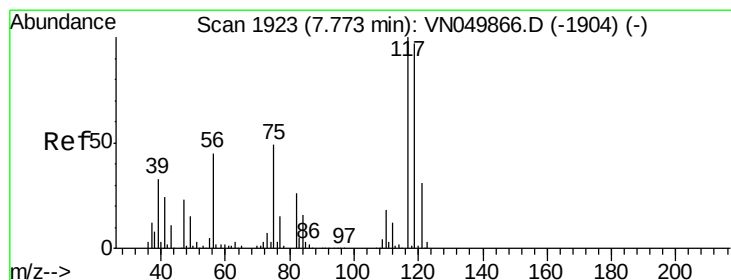
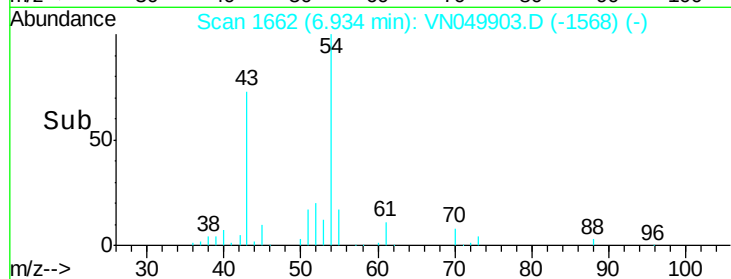
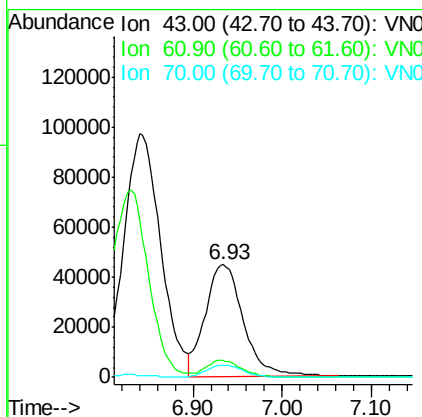
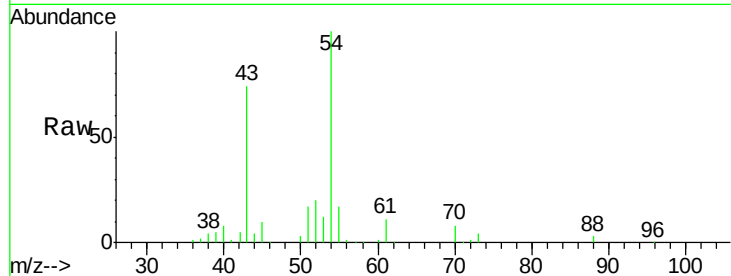
#37
Ethyl Acetate
Concen: 18.68 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.7	17.5
70	10.8	8.4	12.6

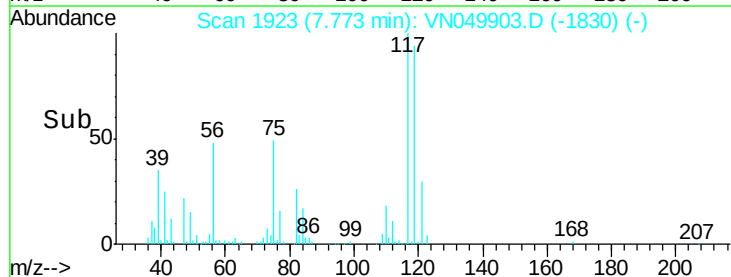
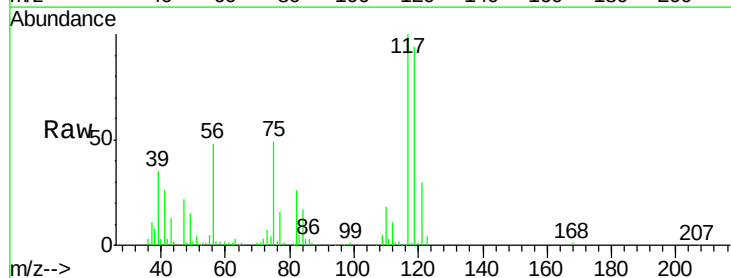
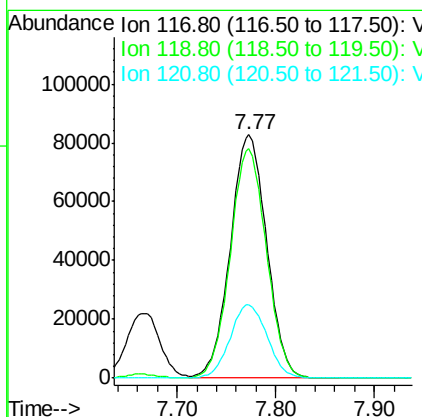
Manual Integrations
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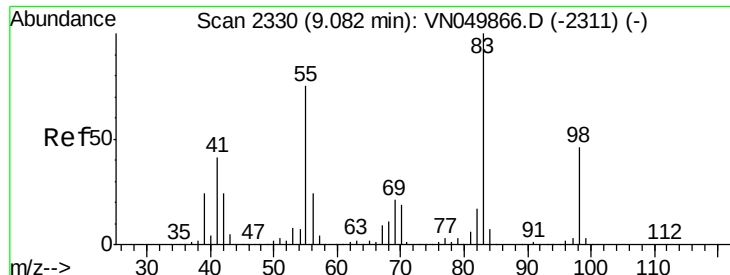
MMDadoda
7/19/2018 4:29:02 PM



#38
Carbon Tetrachloride
Concen: 19.33 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.2	77.2	115.8
121	30.3	25.0	37.6





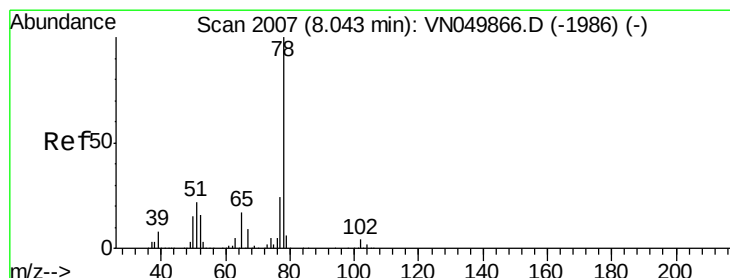
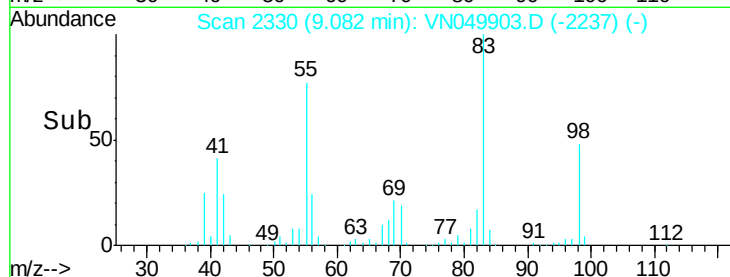
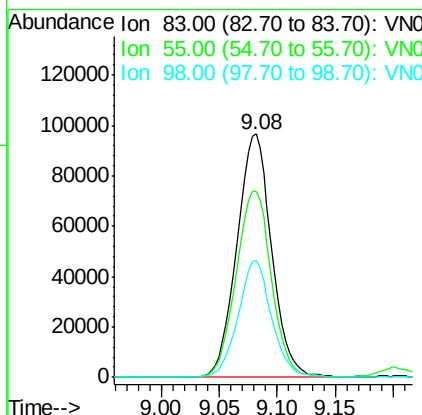
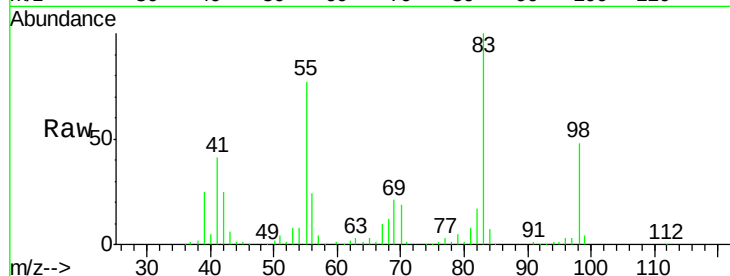
#39
Methylvlcyclohexane
Concen: 18.96 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.7	59.7	89.5
98	47.9	36.5	54.7

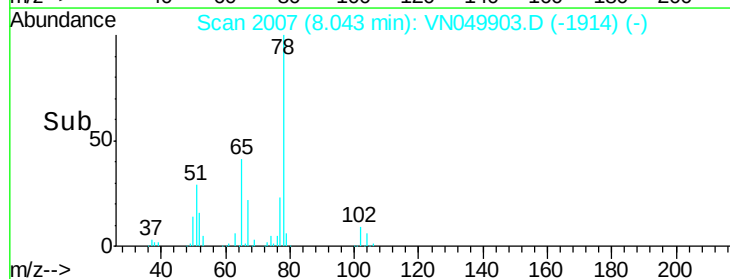
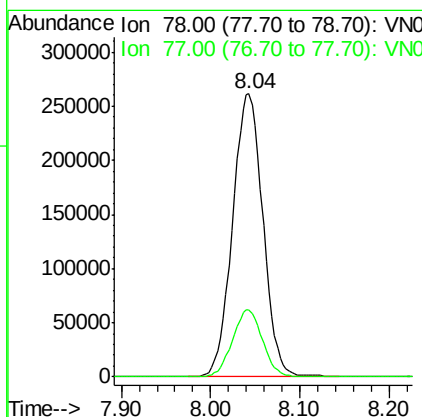
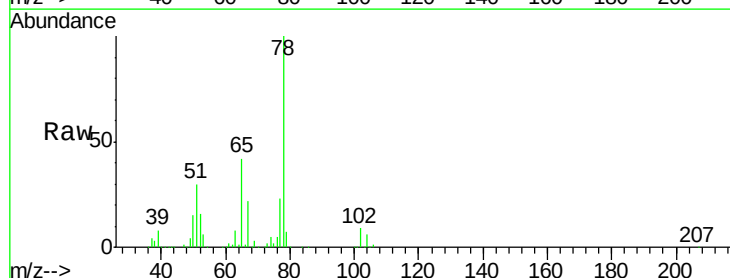
Manual Integrations
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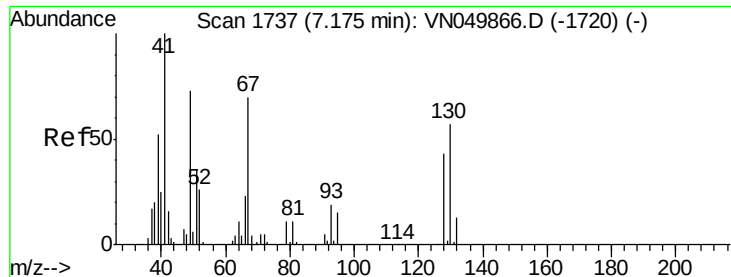
MMDadoda
7/19/2018 4:29:02 PM



#40
Benzene
Concen: 19.75 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4





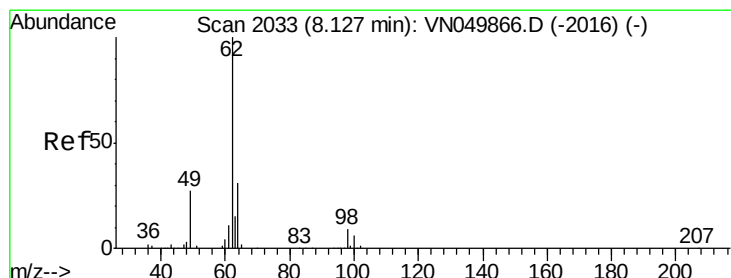
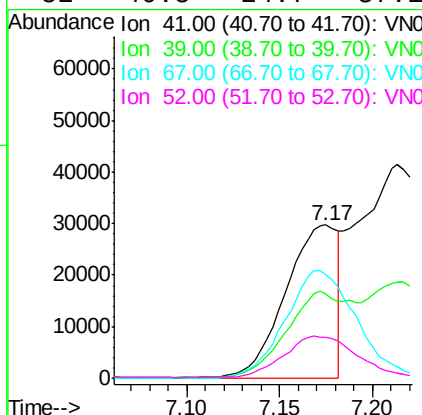
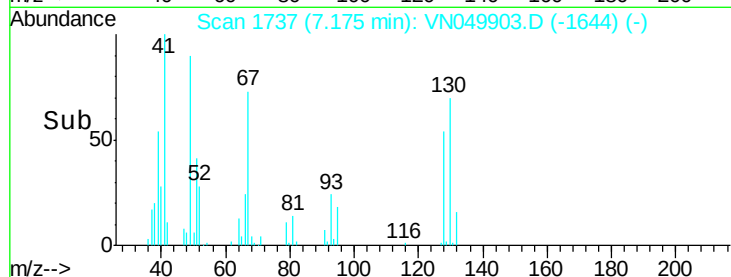
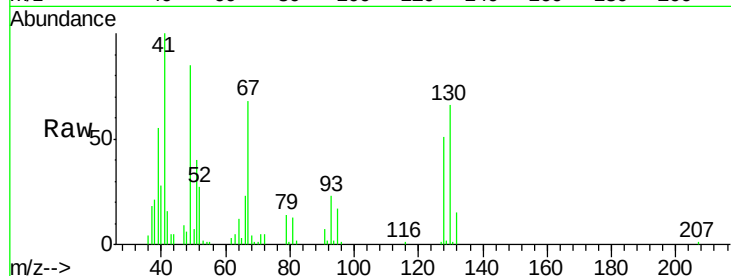
#41
Methacrylonitrile
Concen: 16.50 ug/l
RT: 7.17 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	Ratio	Lower	Upper
41	100		
39	69.7	45.4	68.2#
67	96.8	65.4	98.0
52	40.5	24.7	37.1#

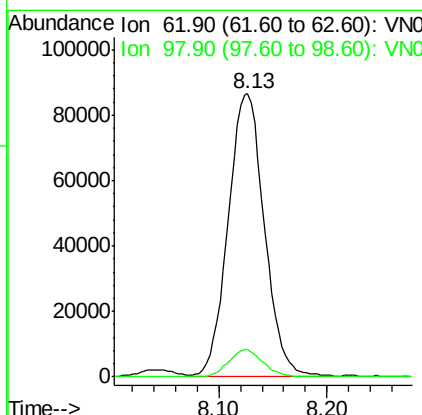
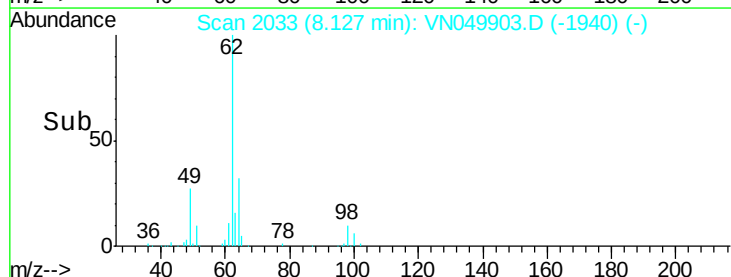
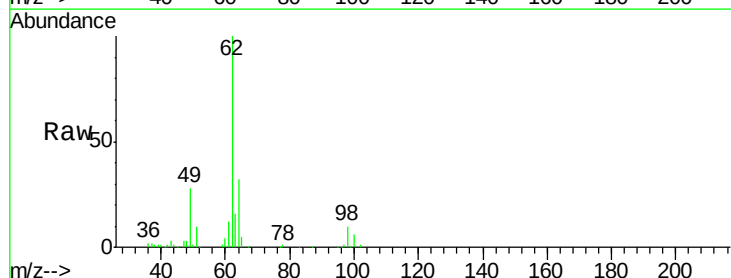
Manual Integrations
APPROVED

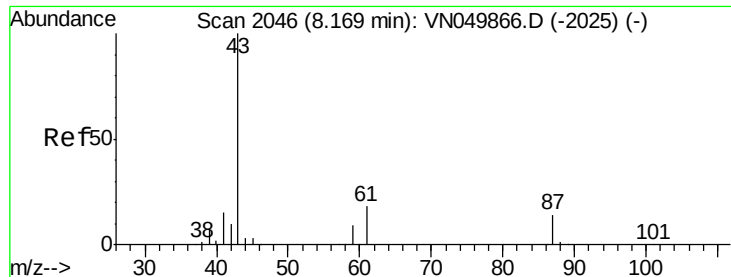
MMDadoda
7/19/2018 4:29:02 PM



#42
1,2-Dichloroethane
Concen: 19.41 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.0





#43

Isopropyl Acetate

Concen: 21.04 ug/l

RT: 8.17 min Scan# 2045

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

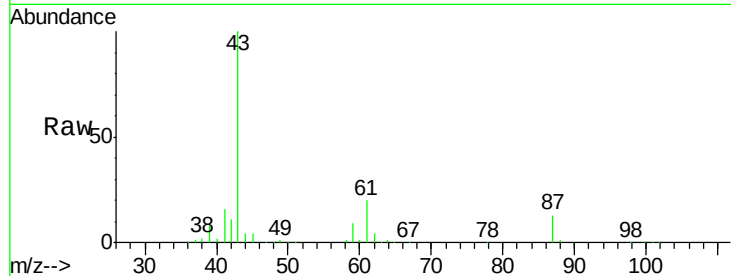
ClientSampleId :

VN0718WBS05

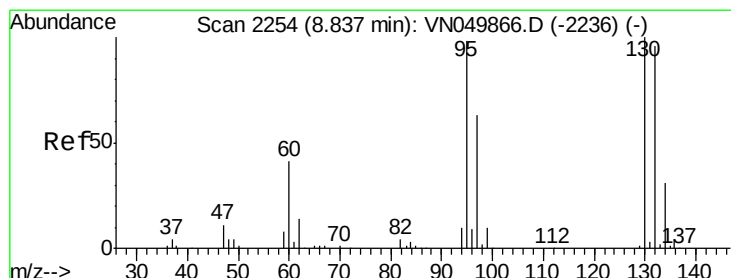
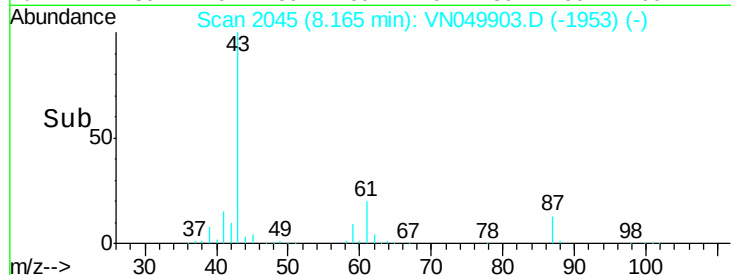
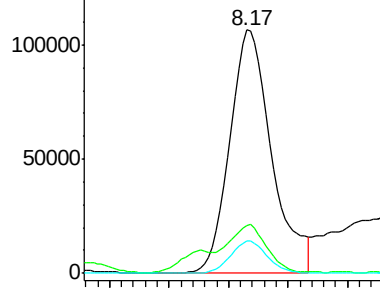
Tot Ion:	43	Resp:	259078
Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.9	22.3
87	11.7	10.0	15.0

Manual Integrations
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Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-2025) (-)



#44

Trichloroethene

Concen: 19.73 ug/l

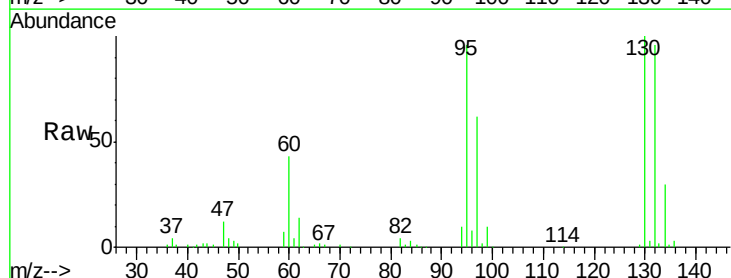
RT: 8.83 min Scan# 2253

Delta R.T. -0.00 min

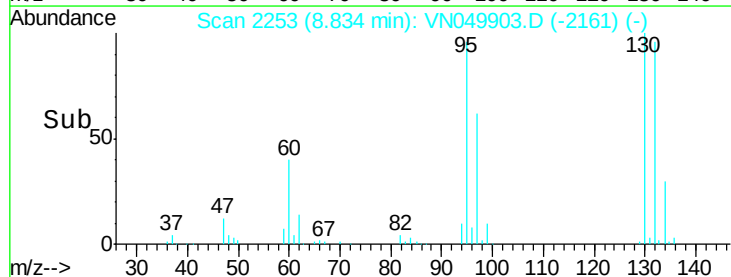
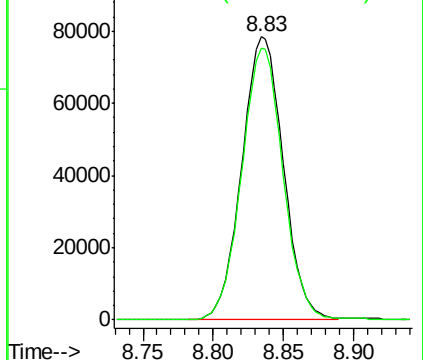
Lab File: VN049903.D

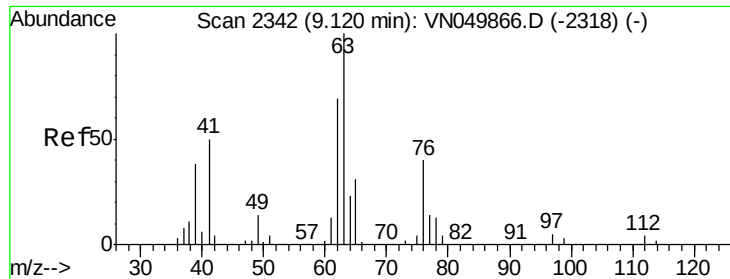
Acq: 19 Jul 2018 5:18

Tgt Ion:	130	Resp:	161817
Ion	Ratio	Lower	Upper
130	100		
95	96.1	0.0	192.8



Abundance Ion 129.80 (129.50 to 130.50): VN049866.D (-2236) (-)





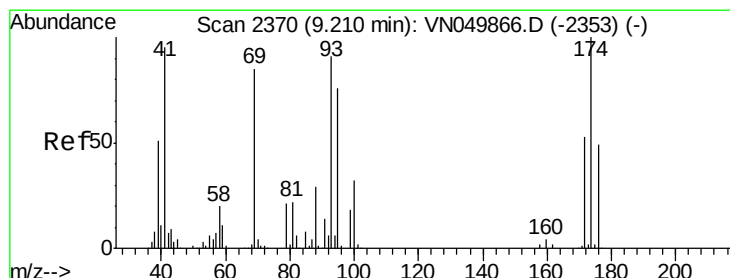
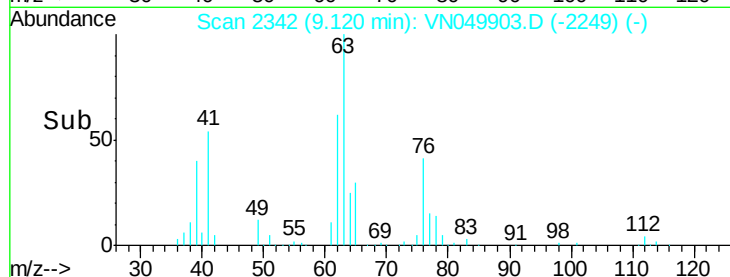
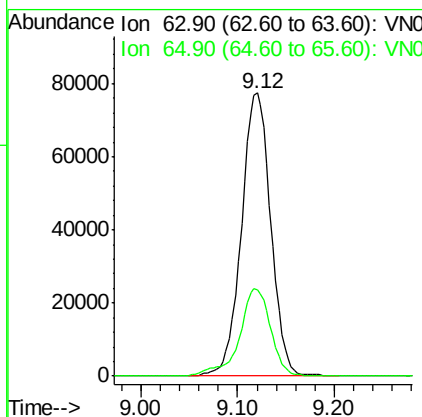
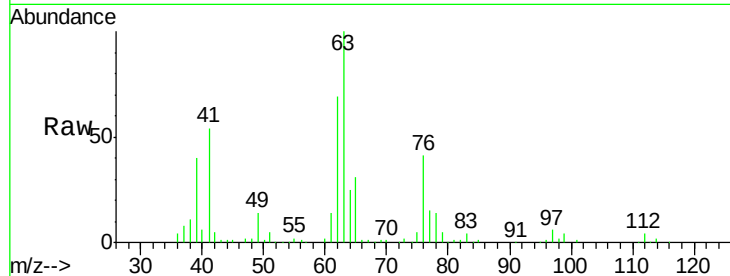
#45
 1,2-Dichloropropane
 Concen: 19.33 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Tot Ion: 63 Resp: 163083
 Ion Ratio Lower Upper
 63 100
 65 30.6 24.7 37.1

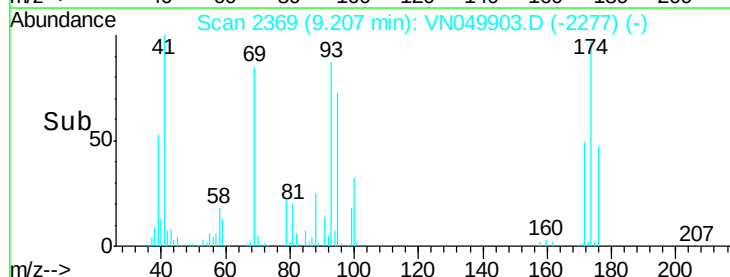
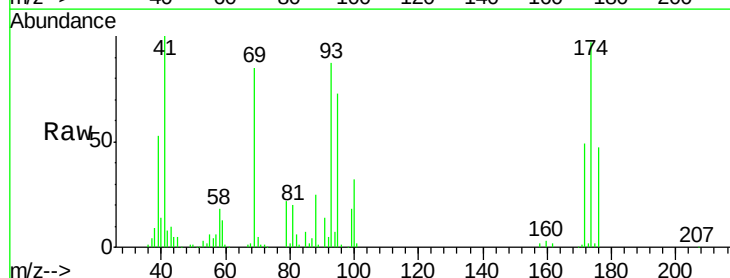
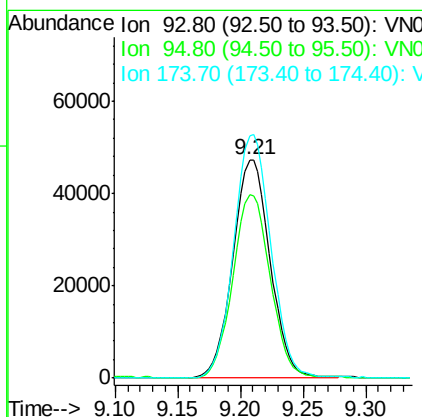
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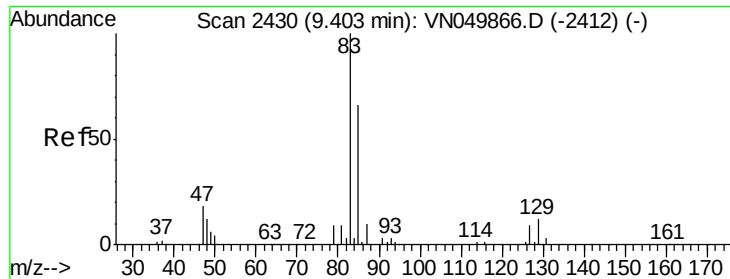
MMDadoda
 7/19/2018 4:29:02 PM



#46
 Dibromomethane
 Concen: 18.77 ug/l
 RT: 9.21 min Scan# 2369
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Tgt Ion: 93 Resp: 98240
 Ion Ratio Lower Upper
 93 100
 95 84.2 67.9 101.9
 174 110.9 89.4 134.0





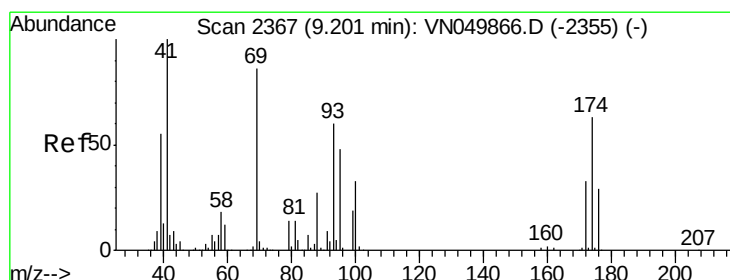
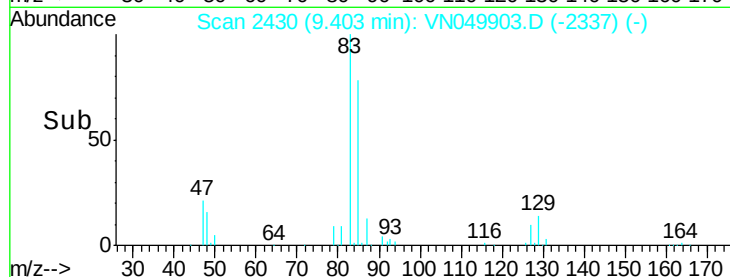
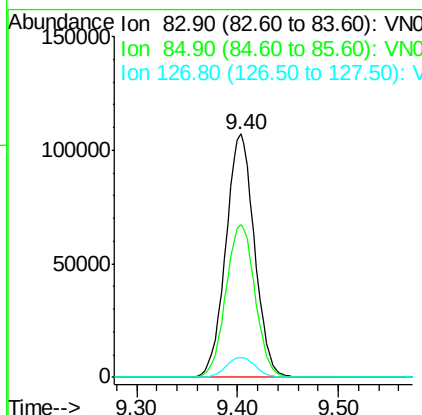
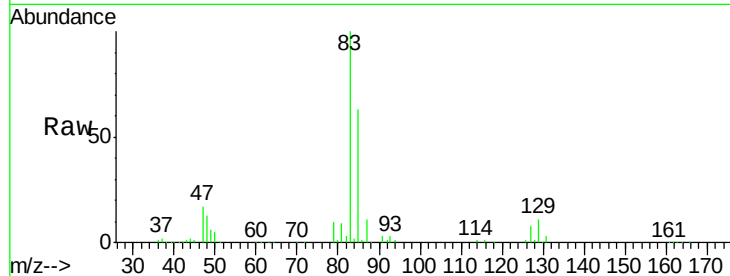
#47
Bromodichloromethane
Concen: 19.57 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	83	Resp	211803
Ion Ratio	100	Lower	Upper
83	100		
85	62.9	50.5	75.7
127	8.3	6.8	10.2

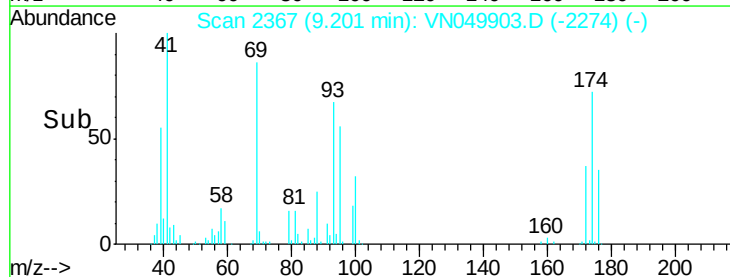
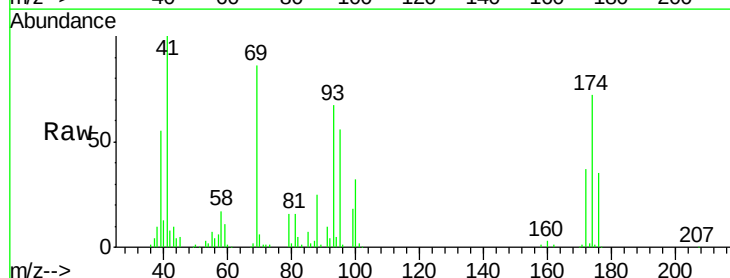
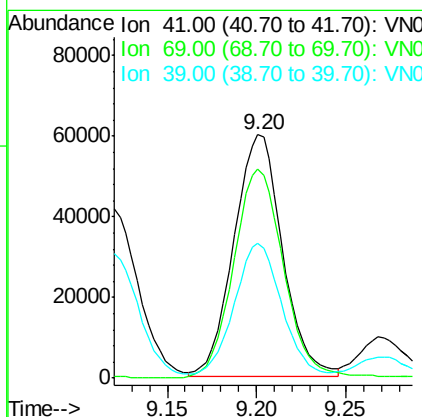
Manual Integrations
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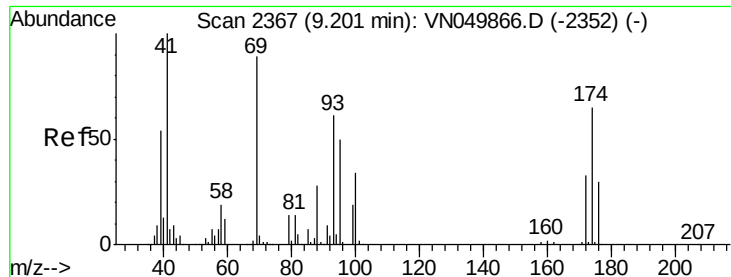
MMDadoda
7/19/2018 4:29:02 PM



#48
Methyl methacrylate
Concen: 18.51 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	41	Resp	114317
Ion Ratio	100	Lower	Upper
41	100		
69	89.1	71.5	107.3
39	55.3	44.7	67.1





#49

1,4-Dioxane

Concen: 349.70 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. 0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

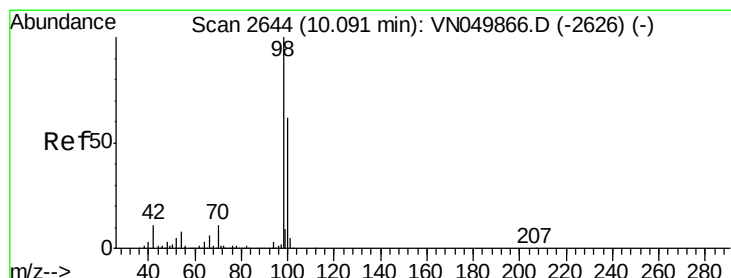
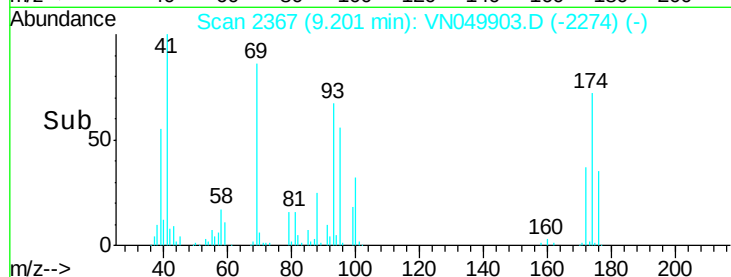
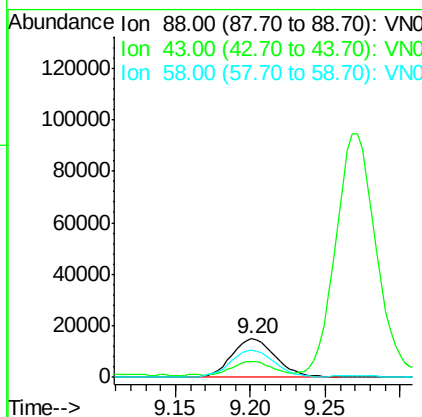
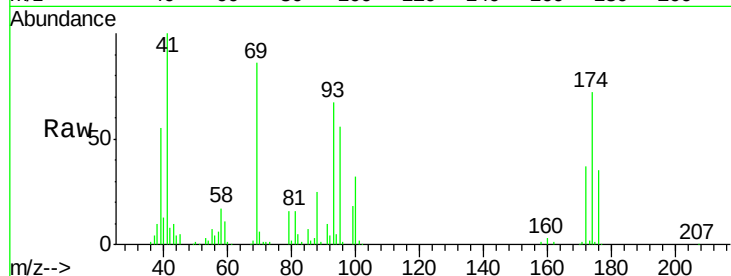
ClientSampleId :

VN0718WBS05

Tot Ion:	88	Resp:	30637
Ion	Ratio	Lower	Upper
88	100		
43	31.2	25.1	37.7
58	72.0	52.5	78.7

Manual Integrations
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#50

Toluene-d8

Concen: 48.91 ug/l

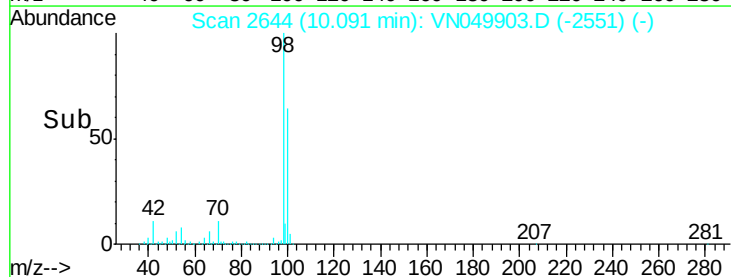
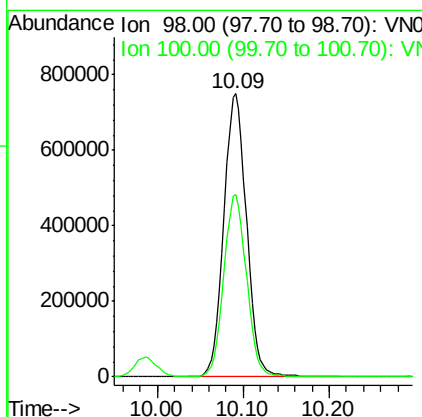
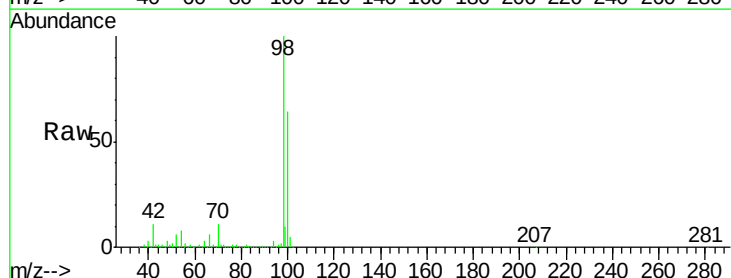
RT: 10.09 min Scan# 2644

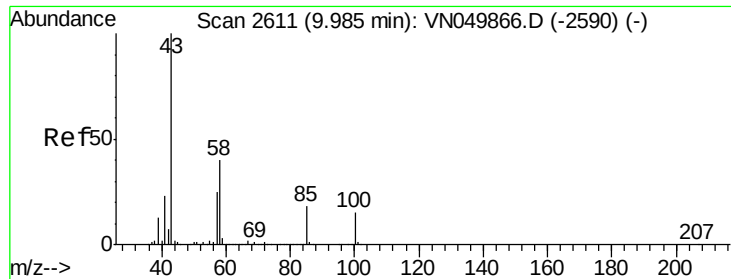
Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Tgt Ion:	98	Resp:	1380954
Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.7	77.5





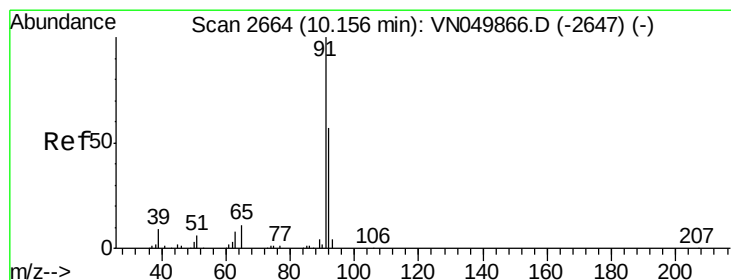
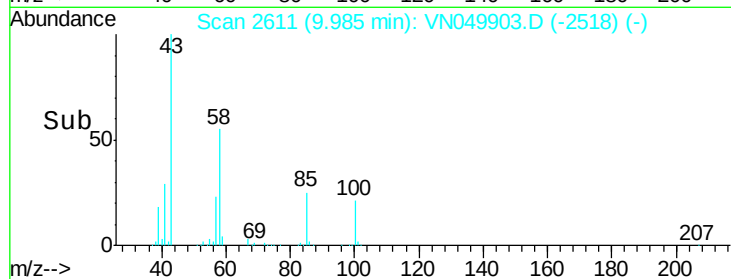
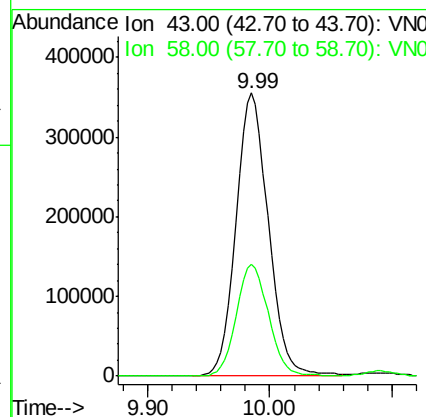
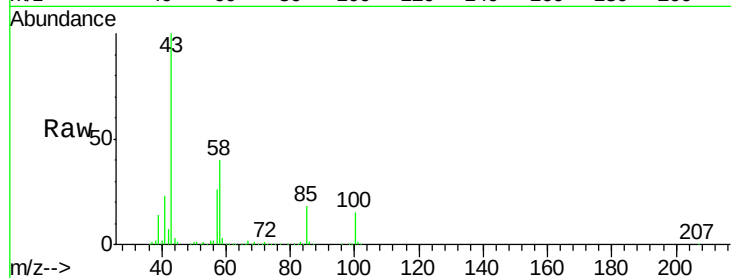
#51
 4-Methyl-2-Pentanone
 Concen: 94.73 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.6	31.8	47.8

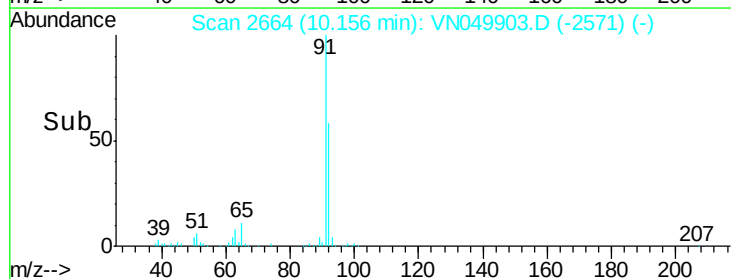
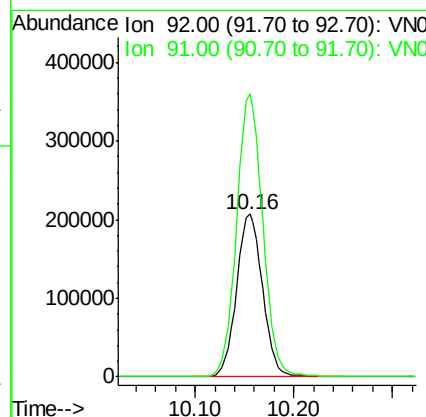
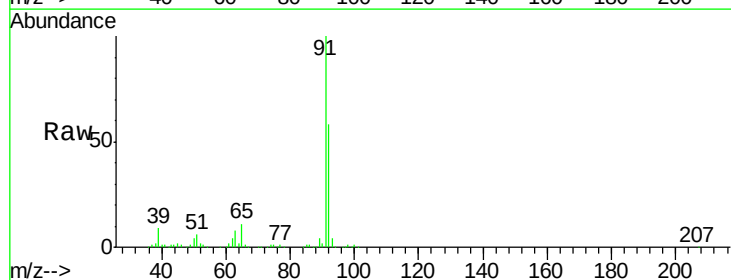
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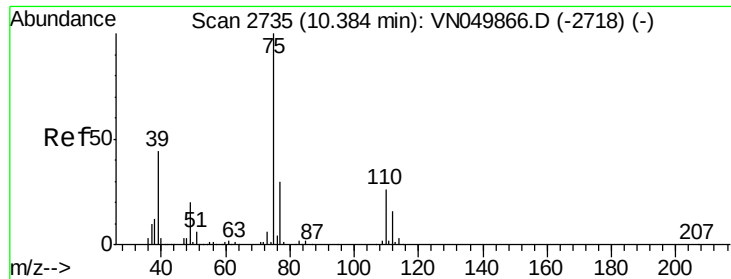
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#52
 Toluene
 Concen: 20.40 ug/l
 RT: 10.16 min Scan# 2664
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.0	140.1	210.1





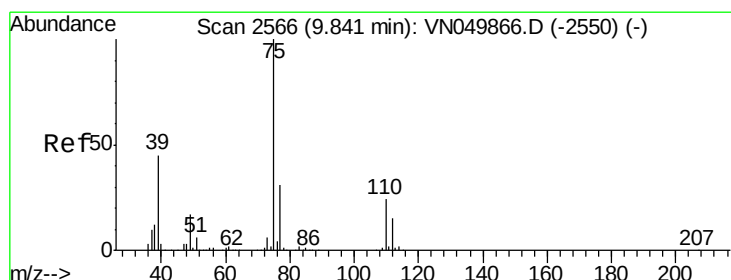
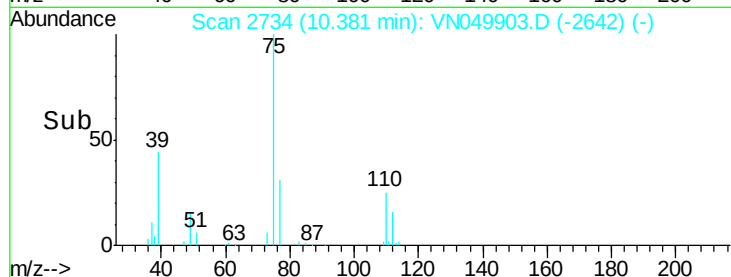
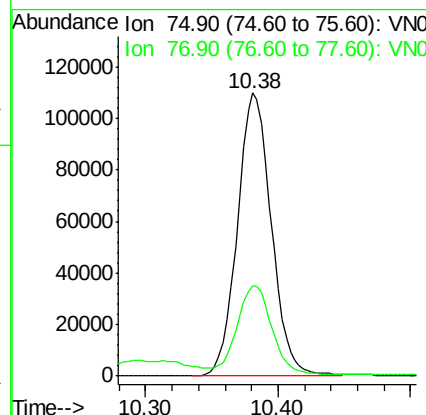
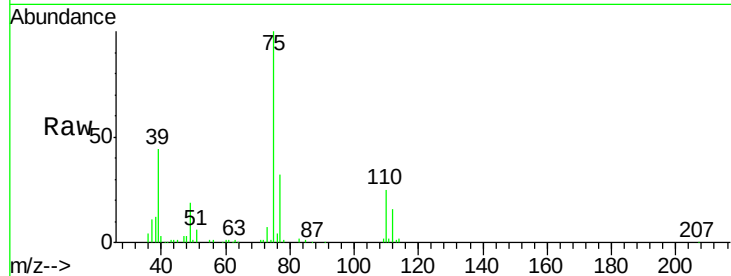
#53
t-1,3-Dichloropropene
Concen: 18.24 ug/l
RT: 10.38 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion: 75 Resp: 195137
Ion Ratio Lower Upper
75 100
77 31.3 25.2 37.8

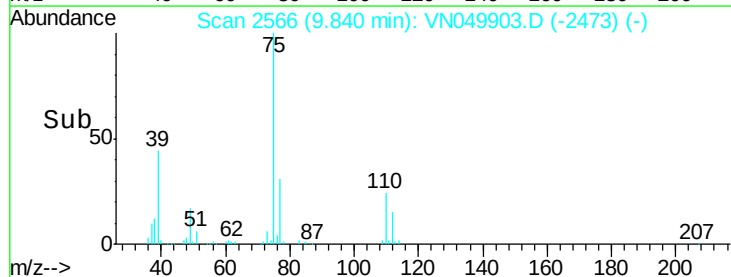
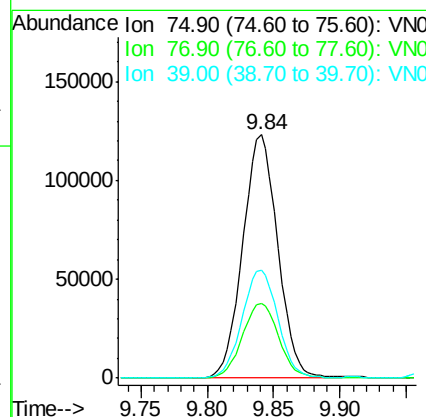
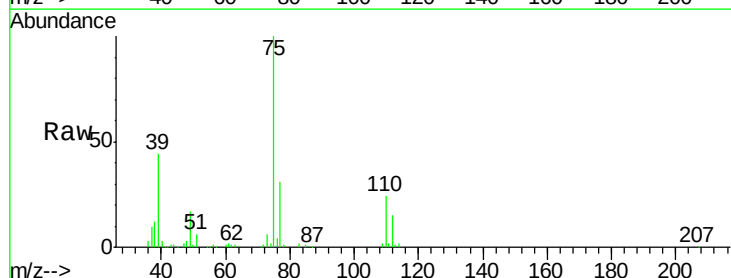
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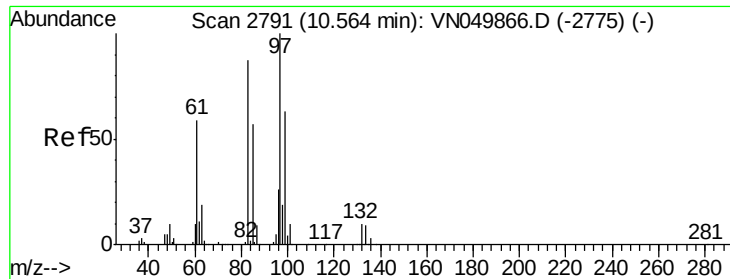
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#54
cis-1,3-Dichloropropene
Concen: 19.10 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion: 75 Resp: 225835
Ion Ratio Lower Upper
75 100
77 30.9 25.3 37.9
39 44.2 35.5 53.3





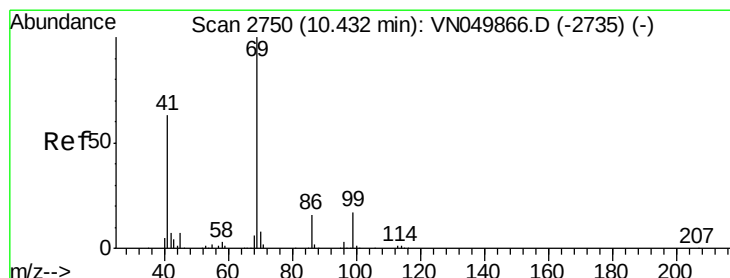
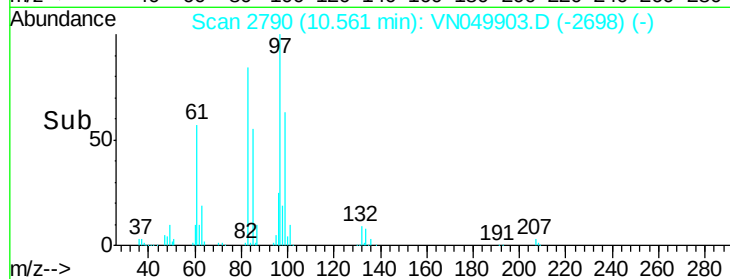
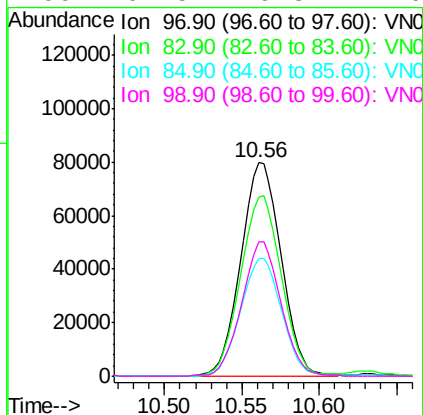
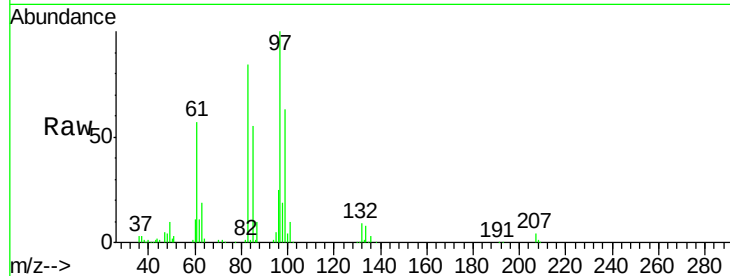
#55
 1,1,2-Trichloroethane
 Concen: 18.80 ug/l
 RT: 10.56 min Scan# 2790
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		144887		
83	84.1	69.0	103.6		
85	54.9	44.9	67.3		
99	62.5	49.8	74.6		

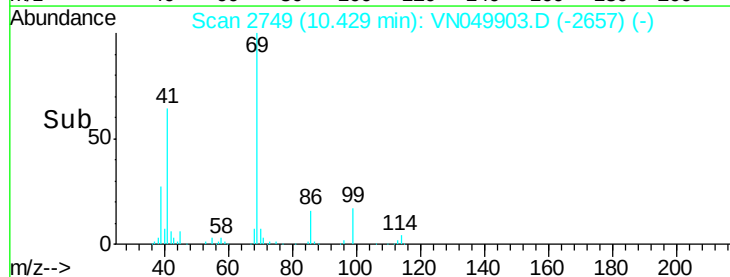
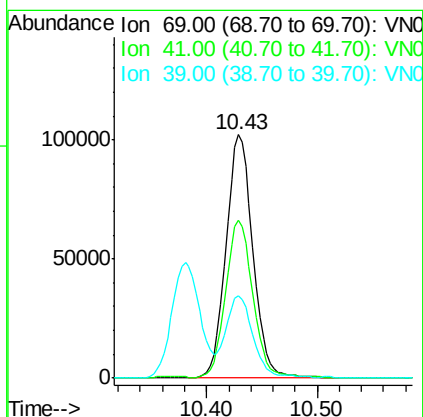
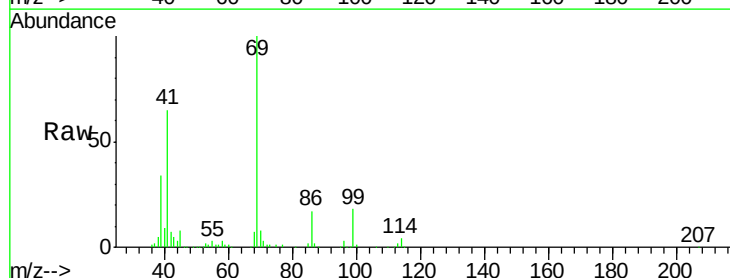
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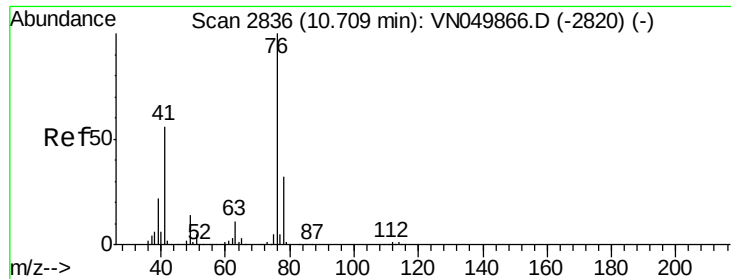
MMDadoda
 7/19/2018 4:29:02 PM



#56
 Ethyl methacrylate
 Concen: 18.16 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		173075		
41	64.8	51.6	77.4		
39	34.3	25.8	38.8		





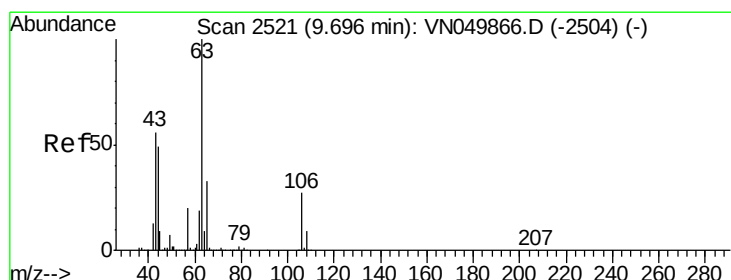
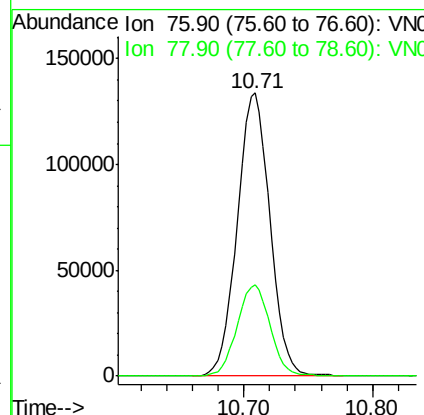
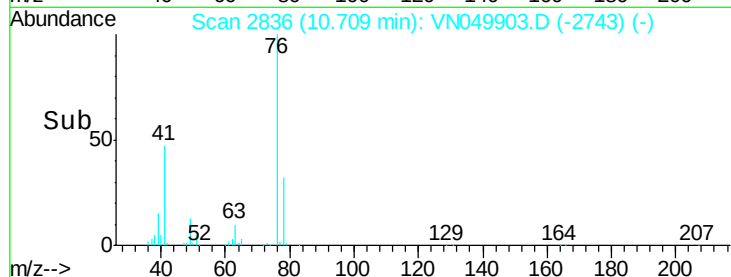
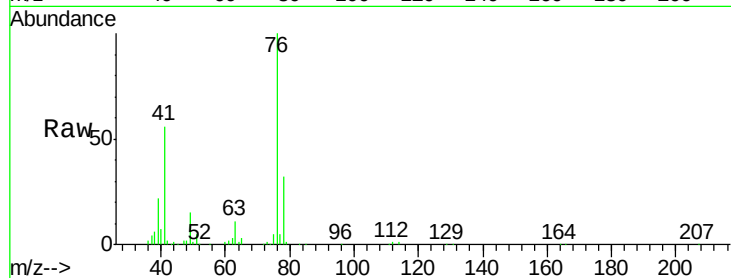
#57
 1,3-Dichloropropane
 Concen: 19.41 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8

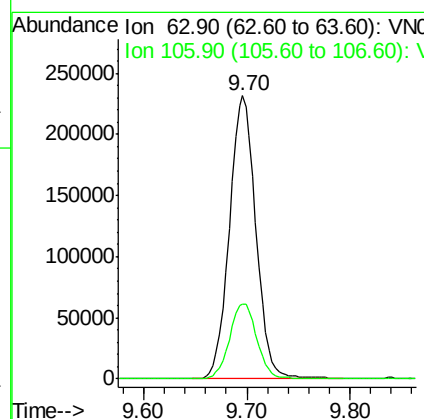
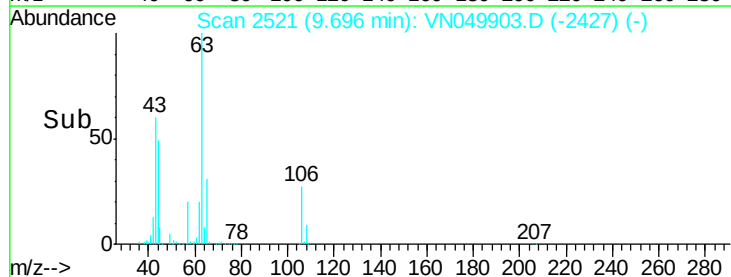
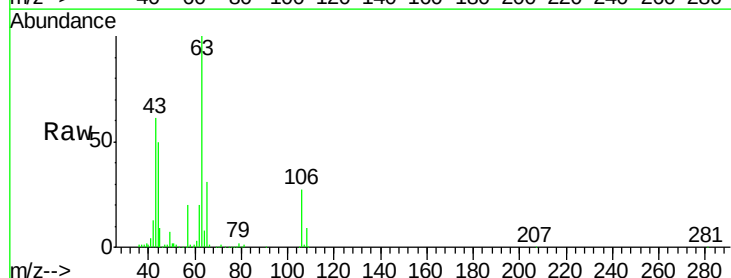
Manual Integrations
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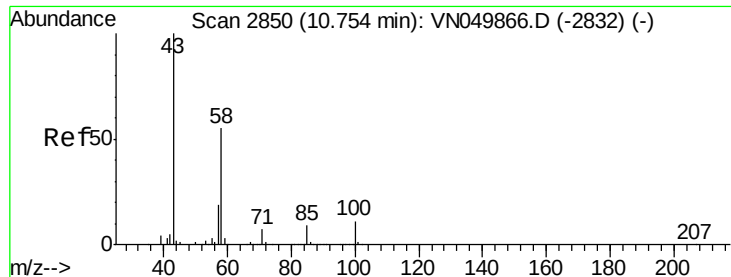
MMDadoda
 7/19/2018 4:29:02 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 100.91 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.8	32.8





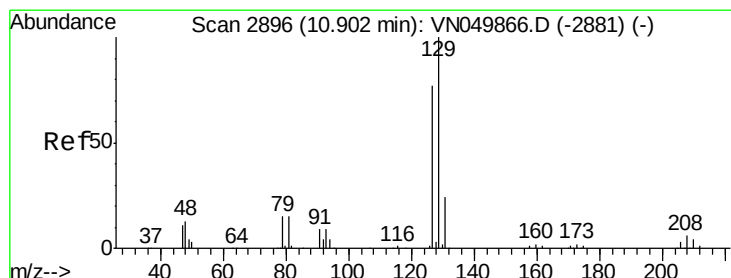
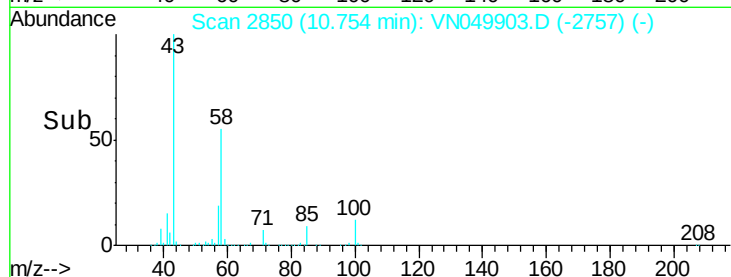
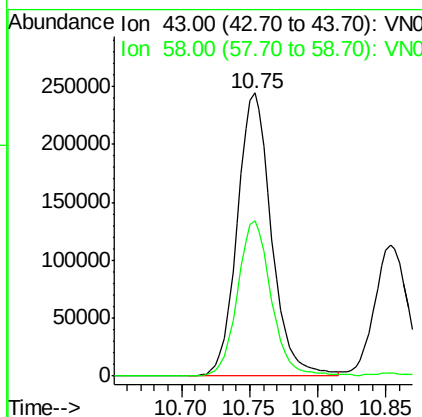
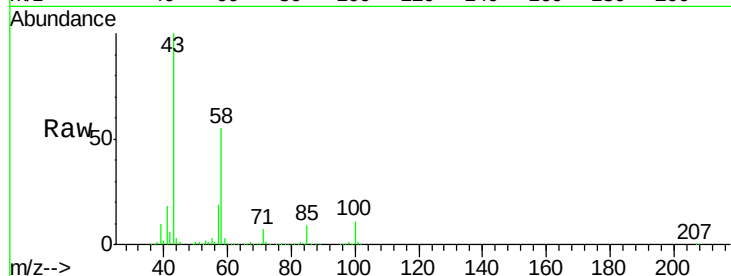
#59
2-Hexanone
Concen: 91.32 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	43	Resp	422144
Ion Ratio	100	Lower	Upper
43	100		
58	54.6	27.8	83.4

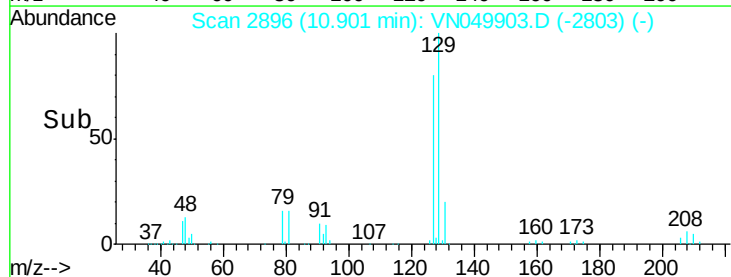
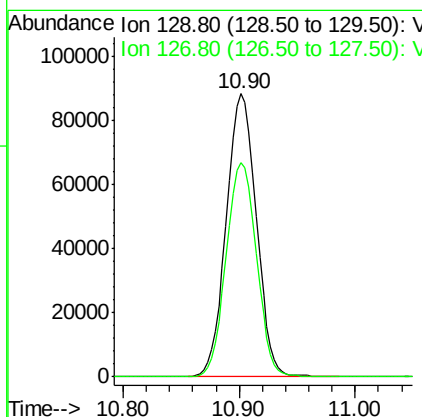
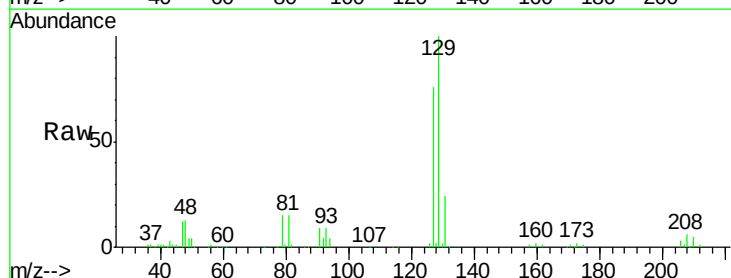
Manual Integrations
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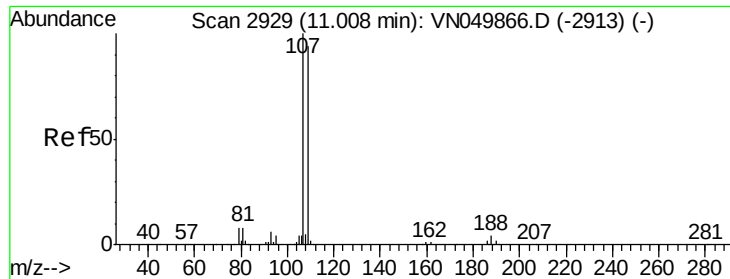
MMDadoda
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#60
Dibromochloromethane
Concen: 18.76 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	129	Resp	158577
Ion Ratio	100	Lower	Upper
129	100		
127	76.5	38.3	114.9





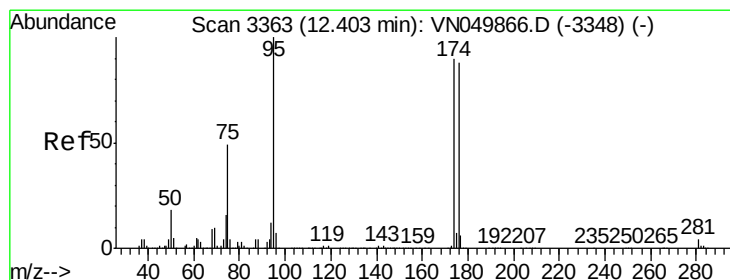
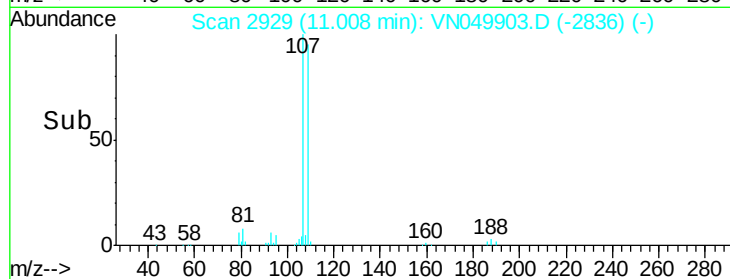
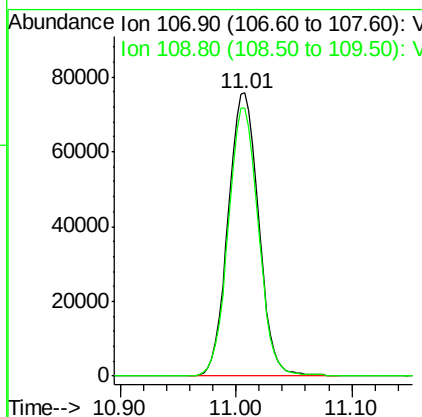
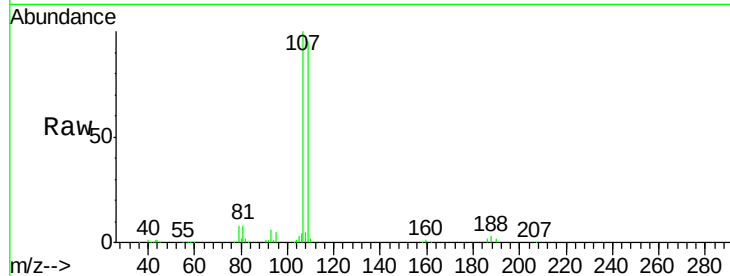
#61
 1,2-Dibromoethane
 Concen: 19.17 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Tot Ion	Ratio	Resp	Lower	Upper
107	100	138091		
109	93.9	75.0	112.6	

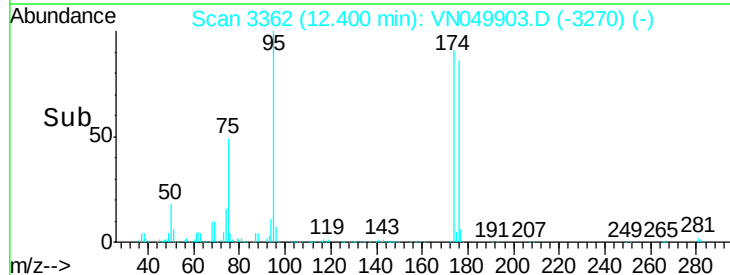
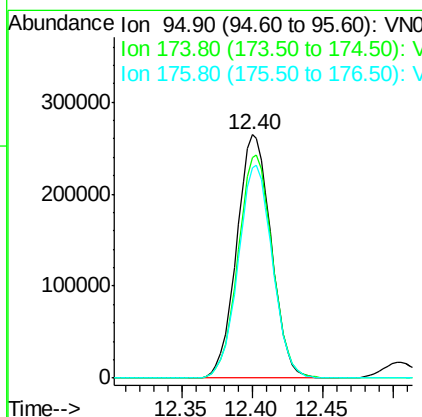
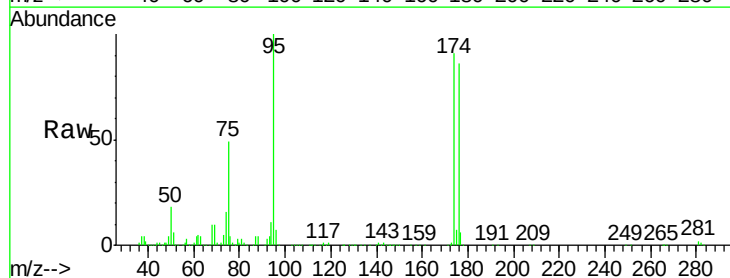
Manual Integrations
 APPROVED

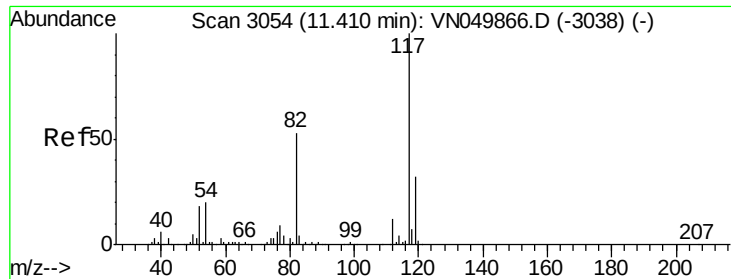
MMDadoda
 7/19/2018 4:29:02 PM



#62
 4-Bromofluorobenzene
 Concen: 46.66 ug/l
 RT: 12.40 min Scan# 3362
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	453643		
174	91.0	0.0	179.6	
176	86.7	0.0	174.0	





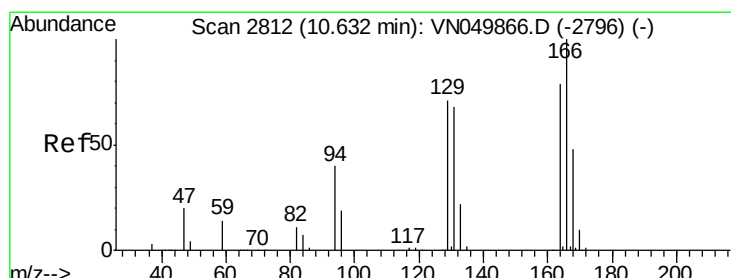
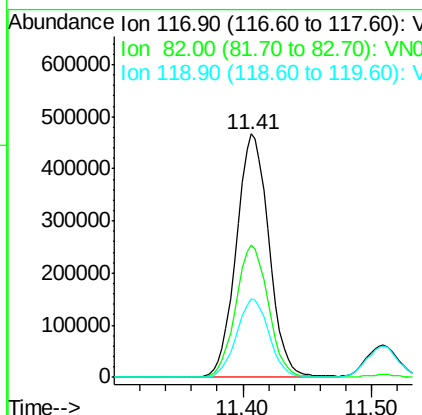
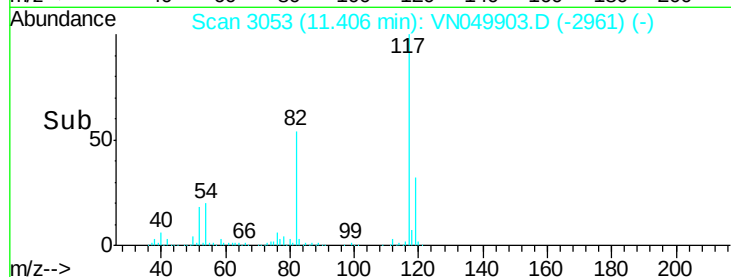
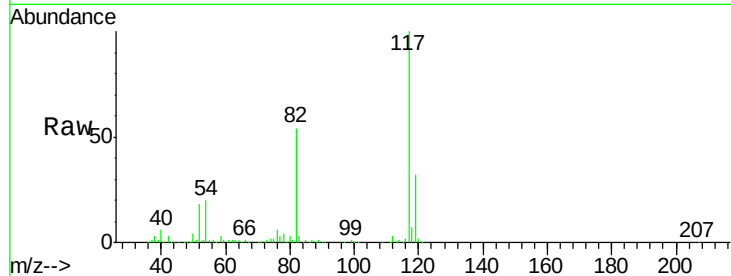
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.4	41.9	62.9
119	32.2	25.4	38.2

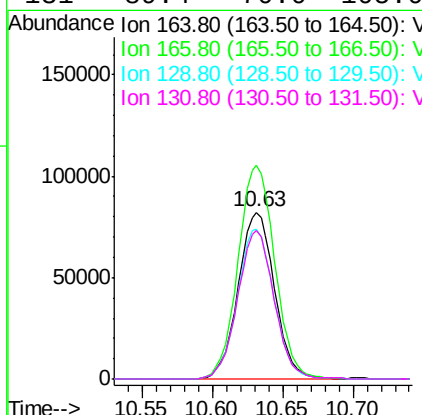
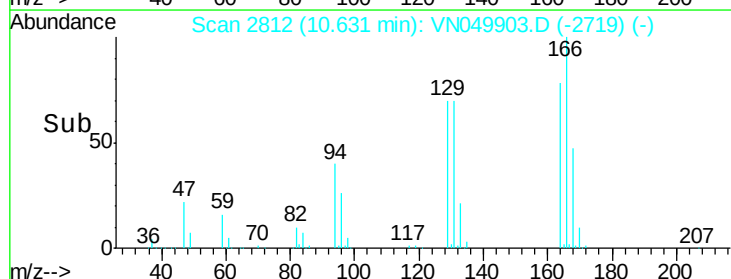
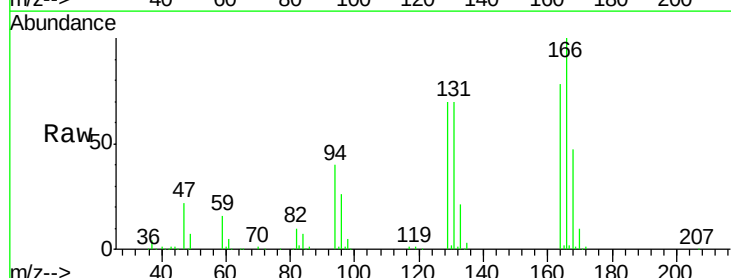
Manual Integrations
APPROVED

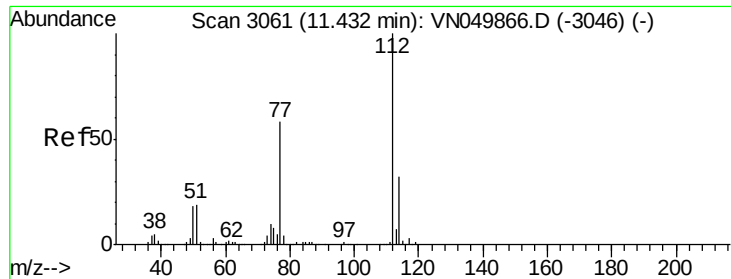
MMDadoda
7/19/2018 4:29:02 PM



#64
Tetrachloroethene
Concen: 20.00 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.1	101.8	152.6
129	90.2	72.8	109.2
131	89.4	70.0	105.0





#65

Chlorobenzene

Concen: 19.96 ug/l

RT: 11.43 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS05

Tot Ion:112 Resp: 413440

Ion Ratio Lower Upper

112 100

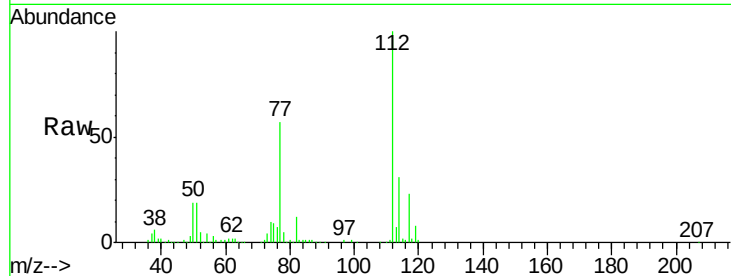
114 31.5 25.4 38.0

Manual Integrations

APPROVED

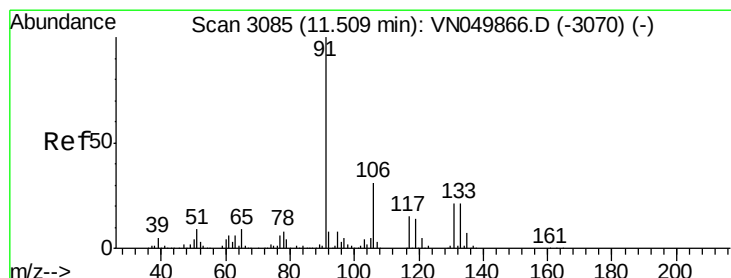
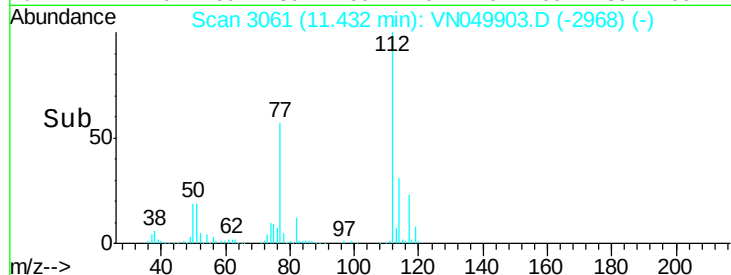
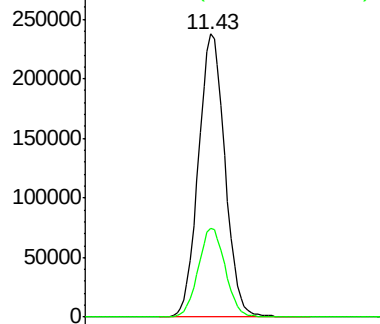
MMDadoda

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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: 19.23 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

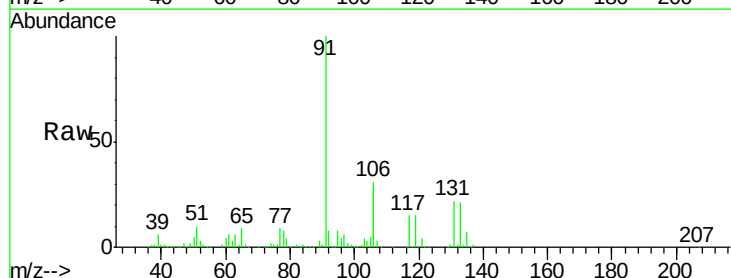
Tgt Ion:131 Resp: 154333

Ion Ratio Lower Upper

131 100

133 97.7 47.5 142.6

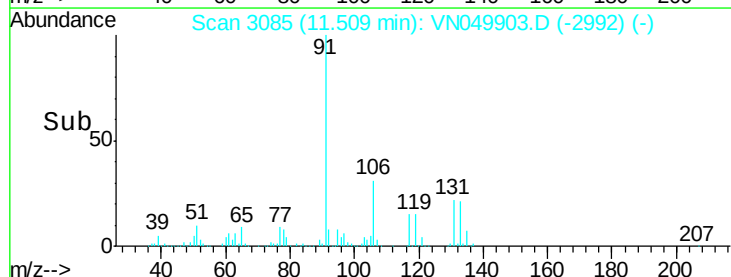
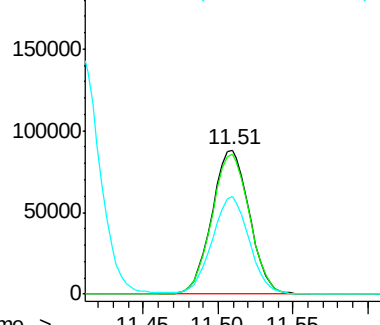
119 67.0 33.1 99.3

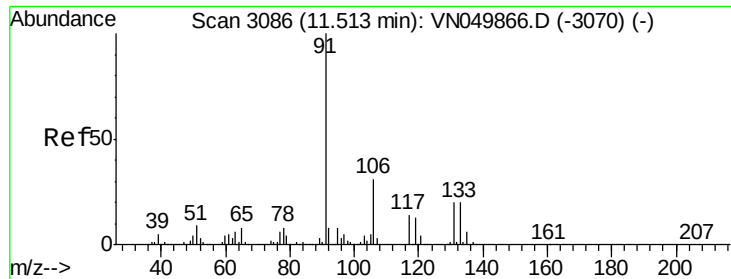


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





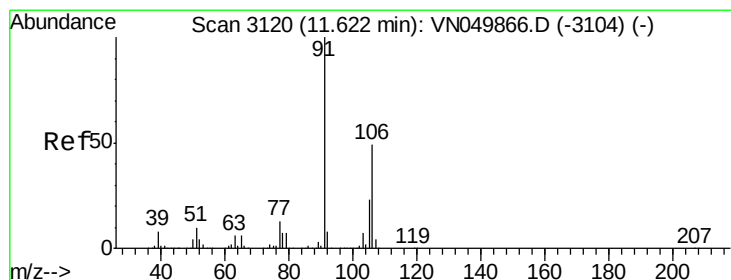
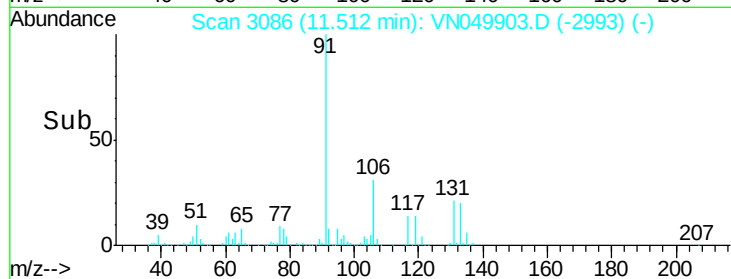
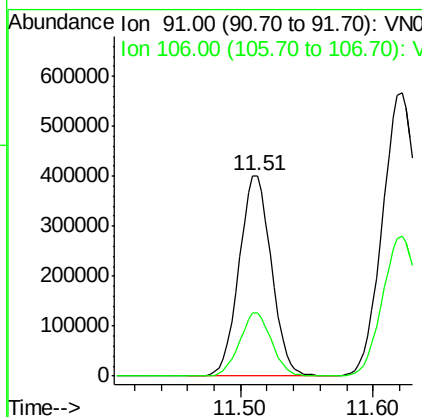
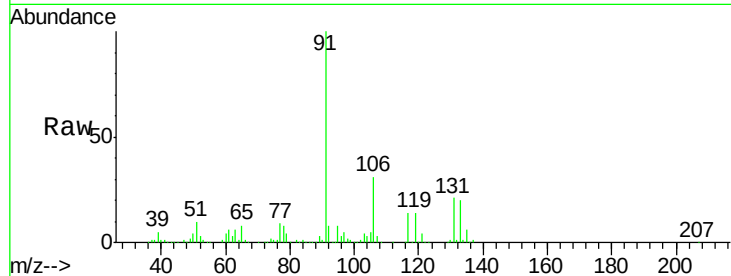
#67
Ethyl Benzene
Concen: 20.22 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampled :
VN0718WBS05

Tot Ion: 91 Resp: 679322
Ion Ratio Lower Upper
91 100
106 31.3 24.8 37.2

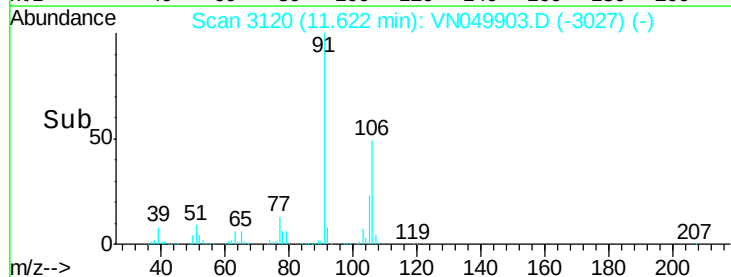
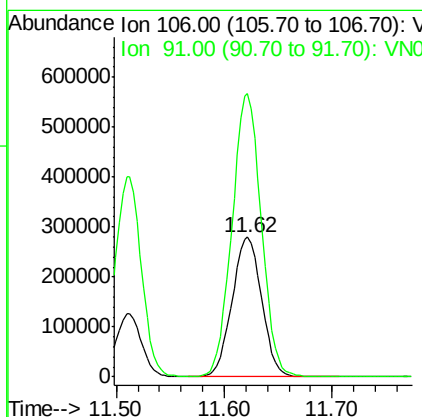
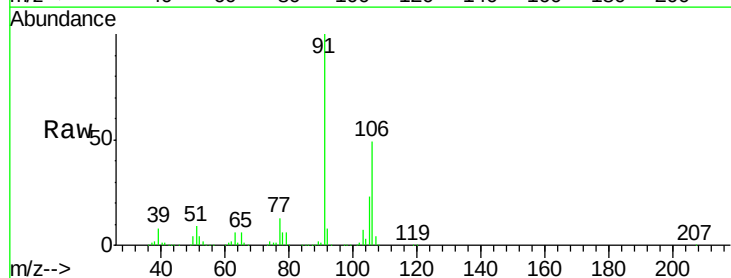
Manual Integrations
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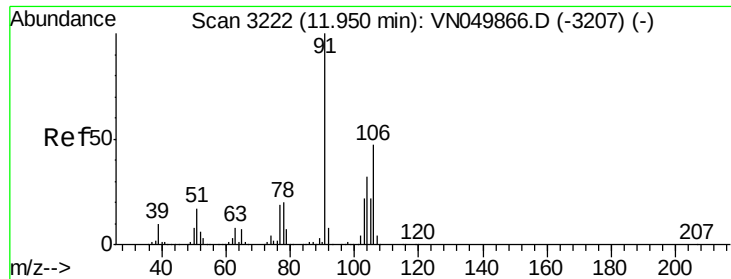
MMDadoda
7/19/2018 4:29:02 PM



#68
m/p-Xylenes
Concen: 41.99 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion: 106 Resp: 534118
Ion Ratio Lower Upper
106 100
91 200.4 163.4 245.2





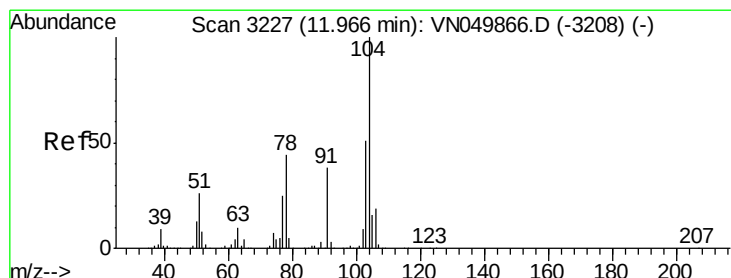
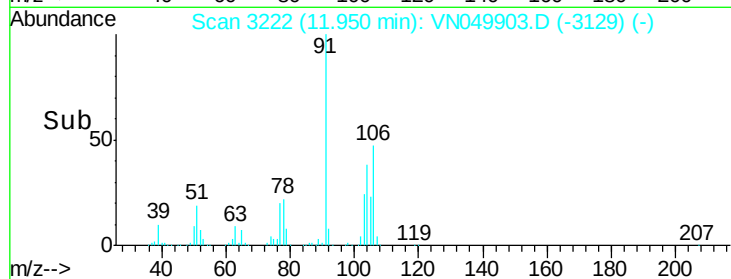
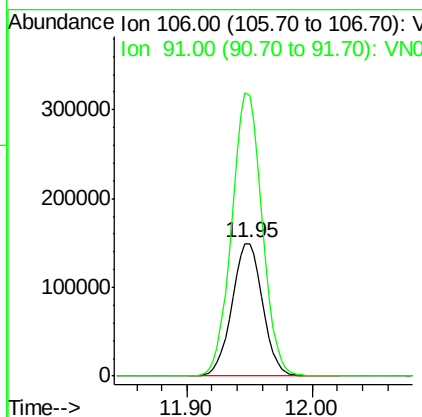
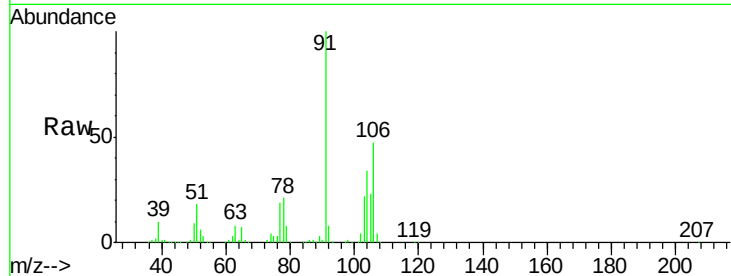
#69
o-Xylene
Concen: 20.73 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampled :
VN0718WBS05

Tot Ion:106 Resp: 253320
Ion Ratio Lower Upper
106 100
91 211.9 108.7 326.1

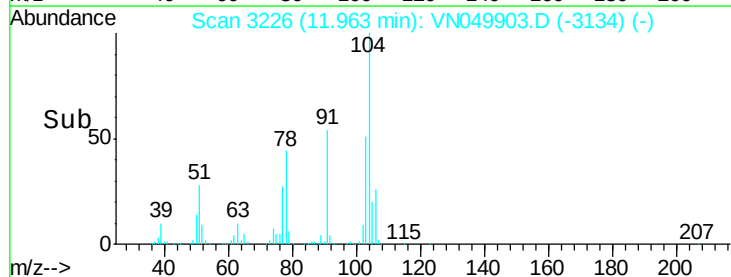
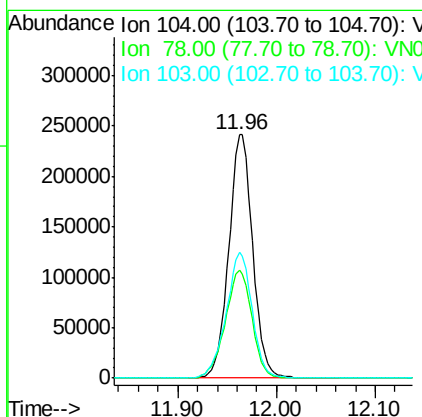
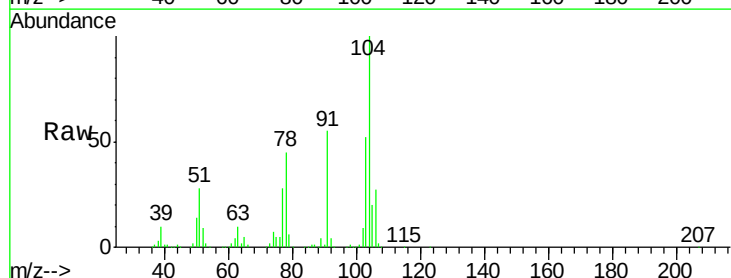
Manual Integrations
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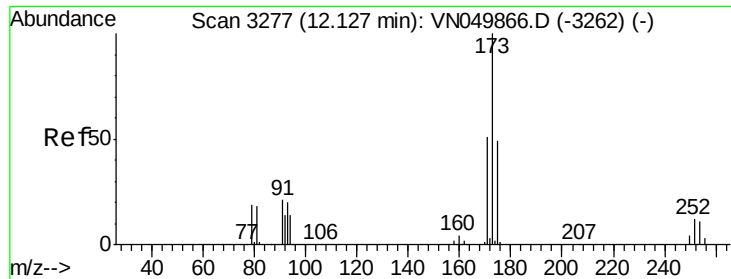
MMDadoda
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#70
Styrene
Concen: 20.68 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion:104 Resp: 409220
Ion Ratio Lower Upper
104 100
78 49.4 39.2 58.8
103 56.1 44.6 67.0





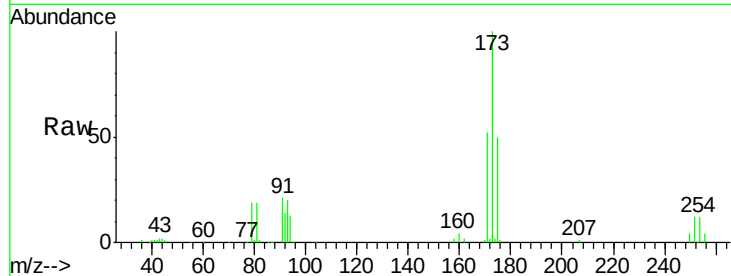
#71
Bromoform
Concen: 18.91 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

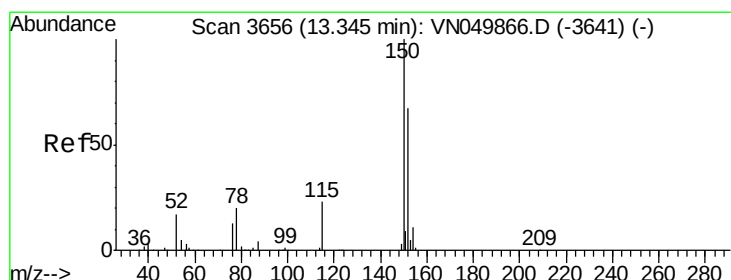
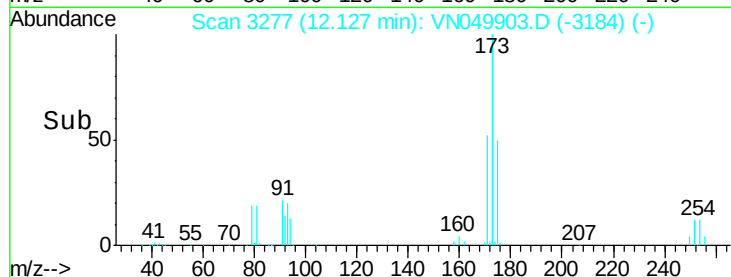
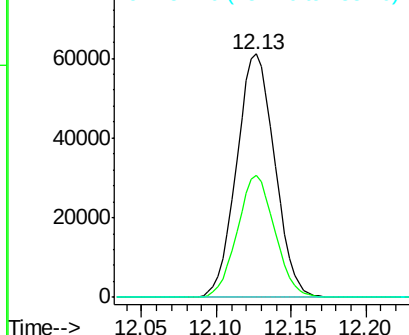
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.6	73.8
254	0.0	0.2	0.2

Manual Integrations
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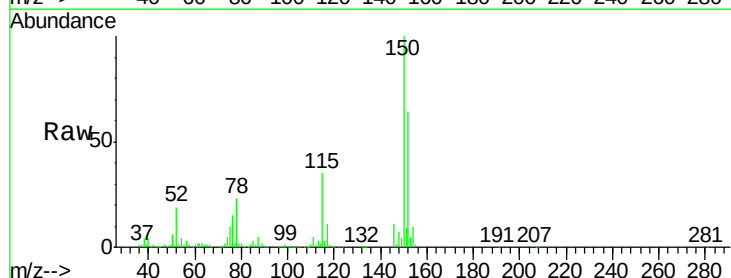


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

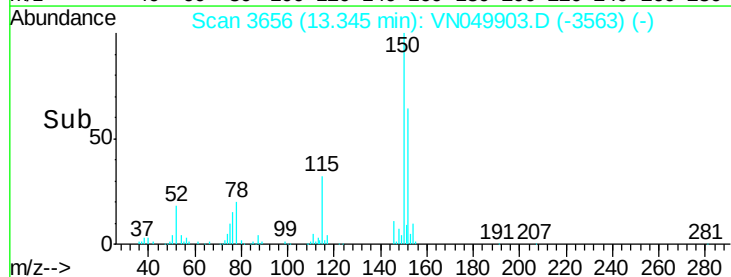
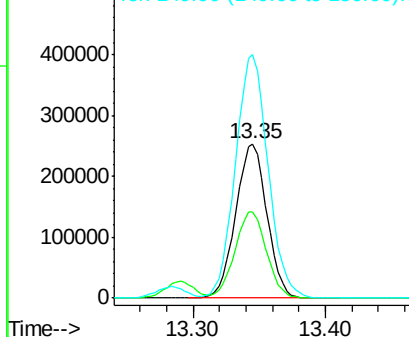


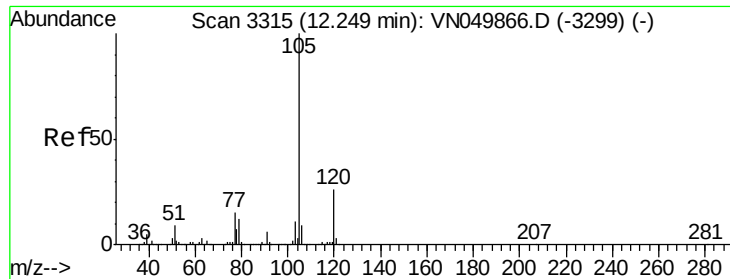
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	28.1	84.2
150	165.5	0.0	347.6



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: 21.52 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS05

Tot Ion:105 Resp: 674966

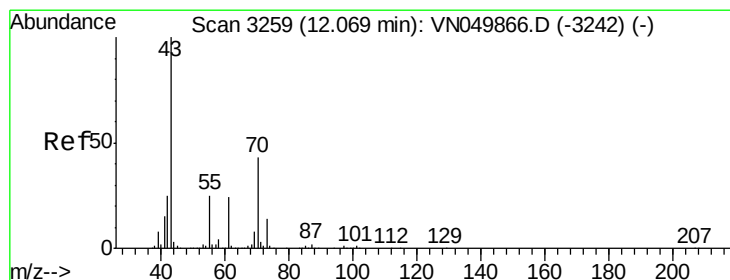
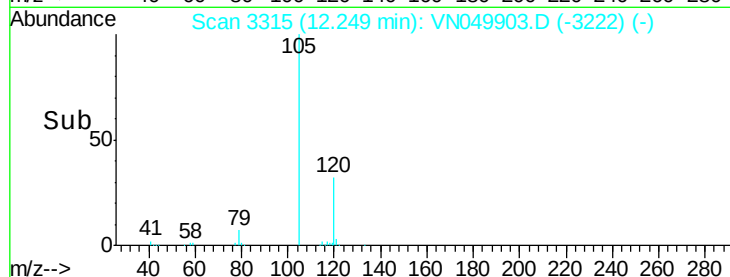
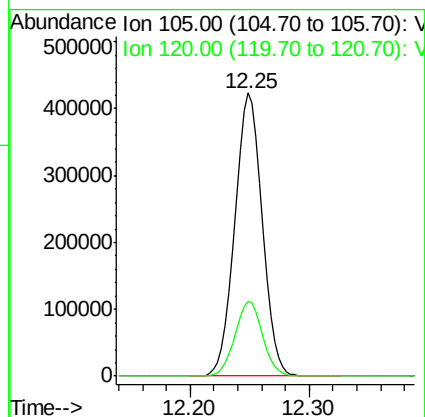
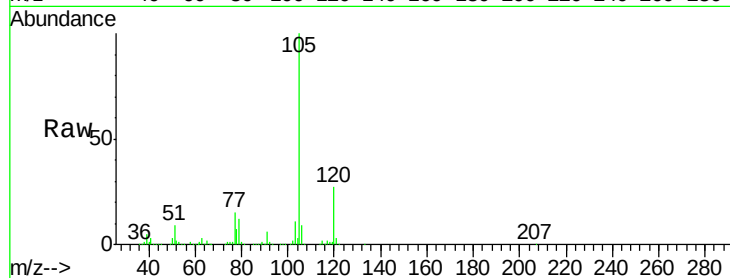
Ion Ratio Lower Upper

105 100

120 26.4 13.3 39.8

Manual Integrations
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#74

N-ethyl acetate

Concen: 19.68 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Tgt Ion: 43 Resp: 187875

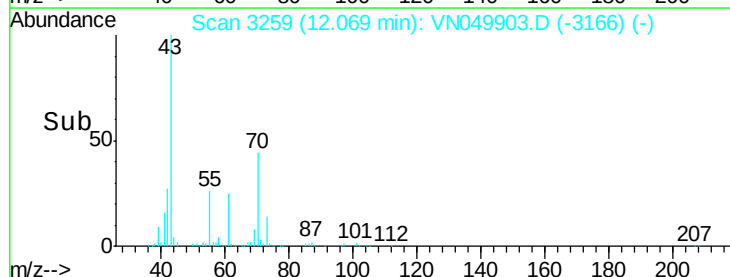
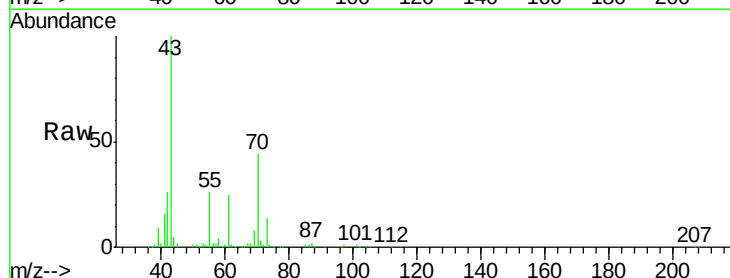
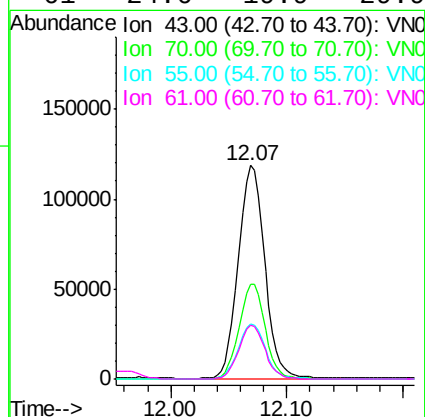
Ion Ratio Lower Upper

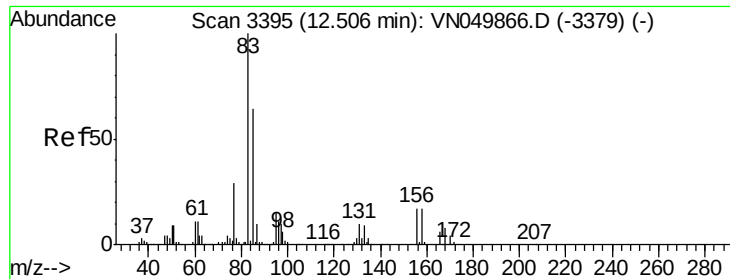
43 100

70 43.8 34.8 52.2

55 26.6 20.9 31.3

61 24.6 19.9 29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 18.90 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS05

Tot Ion: 83 Resp: 177582

Ion Ratio Lower Upper

83 100

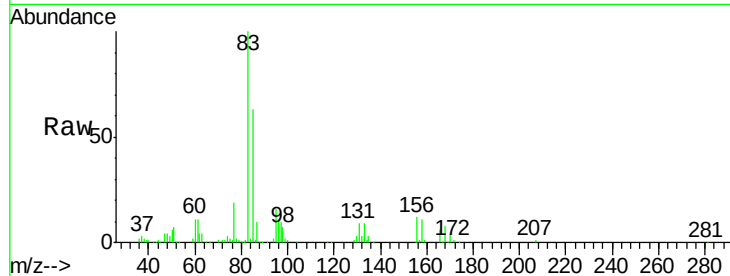
131 10.4 5.2 15.6

85 65.2 32.5 97.4

Manual Integrations
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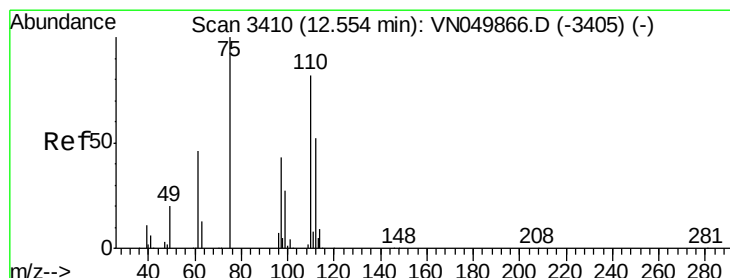
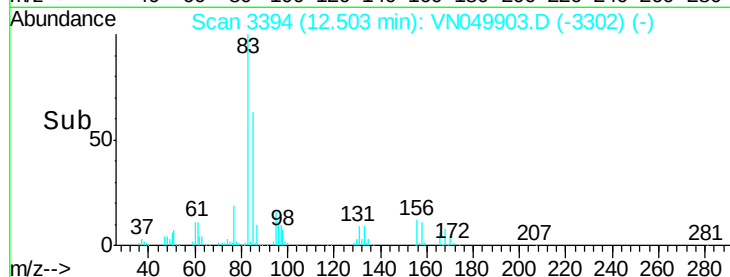
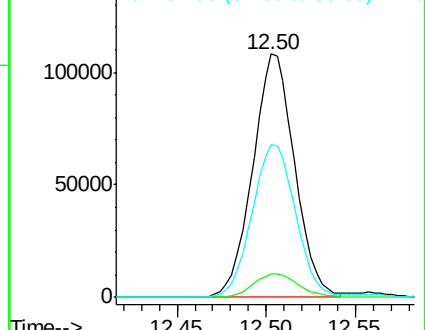
7/19/2018 4:29:02 PM



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 18.98 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN049903.D

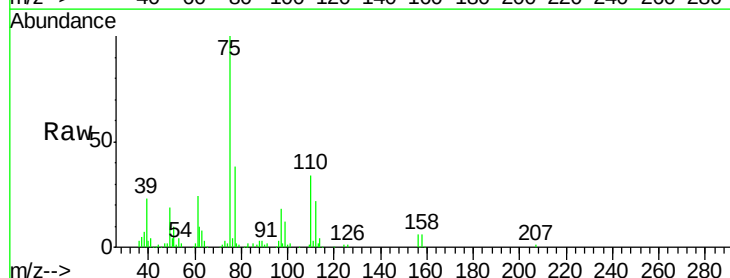
Acq: 19 Jul 2018 5:18

Tgt Ion: 75 Resp: 146962

Ion Ratio Lower Upper

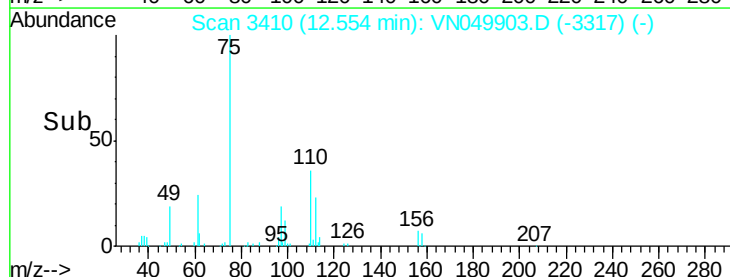
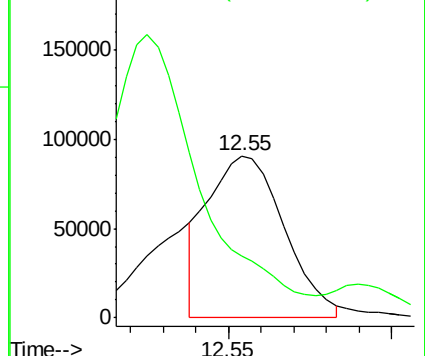
75 100

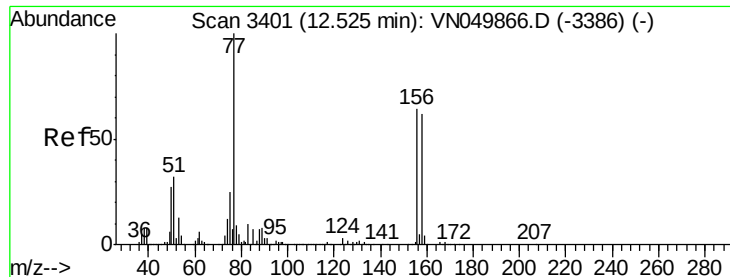
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 20.41 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

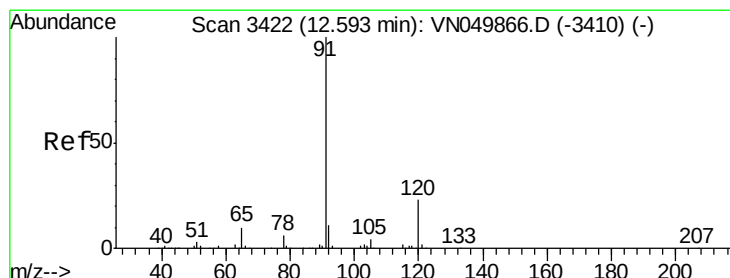
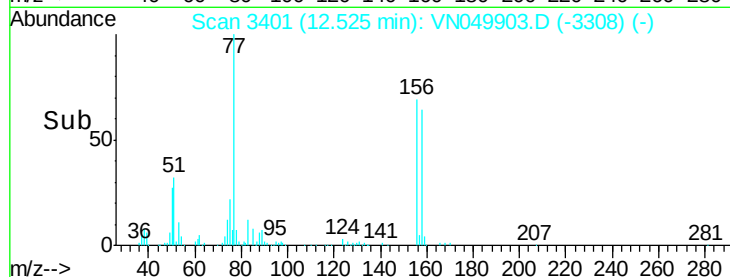
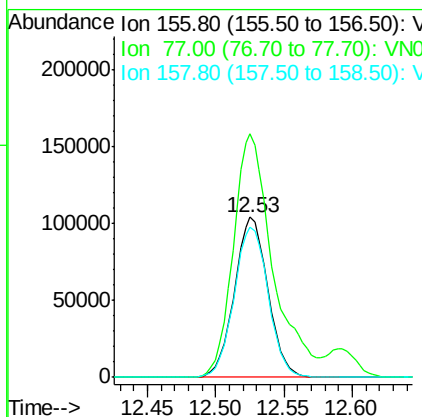
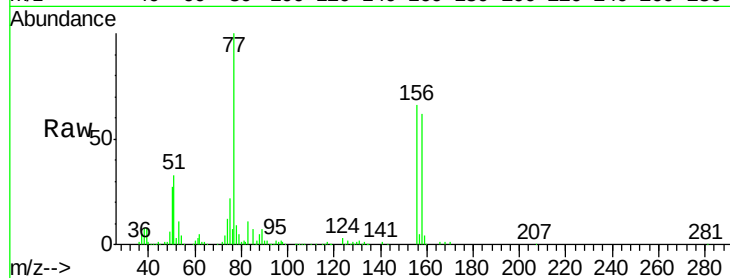
ClientSampleId :

VN0718WBS05

Tot Ion:	156	Resp:	176714
Ion Ratio	Lower	Upper	
156	100		
77	180.8	90.2	270.6
158	95.9	49.1	147.3

Manual Integrations
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#78

n-propylbenzene

Concen: 21.59 ug/l

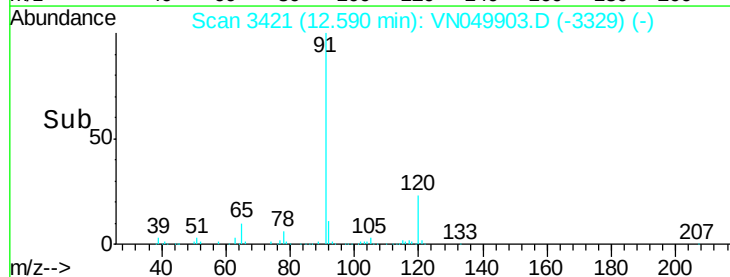
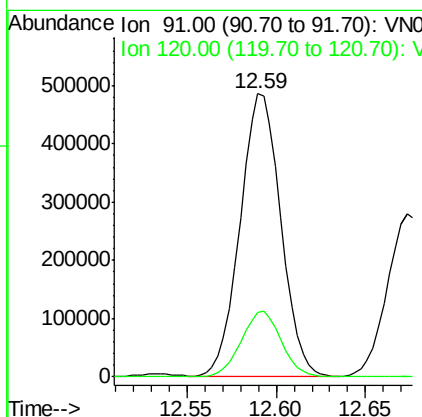
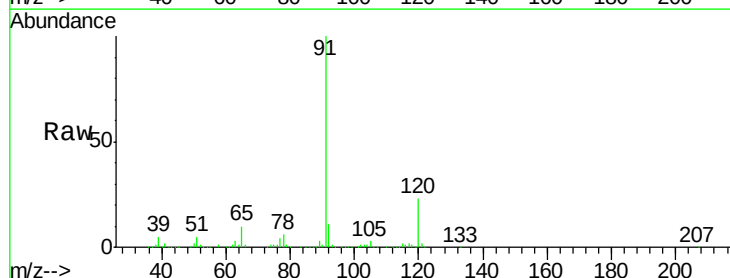
RT: 12.59 min Scan# 3421

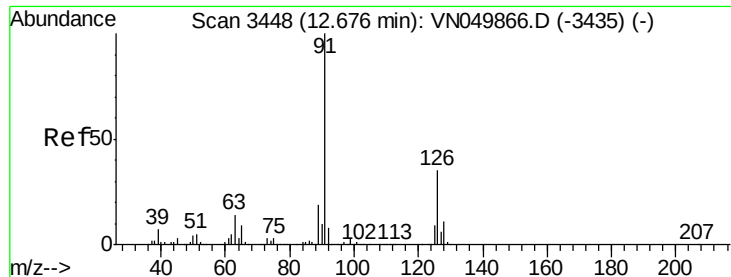
Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Tgt Ion:	91	Resp:	769747
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.5	34.4





#79

2-Chlorotoluene

Concen: 21.22 ug/l

RT: 12.67 min Scan# 3447

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS05

Tot Ion: 91 Resp: 464596

Ion Ratio Lower Upper

91 100

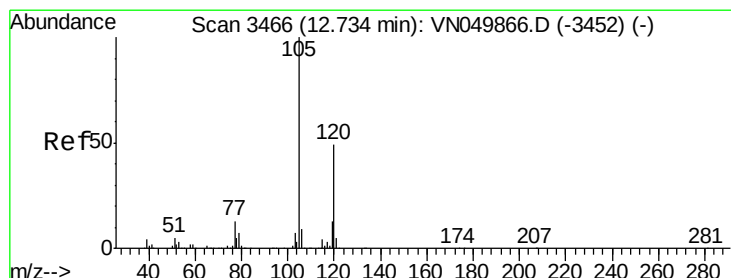
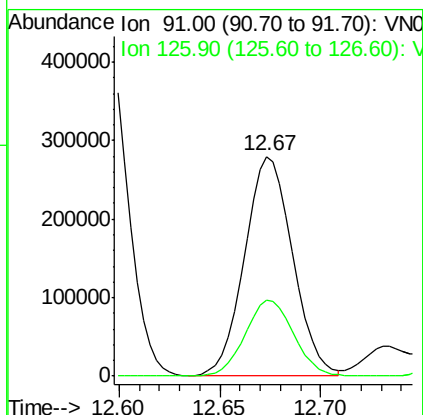
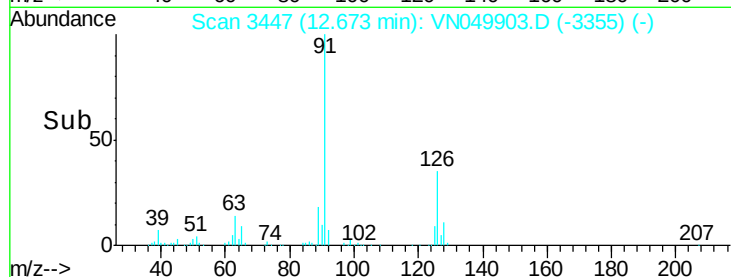
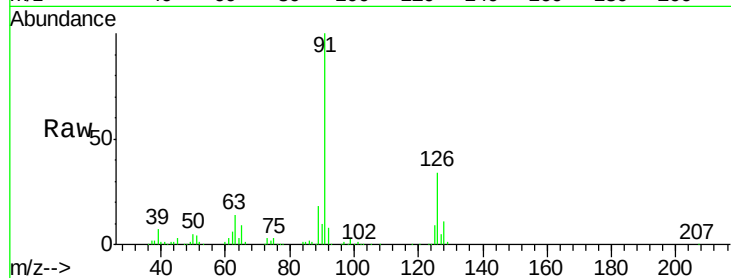
126 35.0 17.5 52.5

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 22.12 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN049903.D

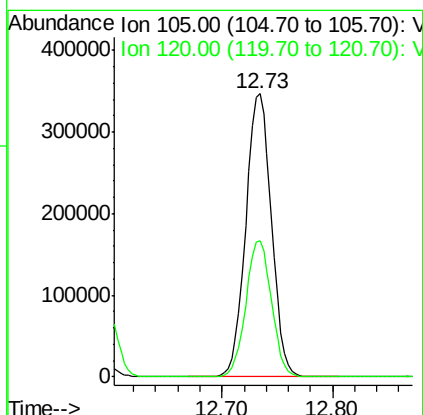
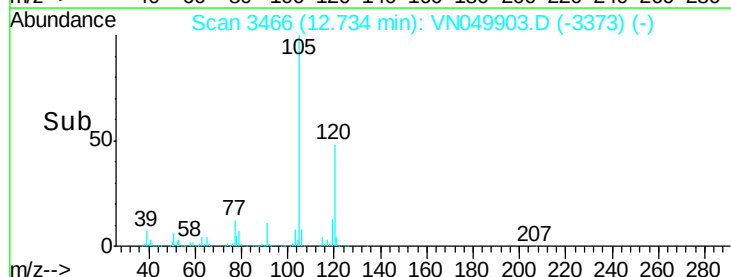
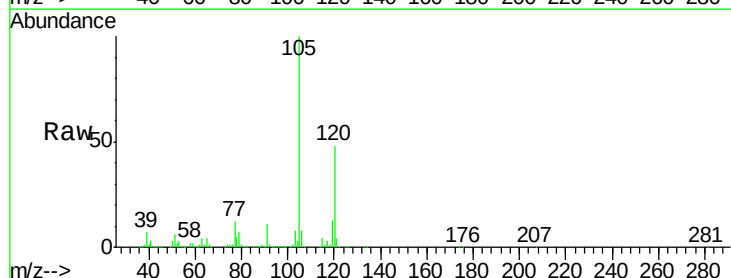
Acq: 19 Jul 2018 5:18

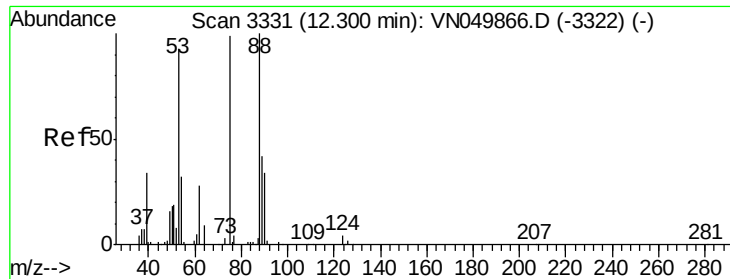
Tgt Ion: 105 Resp: 555938

Ion Ratio Lower Upper

105 100

120 48.2 24.3 72.8





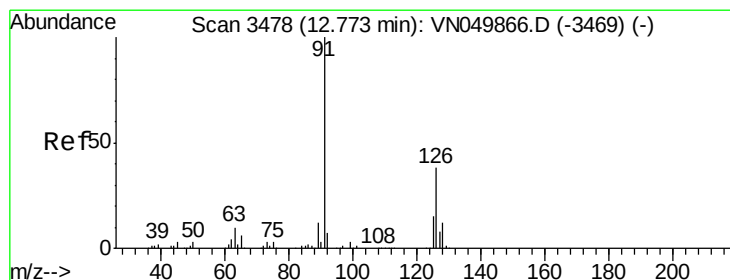
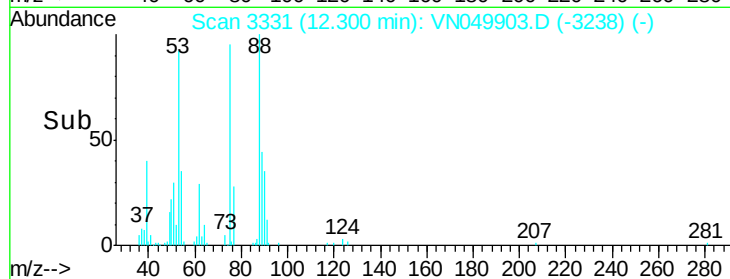
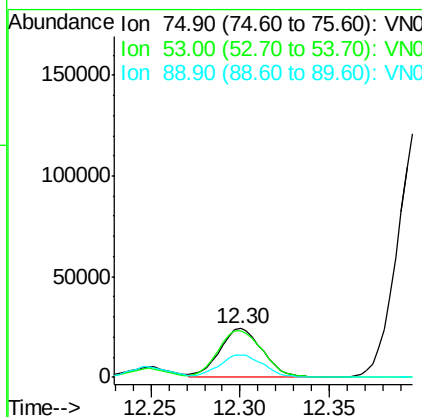
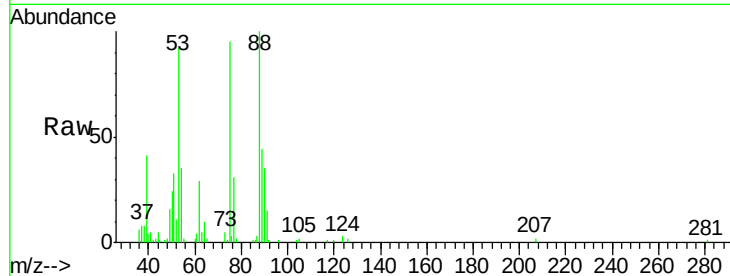
#81
trans-1,4-Dichloro-2-butene
Concen: 16.43 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	Ratio	Lower	Upper
75	100		
53	101.0	73.9	110.9
89	46.8	35.9	53.9

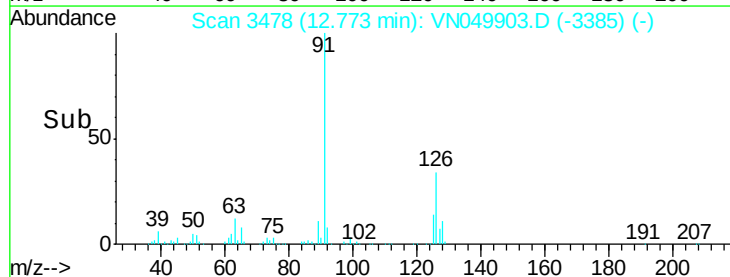
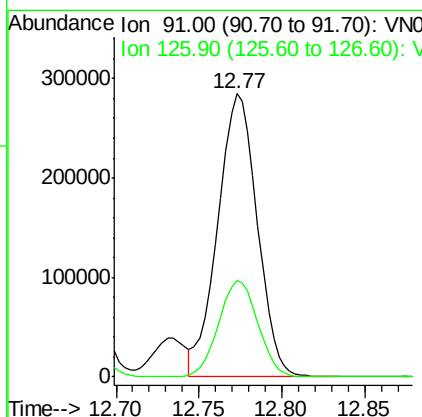
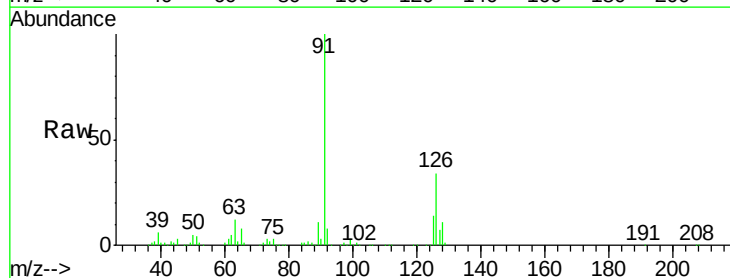
Manual Integrations
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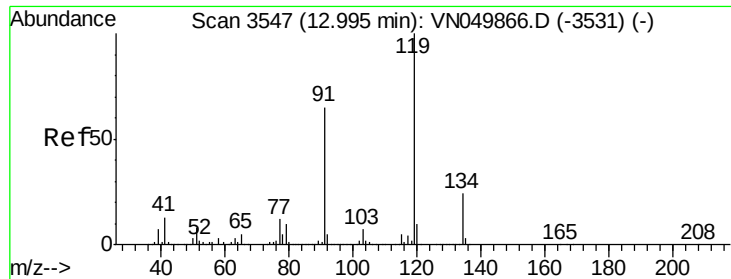
MMDadoda
7/19/2018 4:29:02 PM



#82
4-Chlorotoluene
Concen: 21.38 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.2	51.6





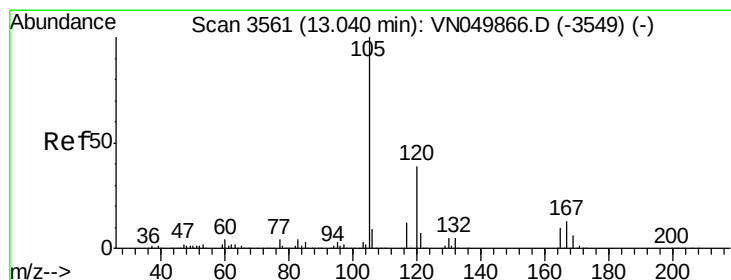
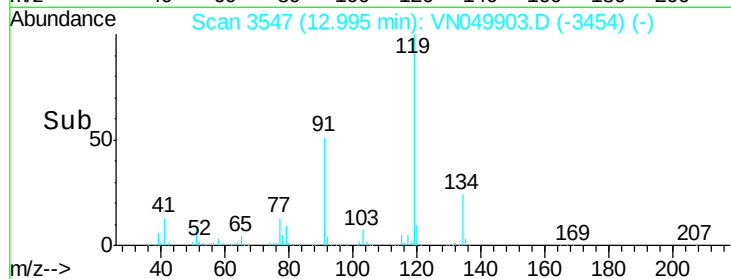
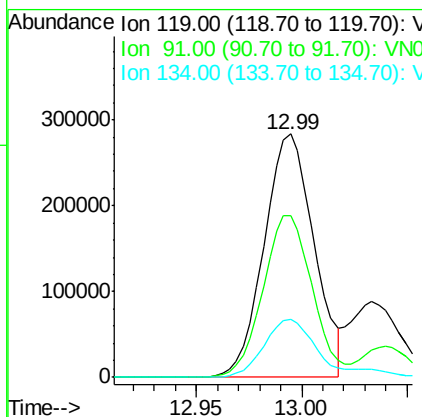
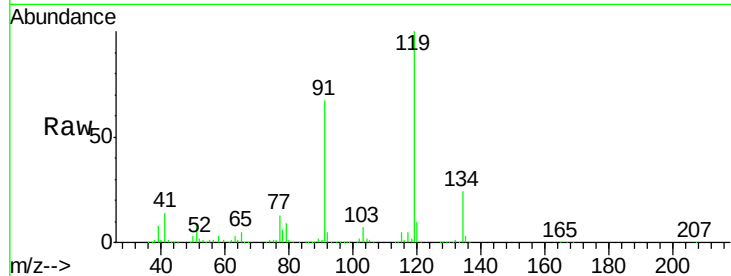
#83
 tert-Butylbenzene
 Concen: 21.17 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.6	32.0	96.2
134	24.5	12.8	38.4

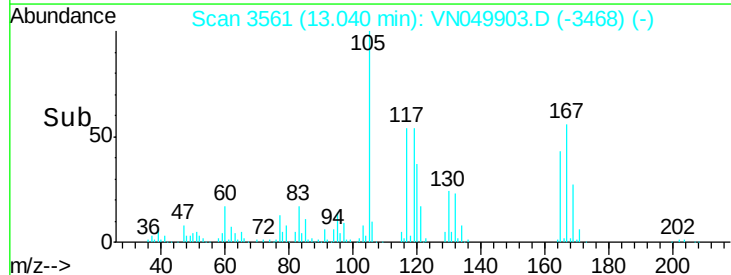
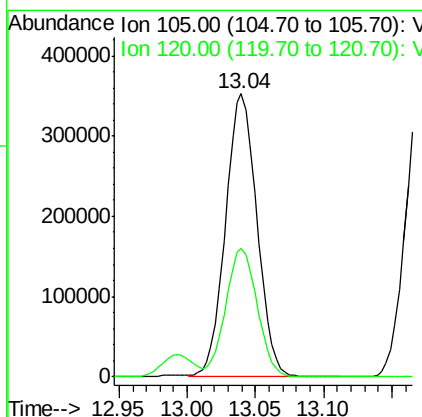
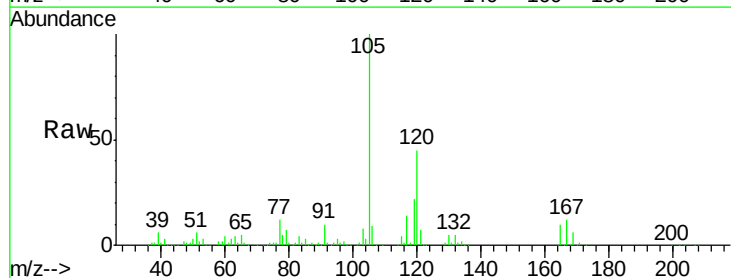
Manual Integrations
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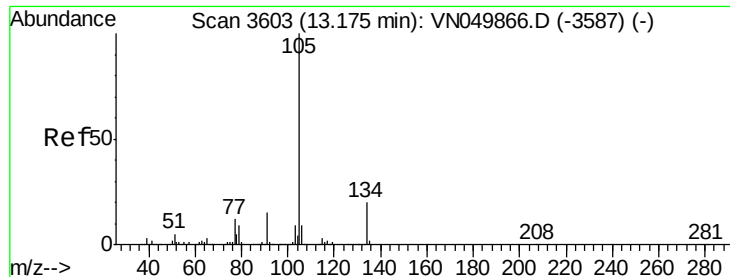
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 22.16 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.8	22.7	68.1





#85

sec-Butylbenzene

Concen: 21.73 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS05

Tot Ion:105 Resp: 633869

Ion Ratio Lower Upper

105 100

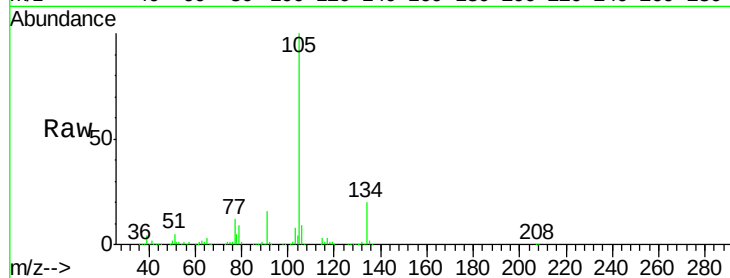
134 20.0 10.1 30.1

Manual Integrations

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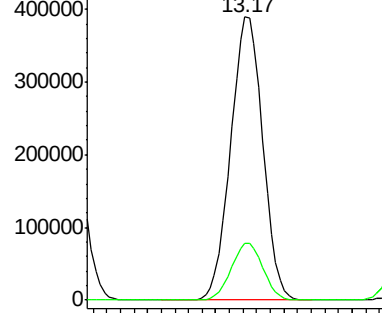
MMDadoda

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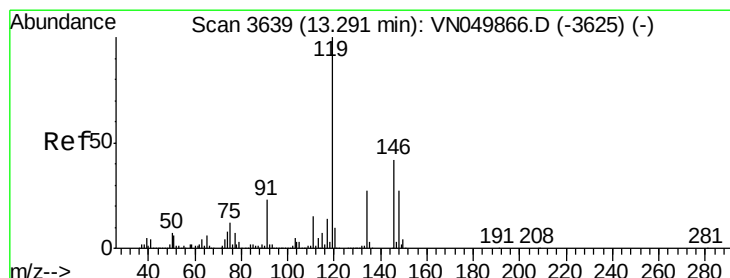
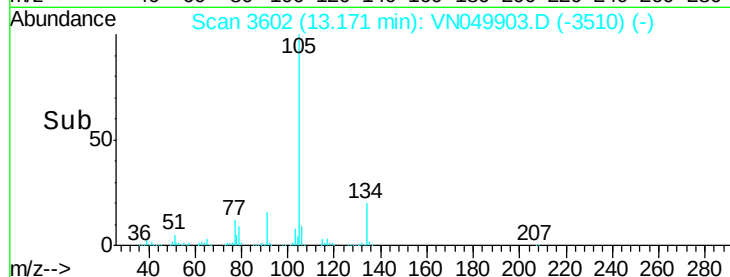


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 21.65 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

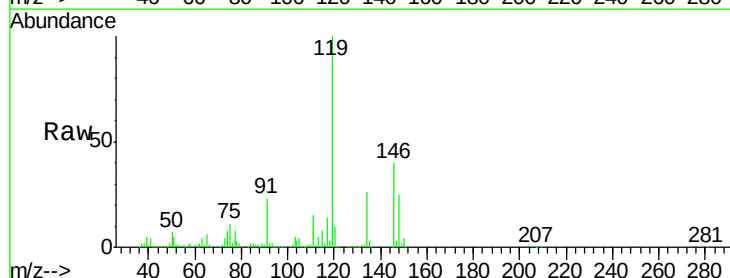
Tgt Ion:119 Resp: 538456

Ion Ratio Lower Upper

119 100

134 25.9 13.3 39.9

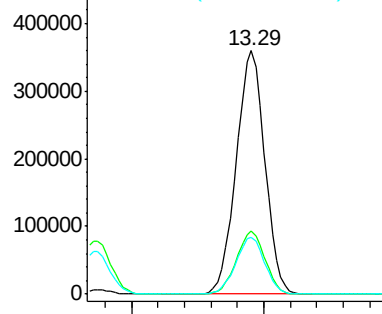
91 23.5 11.4 34.1



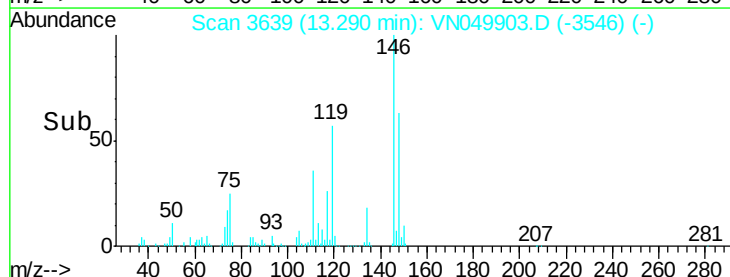
Abundance Ion 119.00 (118.70 to 119.70): V

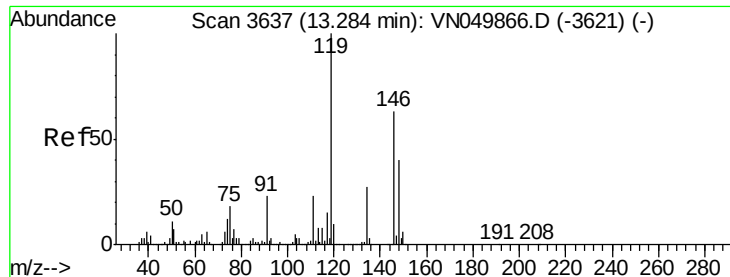
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time-->





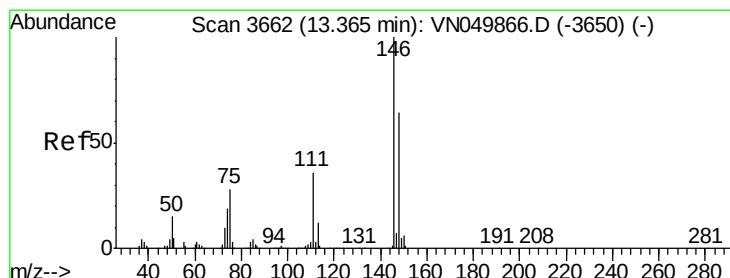
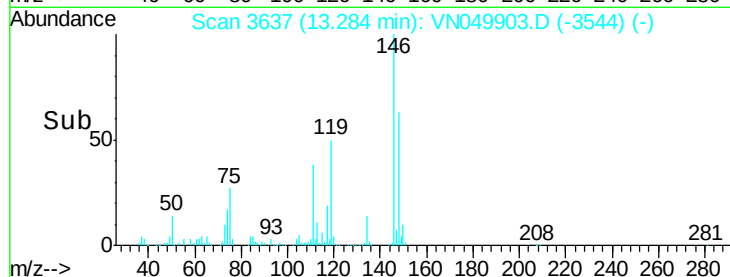
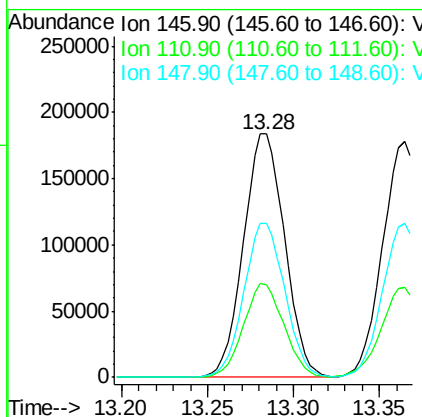
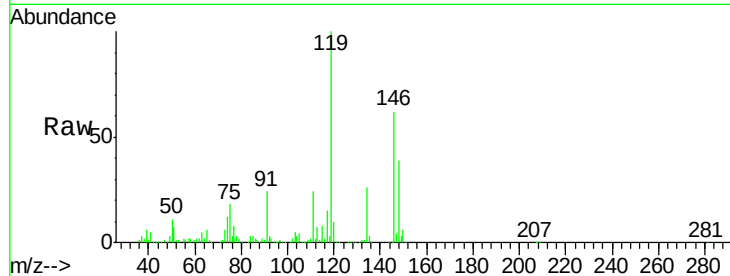
#87
 1,3-Dichlorobenzene
 Concen: 20.26 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Tot Ion	Ratio	Resp	Lower	Upper
146	100	305614		
111	37.8	19.0	57.0	
148	62.9	32.5	97.5	

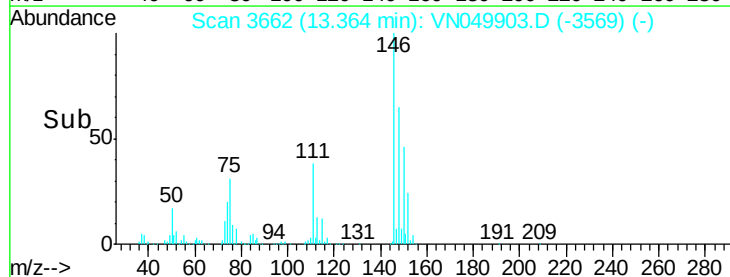
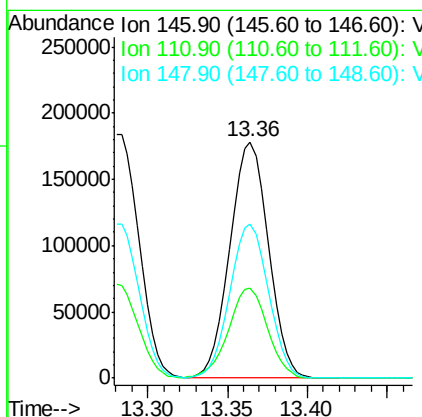
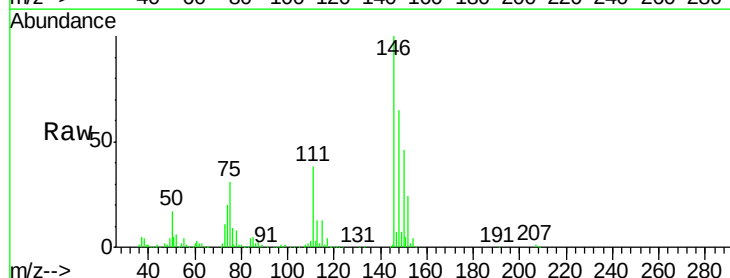
Manual Integrations
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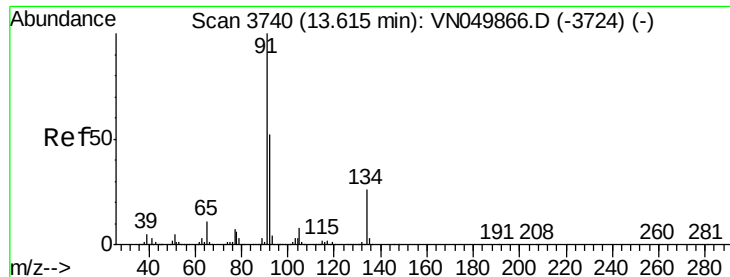
MMDadoda
 7/19/2018 4:29:02 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.37 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	293065		
111	38.8	18.9	56.5	
148	65.4	32.1	96.3	





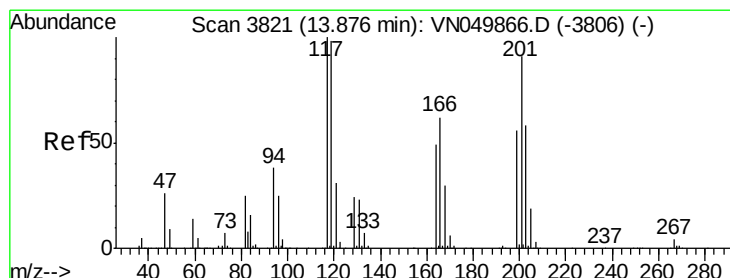
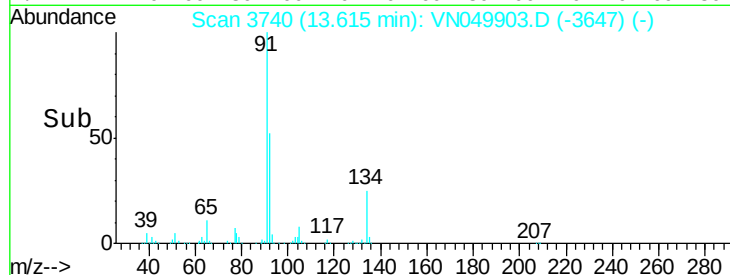
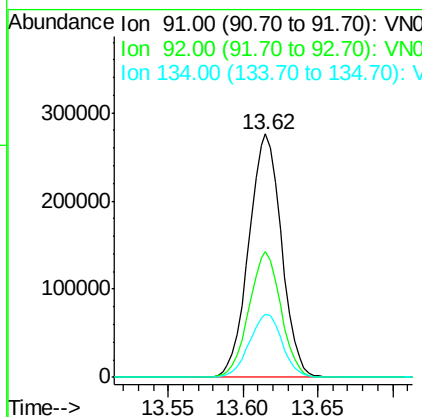
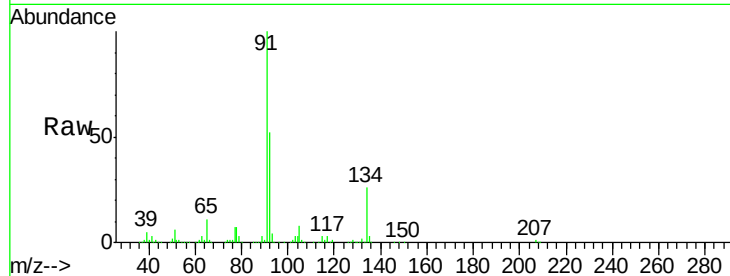
#89
n-Butylbenzene
Concen: 20.39 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS05

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.6	25.8	77.3
134	26.0	13.0	38.9

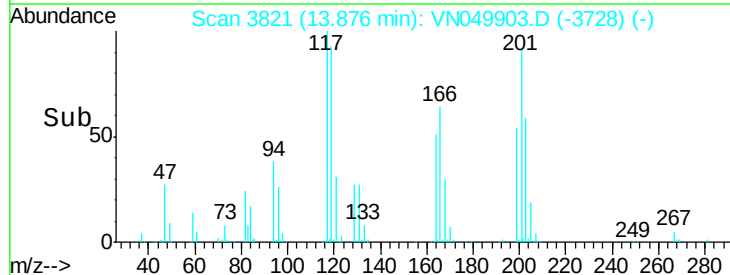
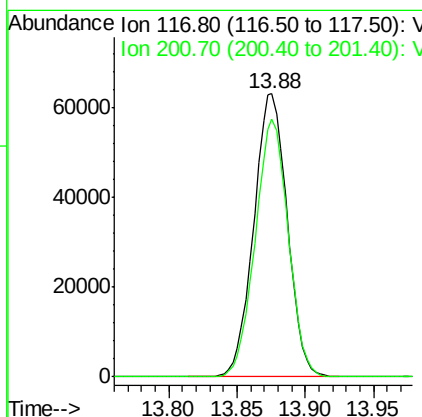
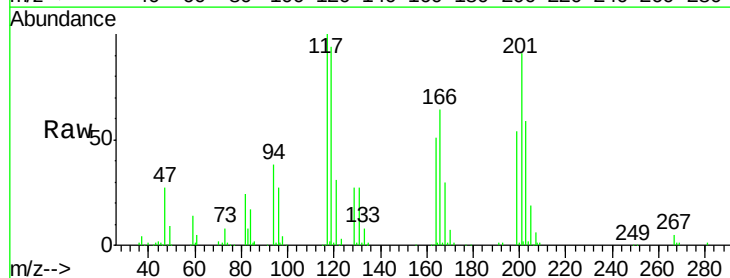
Manual Integrations
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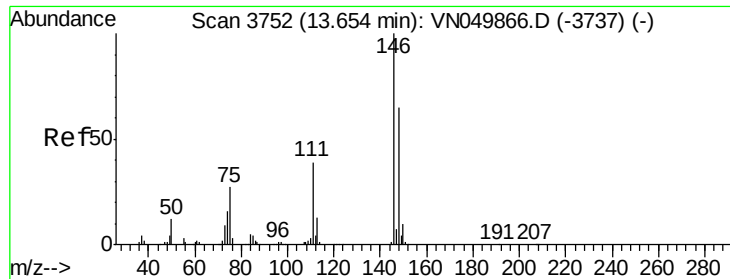
MMDadoda
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#90
Hexachloroethane
Concen: 19.30 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. -0.00 min
Lab File: VN049903.D
Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.4	45.3	135.8





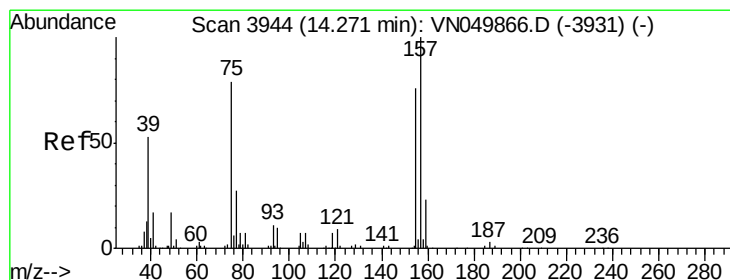
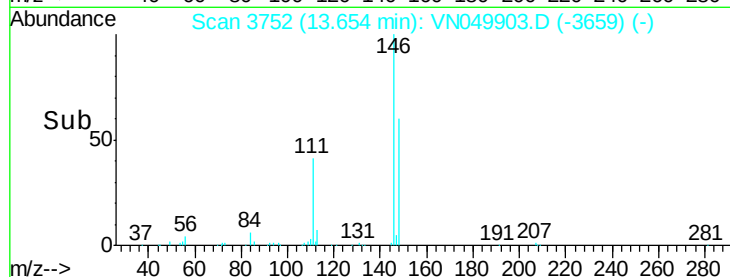
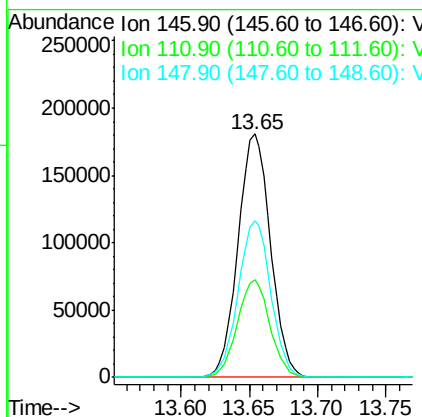
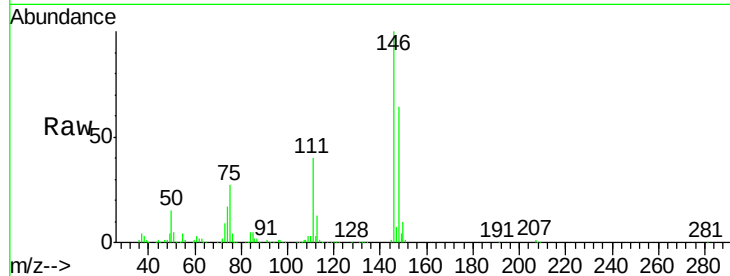
#91
 1,2-Dichlorobenzene
 Concen: 20.15 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Tot Ion	Ratio	Resp	Lower	Upper
146	100	298852		
111	39.9	19.7	59.1	
148	64.5	32.0	96.2	

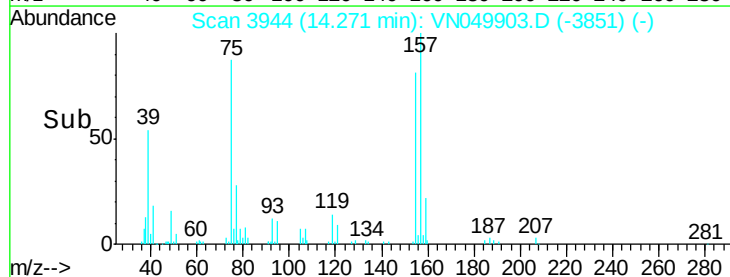
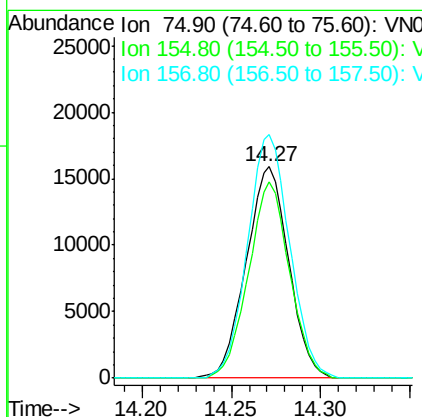
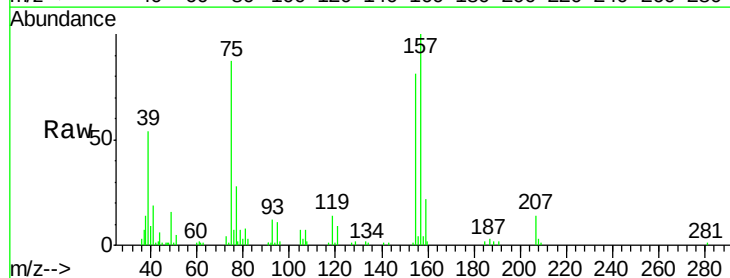
Manual Integrations
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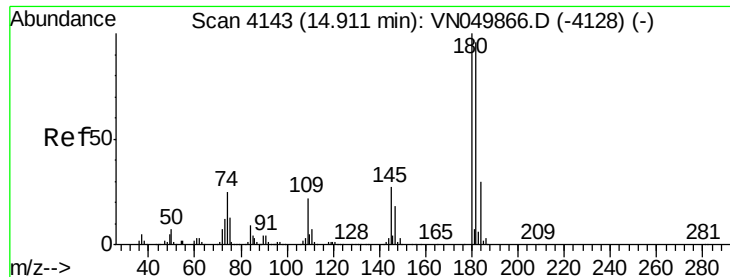
MMDadoda
 7/19/2018 4:29:02 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.20 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	26424		
155	89.7	45.7	137.1	
157	114.6	56.9	170.7	





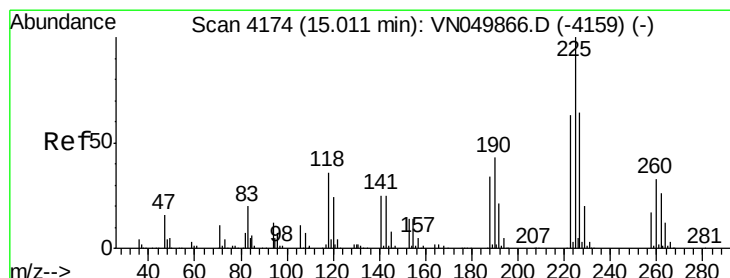
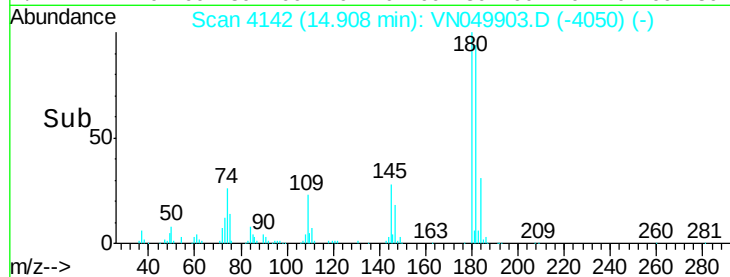
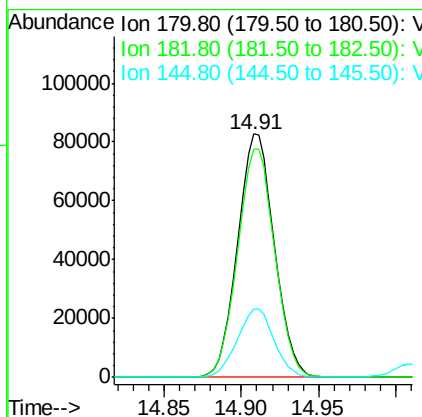
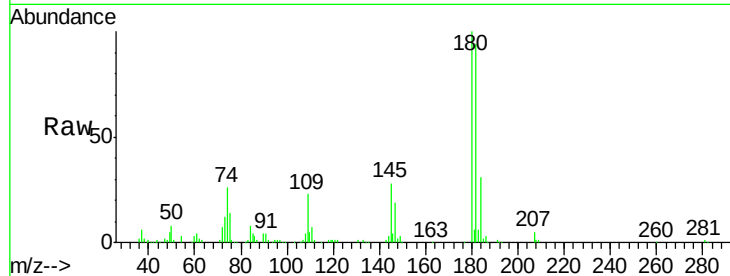
#93
 1,2,4-Trichlorobenzene
 Concen: 18.97 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS05

Tot Ion	Ratio	Resp	Lower	Upper
180	100	136240		
182	94.9	47.3	141.9	
145	28.2	14.4	43.0	

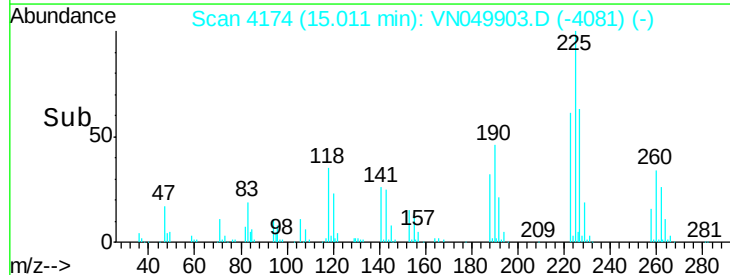
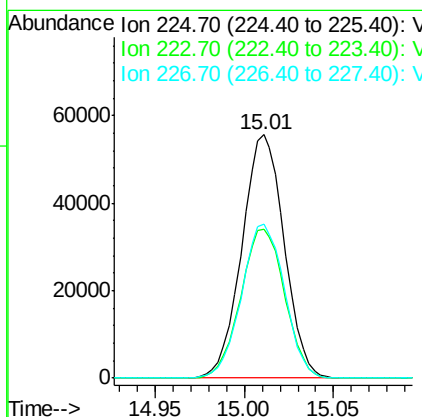
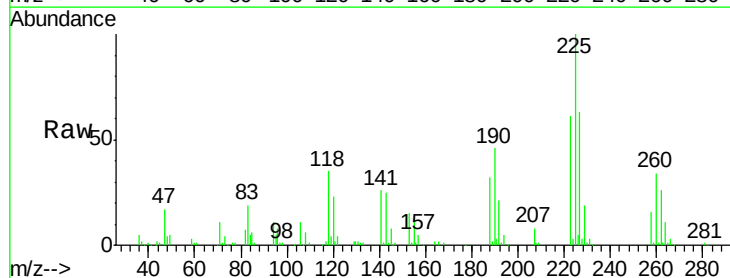
Manual Integrations
 APPROVED

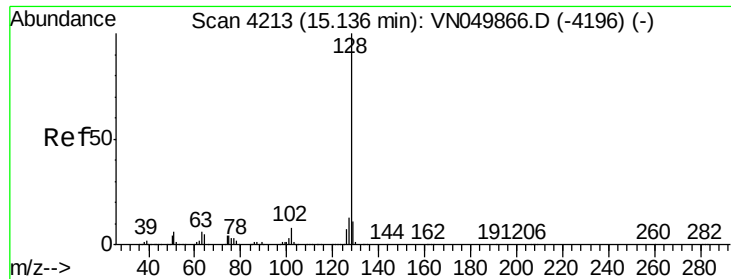
MMDadoda
 7/19/2018 4:29:02 PM



#94
 Hexachlorobutadiene
 Concen: 18.90 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049903.D
 Acq: 19 Jul 2018 5:18

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	91863		
223	63.6	30.9	92.7	
227	64.3	31.8	95.4	





#95

Naphthalene

Concen: 17.99 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Instrument :

MSVOA_N

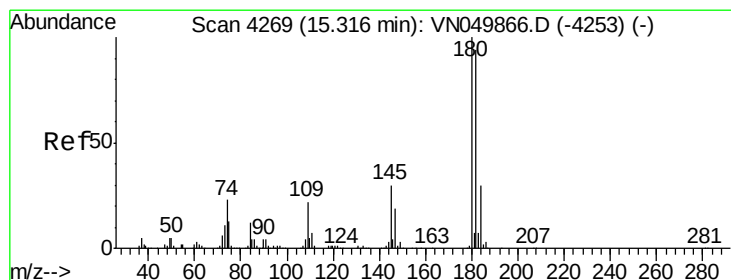
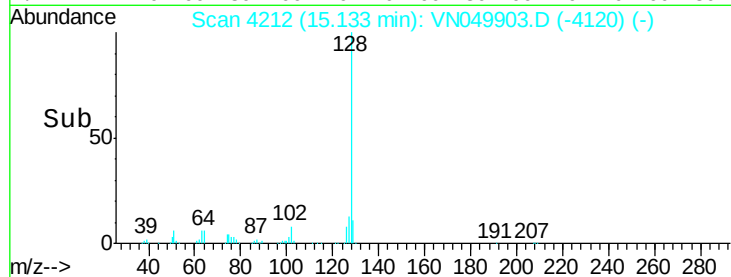
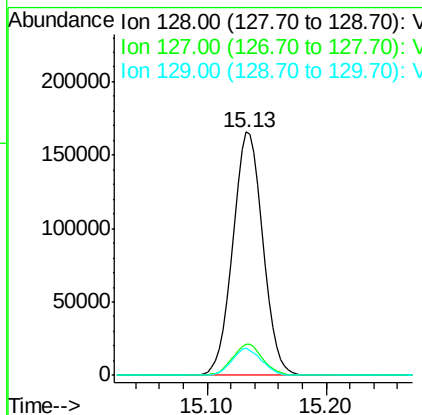
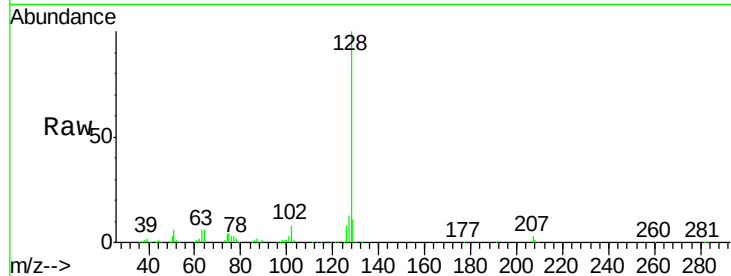
ClientSampleId :

VN0718WBS05

Tot Ion:	128	Resp:	289902
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.4	15.6
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
7/19/2018 4:29:02 PM



#96

1,2,3-Trichlorobenzene

Concen: 19.88 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049903.D

Acq: 19 Jul 2018 5:18

Tgt Ion:	180	Resp:	141513
Ion Ratio	Lower	Upper	
180	100		
182	95.4	47.4	142.2
145	29.5	15.2	45.6

