

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
 Data File : VN049902.D
 Acq On : 19 Jul 2018 4:53
 Operator : MD\SY
 Sample : VN0718WBS04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS04

Manual Integrations
 APPROVED

MMDadoda
 7/19/2018 4:29:01 PM

Quant Time: Jul 19 08:30:50 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	604427	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	915714	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	816301	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	408713	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	429593	51.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.42%	
35) Dibromofluoromethane	7.59	113	383936	49.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.88%	
50) Toluene-d8	10.09	98	1413050	50.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.90%	
62) 4-Bromofluorobenzene	12.40	95	461379	47.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	115966	20.18	ug/l	97
3) Chloromethane	2.06	50	152356	18.47	ug/l	100
4) Vinyl Chloride	2.18	62	171192	19.45	ug/l	100
5) Bromomethane	2.57	94	101716	19.51	ug/l	97
6) Chloroethane	2.70	64	108752	18.92	ug/l	100
7) Trichlorofluoromethane	3.01	101	231723	19.16	ug/l	100
8) Diethyl Ether	3.41	74	84599	20.05	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	142237	19.07	ug/l	98
10) Methyl Iodide	3.95	142	195779	19.56	ug/l	99
11) Tert butyl alcohol	4.80	59	54382	91.89	ug/l	99
12) 1,1-Dichloroethene	3.73	96	129337	19.74	ug/l	98
13) Acrolein	3.61	56	33329	87.39	ug/l	95
14) Allyl chloride	4.32	41	201037	19.46	ug/l	99
15) Acrylonitrile	5.00	53	251941	96.79	ug/l	98
16) Acetone	3.82	43	187876	87.35	ug/l	99
17) Carbon Disulfide	4.05	76	360127	18.37	ug/l	99
18) Methyl Acetate	4.33	43	147014	21.28	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	374146	20.75	ug/l	99
20) Methylene Chloride	4.55	84	151579	18.53	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	138829	19.95	ug/l	98
22) Diisopropyl ether	5.95	45	450203	21.36	ug/l	99
23) Vinyl Acetate	5.90	43	1493000	100.94	ug/l	100
24) 1,1-Dichloroethane	5.85	63	269368	19.91	ug/l	100
25) 2-Butanone	6.84	43	286336	93.15	ug/l	97
26) 2,2-Dichloropropane	6.82	77	164325	15.61	ug/l	96
27) cis-1,2-Dichloroethene	6.83	96	159385	20.87	ug/l	97
28) Bromochloromethane	7.20	49	128192	20.98	ug/l	98
29) Tetrahydrofuran	7.22	42	191286	98.78	ug/l	99
30) Chloroform	7.37	83	283314	20.39	ug/l	98
31) Cyclohexane	7.65	56	221814	20.14	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	237039	19.74	ug/l	98
36) 1,1-Dichloropropene	7.79	75	198988	19.54	ug/l	100
37) Ethyl Acetate	6.93	43	132968	19.02	ug/l	99
38) Carbon Tetrachloride	7.77	117	207590	19.03	ug/l	98

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	200238	19.04	ug/l	96
40) Benzene	8.04	78	614431	19.80	ug/l	99
41) Methacrylonitrile	7.18	41	64111	18.29	ug/l	91
42) 1,2-Dichloroethane	8.13	62	198818	19.34	ug/l	100
43) Isopropyl Acetate	8.17	43	257245	21.06	ug/l	100
44) Trichloroethene	8.83	130	161745	19.88	ug/l	100
45) 1,2-Dichloropropane	9.12	63	164761	19.68	ug/l	99
46) Dibromomethane	9.21	93	98549	18.98	ug/l	99
47) Bromodichloromethane	9.40	83	211803	19.73	ug/l	97
48) Methyl methacrylate	9.20	41	114630	18.71	ug/l	99
49) 1,4-Dioxane	9.20	88	33100	380.81	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	663849	97.22	ug/l	100
52) Toluene	10.16	92	379300	20.49	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	196455	18.50	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	227637	19.40	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	143154	18.72	ug/l	96
56) Ethyl methacrylate	10.43	69	173414	18.32	ug/l	98
57) 1,3-Dichloropropane	10.71	76	238923	19.84	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	411218	100.94	ug/l	99
59) 2-Hexanone	10.75	43	435943	95.05	ug/l	96
60) Dibromochloromethane	10.90	129	160574	19.15	ug/l	99
61) 1,2-Dibromoethane	11.01	107	136353	19.08	ug/l	97
64) Tetrachloroethene	10.63	164	148514	20.25	ug/l	98
65) Chlorobenzene	11.43	112	406866	19.84	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	156639	19.72	ug/l	99
67) Ethyl Benzene	11.51	91	677513	20.36	ug/l	100
68) m/p-Xylenes	11.62	106	529619	42.05	ug/l	99
69) o-Xylene	11.95	106	249372	20.61	ug/l	99
70) Styrene	11.96	104	409114	20.88	ug/l	100
71) Bromoform	12.13	173	109586	19.28	ug/l #	98
73) Isopropylbenzene	12.25	105	671479	21.63	ug/l	100
74) N-amyl acetate	12.07	43	190262	20.13	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	180649	19.42	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	146469m	19.10	ug/l	
77) Bromobenzene	12.53	156	177390	20.69	ug/l	98
78) n-propylbenzene	12.59	91	766004	21.70	ug/l	100
79) 2-Chlorotoluene	12.67	91	463469	21.39	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	551759	22.17	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	42839	17.47	ug/l	96
82) 4-Chlorotoluene	12.77	91	468718	21.56	ug/l	100
83) tert-Butylbenzene	12.99	119	467352	21.39	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	565318	22.43	ug/l	100
85) sec-Butylbenzene	13.17	105	627142	21.72	ug/l	100
86) p-Isopropyltoluene	13.29	119	532483	21.63	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	306621	20.53	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	298074	19.90	ug/l	99
89) n-Butylbenzene	13.62	91	415078	20.42	ug/l	99
90) Hexachloroethane	13.87	117	104384	18.89	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	299345	20.38	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	27958	19.45	ug/l	96

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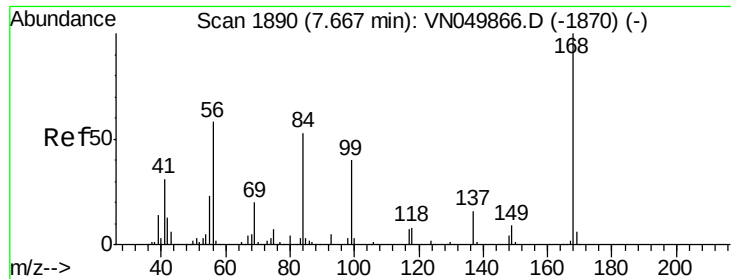
Manual Integrations
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MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	137412	19.27	ug/l	99
94) Hexachlorobutadiene	15.01	225	91740	19.06	ug/l	98
95) Naphthalene	15.13	128	291130	18.18	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	139449	19.79	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS04

Tot Ion:168 Resp: 604427

Ion Ratio Lower Upper

168 100

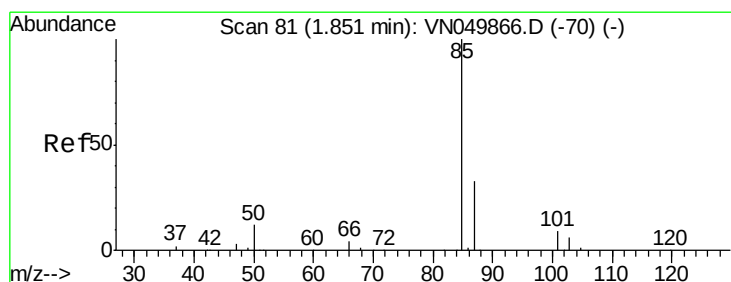
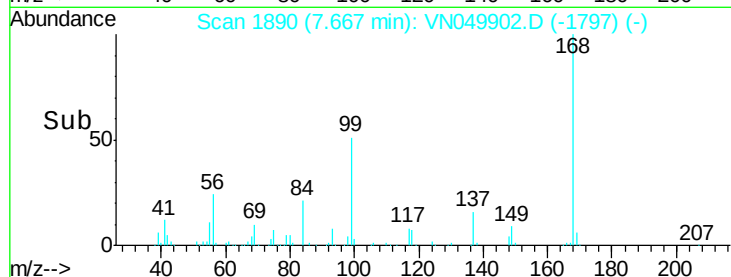
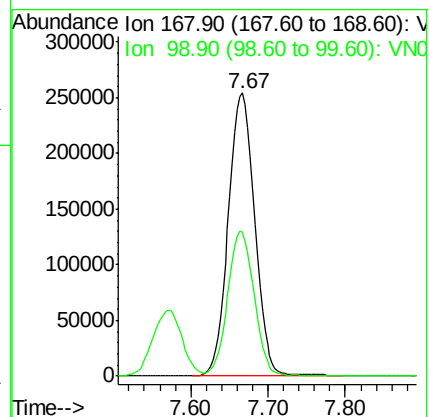
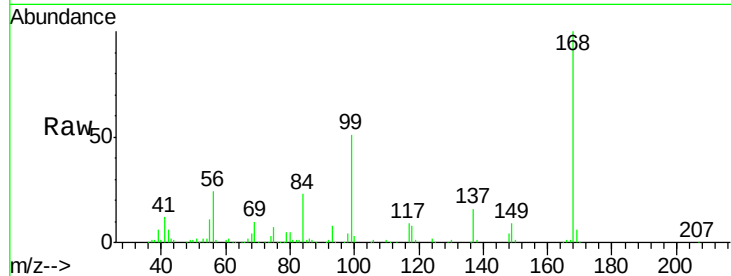
99 50.6 40.6 61.0

Manual Integrations

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7/19/2018 4:29:01 PM



#2

Dichlorodifluoromethane

Concen: 20.18 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049902.D

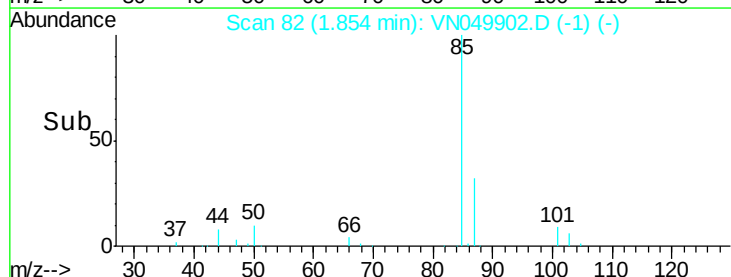
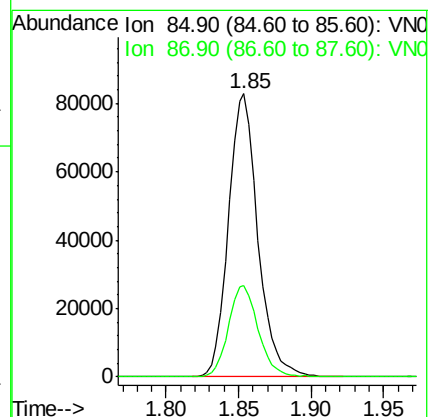
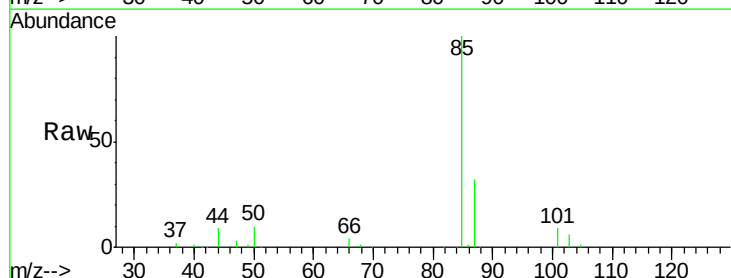
Acq: 19 Jul 2018 4:53

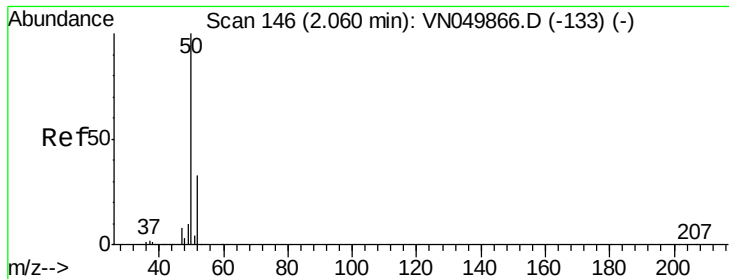
Tgt Ion: 85 Resp: 115966

Ion Ratio Lower Upper

85 100

87 32.4 15.4 46.1





#3

Chloromethane

Concen: 18.47 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS04

Tot Ion: 50 Resp: 152356

Ion Ratio Lower Upper

50 100

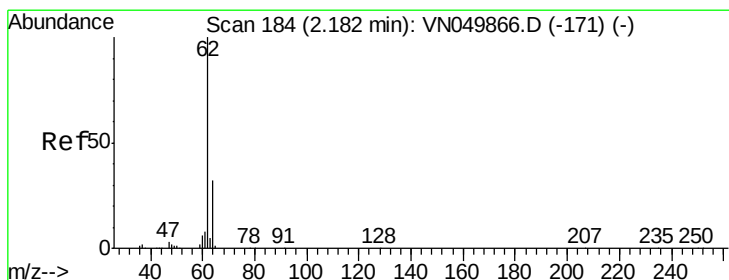
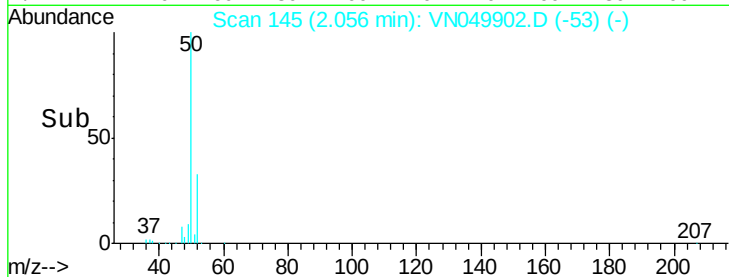
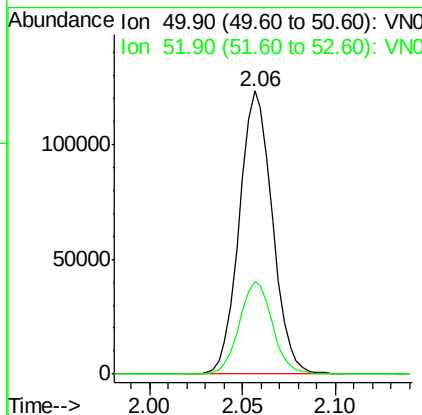
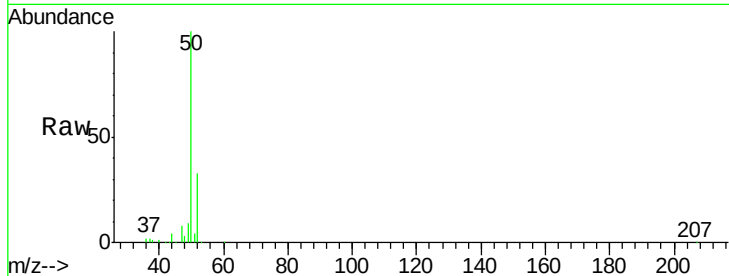
52 32.6 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.45 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN049902.D

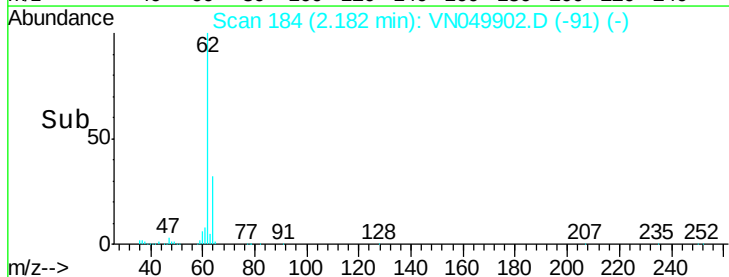
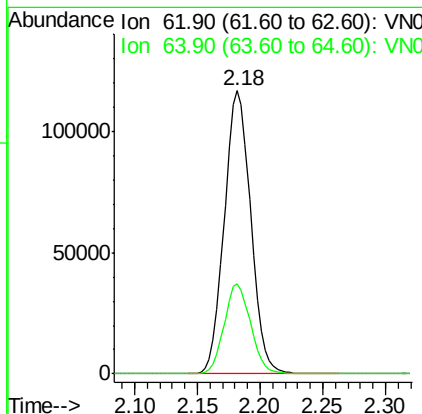
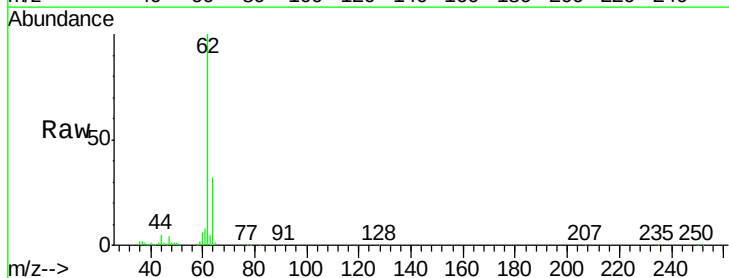
Acq: 19 Jul 2018 4:53

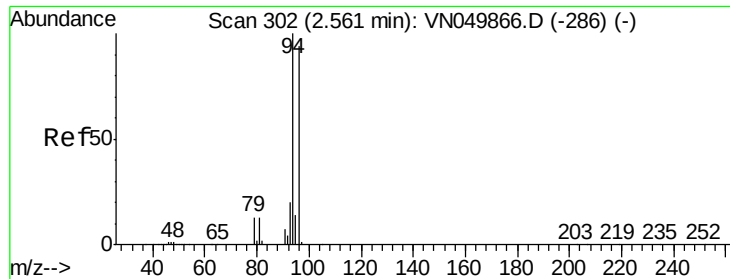
Tgt Ion: 62 Resp: 171192

Ion Ratio Lower Upper

62 100

64 31.8 25.4 38.0





#5

Bromomethane

Concen: 19.51 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS04

Tot Ion: 94 Resp: 101716

Ion Ratio Lower Upper

94 100

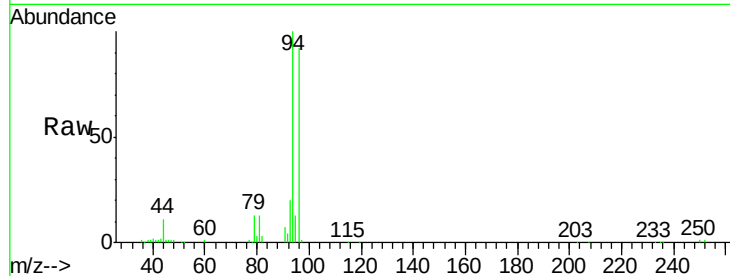
96 91.9 75.7 113.5

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

60000

50000

40000

30000

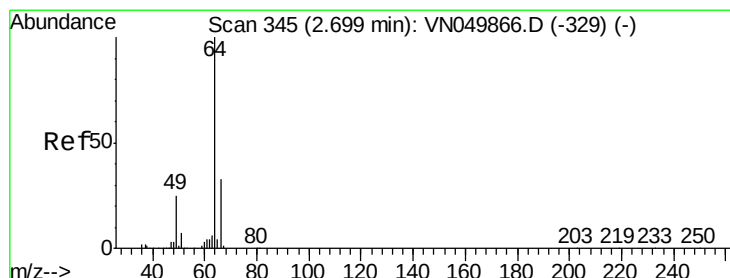
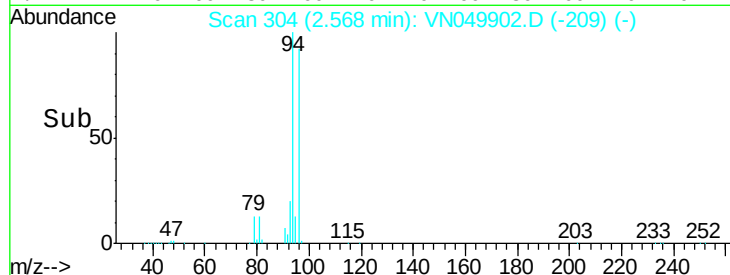
20000

10000

0

Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 18.92 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN049902.D

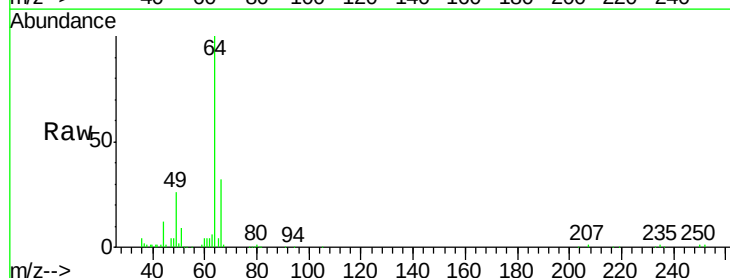
Acq: 19 Jul 2018 4:53

Tgt Ion: 64 Resp: 108752

Ion Ratio Lower Upper

64 100

66 31.8 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.70

60000

50000

40000

30000

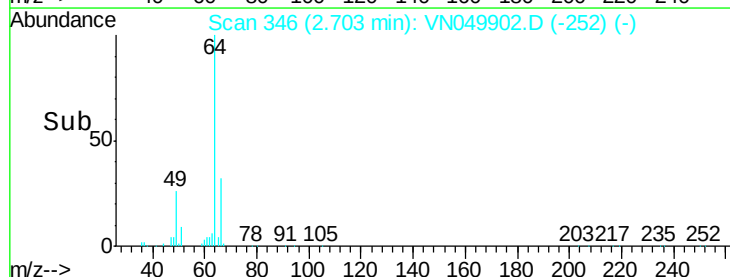
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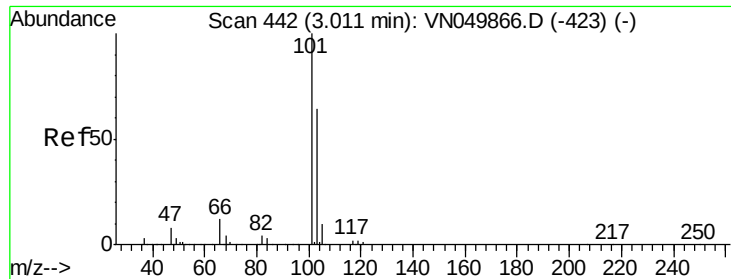
10000

0

Time-->

2.60 2.65 2.70 2.75 2.80





#7

Trichlorofluoromethane

Concen: 19.16 ug/l

RT: 3.01 min Scan# 443

Delta R.T. 0.00 min

Lab File: VN049902.D

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Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS04

Tot Ion:101 Resp: 231723

Ion Ratio Lower Upper

101 100

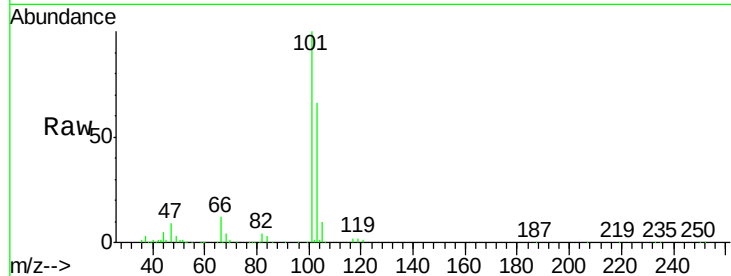
103 65.8 52.8 79.2

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7/19/2018 4:29:01 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.01

120000

100000

80000

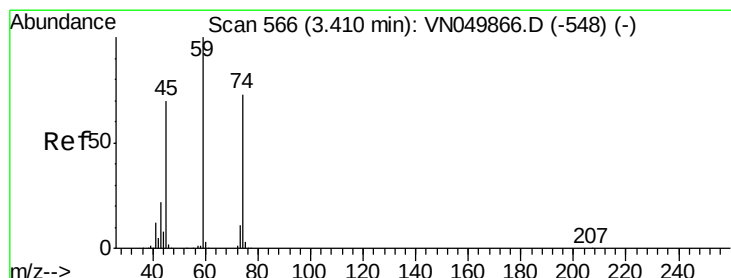
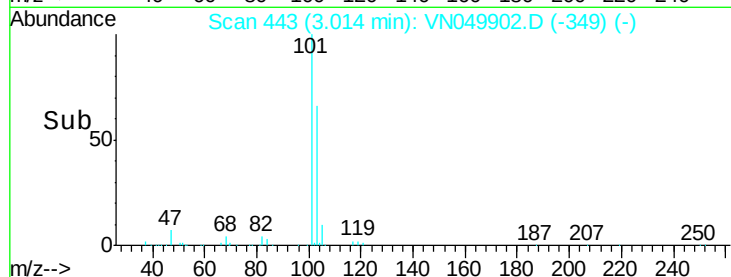
60000

40000

20000

0

Time--> 2.90 2.95 3.00 3.05 3.10



#8

Diethyl Ether

Concen: 20.05 ug/l

RT: 3.41 min Scan# 566

Delta R.T. -0.00 min

Lab File: VN049902.D

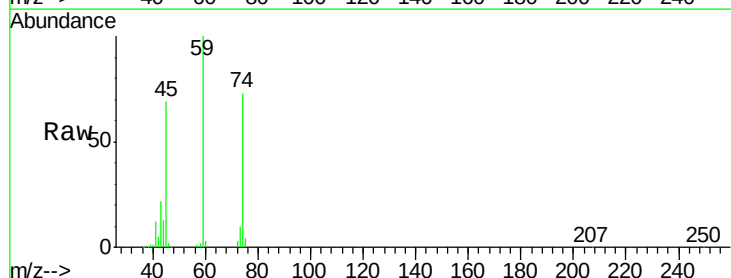
Acq: 19 Jul 2018 4:53

Tgt Ion: 74 Resp: 84599

Ion Ratio Lower Upper

74 100

45 96.8 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

40000

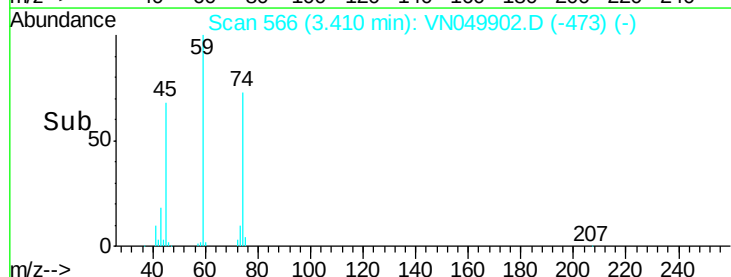
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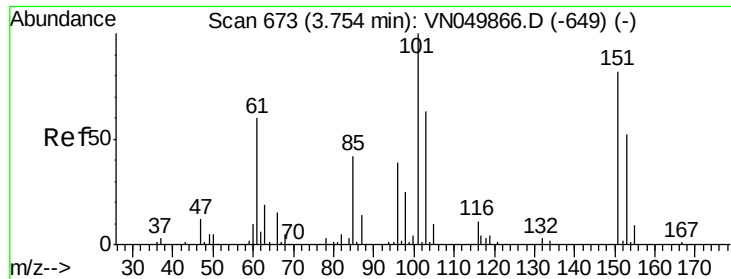
20000

10000

0

Time--> 3.30 3.35 3.40 3.45 3.50





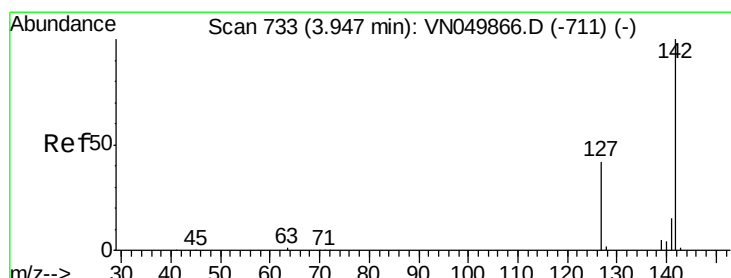
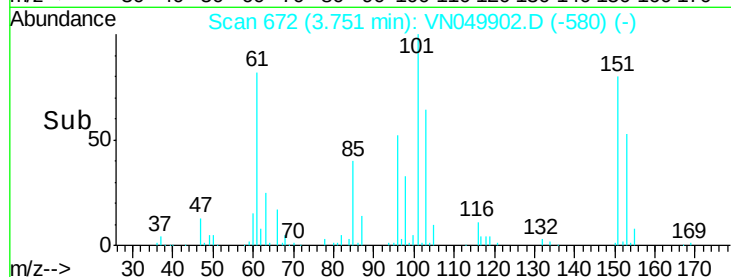
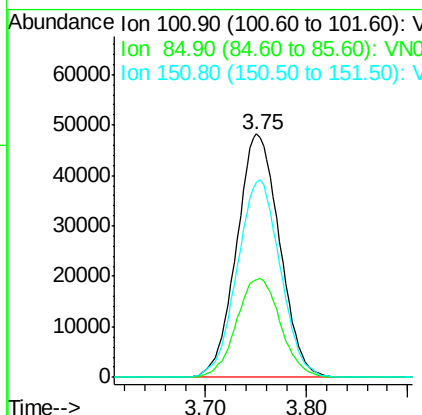
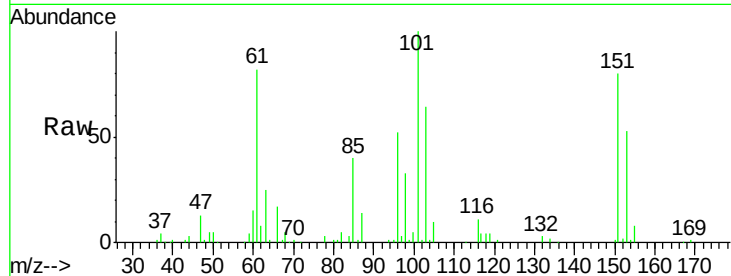
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.07 ug/l
RT: 3.75 min Scan# 672
Delta R.T. -0.00 min
Lab File: VN049902.D
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Tot Ion	Ratio	Resp	Lower	Upper
101	100	142237		
85	41.7	34.4	51.6	
151	81.5	66.2	99.4	

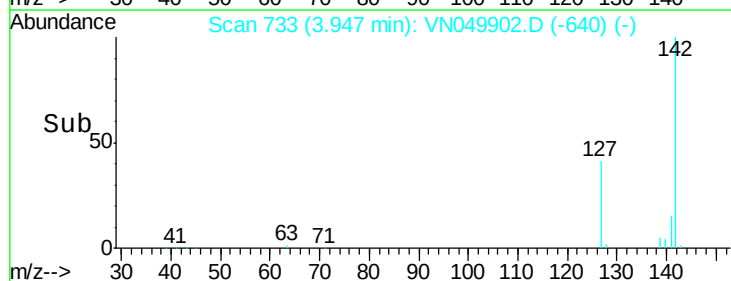
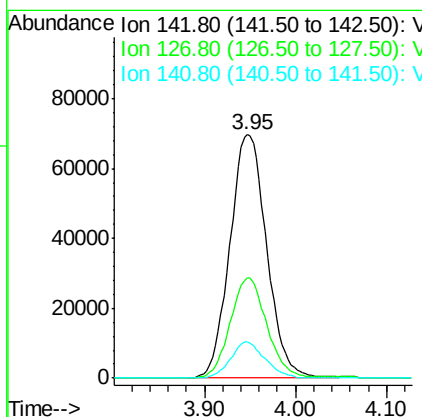
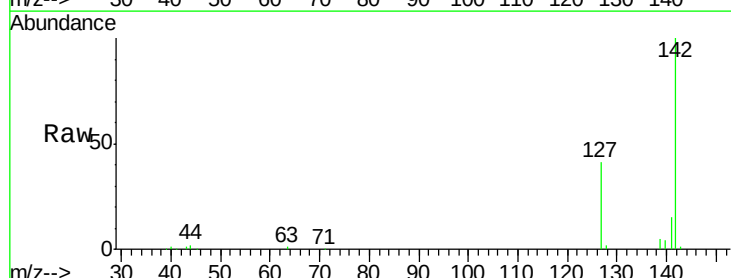
Manual Integrations
APPROVED

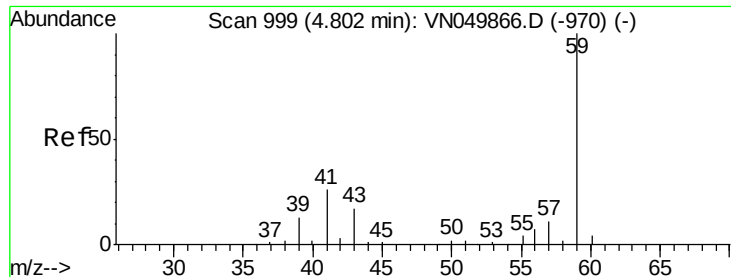
MMDadoda
7/19/2018 4:29:01 PM



#10
Methyl Iodide
Concen: 19.56 ug/l
RT: 3.95 min Scan# 733
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	195779		
127	41.1	32.5	48.7	
141	14.1	11.1	16.7	





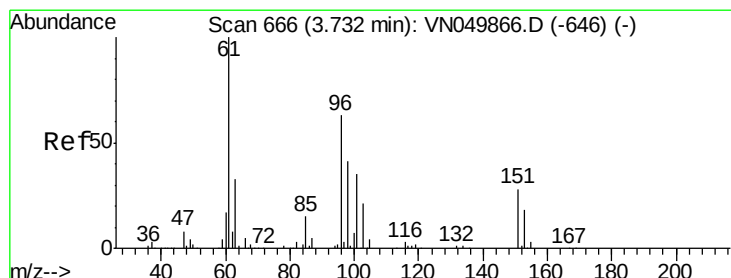
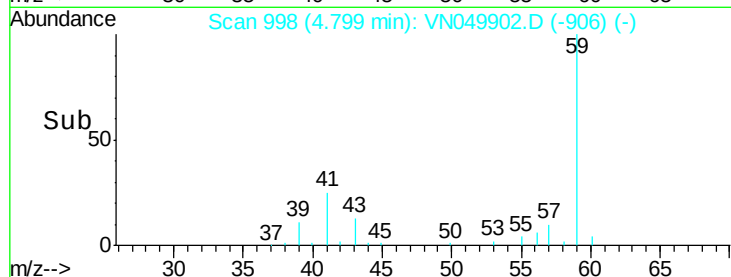
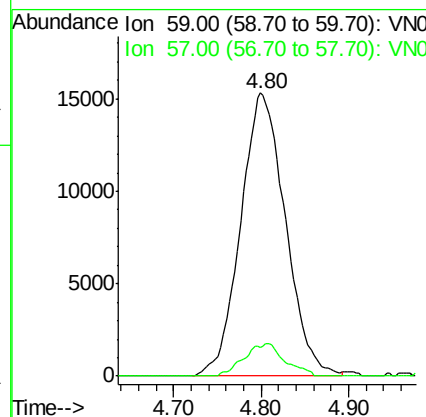
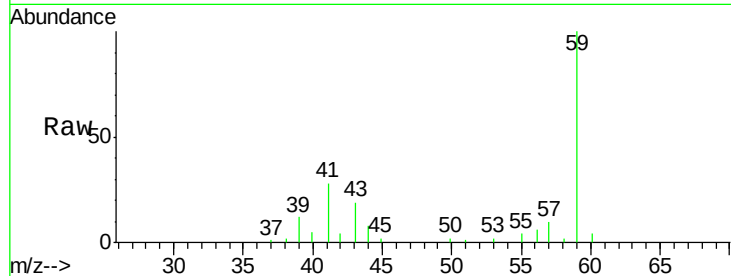
#11
Tert butyl alcohol
Concen: 91.89 ug/l
RT: 4.80 min Scan# 998
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	59	57	Ratio	100	10.4	Resp	54382	Lower	8.5	Upper	12.7
Ion	59	57	Ratio	100	10.4	Resp	54382	Lower	8.5	Upper	12.7

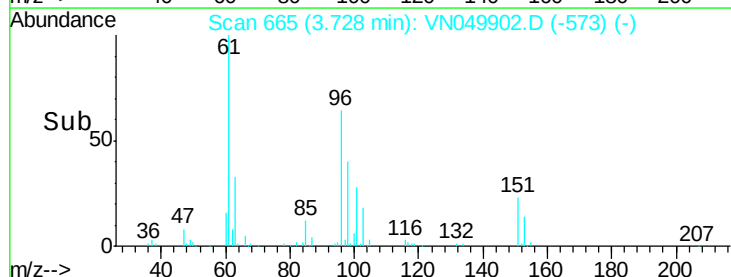
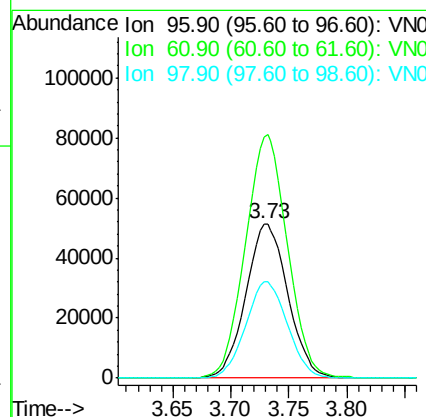
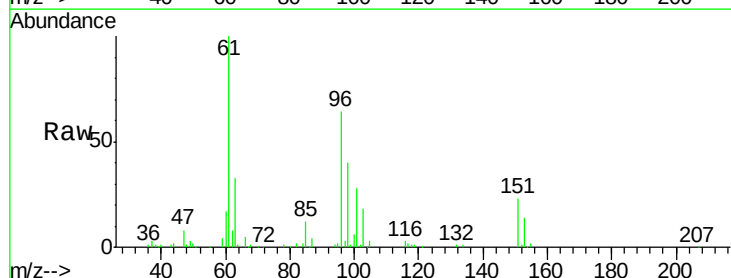
Manual Integrations
APPROVED

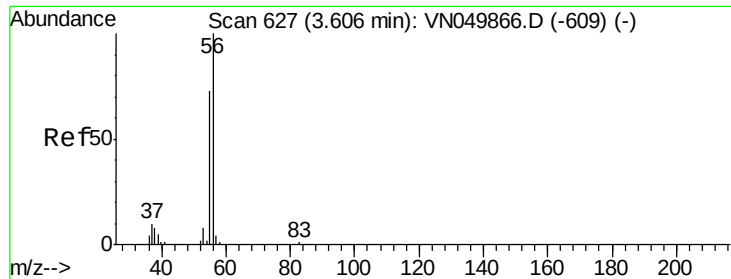
MMDadoda
7/19/2018 4:29:01 PM



#12
1,1-Dichloroethene
Concen: 19.74 ug/l
RT: 3.73 min Scan# 665
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	96	61	98	Resp	129337	Lower	126.5	Upper	189.7	76.6
Ion	96	61	98	Resp	129337	Lower	126.5	Upper	189.7	76.6





#13

Acrolein

Concen: 87.39 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Tot Ion: 56 Resp: 33329

Ion Ratio Lower Upper

56 100

55 73.8 55.8 83.8

Instrument :

MSVOA_N

ClientSampleId :

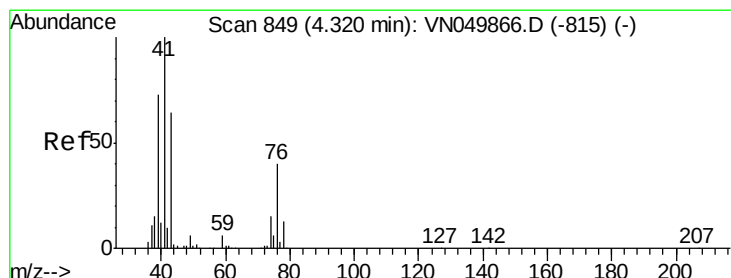
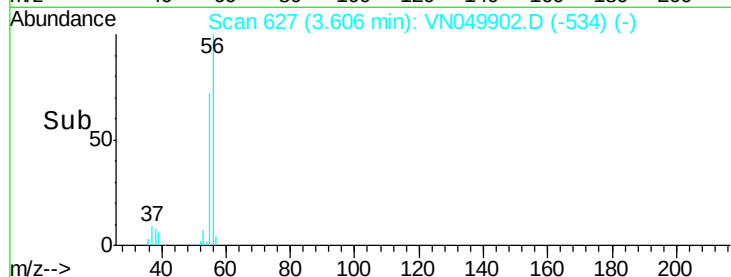
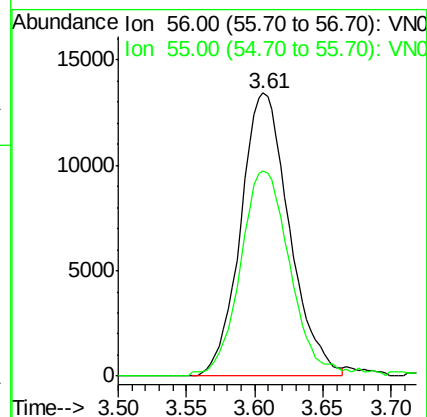
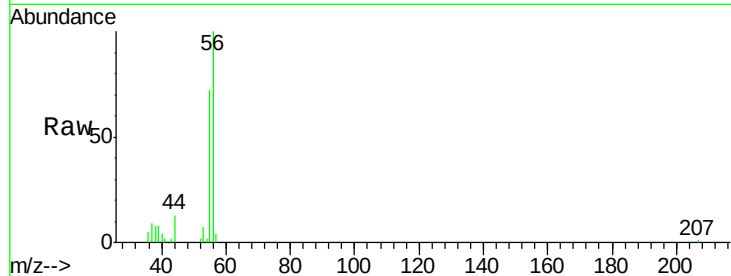
VN0718WBS04

Manual Integrations

APPROVED

MMDadoda

7/19/2018 4:29:01 PM



#14

Allyl chloride

Concen: 19.46 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

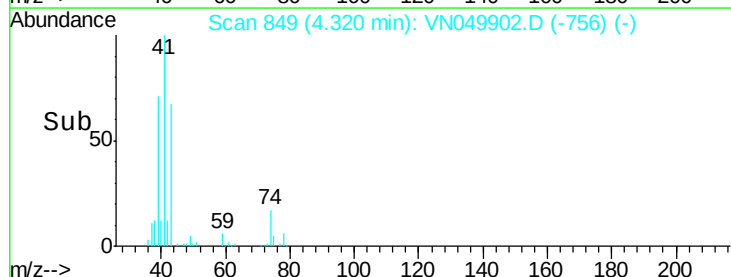
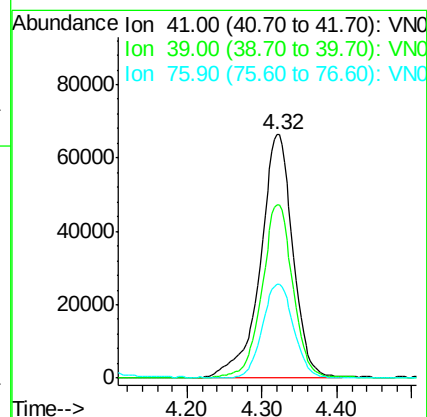
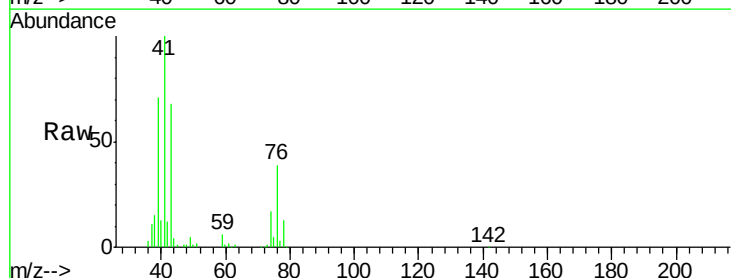
Tgt Ion: 41 Resp: 201037

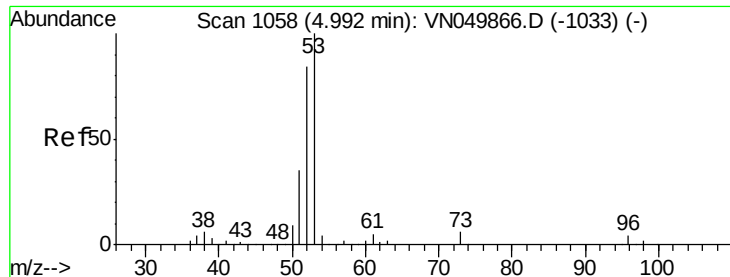
Ion Ratio Lower Upper

41 100

39 67.8 53.2 79.8

76 37.1 29.0 43.6





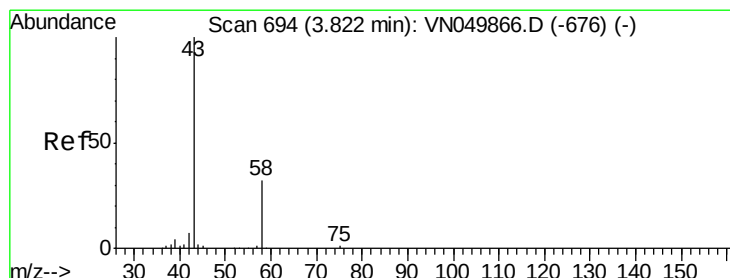
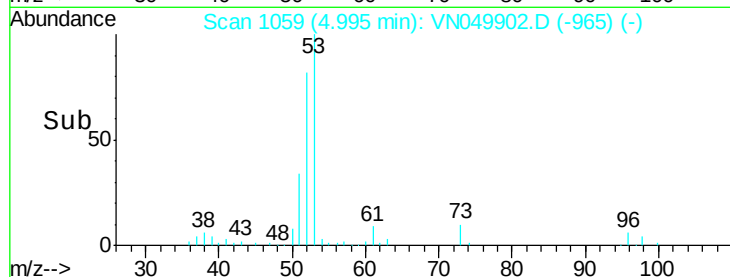
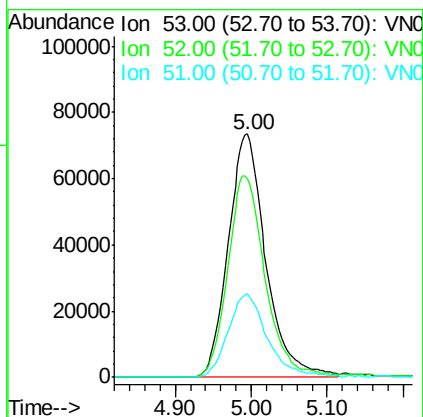
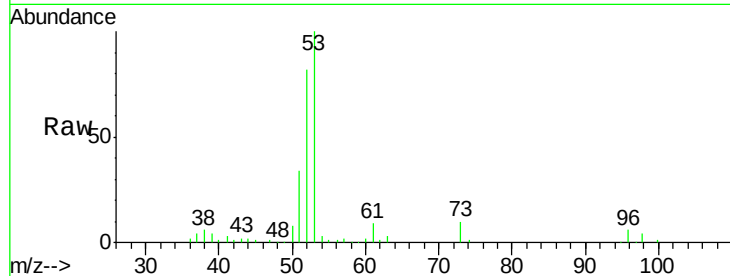
#15
 Acrylonitrile
 Concen: 96.79 ug/l
 RT: 5.00 min Scan# 1059
 Delta R.T. 0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS04

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.5	64.8	97.2
51	35.3	28.9	43.3

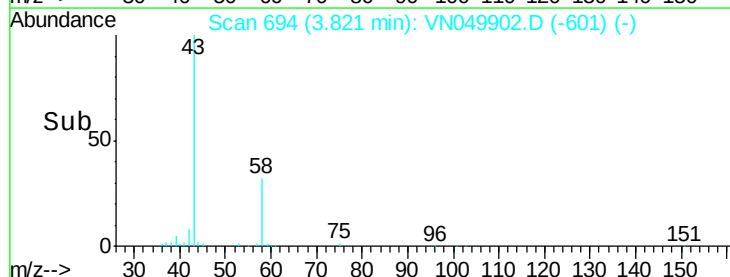
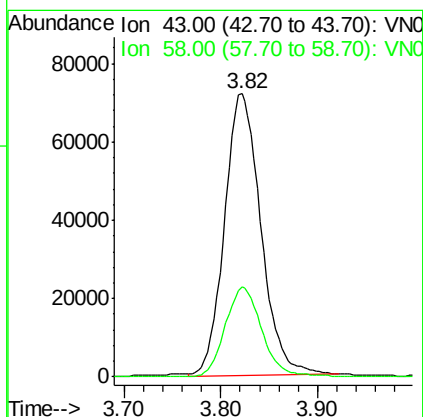
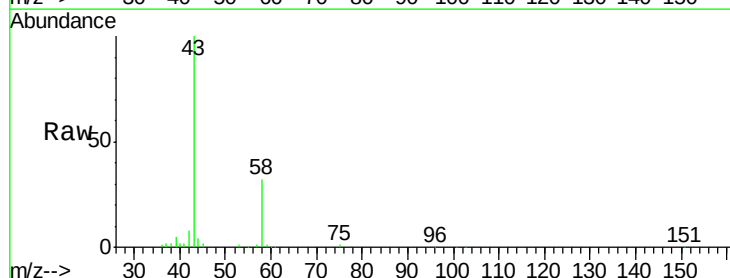
Manual Integrations
 APPROVED

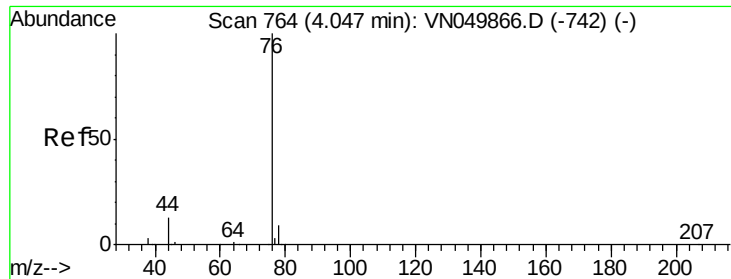
MMDadoda
 7/19/2018 4:29:01 PM



#16
 Acetone
 Concen: 87.35 ug/l
 RT: 3.82 min Scan# 694
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.9	25.9	38.9





#17

Carbon Disulfide

Concen: 18.37 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS04

Tot Ion: 76 Resp: 360127

Ion Ratio Lower Upper

76 100

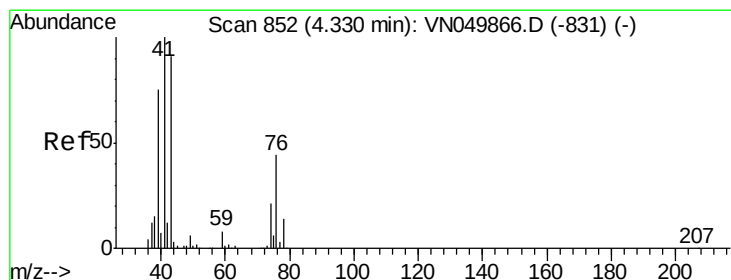
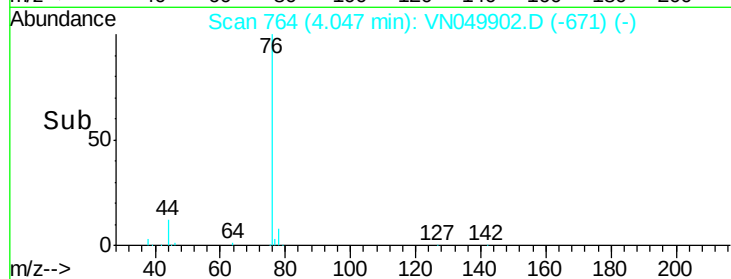
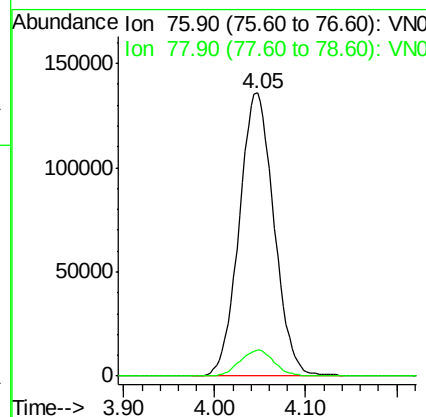
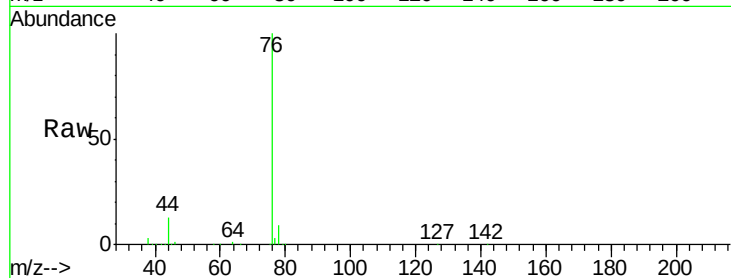
78 9.1 7.1 10.7

Manual Integrations

APPROVED

MMDadoda

7/19/2018 4:29:01 PM



#18

Methyl Acetate

Concen: 21.28 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN049902.D

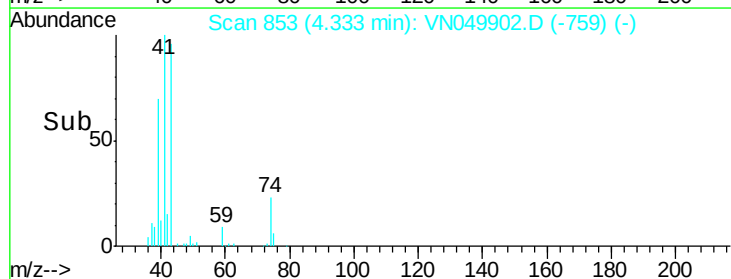
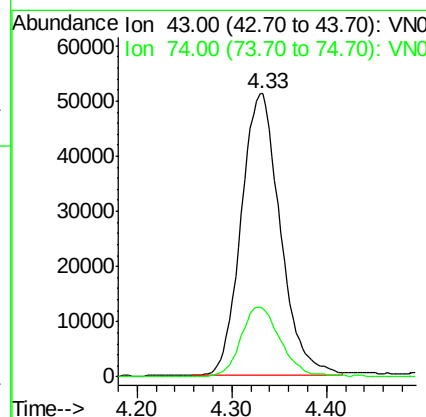
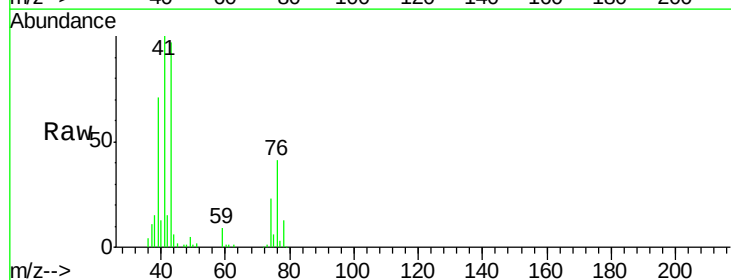
Acq: 19 Jul 2018 4:53

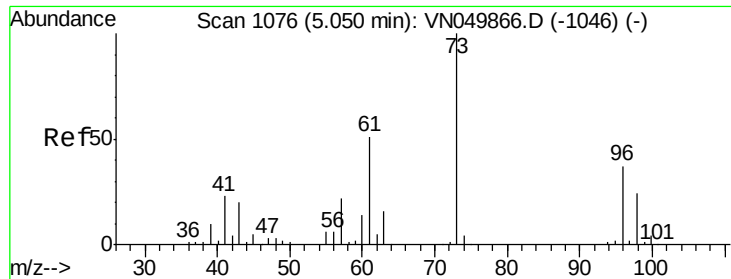
Tgt Ion: 43 Resp: 147014

Ion Ratio Lower Upper

43 100

74 25.2 19.8 29.8





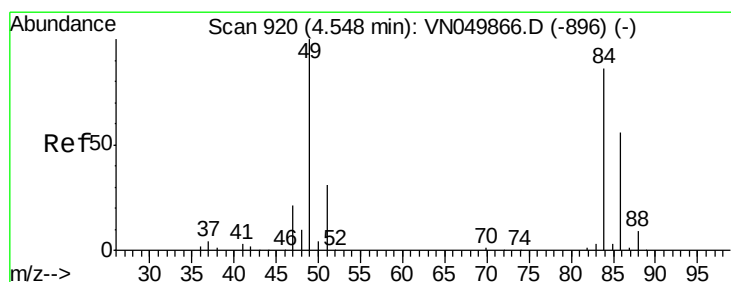
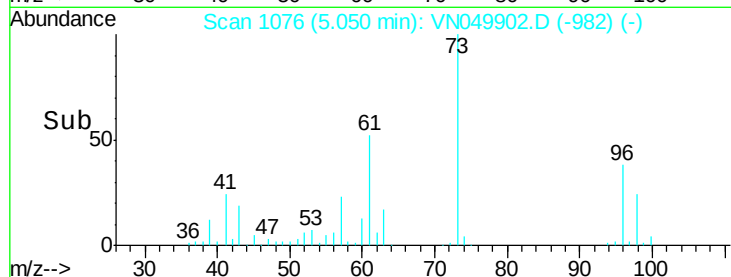
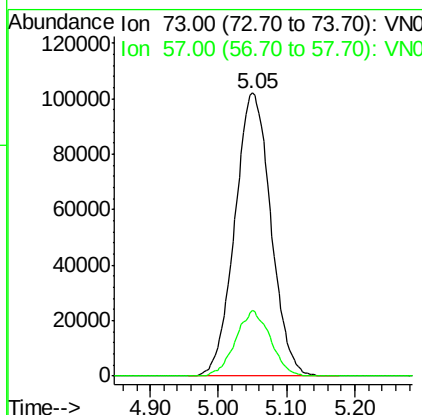
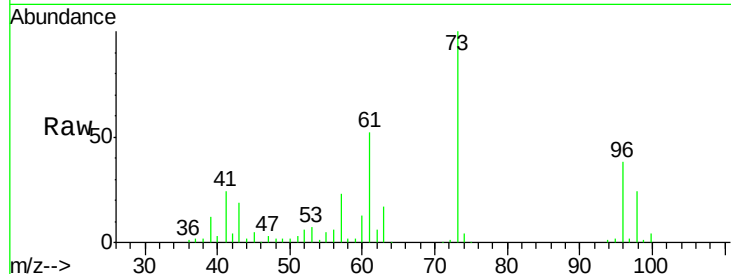
#19
Methvl tert-butvl Ether
Concen: 20.75 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion: 73 Resp: 374146
Ion Ratio Lower Upper
73 100
57 23.2 18.1 27.1

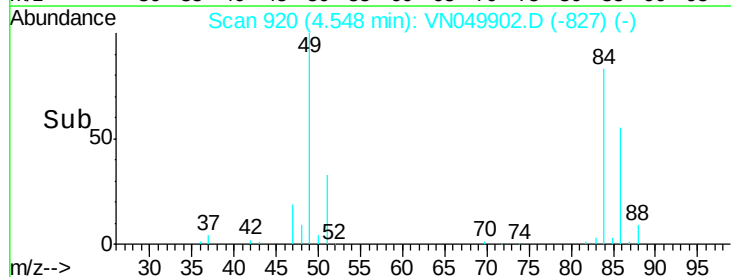
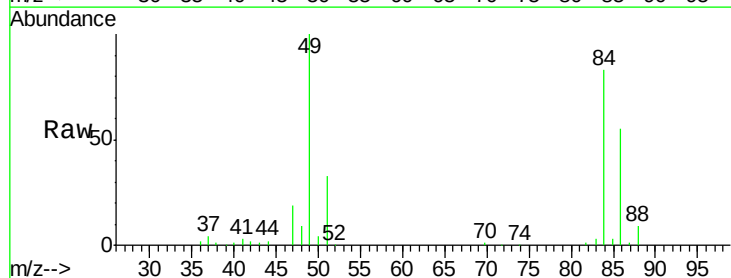
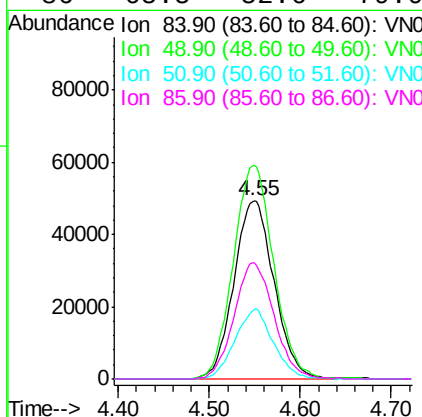
Manual Integrations
APPROVED

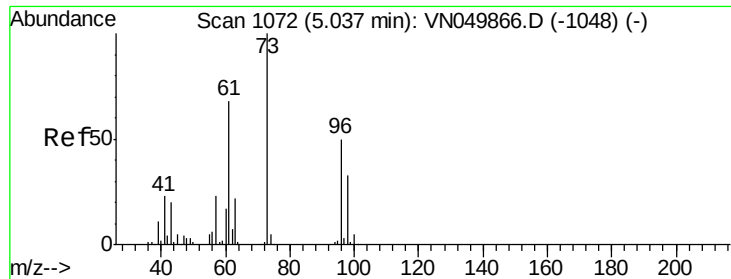
MMDadoda
7/19/2018 4:29:01 PM



#20
Methylene Chloride
Concen: 18.53 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion: 84 Resp: 151579
Ion Ratio Lower Upper
84 100
49 120.0 95.4 143.2
51 39.0 28.4 42.6
86 65.5 52.6 79.0





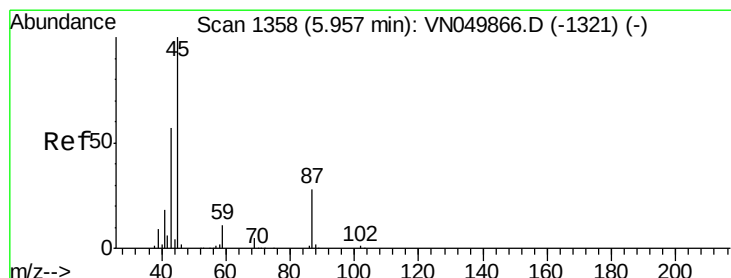
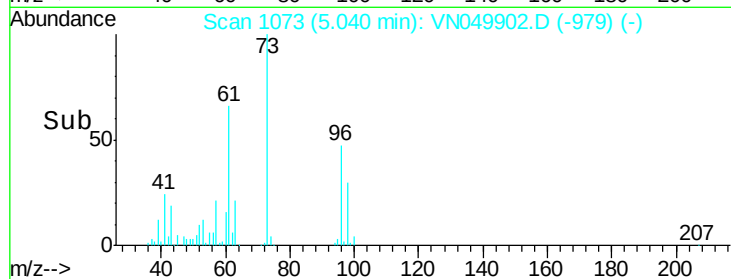
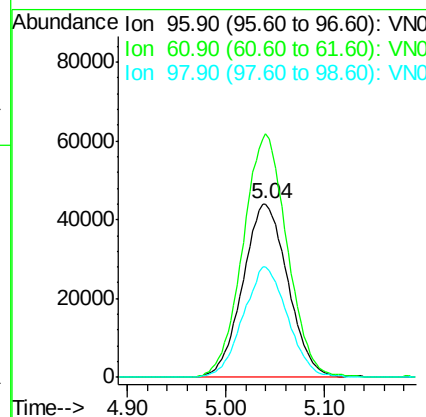
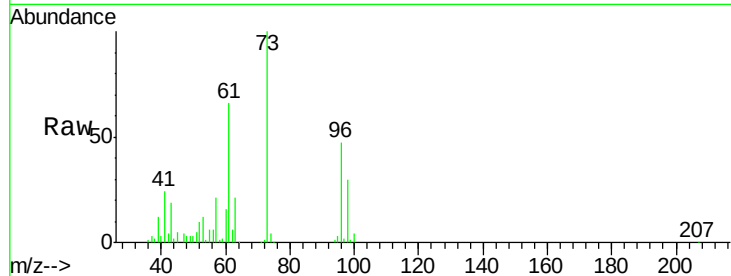
#21
trans-1,2-Dichloroethene
Concen: 19.95 ug/l
RT: 5.04 min Scan# 1073
Delta R.T. 0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.1	109.0	163.6
98	64.1	51.1	76.7

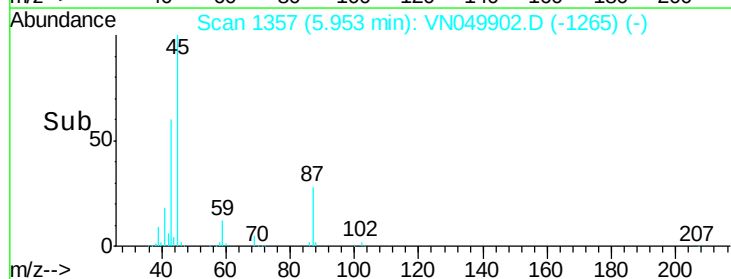
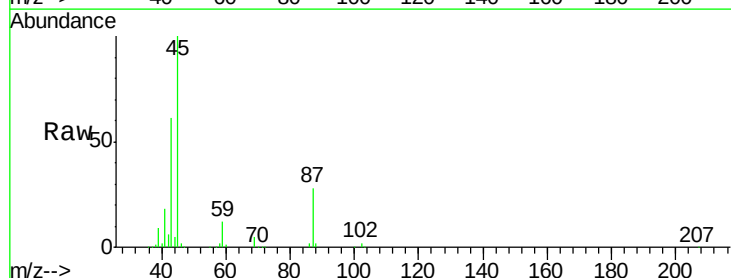
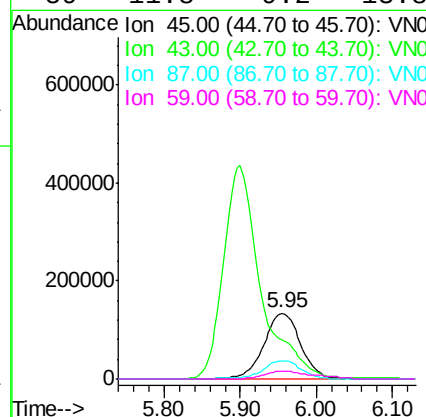
Manual Integrations
APPROVED

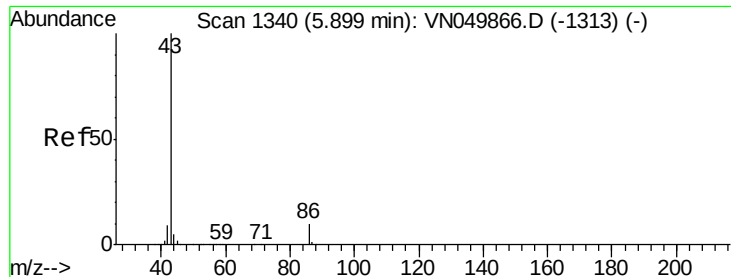
MMDadoda
7/19/2018 4:29:01 PM



#22
Diisopropyl ether
Concen: 21.36 ug/l
RT: 5.95 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.9	48.1	72.1
87	27.8	22.6	34.0
59	11.8	9.2	13.8





#23

Vinyl Acetate

Concen: 100.94 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS04

Tot Ion: 43 Resp: 1493000

Ion Ratio Lower Upper

43 100

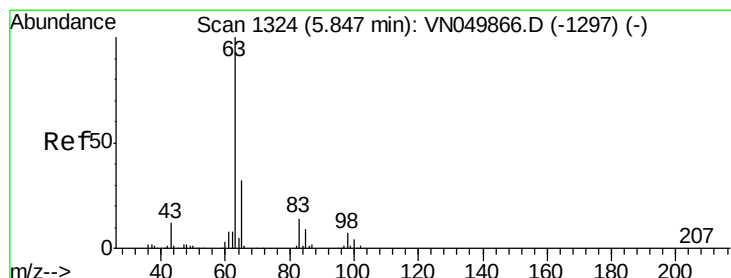
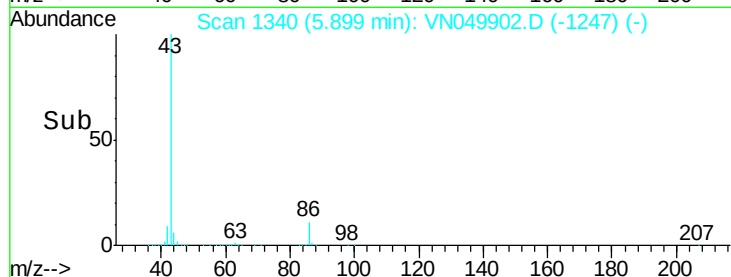
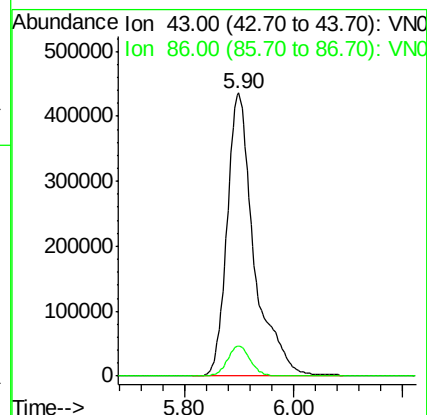
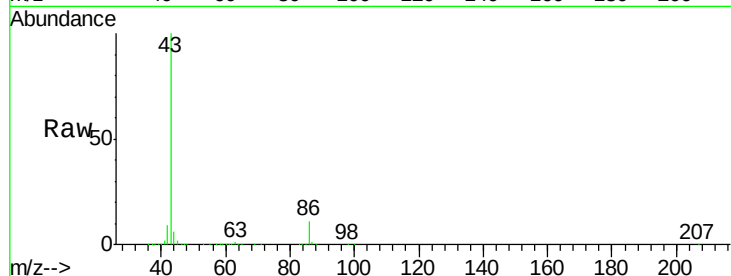
86 10.5 8.4 12.6

Manual Integrations

APPROVED

MMDadoda

7/19/2018 4:29:01 PM



#24

1,1-Dichloroethane

Concen: 19.91 ug/l

RT: 5.85 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

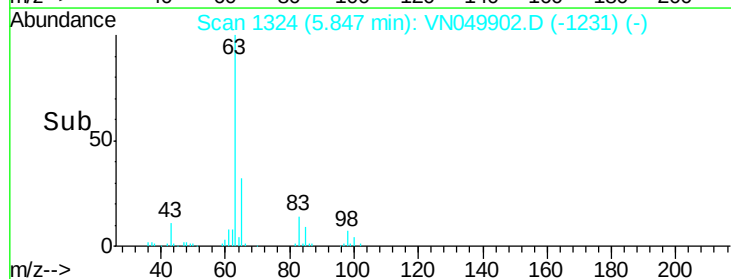
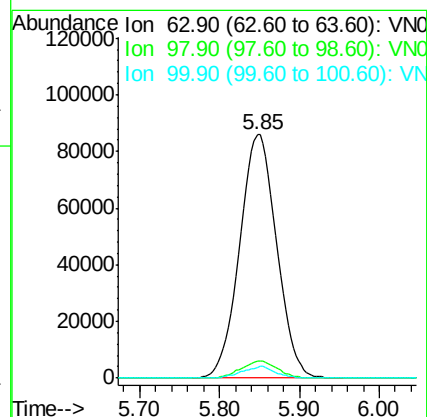
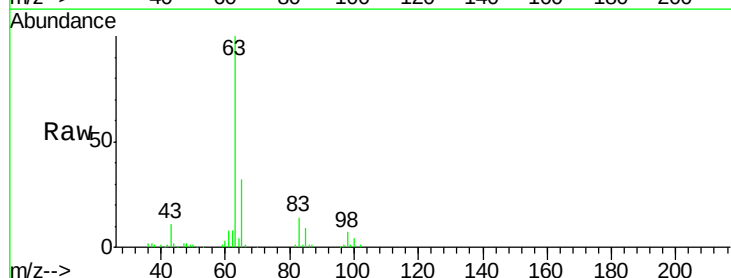
Tgt Ion: 63 Resp: 269368

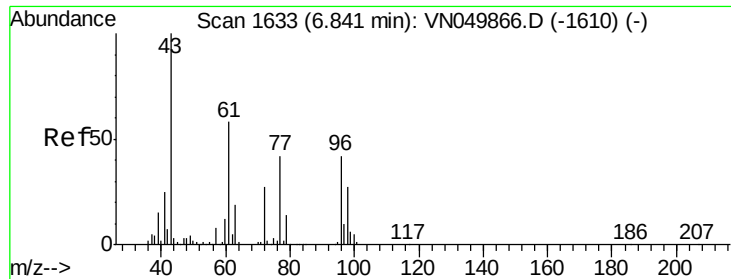
Ion Ratio Lower Upper

63 100

98 6.8 3.4 10.2

100 4.3 2.2 6.6





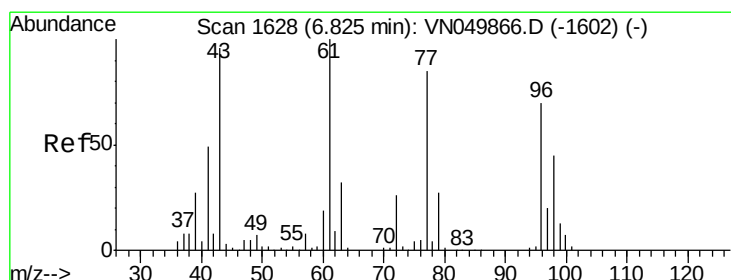
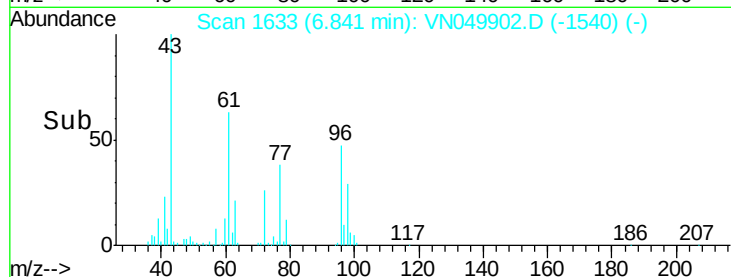
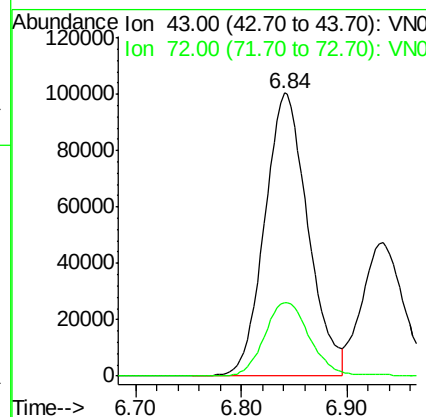
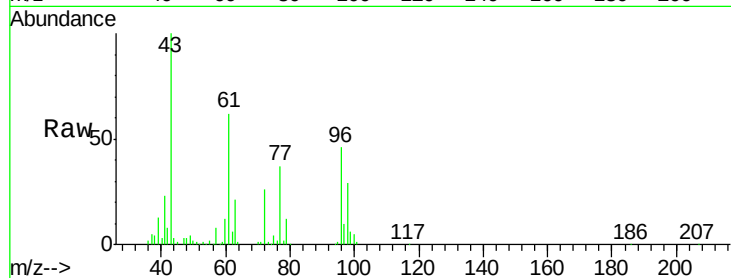
#25
2-Butanone
Concen: 93.15 ug/l
RT: 6.84 min Scan# 1633
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampled :
VN0718WBS04

Tot Ion: 43 Resp: 286336
Ion Ratio Lower Upper
43 100
72 26.1 22.1 33.1

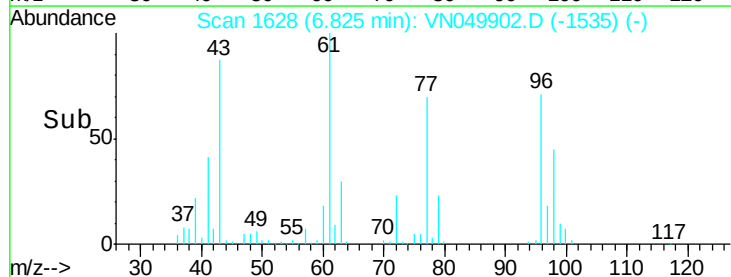
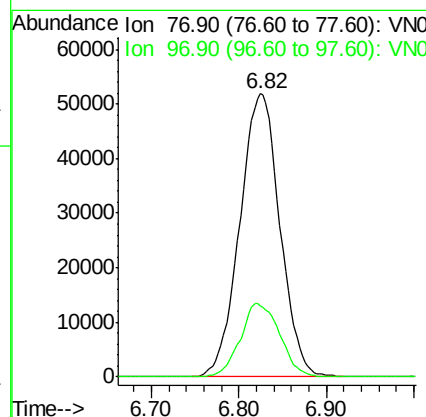
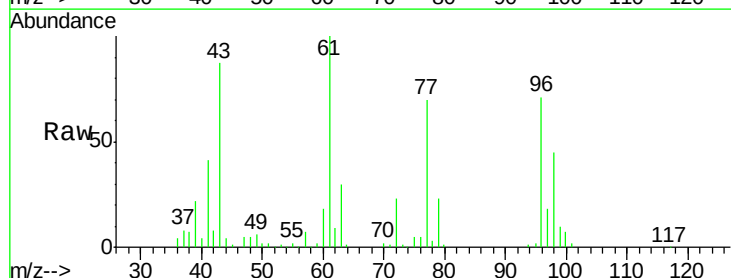
Manual Integrations
APPROVED

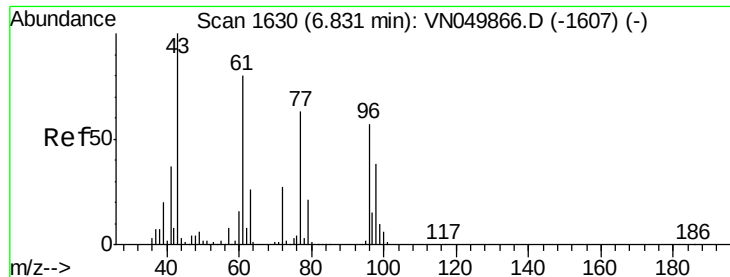
MMDadoda
7/19/2018 4:29:01 PM



#26
2,2-Dichloropropane
Concen: 15.61 ug/l
RT: 6.82 min Scan# 1628
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion: 77 Resp: 164325
Ion Ratio Lower Upper
77 100
97 25.5 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 20.87 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

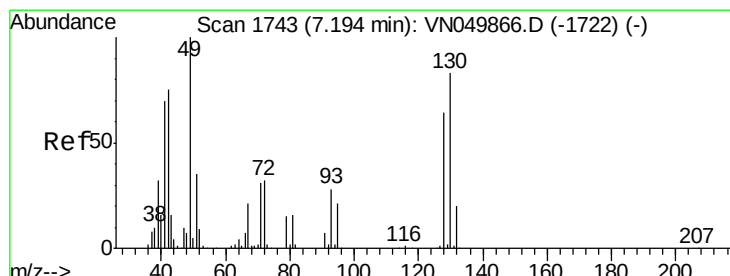
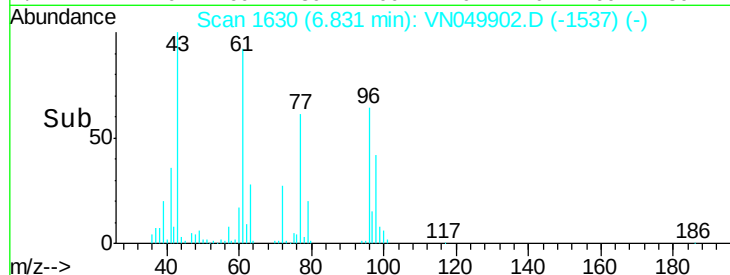
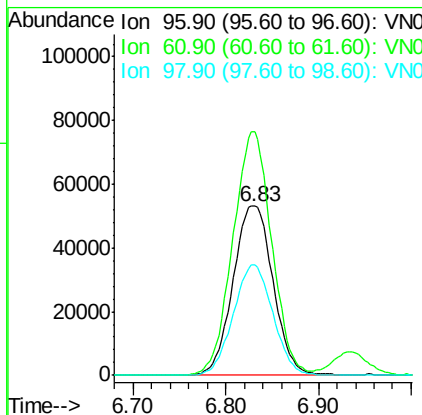
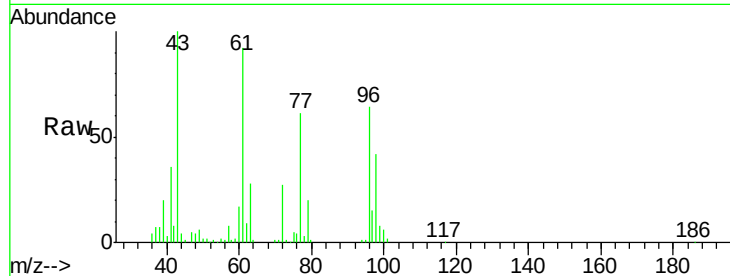
ClientSampled :

VN0718WBS04

Tot Ion:	96	Resp:	159385
Ion	Ratio	Lower	Upper
96	100		
61	139.4	0.0	289.0
98	64.7	0.0	130.2

Manual Integrations
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7/19/2018 4:29:01 PM



#28

Bromochloromethane

Concen: 20.98 ug/l

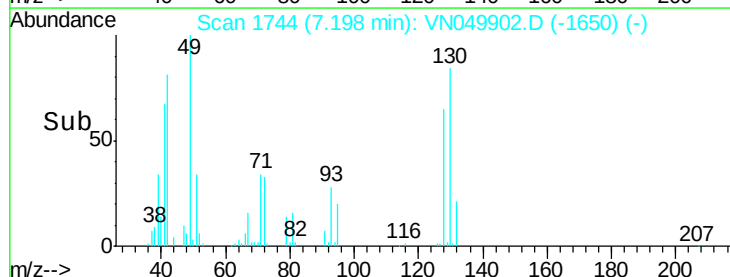
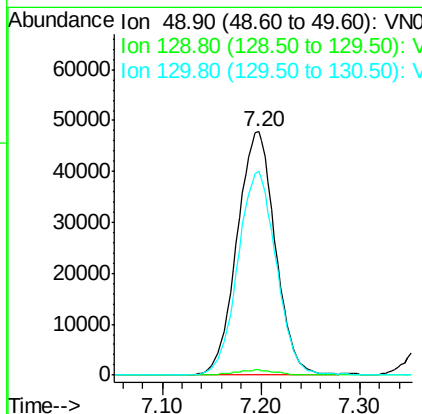
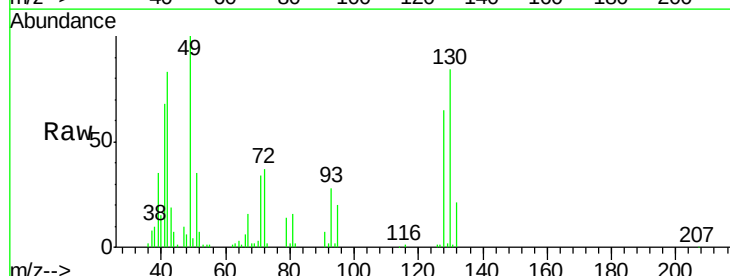
RT: 7.20 min Scan# 1744

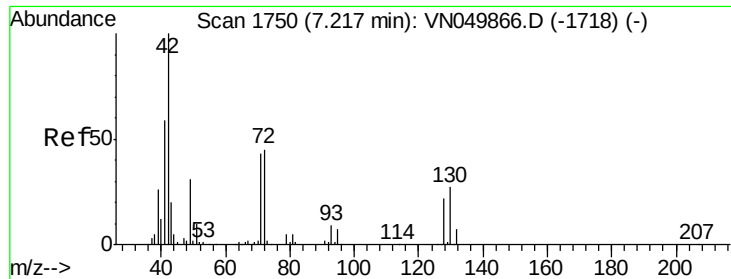
Delta R.T. 0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Tgt Ion:	49	Resp:	128192
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	84.0	65.5	98.3





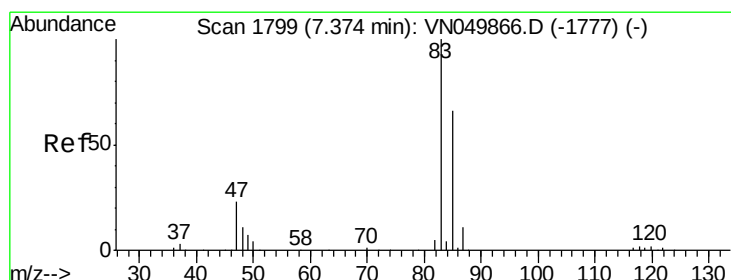
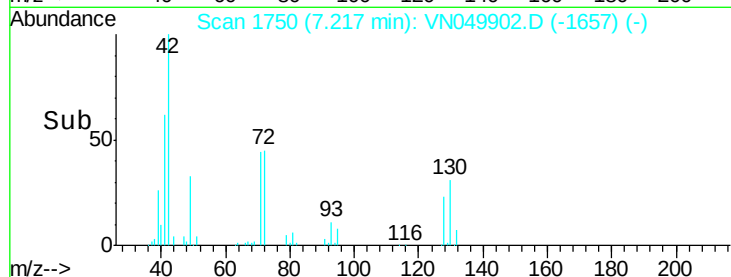
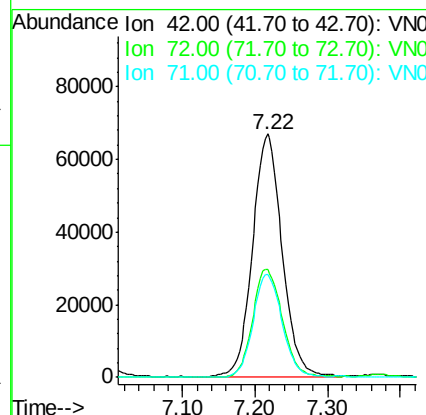
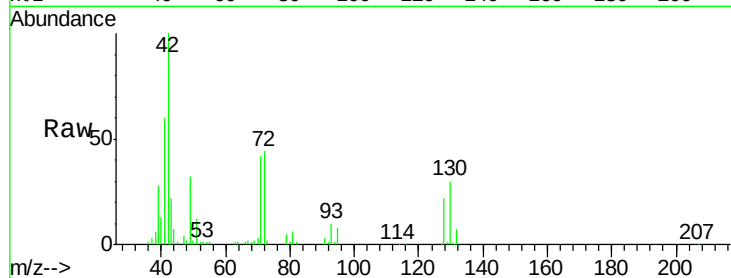
#29
Tetrahydrofuran
Concen: 98.78 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	Ion	Ratio	Lower	Upper
42	100			
72	44.5	35.6	53.4	
71	41.5	34.0	51.0	

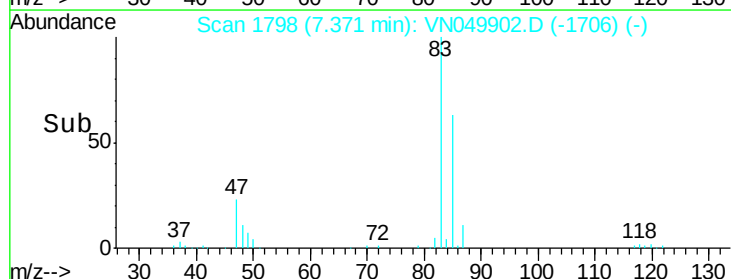
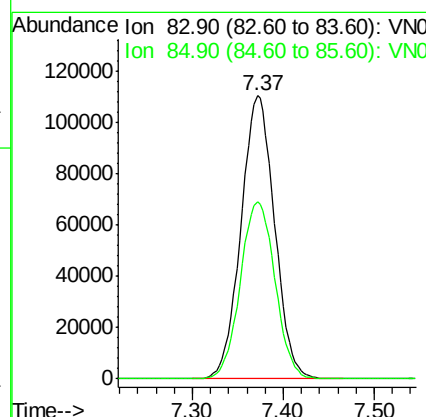
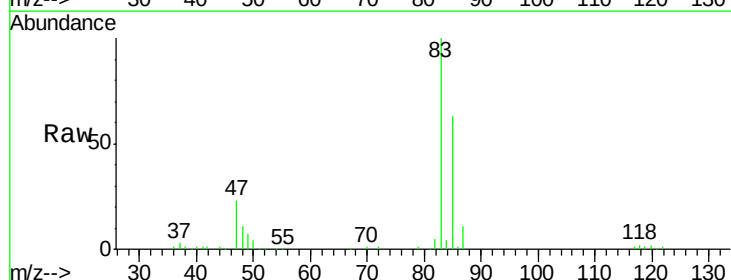
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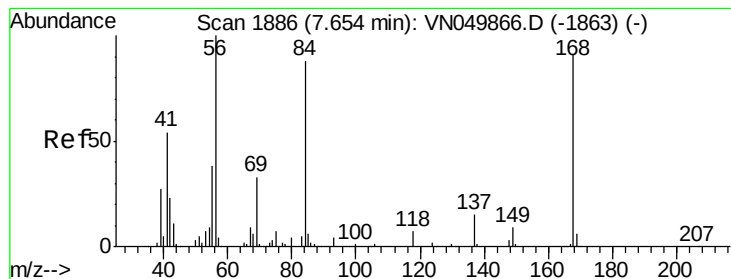
MMDadoda
7/19/2018 4:29:01 PM



#30
Chloroform
Concen: 20.39 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	Ion	Ratio	Lower	Upper
83	100			
85	62.5	51.4	77.2	





#31

Cyclohexane

Concen: 20.14 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS04

Tot Ion: 56 Resp: 221814

Ion Ratio Lower Upper

56 100

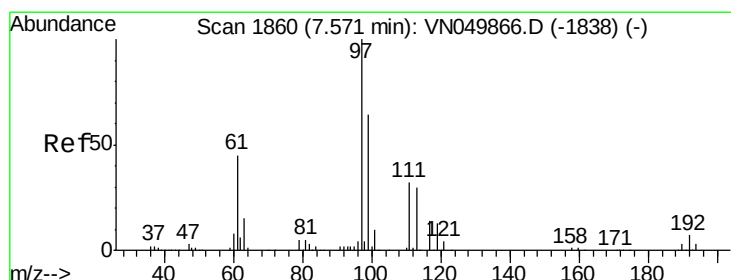
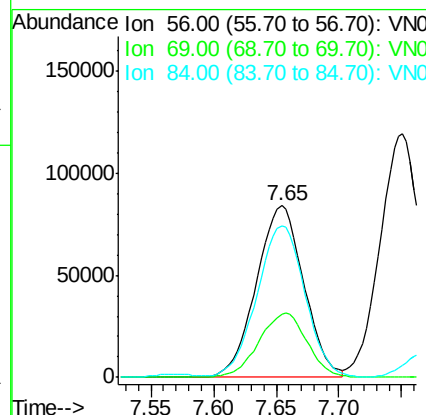
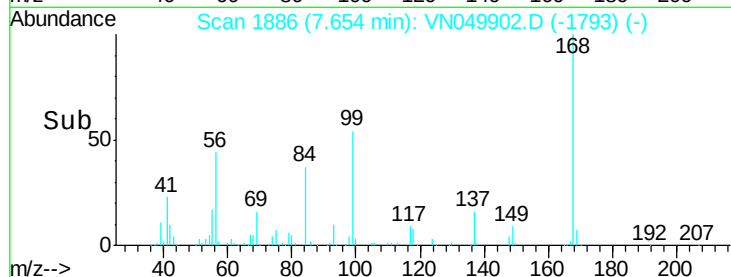
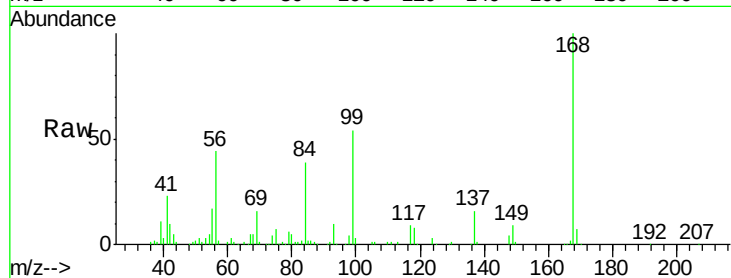
69 36.5 26.6 40.0

84 86.8 69.0 103.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.74 ug/l

RT: 7.57 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

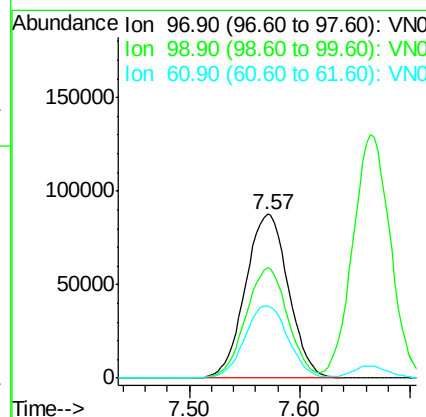
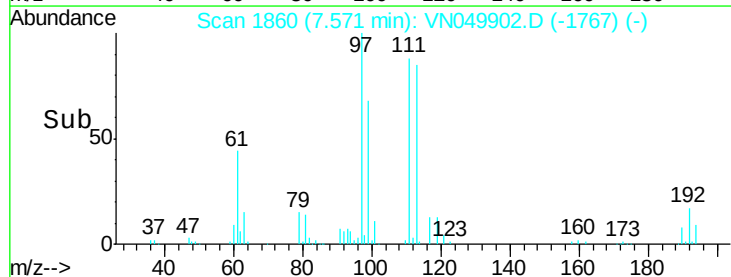
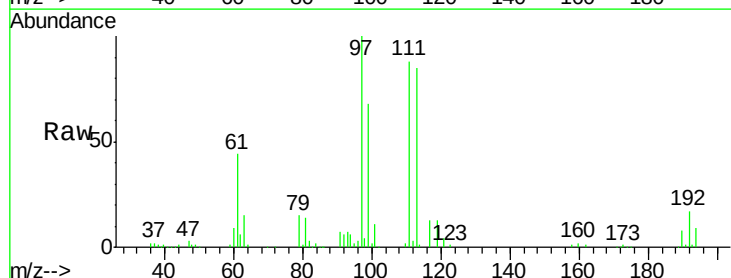
Tgt Ion: 97 Resp: 237039

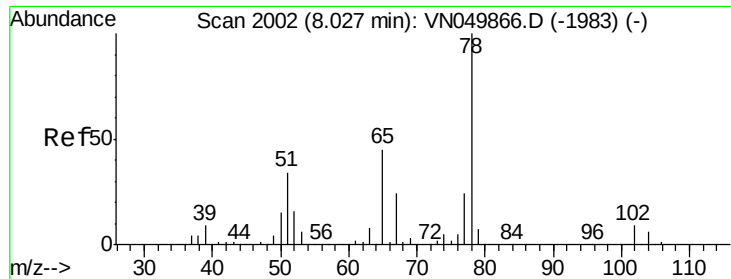
Ion Ratio Lower Upper

97 100

99 65.7 51.0 76.4

61 44.4 35.5 53.3





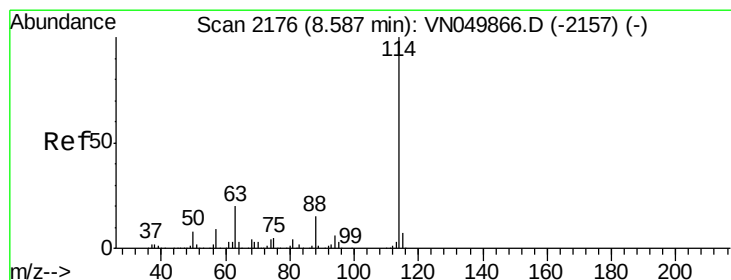
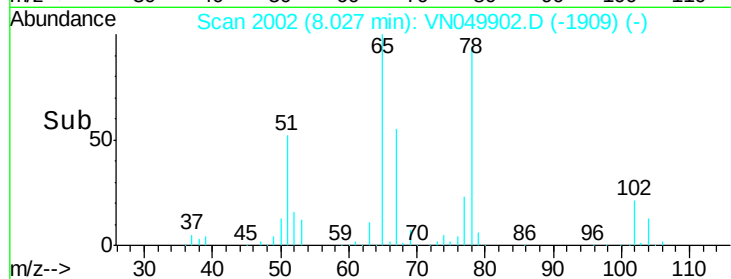
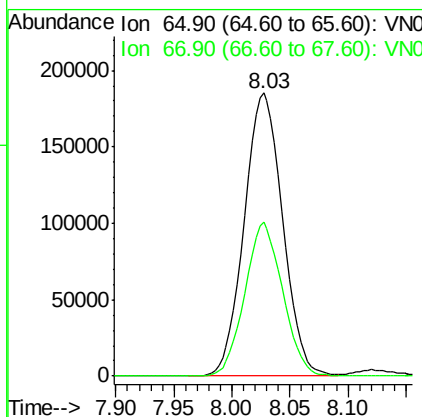
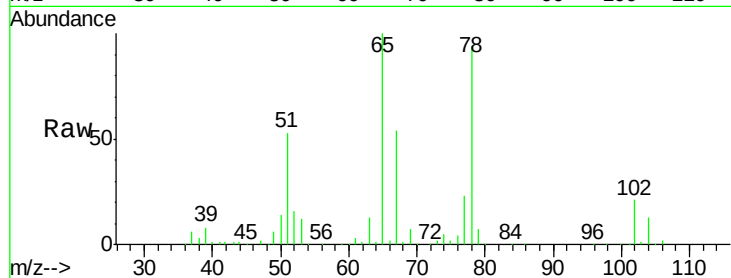
#33
 1,2-Dichloroethane-d4
 Concen: 51.71 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS04

Tot Ion	Ratio	Resp	Lower	Upper
65	100	429593		
67	53.2	0.0	107.2	

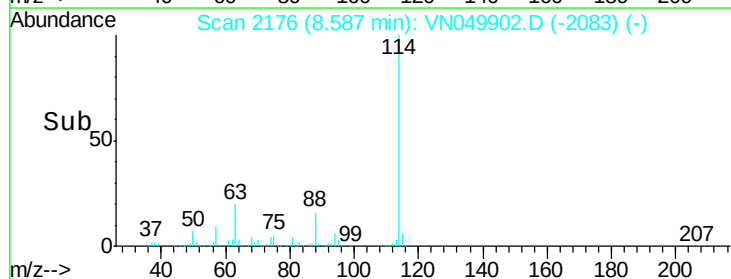
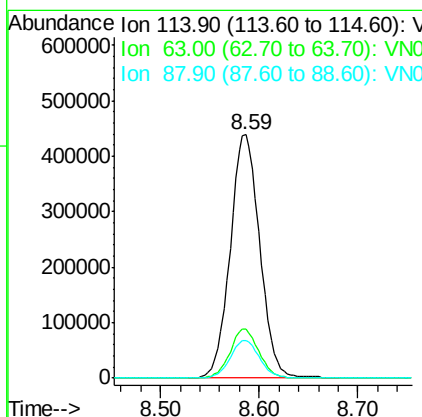
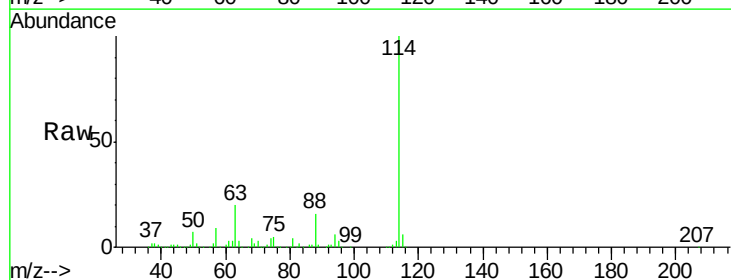
Manual Integrations
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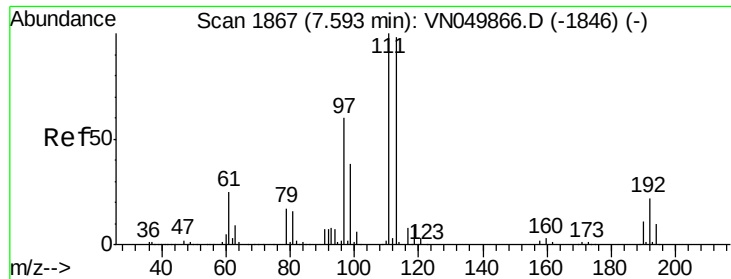
MMDadoda
 7/19/2018 4:29:01 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	915714		
63	20.2	0.0	39.8	
88	15.6	0.0	30.6	





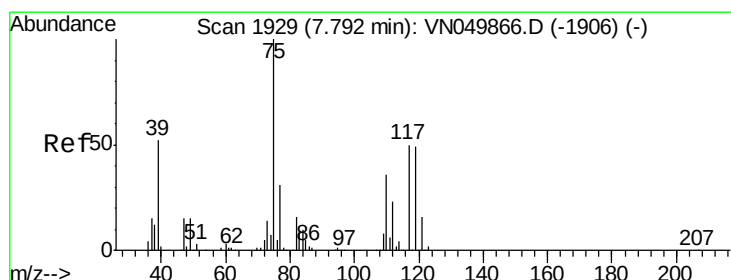
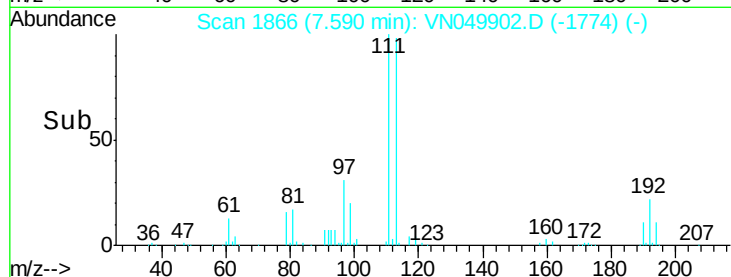
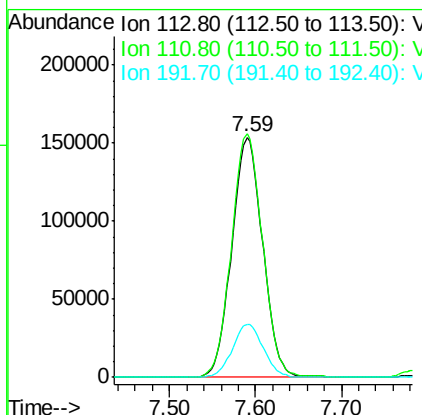
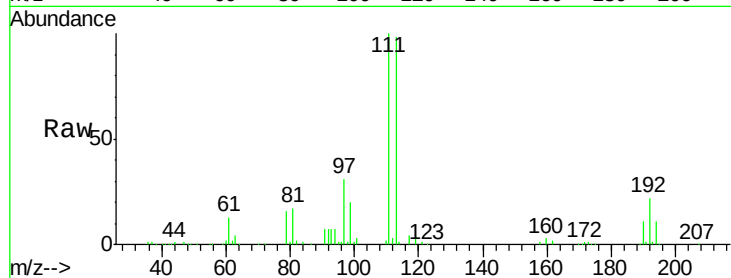
#35
Dibromofluoromethane
Concen: 49.94 ug/l
RT: 7.59 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	Ratio	Resp	Lower	Upper
113	100	383936		
111	102.0	81.8	122.8	
192	22.2	17.8	26.6	

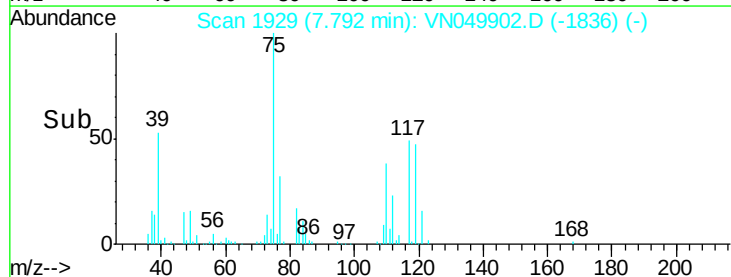
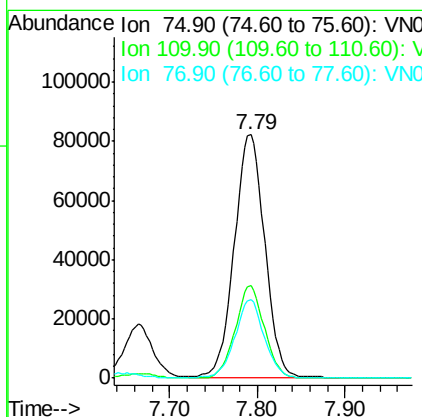
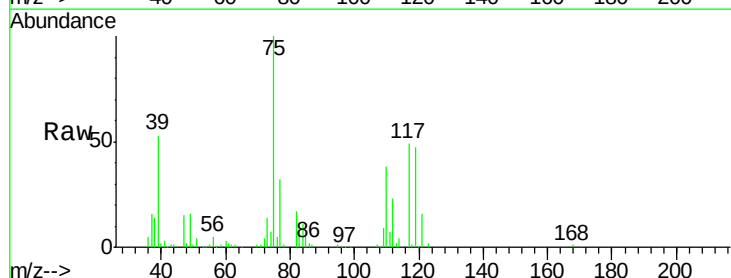
Manual Integrations
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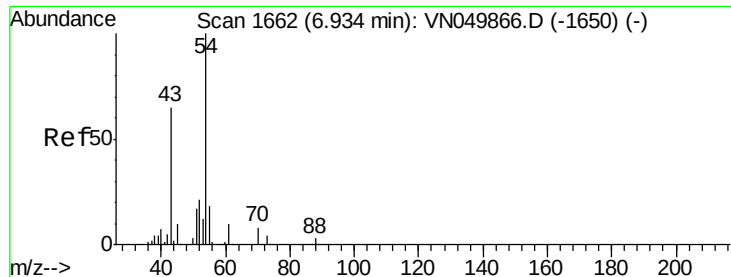
MMDadoda
7/19/2018 4:29:01 PM



#36
1,1-Dichloropropene
Concen: 19.54 ug/l
RT: 7.79 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	198988		
110	36.1	18.1	54.4	
77	31.2	24.9	37.3	





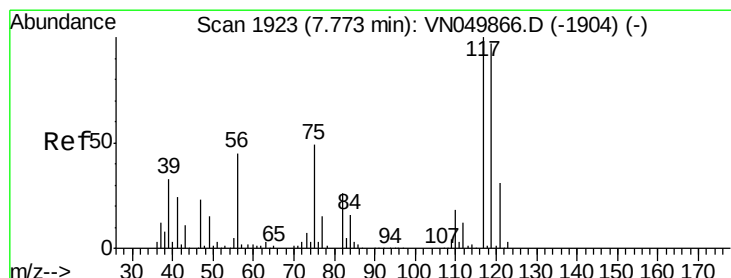
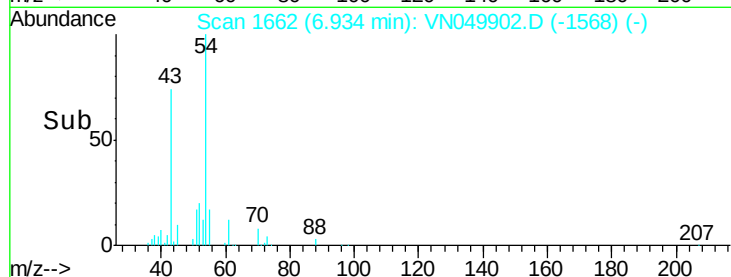
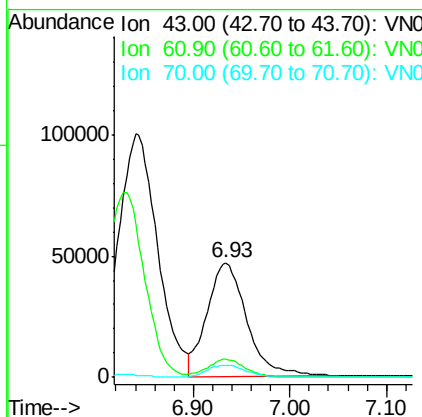
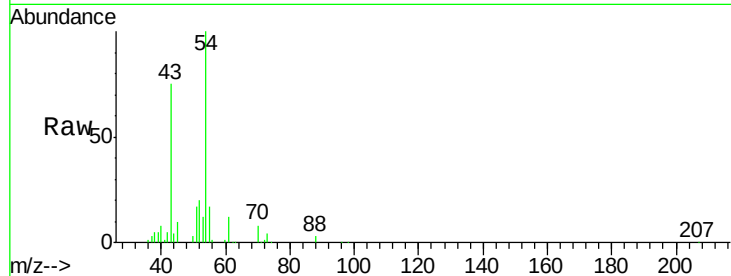
#37
Ethyl Acetate
Concen: 19.02 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.7	17.5
70	10.7	8.4	12.6

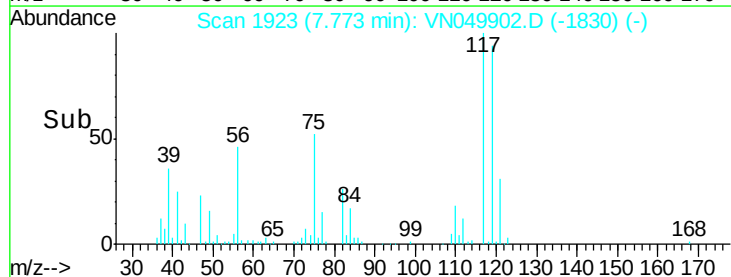
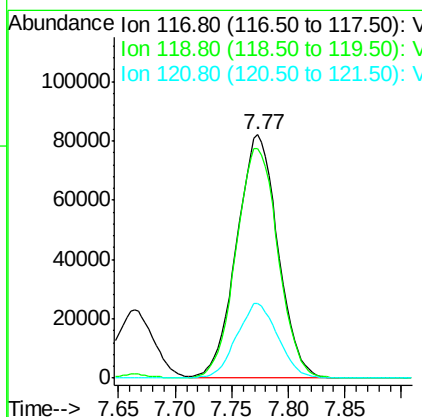
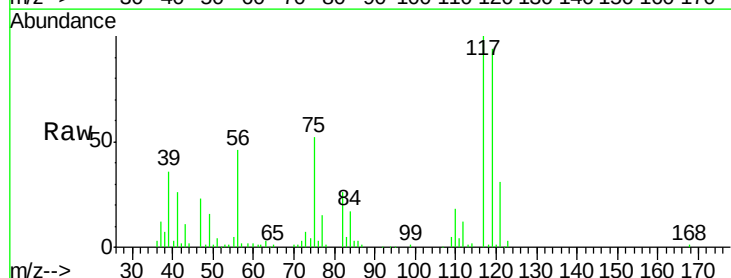
Manual Integrations
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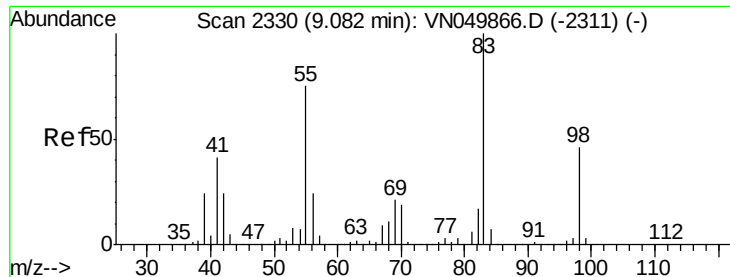
MMDadoda
7/19/2018 4:29:01 PM



#38
Carbon Tetrachloride
Concen: 19.03 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.4	77.2	115.8
121	30.8	25.0	37.6





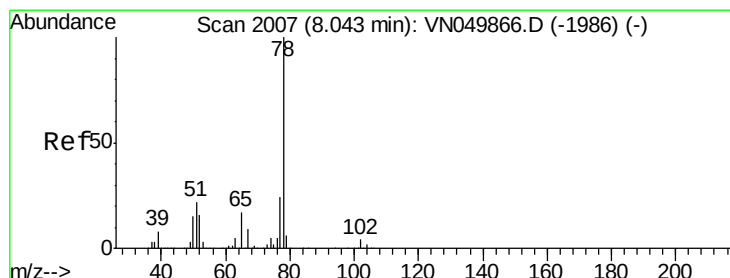
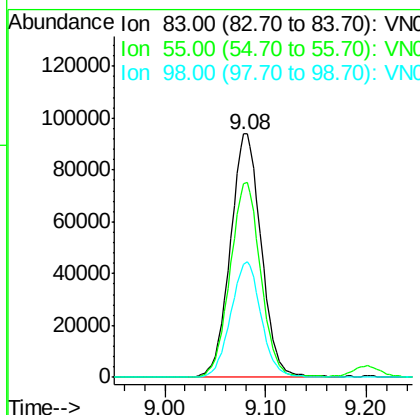
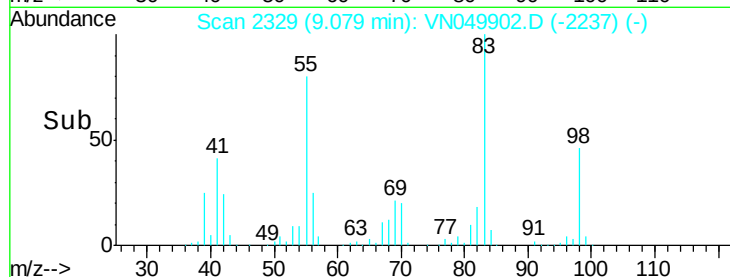
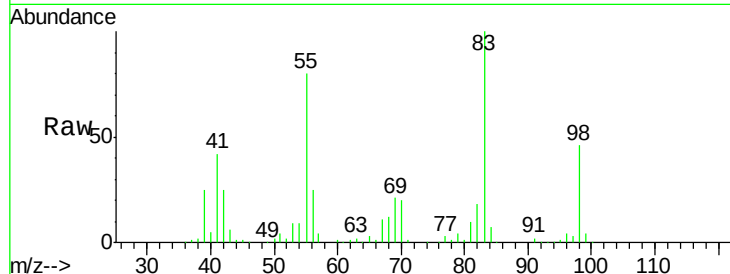
#39
Methylvlcyclohexane
Concen: 19.04 ug/l
RT: 9.08 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	83	Resp	200238
Ion Ratio	Lower	Upper	
83	100		
55	79.8	59.7	89.5
98	46.5	36.5	54.7

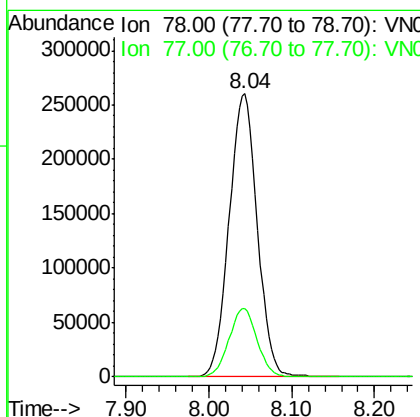
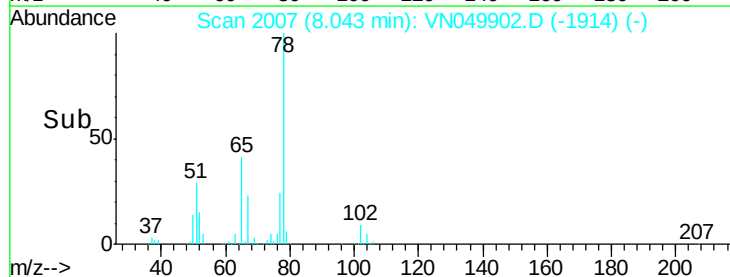
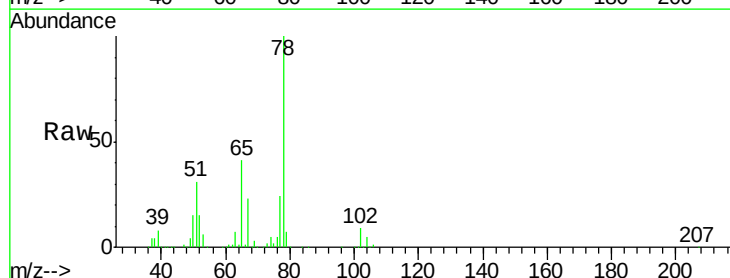
Manual Integrations
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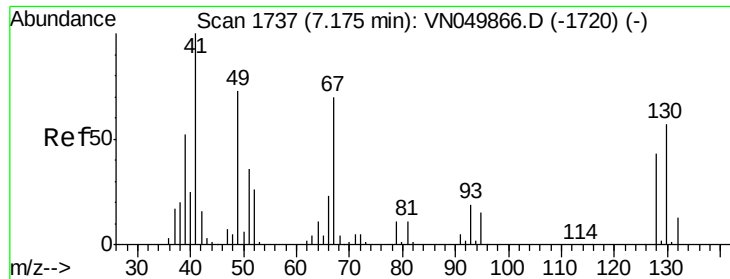
MMDadoda
7/19/2018 4:29:01 PM



#40
Benzene
Concen: 19.80 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	78	Resp	614431
Ion Ratio	Lower	Upper	
78	100		
77	24.2	19.0	28.4





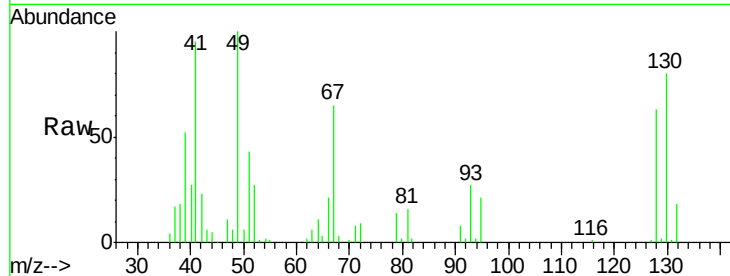
#41
Methacrylonitrile
Concen: 18.29 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	41.00	Resp	64111
Ion	Ratio	Lower	Upper
41	100		
39	61.1	45.4	68.2
67	90.5	65.4	98.0
52	36.6	24.7	37.1

Manual Integrations
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MMDadoda
7/19/2018 4:29:01 PM



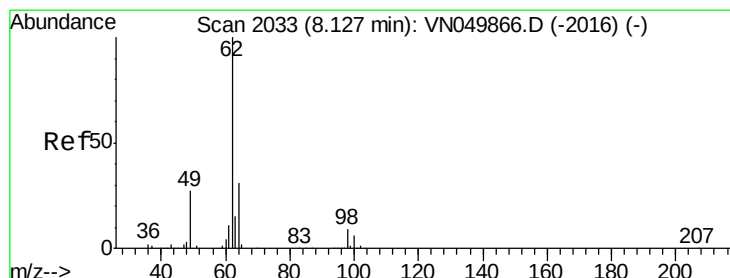
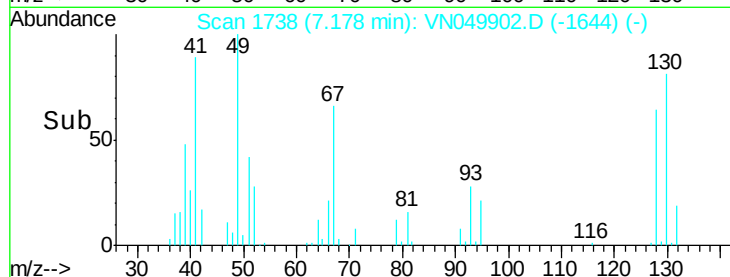
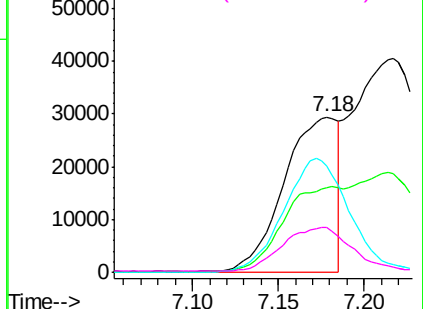
Abundance

Ion 41.00 (40.70 to 41.70): VN049902.D (-1644) (-)

Ion 39.00 (38.70 to 39.70): VN049902.D (-1644) (-)

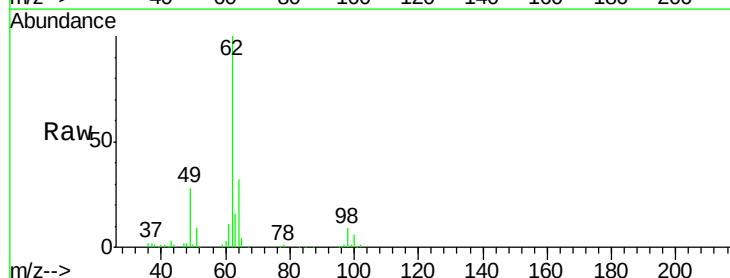
Ion 67.00 (66.70 to 67.70): VN049902.D (-1644) (-)

Ion 52.00 (51.70 to 52.70): VN049902.D (-1644) (-)



#42
1,2-Dichloroethane
Concen: 19.34 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

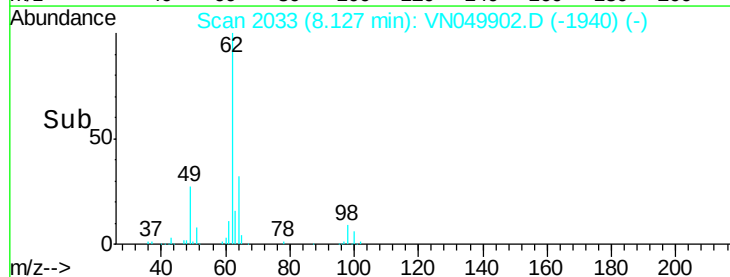
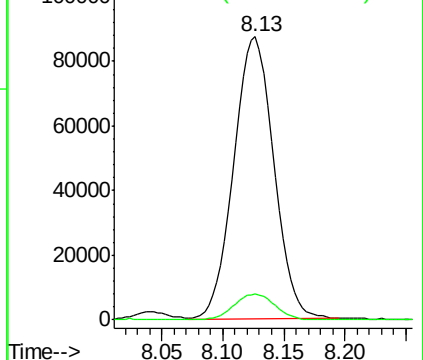
Tgt Ion	62	Resp	198818
Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	19.0

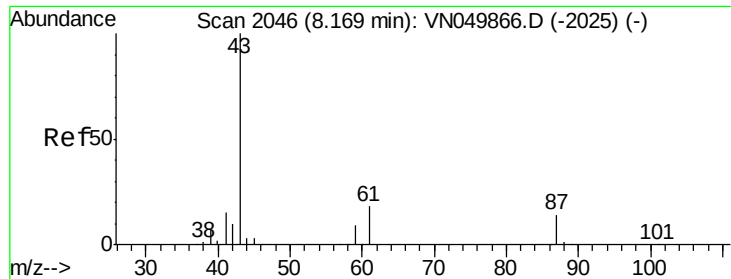


Abundance

Ion 61.90 (61.60 to 62.60): VN049902.D (-1940) (-)

Ion 97.90 (97.60 to 98.60): VN049902.D (-1940) (-)





#43

Isopropyl Acetate

Concen: 21.06 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

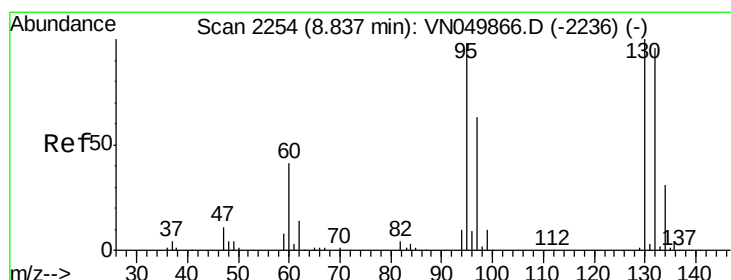
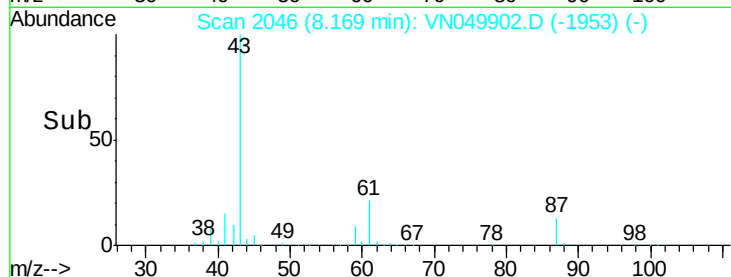
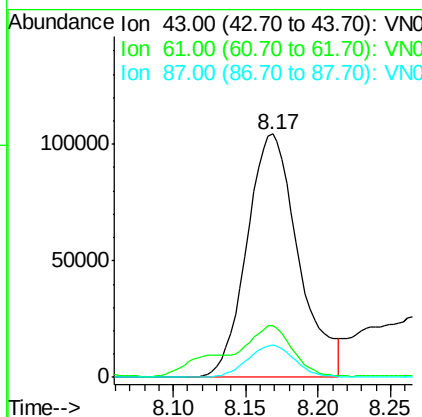
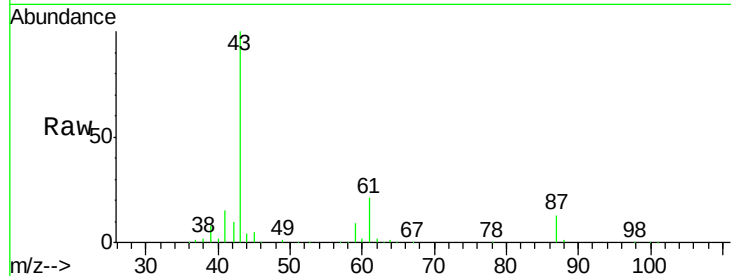
ClientSampleId :

VN0718WBS04

Tot Ion:	43	Resp:	257245
Ion	Ratio	Lower	Upper
43	100		
61	18.5	14.9	22.3
87	12.2	10.0	15.0

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#44

Trichloroethene

Concen: 19.88 ug/l

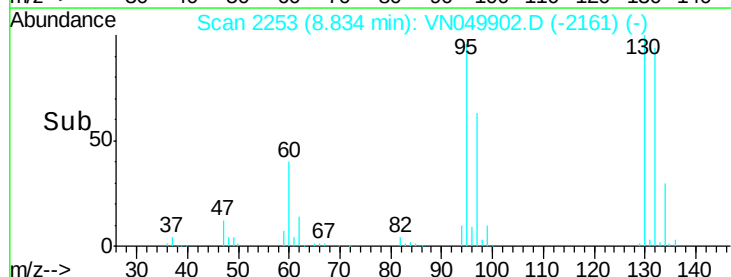
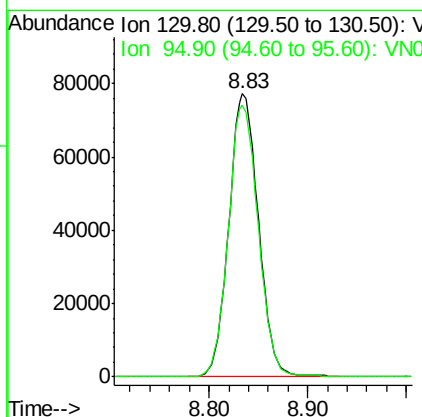
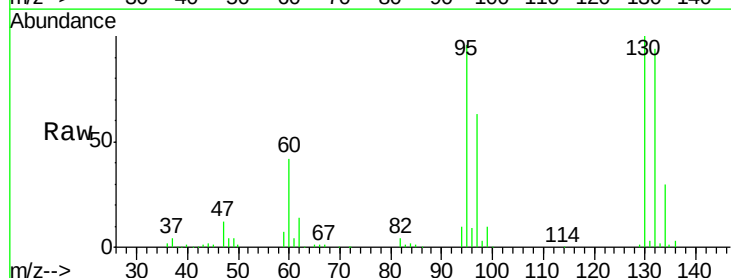
RT: 8.83 min Scan# 2253

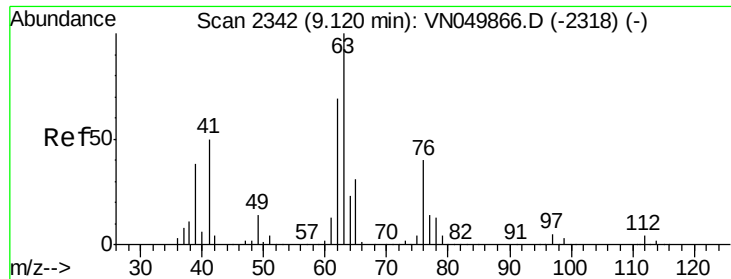
Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Tgt Ion:	130	Resp:	161745
Ion	Ratio	Lower	Upper
130	100		
95	96.1	0.0	192.8





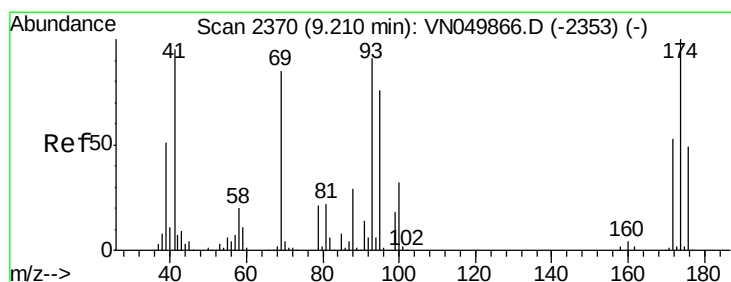
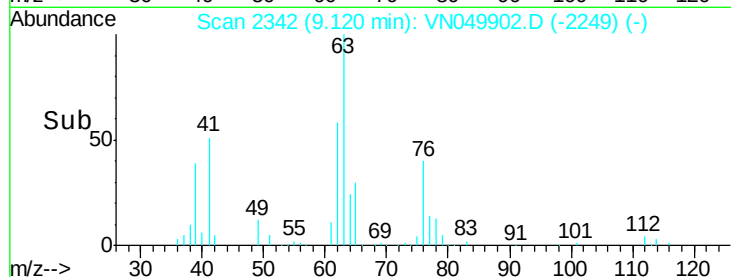
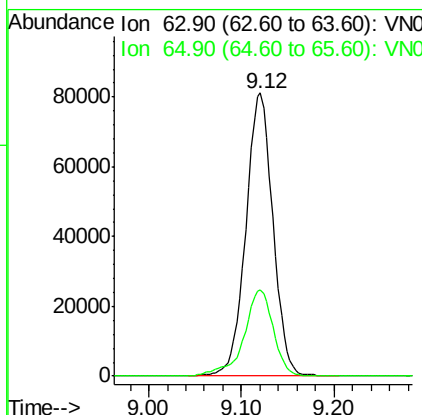
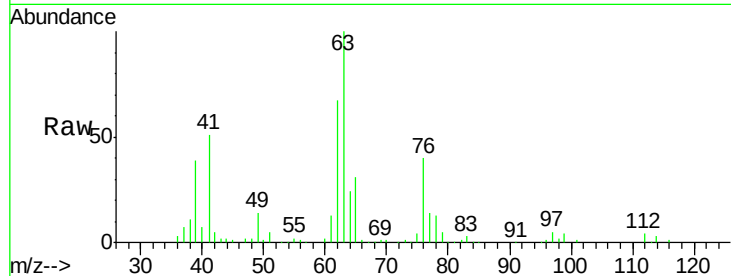
#45
 1,2-Dichloropropane
 Concen: 19.68 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS04

Tot Ion: 63 Resp: 164761
 Ion Ratio Lower Upper
 63 100
 65 30.5 24.7 37.1

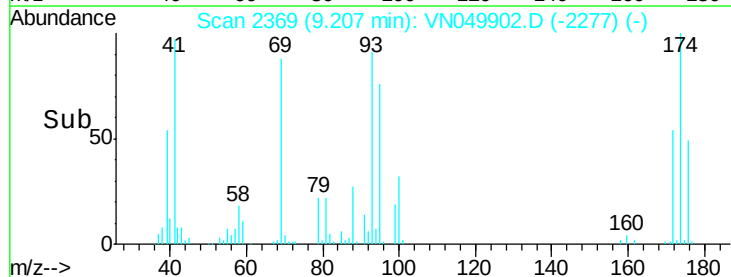
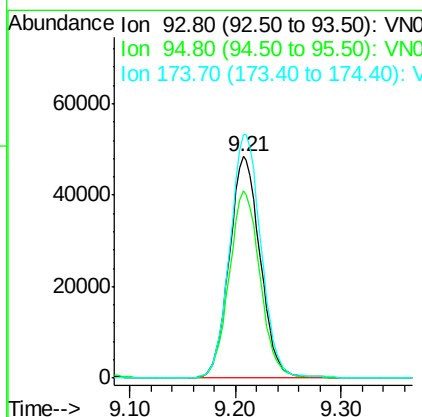
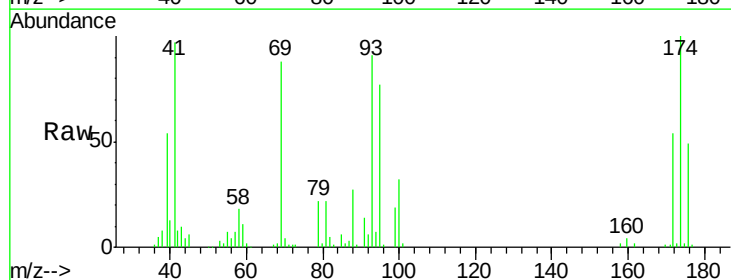
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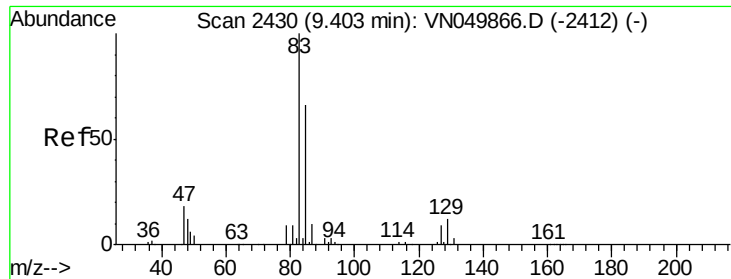
MMDadoda
 7/19/2018 4:29:01 PM



#46
 Dibromomethane
 Concen: 18.98 ug/l
 RT: 9.21 min Scan# 2369
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Tgt Ion: 93 Resp: 98549
 Ion Ratio Lower Upper
 93 100
 95 84.0 67.9 101.9
 174 110.6 89.4 134.0





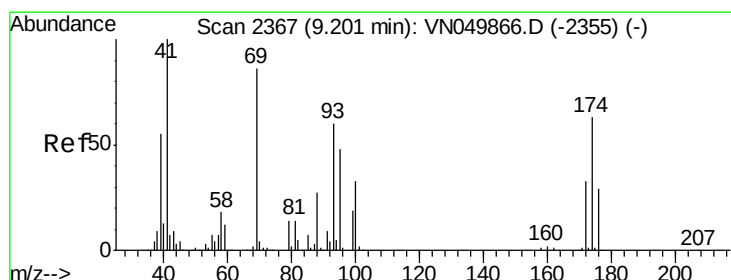
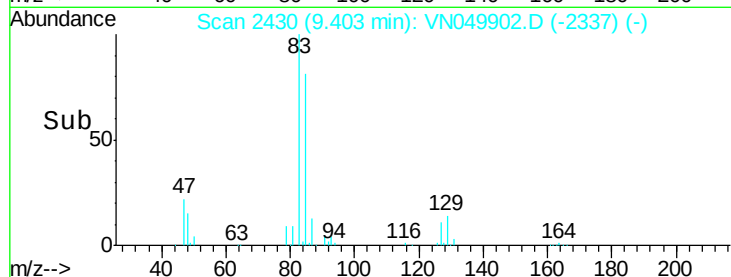
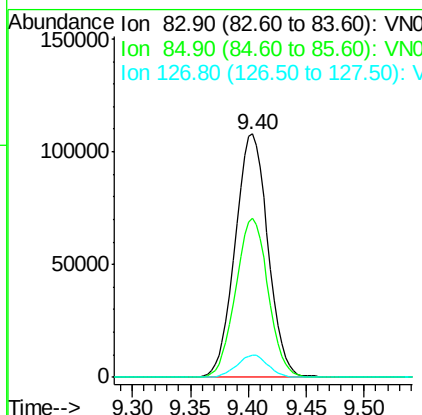
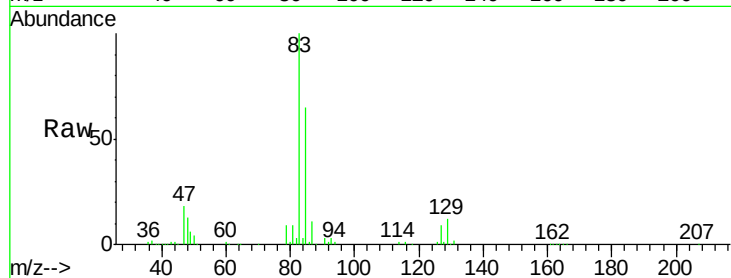
#47
Bromodichloromethane
Concen: 19.73 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	83	Resp	211803
Ion Ratio	100	Lower	Upper
83	100		
85	65.3	50.5	75.7
127	9.1	6.8	10.2

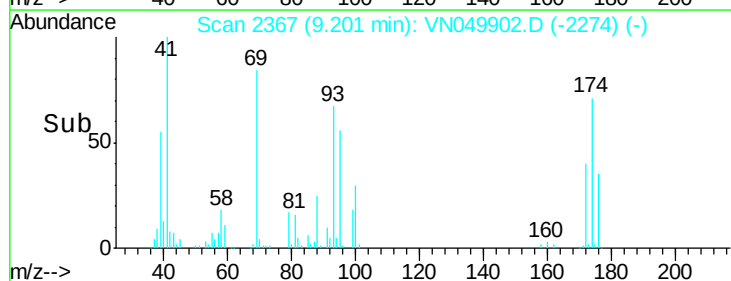
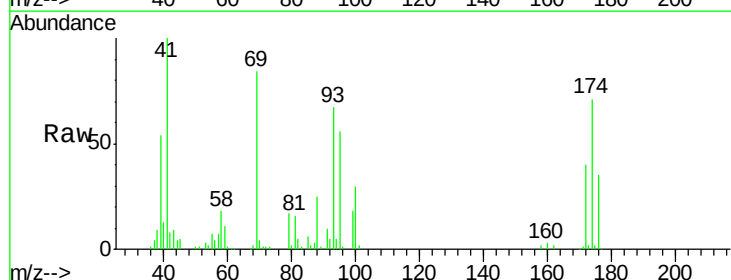
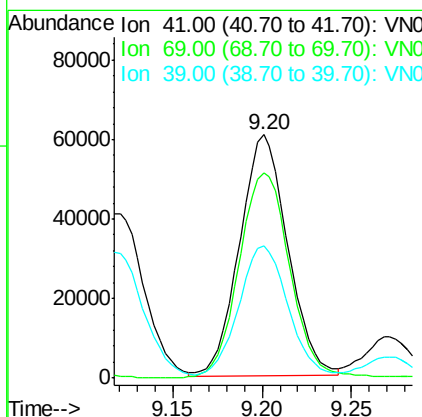
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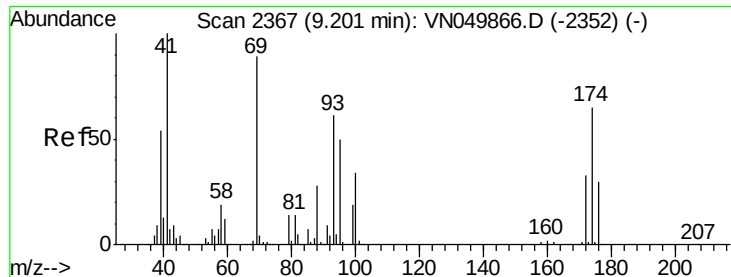
MMDadoda
7/19/2018 4:29:01 PM



#48
Methyl methacrylate
Concen: 18.71 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	41	Resp	114630
Ion Ratio	100	Lower	Upper
41	100		
69	90.2	71.5	107.3
39	56.1	44.7	67.1





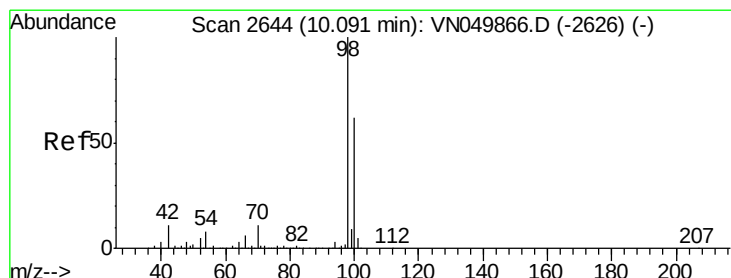
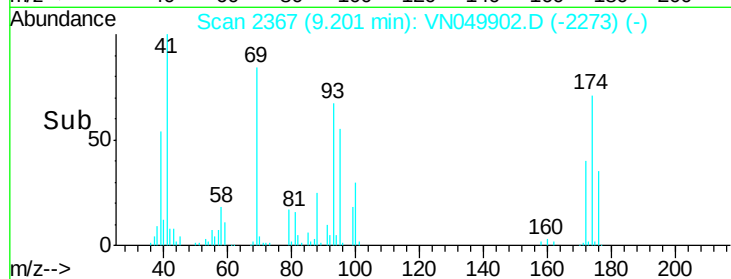
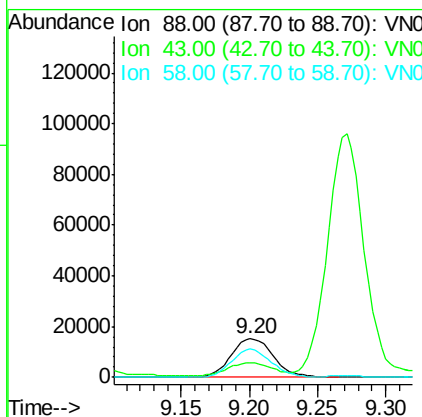
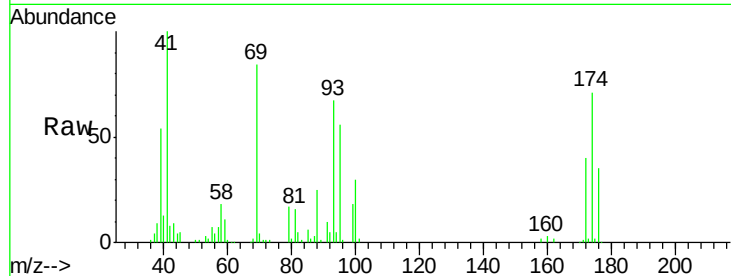
#49
1,4-Dioxane
Concen: 380.81 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.3	25.1	37.7
58	67.9	52.5	78.7

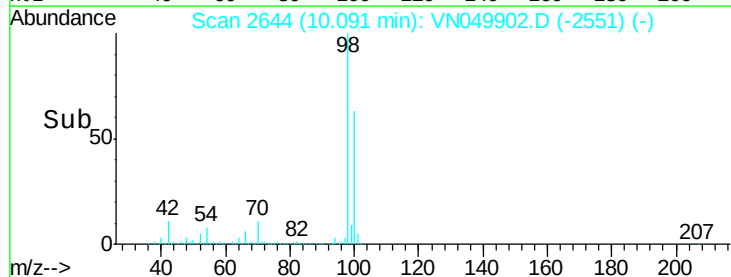
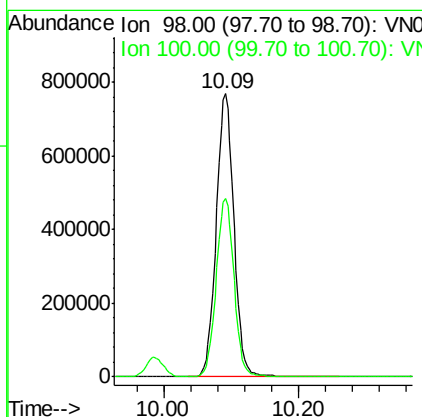
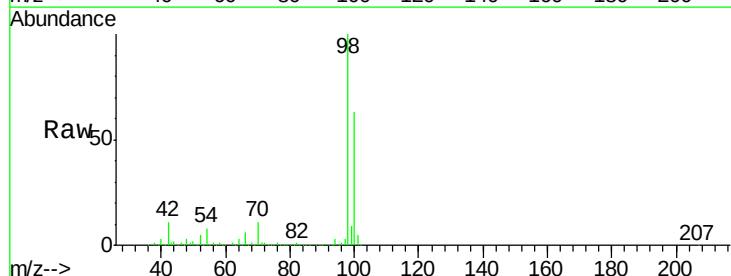
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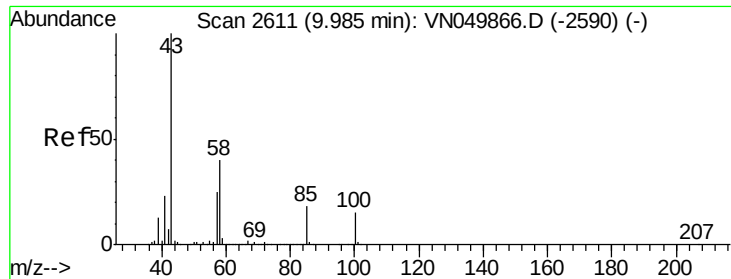
MMDadoda
7/19/2018 4:29:01 PM



#50
Toluene-d8
Concen: 50.45 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.7	77.5





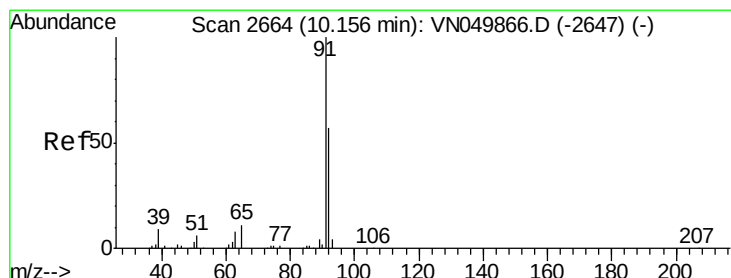
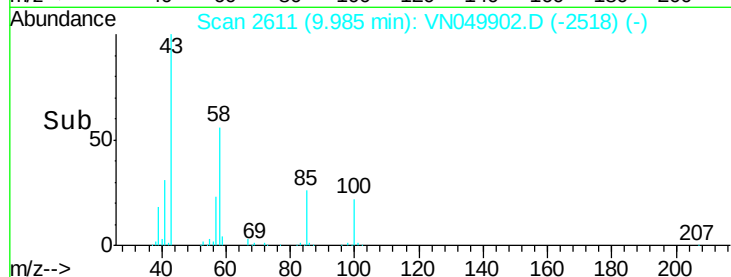
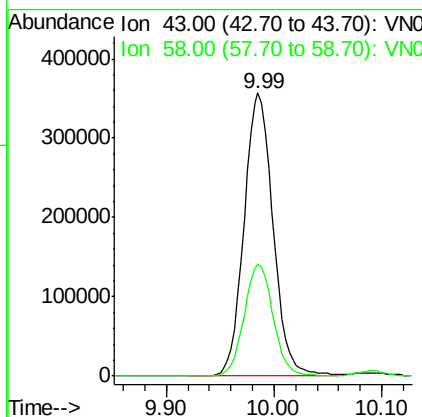
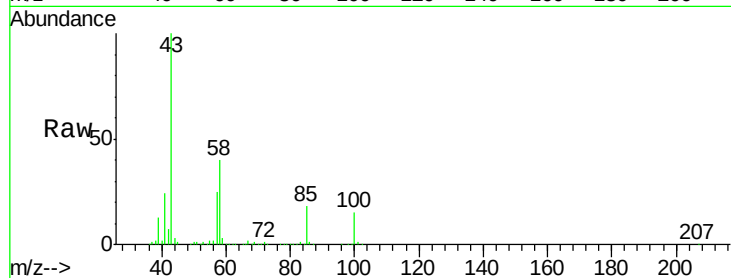
#51
 4-Methyl-2-Pentanone
 Concen: 97.22 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS04

Tot Ion: 43 Resp: 663849
 Ion Ratio Lower Upper
 43 100
 58 39.7 31.8 47.8

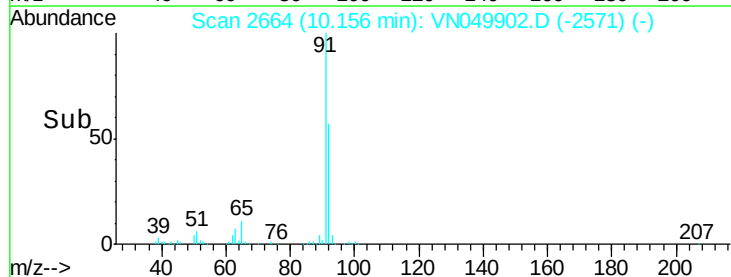
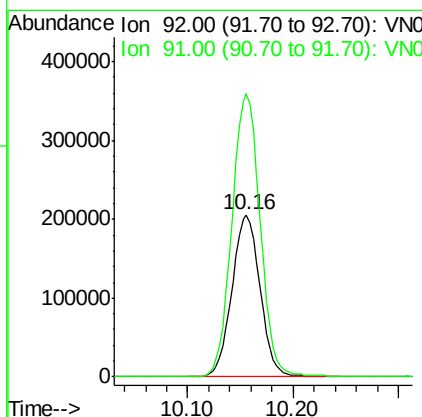
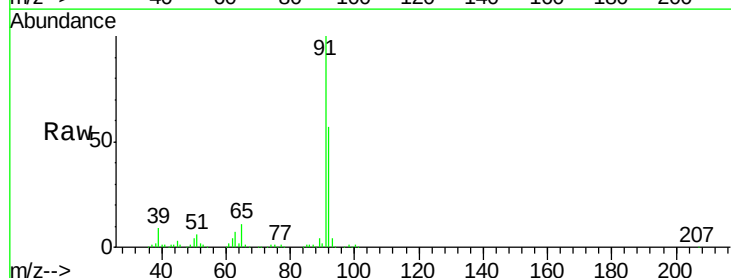
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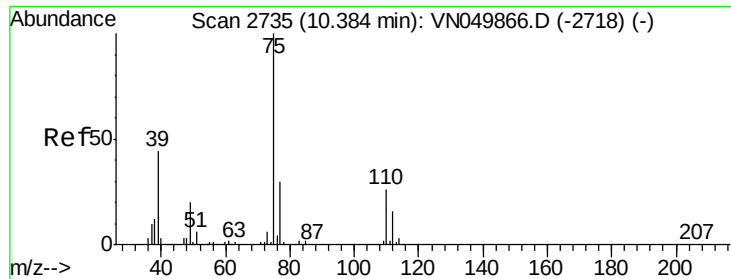
MMDadoda
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#52
 Toluene
 Concen: 20.49 ug/l
 RT: 10.16 min Scan# 2664
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Tgt Ion: 92 Resp: 379300
 Ion Ratio Lower Upper
 92 100
 91 175.8 140.1 210.1





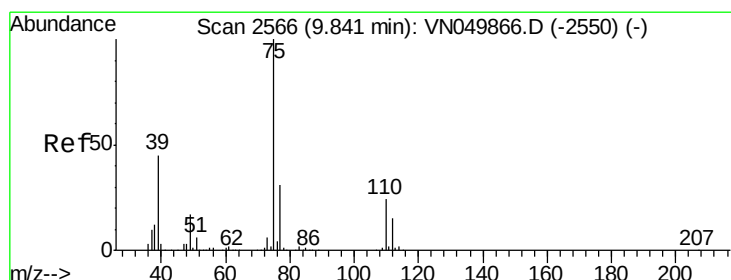
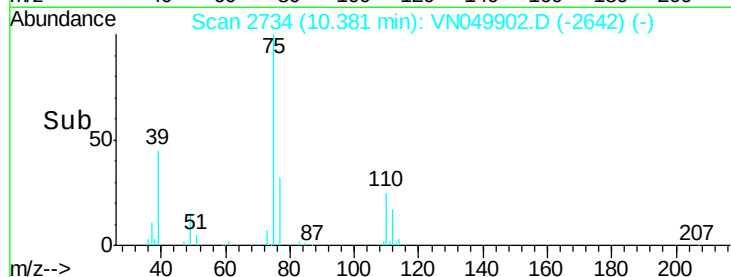
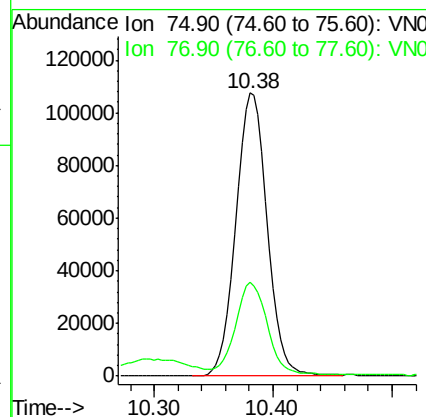
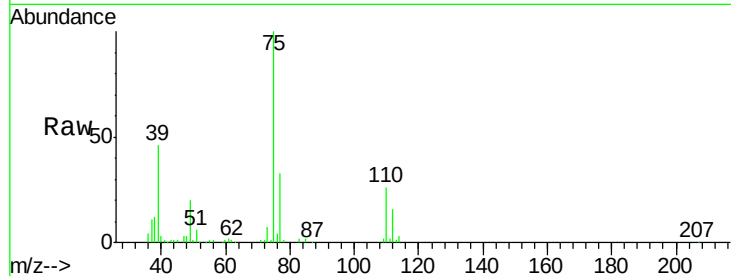
#53
t-1,3-Dichloropropene
Concen: 18.50 ug/l
RT: 10.38 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampled :
VN0718WBS04

Tot Ion: 75 Resp: 196455
Ion Ratio Lower Upper
75 100
77 32.3 25.2 37.8

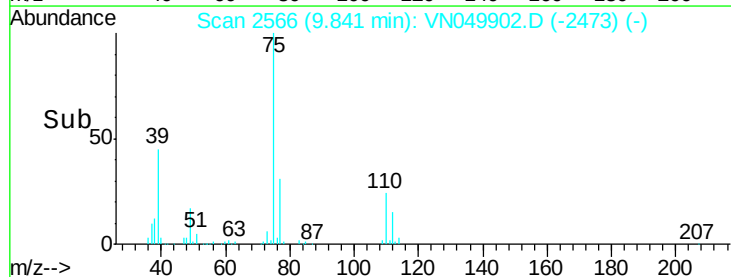
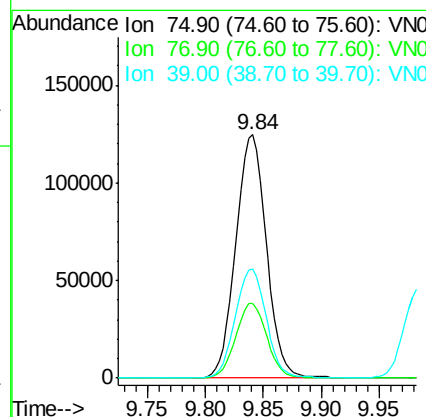
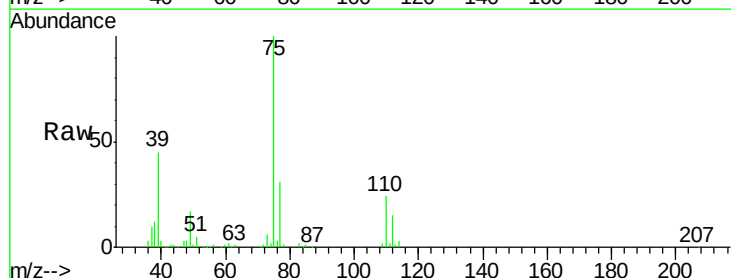
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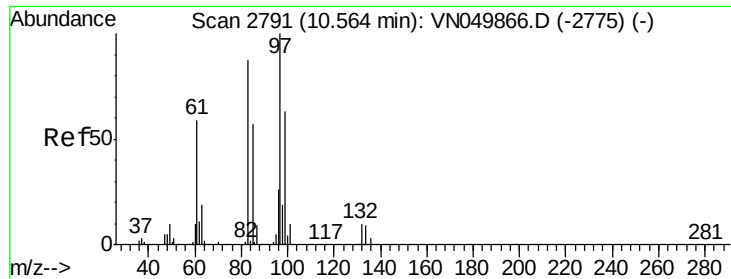
MMDadoda
7/19/2018 4:29:01 PM



#54
cis-1,3-Dichloropropene
Concen: 19.40 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion: 75 Resp: 227637
Ion Ratio Lower Upper
75 100
77 30.6 25.3 37.9
39 44.7 35.5 53.3





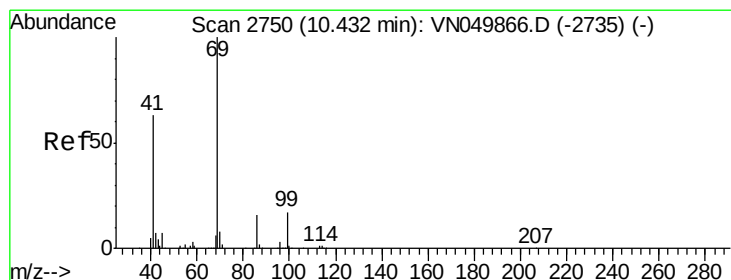
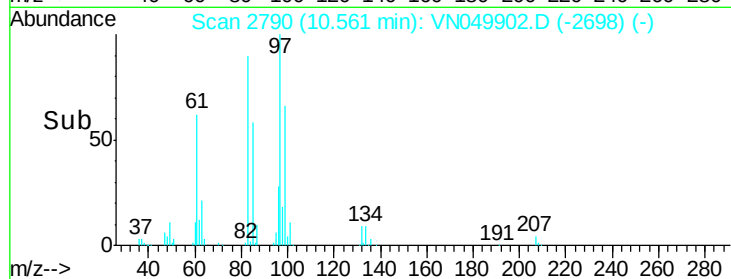
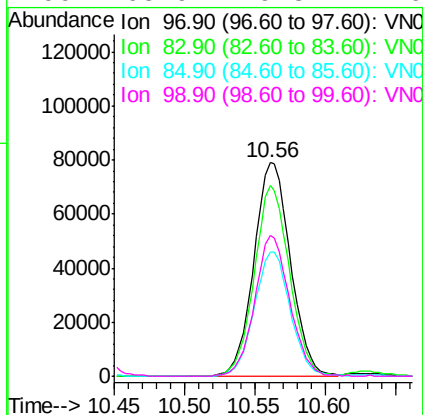
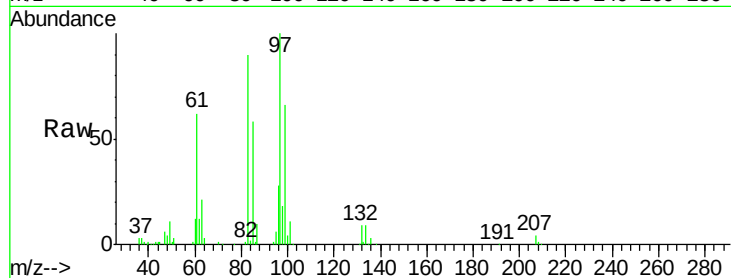
#55
 1,1,2-Trichloroethane
 Concen: 18.72 ug/l
 RT: 10.56 min Scan# 2790
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		143154		
83	89.5	69.0	103.6		
85	58.0	44.9	67.3		
99	65.9	49.8	74.6		

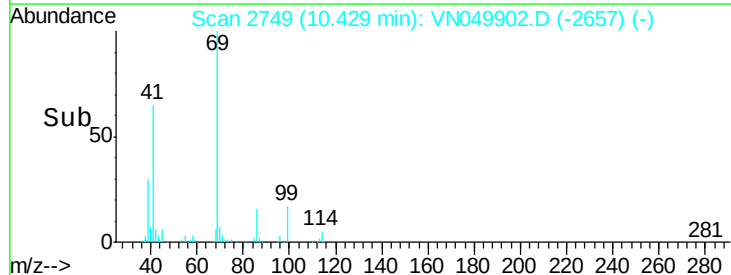
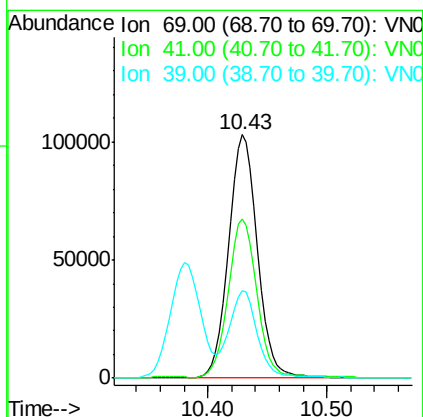
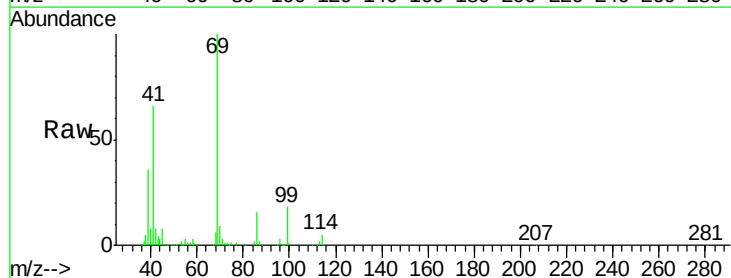
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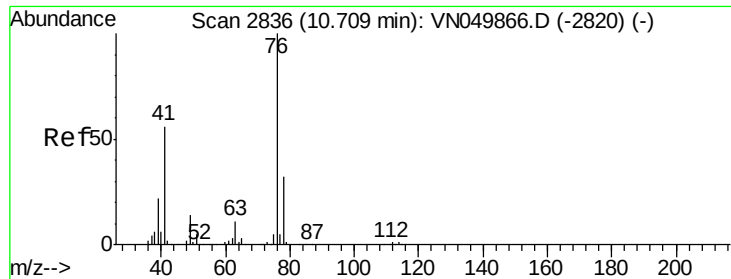
MMDadoda
 7/19/2018 4:29:01 PM



#56
 Ethyl methacrylate
 Concen: 18.32 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		173414		
41	64.6	51.6	77.4		
39	35.0	25.8	38.8		





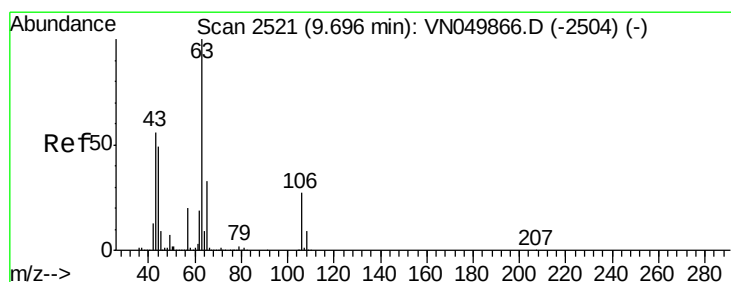
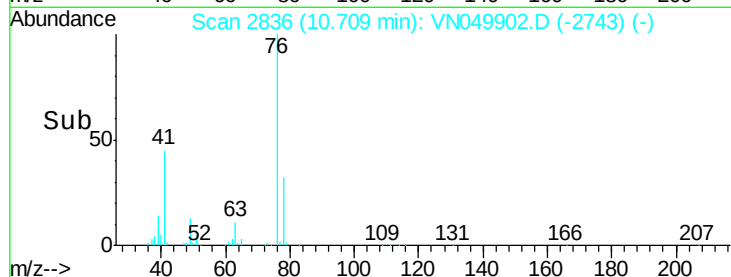
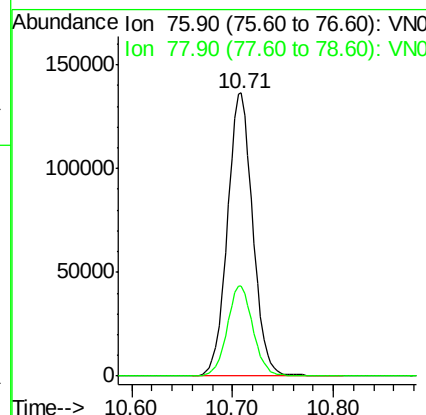
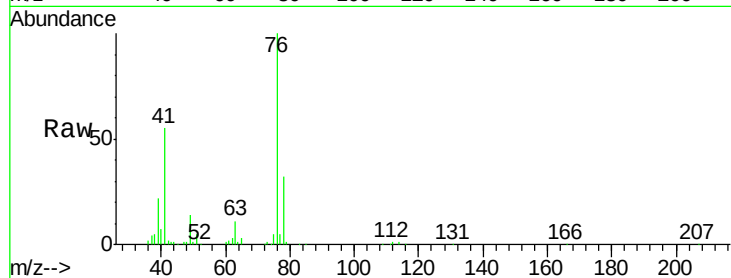
#57
 1,3-Dichloropropane
 Concen: 19.84 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS04

Tot Ion: 76 Resp: 238923
 Ion Ratio Lower Upper
 76 100
 78 32.3 25.8 38.8

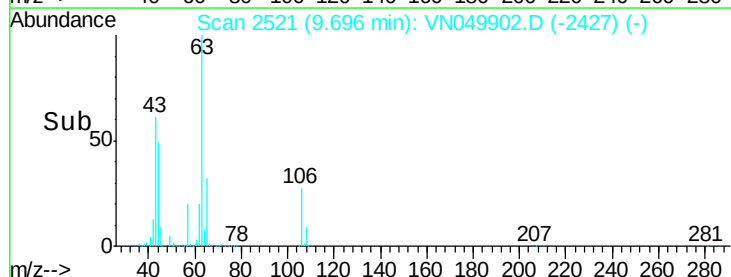
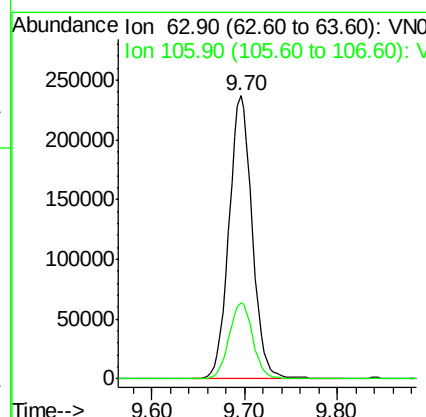
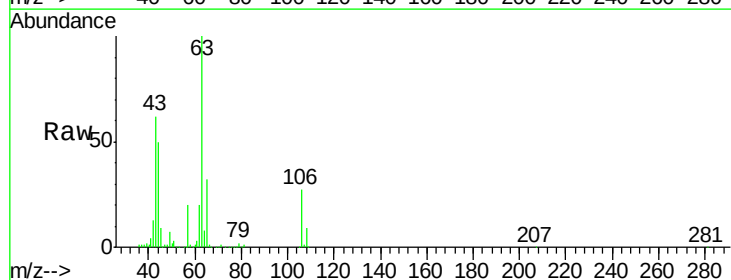
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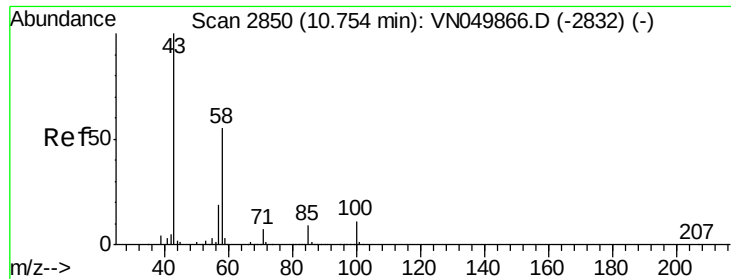
MMDadoda
 7/19/2018 4:29:01 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 100.94 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Tgt Ion: 63 Resp: 411218
 Ion Ratio Lower Upper
 63 100
 106 27.7 21.8 32.8





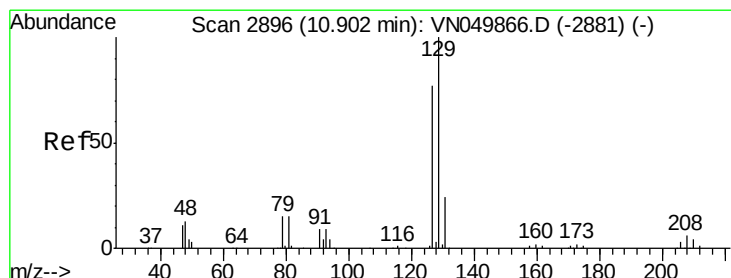
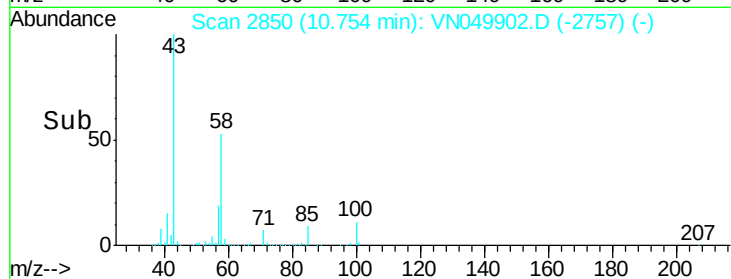
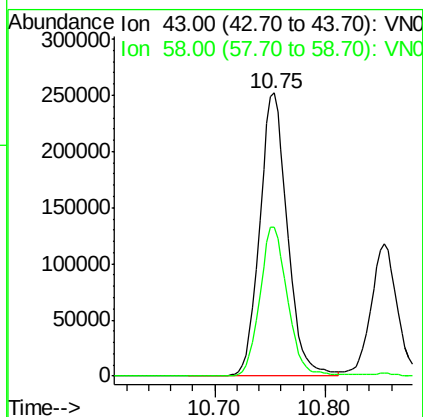
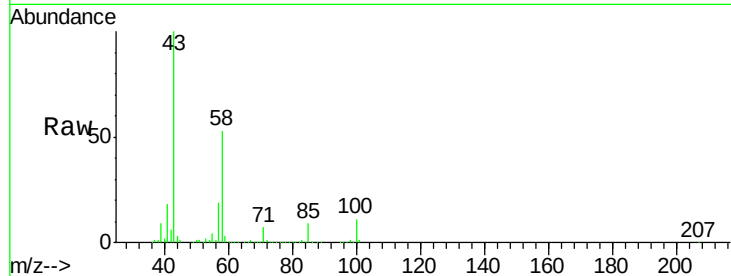
#59
2-Hexanone
Concen: 95.05 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	43	Resp	435943
Ion Ratio	100	Lower	Upper
58	53.0	27.8	83.4

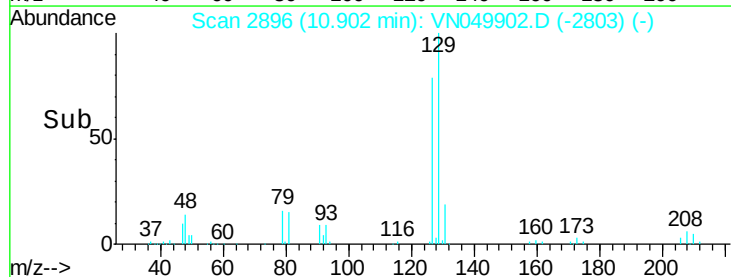
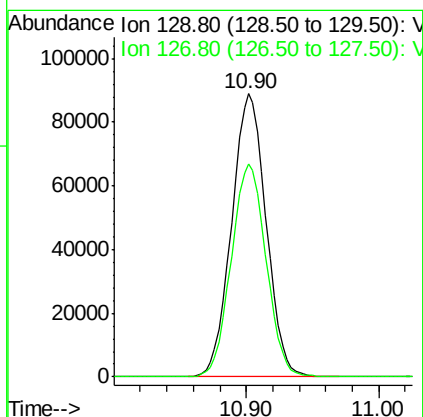
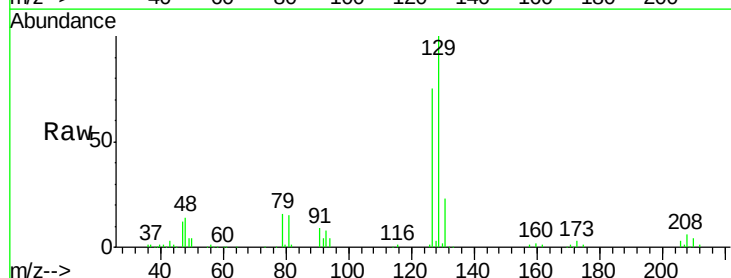
Manual Integrations
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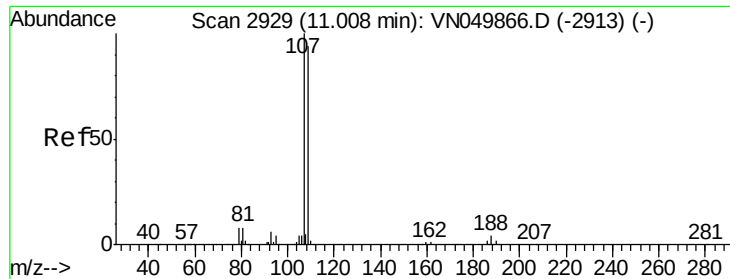
MMDadoda
7/19/2018 4:29:01 PM



#60
Dibromochloromethane
Concen: 19.15 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	129	Resp	160574
Ion Ratio	100	Lower	Upper
127	75.9	38.3	114.9





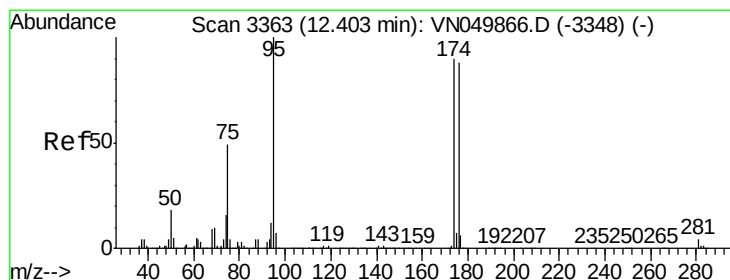
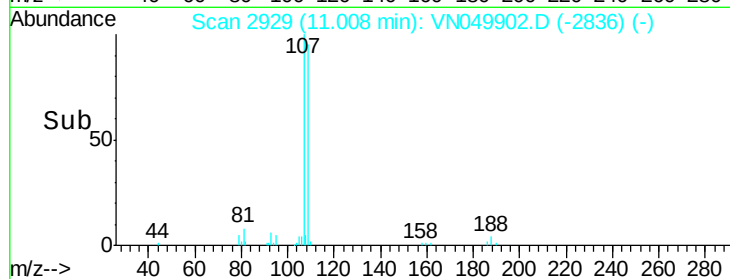
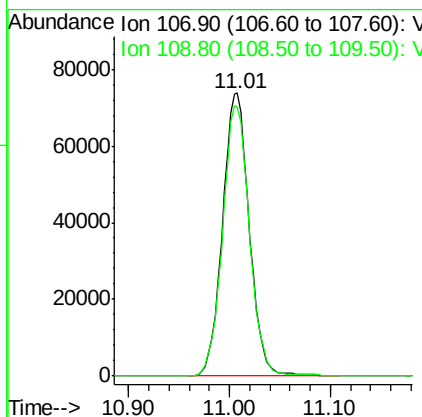
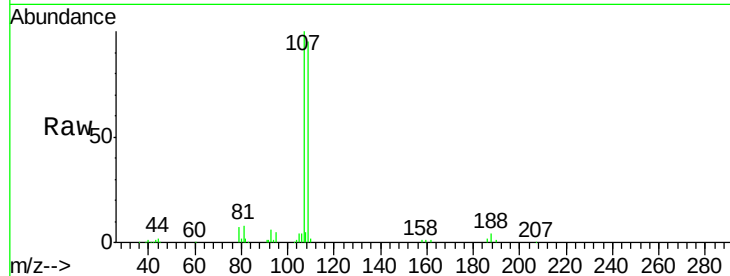
#61
 1,2-Dibromoethane
 Concen: 19.08 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS04

Tot Ion	Ratio	Resp	Lower	Upper
107	100	136353		
109	96.3	75.0	112.6	

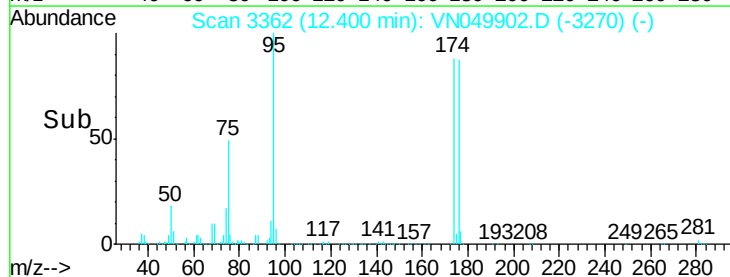
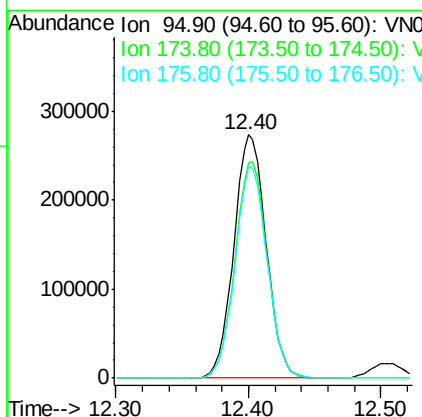
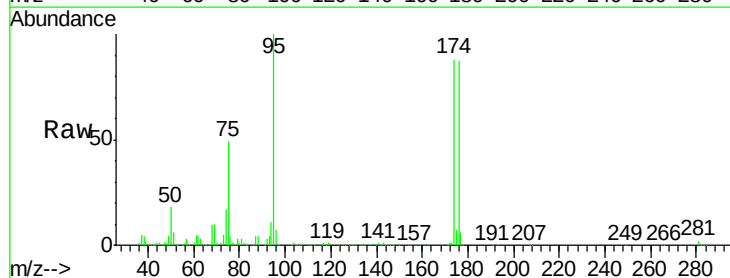
Manual Integrations
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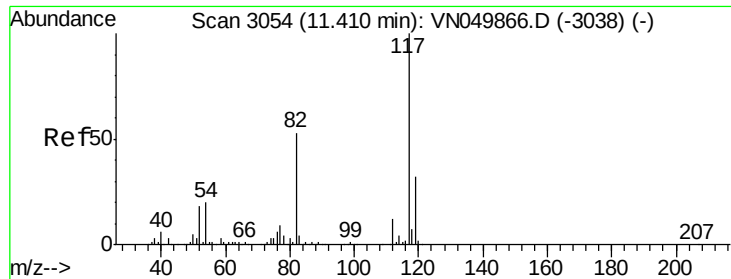
MMDadoda
 7/19/2018 4:29:01 PM



#62
 4-Bromofluorobenzene
 Concen: 47.83 ug/l
 RT: 12.40 min Scan# 3362
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	461379		
174	89.3	0.0	179.6	
176	86.9	0.0	174.0	





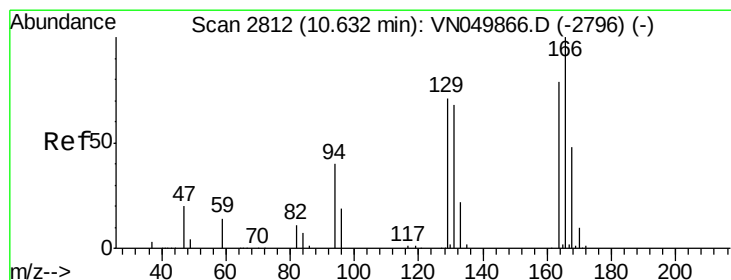
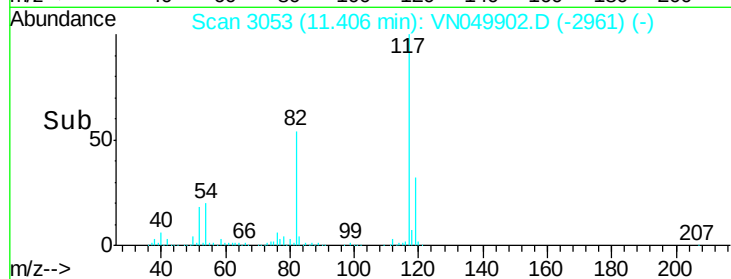
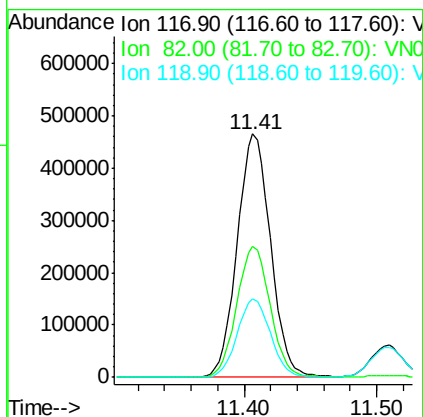
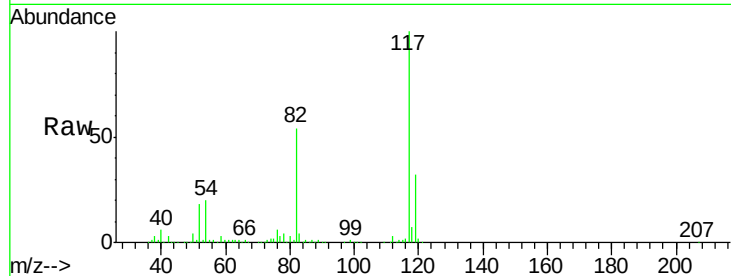
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	41.9	62.9
119	32.2	25.4	38.2

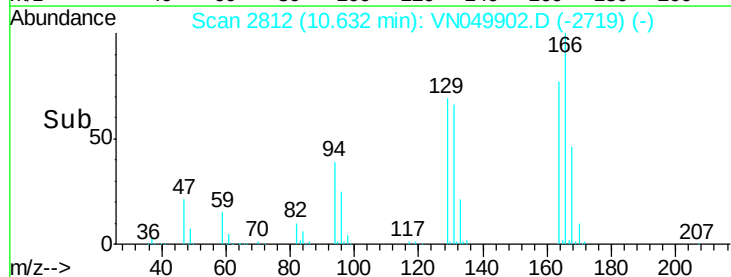
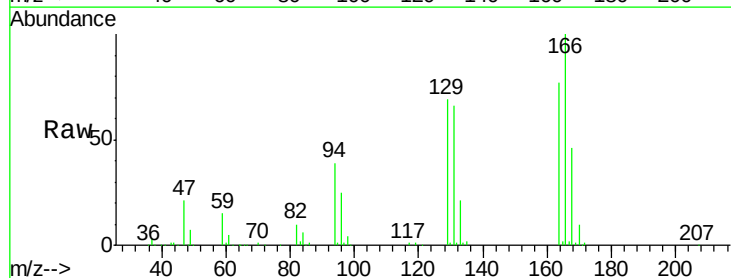
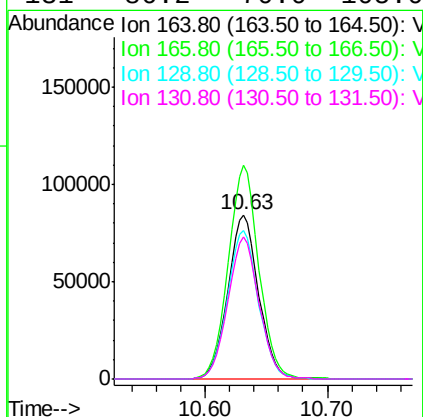
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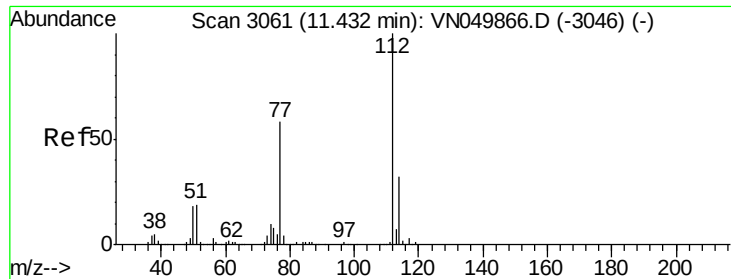
MMDadoda
7/19/2018 4:29:01 PM



#64
Tetrachloroethene
Concen: 20.25 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.9	101.8	152.6
129	90.2	72.8	109.2
131	86.2	70.0	105.0





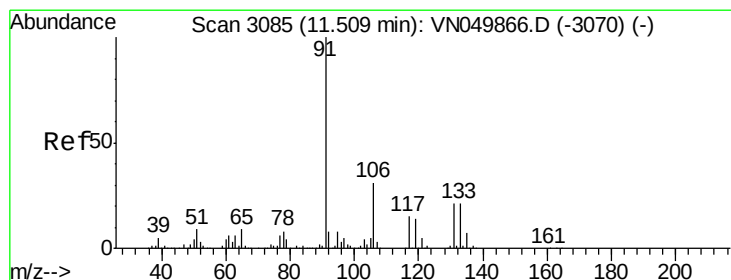
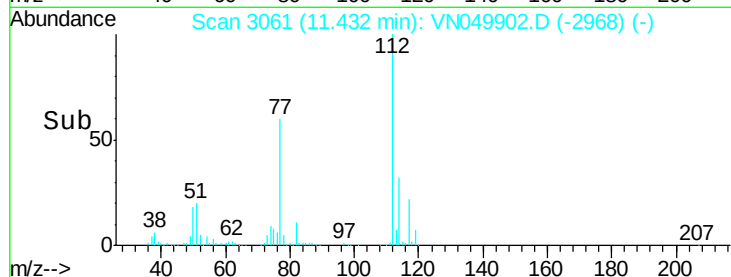
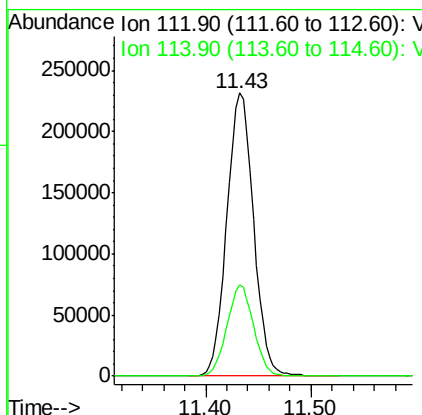
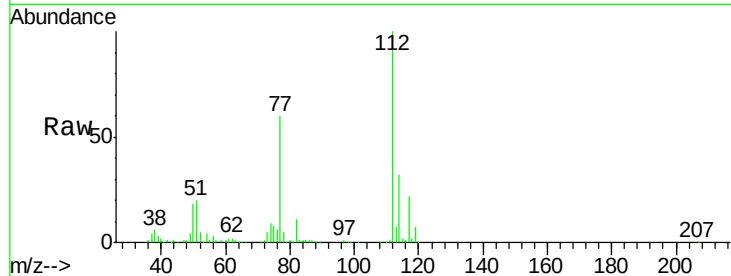
#65
Chlorobenzene
Concen: 19.84 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampled :
VN0718WBS04

Tot Ion:112 Resp: 406866
Ion Ratio Lower Upper
112 100
114 32.1 25.4 38.0

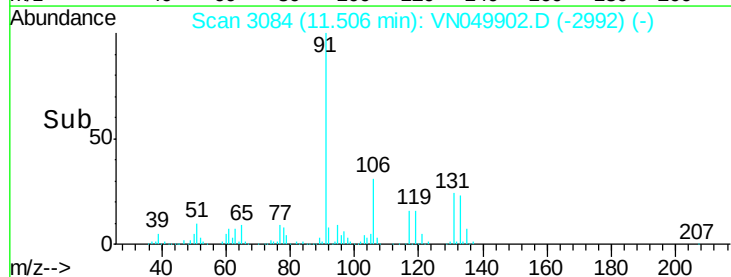
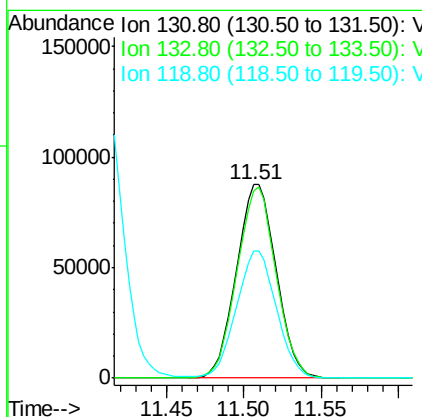
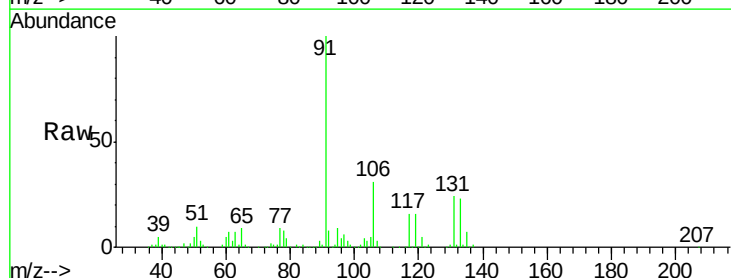
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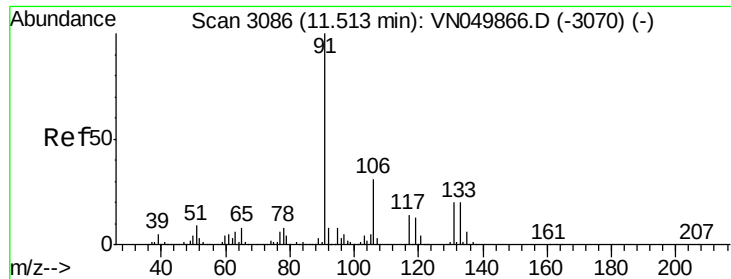
MMDadoda
7/19/2018 4:29:01 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.72 ug/l
RT: 11.51 min Scan# 3084
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion:131 Resp: 156639
Ion Ratio Lower Upper
131 100
133 97.0 47.5 142.6
119 66.2 33.1 99.3





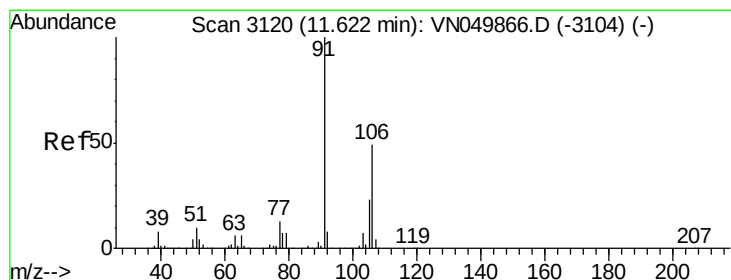
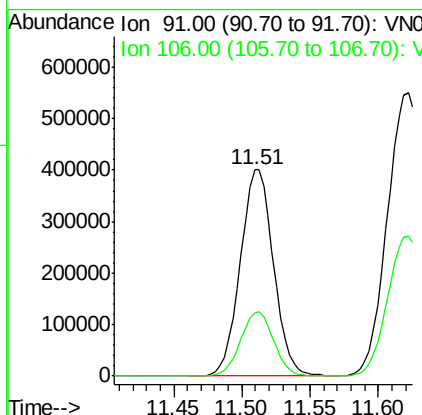
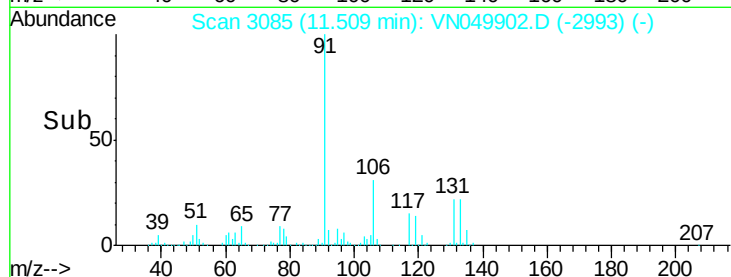
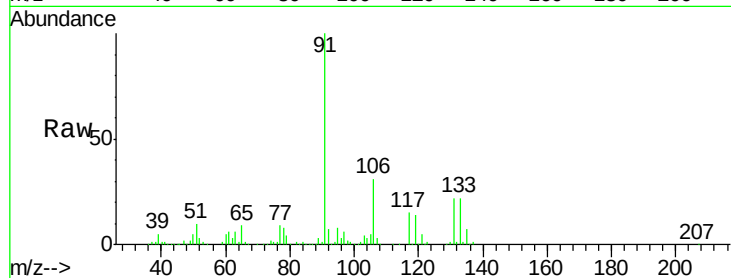
#67
Ethyl Benzene
Concen: 20.36 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion: 91 Resp: 677513
Ion Ratio Lower Upper
91 100
106 31.0 24.8 37.2

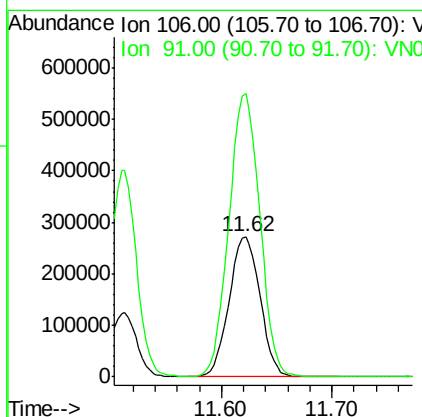
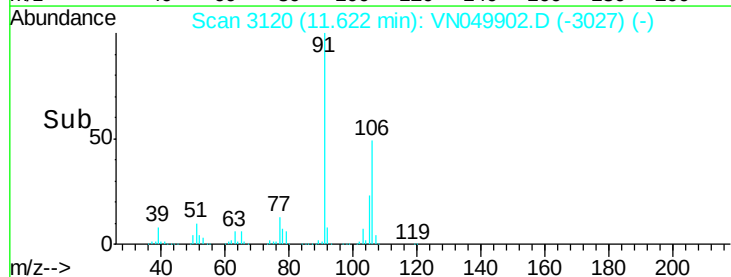
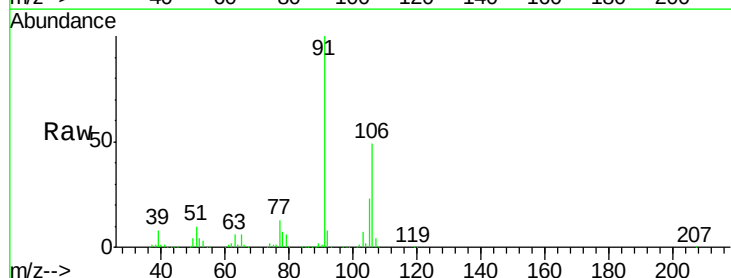
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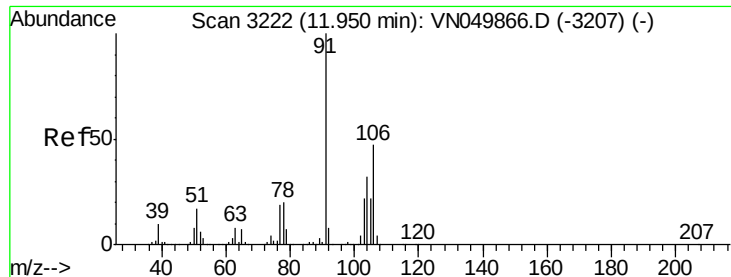
MMDadoda
7/19/2018 4:29:01 PM



#68
m/p-Xylenes
Concen: 42.05 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion: 106 Resp: 529619
Ion Ratio Lower Upper
106 100
91 202.3 163.4 245.2





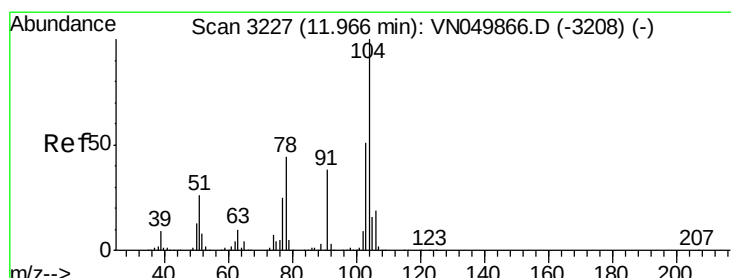
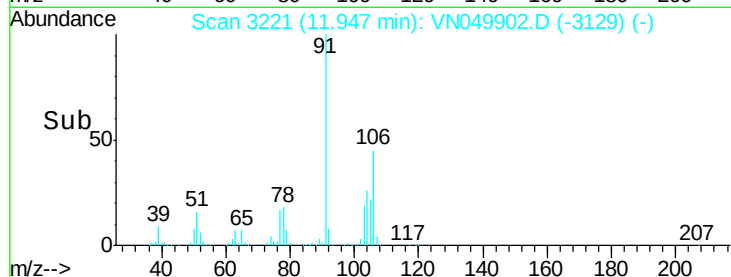
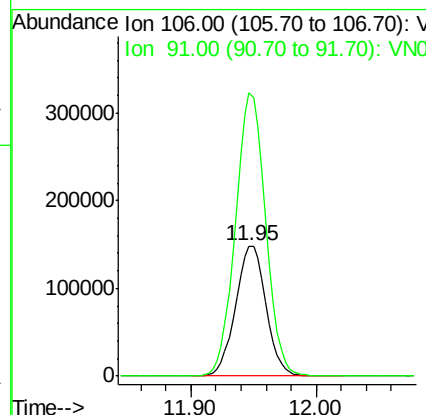
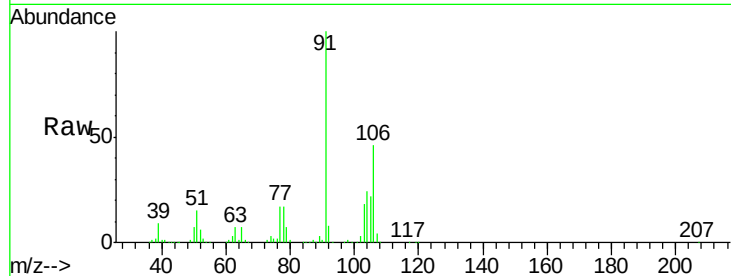
#69
o-Xylene
Concen: 20.61 ug/l
RT: 11.95 min Scan# 3221
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampled :
VN0718WBS04

Tot Ion:106 Resp: 249372
Ion Ratio Lower Upper
106 100
91 215.8 108.7 326.1

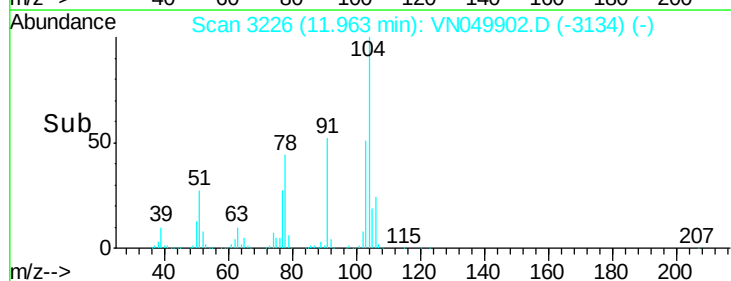
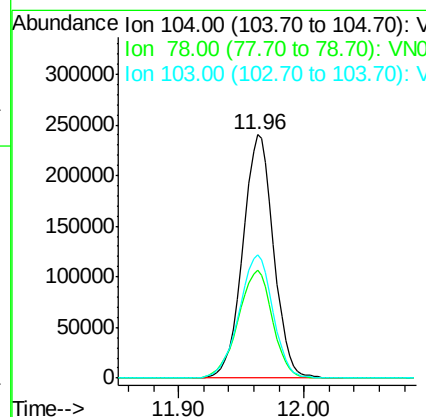
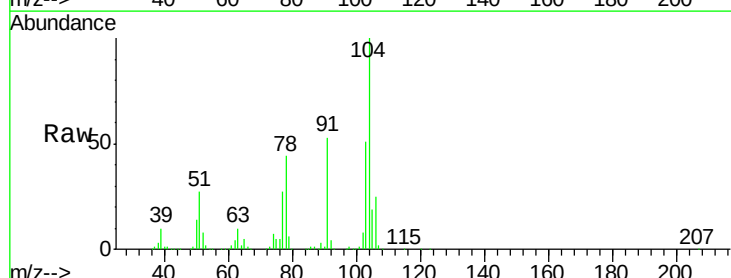
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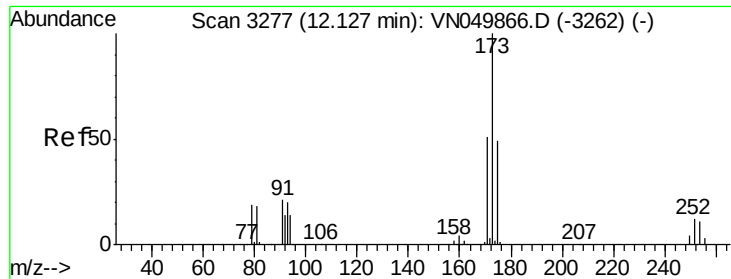
MMDadoda
7/19/2018 4:29:01 PM



#70
Styrene
Concen: 20.88 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion:104 Resp: 409114
Ion Ratio Lower Upper
104 100
78 49.5 39.2 58.8
103 55.6 44.6 67.0





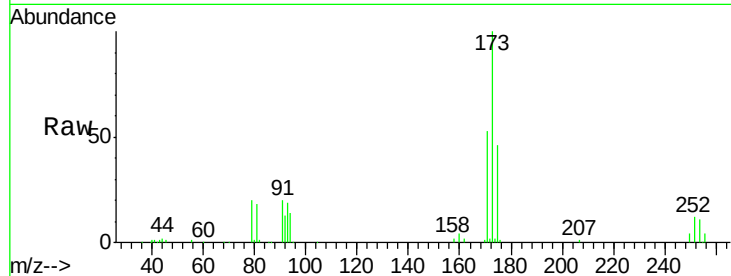
#71
Bromoform
Concen: 19.28 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

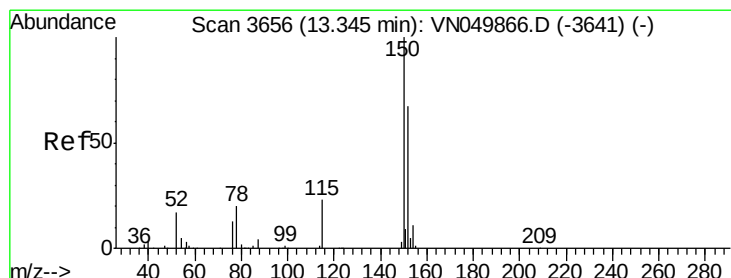
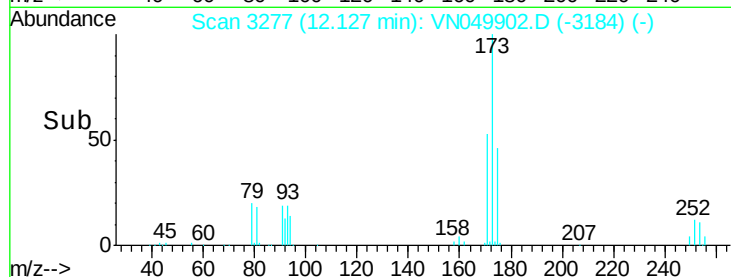
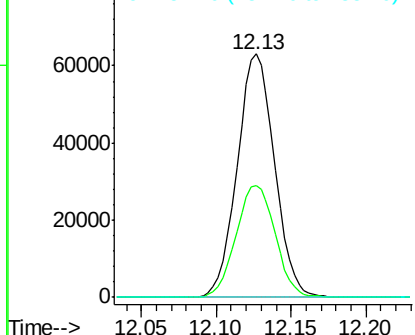
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.6	73.8
254	0.1	0.2	0.2#

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7/19/2018 4:29:01 PM

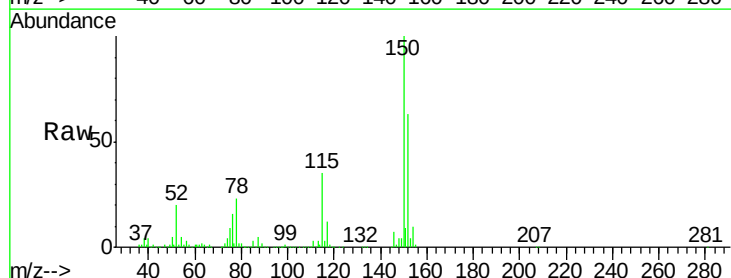


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

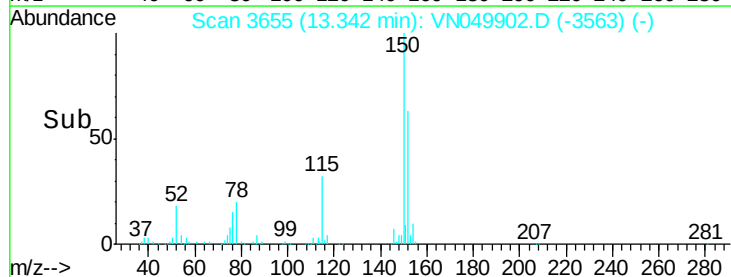
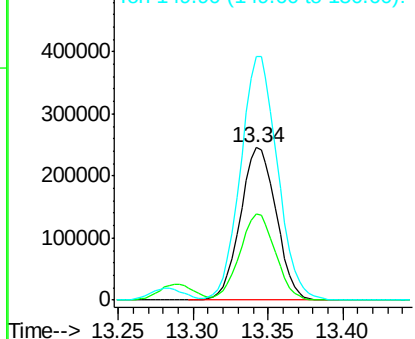


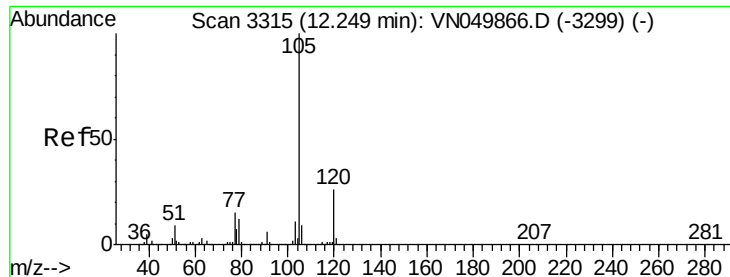
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3655
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	28.1	84.2
150	165.0	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





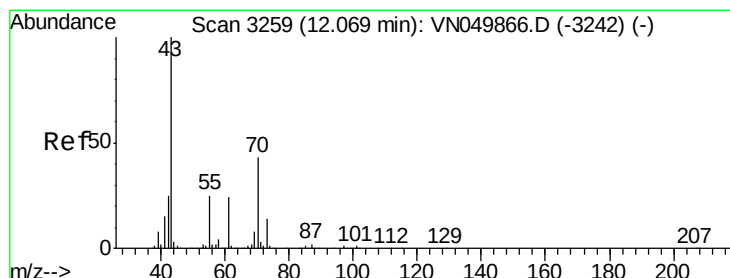
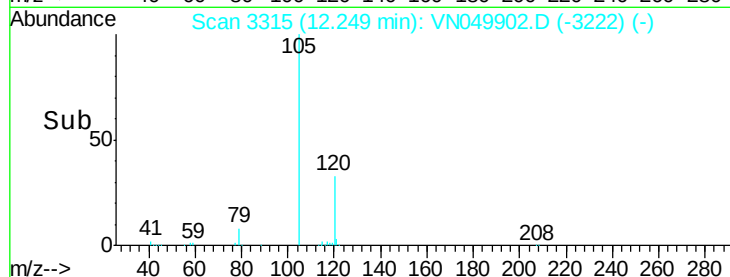
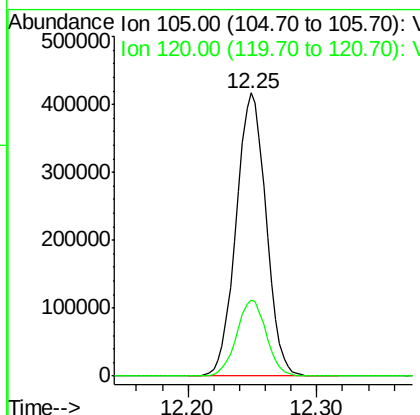
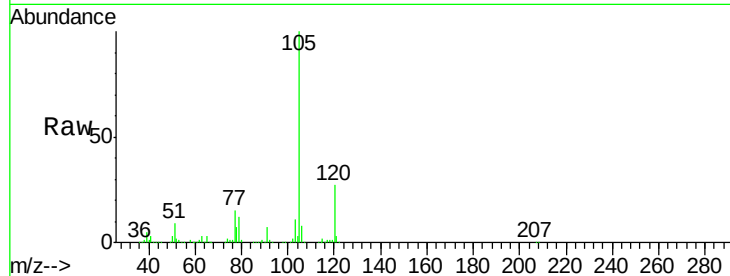
#73
Isopropylbenzene
Concen: 21.63 ug/l
RT: 12.25 min Scan# 3315
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.6	13.3	39.8

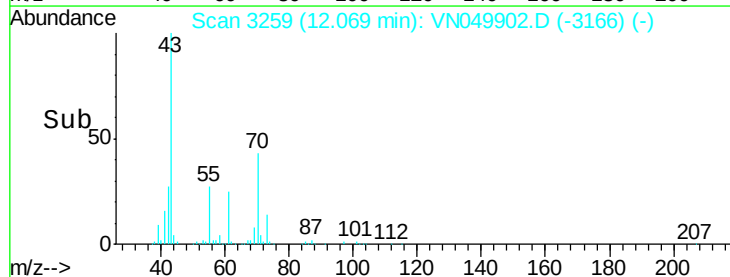
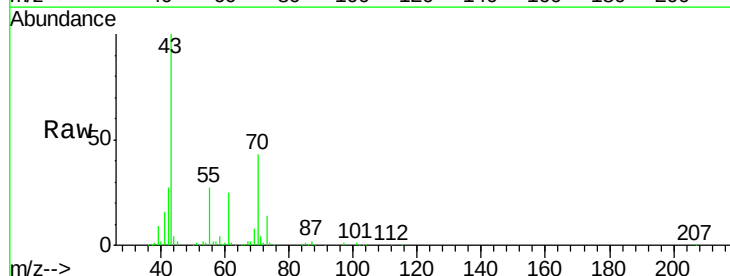
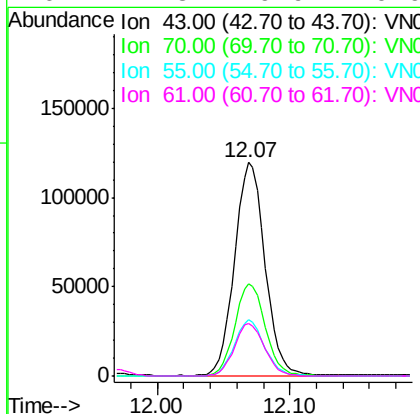
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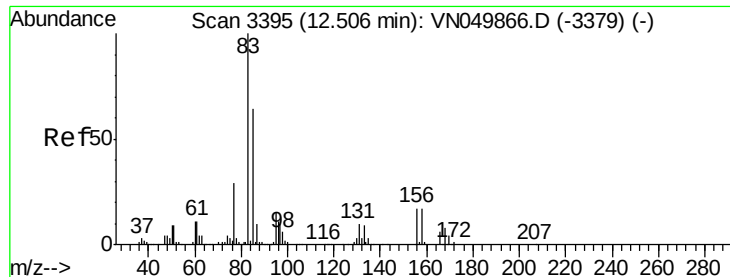
MMDadoda
7/19/2018 4:29:01 PM



#74
N-ethyl acetate
Concen: 20.13 ug/l
RT: 12.07 min Scan# 3259
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Lower	Upper
43	100		
70	43.1	34.8	52.2
55	26.2	20.9	31.3
61	24.3	19.9	29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 19.42 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS04

Tot Ion: 83 Resp: 180649

Ion Ratio Lower Upper

83 100

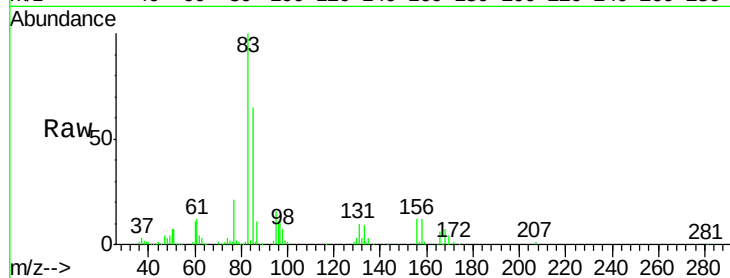
131 10.3 5.2 15.6

85 64.9 32.5 97.4

Manual Integrations
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MMDadoda

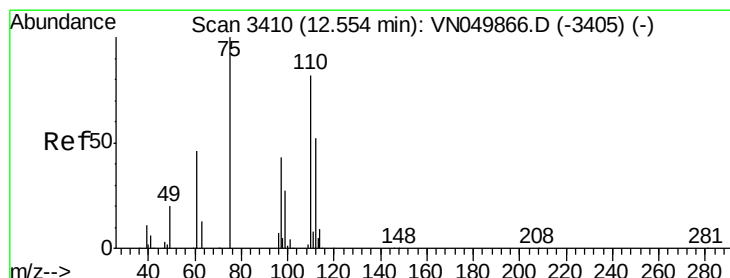
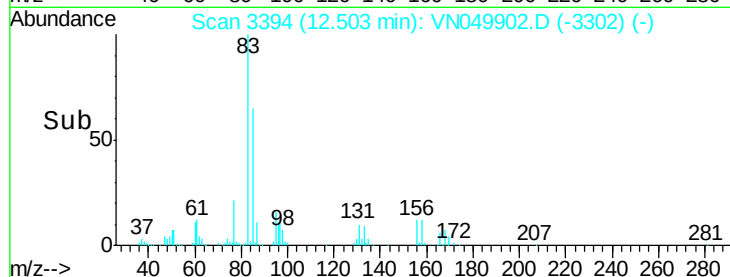
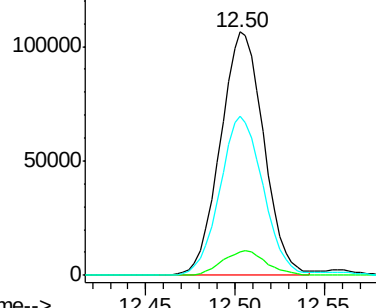
7/19/2018 4:29:01 PM



Abundance Ion 82.90 (82.60 to 83.60): VN049902.D (-3302) (-)

Ion 130.80 (130.50 to 131.50): VN049902.D (-3302) (-)

Ion 84.90 (84.60 to 85.60): VN049902.D (-3302) (-)



#76

1,2,3-Trichloropropane

Concen: 19.10 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN049902.D

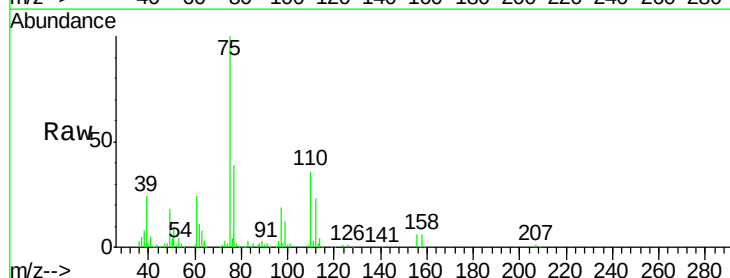
Acq: 19 Jul 2018 4:53

Tgt Ion: 75 Resp: 146469

Ion Ratio Lower Upper

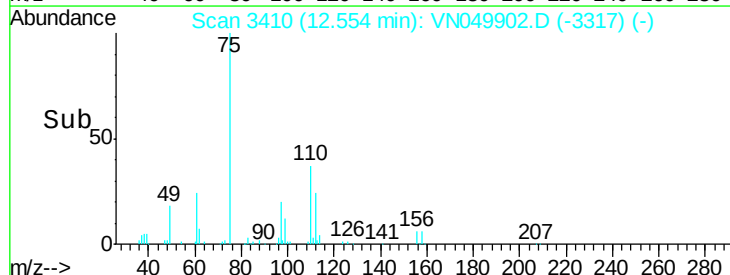
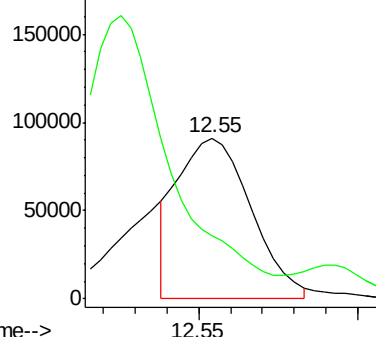
75 100

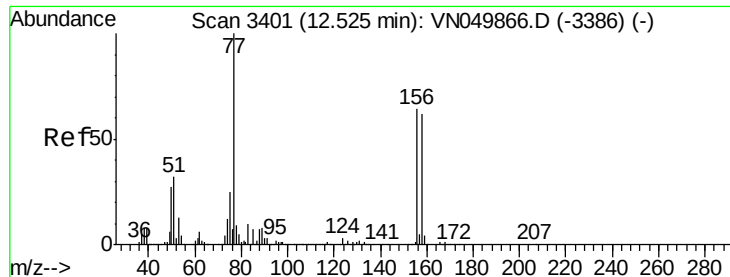
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN049902.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049902.D (-3317) (-)





#77

Bromobenzene

Concen: 20.69 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS04

Tot Ion:156 Resp: 177390

Ion Ratio Lower Upper

156 100

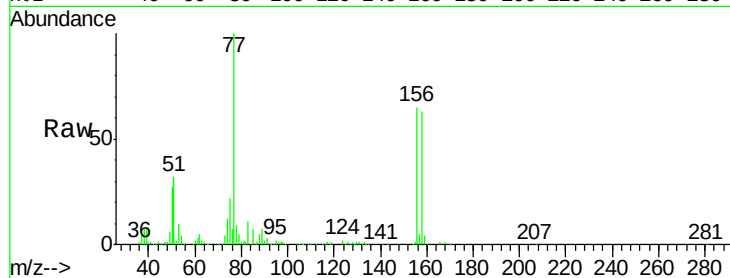
77 183.8 90.2 270.6

158 97.6 49.1 147.3

Manual Integrations
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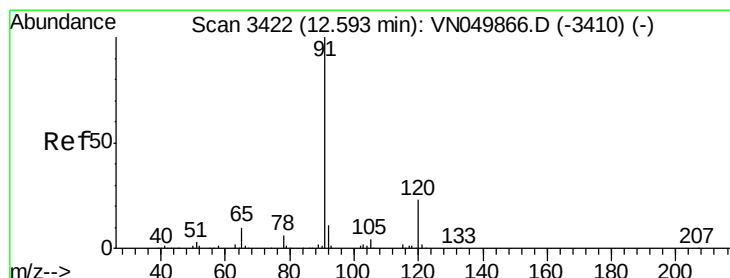
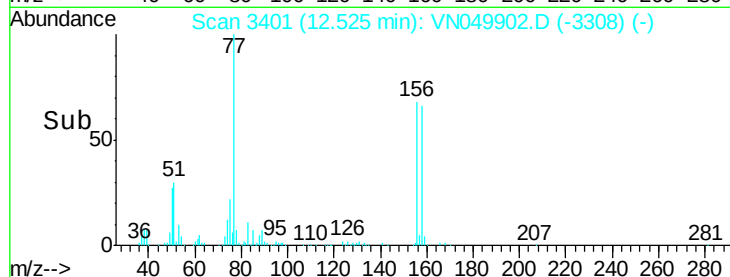
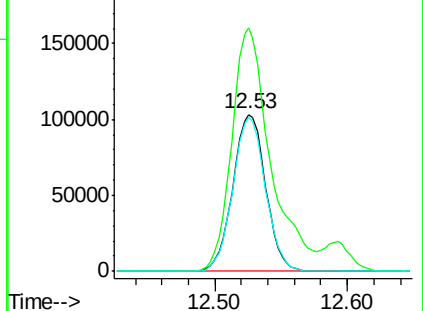
7/19/2018 4:29:01 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.70 ug/l

RT: 12.59 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN049902.D

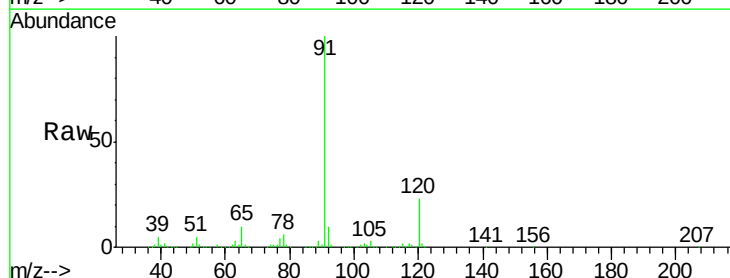
Acq: 19 Jul 2018 4:53

Tgt Ion: 91 Resp: 766004

Ion Ratio Lower Upper

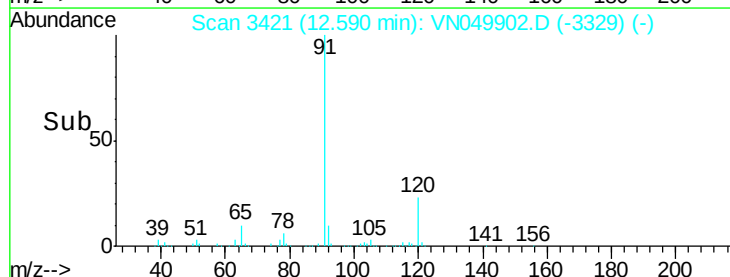
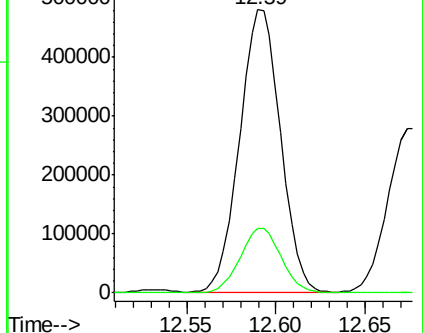
91 100

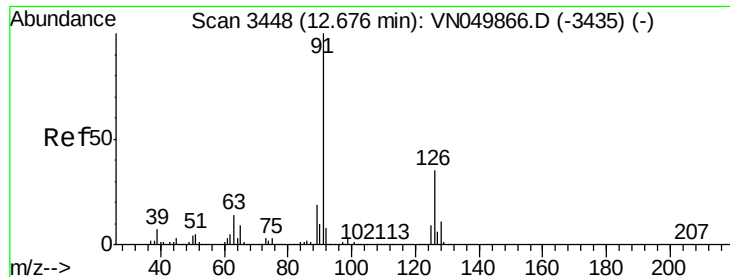
120 23.1 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.39 ug/l

RT: 12.67 min Scan# 3447

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS04

Tot Ion: 91 Resp: 463469

Ion Ratio Lower Upper

91 100

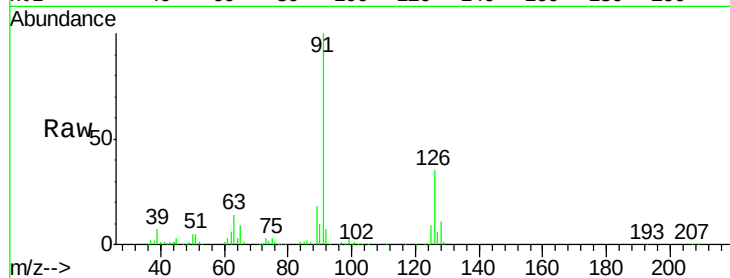
126 35.8 17.5 52.5

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN049902.D (-3355) (-)

Ion 125.90 (125.60 to 126.60): VN049902.D (-3355) (-)

400000

300000

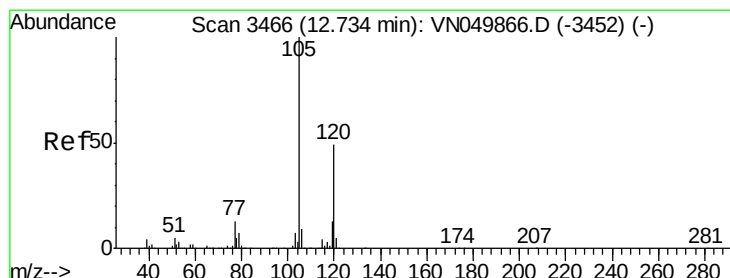
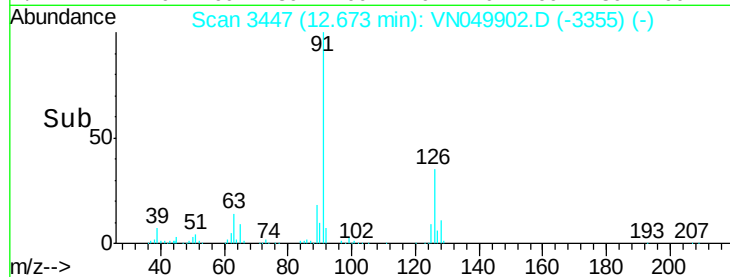
200000

100000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 22.17 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN049902.D

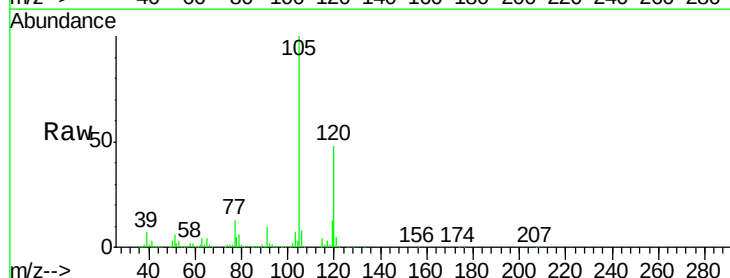
Acq: 19 Jul 2018 4:53

Tgt Ion: 105 Resp: 551759

Ion Ratio Lower Upper

105 100

120 48.5 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN049902.D (-3373) (-)

Ion 120.00 (119.70 to 120.70): VN049902.D (-3373) (-)

400000

300000

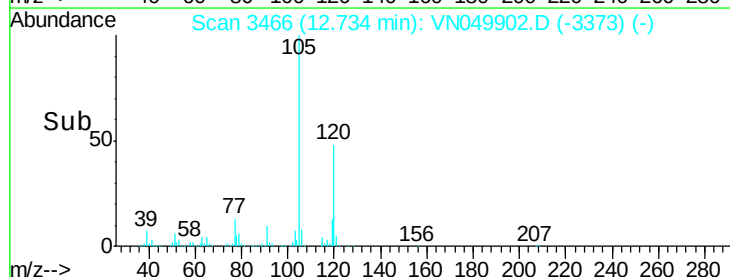
200000

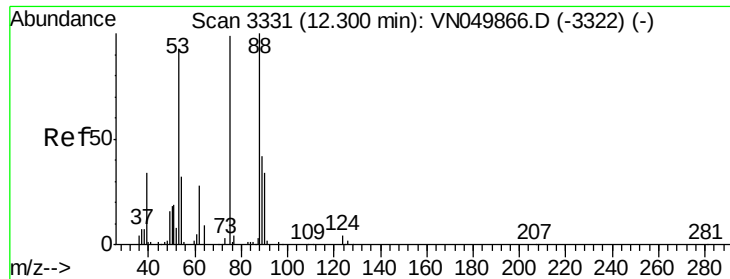
100000

0

12.70 12.80

Time-->





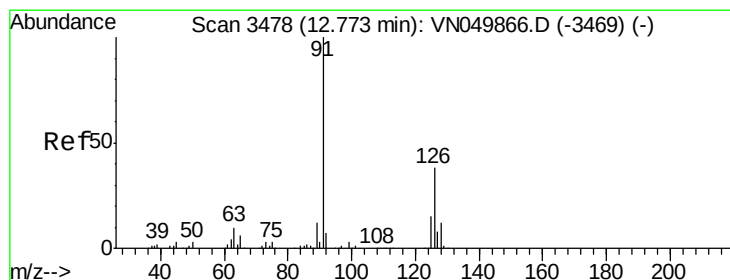
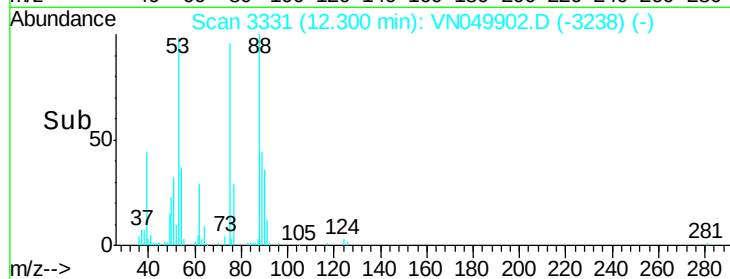
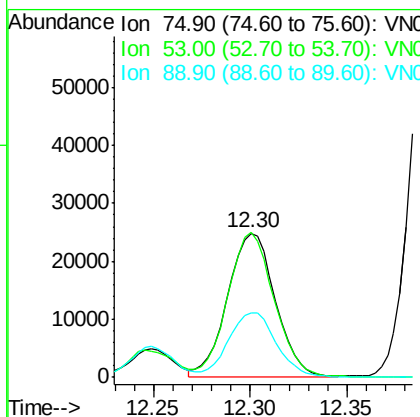
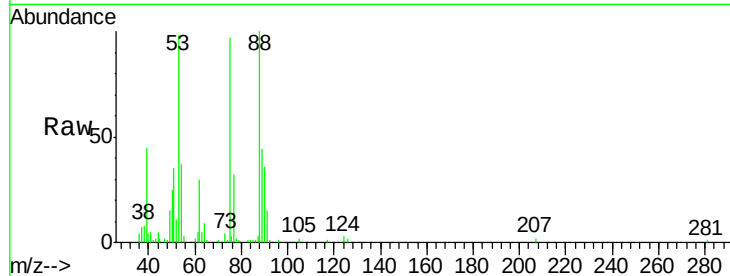
#81
trans-1,4-Dichloro-2-butene
Concen: 17.47 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	Ratio	Lower	Upper
75	100		
53	97.9	73.9	110.9
89	44.9	35.9	53.9

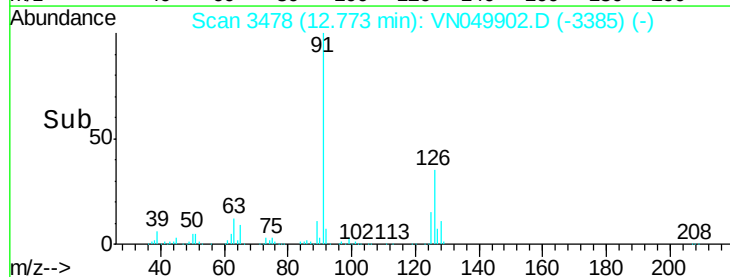
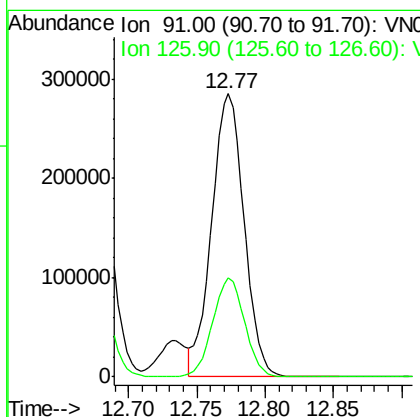
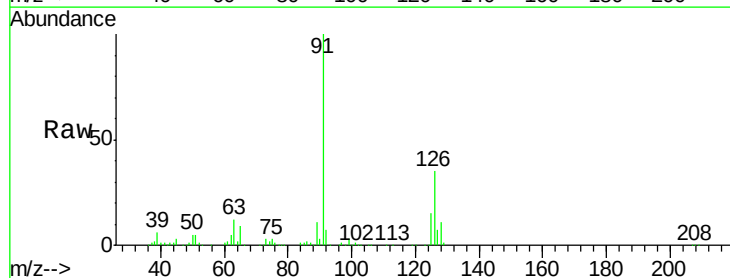
Manual Integrations
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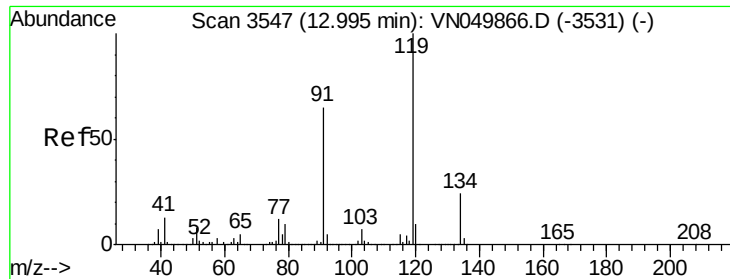
MMDadoda
7/19/2018 4:29:01 PM



#82
4-Chlorotoluene
Concen: 21.56 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.2	51.6





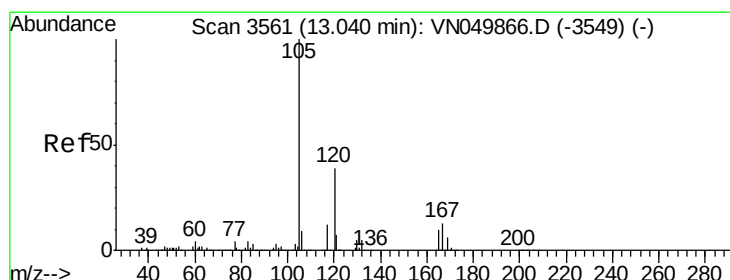
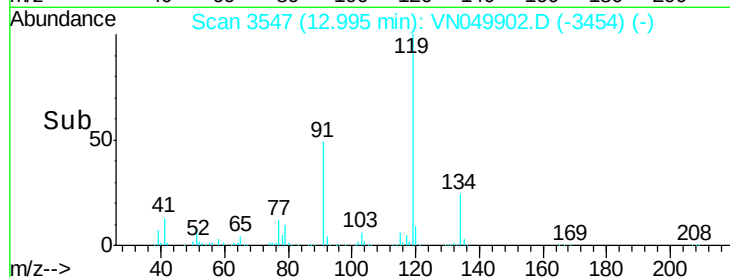
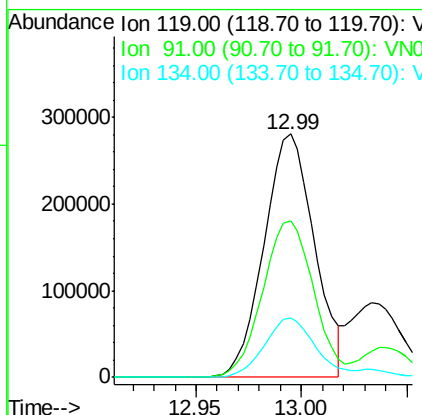
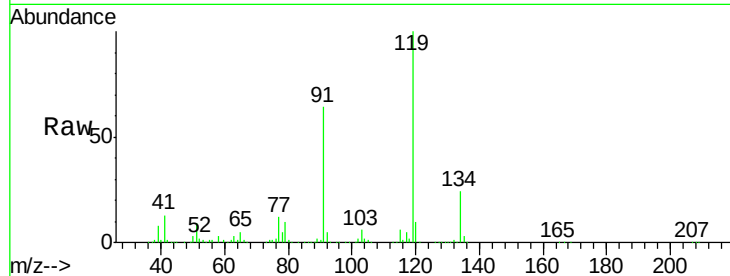
#83
 tert-Butylbenzene
 Concen: 21.39 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS04

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.8	32.0	96.2
134	24.9	12.8	38.4

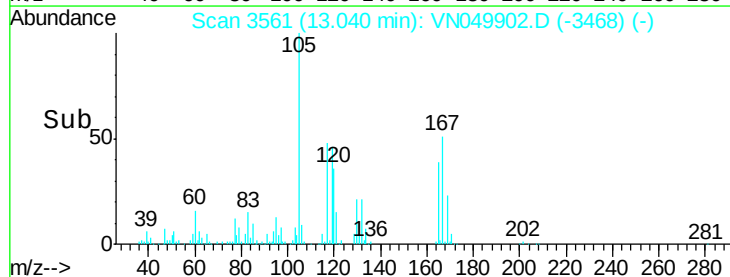
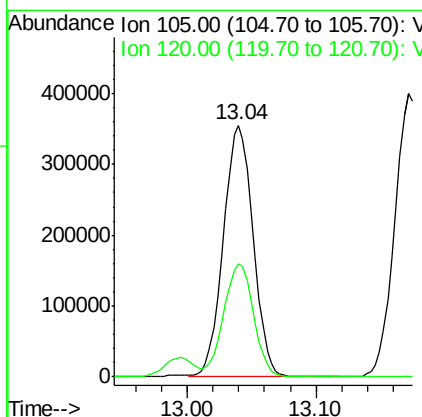
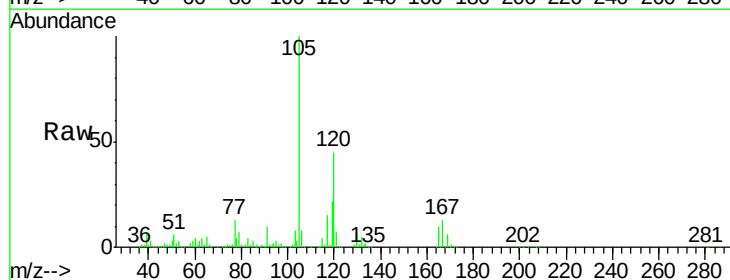
Manual Integrations
 APPROVED

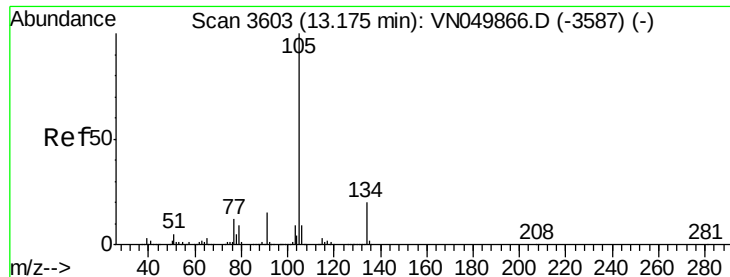
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 22.43 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.7	68.1





#85

sec-Butylbenzene

Concen: 21.72 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBS04

Tot Ion:105 Resp: 627142

Ion Ratio Lower Upper

105 100

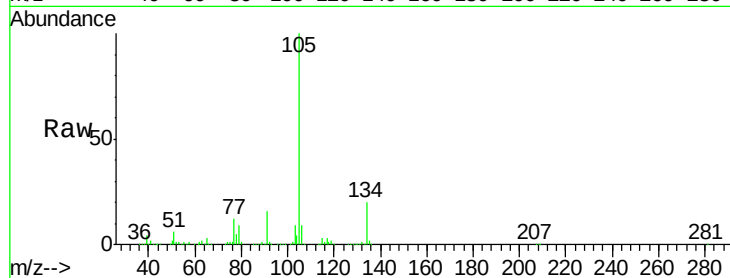
134 20.2 10.1 30.1

Manual Integrations

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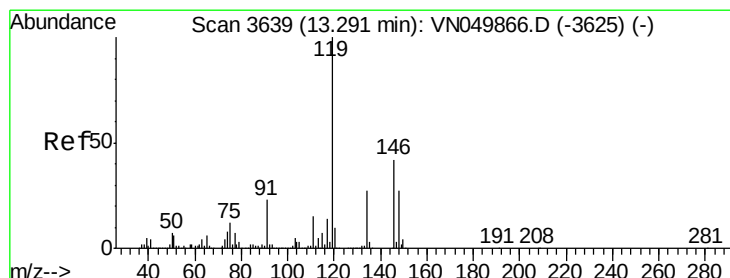
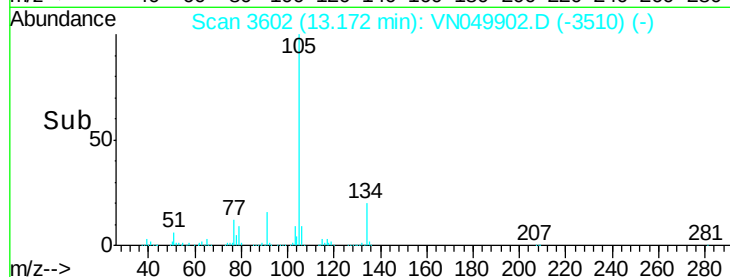
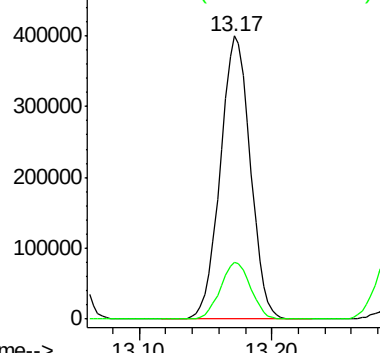
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.63 ug/l

RT: 13.29 min Scan# 3638

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

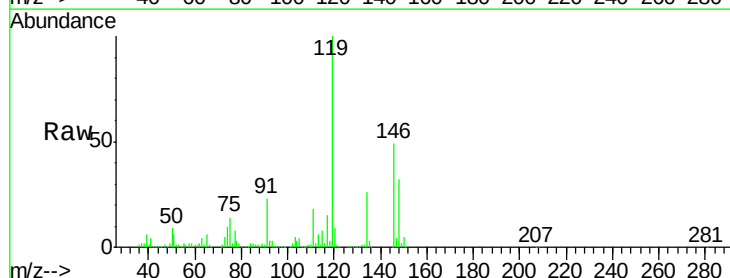
Tgt Ion:119 Resp: 532483

Ion Ratio Lower Upper

119 100

134 26.6 13.3 39.9

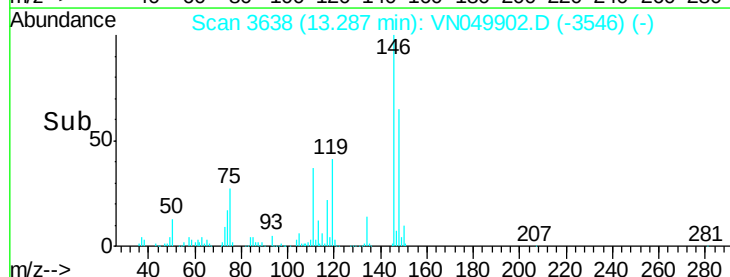
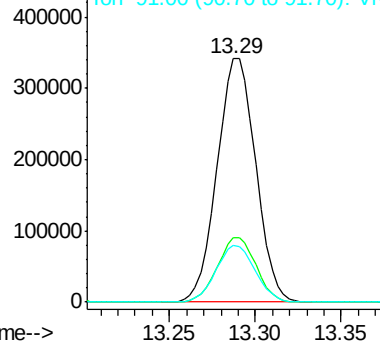
91 23.5 11.4 34.1

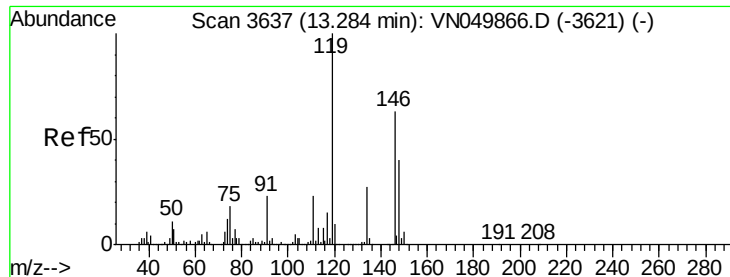


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 20.53 ug/l

RT: 13.28 min Scan# 3636

Delta R.T. -0.00 min

Lab File: VN049902.D

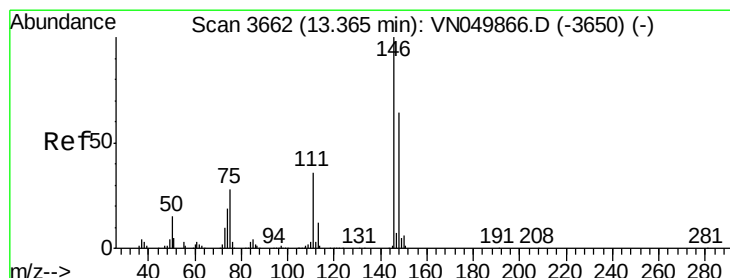
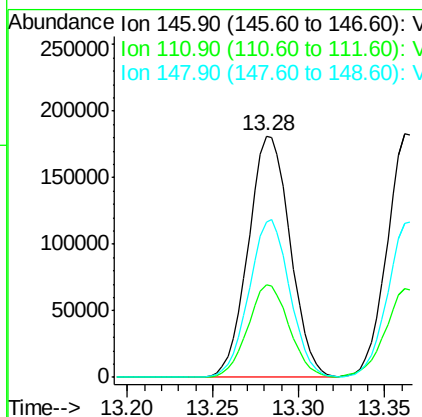
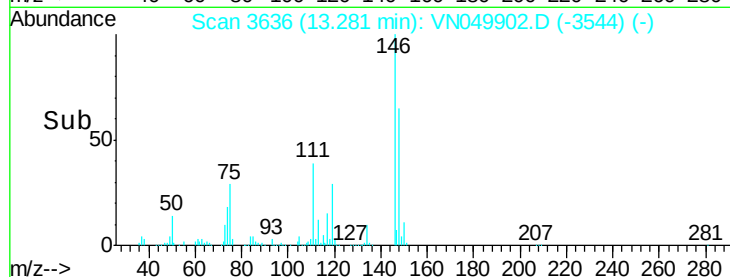
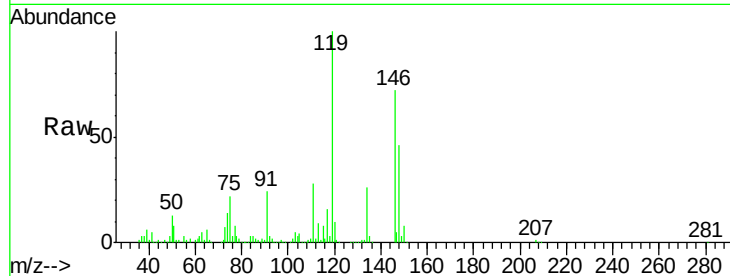
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.0	57.0
148	63.6	32.5	97.5

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 19.90 ug/l

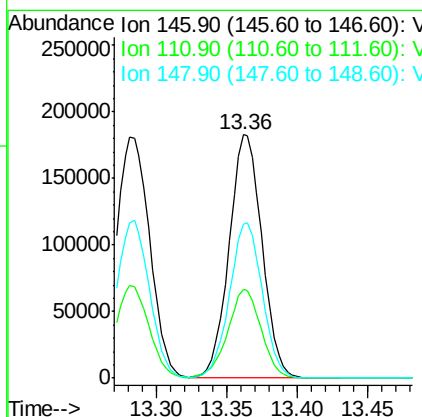
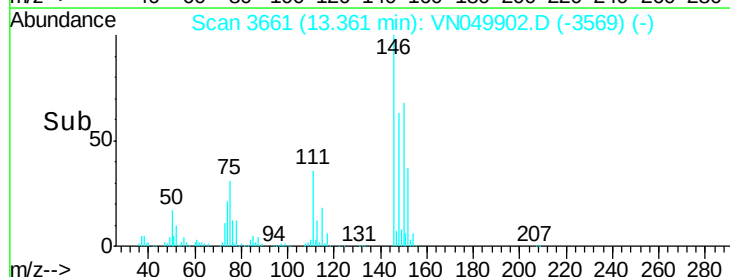
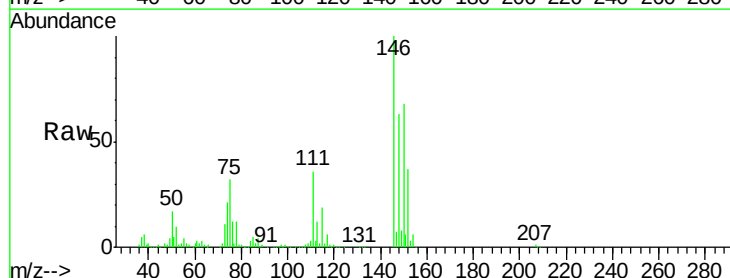
RT: 13.36 min Scan# 3661

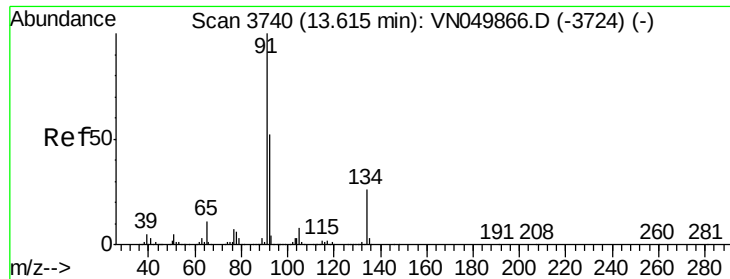
Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.9	56.5
148	63.7	32.1	96.3





#89

n-Butylbenzene

Concen: 20.42 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

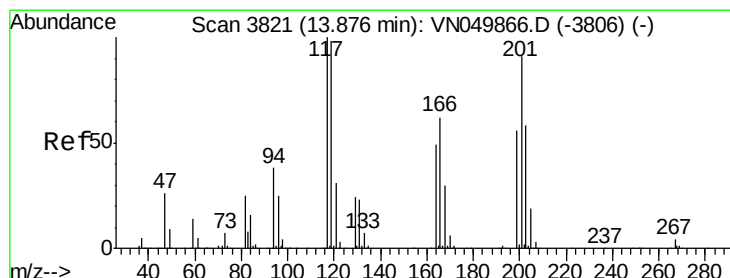
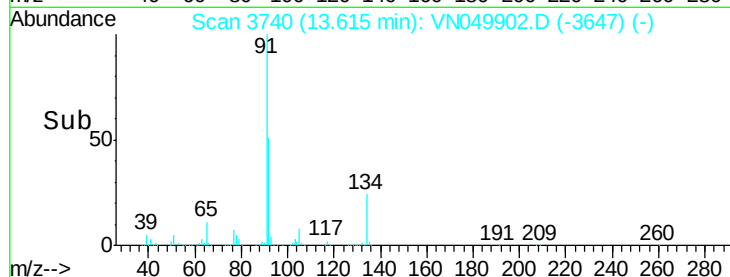
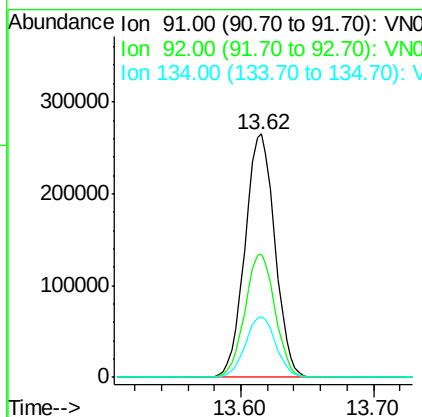
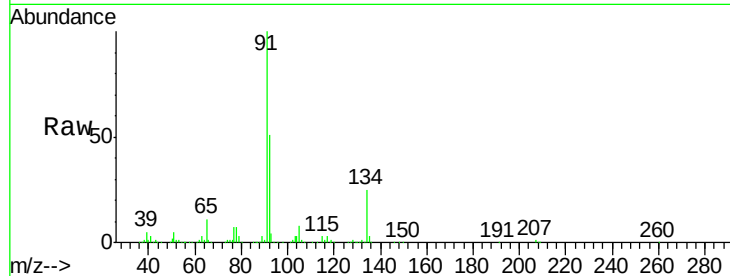
ClientSampleId :

VN0718WBS04

Tot Ion:	91	Resp:	415078
Ion	Ratio	Lower	Upper
91	100		
92	51.0	25.8	77.3
134	25.2	13.0	38.9

Manual Integrations
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#90

Hexachloroethane

Concen: 18.89 ug/l

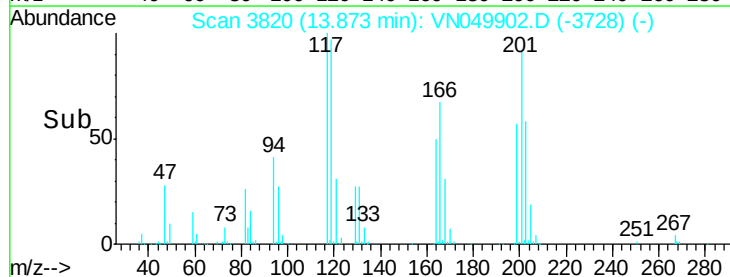
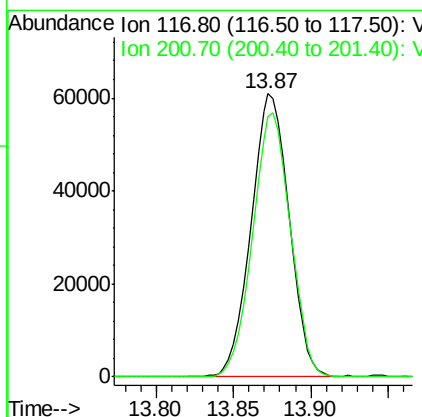
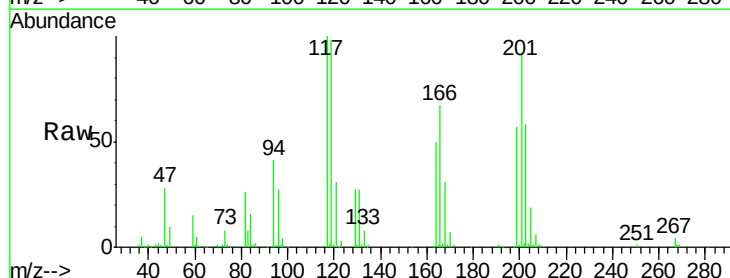
RT: 13.87 min Scan# 3820

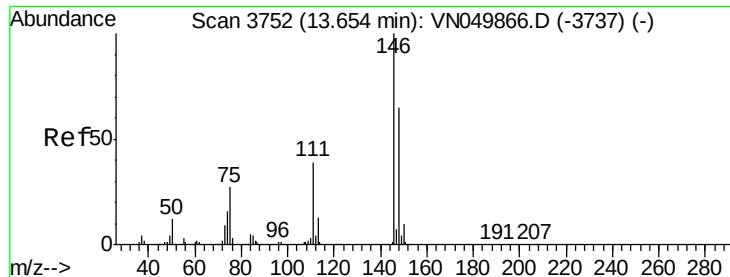
Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Tgt Ion:	117	Resp:	104384
Ion	Ratio	Lower	Upper
117	100		
201	92.6	45.3	135.8





#91

1,2-Dichlorobenzene

Concen: 20.38 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Instrument :

MSVOA_N

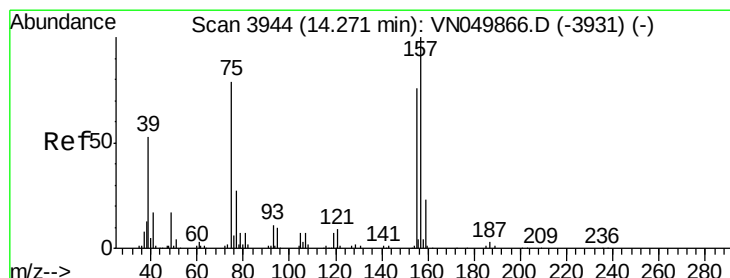
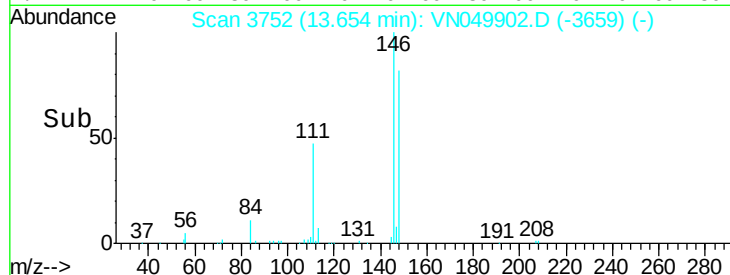
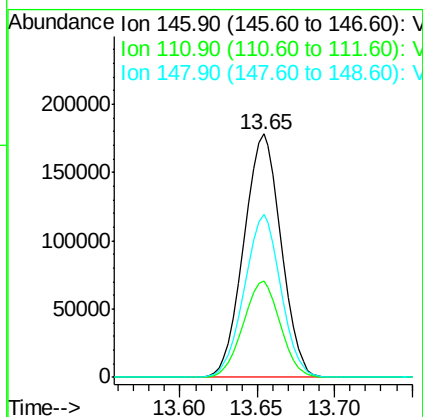
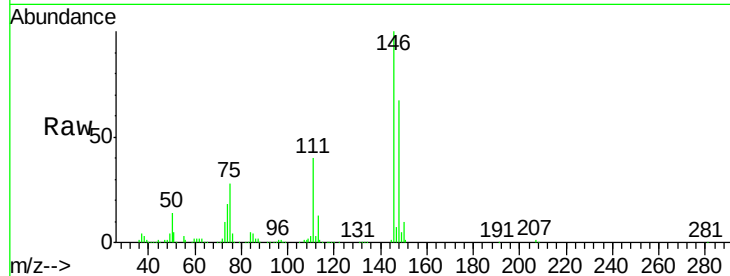
ClientSampleId :

VN0718WBS04

Tot Ion:	146	Resp:	299345
Ion Ratio	Lower	Upper	
146	100		
111	39.4	19.7	59.1
148	65.5	32.0	96.2

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 19.45 ug/l

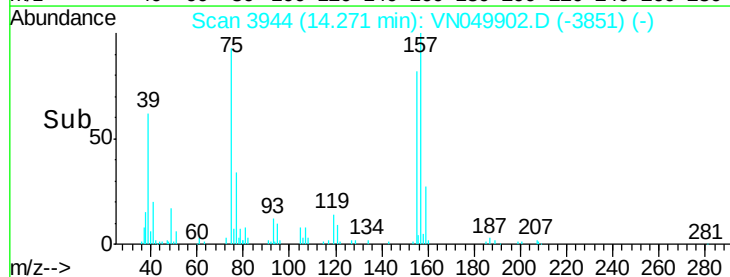
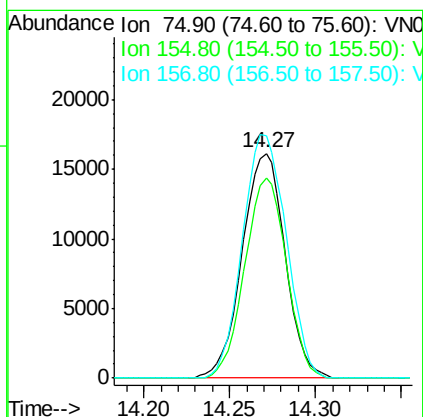
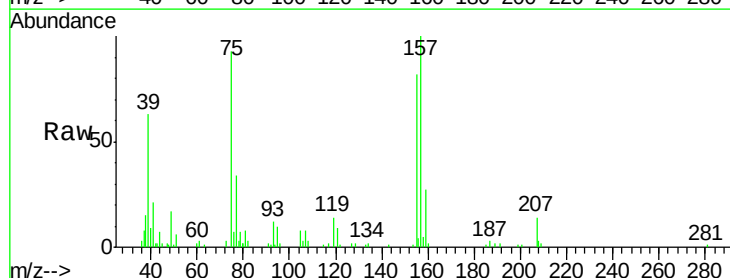
RT: 14.27 min Scan# 3944

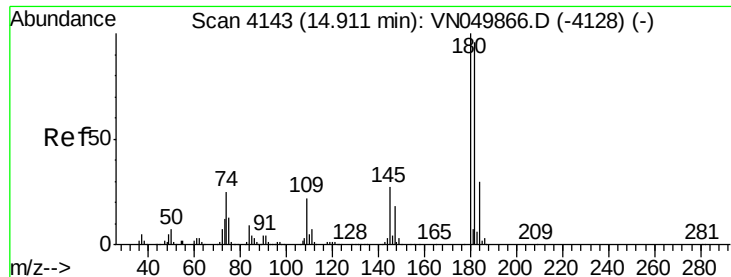
Delta R.T. -0.00 min

Lab File: VN049902.D

Acq: 19 Jul 2018 4:53

Tgt Ion:	75	Resp:	27958
Ion Ratio	Lower	Upper	
75	100		
155	86.3	45.7	137.1
157	110.6	56.9	170.7





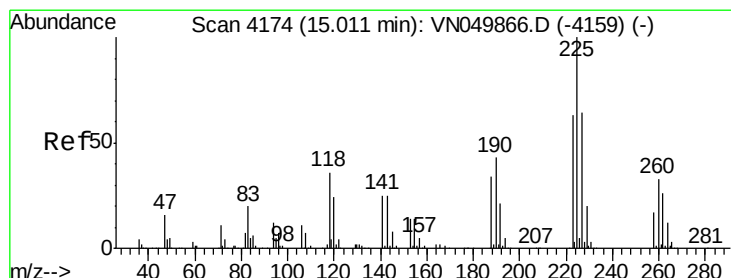
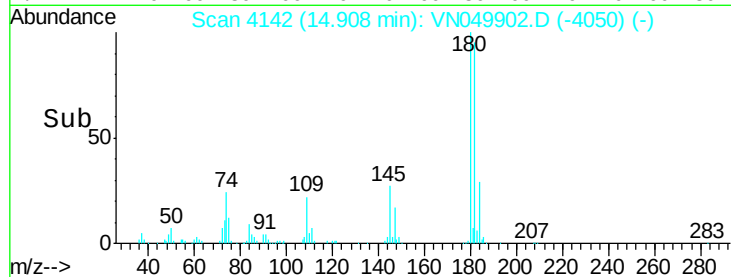
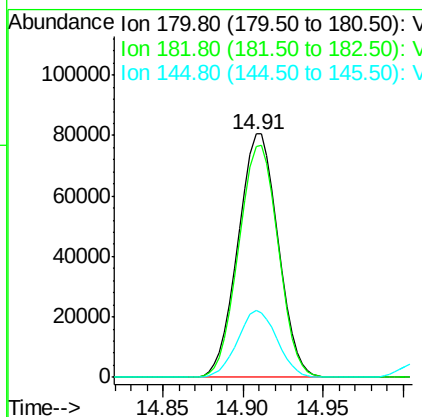
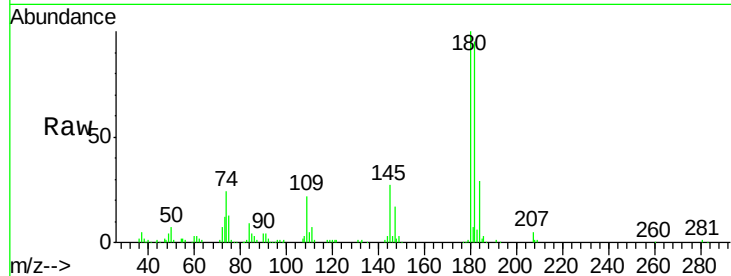
#93
 1,2,4-Trichlorobenzene
 Concen: 19.27 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS04

Tot Ion	Ratio	Resp	Lower	Upper
180	100	137412		
182	94.1	47.3	141.9	
145	27.1	14.4	43.0	

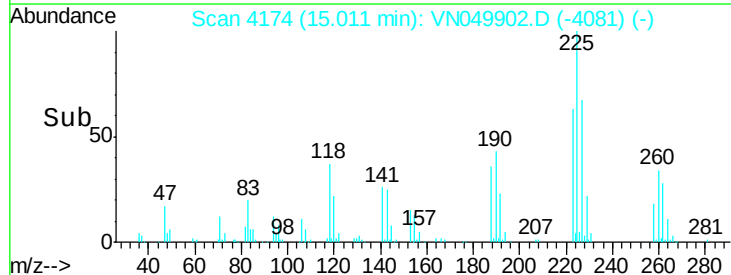
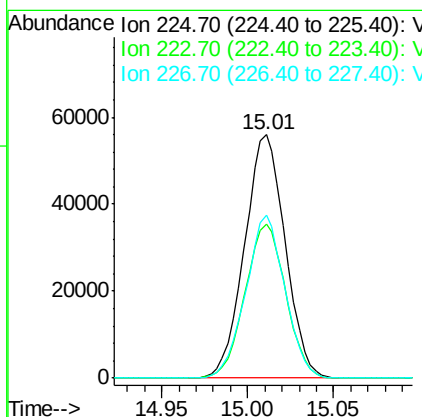
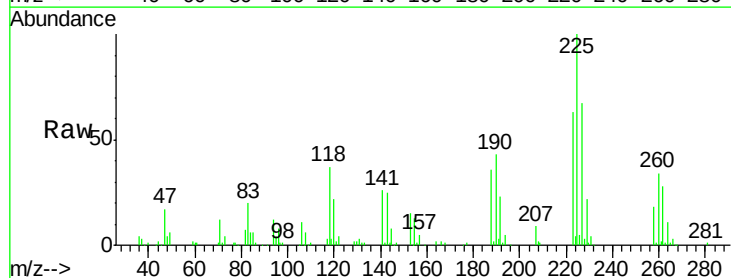
Manual Integrations
 APPROVED

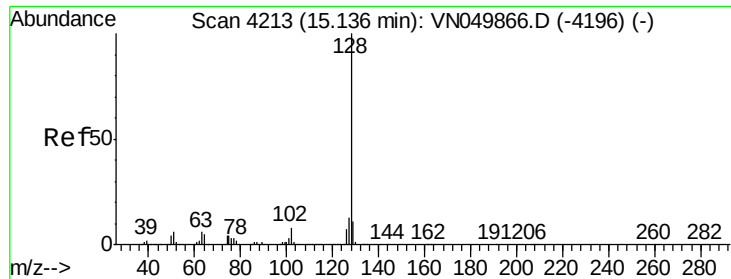
MMDadoda
 7/19/2018 4:29:01 PM



#94
 Hexachlorobutadiene
 Concen: 19.06 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049902.D
 Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	91740		
223	63.2	30.9	92.7	
227	64.5	31.8	95.4	





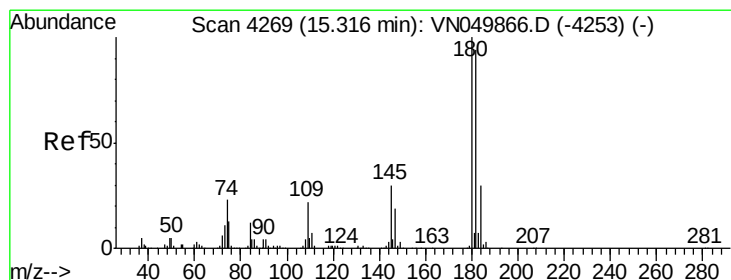
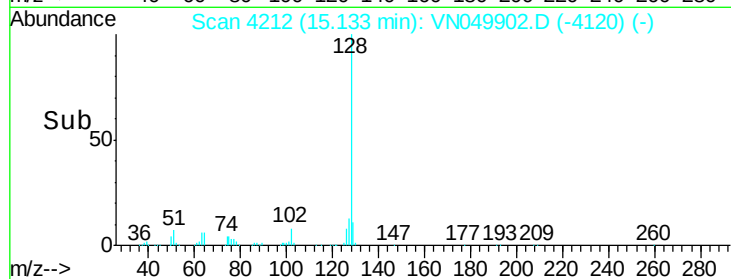
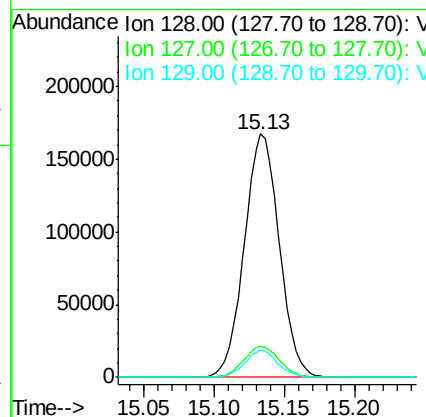
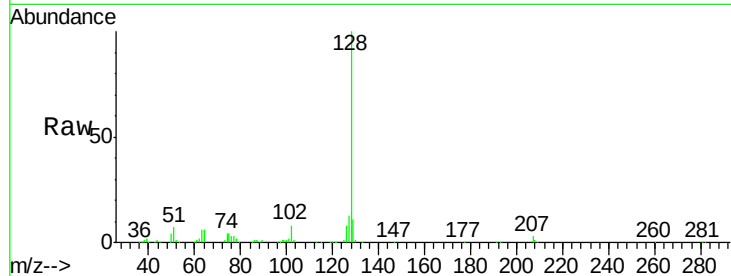
#95
Naphthalene
Concen: 18.18 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Instrument :
MSVOA_N
ClientSampleId :
VN0718WBS04

Tot Ion	Ratio	Resp	Lower	Upper
128	100	291130		
127	13.1	10.4	15.6	
129	10.6	8.6	13.0	

Manual Integrations
APPROVED

MMDadoda
7/19/2018 4:29:01 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.79 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. -0.00 min
Lab File: VN049902.D
Acq: 19 Jul 2018 4:53

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	139449		
182	97.1	47.4	142.2	
145	30.7	15.2	45.6	

