

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071718\
 Data File : VN049851.D
 Acq On : 17 Jul 2018 17:26
 Operator : MD\SY
 Sample : VN0717WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0717WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/18/2018 11:59:16 AM

Quant Time: Jul 18 03:59:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 17 13:20:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	620934	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	923733	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	837863	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	436160	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	439062	52.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.58%	
35) Dibromofluoromethane	7.59	113	385712	52.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.28%	
50) Toluene-d8	10.09	98	1420032	52.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.58%	
62) 4-Bromofluorobenzene	12.40	95	478414	53.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.20%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.85	85	118415	21.26	ug/l	98
3) Chloromethane	2.06	50	156923	21.15	ug/l	99
4) Vinyl Chloride	2.18	62	171820	19.34	ug/l	99
5) Bromomethane	2.56	94	112076	23.37	ug/l	98
6) Chloroethane	2.70	64	108929	21.04	ug/l	100
7) Trichlorofluoromethane	3.01	101	235377	21.75	ug/l	97
8) Diethyl Ether	3.41	74	87846	20.58	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	142960	22.08	ug/l	99
10) Methyl Iodide	3.95	142	185894	20.73	ug/l	99
11) Tert butyl alcohol	4.82	59	75941	114.98	ug/l #	86
12) 1,1-Dichloroethene	3.73	96	131307	20.27	ug/l	97
13) Acrolein	3.61	56	56948	113.28	ug/l	97
14) Allyl chloride	4.32	41	214535	20.86	ug/l	99
15) Acrylonitrile	5.00	53	292986	105.45	ug/l	99
16) Acetone	3.82	43	232021	119.02	ug/l	99
17) Carbon Disulfide	4.04	76	375353	21.07	ug/l	98
18) Methyl Acetate	4.33	43	160183	22.83	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	403203	22.29	ug/l	100
20) Methylene Chloride	4.55	84	153414	21.57	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	140717	20.55	ug/l	97
22) Diisopropyl ether	5.96	45	454276	22.10	ug/l	100
23) Vinyl Acetate	5.90	43	1657498	109.62	ug/l	99
24) 1,1-Dichloroethane	5.85	63	267528	20.30	ug/l	99
25) 2-Butanone	6.85	43	359465	104.99	ug/l	100
26) 2,2-Dichloropropane	6.83	77	213505	21.28	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	161787	21.08	ug/l	98
28) Bromochloromethane	7.20	49	133341	21.80	ug/l	97
29) Tetrahydrofuran	7.22	42	234036	107.51	ug/l	99
30) Chloroform	7.37	83	276801	20.35	ug/l	99
31) Cyclohexane	7.65	56	227950	21.67	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	238259	20.62	ug/l	99
36) 1,1-Dichloropropene	7.79	75	201895	20.66	ug/l	99
37) Ethyl Acetate	6.94	43	163483	22.43	ug/l	98
38) Carbon Tetrachloride	7.78	117	207853	20.19	ug/l	99

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

39) Methylcyclohexane	9.08	83	206507	20.52	ug/l	98
40) Benzene	8.04	78	611512	20.64	ug/l	100
41) Methacrylonitrile	7.18	41	75258	20.11	ug/l #	91
42) 1,2-Dichloroethane	8.13	62	204180	20.27	ug/l	100
43) Isopropyl Acetate	8.17	43	270101	21.78	ug/l	97
44) Trichloroethene	8.84	130	160322	20.57	ug/l	96
45) 1,2-Dichloropropane	9.12	63	162976	20.65	ug/l	100
46) Dibromomethane	9.21	93	103740	20.60	ug/l	98
47) Bromodichloromethane	9.41	83	209305	20.45	ug/l	97
48) Methyl methacrylate	9.20	41	132600	21.56	ug/l	99
49) 1,4-Dioxane	9.20	88	40348	432.81	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	795269	109.02	ug/l	100
52) Toluene	10.16	92	380675	21.44	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	213697	21.39	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	241336	21.52	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	149985	20.59	ug/l	99
56) Ethyl methacrylate	10.43	69	194088	21.99	ug/l	98
57) 1,3-Dichloropropane	10.71	76	244958	20.76	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	478673	114.91	ug/l	100
59) 2-Hexanone	10.75	43	549462	109.86	ug/l	100
60) Dibromochloromethane	10.90	129	166894	20.57	ug/l	97
61) 1,2-Dibromoethane	11.01	107	148748	20.83	ug/l	99
64) Tetrachloroethene	10.63	164	144457	20.27	ug/l	98
65) Chlorobenzene	11.44	112	413097	20.79	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	156990	20.58	ug/l	99
67) Ethyl Benzene	11.51	91	684749	21.44	ug/l	99
68) m/p-Xylenes	11.62	106	538923	44.48	ug/l	99
69) o-Xylene	11.95	106	256033	22.16	ug/l	99
70) Styrene	11.97	104	420144	22.44	ug/l	99
71) Bromoform	12.13	173	119365	20.32	ug/l #	97
73) Isopropylbenzene	12.25	105	690495	21.86	ug/l	100
74) N-amyl acetate	12.07	43	225325	21.59	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	202773	20.02	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	177013m	20.74	ug/l	
77) Bromobenzene	12.53	156	182454	21.07	ug/l	97
78) n-propylbenzene	12.59	91	781085	21.98	ug/l	99
79) 2-Chlorotoluene	12.68	91	477486	21.76	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	573017	23.15	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	54361	20.85	ug/l	95
82) 4-Chlorotoluene	12.78	91	474679	21.90	ug/l	99
83) tert-Butylbenzene	12.99	119	484515	22.33	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	577472	22.88	ug/l	100
85) sec-Butylbenzene	13.17	105	653931	22.41	ug/l	100
86) p-Isopropyltoluene	13.29	119	559253	22.66	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	318225	21.38	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	309499	21.17	ug/l	99
89) n-Butylbenzene	13.62	91	444795	21.98	ug/l	99
90) Hexachloroethane	13.88	117	106063	21.10	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	316985	20.95	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	34253	22.66	ug/l	98

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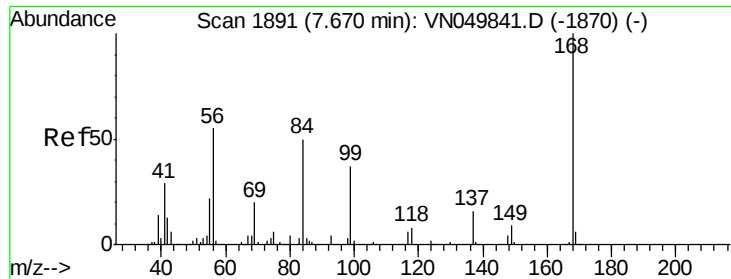
Manual Integrations
APPROVED

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	158325	23.50	ug/l	98
94) Hexachlorobutadiene	15.01	225	96963	20.51	ug/l	99
95) Naphthalene	15.14	128	400505	23.10	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	167804	23.55	ug/l	100

(#) = 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: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion:168 Resp: 620934

Ion Ratio Lower Upper

168 100

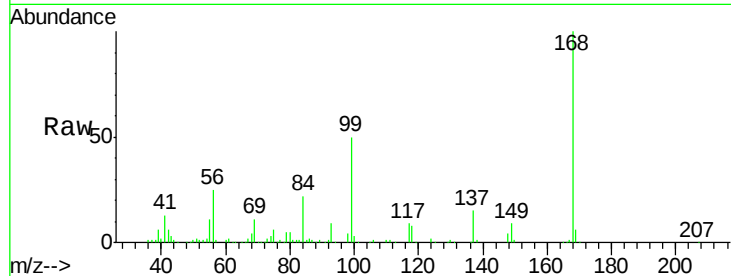
99 49.4 40.6 61.0

Manual Integrations

APPROVED

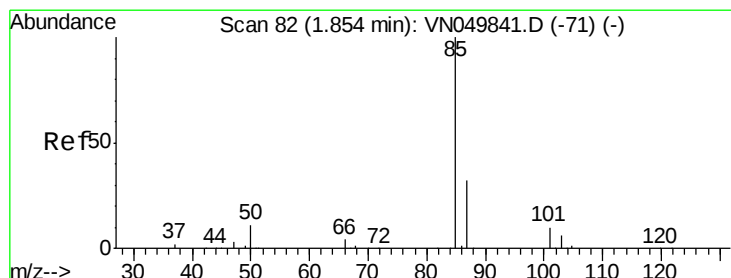
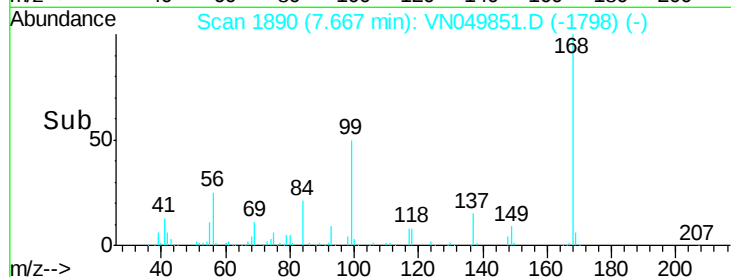
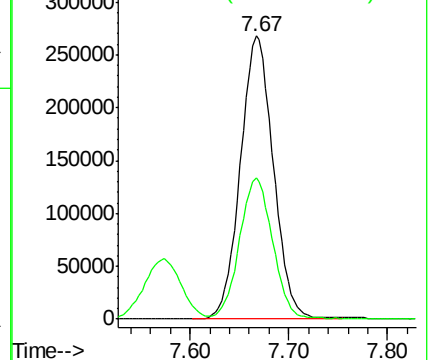
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 21.26 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049851.D

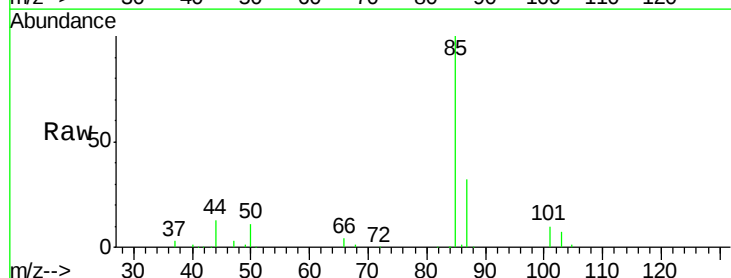
Acq: 17 Jul 2018 17:26

Tgt Ion: 85 Resp: 118415

Ion Ratio Lower Upper

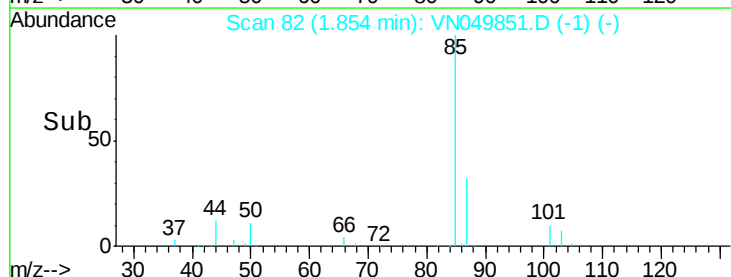
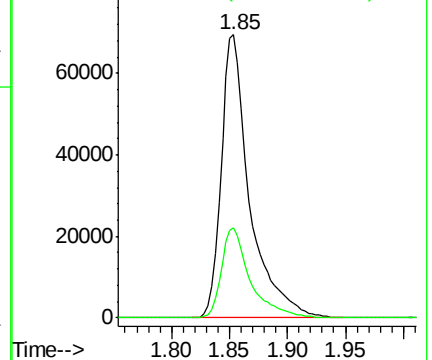
85 100

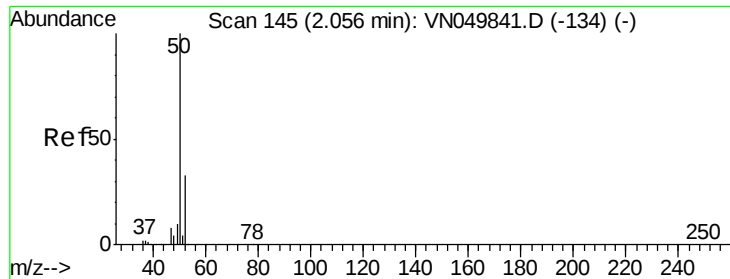
87 31.8 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 21.15 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion: 50 Resp: 156923

Ion Ratio Lower Upper

50 100

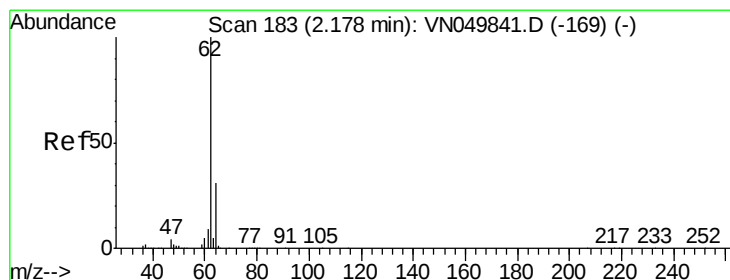
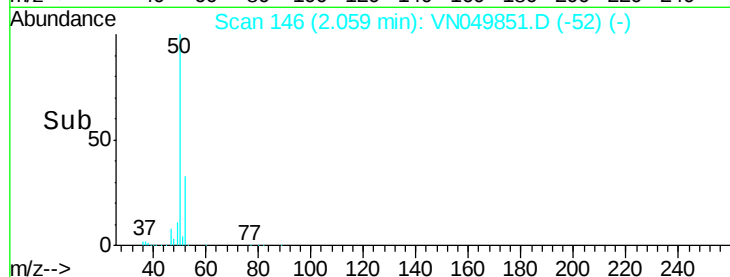
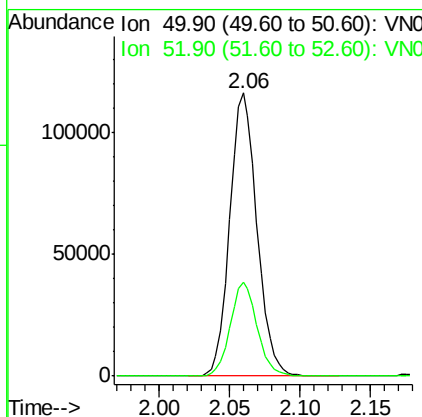
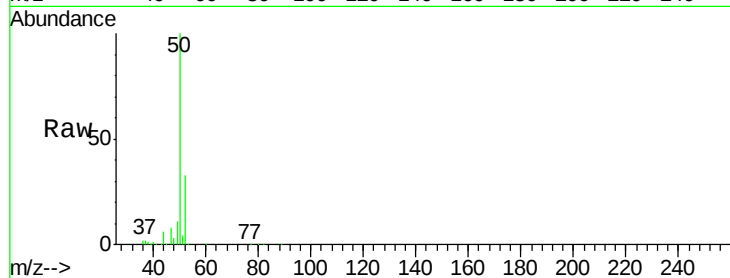
52 33.3 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.34 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN049851.D

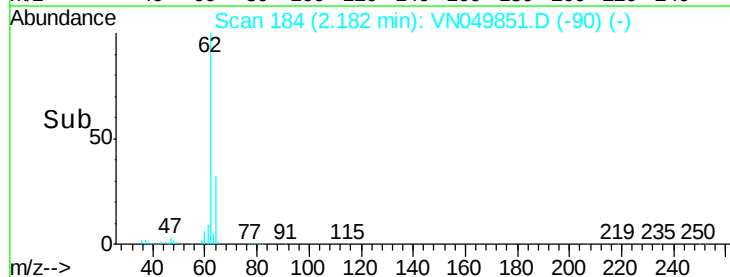
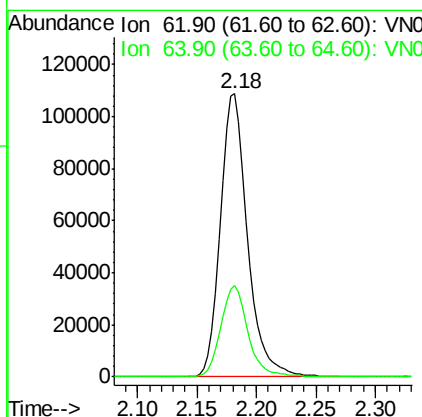
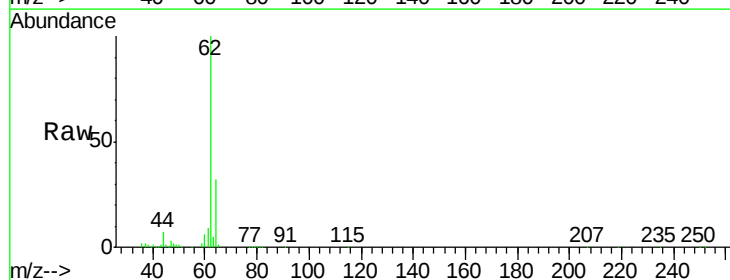
Acq: 17 Jul 2018 17:26

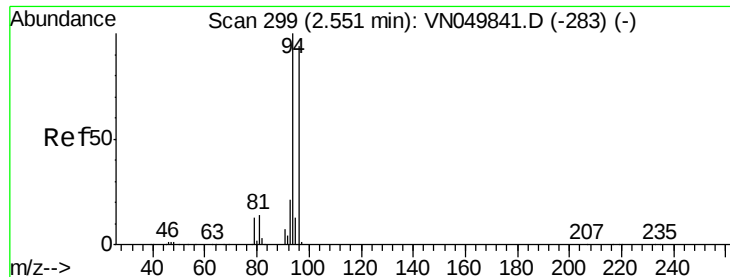
Tgt Ion: 62 Resp: 171820

Ion Ratio Lower Upper

62 100

64 32.3 25.4 38.0





#5

Bromomethane

Concen: 23.37 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion: 94 Resp: 112076

Ion Ratio Lower Upper

94 100

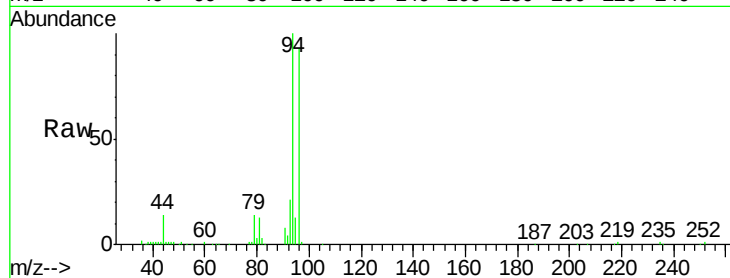
96 92.5 75.7 113.5

Manual Integrations

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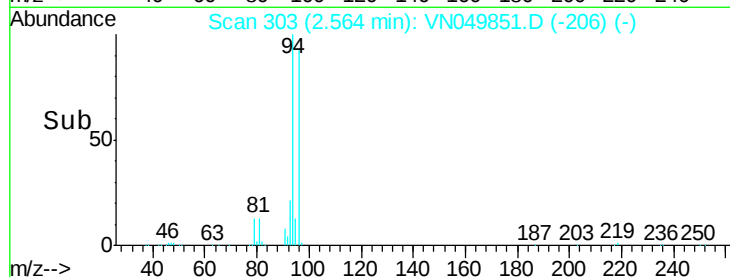


Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

Time-->



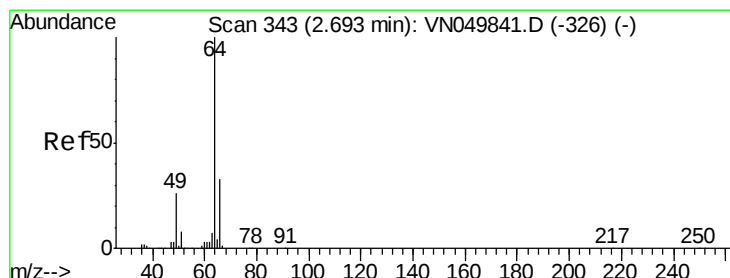
Abundance

Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

Time-->



#6

Chloroethane

Concen: 21.04 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VN049851.D

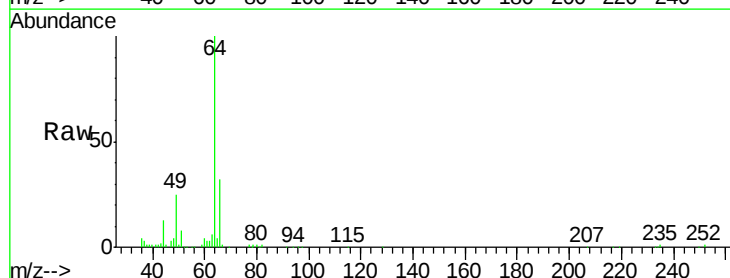
Acq: 17 Jul 2018 17:26

Tgt Ion: 64 Resp: 108929

Ion Ratio Lower Upper

64 100

66 32.0 25.6 38.4

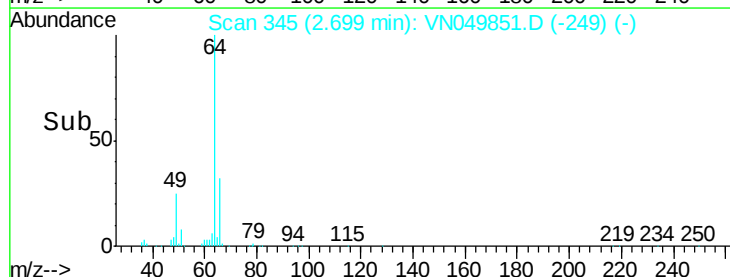


Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.70

Time-->



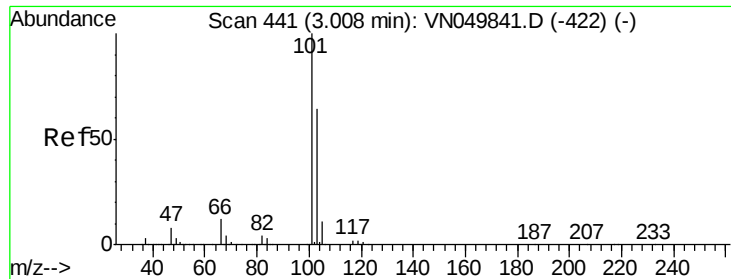
Abundance

Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.70

Time-->



#7

Trichlorofluoromethane

Concen: 21.75 ug/l

RT: 3.01 min Scan# 442

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

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VN0717WBSD01

Tot Ion:101 Resp: 235377

Ion Ratio Lower Upper

101 100

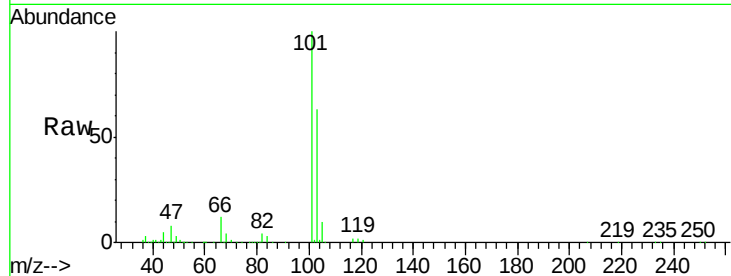
103 63.3 52.8 79.2

Manual Integrations

APPROVED

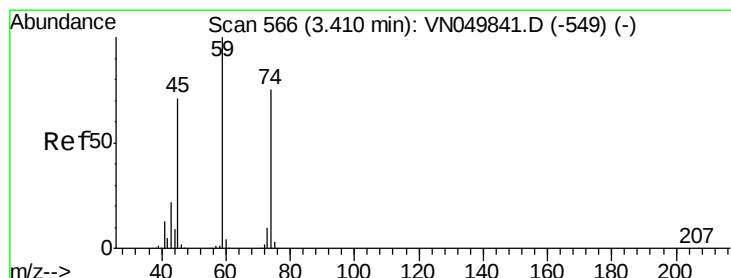
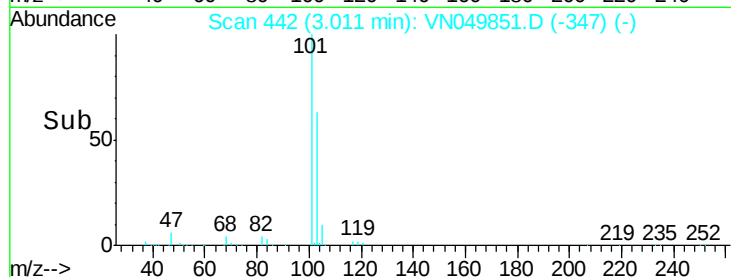
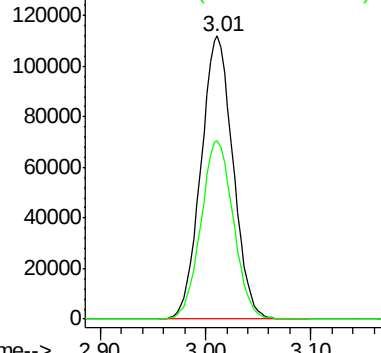
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 20.58 ug/l

RT: 3.41 min Scan# 566

Delta R.T. 0.00 min

Lab File: VN049851.D

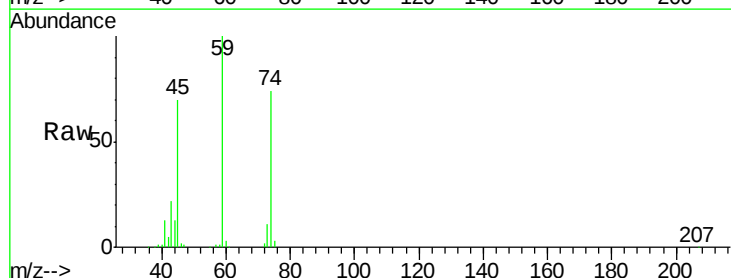
Acq: 17 Jul 2018 17:26

Tgt Ion: 74 Resp: 87846

Ion Ratio Lower Upper

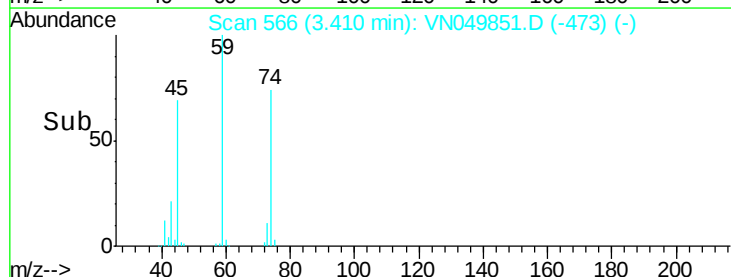
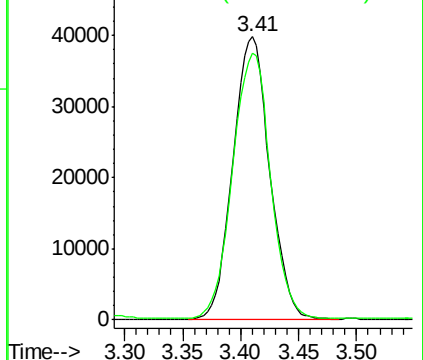
74 100

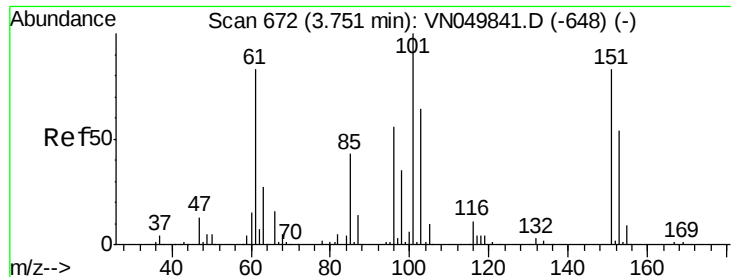
45 95.8 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.08 ug/l

RT: 3.75 min Scan# 672

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

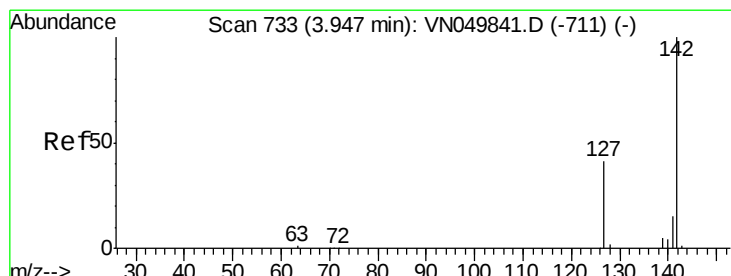
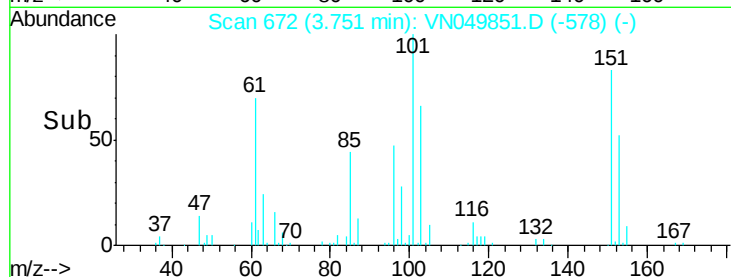
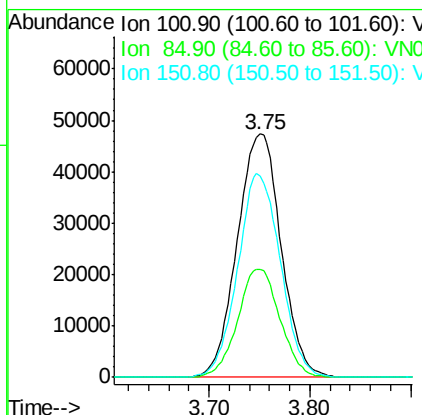
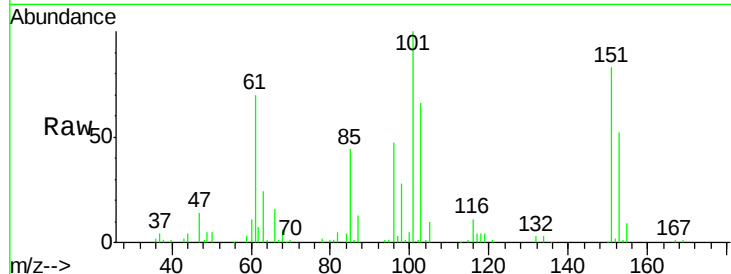
ClientSampleId :

VN0717WBSD01

Tot Ion:	101	Resp:	142960
Ion Ratio	Lower	Upper	
101	100		
85	42.8	34.4	51.6
151	81.6	66.2	99.4

Manual Integrations
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MMDadoda
7/18/2018 11:59:16 AM



#10

Methyl Iodide

Concen: 20.73 ug/l

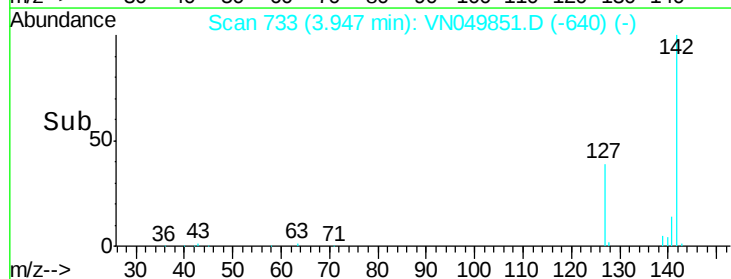
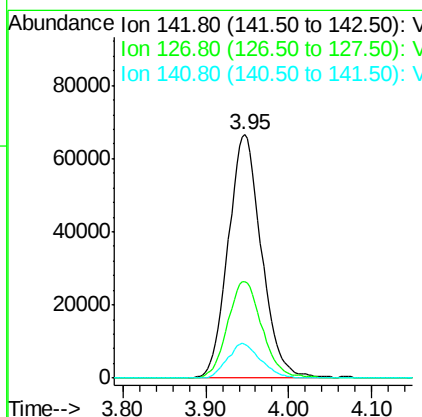
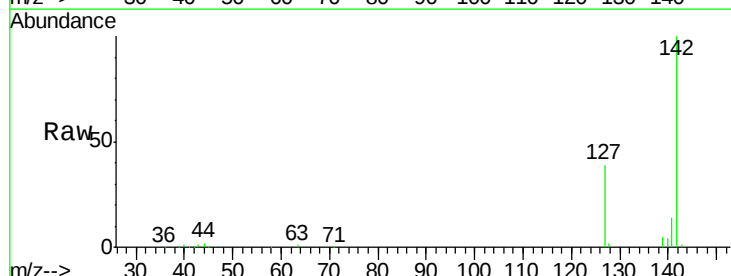
RT: 3.95 min Scan# 733

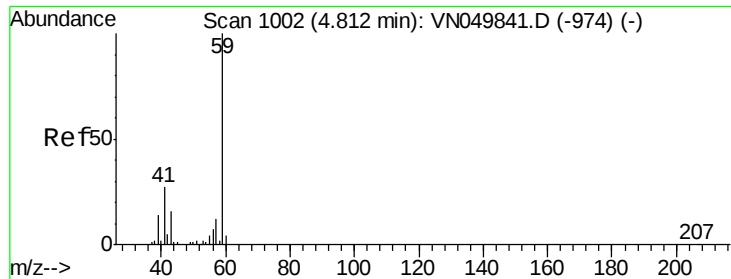
Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Tgt Ion:	142	Resp:	185894
Ion Ratio	Lower	Upper	
142	100		
127	41.1	32.5	48.7
141	14.2	11.1	16.7





#11

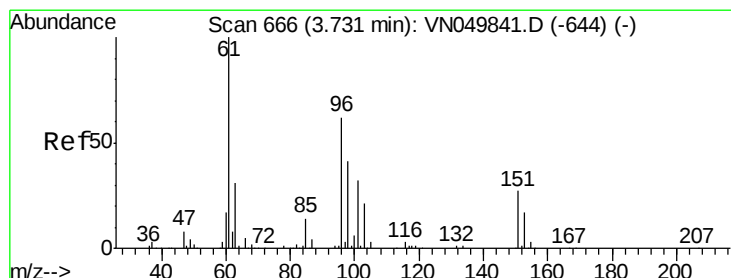
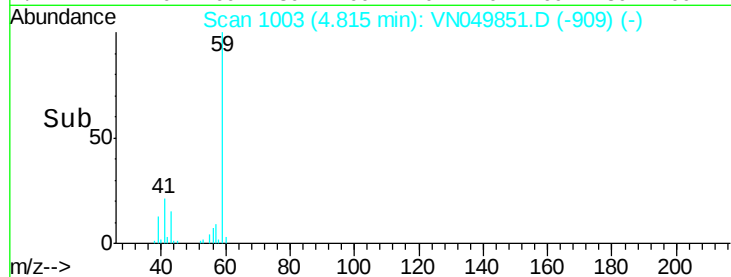
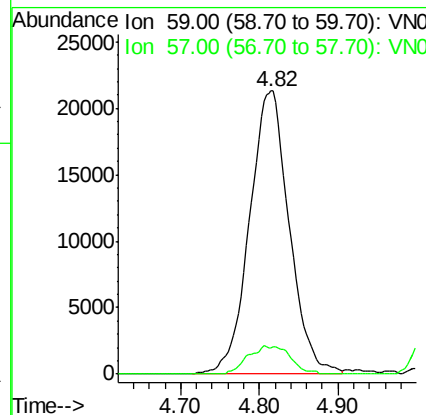
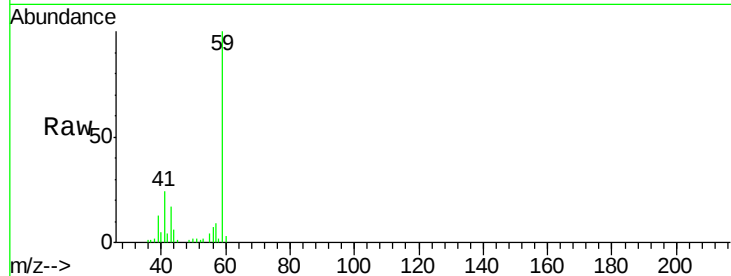
Tert butyl alcohol
Concen: 114.98 ug/l
RT: 4.82 min Scan# 1003
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion	59	Resp	75941
Ion Ratio	100	Lower	Upper
57	5.3	8.5	12.7#

Manual Integrations
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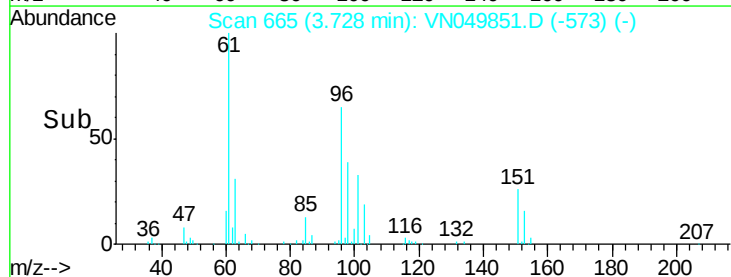
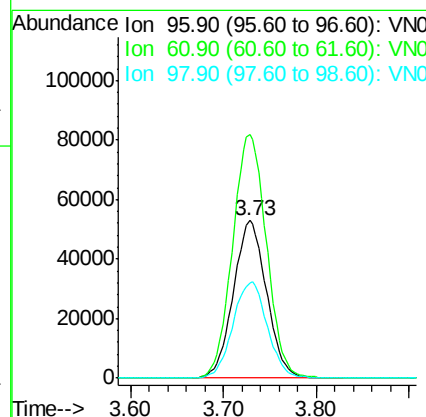
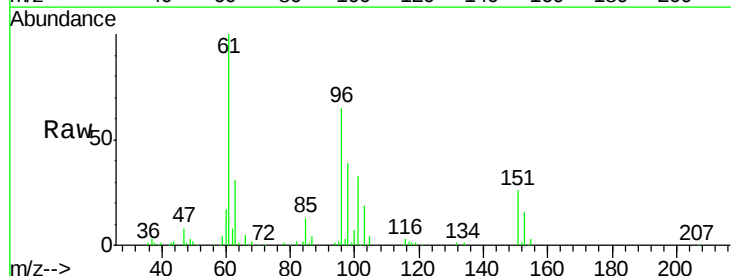
MMDadoda
7/18/2018 11:59:16 AM

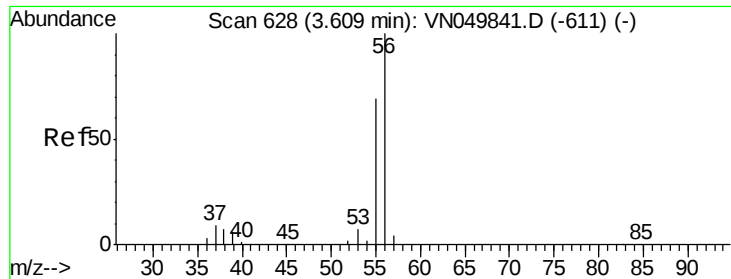


#12

1,1-Dichloroethene
Concen: 20.27 ug/l
RT: 3.73 min Scan# 665
Delta R.T. -0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion	96	Resp	131307
Ion Ratio	100	Lower	Upper
61	154.7	126.5	189.7
98	60.5	51.0	76.6





#13

Acrolein

Concen: 113.28 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion: 56 Resp: 56948

Ion Ratio Lower Upper

56 100

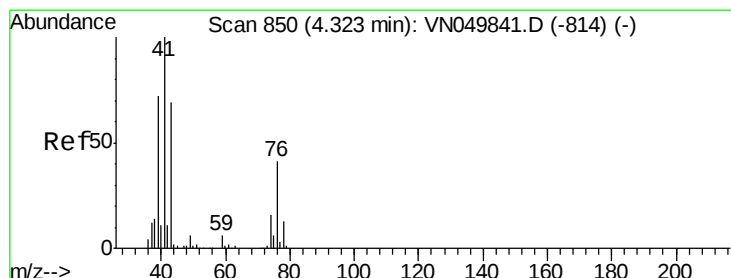
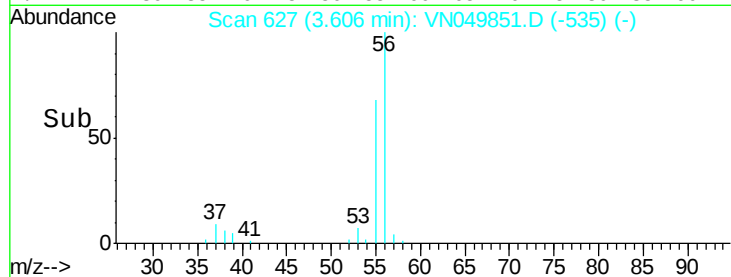
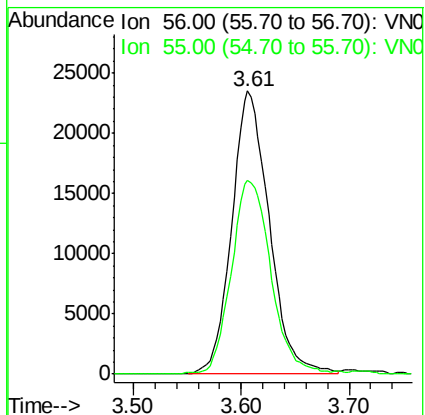
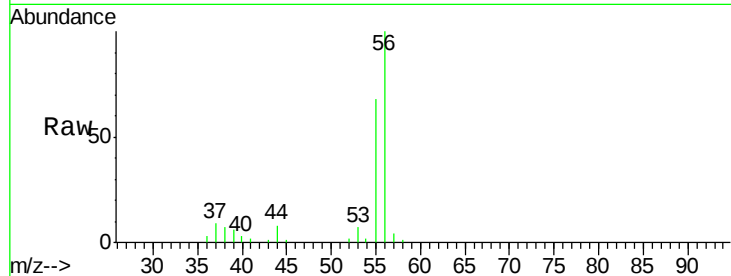
55 72.1 55.8 83.8

Manual Integrations

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MMDadoda

7/18/2018 11:59:16 AM



#14

Allyl chloride

Concen: 20.86 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

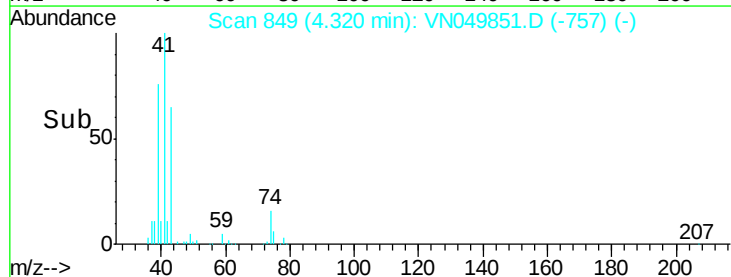
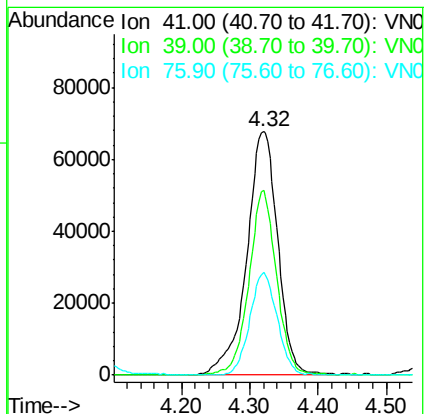
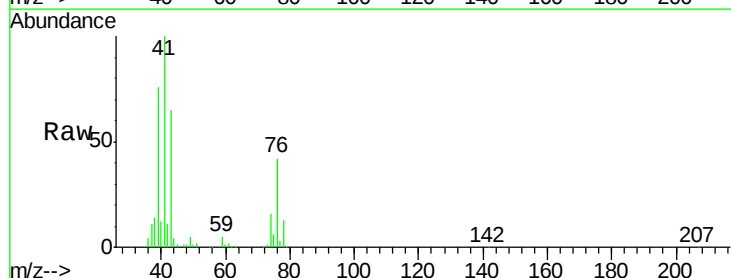
Tgt Ion: 41 Resp: 214535

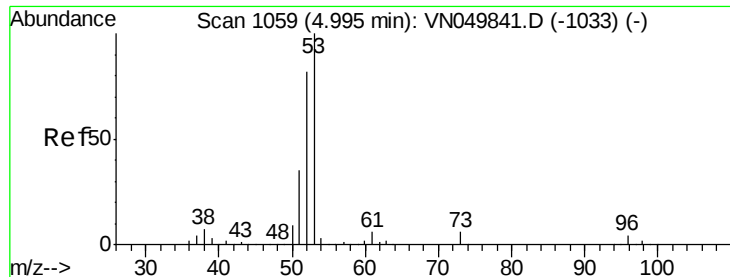
Ion Ratio Lower Upper

41 100

39 67.4 53.2 79.8

76 36.9 29.0 43.6





#15

Acrylonitrile

Concen: 105.45 ug/l

RT: 5.00 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

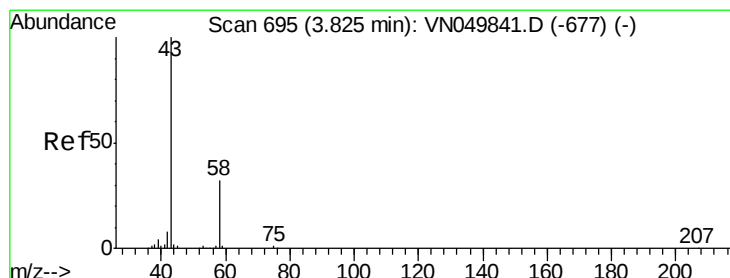
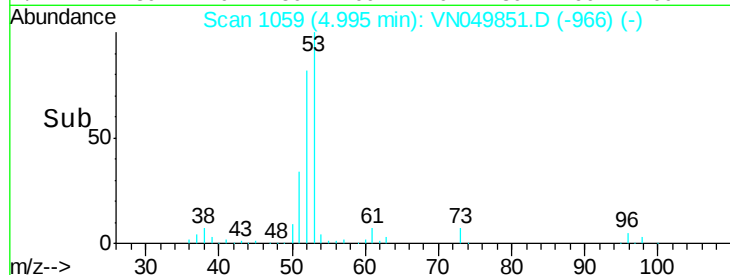
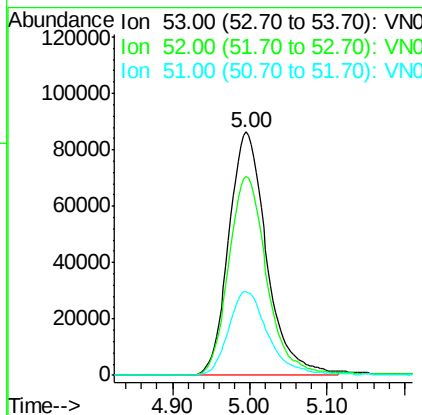
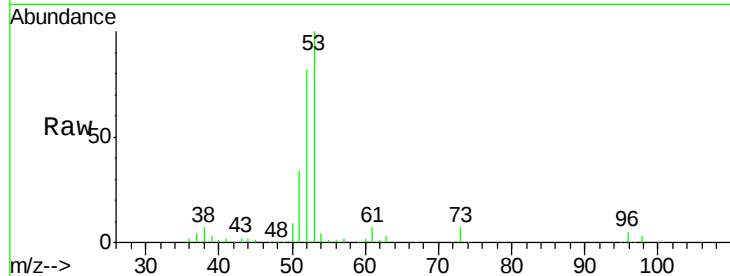
ClientSampleId :

VN0717WBSD01

Tot Ion:	53	Resp:	292986
Ion	Ratio	Lower	Upper
53	100		
52	81.9	64.8	97.2
51	36.1	28.9	43.3

Manual Integrations
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#16

Acetone

Concen: 119.02 ug/l

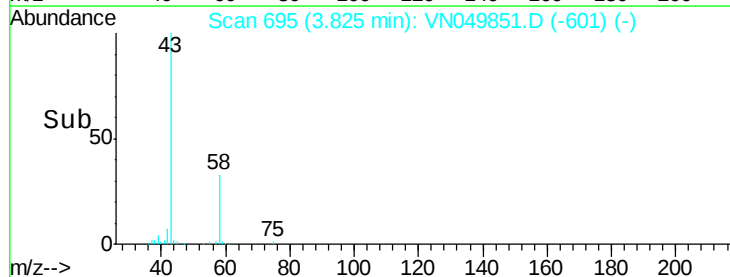
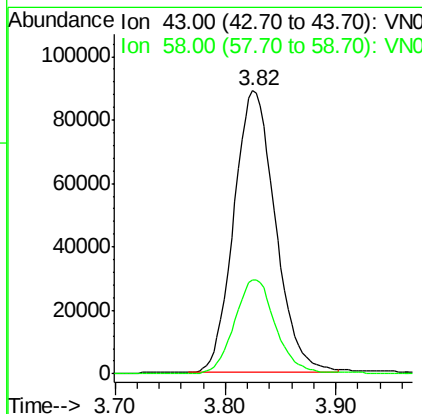
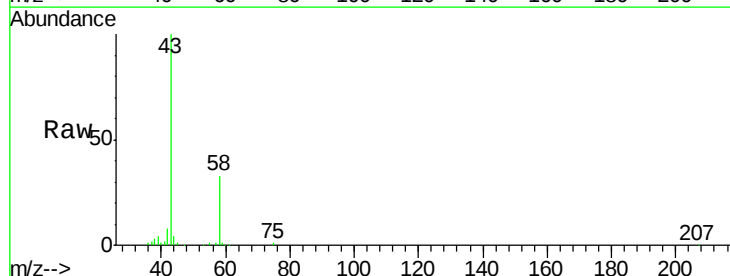
RT: 3.82 min Scan# 695

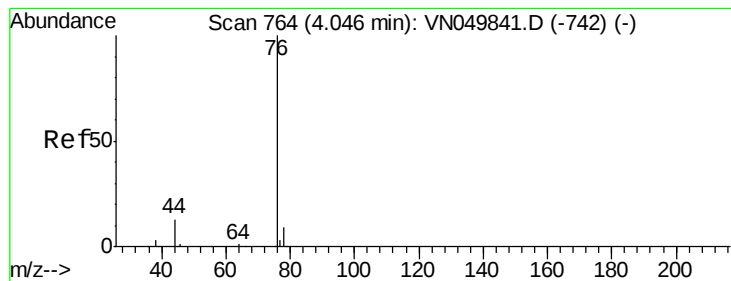
Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Tgt Ion:	43	Resp:	232021
Ion	Ratio	Lower	Upper
43	100		
58	33.2	25.9	38.9





#17

Carbon Disulfide

Concen: 21.07 ug/l

RT: 4.04 min Scan# 763

Delta R.T. -0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion: 76 Resp: 375353

Ion Ratio Lower Upper

76 100

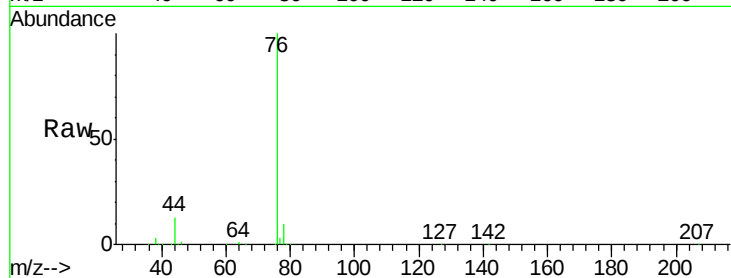
78 9.7 7.1 10.7

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.04

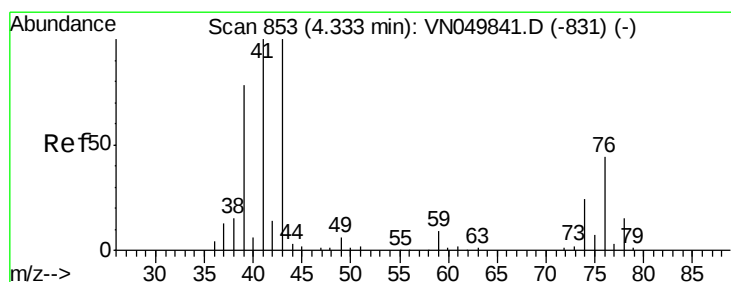
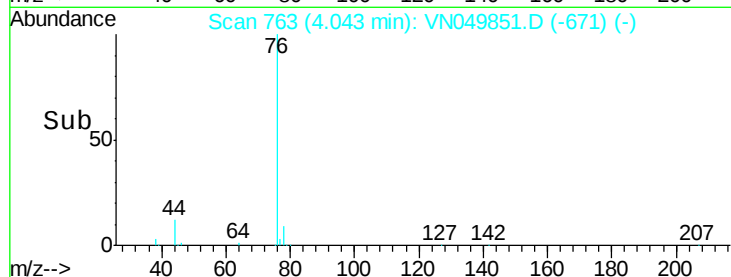
150000

100000

50000

0

Time--> 3.90 4.00 4.10 4.20



#18

Methyl Acetate

Concen: 22.83 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN049851.D

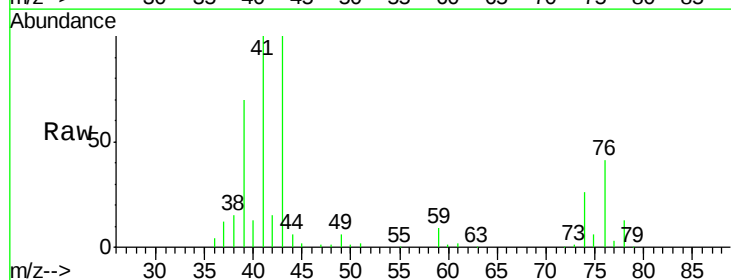
Acq: 17 Jul 2018 17:26

Tgt Ion: 43 Resp: 160183

Ion Ratio Lower Upper

43 100

74 24.8 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

60000

50000

40000

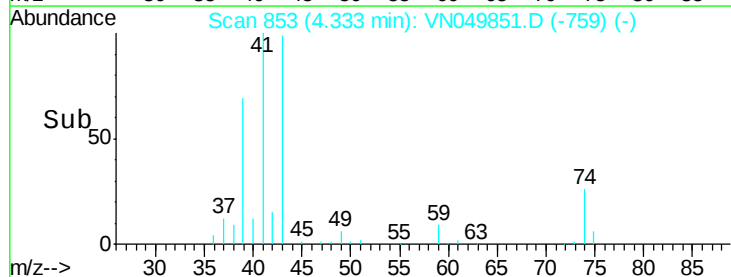
30000

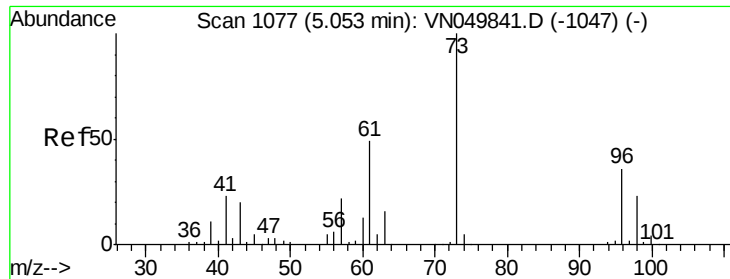
20000

10000

0

Time--> 4.20 4.30 4.40





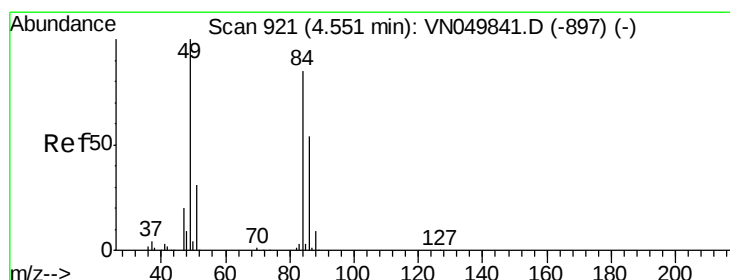
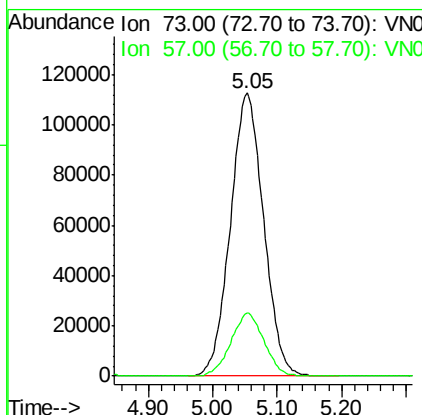
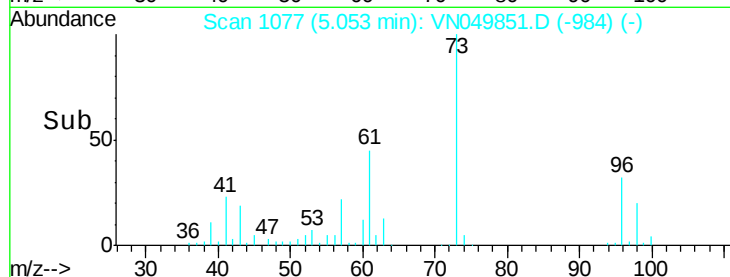
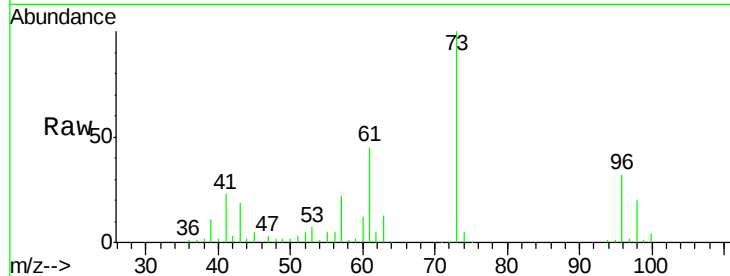
#19
Methvl tert-butvl Ether
Concen: 22.29 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion: 73 Resp: 403203
Ion Ratio Lower Upper
73 100
57 22.4 18.1 27.1

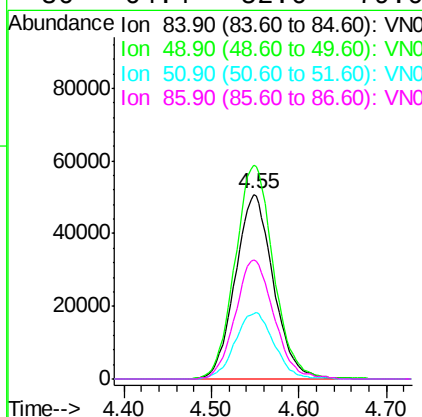
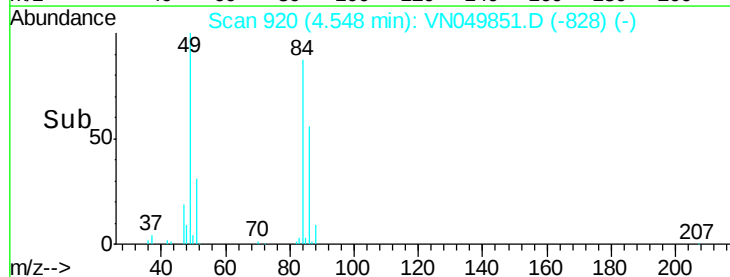
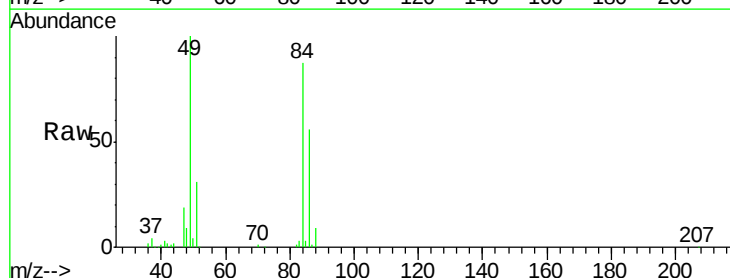
Manual Integrations
APPROVED

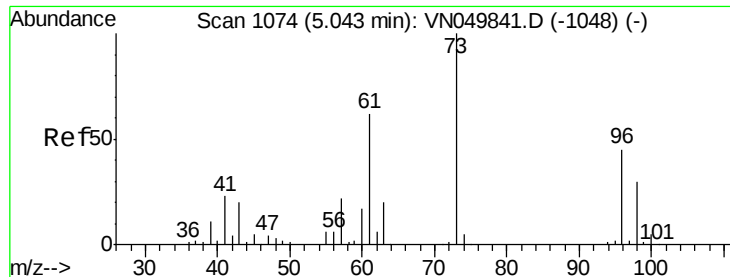
MMDadoda
7/18/2018 11:59:16 AM



#20
Methylene Chloride
Concen: 21.57 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion: 84 Resp: 153414
Ion Ratio Lower Upper
84 100
49 115.5 95.4 143.2
51 35.5 28.4 42.6
86 64.4 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 20.55 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

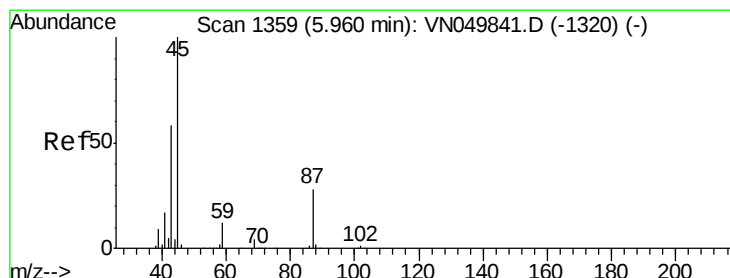
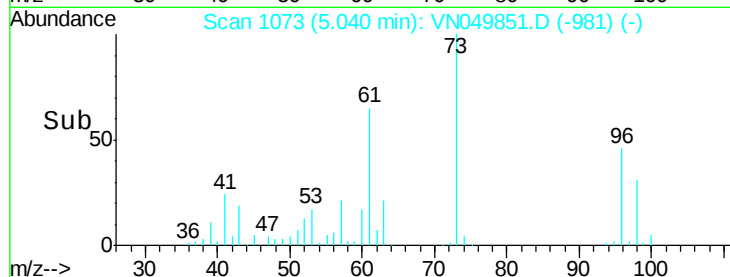
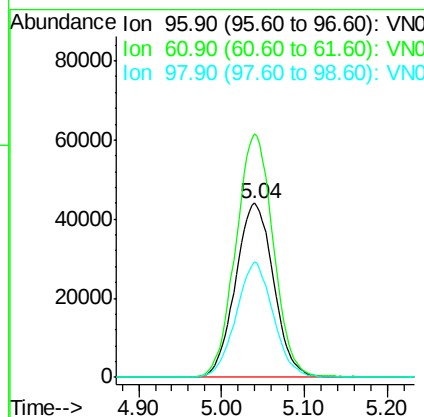
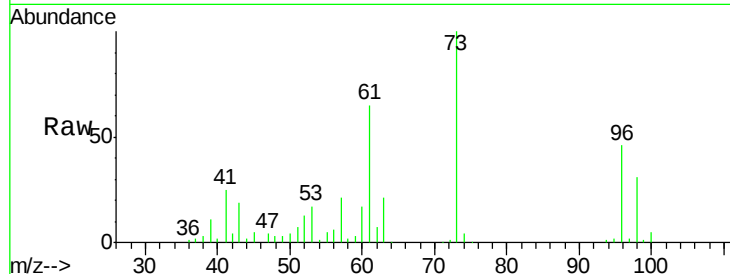
ClientSampleId :

VN0717WBSD01

Tot Ion:	96	Resp:	140717
Ion	Ratio	Lower	Upper
96	100		
61	139.9	109.0	163.6
98	66.5	51.1	76.7

Manual Integrations
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#22

Diisopropyl ether

Concen: 22.10 ug/l

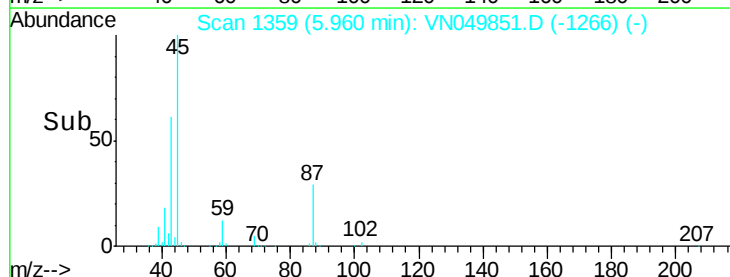
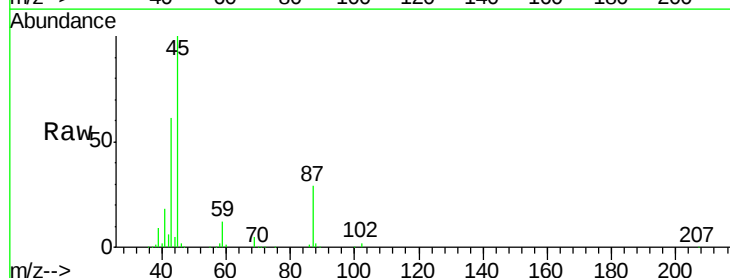
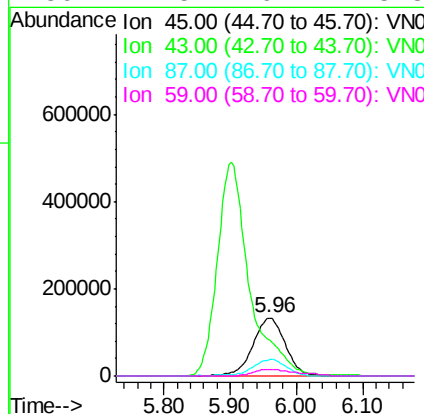
RT: 5.96 min Scan# 1359

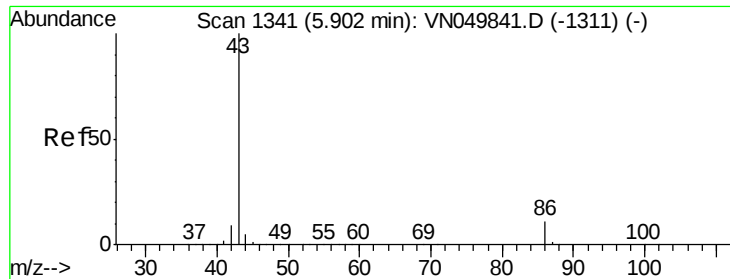
Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Tgt Ion:	45	Resp:	454276
Ion	Ratio	Lower	Upper
45	100		
43	59.8	48.1	72.1
87	28.3	22.6	34.0
59	11.5	9.2	13.8





#23

Vinyl Acetate

Concen: 109.62 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion: 43 Resp: 1657498

Ion Ratio Lower Upper

43 100

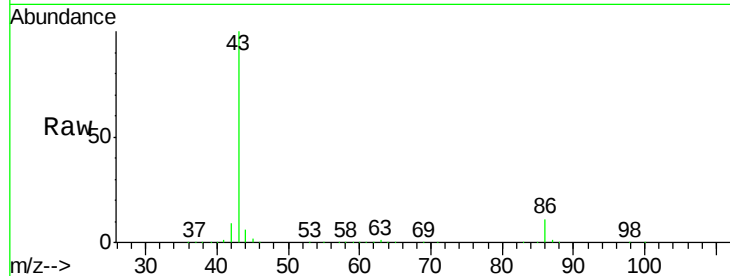
86 10.8 8.4 12.6

Manual Integrations

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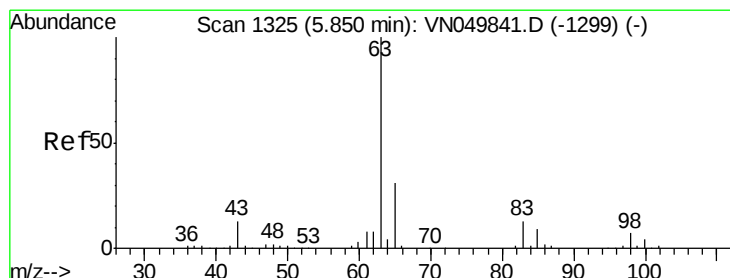
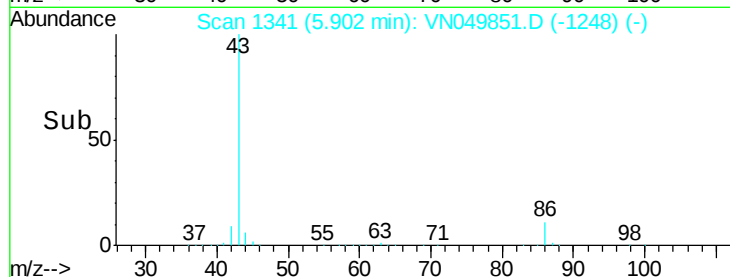
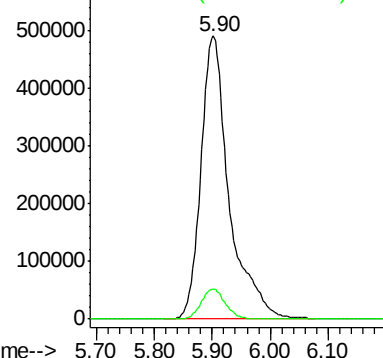
MMDadoda

7/18/2018 11:59:16 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 20.30 ug/l

RT: 5.85 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

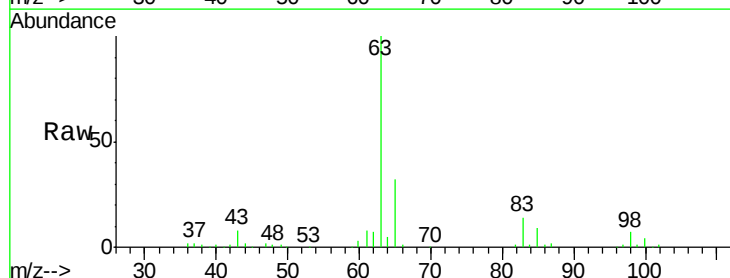
Tgt Ion: 63 Resp: 267528

Ion Ratio Lower Upper

63 100

98 6.7 3.4 10.2

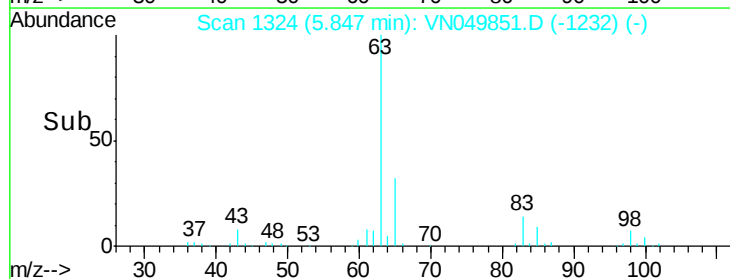
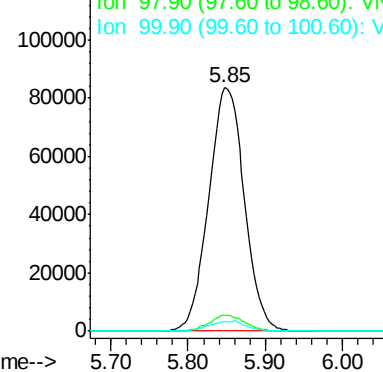
100 3.7 2.2 6.6

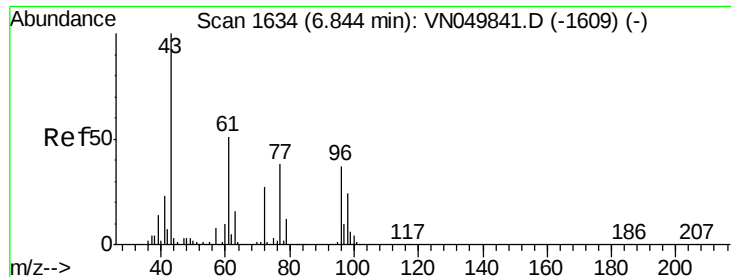


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 104.99 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion: 43 Resp: 359465

Ion Ratio Lower Upper

43 100

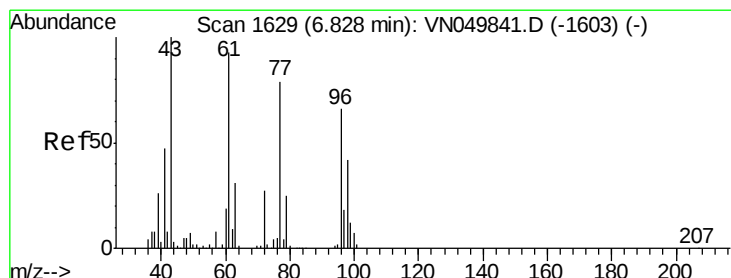
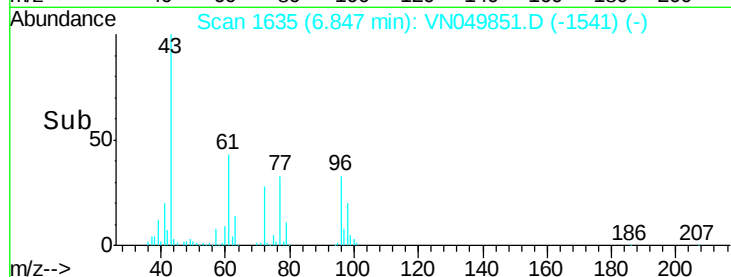
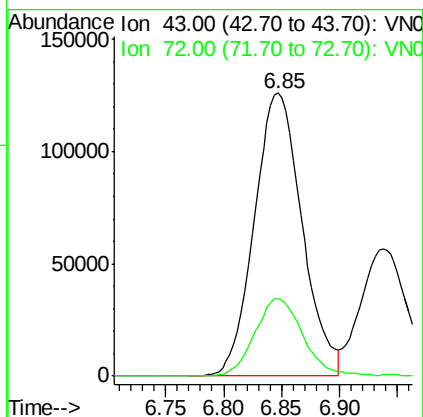
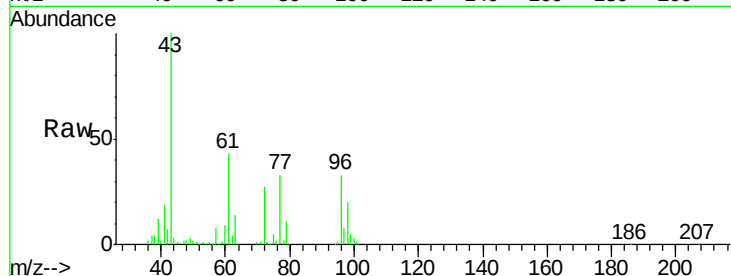
72 27.6 22.1 33.1

Manual Integrations

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MMDadoda

7/18/2018 11:59:16 AM



#26

2,2-Dichloropropane

Concen: 21.28 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN049851.D

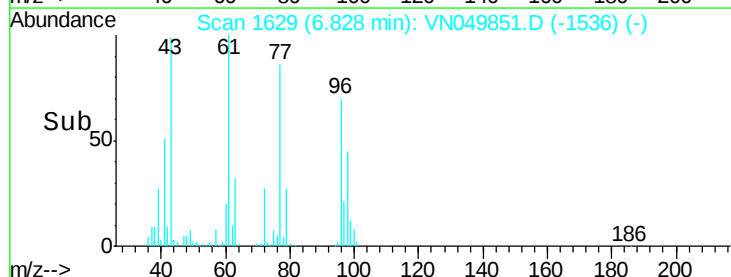
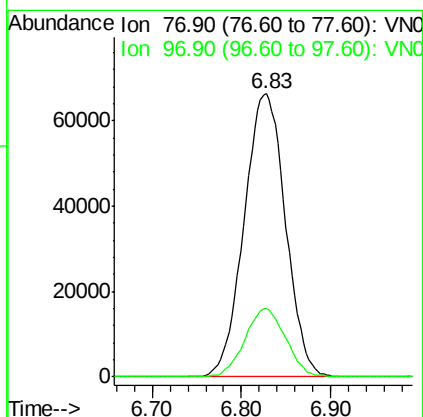
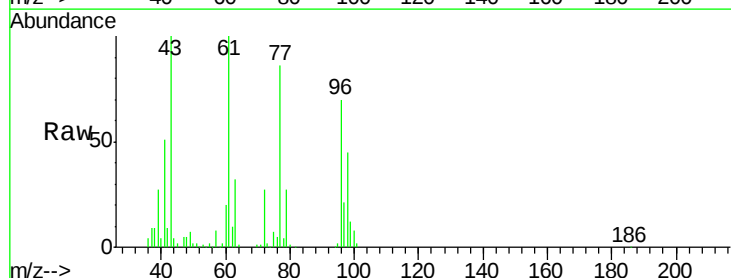
Acq: 17 Jul 2018 17:26

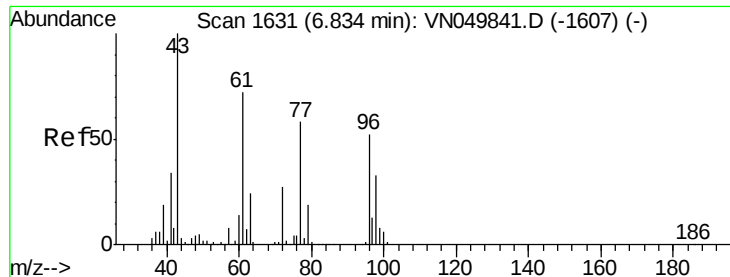
Tgt Ion: 77 Resp: 213505

Ion Ratio Lower Upper

77 100

97 23.8 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 21.08 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

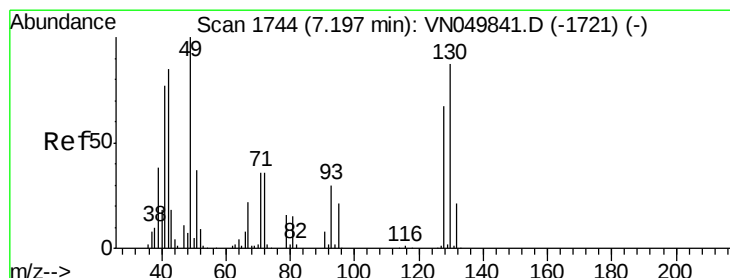
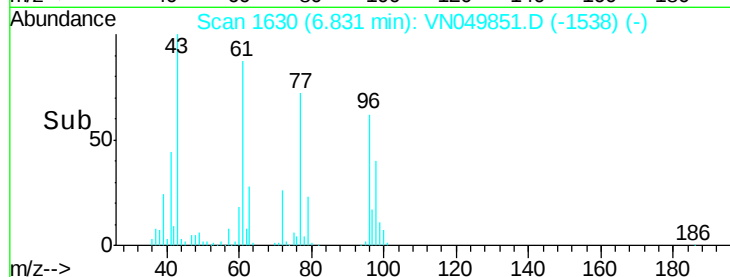
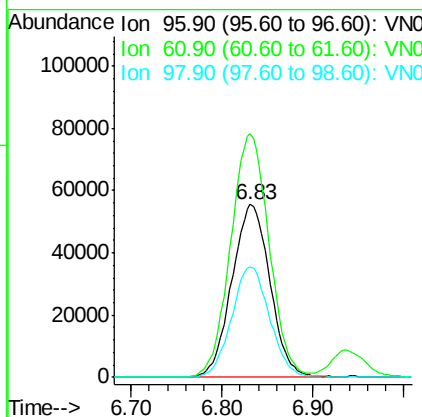
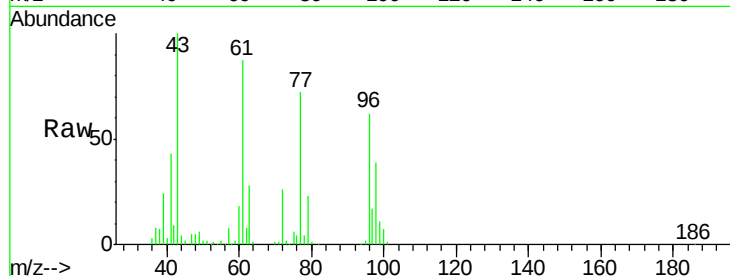
ClientSampled :

VN0717WBSD01

Tot Ion:	96	Resp:	161787
Ion	Ratio	Lower	Upper
96	100		
61	141.7	0.0	289.0
98	64.1	0.0	130.2

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#28

Bromochloromethane

Concen: 21.80 ug/l

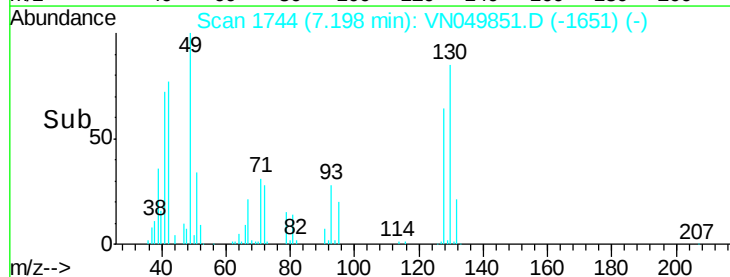
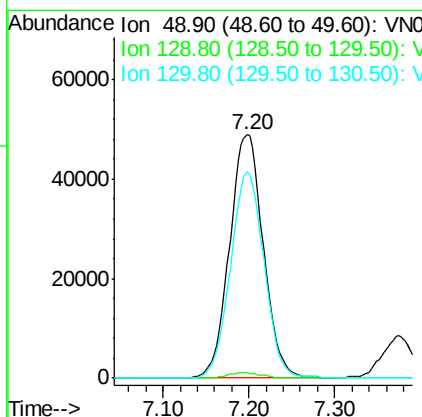
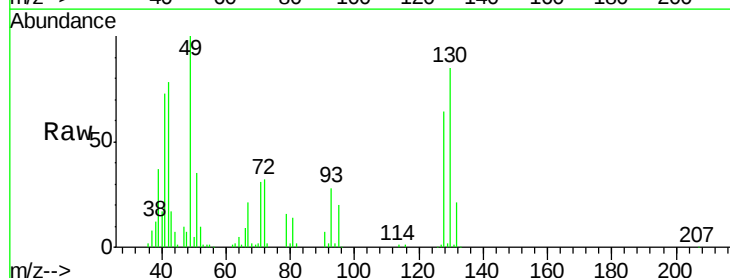
RT: 7.20 min Scan# 1744

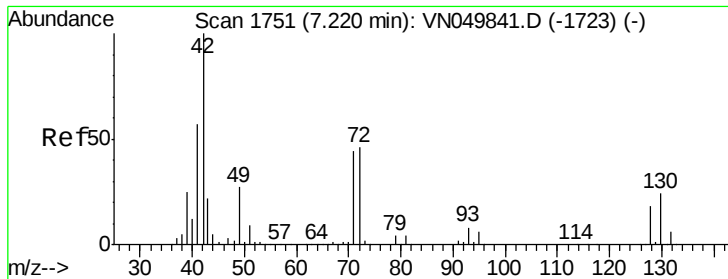
Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Tgt Ion:	49	Resp:	133341
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	84.2	65.5	98.3





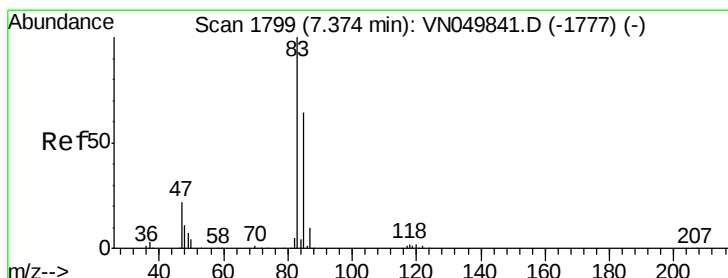
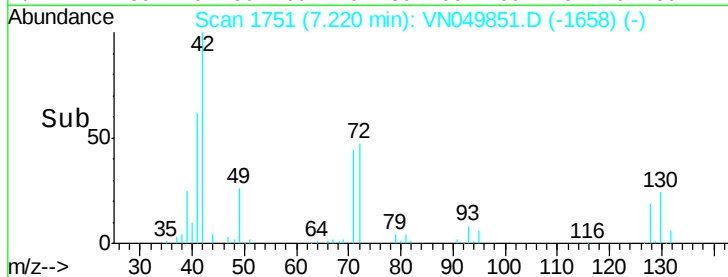
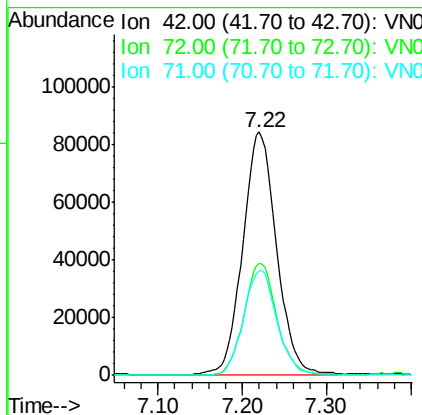
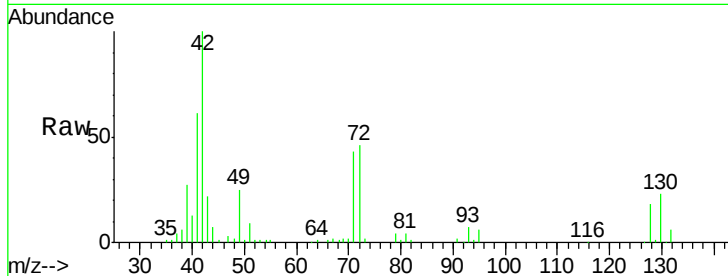
#29
Tetrahydrofuran
Concen: 107.51 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.9	35.6	53.4
71	42.9	34.0	51.0

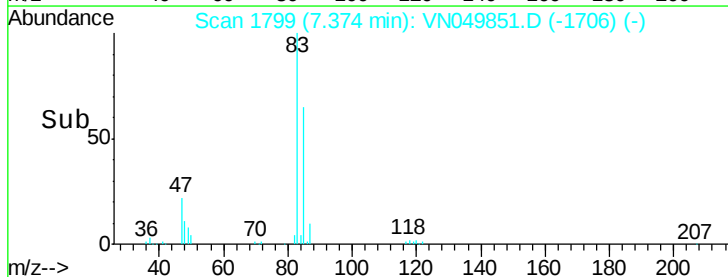
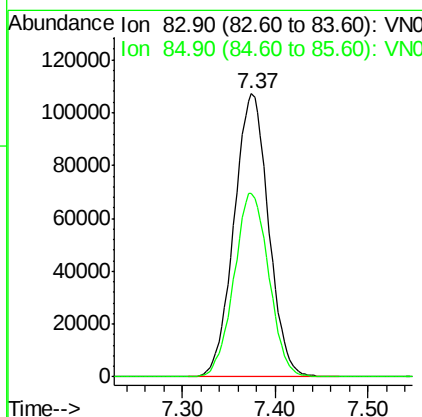
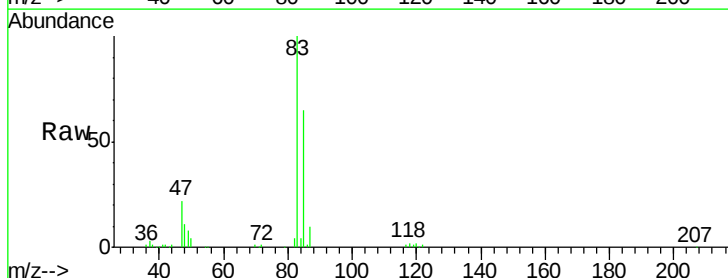
Manual Integrations
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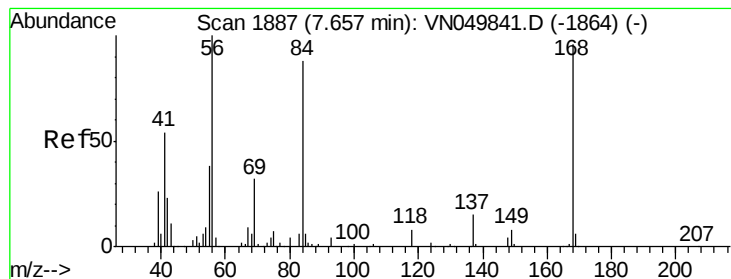
MMDadoda
7/18/2018 11:59:16 AM



#30
Chloroform
Concen: 20.35 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.4	77.2





#31

Cyclohexane

Concen: 21.67 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

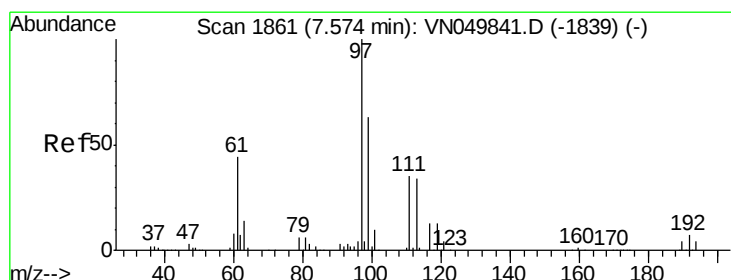
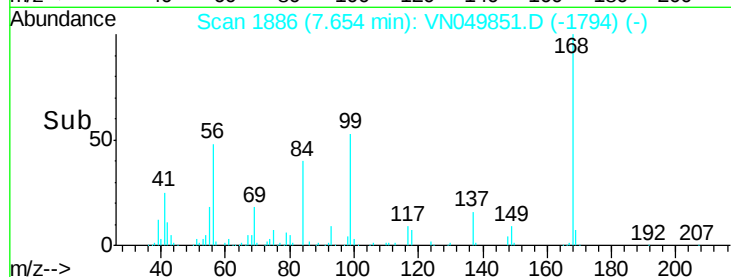
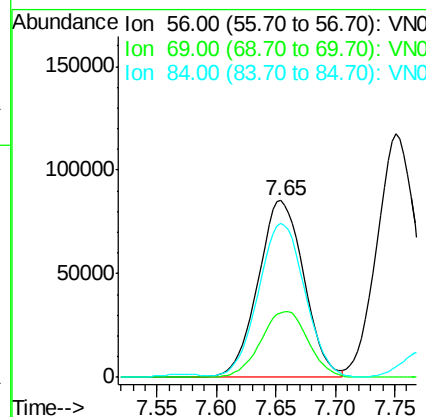
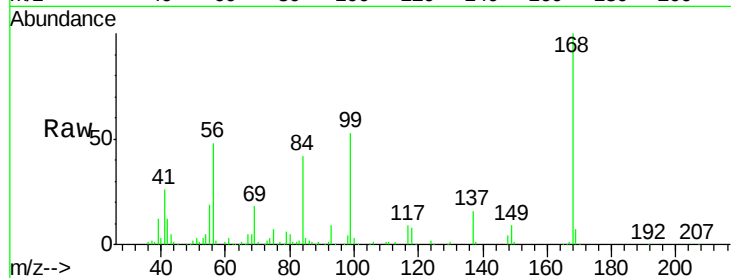
ClientSampleId :

VN0717WBSD01

Tot Ion:	56	Resp:	227950
Ion Ratio	Lower	Upper	
56	100		
69	36.7	26.6	40.0
84	85.3	69.0	103.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 20.62 ug/l

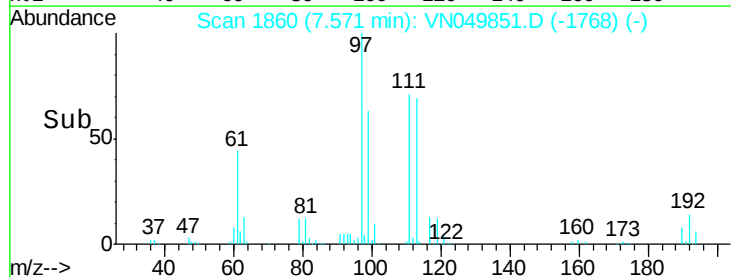
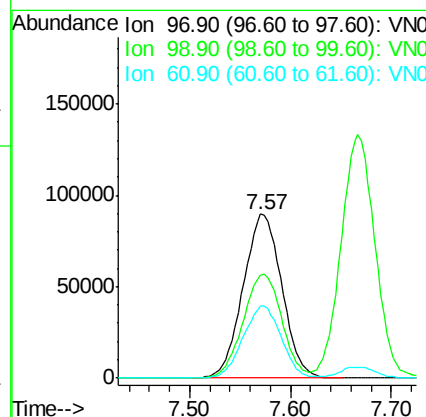
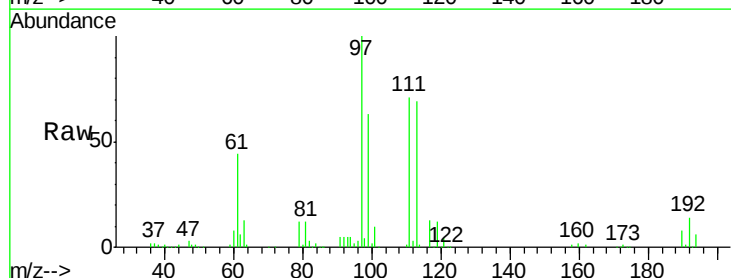
RT: 7.57 min Scan# 1860

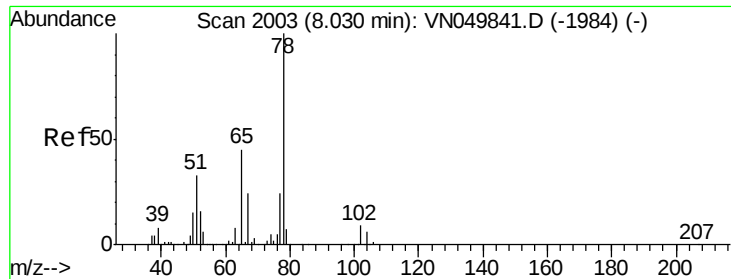
Delta R.T. -0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Tgt Ion:	97	Resp:	238259
Ion Ratio	Lower	Upper	
97	100		
99	63.5	51.0	76.4
61	43.4	35.5	53.3





#33

1,2-Dichloroethane-d4

Concen: 52.79 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion: 65 Resp: 439062

Ion Ratio Lower Upper

65 100

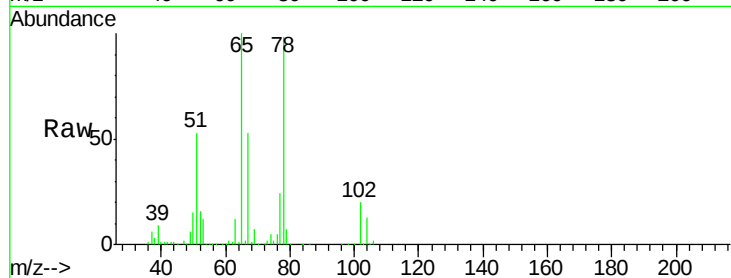
67 53.1 0.0 107.2

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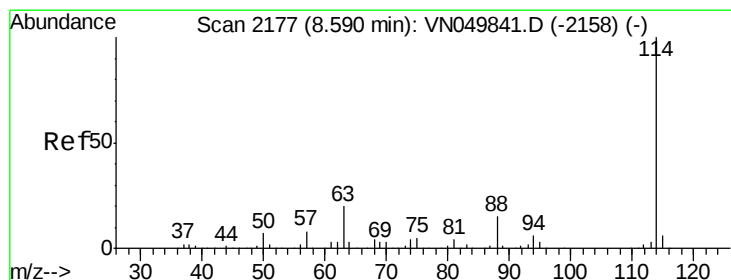
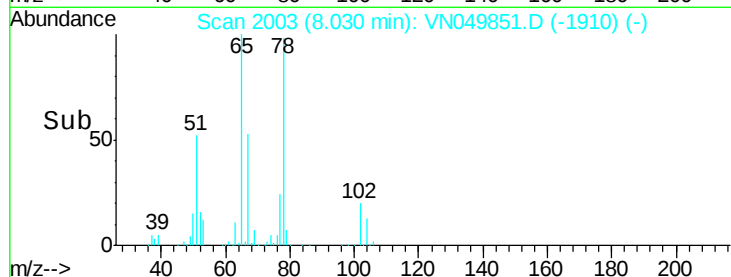
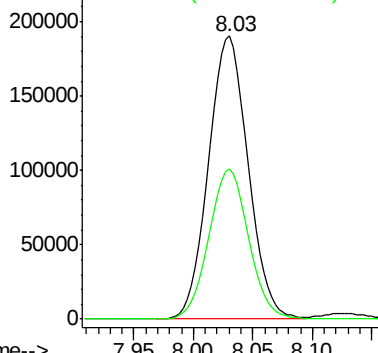
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Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

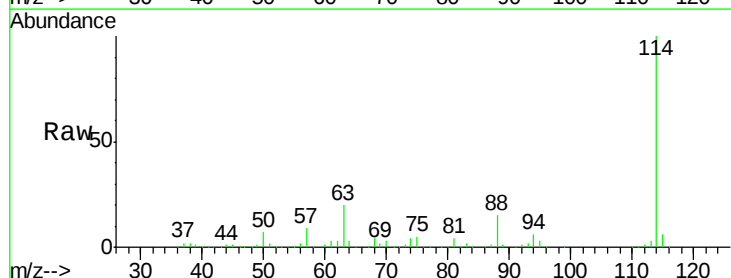
Tgt Ion: 114 Resp: 923733

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.8

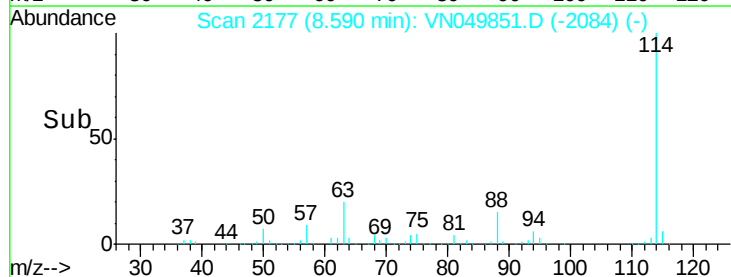
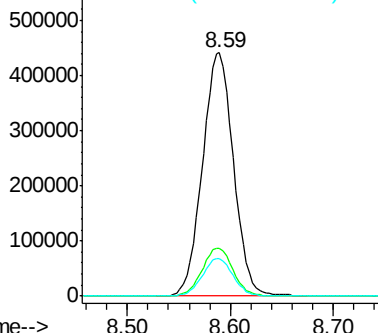
88 15.4 0.0 30.6

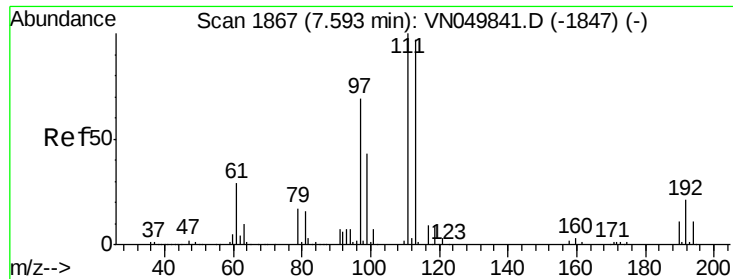


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





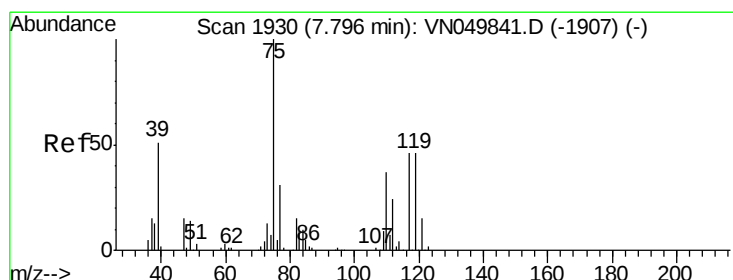
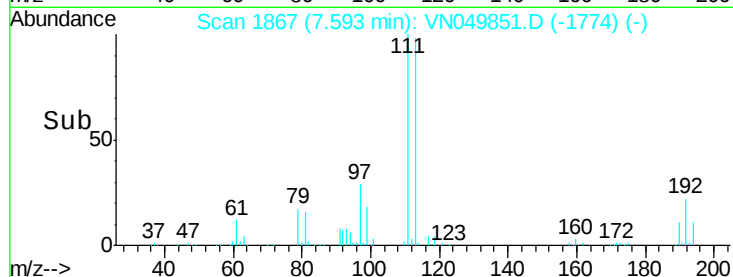
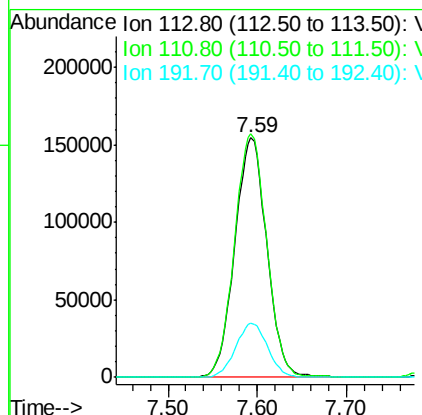
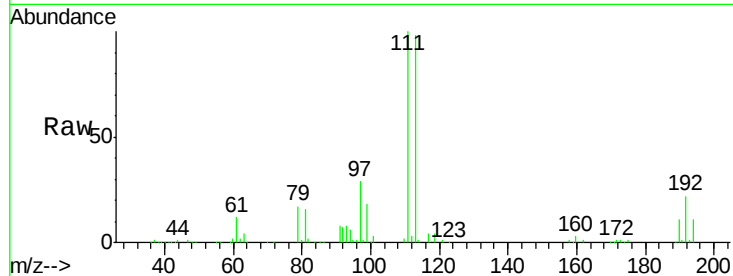
#35
 Dibromofluoromethane
 Concen: 52.64 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0717WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	385712		
111	101.8	81.8	122.8	
192	22.4	17.8	26.6	

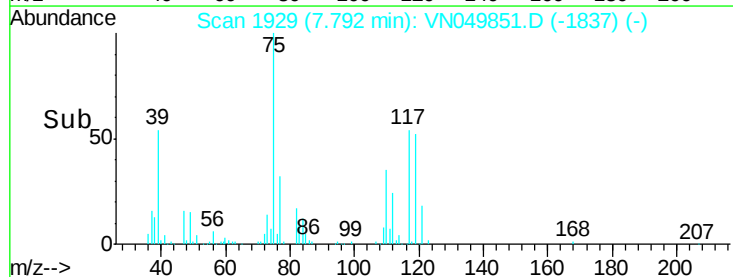
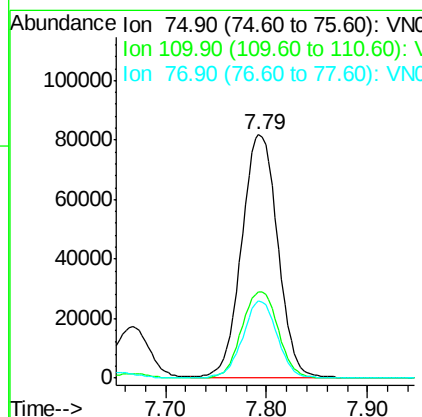
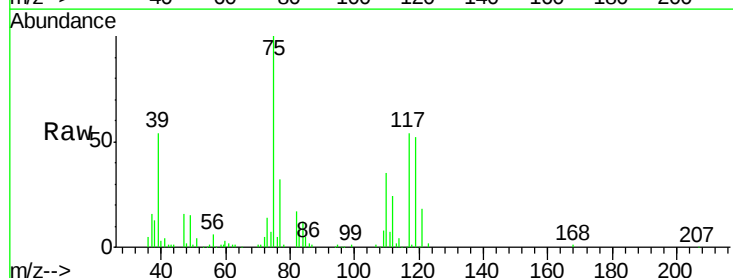
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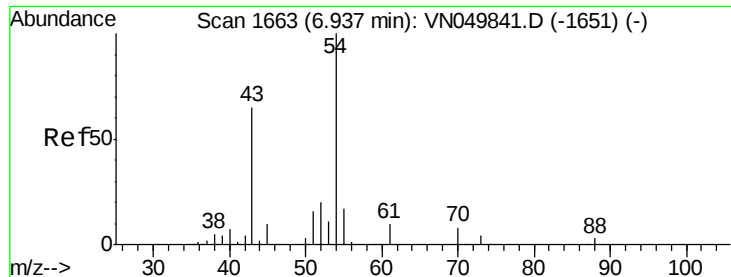
MMDadoda
 7/18/2018 11:59:16 AM



#36
 1,1-Dichloropropene
 Concen: 20.66 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	201895		
110	36.1	18.1	54.4	
77	30.6	24.9	37.3	





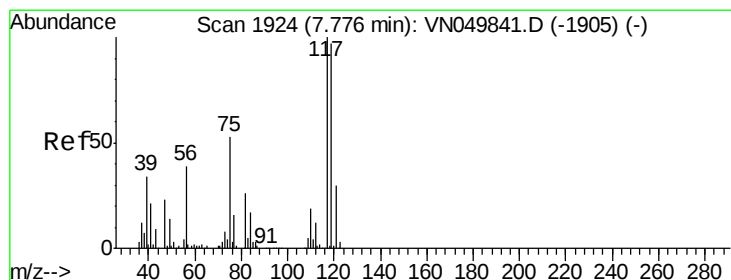
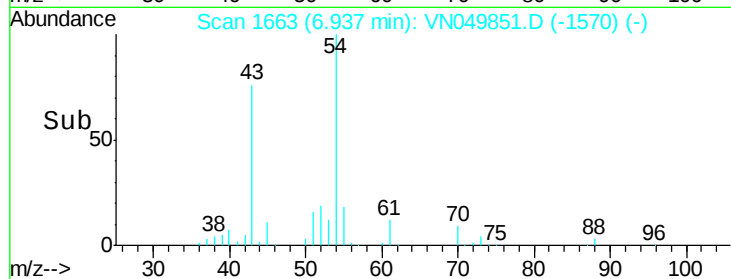
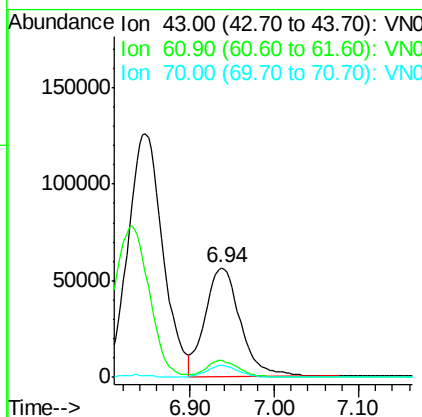
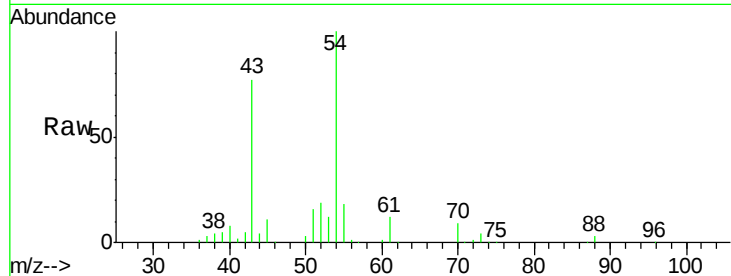
#37
Ethyl Acetate
Concen: 22.43 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion	43	61	70
Resp	163483		
Ratio	100	13.6	10.1
Lower		11.7	8.4
Upper		17.5	12.6

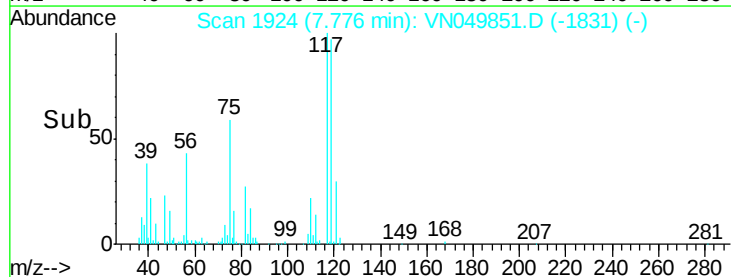
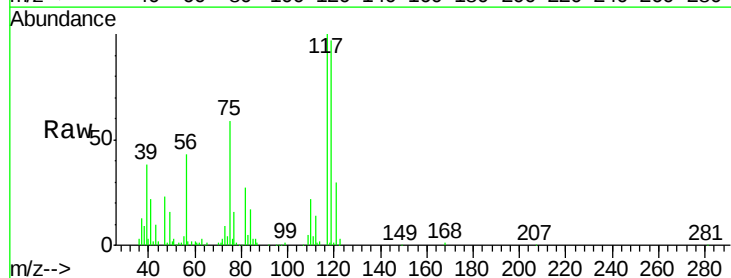
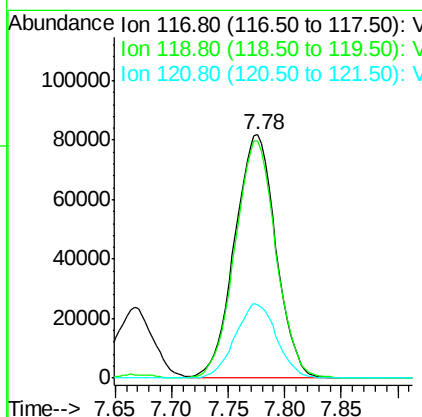
Manual Integrations
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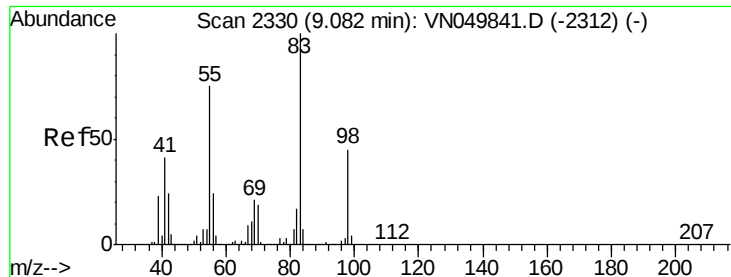
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#38
Carbon Tetrachloride
Concen: 20.19 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion	117	119	121
Resp	207853		
Ratio	100	97.2	30.2
Lower		77.2	25.0
Upper		115.8	37.6





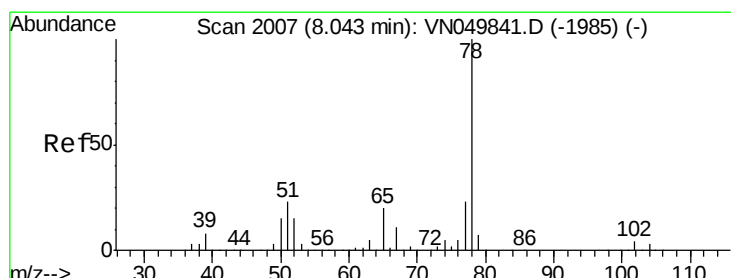
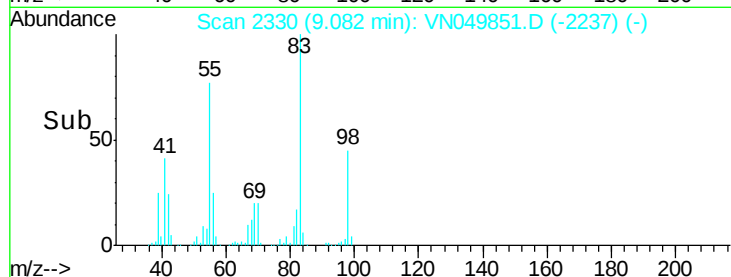
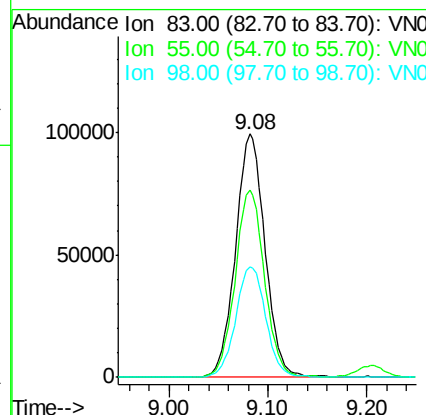
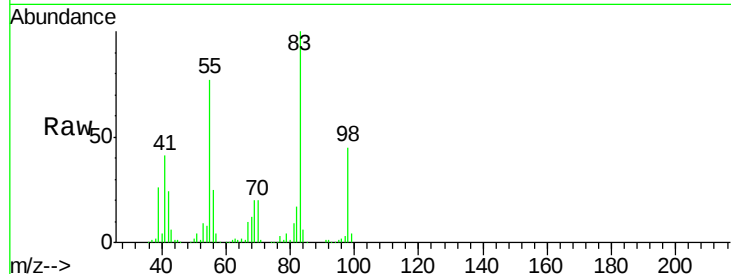
#39
Methvlcvclohexane
Concen: 20.52 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.9	59.7	89.5
98	45.5	36.5	54.7

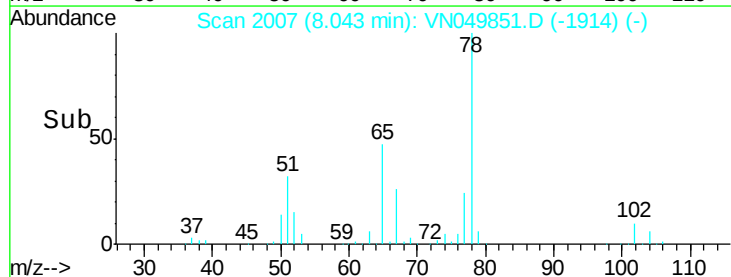
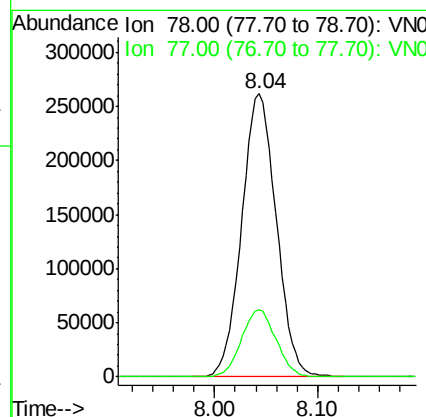
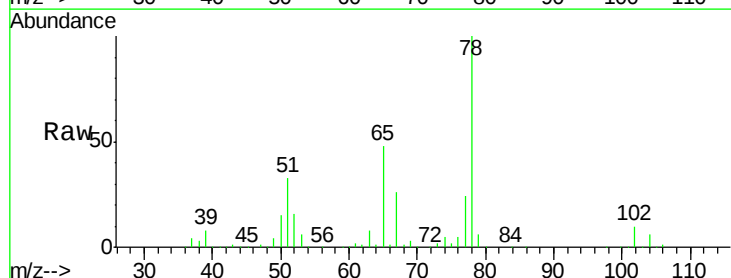
Manual Integrations
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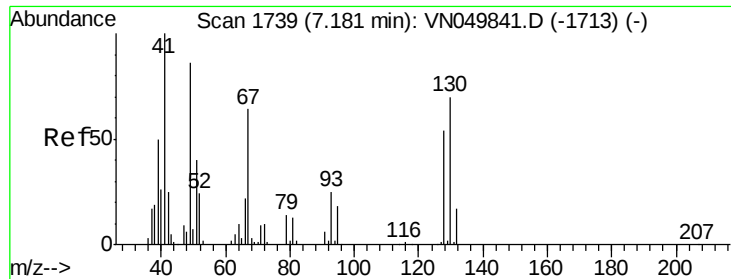
MMDadoda
7/18/2018 11:59:16 AM



#40
Benzene
Concen: 20.64 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4





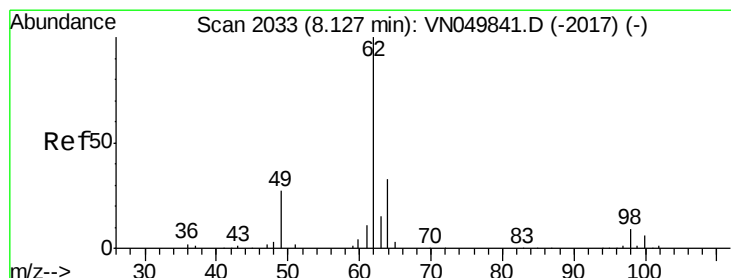
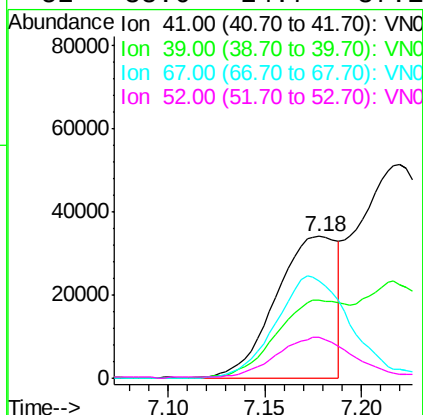
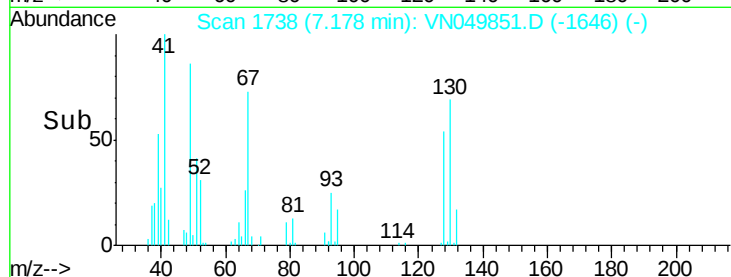
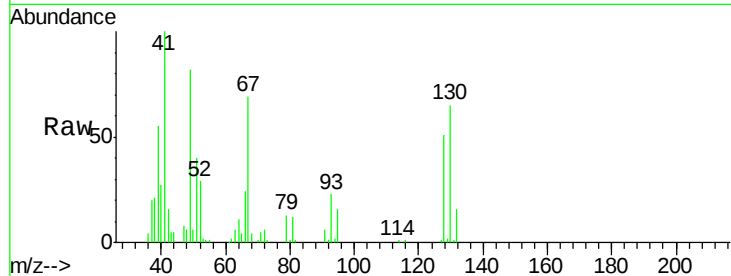
#41
Methacrylonitrile
Concen: 20.11 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
75258	41	100		
	39	63.6	45.4	68.2
	67	88.4	65.4	98.0
	52	38.6	24.7	37.1#

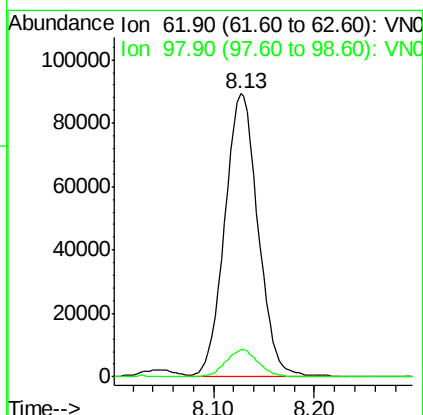
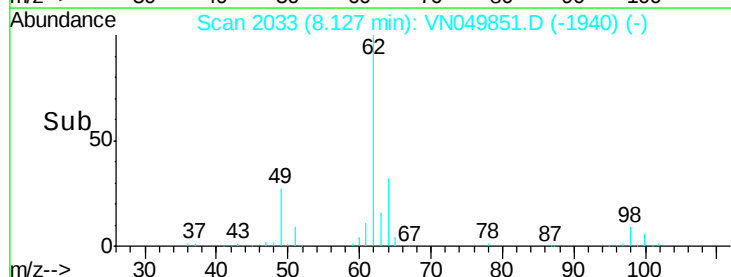
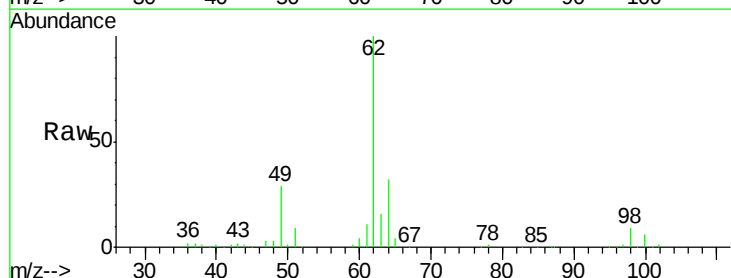
Manual Integrations
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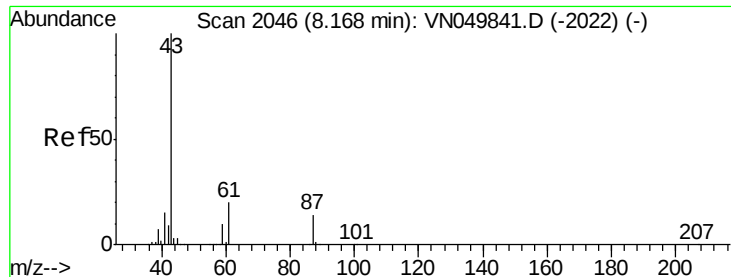
MMDadoda
7/18/2018 11:59:16 AM



#42
1,2-Dichloroethane
Concen: 20.27 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion	Ion	Ratio	Lower	Upper
204180	62	100		
	98	9.4	0.0	19.0





#43

Isopropyl Acetate

Concen: 21.78 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

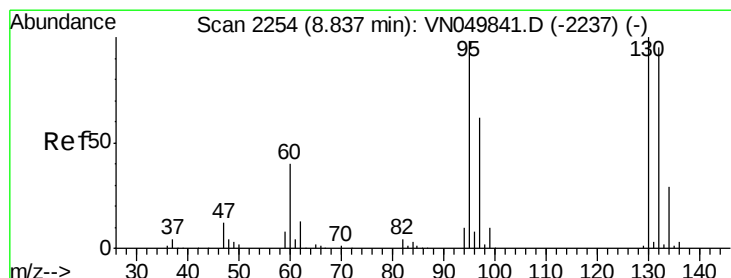
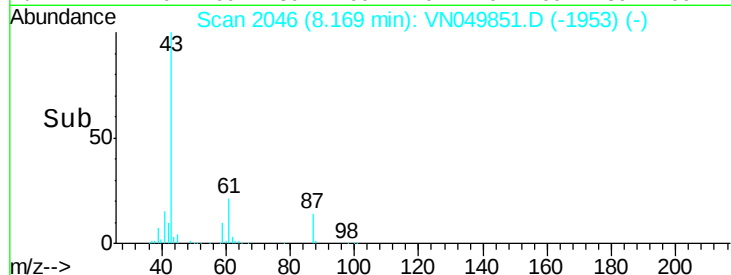
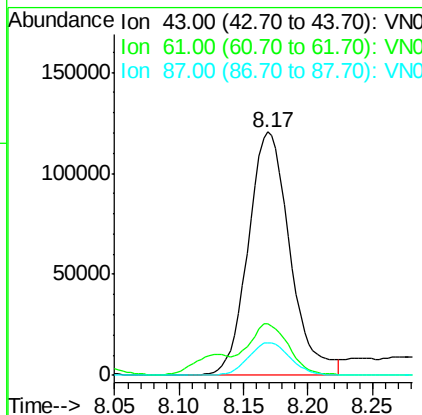
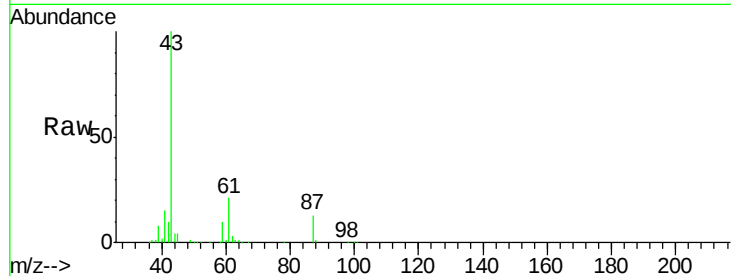
ClientSampleId :

VN0717WBSD01

Tot Ion:	43	Resp:	270101
Ion	Ratio	Lower	Upper
43	100		
61	20.3	14.9	22.3
87	13.5	10.0	15.0

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MMDadoda
7/18/2018 11:59:16 AM



#44

Trichloroethene

Concen: 20.57 ug/l

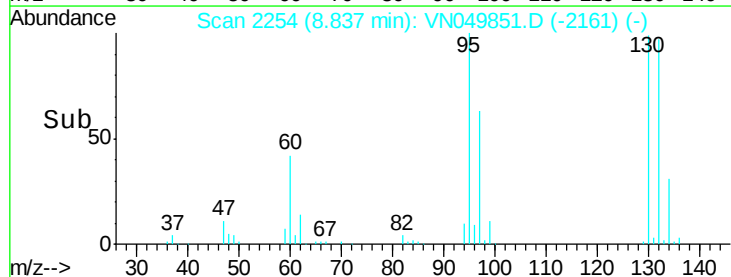
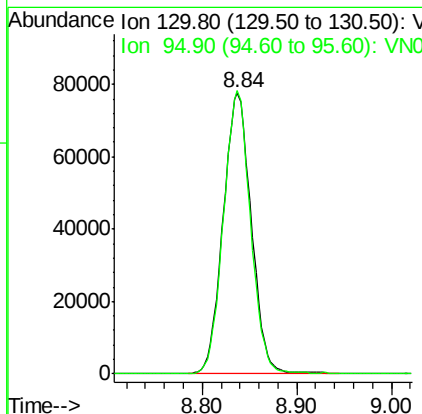
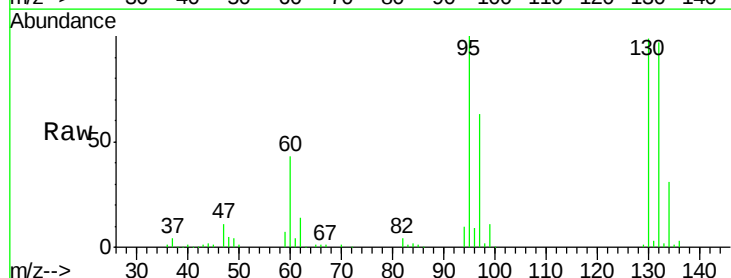
RT: 8.84 min Scan# 2254

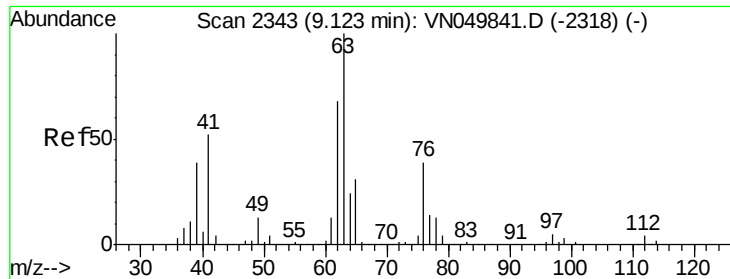
Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Tgt Ion:	130	Resp:	160322
Ion	Ratio	Lower	Upper
130	100		
95	100.6	0.0	192.8





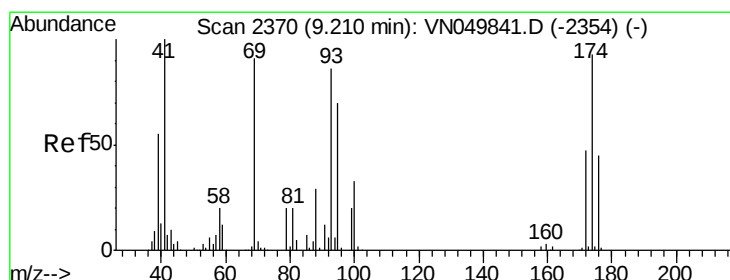
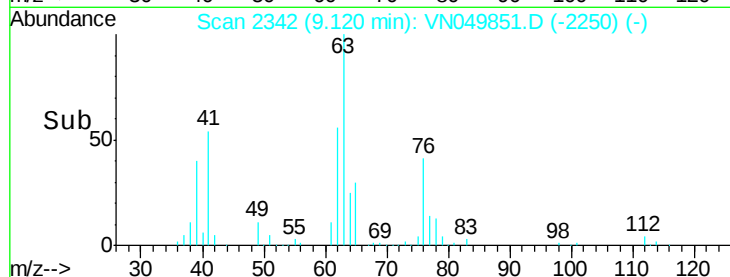
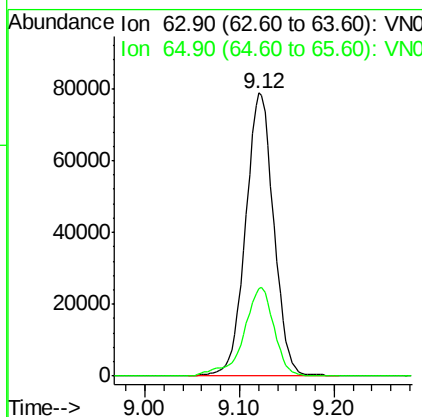
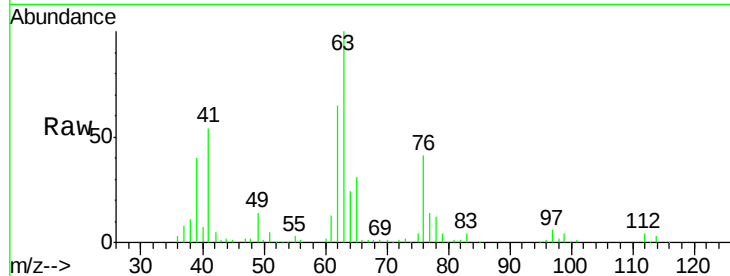
#45
 1,2-Dichloropropane
 Concen: 20.65 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0717WBSD01

Tot Ion: 63 Resp: 162976
 Ion Ratio Lower Upper
 63 100
 65 31.1 24.7 37.1

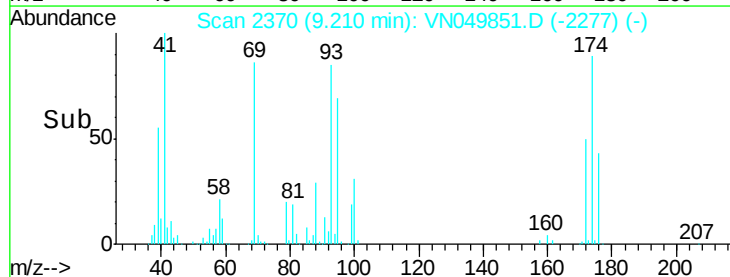
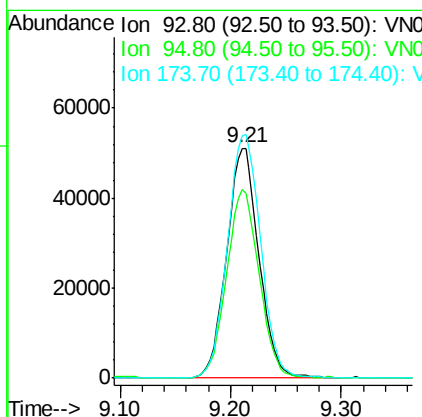
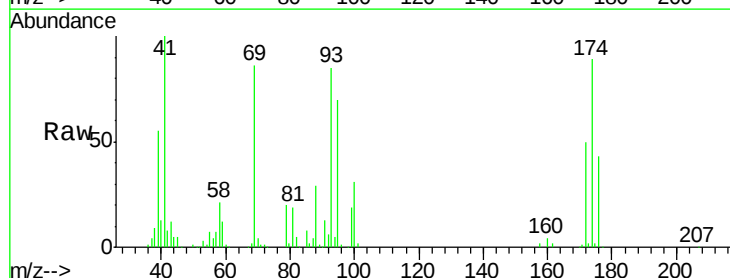
Manual Integrations
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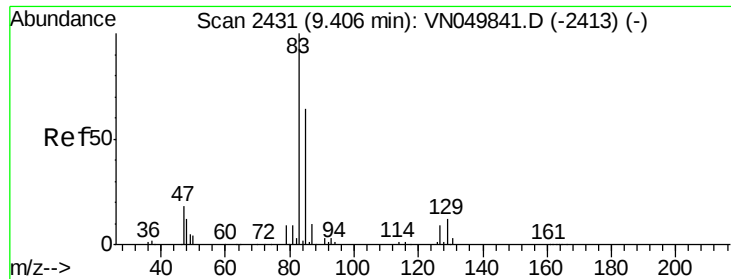
MMDadoda
 7/18/2018 11:59:16 AM



#46
 Dibromomethane
 Concen: 20.60 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Tgt Ion: 93 Resp: 103740
 Ion Ratio Lower Upper
 93 100
 95 82.7 67.9 101.9
 174 109.0 89.4 134.0





#47

Bromodichloromethane

Concen: 20.45 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

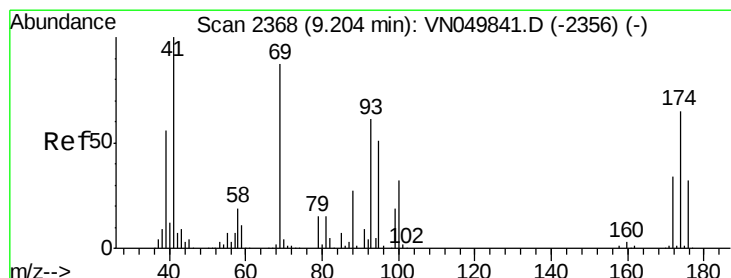
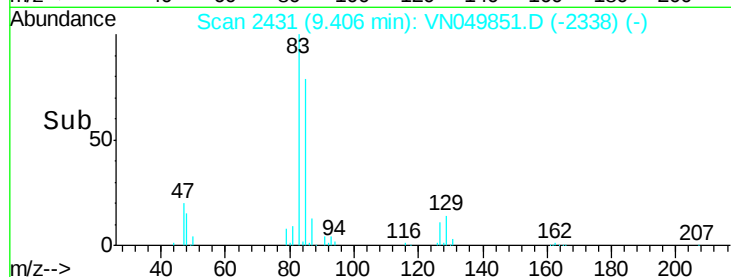
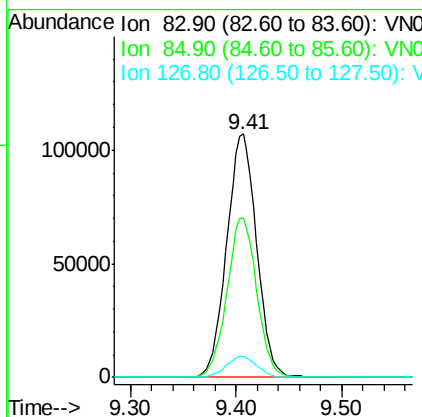
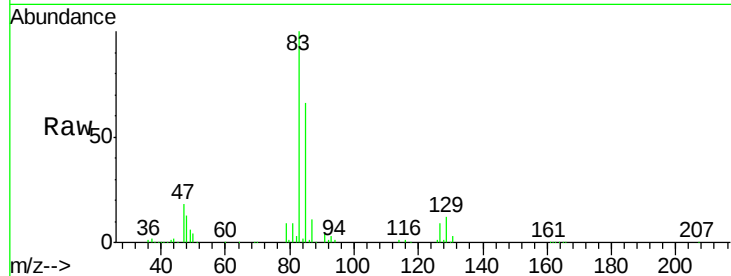
ClientSampleId :

VN0717WBSD01

Tot Ion:	83	Resp:	209305
Ion Ratio	Lower	Upper	
83	100		
85	65.5	50.5	75.7
127	8.7	6.8	10.2

Manual Integrations
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MMDadoda
7/18/2018 11:59:16 AM



#48

Methyl methacrylate

Concen: 21.56 ug/l

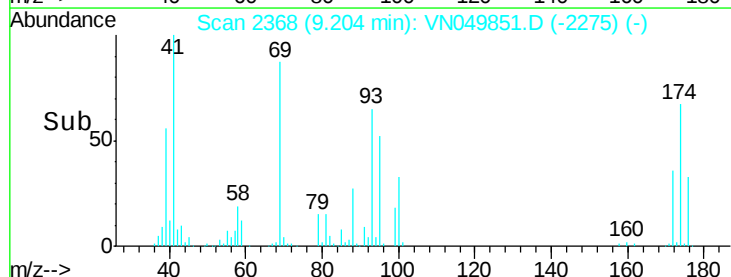
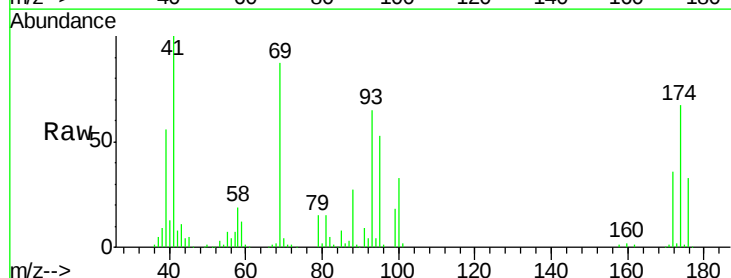
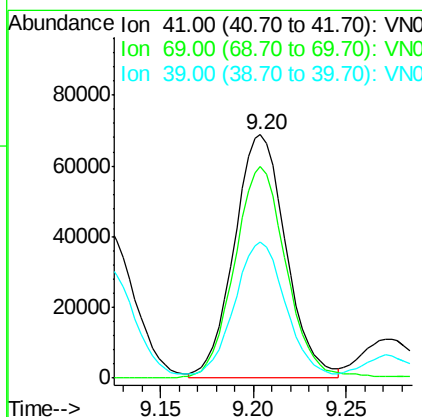
RT: 9.20 min Scan# 2368

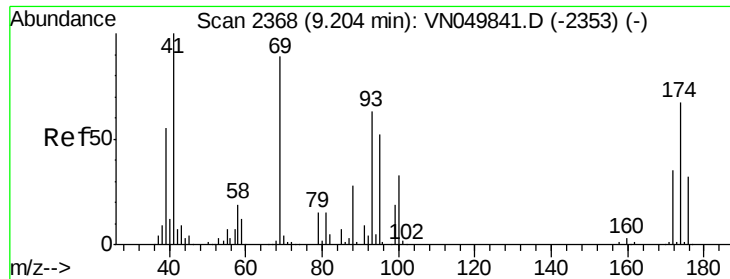
Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Tgt Ion:	41	Resp:	132600
Ion Ratio	Lower	Upper	
41	100		
69	87.8	71.5	107.3
39	55.8	44.7	67.1





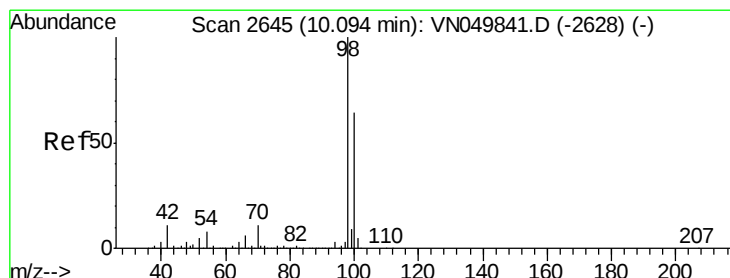
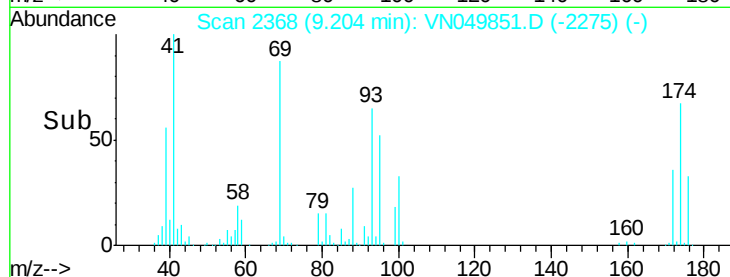
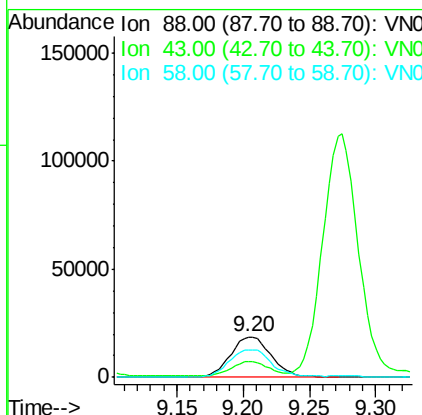
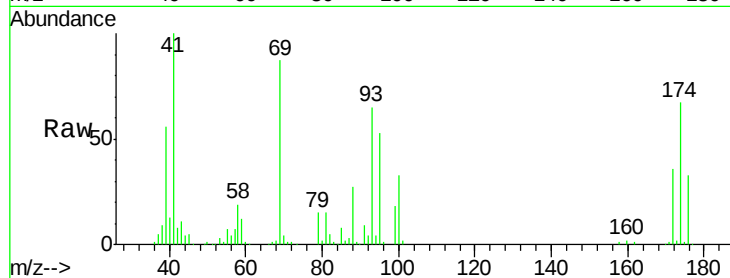
#49
1,4-Dioxane
Concen: 432.81 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion	88	Resp	40348
Ion Ratio	Lower	Upper	
88	100		
43	34.0	25.1	37.7
58	71.2	52.5	78.7

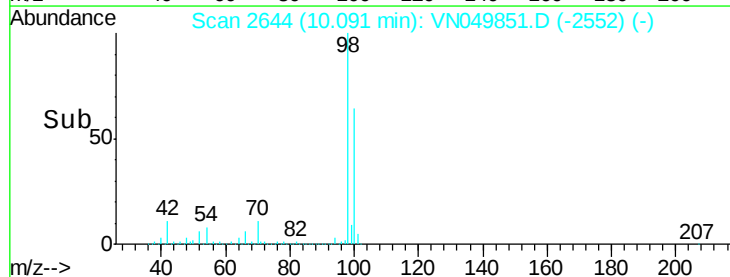
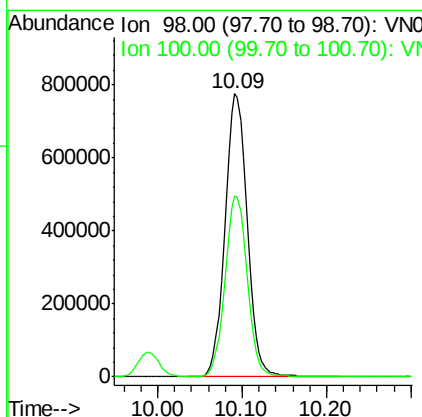
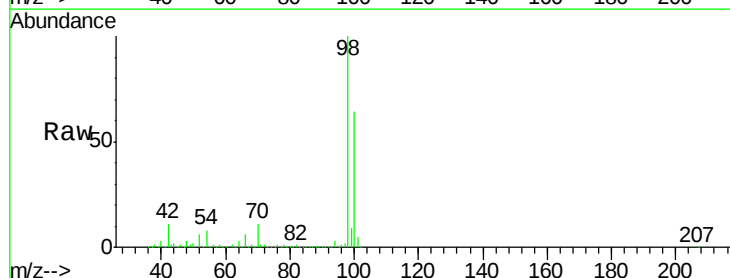
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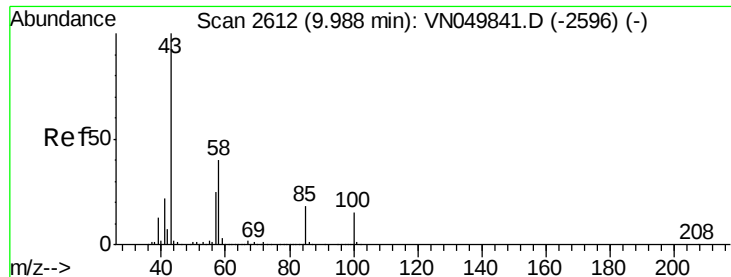
MMDadoda
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#50
Toluene-d8
Concen: 52.79 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion	98	Resp	1420032
Ion Ratio	Lower	Upper	
98	100		
100	64.0	51.7	77.5





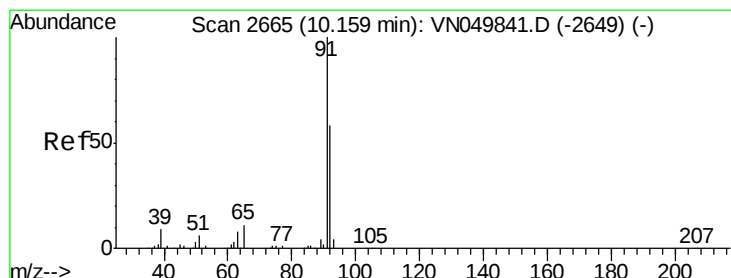
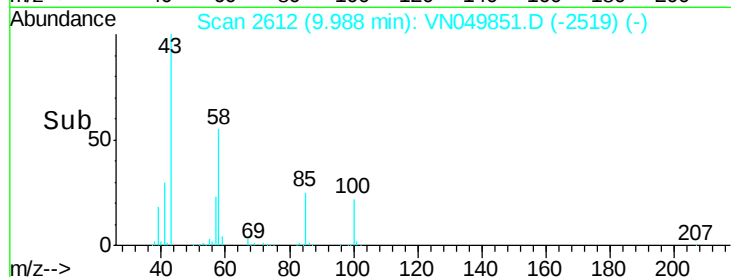
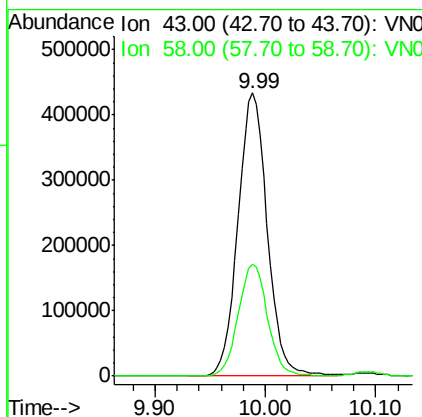
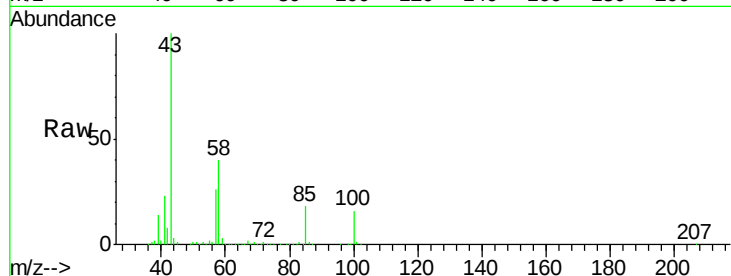
#51
4-Methyl-2-Pentanone
Concen: 109.02 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.7	31.8	47.8

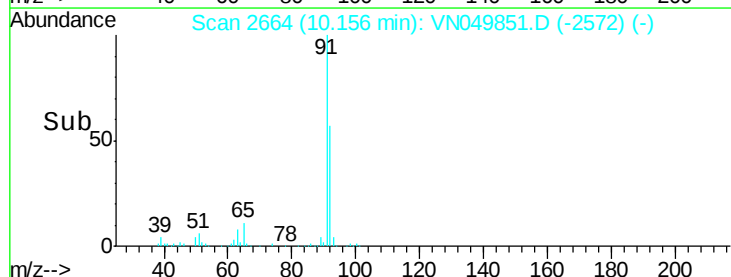
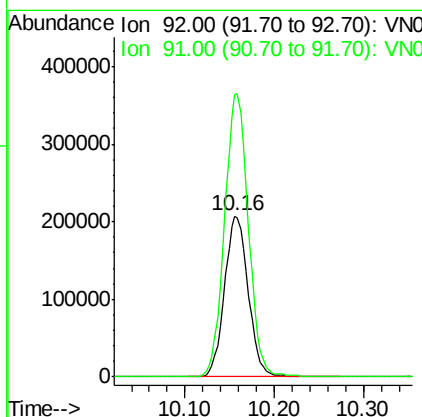
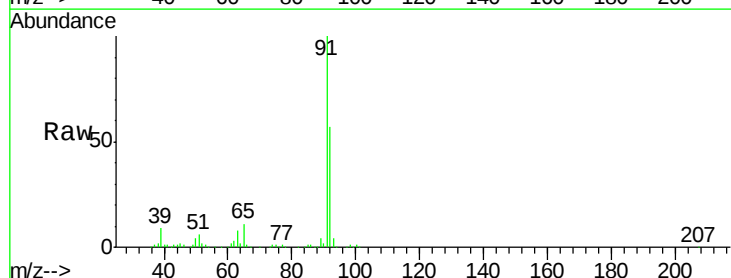
Manual Integrations
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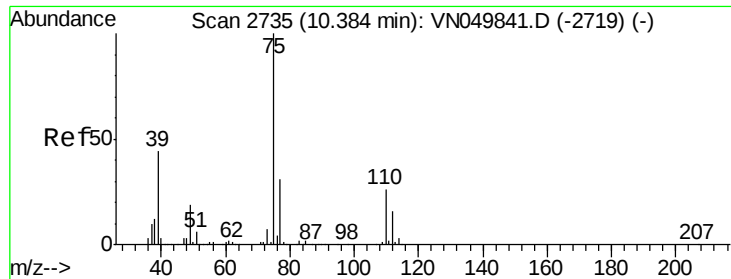
MMDadoda
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#52
Toluene
Concen: 21.44 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. -0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
92	100		
91	177.5	140.1	210.1





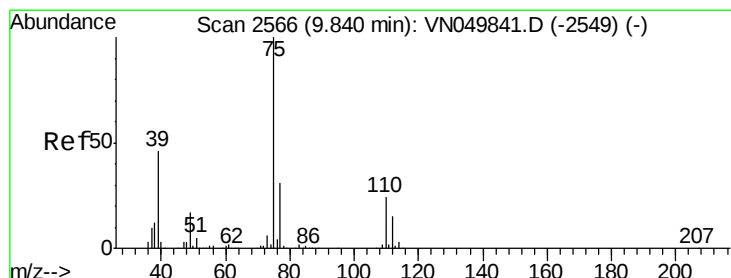
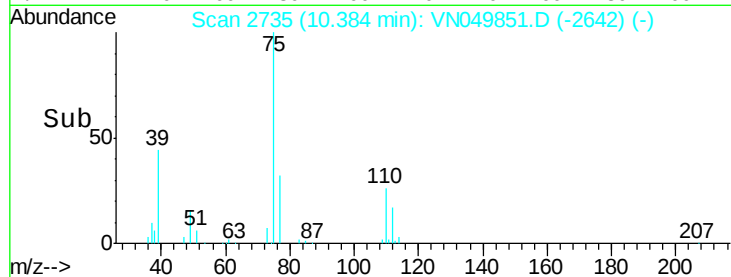
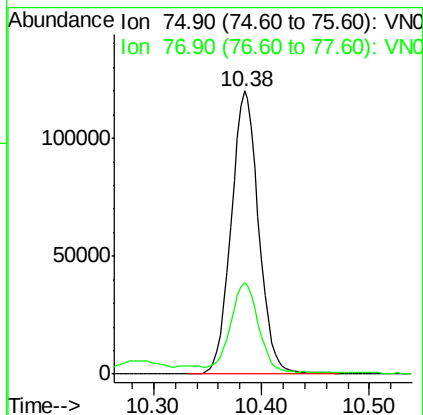
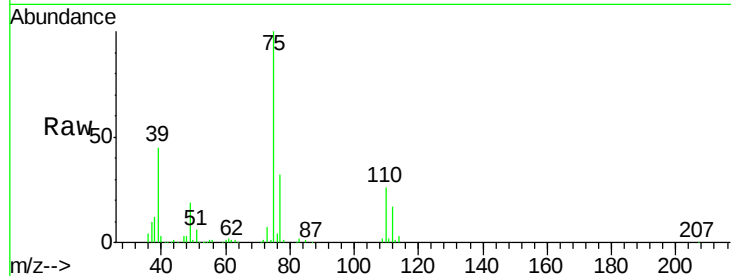
#53
t-1,3-Dichloropropene
Concen: 21.39 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampled :
VN0717WBSD01

Tot Ion: 75 Resp: 213697
Ion Ratio Lower Upper
75 100
77 31.7 25.2 37.8

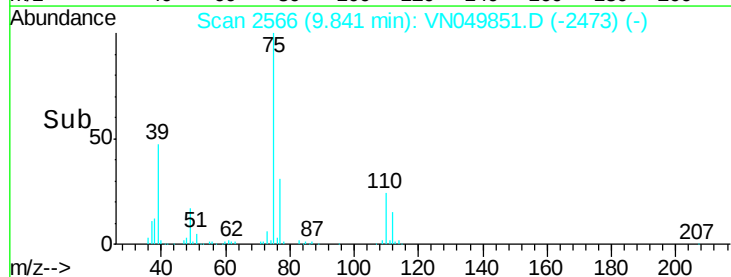
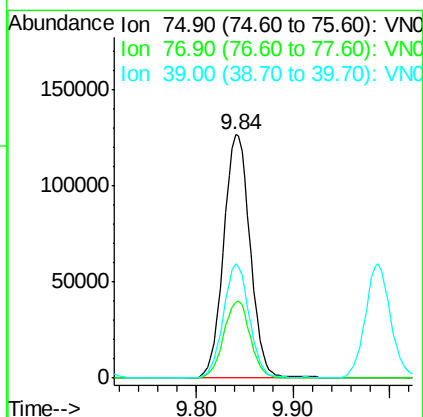
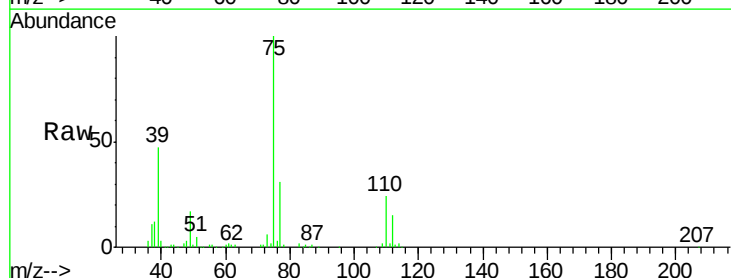
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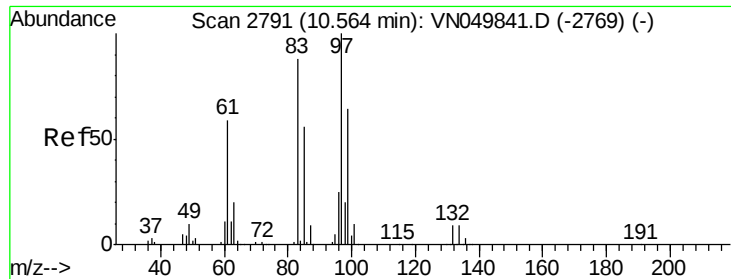
MMDadoda
7/18/2018 11:59:16 AM



#54
cis-1,3-Dichloropropene
Concen: 21.52 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion: 75 Resp: 241336
Ion Ratio Lower Upper
75 100
77 31.4 25.3 37.9
39 47.0 35.5 53.3





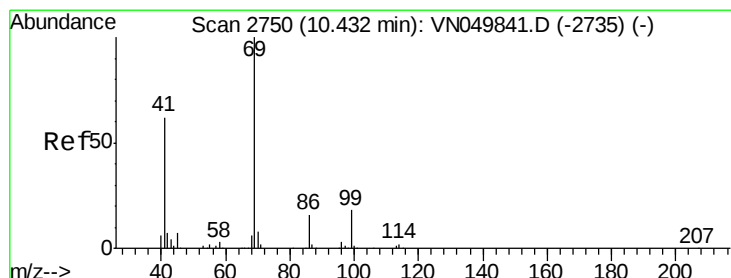
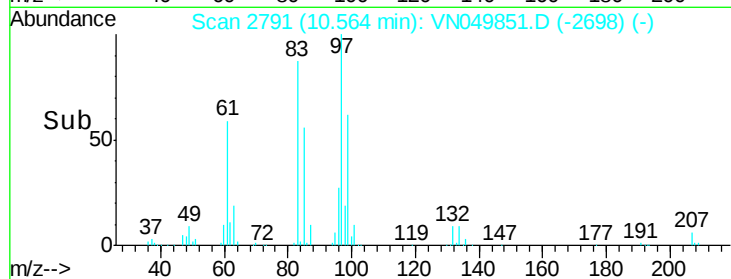
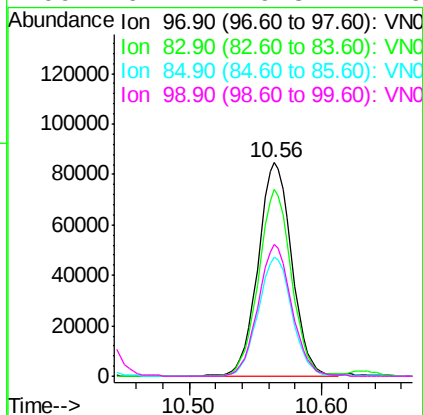
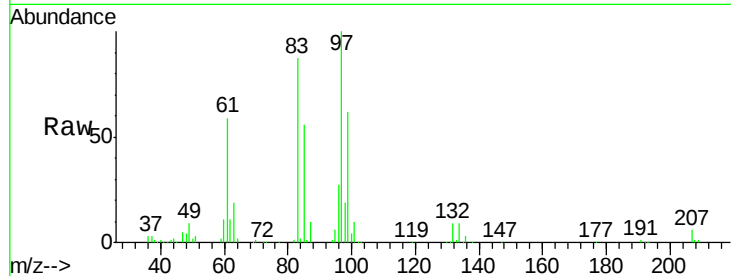
#55
 1,1,2-Trichloroethane
 Concen: 20.59 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0717WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		149985		
83	87.2	69.0	103.6		
85	56.0	44.9	67.3		
99	61.7	49.8	74.6		

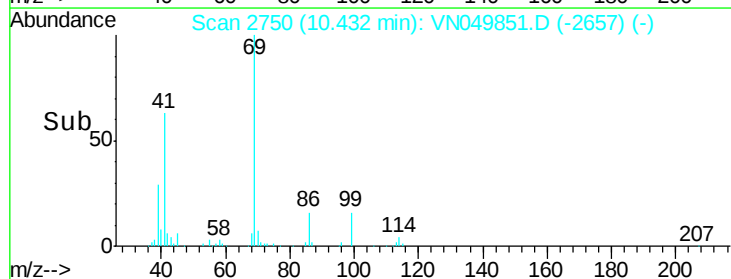
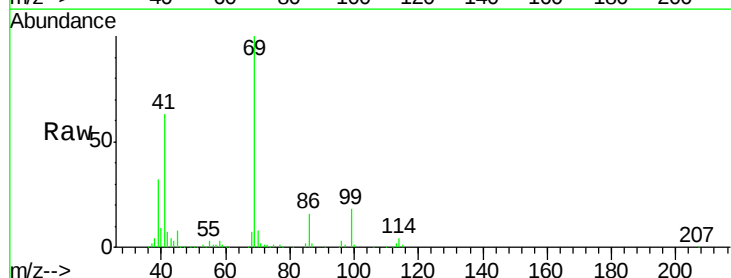
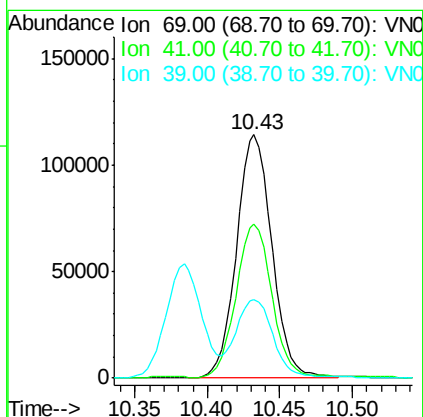
Manual Integrations
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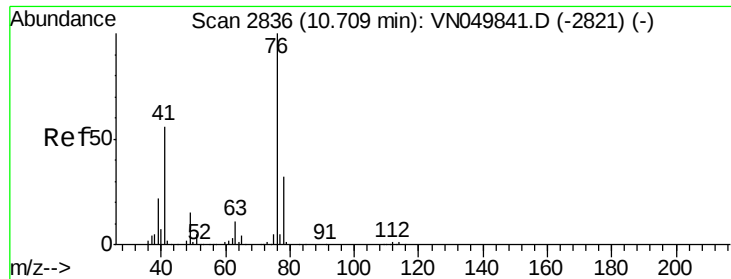
MMDadoda
 7/18/2018 11:59:16 AM



#56
 Ethyl methacrylate
 Concen: 21.99 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		194088		
41	63.8	51.6	77.4		
39	33.9	25.8	38.8		





#57

1,3-Dichloropropane

Concen: 20.76 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion: 76 Resp: 244958

Ion Ratio Lower Upper

76 100

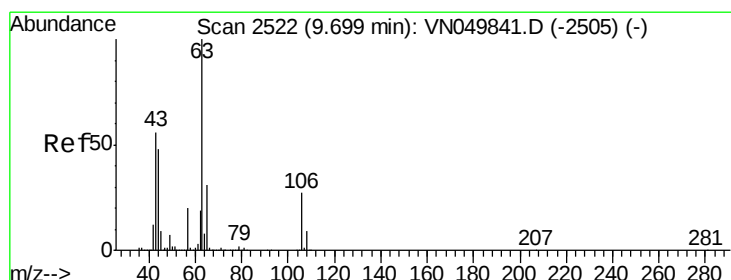
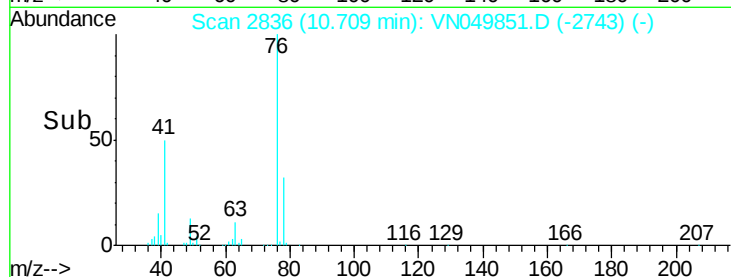
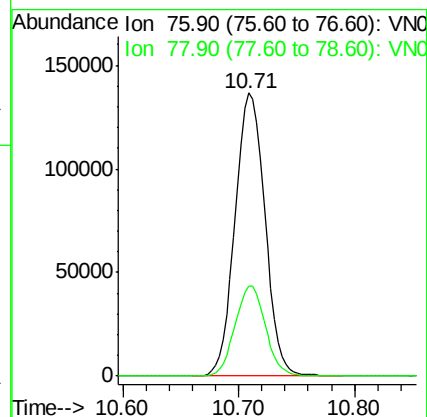
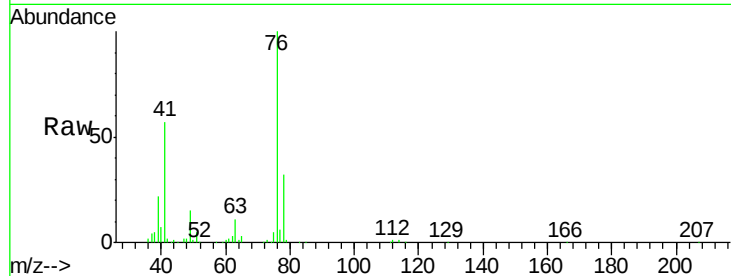
78 32.3 25.8 38.8

Manual Integrations

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MMDadoda

7/18/2018 11:59:16 AM



#58

2-Chloroethyl Vinyl ether

Concen: 114.91 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN049851.D

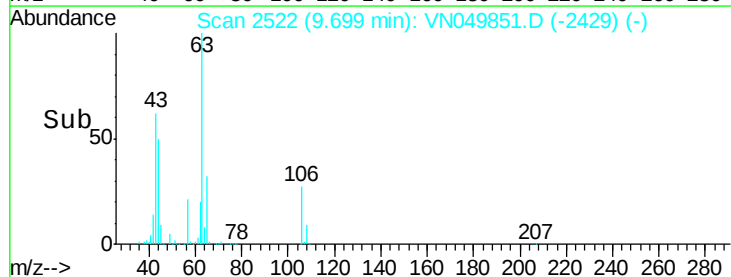
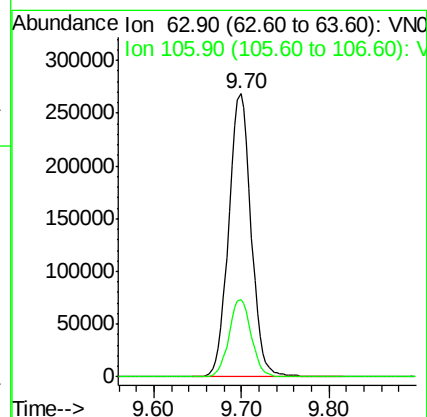
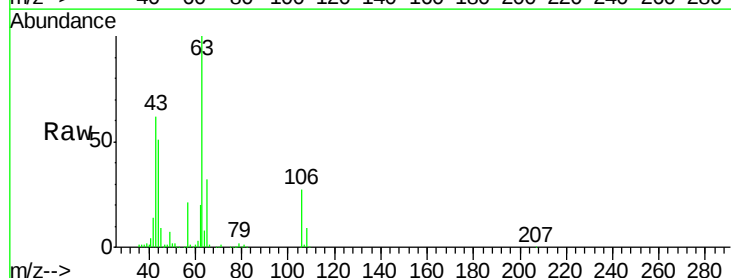
Acq: 17 Jul 2018 17:26

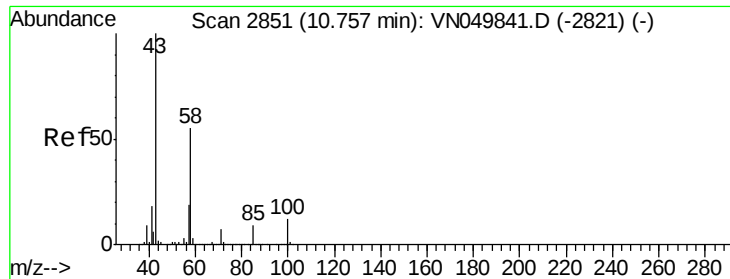
Tgt Ion: 63 Resp: 478673

Ion Ratio Lower Upper

63 100

106 27.2 21.8 32.8





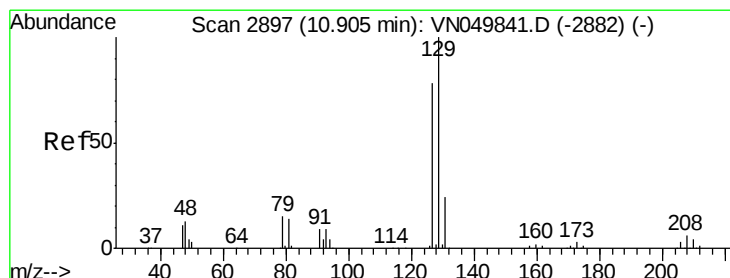
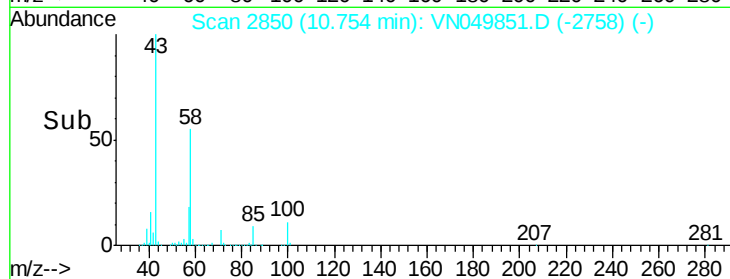
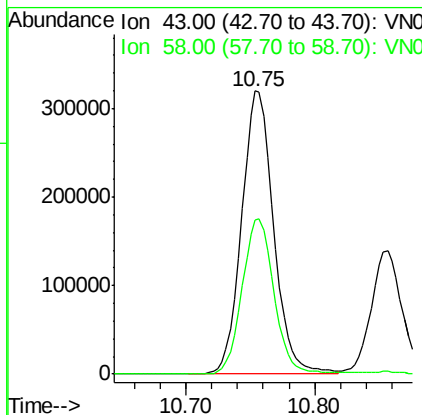
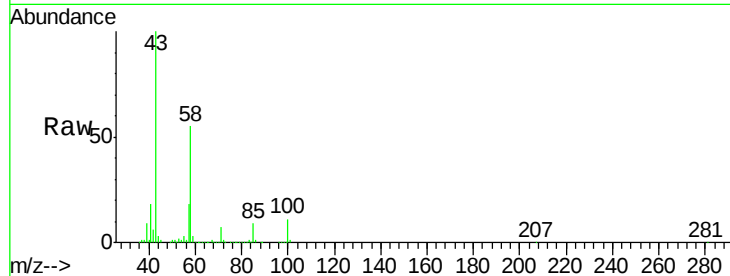
#59
2-Hexanone
Concen: 109.86 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion: 43 Resp: 549462
Ion Ratio Lower Upper
43 100
58 55.4 27.8 83.4

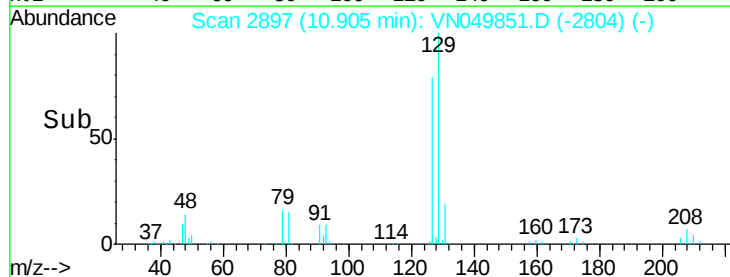
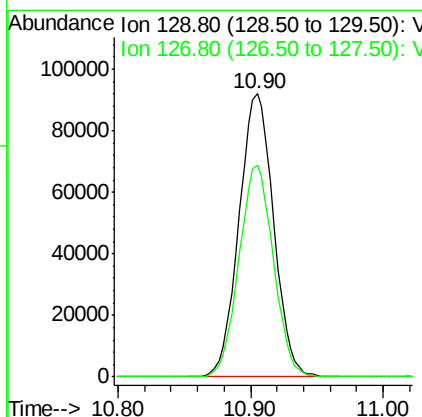
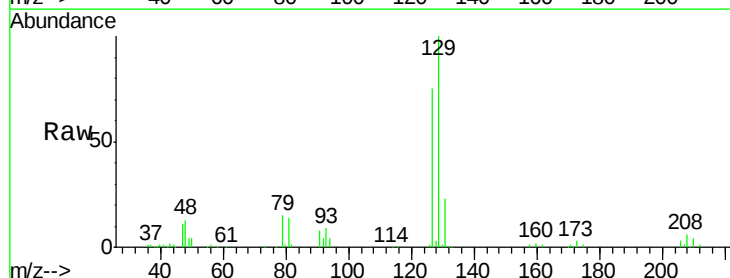
Manual Integrations
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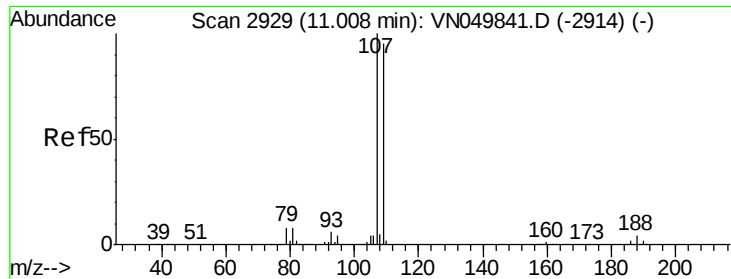
MMDadoda
7/18/2018 11:59:16 AM



#60
Dibromochloromethane
Concen: 20.57 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion: 129 Resp: 166894
Ion Ratio Lower Upper
129 100
127 74.3 38.3 114.9





#61

1,2-Dibromoethane

Concen: 20.83 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion: 107 Resp: 148748

Ion Ratio Lower Upper

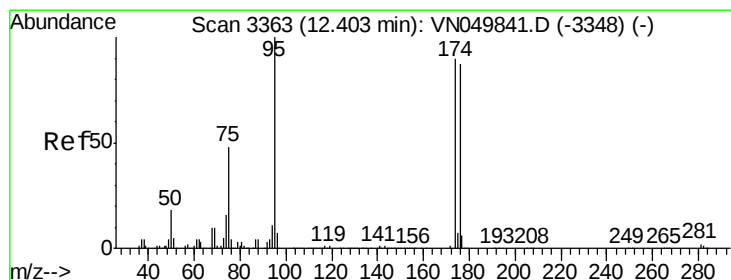
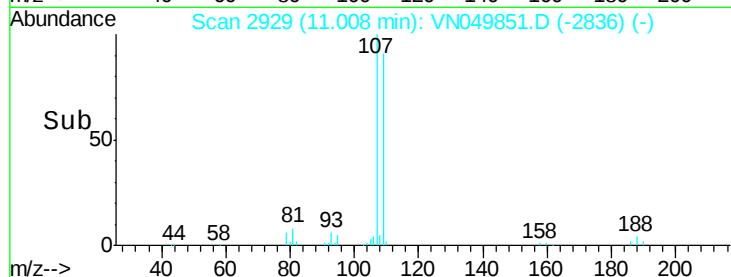
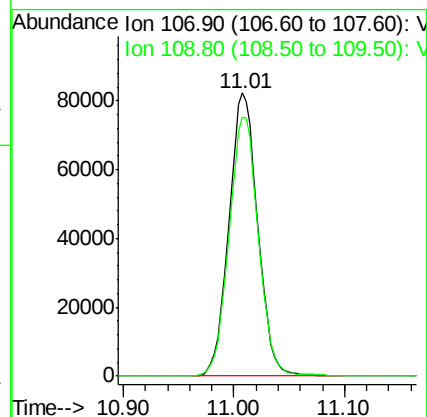
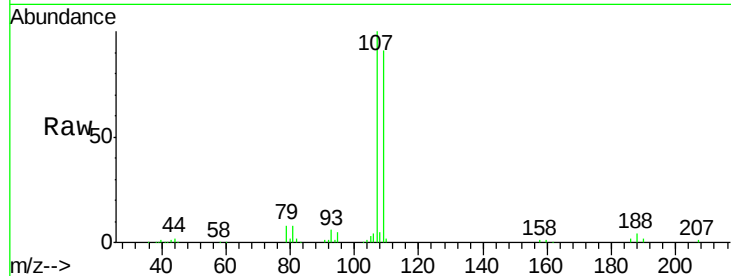
107 100

109 93.3 75.0 112.6

Manual Integrations
APPROVED

MMDadoda

7/18/2018 11:59:16 AM



#62

4-Bromofluorobenzene

Concen: 53.10 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

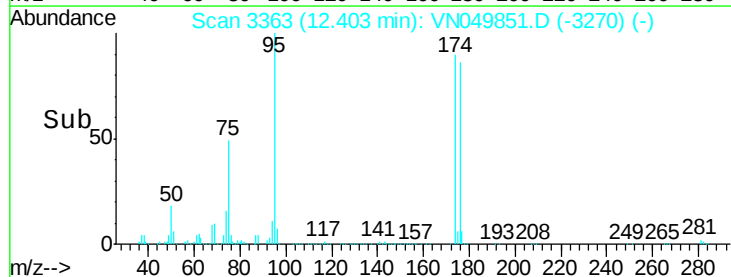
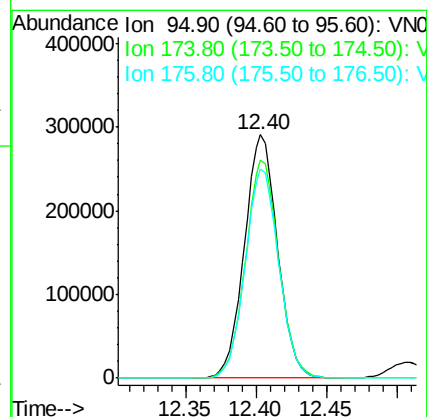
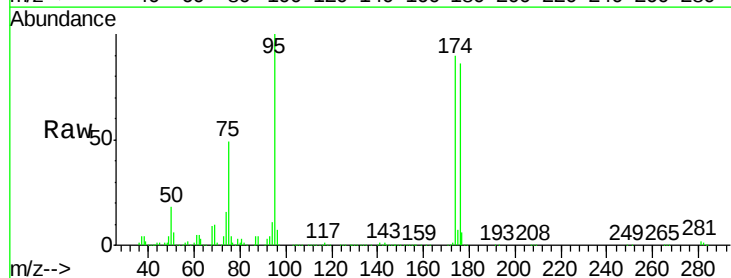
Tgt Ion: 95 Resp: 478414

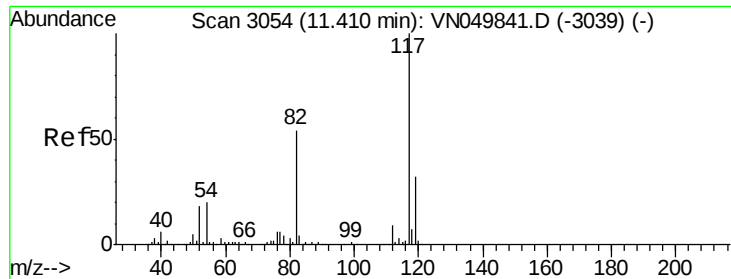
Ion Ratio Lower Upper

95 100

174 90.2 0.0 179.6

176 87.0 0.0 174.0





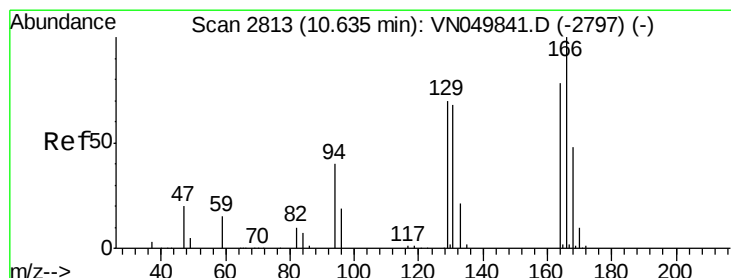
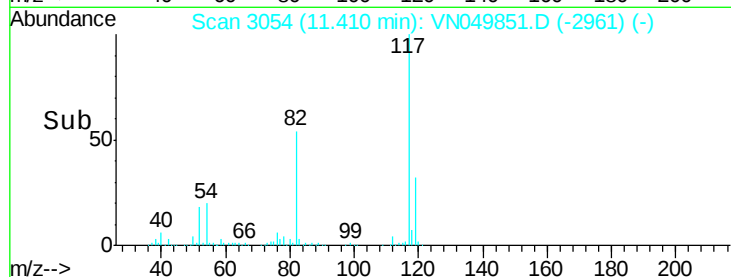
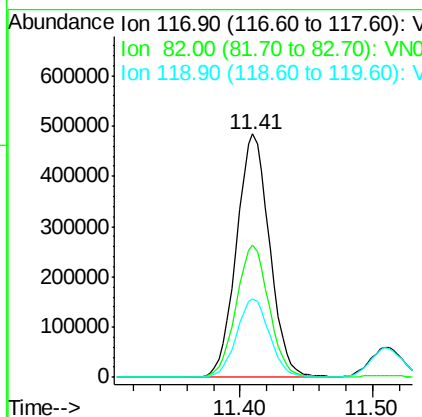
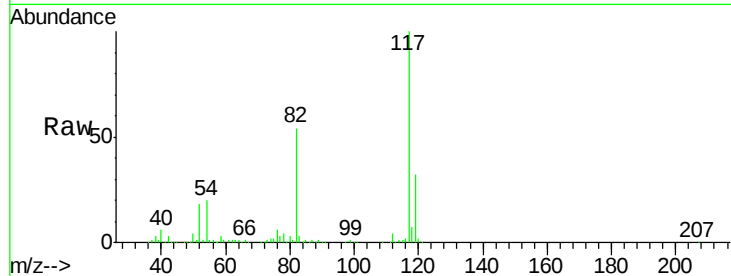
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.3	41.9	62.9
119	32.5	25.4	38.2

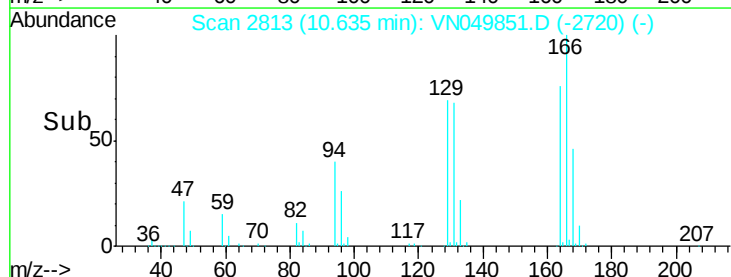
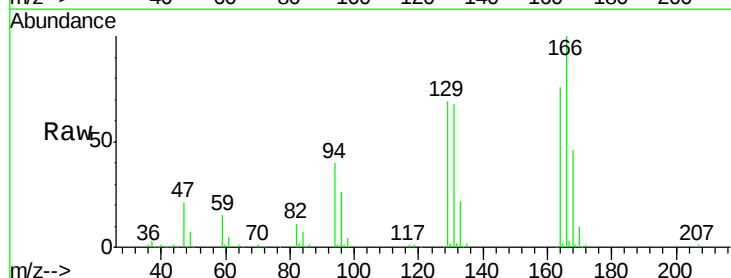
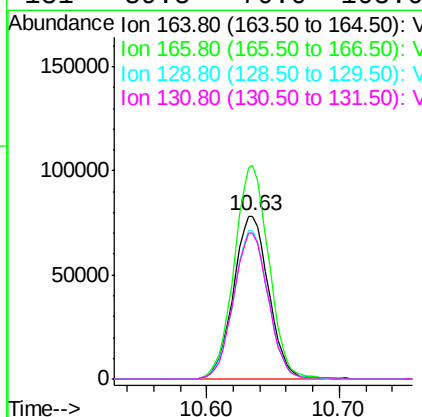
Manual Integrations
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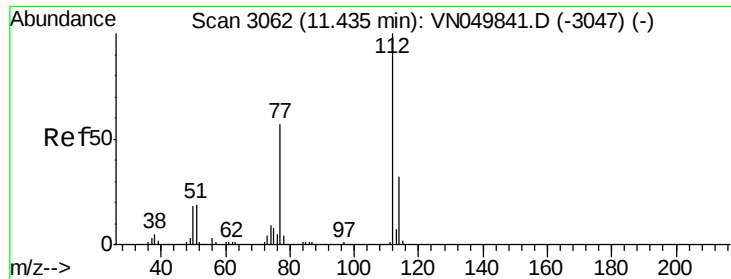
MMDadoda
7/18/2018 11:59:16 AM



#64
Tetrachloroethene
Concen: 20.27 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.1	101.8	152.6
129	90.9	72.8	109.2
131	89.5	70.0	105.0





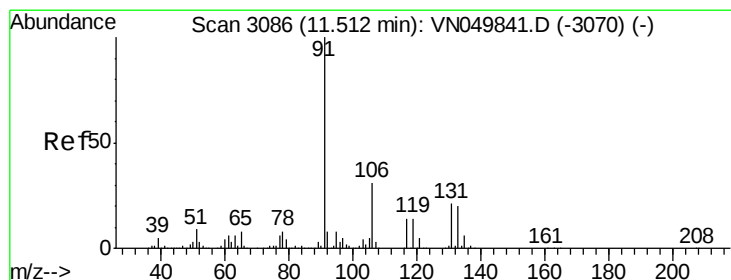
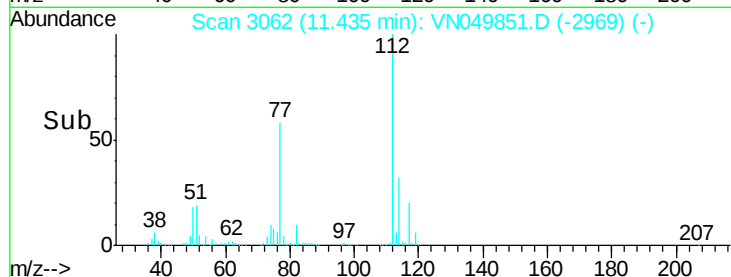
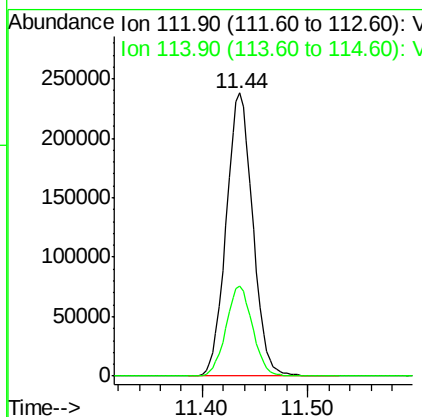
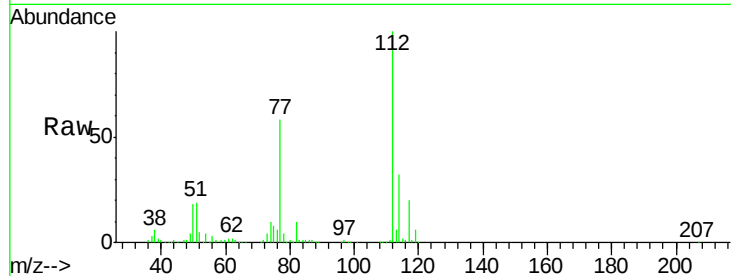
#65
Chlorobenzene
Concen: 20.79 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion:112 Resp: 413097
Ion Ratio Lower Upper
112 100
114 31.7 25.4 38.0

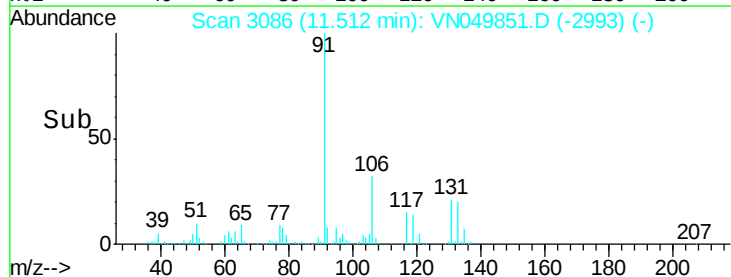
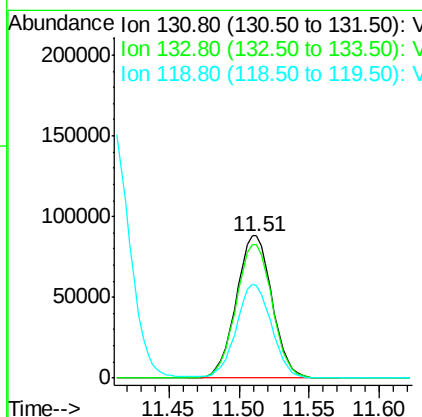
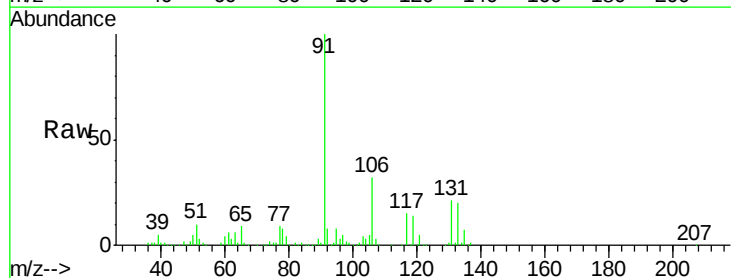
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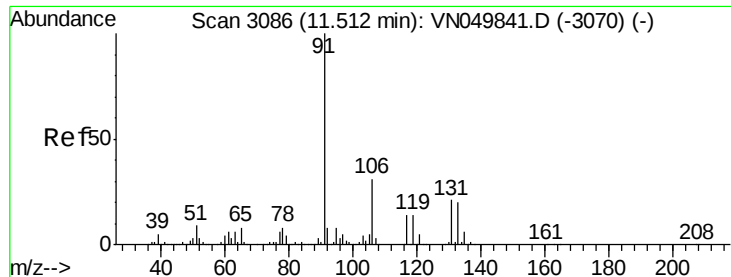
MMDadoda
7/18/2018 11:59:16 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.58 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion:131 Resp: 156990
Ion Ratio Lower Upper
131 100
133 94.9 47.5 142.6
119 65.0 33.1 99.3





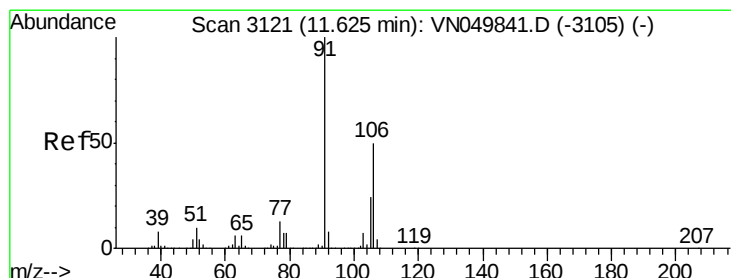
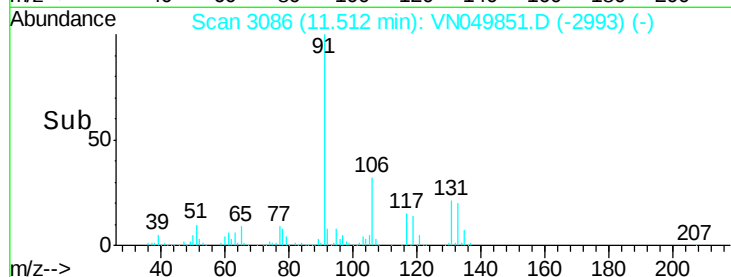
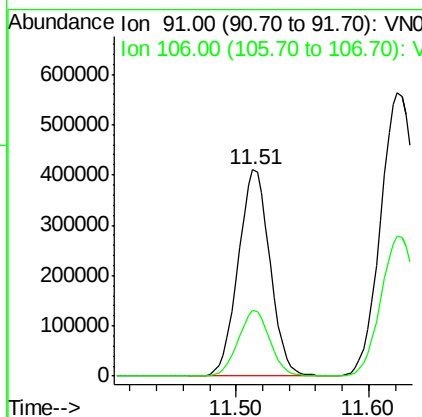
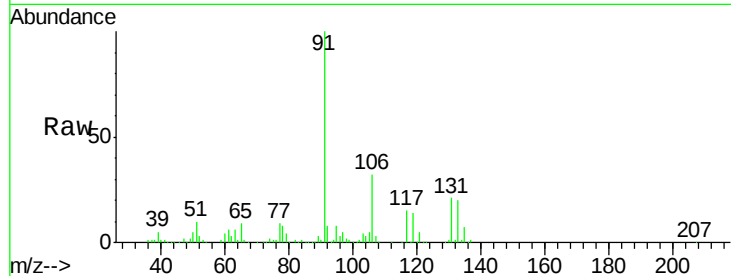
#67
Ethyl Benzene
Concen: 21.44 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion: 91 Resp: 684749
Ion Ratio Lower Upper
91 100
106 31.7 24.8 37.2

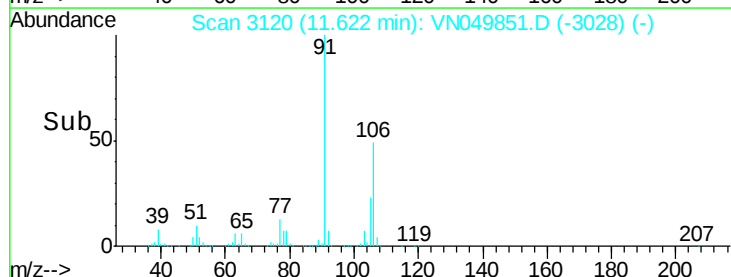
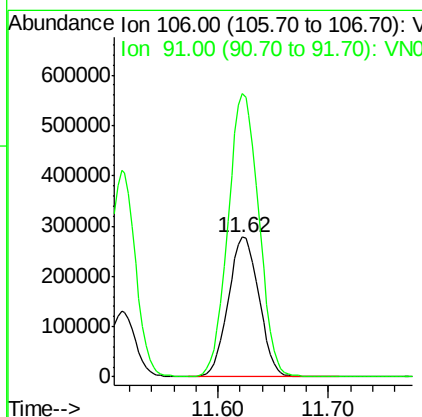
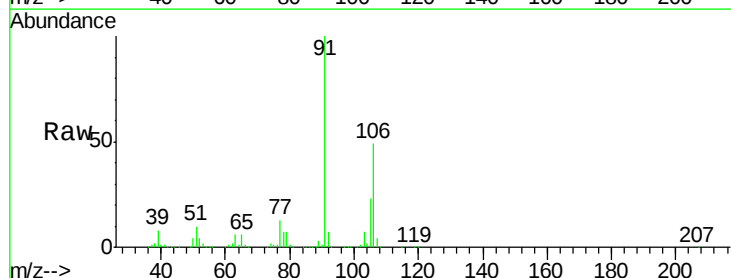
Manual Integrations
APPROVED

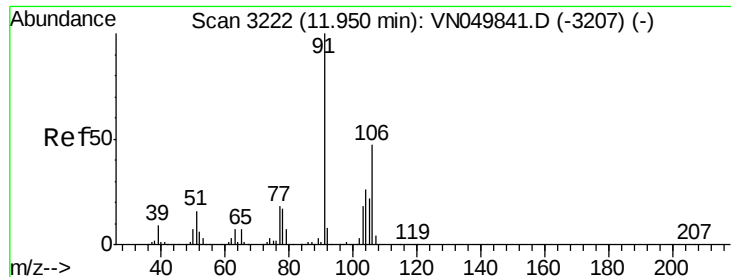
MMDadoda
7/18/2018 11:59:16 AM



#68
m/p-Xylenes
Concen: 44.48 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. -0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion: 106 Resp: 538923
Ion Ratio Lower Upper
106 100
91 202.2 163.4 245.2





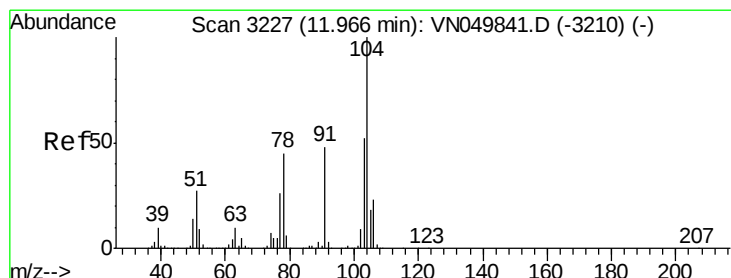
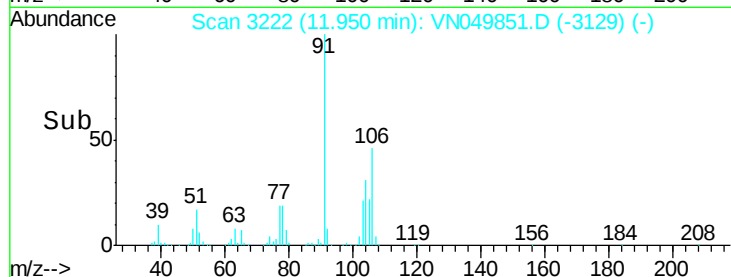
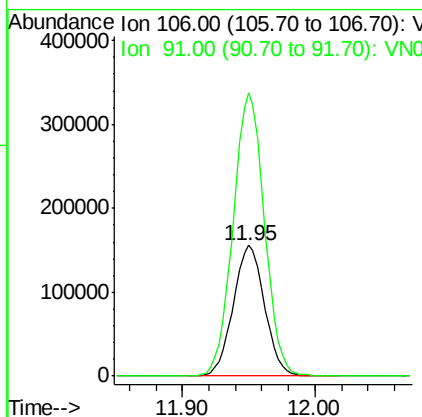
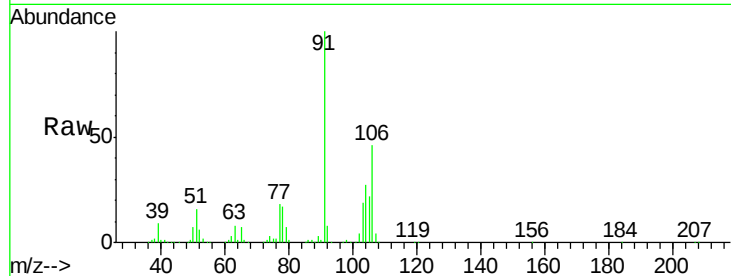
#69
o-Xylene
Concen: 22.16 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		256033		
91	215.9	108.7	326.1		

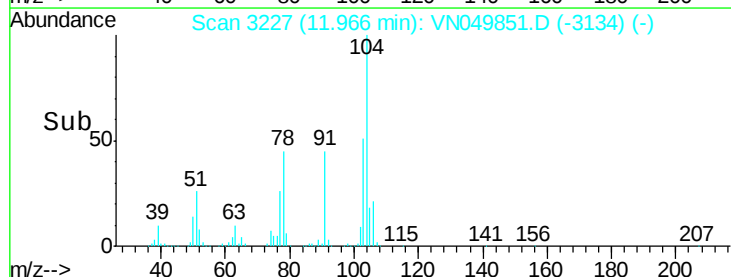
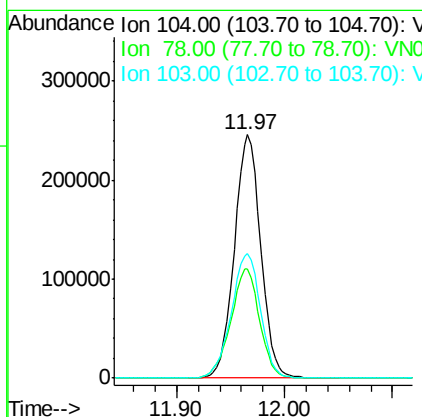
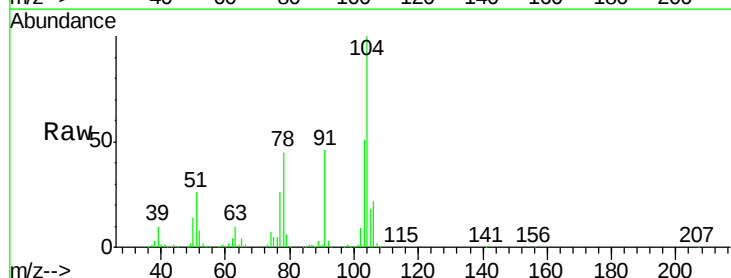
Manual Integrations
APPROVED

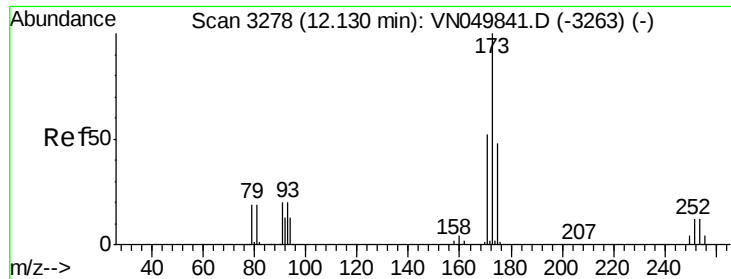
MMDadoda
7/18/2018 11:59:16 AM



#70
Styrene
Concen: 22.44 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		420144		
78	48.9	39.2	58.8		
103	56.5	44.6	67.0		





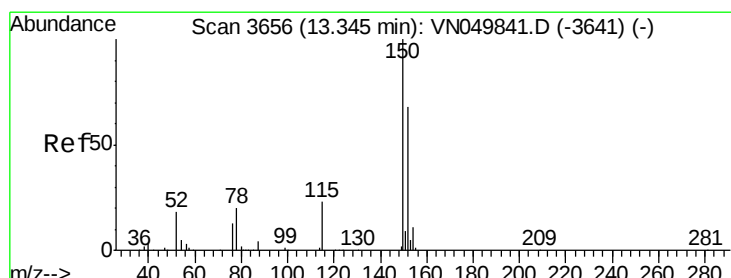
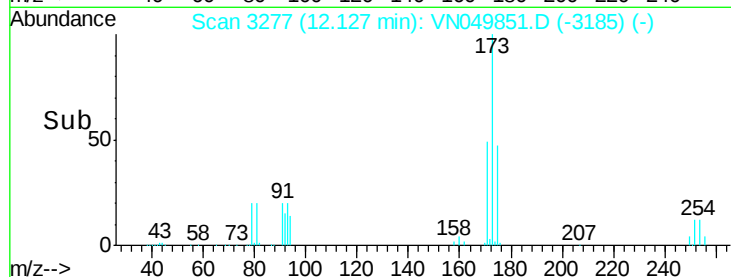
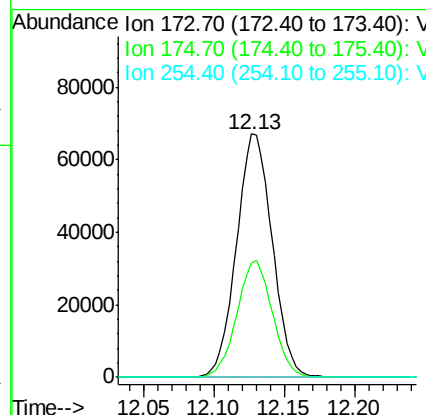
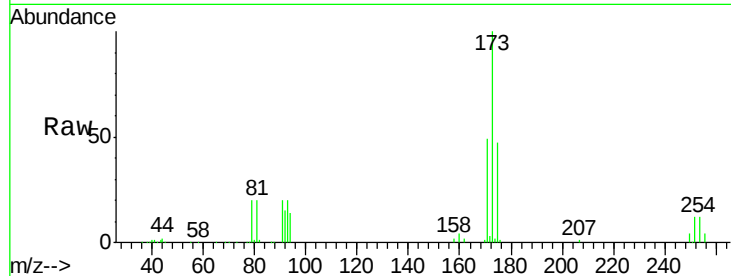
#71
Bromoform
Concen: 20.32 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
173	100		119365		
175	47.4	24.6	73.8		
254	0.0	0.2	0.2#		

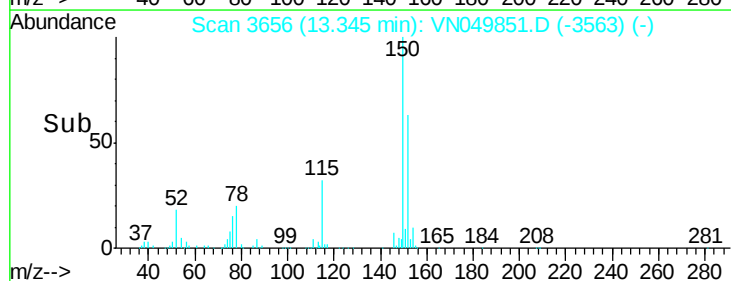
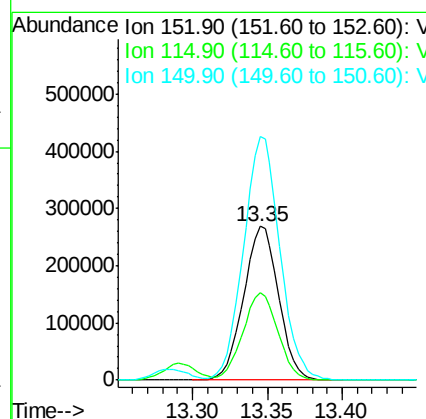
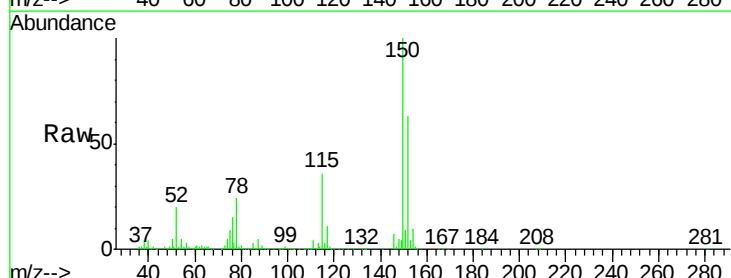
Manual Integrations
APPROVED

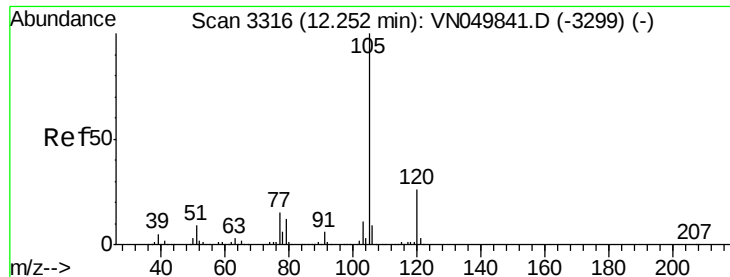
MMDadoda
7/18/2018 11:59:16 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100		436160		
115	57.2	28.1	84.2		
150	165.2	0.0	347.6		





#73

Isopropylbenzene

Concen: 21.86 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion: 105 Resp: 690495

Ion Ratio Lower Upper

105 100

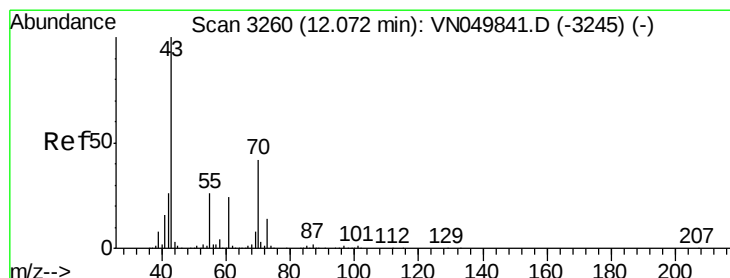
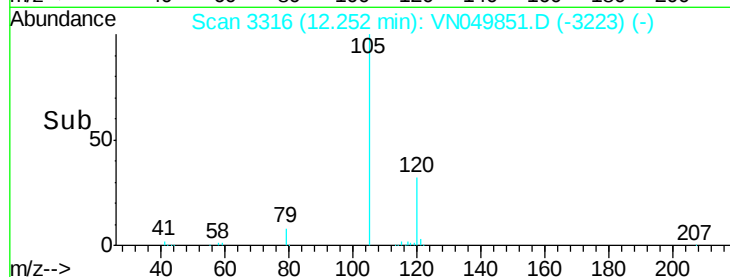
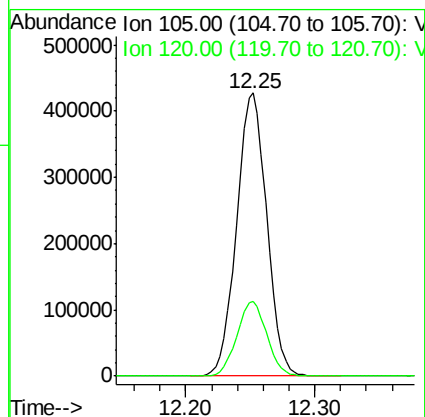
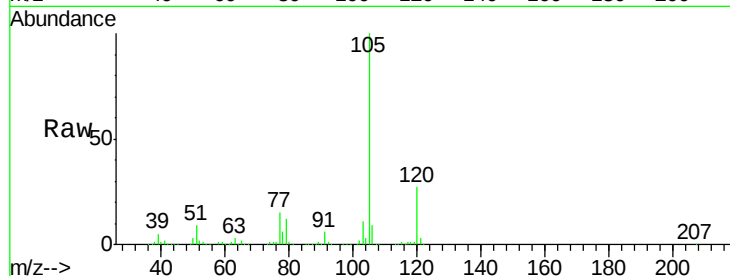
120 26.3 13.3 39.8

Manual Integrations

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MMDadoda

7/18/2018 11:59:16 AM



#74

N-ethyl acetate

Concen: 21.59 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Tgt Ion: 43 Resp: 225325

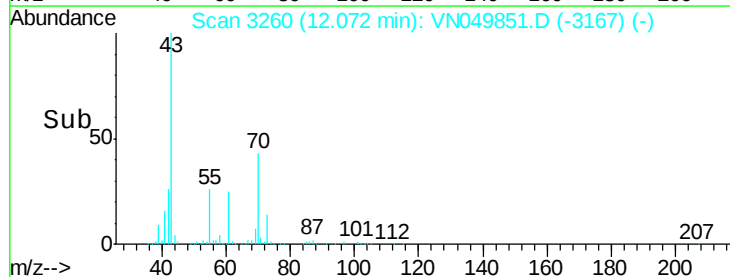
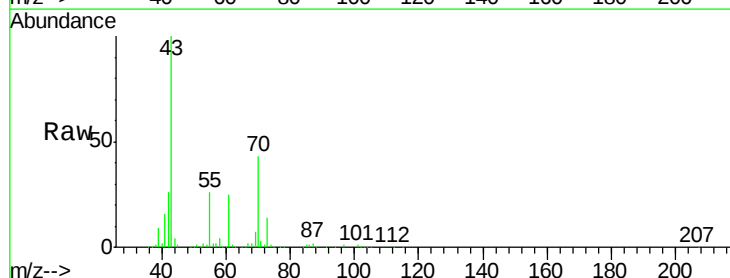
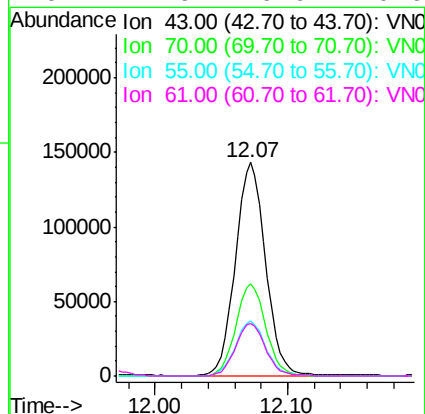
Ion Ratio Lower Upper

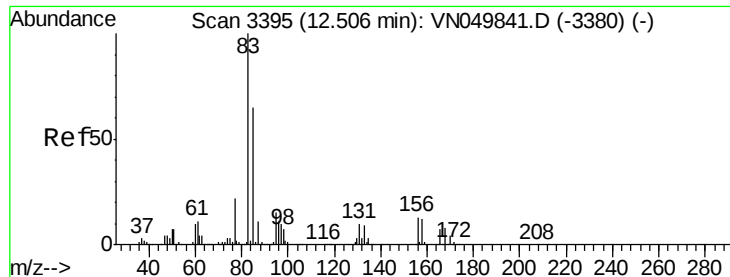
43 100

70 42.9 34.8 52.2

55 26.2 20.9 31.3

61 24.6 19.9 29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 20.02 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

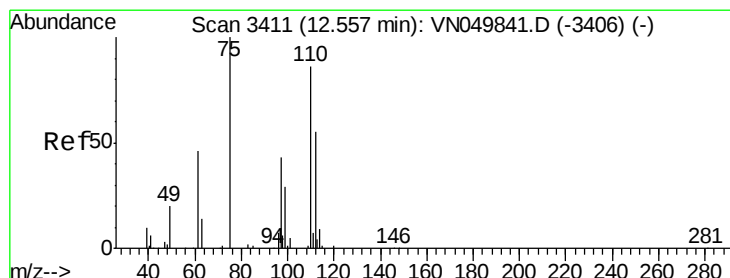
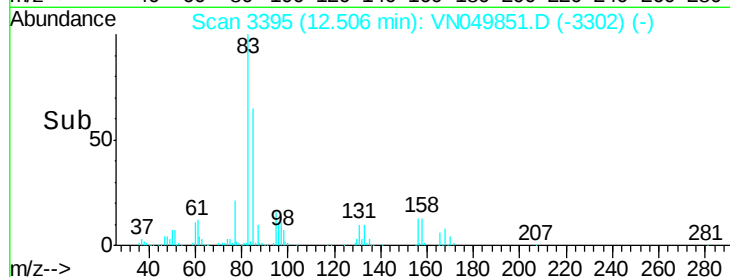
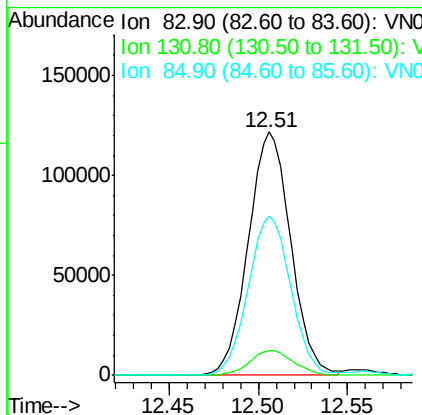
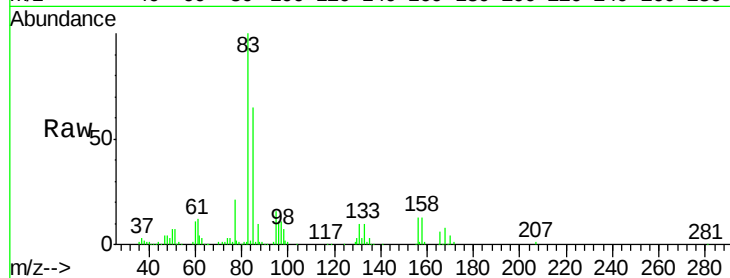
ClientSampleId :

VN0717WBSD01

Tot Ion:	83	Resp:	202773
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.2	15.6
85	65.5	32.5	97.4

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 20.74 ug/l m

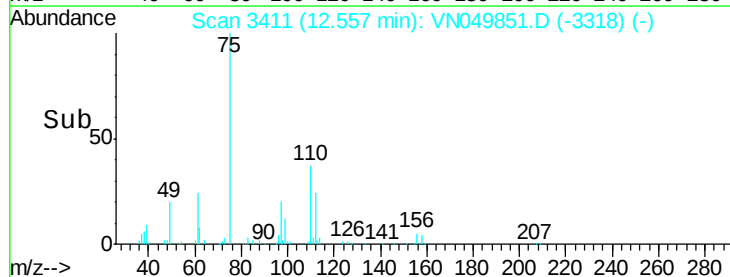
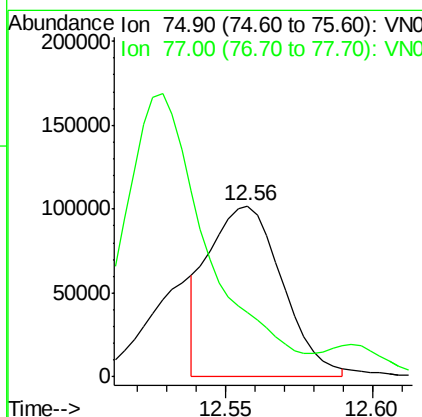
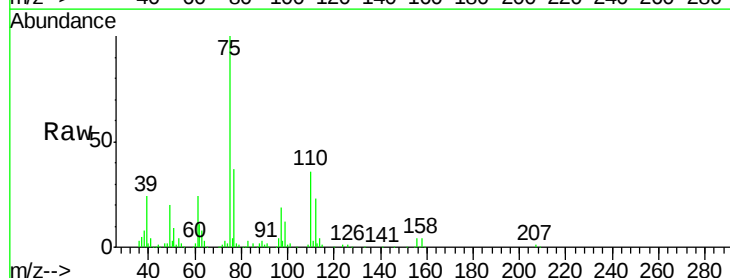
RT: 12.56 min Scan# 3411

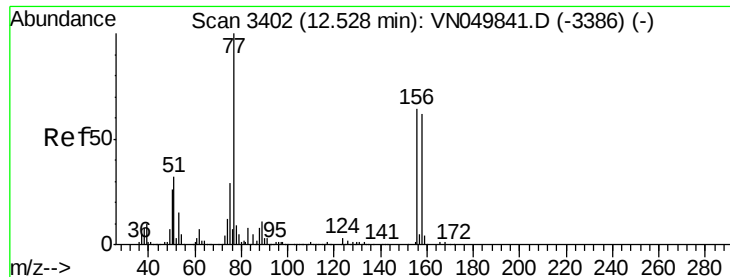
Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Tgt Ion:	75	Resp:	177013
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.07 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

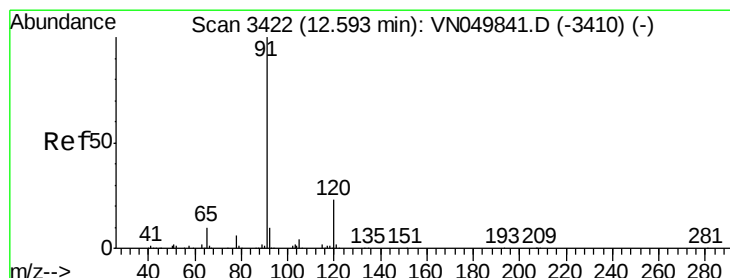
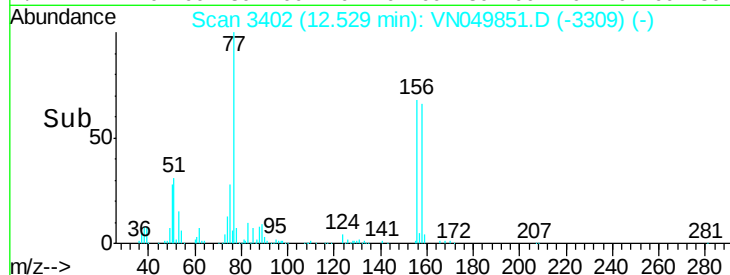
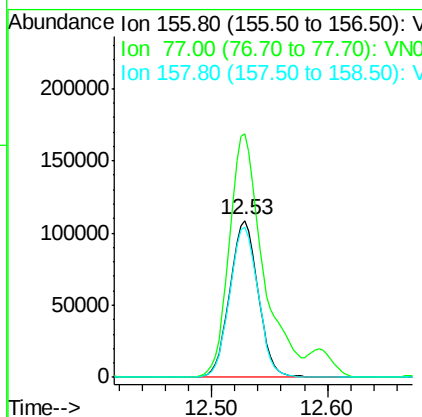
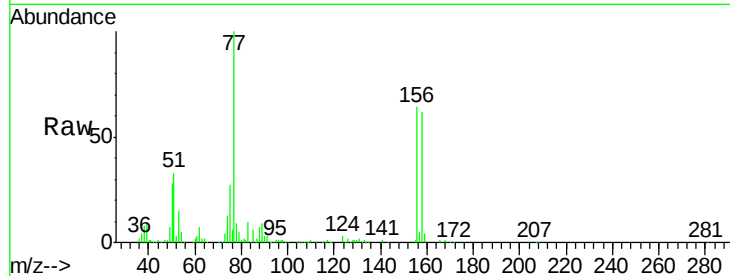
ClientSampleId :

VN0717WBSD01

Tot Ion:	156	Resp:	182454
Ion Ratio	Lower	Upper	
156	100		
77	186.5	90.2	270.6
158	96.6	49.1	147.3

Manual Integrations
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#78

n-propylbenzene

Concen: 21.98 ug/l

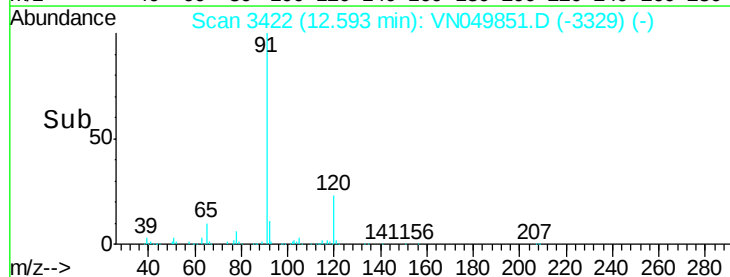
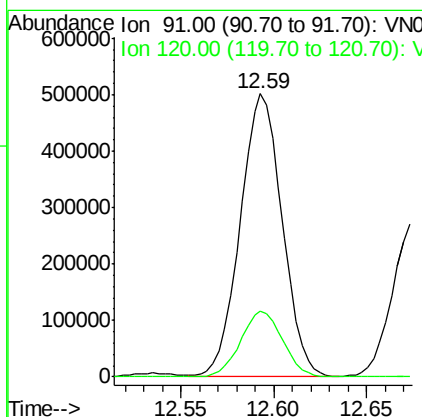
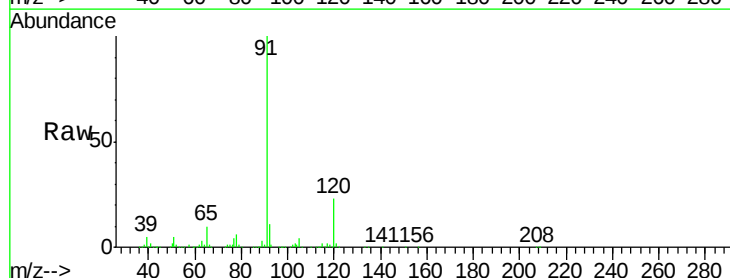
RT: 12.59 min Scan# 3422

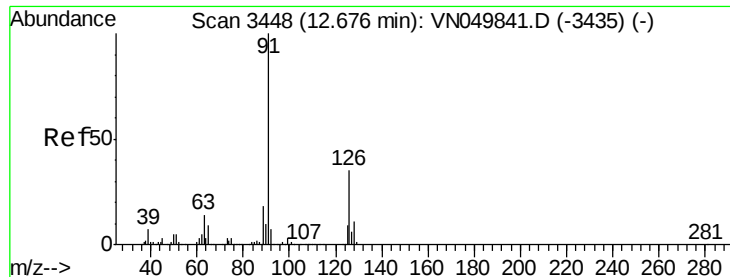
Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Tgt Ion:	91	Resp:	781085
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.5	34.4





#79

2-Chlorotoluene

Concen: 21.76 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion: 91 Resp: 477486

Ion Ratio Lower Upper

91 100

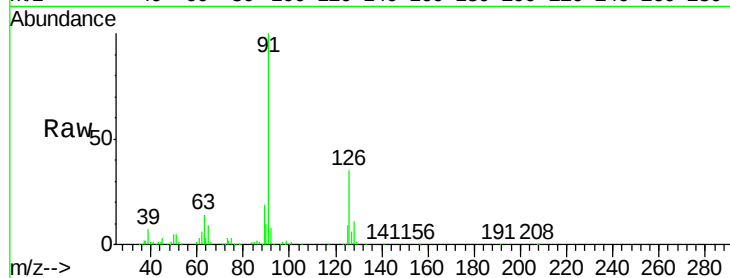
126 34.9 17.5 52.5

Manual Integrations

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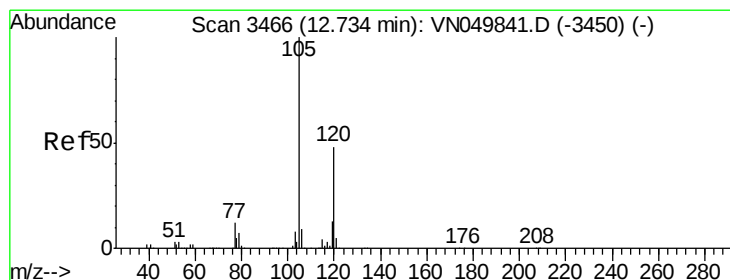
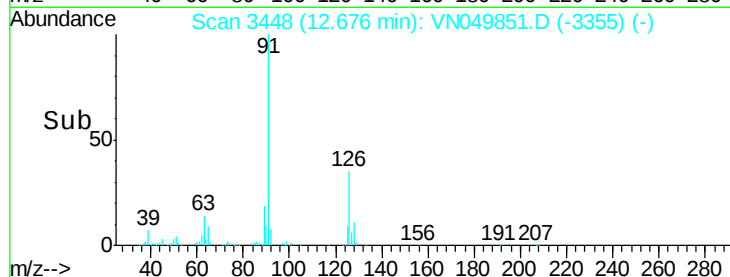
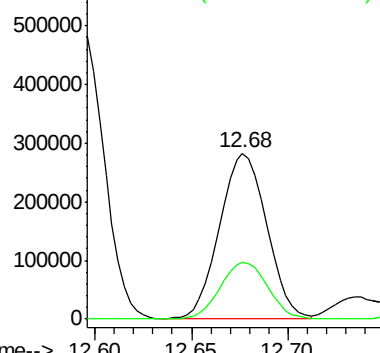
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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 23.15 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049851.D

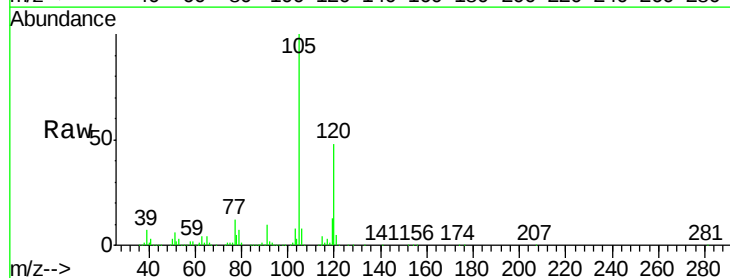
Acq: 17 Jul 2018 17:26

Tgt Ion: 105 Resp: 573017

Ion Ratio Lower Upper

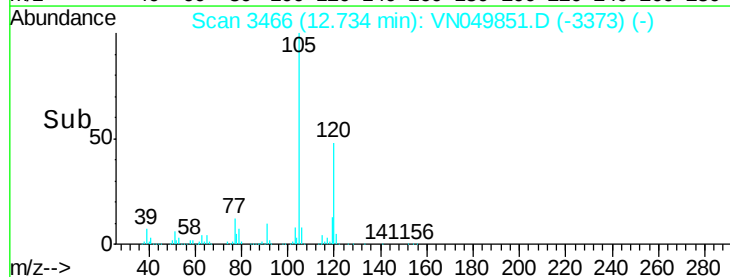
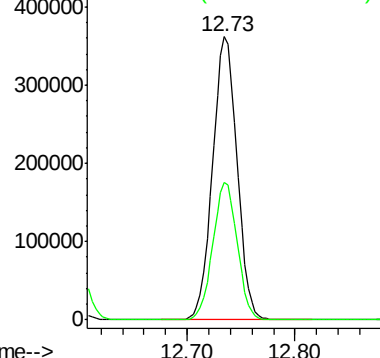
105 100

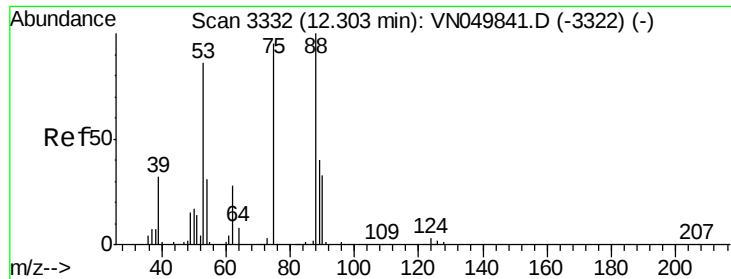
120 48.3 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





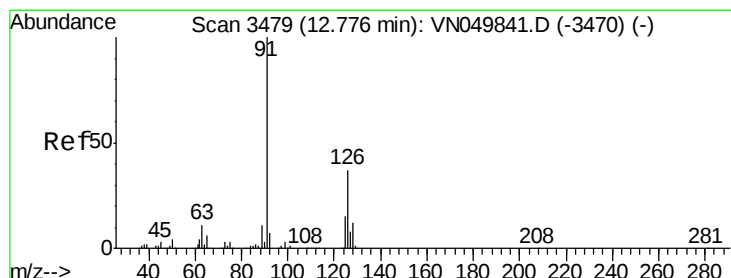
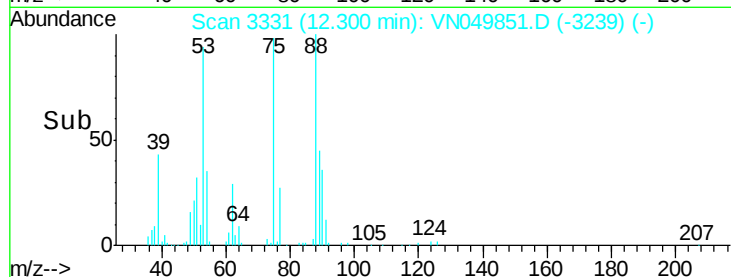
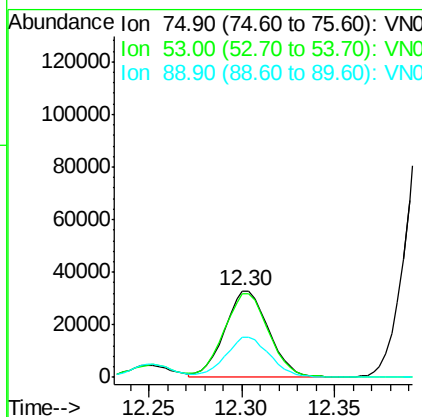
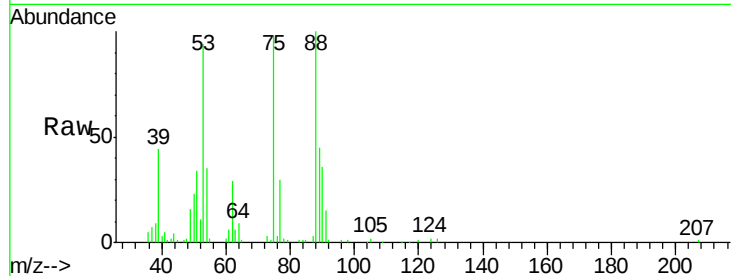
#81
trans-1,4-Dichloro-2-butene
Concen: 20.85 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	98.1	73.9	110.9
89	46.6	35.9	53.9

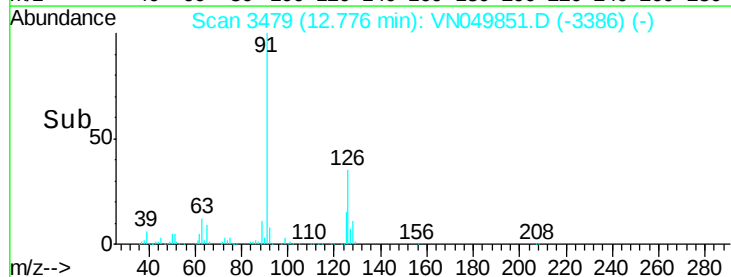
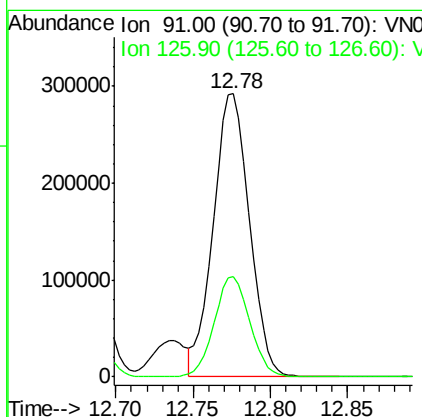
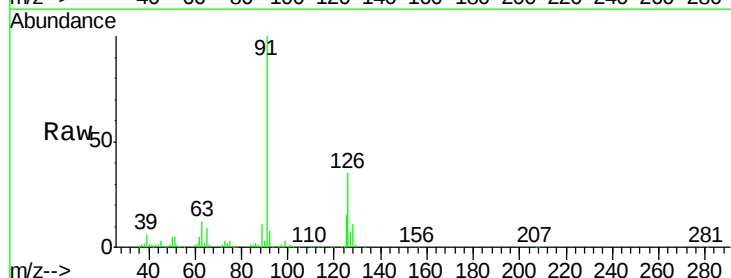
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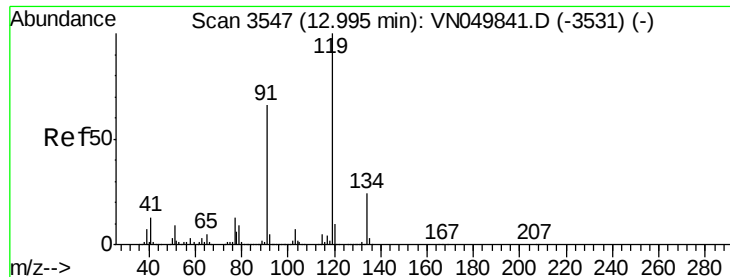
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#82
4-Chlorotoluene
Concen: 21.90 ug/l
RT: 12.78 min Scan# 3479
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.2	51.6





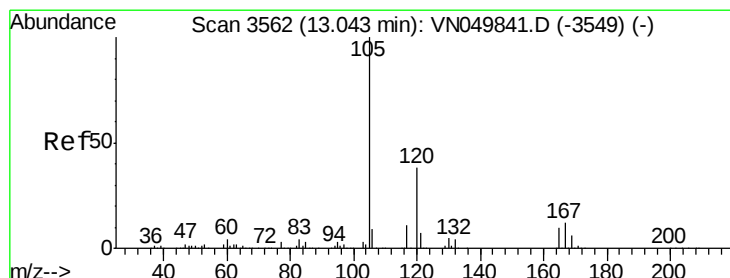
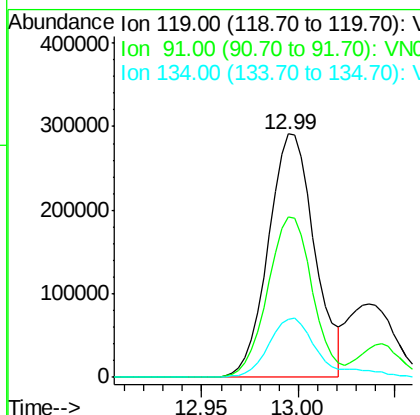
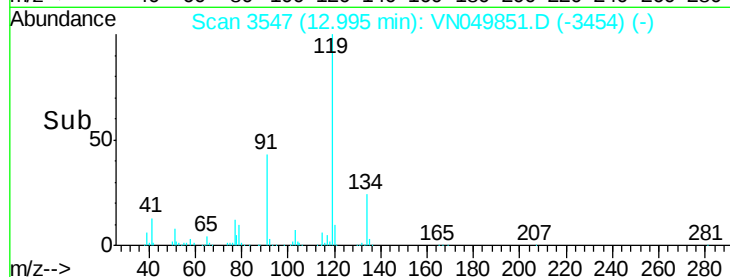
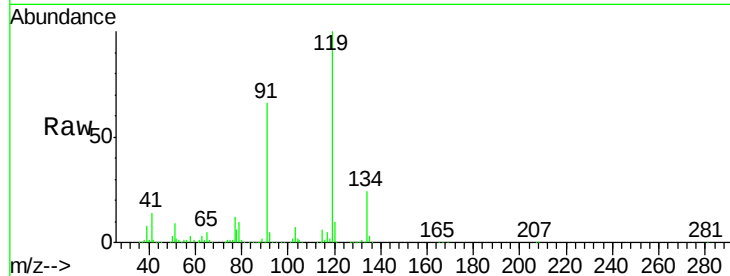
#83
 tert-Butylbenzene
 Concen: 22.33 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0717WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.2	32.0	96.2
134	26.5	12.8	38.4

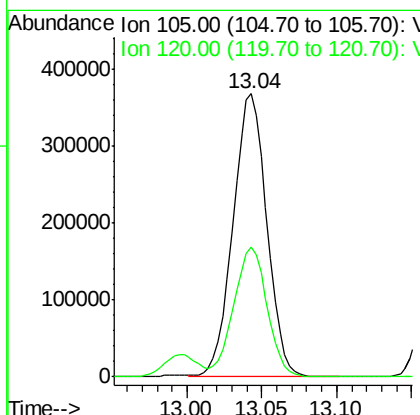
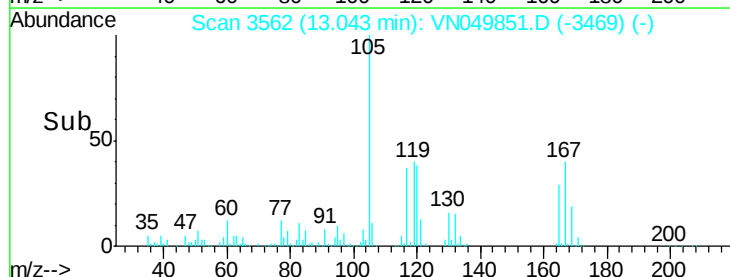
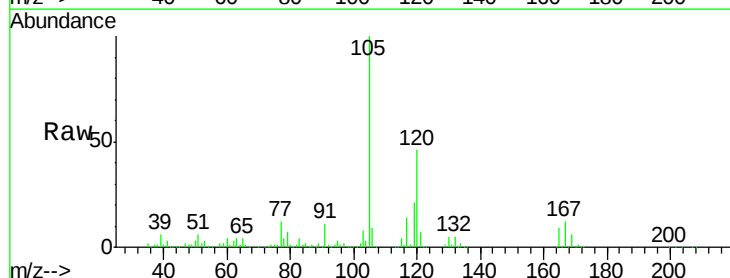
Manual Integrations
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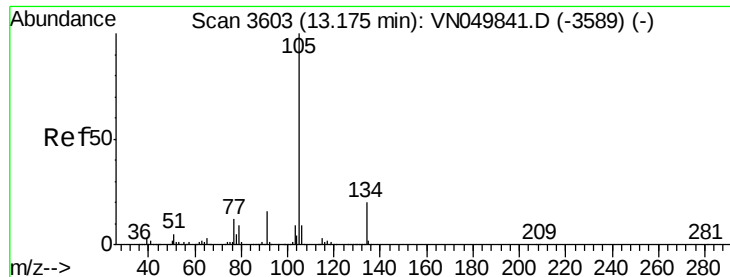
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#84
 1,2,4-Trimethylbenzene
 Concen: 22.88 ug/l
 RT: 13.04 min Scan# 3562
 Delta R.T. 0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.7	68.1





#85

sec-Butylbenzene

Concen: 22.41 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

ClientSampleId :

VN0717WBSD01

Tot Ion:105 Resp: 653931

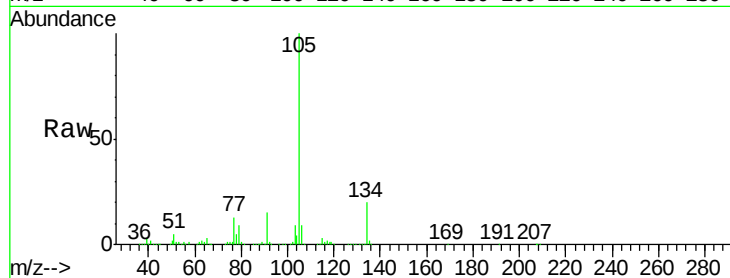
Ion Ratio Lower Upper

105 100

134 20.1 10.1 30.1

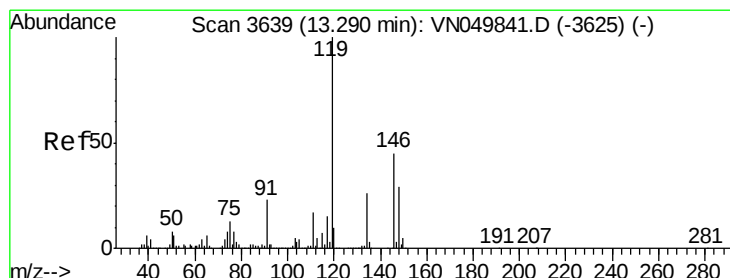
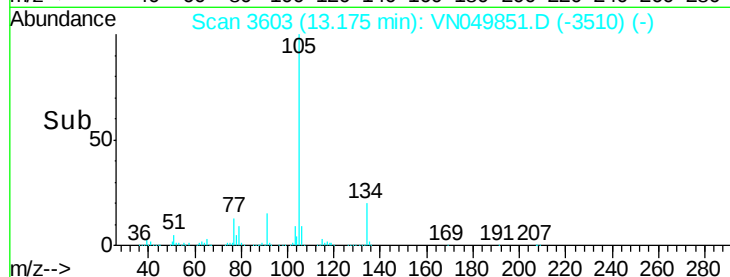
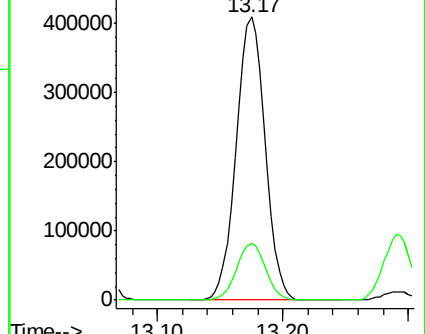
Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 22.66 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

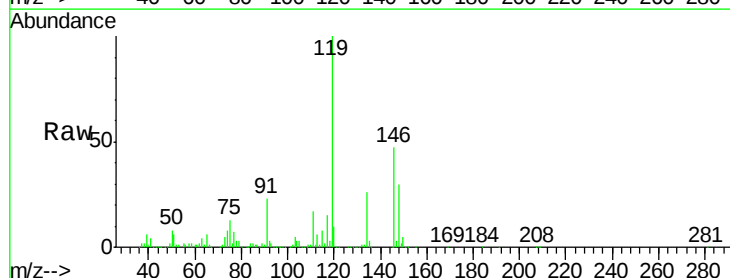
Tgt Ion:119 Resp: 559253

Ion Ratio Lower Upper

119 100

134 26.1 13.3 39.9

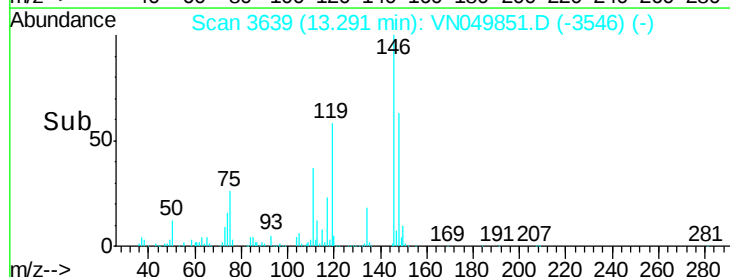
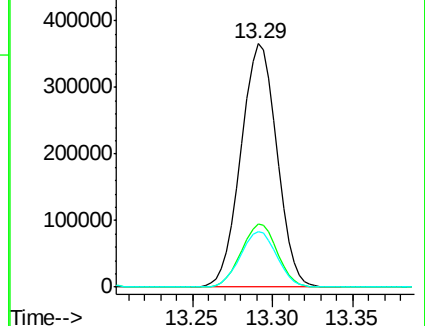
91 23.2 11.4 34.1

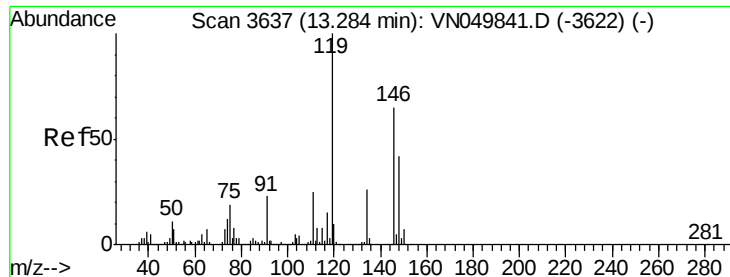


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





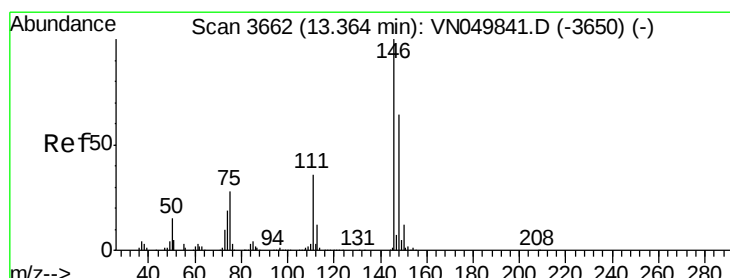
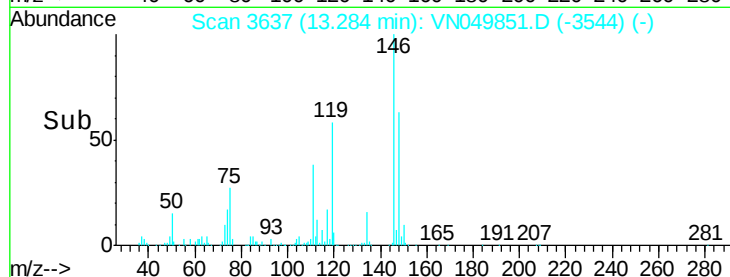
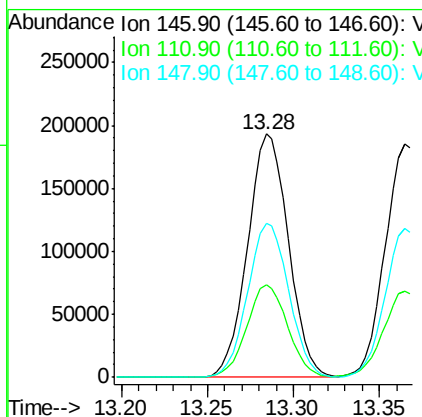
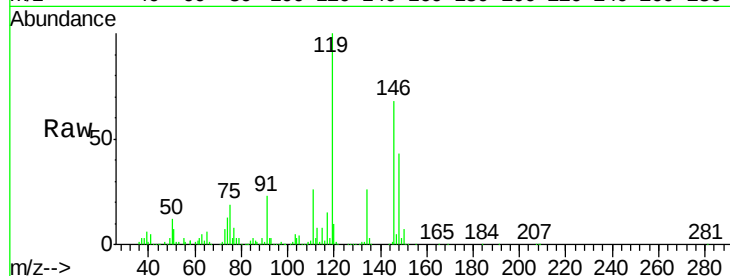
#87
 1,3-Dichlorobenzene
 Concen: 21.38 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0717WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.0	57.0
148	63.6	32.5	97.5

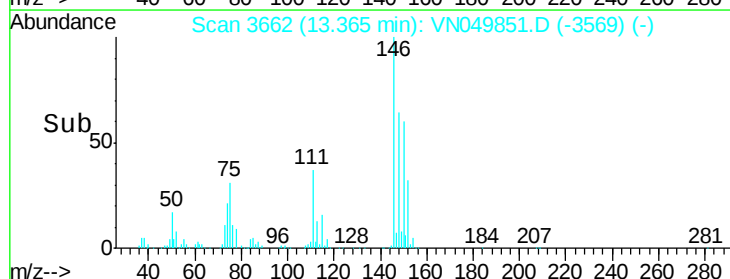
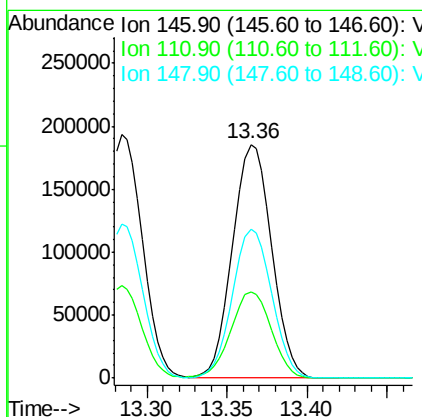
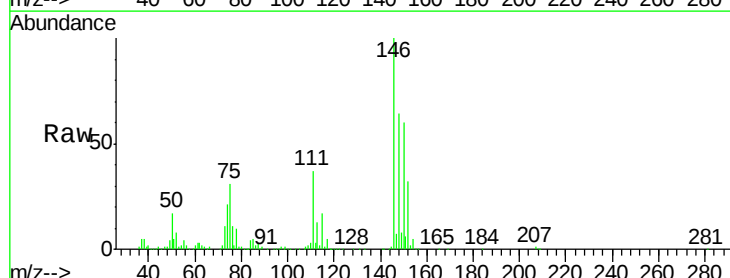
Manual Integrations
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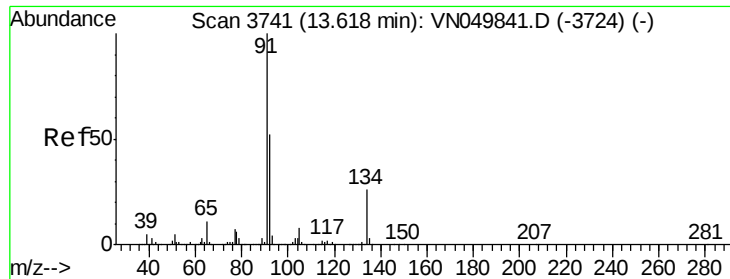
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#88
 1,4-Dichlorobenzene
 Concen: 21.17 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	18.9	56.5
148	64.1	32.1	96.3





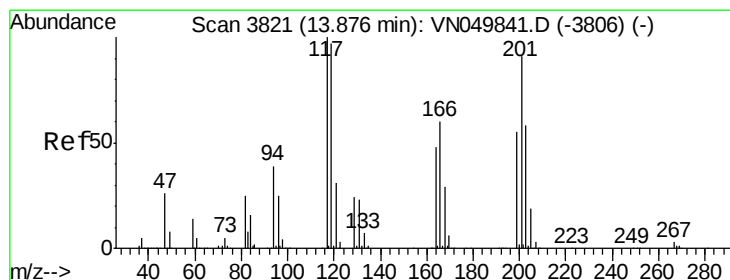
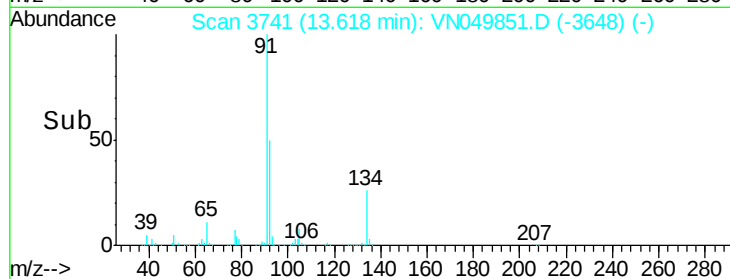
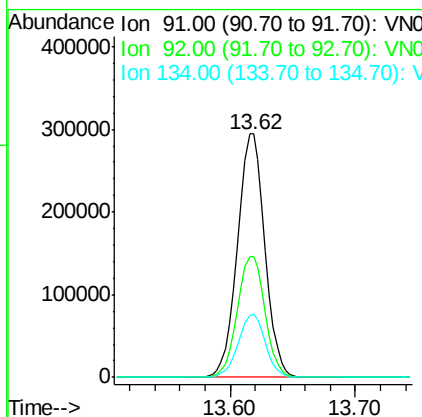
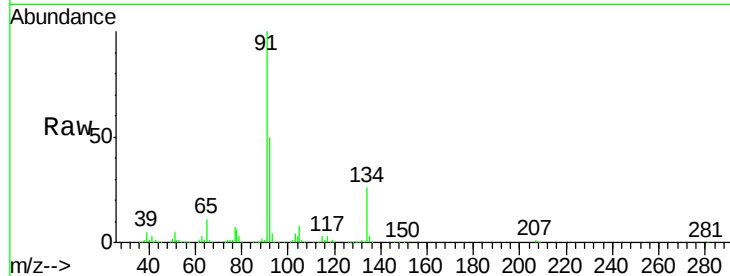
#89
n-Butylbenzene
Concen: 21.98 ug/l
RT: 13.62 min Scan# 3741
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Instrument :
MSVOA_N
ClientSampleId :
VN0717WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.4	25.8	77.3
134	25.8	13.0	38.9

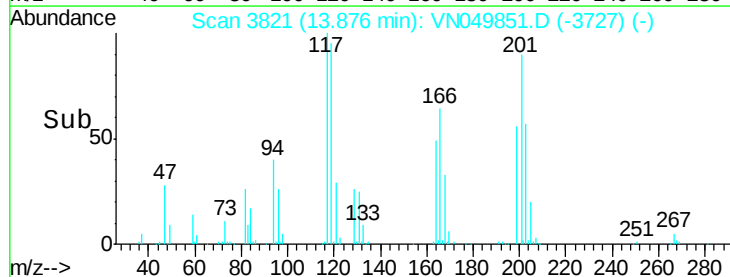
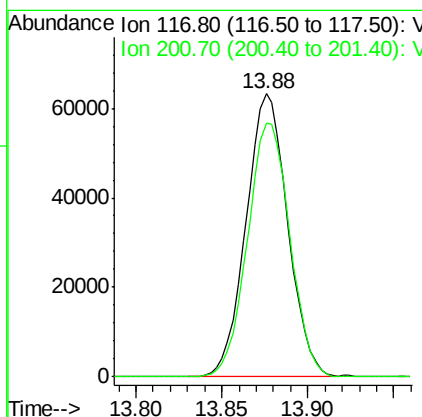
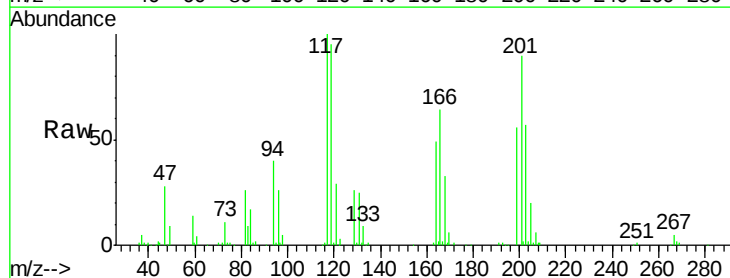
Manual Integrations
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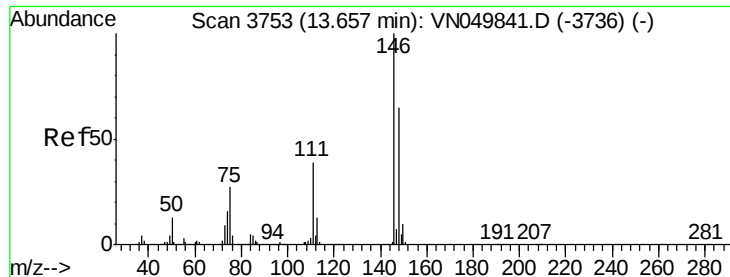
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#90
Hexachloroethane
Concen: 21.10 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN049851.D
Acq: 17 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.2	45.3	135.8





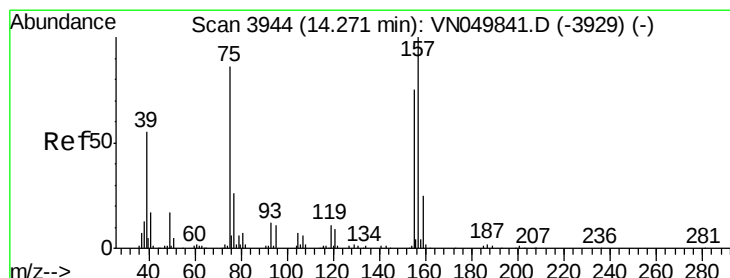
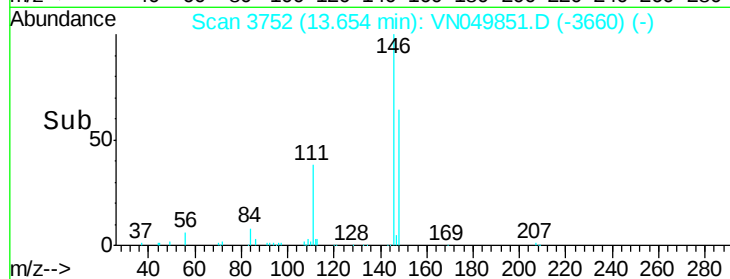
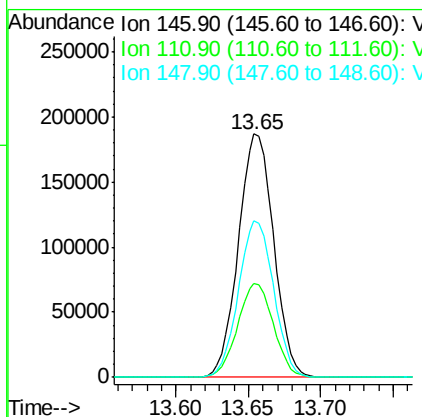
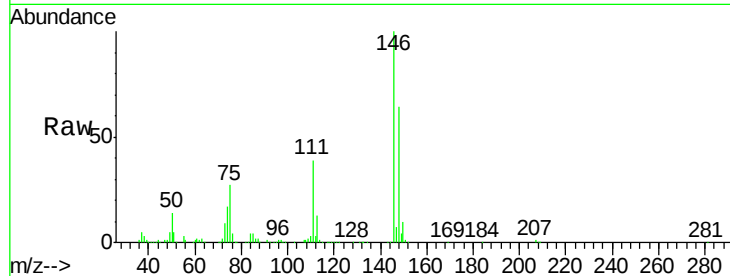
#91
 1,2-Dichlorobenzene
 Concen: 20.95 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0717WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.7	59.1
148	64.1	32.0	96.2

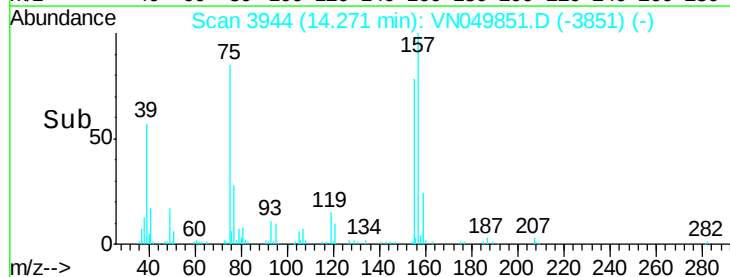
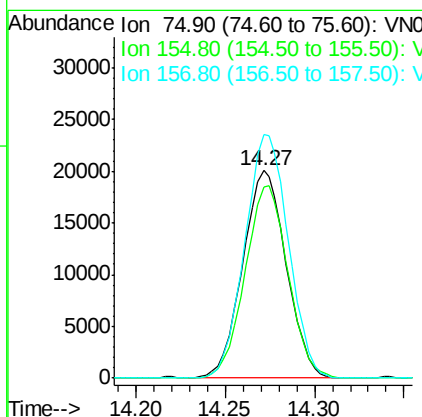
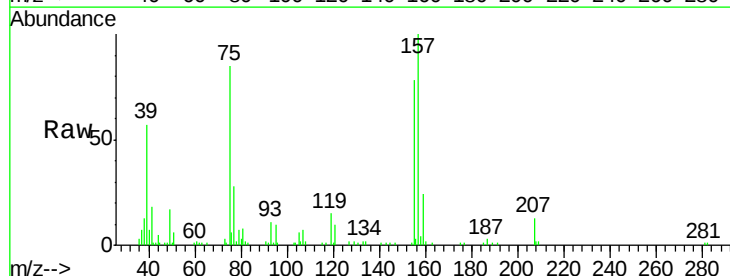
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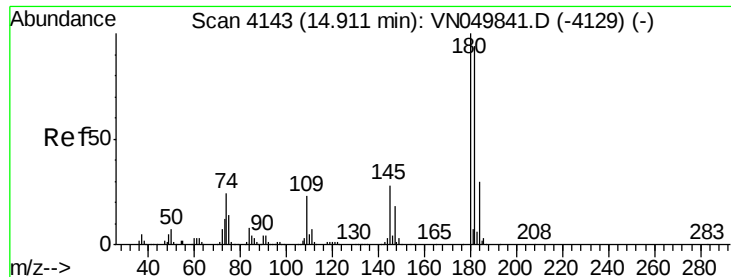
MMDadoda
 7/18/2018 11:59:16 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.66 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.4	45.7	137.1
157	117.4	56.9	170.7





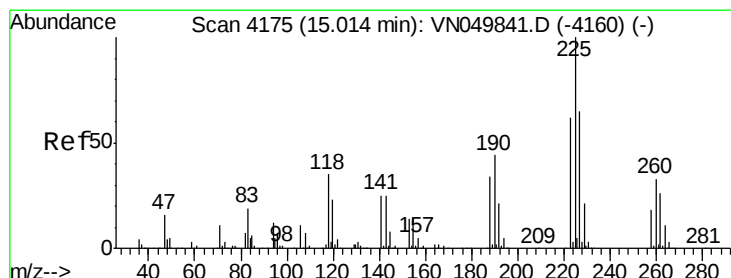
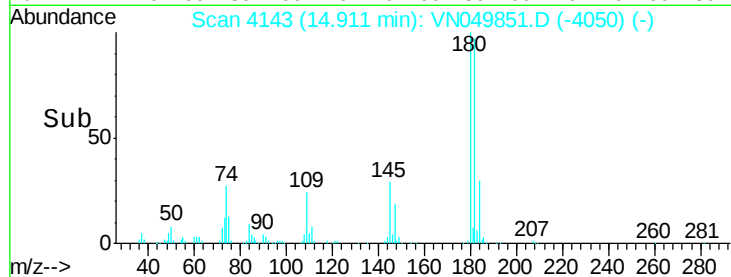
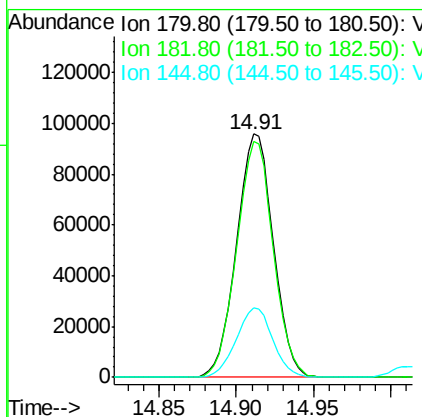
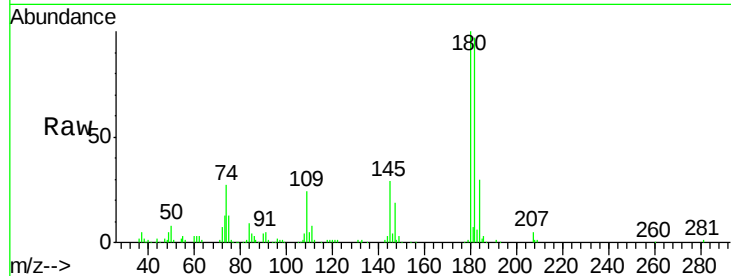
#93
 1,2,4-Trichlorobenzene
 Concen: 23.50 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0717WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	158325		
182	96.5	47.3	141.9	
145	28.4	14.4	43.0	

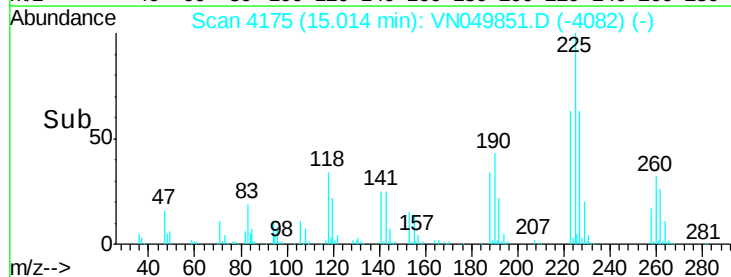
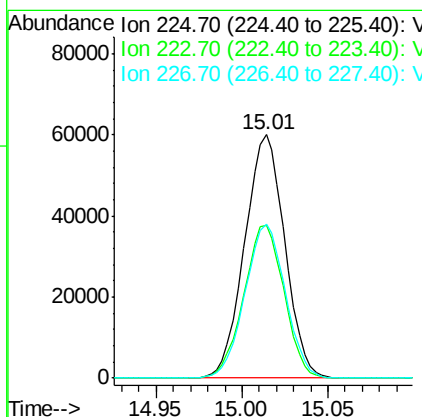
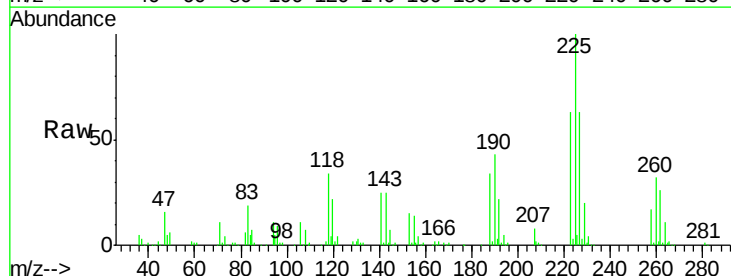
Manual Integrations
 APPROVED

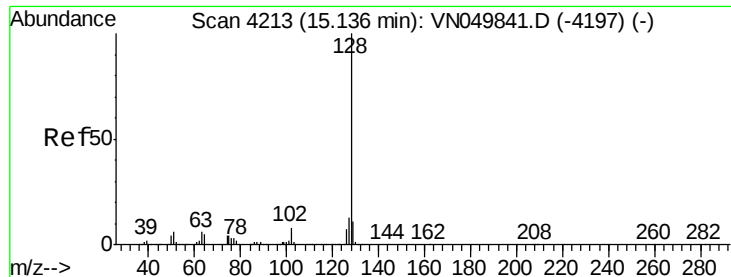
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 7/18/2018 11:59:16 AM



#94
 Hexachlorobutadiene
 Concen: 20.51 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN049851.D
 Acq: 17 Jul 2018 17:26

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	96963		
223	62.9	30.9	92.7	
227	63.5	31.8	95.4	





#95

Naphthalene

Concen: 23.10 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Instrument :

MSVOA_N

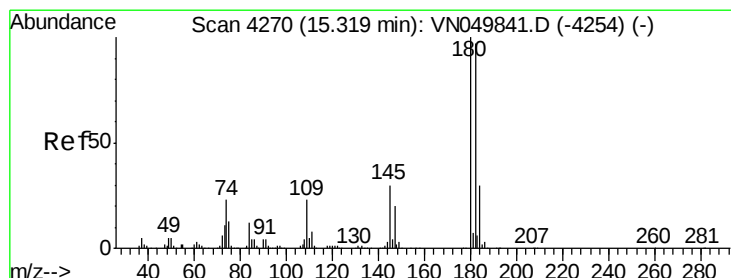
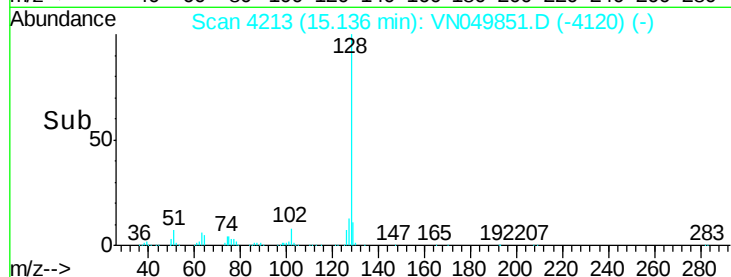
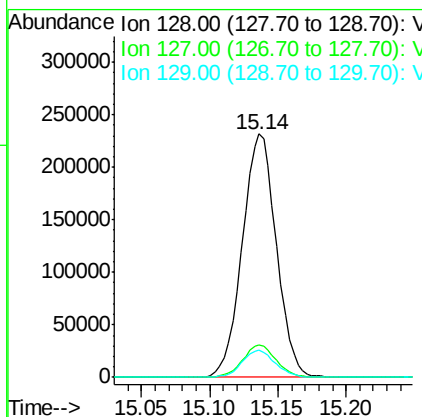
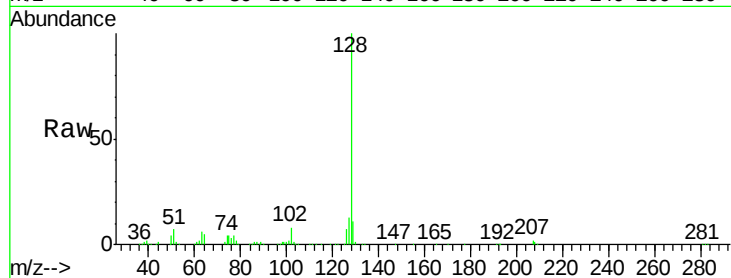
ClientSampleId :

VN0717WBSD01

Tot Ion:	128	Resp:	400505
Ion Ratio		Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.8	8.6	13.0

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 23.55 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049851.D

Acq: 17 Jul 2018 17:26

Tgt Ion:	180	Resp:	167804
Ion Ratio		Lower	Upper
180	100		
182	94.6	47.4	142.2
145	30.2	15.2	45.6

