

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062618\
 Data File : VN049545.D
 Acq On : 26 Jun 2018 11:31
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 6/27/2018 5:29:43 PM

Quant Time: Jun 27 01:10:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1709818	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	2562007	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2296815	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	1256991	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	1046957	46.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.34%	
35) Dibromofluoromethane	7.59	113	915905	44.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.38%	
50) Toluene-d8	10.09	98	3655383	46.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.64%	
62) 4-Bromofluorobenzene	12.40	95	1275616	48.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.76%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	787373	40.01	ug/l	99
3) Chloromethane	2.05	50	1008783	39.70	ug/l	98
4) Vinyl Chloride	2.18	62	1117521	41.38	ug/l	100
5) Bromomethane	2.56	94	538808	37.95	ug/l	96
6) Chloroethane	2.70	64	700573	43.50	ug/l	98
7) Trichlorofluoromethane	3.02	101	1367751	40.59	ug/l	100
8) Diethyl Ether	3.40	74	547560	46.55	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.75	101	993389	46.49	ug/l	92
10) Methyl Iodide	3.94	142	1050209	47.21	ug/l	91
11) Tert butyl alcohol	4.78	59	295145	221.74	ug/l	97
12) 1,1-Dichloroethene	3.73	96	903052	46.06	ug/l	89
13) Acrolein	3.60	56	247112	177.04	ug/l	99
14) Allyl chloride	4.32	41	1267264	40.94	ug/l	89
15) Acrylonitrile	4.99	53	1513166	227.35	ug/l	99
16) Acetone	3.81	43	938597	170.46	ug/l	93
17) Carbon Disulfide	4.05	76	2503415	40.74	ug/l	99
18) Methyl Acetate	4.32	43	1347748	80.27	ug/l	95
19) Methyl tert-butyl Ether	5.04	73	2489606	49.81	ug/l	98
20) Methylene Chloride	4.55	84	1108262	48.19	ug/l	91
21) trans-1,2-Dichloroethene	5.03	96	962080	46.35	ug/l	93
22) Diisopropyl ether	5.95	45	3157680	51.08	ug/l	97
23) Vinyl Acetate	5.89	43	9662183	239.77	ug/l	96
24) 1,1-Dichloroethane	5.84	63	1868037	47.21	ug/l	98
25) 2-Butanone	6.83	43	1566572	211.88	ug/l	95
26) 2,2-Dichloropropane	6.82	77	1561310	48.86	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	1125291	48.77	ug/l	92
28) Bromochloromethane	7.19	49	835927	47.66	ug/l #	83
29) Tetrahydrofuran	7.21	42	1103179	231.79	ug/l	94
30) Chloroform	7.37	83	1880168	47.75	ug/l	99
31) Cyclohexane	7.65	56	1663501	49.60	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	1610690	47.94	ug/l	97
36) 1,1-Dichloropropene	7.79	75	1452724	49.47	ug/l	98
37) Ethyl Acetate	6.92	43	772555	48.40	ug/l	96
38) Carbon Tetrachloride	7.77	117	1393481	45.84	ug/l	98

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Quant Time: Jun 27 01:10:08 2018
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 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1639550	52.02	ug/l	96
40) Benzene	8.04	78	4281431	47.56	ug/l	98
41) Methacrylonitrile	7.17	41	436398	50.57	ug/l #	100
42) 1,2-Dichloroethane	8.12	62	1306590	46.98	ug/l	96
43) Isopropyl Acetate	8.16	43	2536944	83.18	ug/l #	96
44) Trichloroethene	8.83	130	1260283	53.01	ug/l	94
45) 1,2-Dichloropropane	9.12	63	1137595	48.26	ug/l	100
46) Dibromomethane	9.21	93	643365	47.07	ug/l	92
47) Bromodichloromethane	9.40	83	1437753	47.87	ug/l	97
48) Methyl methacrylate	9.20	41	730420	50.86	ug/l	87
49) 1,4-Dioxane	9.20	88	177827	897.08	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	3787459	236.94	ug/l	94
52) Toluene	10.16	92	2662528	50.39	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	1446734	50.35	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	1700119	50.11	ug/l	90
55) 1,1,2-Trichloroethane	10.56	97	916375	46.52	ug/l	98
56) Ethyl methacrylate	10.43	69	1163103	51.19	ug/l #	86
57) 1,3-Dichloropropane	10.71	76	1554613	47.64	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	3098057	373.83	ug/l	94
59) 2-Hexanone	10.75	43	2429047	235.70	ug/l	93
60) Dibromochloromethane	10.90	129	1039624	47.29	ug/l	99
61) 1,2-Dibromoethane	11.01	107	902853	49.31	ug/l	99
64) Tetrachloroethene	10.63	164	1415467	60.14	ug/l	98
65) Chlorobenzene	11.43	112	2939334	49.68	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	1062217	47.71	ug/l	99
67) Ethyl Benzene	11.51	91	5114477	52.11	ug/l	99
68) m/p-Xylenes	11.62	106	3947332	107.17	ug/l	97
69) o-Xylene	11.95	106	1896616	53.46	ug/l	96
70) Styrene	11.96	104	3075203	54.95	ug/l	97
71) Bromoform	12.13	173	667462	46.31	ug/l #	99
73) Isopropylbenzene	12.25	105	5019486	45.48	ug/l	98
74) N-amyl acetate	12.07	43	1357829	50.23	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.50	83	993333	43.46	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	893549m	41.66	ug/l	
77) Bromobenzene	12.53	156	1257046	43.12	ug/l	91
78) n-propylbenzene	12.59	91	5877684	48.50	ug/l	98
79) 2-Chlorotoluene	12.68	91	3459731	45.06	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	4266769	49.19	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	308033	45.39	ug/l #	72
82) 4-Chlorotoluene	12.77	91	3591095	48.48	ug/l	97
83) tert-Butylbenzene	12.99	119	3547157	46.16	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	4380440	50.83	ug/l	98
85) sec-Butylbenzene	13.17	105	4859107	47.50	ug/l	99
86) p-Isopropyltoluene	13.29	119	4355471	50.96	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	2338218	48.76	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	2291374	48.21	ug/l	99
89) n-Butylbenzene	13.62	91	3762736	56.37	ug/l	97
90) Hexachloroethane	13.88	117	475638	28.68	ug/l	89
91) 1,2-Dichlorobenzene	13.65	146	2227523	47.36	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	161869	42.13	ug/l	81

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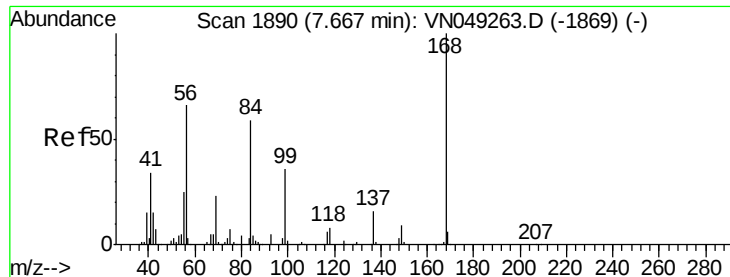
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1320735	60.20	ug/l	99
94) Hexachlorobutadiene	15.01	225	712256	51.87	ug/l	99
95) Naphthalene	15.14	128	2772953	68.34	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	1201323	56.52	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1709818

Ion Ratio Lower Upper

168 100

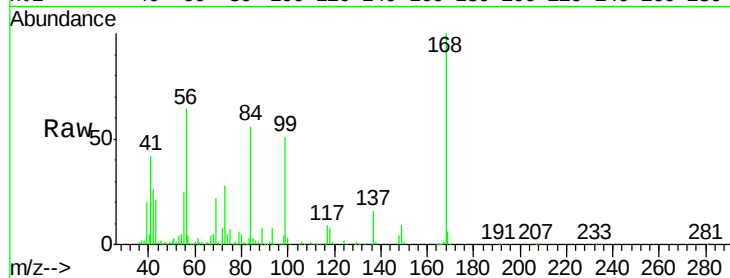
99 50.8 45.8 68.6

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

800000

600000

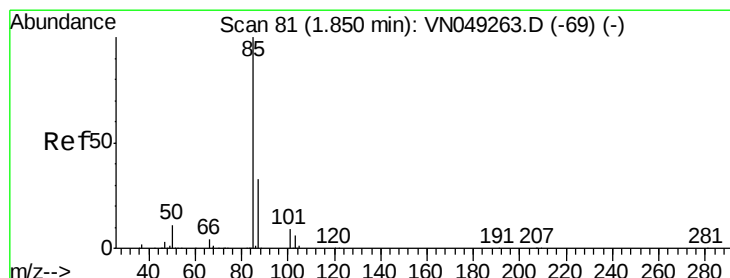
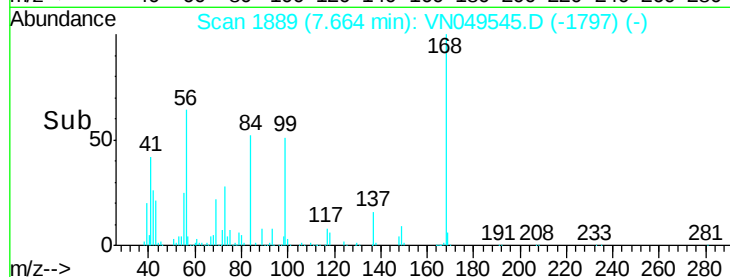
400000

200000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 40.01 ug/l

RT: 1.85 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN049545.D

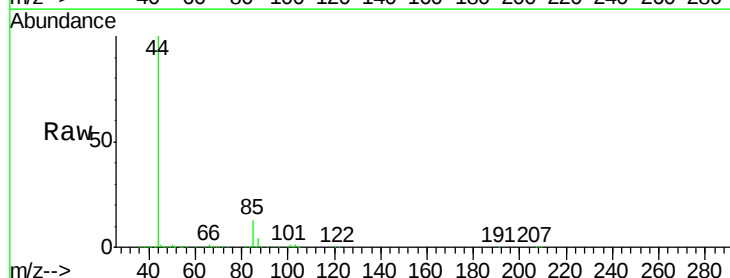
Acq: 26 Jun 2018 11:31

Tgt Ion: 85 Resp: 787373

Ion Ratio Lower Upper

85 100

87 32.8 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

600000

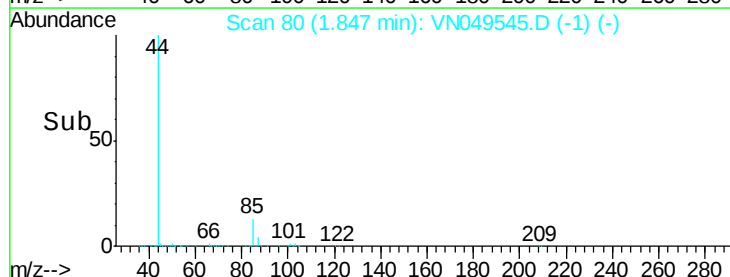
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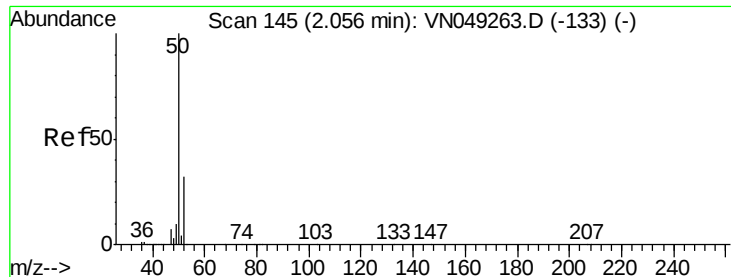
200000

0

1.80 1.90

Time-->





#3

Chloromethane

Concen: 39.70 ug/l

RT: 2.05 min Scan# 144

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 1008783

Ion Ratio Lower Upper

50 100

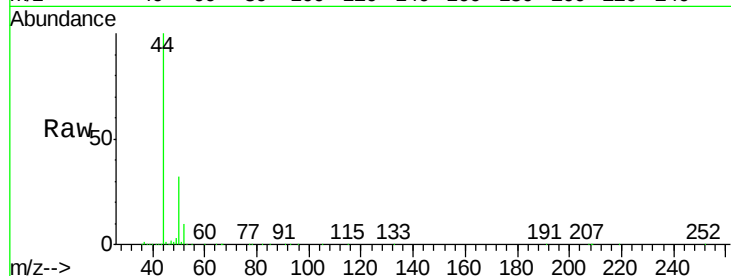
52 32.8 25.2 37.8

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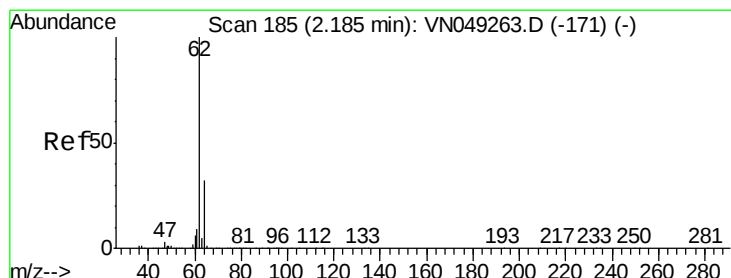
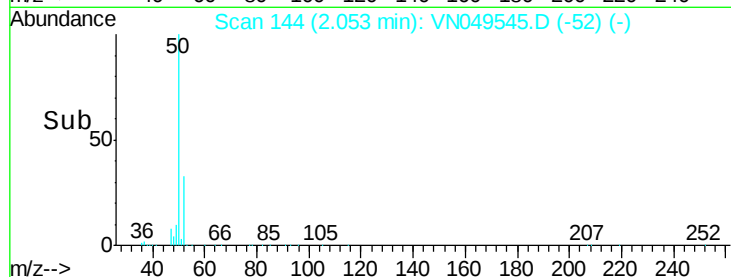
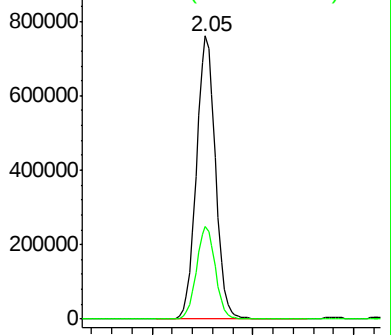
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 41.38 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN049545.D

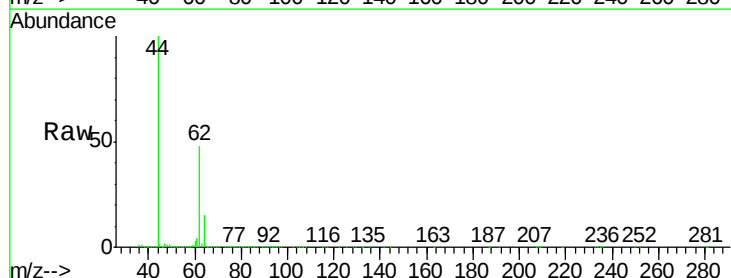
Acq: 26 Jun 2018 11:31

Tgt Ion: 62 Resp: 1117521

Ion Ratio Lower Upper

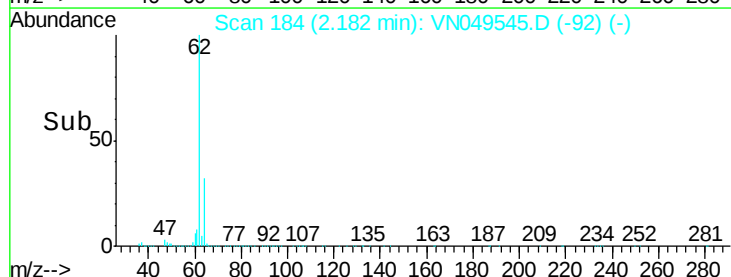
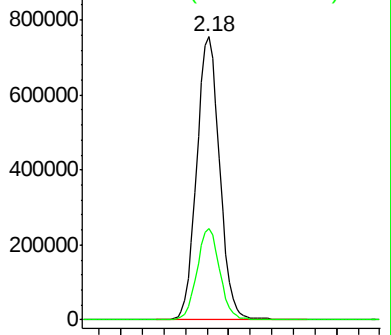
62 100

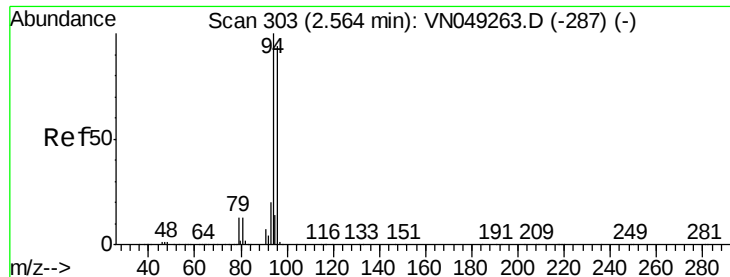
64 32.3 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 37.95 ug/l

RT: 2.56 min Scan# 302

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

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Tot Ion: 94 Resp: 538808

Ion Ratio Lower Upper

94 100

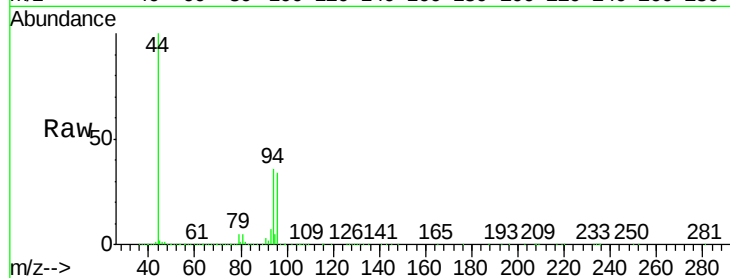
96 94.4 72.8 109.2

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

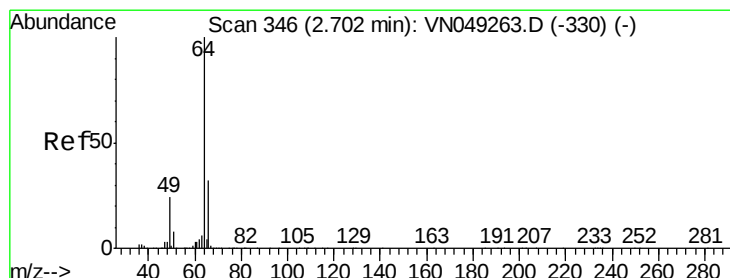
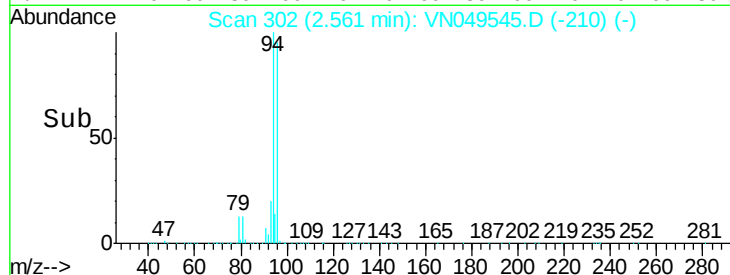
300000

200000

100000

0

Time-->



#6

Chloroethane

Concen: 43.50 ug/l

RT: 2.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VN049545.D

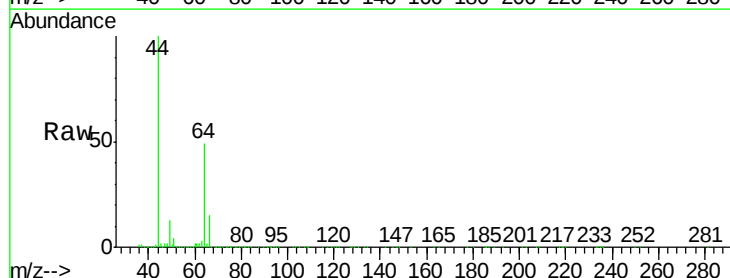
Acq: 26 Jun 2018 11:31

Tgt Ion: 64 Resp: 700573

Ion Ratio Lower Upper

64 100

66 31.0 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

400000

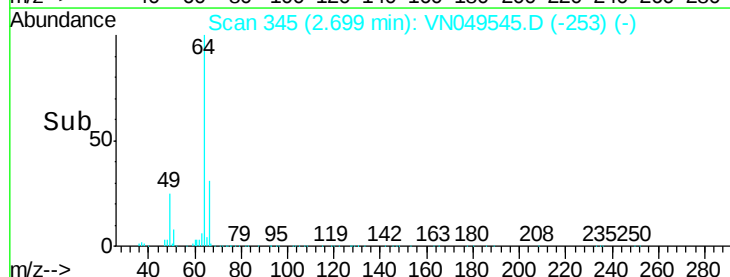
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0

Time-->





#7

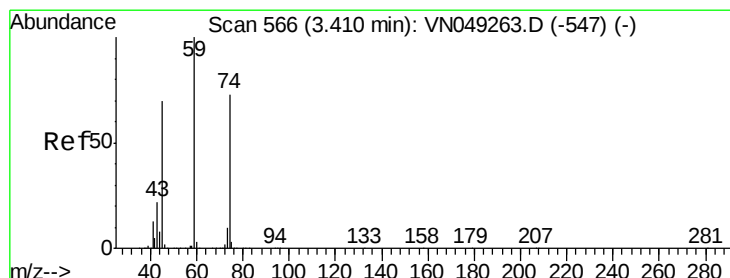
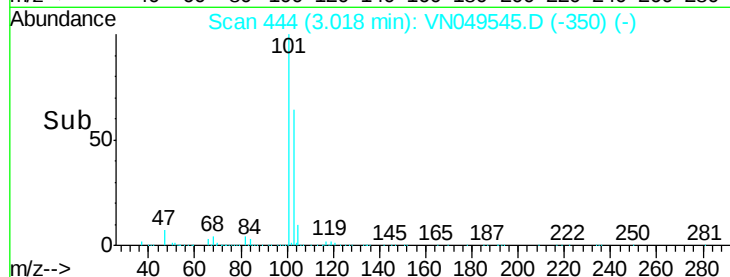
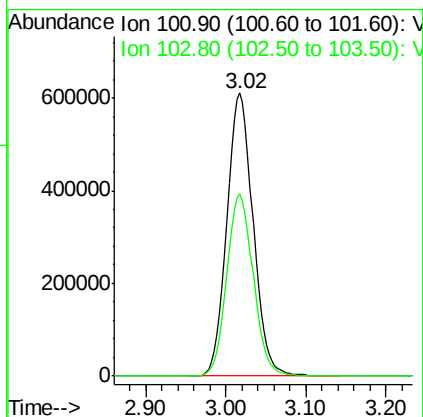
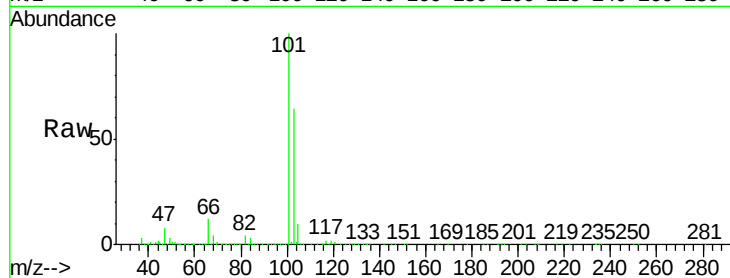
Trichlorofluoromethane
Concen: 40.59 ug/l
RT: 3.02 min Scan# 444
Delta R.T. 0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 1367751
Ion Ratio Lower Upper
101 100
103 64.3 51.7 77.5

Manual Integrations
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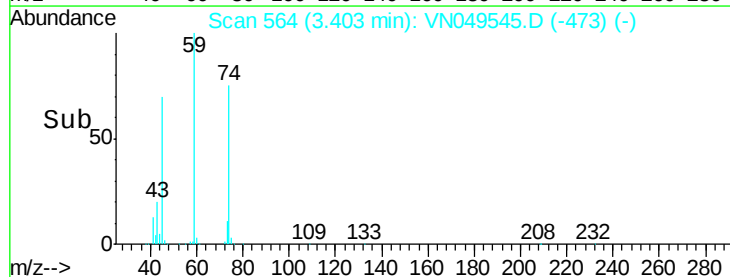
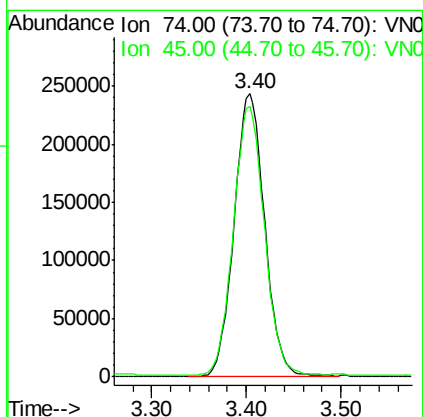
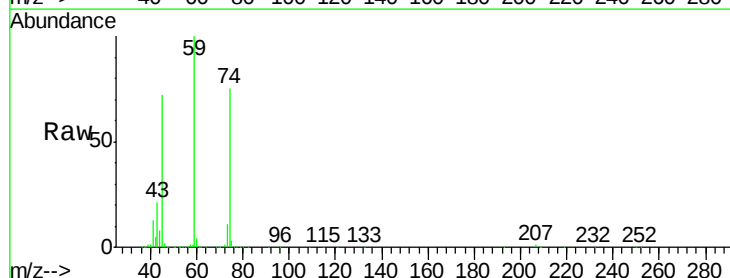
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#8

Diethyl Ether
Concen: 46.55 ug/l
RT: 3.40 min Scan# 564
Delta R.T. -0.01 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion: 74 Resp: 547560
Ion Ratio Lower Upper
74 100
45 96.0 51.9 155.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.49 ug/l

RT: 3.75 min Scan# 671

Delta R.T. -0.01 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

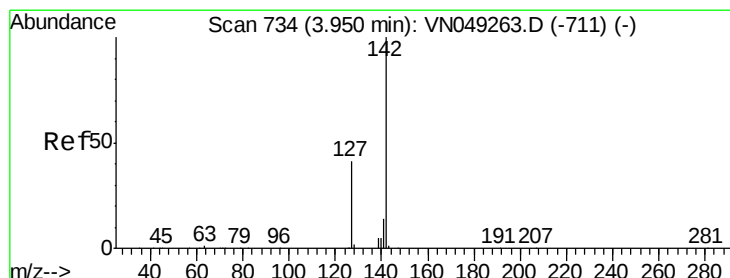
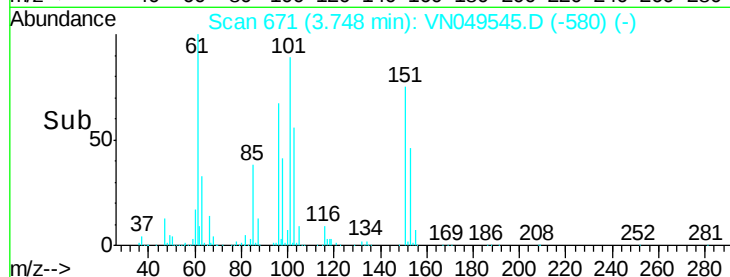
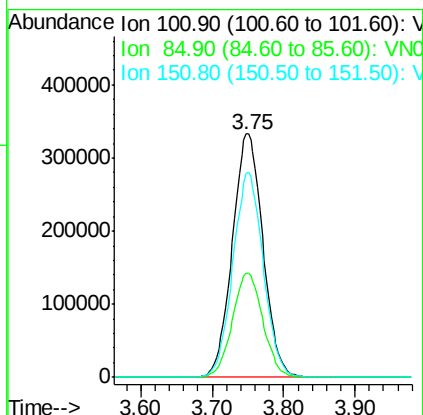
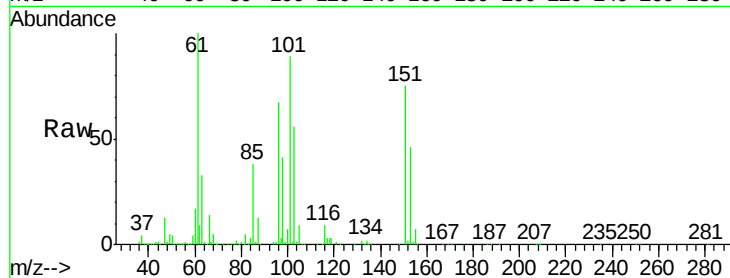
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	993389
Ion Ratio	Lower	Upper	
101	100		
85	42.6	37.6	56.4
151	83.8	61.1	91.7

Manual Integrations
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#10

Methyl Iodide

Concen: 47.21 ug/l

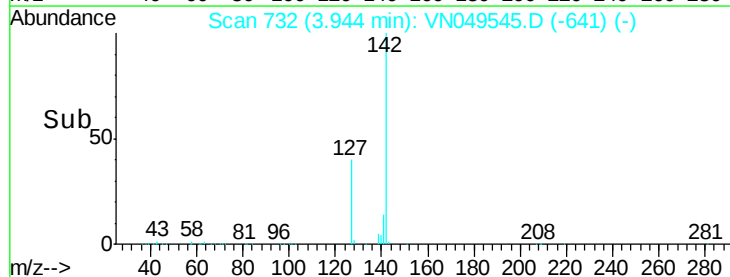
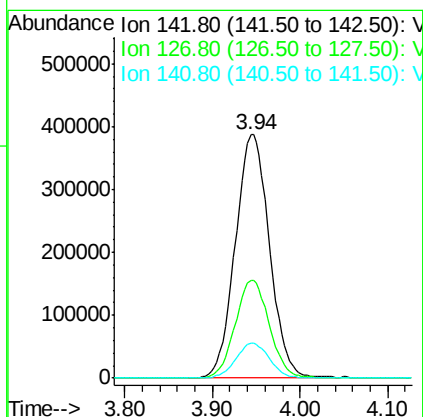
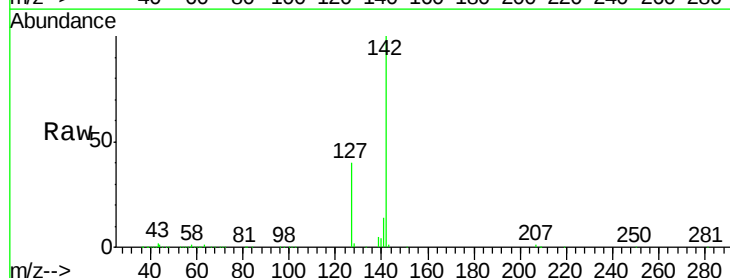
RT: 3.94 min Scan# 732

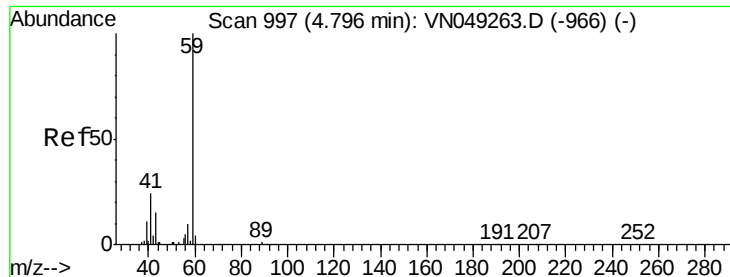
Delta R.T. -0.01 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Tgt Ion:	142	Resp:	1050209
Ion Ratio	Lower	Upper	
142	100		
127	40.3	38.2	57.4
141	14.2	11.9	17.9





#11

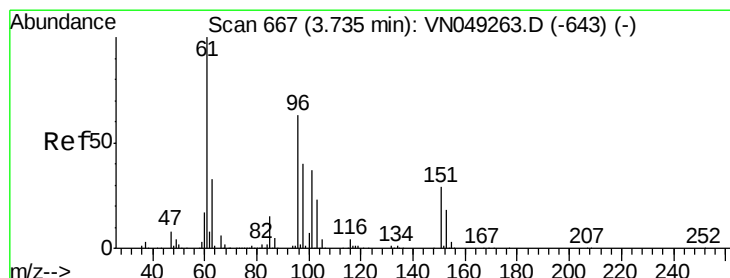
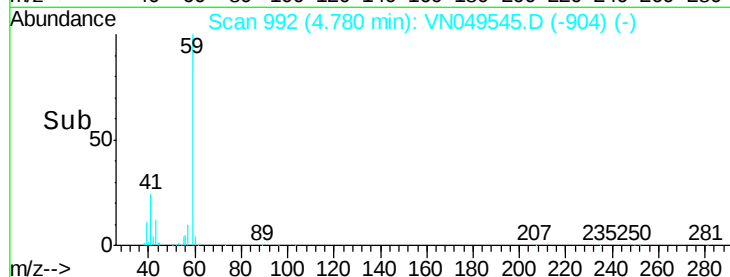
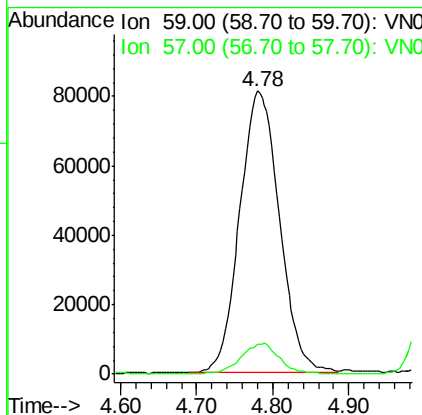
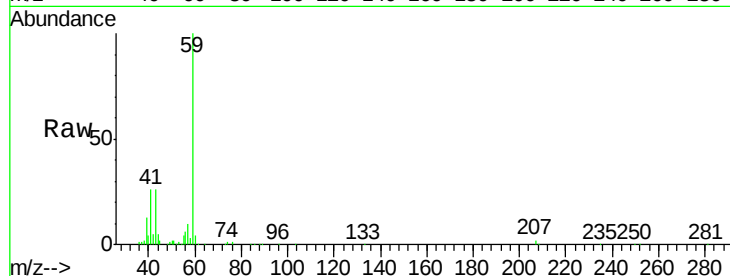
Tert butyl alcohol
 Concen: 221.74 ug/l
 RT: 4.78 min Scan# 992
 Delta R.T. -0.02 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.0	9.0	13.6

Manual Integrations
 APPROVED

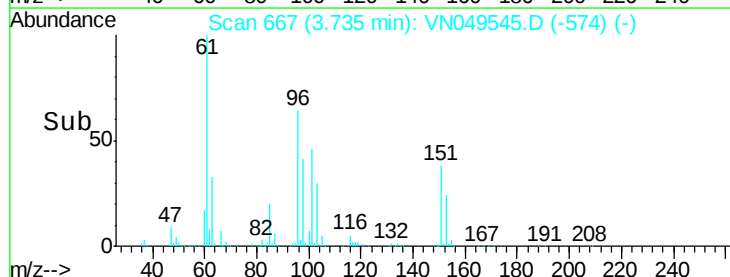
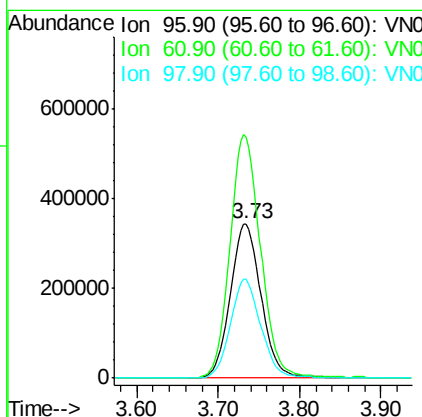
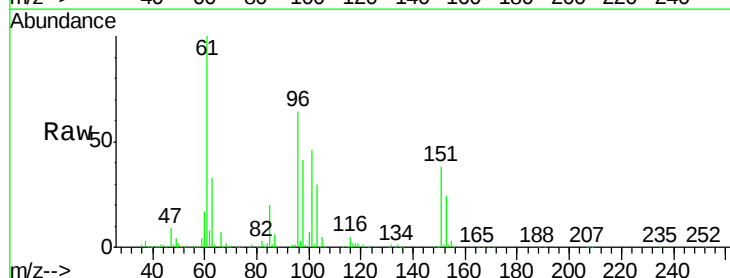
MMDadoda
 6/27/2018 5:29:43 PM

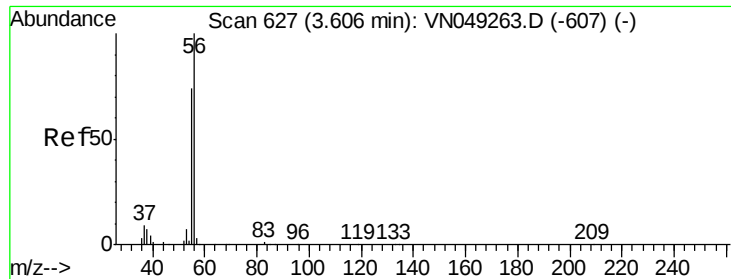


#12

1,1-Dichloroethene
 Concen: 46.06 ug/l
 RT: 3.73 min Scan# 667
 Delta R.T. 0.00 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.2	141.0	211.4
98	64.4	50.4	75.6





#13

Acrolein

Concen: 177.04 ug/l

RT: 3.60 min Scan# 626

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 247112

Ion Ratio Lower Upper

56 100

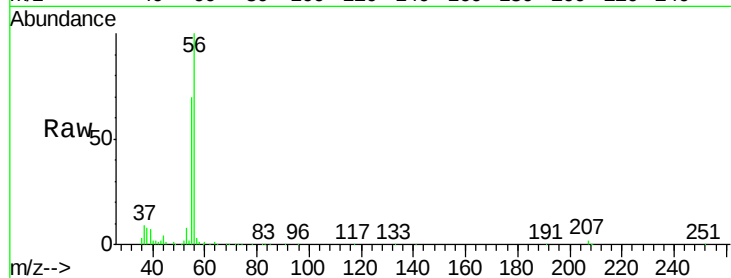
55 70.3 57.1 85.7

Manual Integrations

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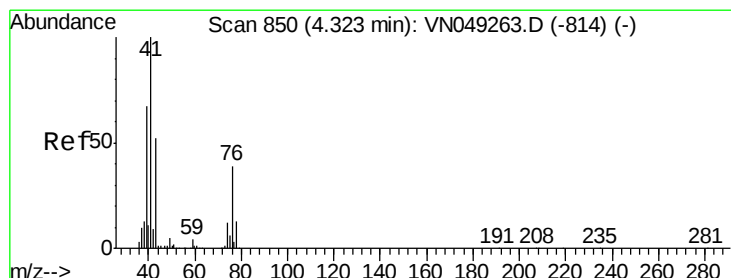
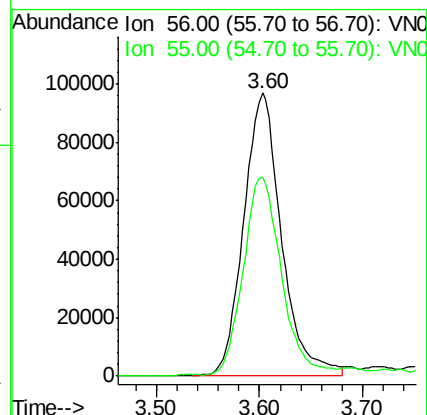
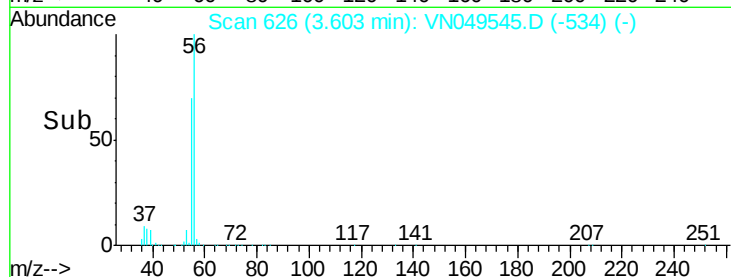


Abundance Ion 56.00 (55.70 to 56.70): VN049263.D (-607) (-)

Ion 55.00 (54.70 to 55.70): VN049263.D (-607) (-)

3.60

Time-->



#14

Allyl chloride

Concen: 40.94 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

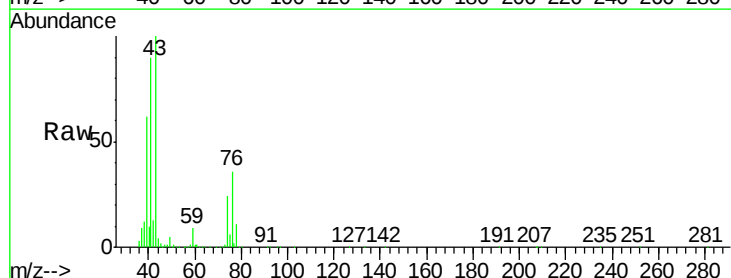
Tgt Ion: 41 Resp: 1267264

Ion Ratio Lower Upper

41 100

39 65.5 62.5 93.7

76 36.3 27.1 40.7



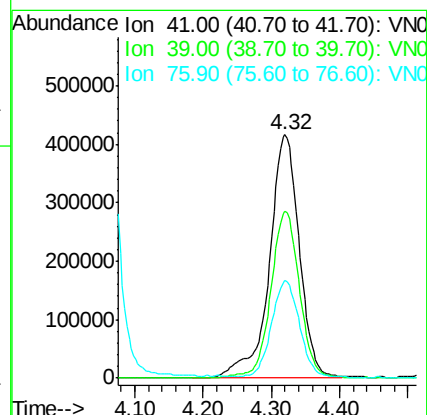
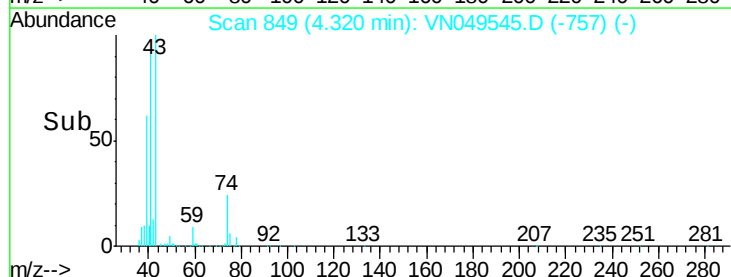
Abundance Ion 41.00 (40.70 to 41.70): VN049263.D (-814) (-)

Ion 39.00 (38.70 to 39.70): VN049263.D (-814) (-)

Ion 75.90 (75.60 to 76.60): VN049263.D (-814) (-)

4.32

Time-->





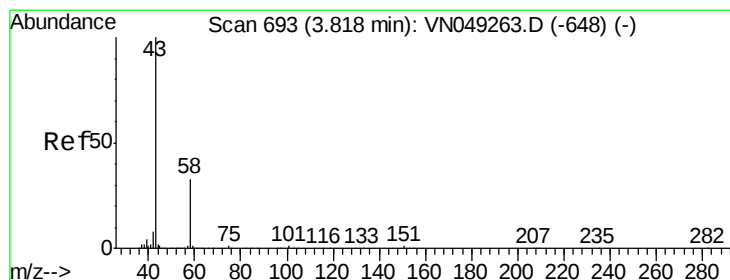
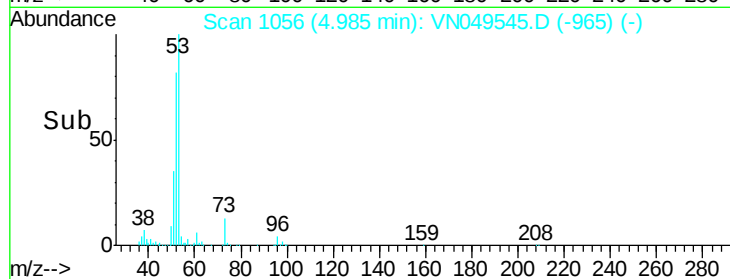
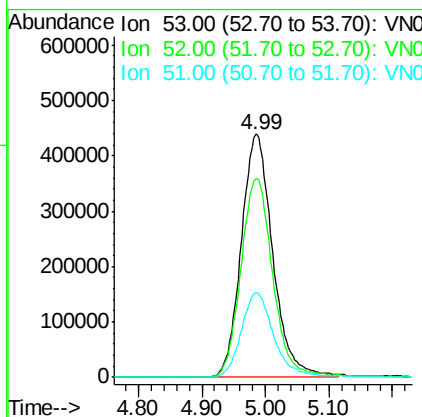
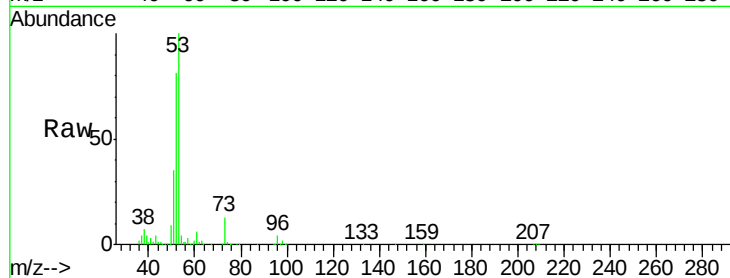
#15
 Acrylonitrile
 Concen: 227.35 ug/l
 RT: 4.99 min Scan# 1056
 Delta R.T. -0.01 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.6	100.0
51	36.2	29.8	44.8

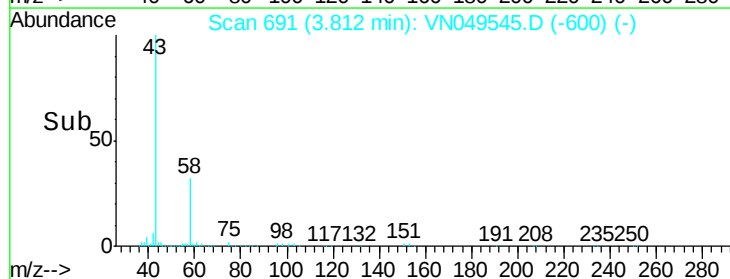
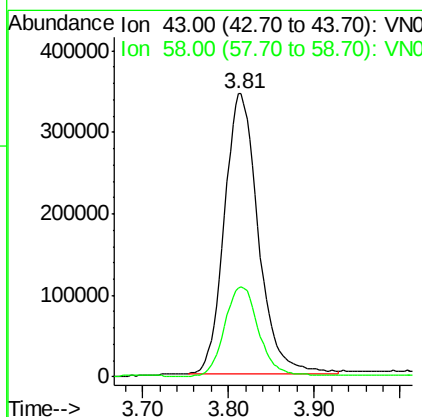
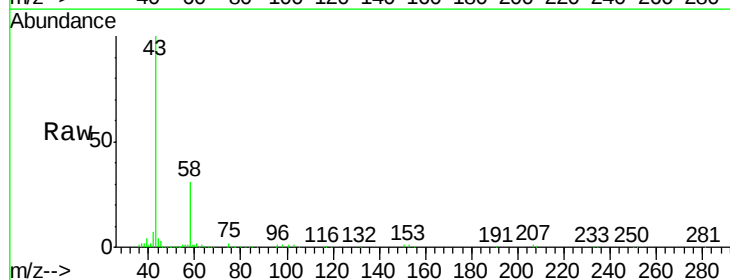
Manual Integrations
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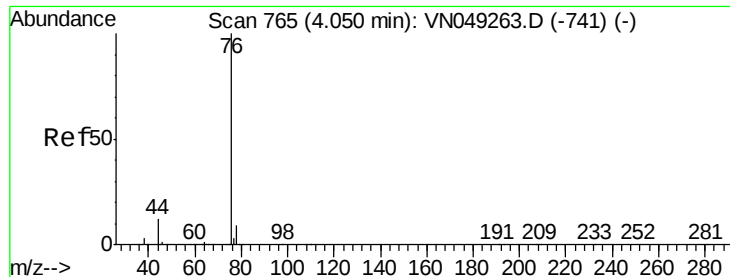
MMDadoda
 6/27/2018 5:29:43 PM



#16
 Acetone
 Concen: 170.46 ug/l
 RT: 3.81 min Scan# 691
 Delta R.T. -0.01 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.7	22.4	33.6





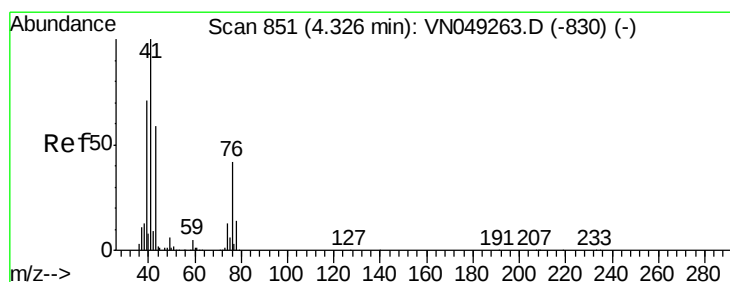
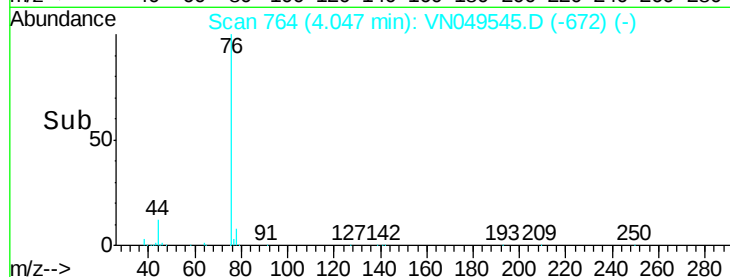
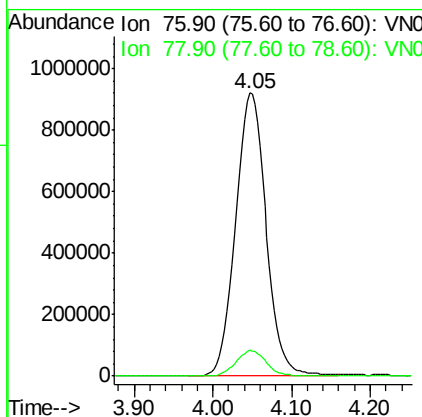
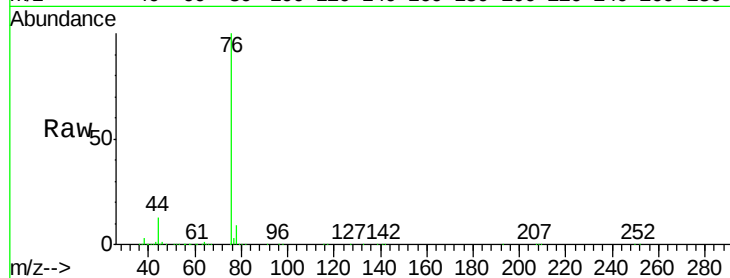
#17
Carbon Disulfide
Concen: 40.74 ug/l
RT: 4.05 min Scan# 764
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 2503415
Ion Ratio Lower Upper
76 100
78 9.0 7.4 11.0

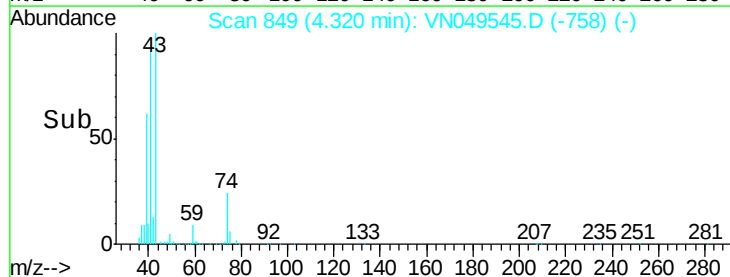
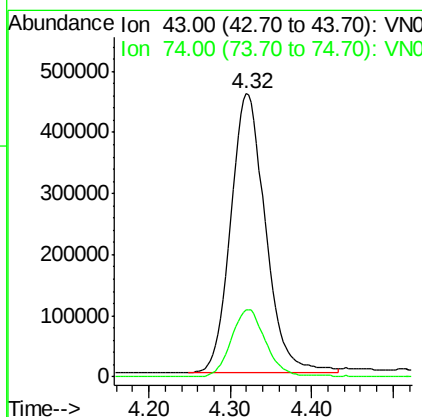
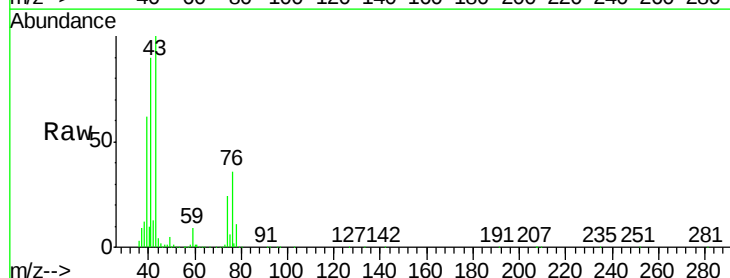
Manual Integrations
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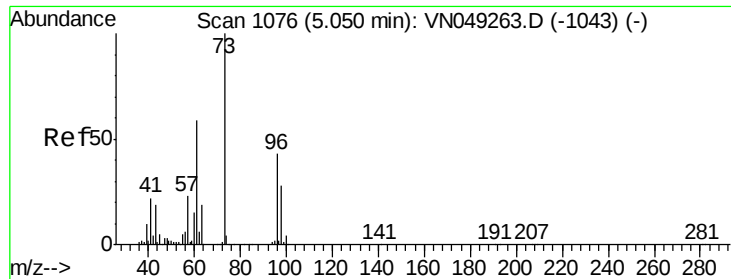
MMDadoda
6/27/2018 5:29:43 PM



#18
Methyl Acetate
Concen: 80.27 ug/l
RT: 4.32 min Scan# 849
Delta R.T. -0.01 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion: 43 Resp: 1347748
Ion Ratio Lower Upper
43 100
74 24.0 17.4 26.0





#19

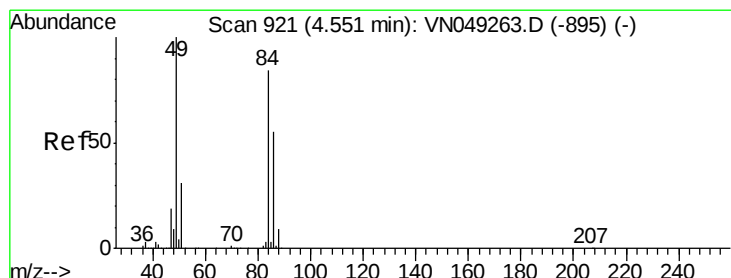
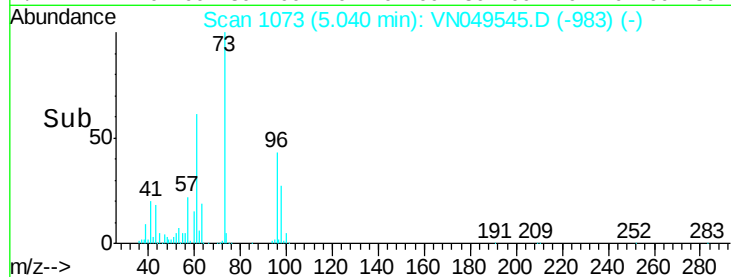
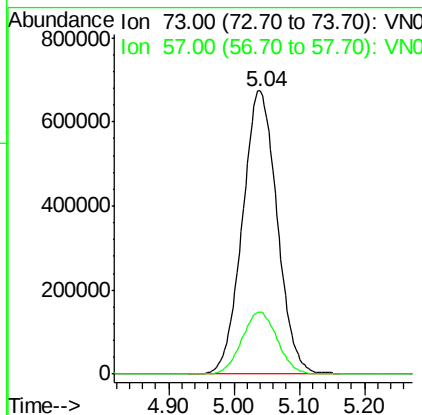
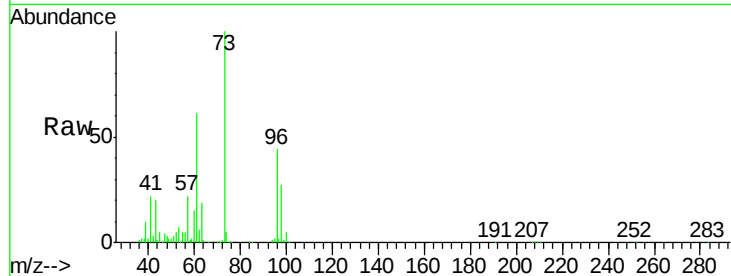
Methyl tert-butyl Ether
 Concen: 49.81 ug/l
 RT: 5.04 min Scan# 1073
 Delta R.T. -0.01 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 73 Resp: 2489606
 Ion Ratio Lower Upper
 73 100
 57 22.0 18.2 27.4

Manual Integrations
 APPROVED

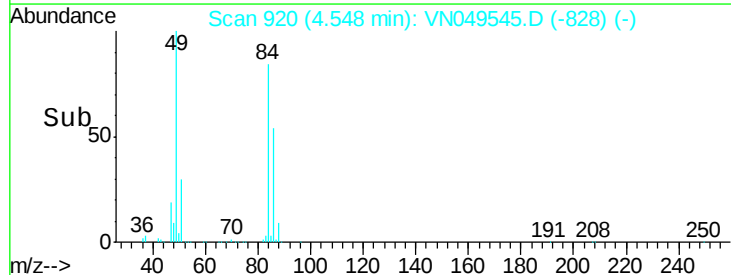
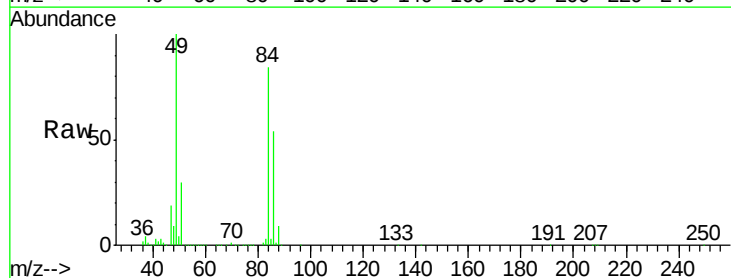
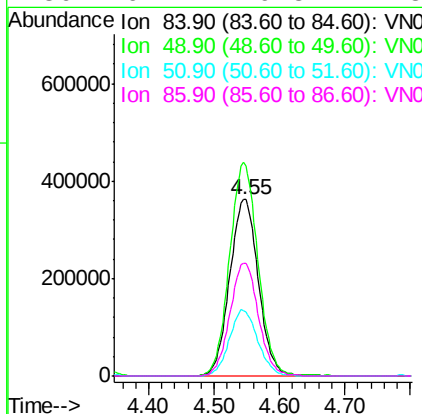
MMDadoda
 6/27/2018 5:29:43 PM



#20

Methylene Chloride
 Concen: 48.19 ug/l
 RT: 4.55 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Tgt Ion: 84 Resp: 1108262
 Ion Ratio Lower Upper
 84 100
 49 119.2 106.9 160.3
 51 36.1 32.7 49.1
 86 64.1 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 46.35 ug/l

RT: 5.03 min Scan# 1071

Delta R.T. -0.01 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

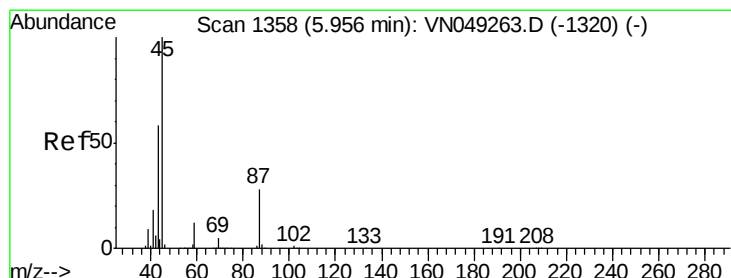
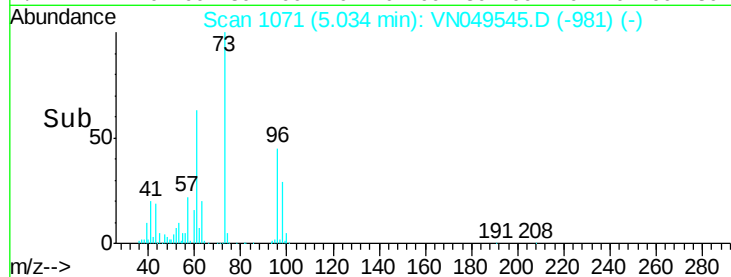
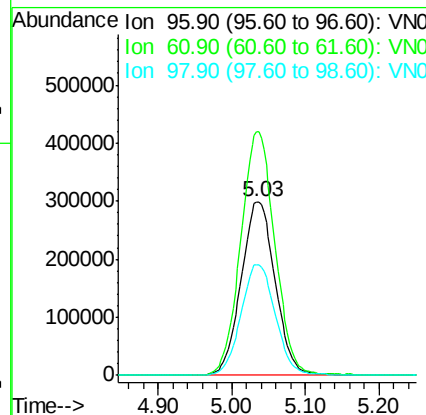
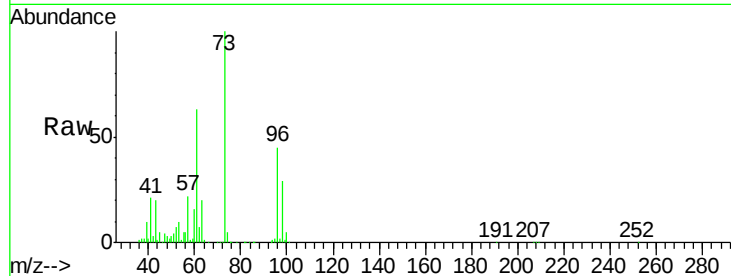
ClientSampled :

VSTDCCC050

Tot Ion:	96	Resp:	962080
Ion	Ratio	Lower	Upper
96	100		
61	140.2	121.3	181.9
98	64.0	52.0	78.0

Manual Integrations
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MMDadoda
6/27/2018 5:29:43 PM



#22

Diisopropyl ether

Concen: 51.08 ug/l

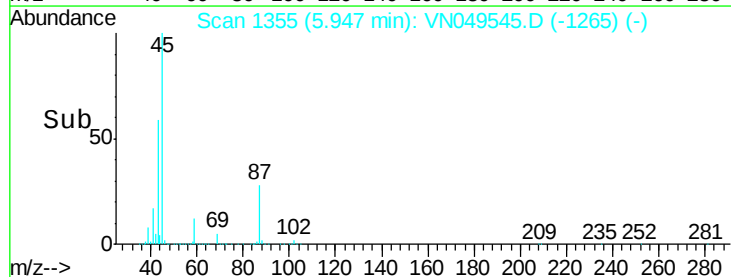
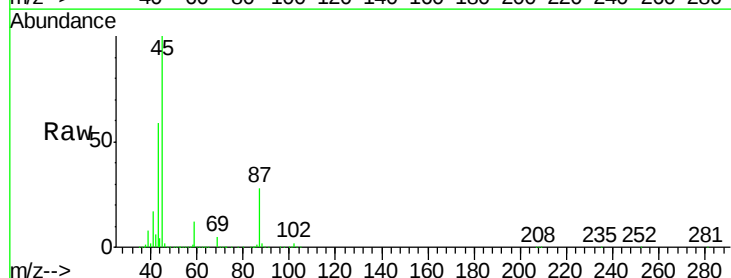
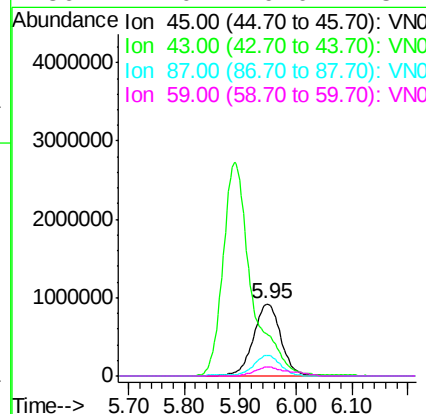
RT: 5.95 min Scan# 1355

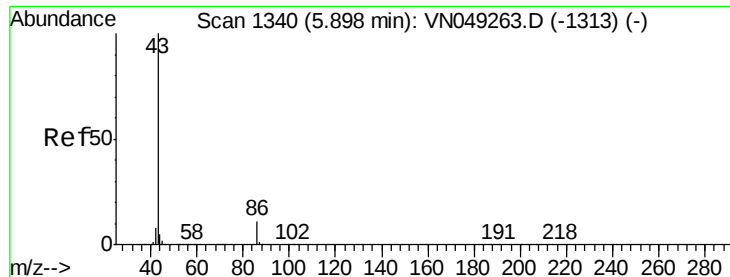
Delta R.T. -0.01 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Tgt Ion:	45	Resp:	3157680
Ion	Ratio	Lower	Upper
45	100		
43	59.0	48.6	72.8
87	28.1	20.2	30.2
59	12.0	9.0	13.4





#23

Vinyl Acetate

Concen: 239.77 ug/l

RT: 5.89 min Scan# 1337

Delta R.T. -0.01 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 9662183

Ion Ratio Lower Upper

43 100

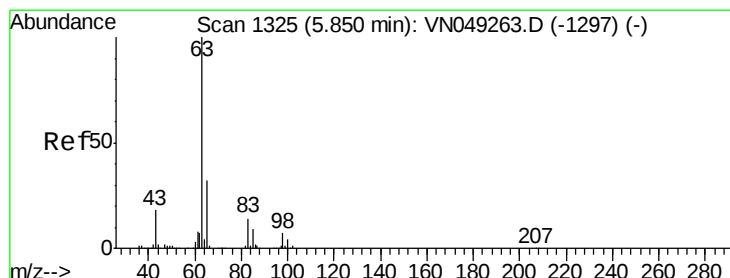
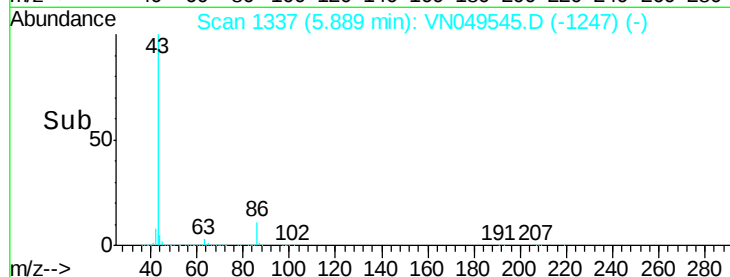
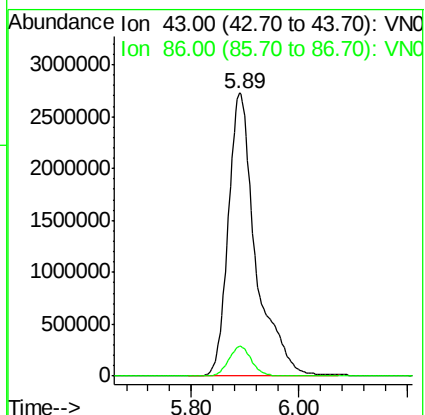
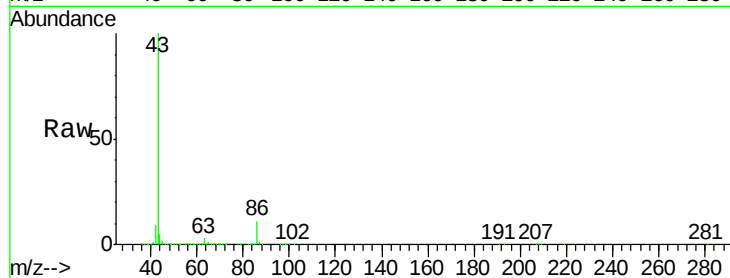
86 10.5 7.2 10.8

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 47.21 ug/l

RT: 5.84 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

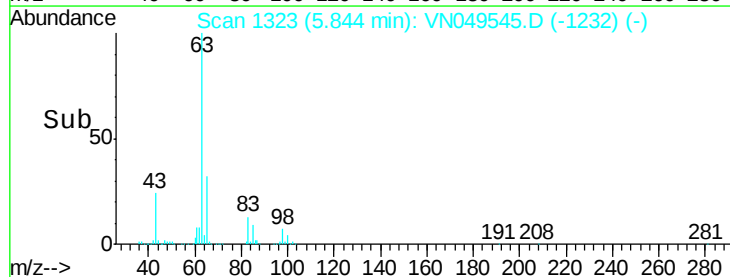
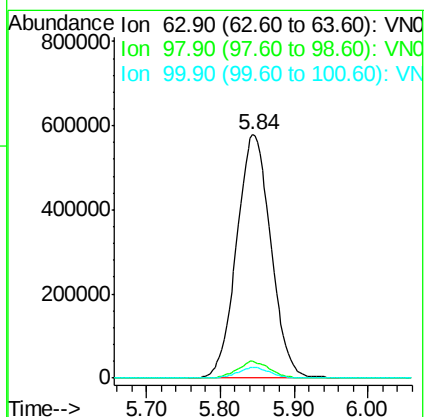
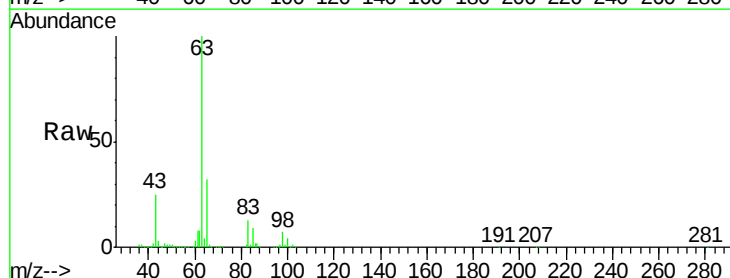
Tgt Ion: 63 Resp: 1868037

Ion Ratio Lower Upper

63 100

98 6.8 2.9 8.8

100 4.2 2.1 6.3





#25

2-Butanone

Concen: 211.88 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.01 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1566572

Ion Ratio Lower Upper

43 100

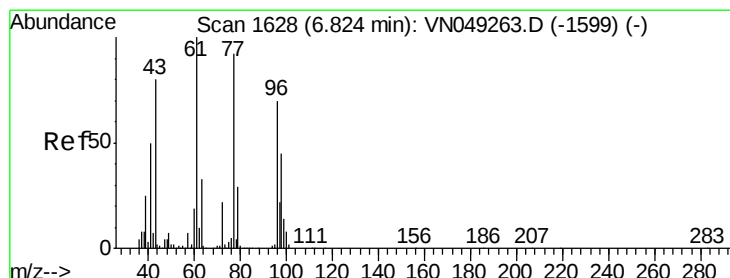
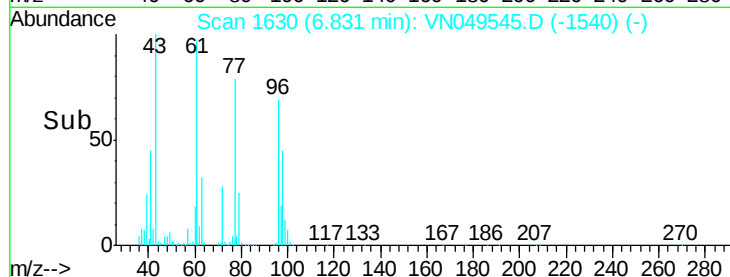
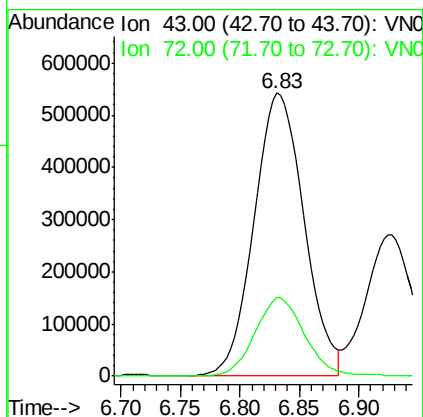
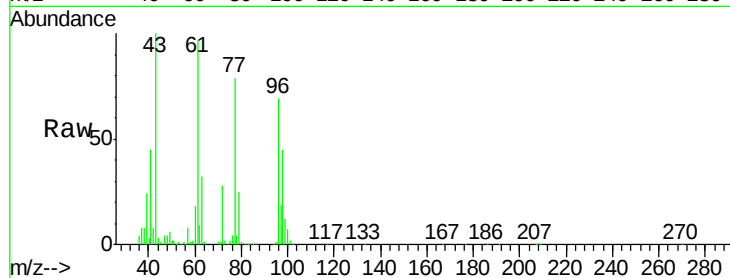
72 27.7 20.2 30.2

Manual Integrations

APPROVED

MMDadoda

6/27/2018 5:29:43 PM



#26

2,2-Dichloropropane

Concen: 48.86 ug/l

RT: 6.82 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VN049545.D

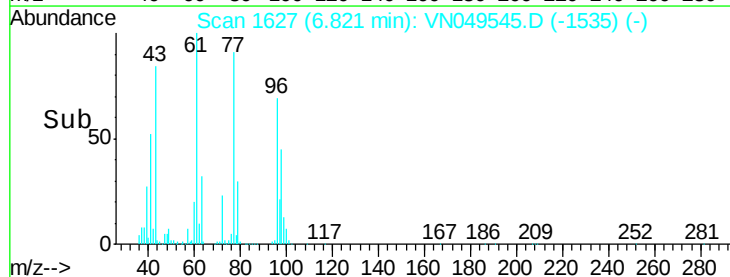
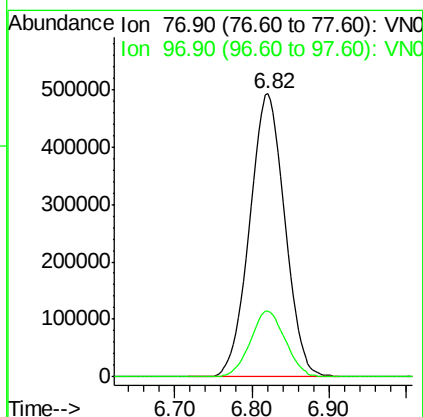
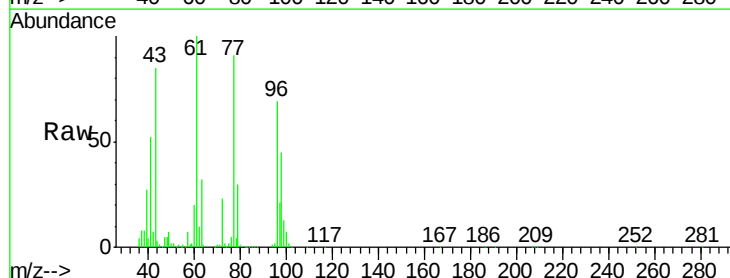
Acq: 26 Jun 2018 11:31

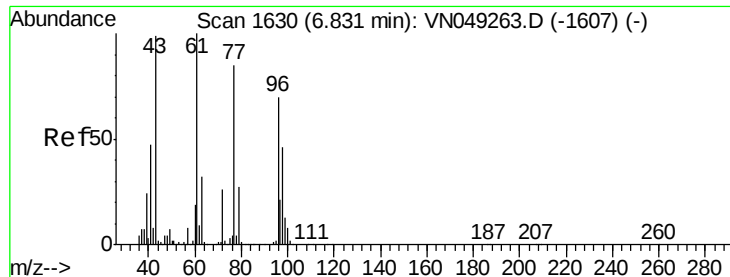
Tgt Ion: 77 Resp: 1561310

Ion Ratio Lower Upper

77 100

97 23.2 11.0 33.0





#27

cis-1,2-Dichloroethene

Concen: 48.77 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 1125291

Ion Ratio Lower Upper

96 100

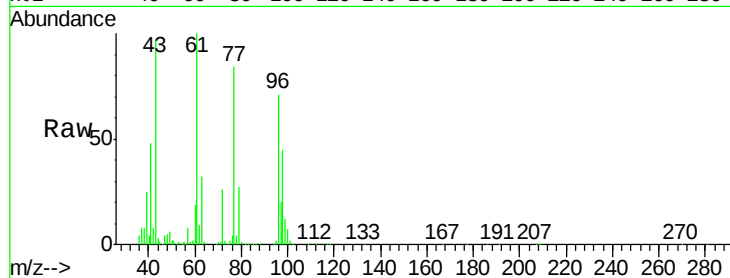
61 144.2 0.0 316.4

98 64.8 0.0 128.4

Manual Integrations
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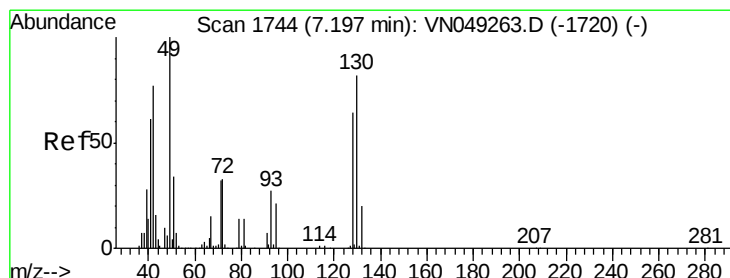
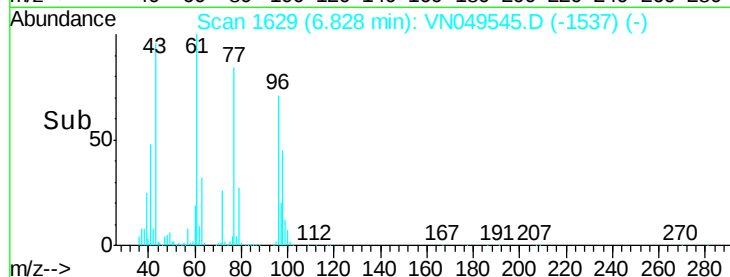
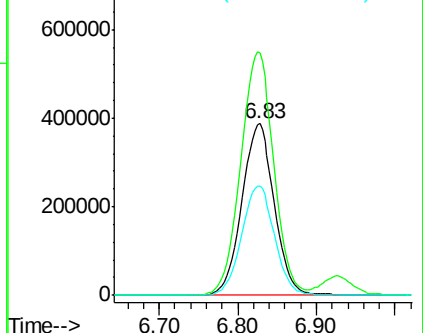
6/27/2018 5:29:43 PM



Abundance Ion 95.90 (95.60 to 96.60): VN049263.D (-1607) (-)

Ion 60.90 (60.60 to 61.60): VN049263.D (-1607) (-)

Ion 97.90 (97.60 to 98.60): VN049263.D (-1607) (-)



#28

Bromochloromethane

Concen: 47.66 ug/l

RT: 7.19 min Scan# 1743

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

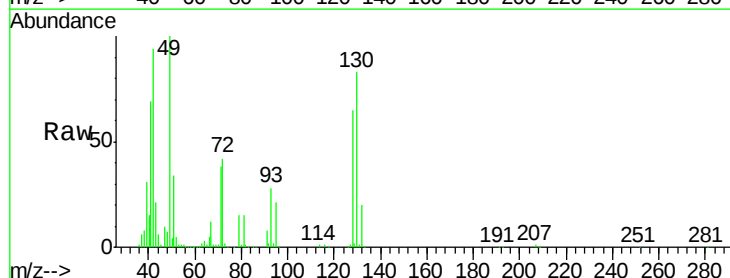
Tgt Ion: 49 Resp: 835927

Ion Ratio Lower Upper

49 100

129 2.1 0.0 3.8

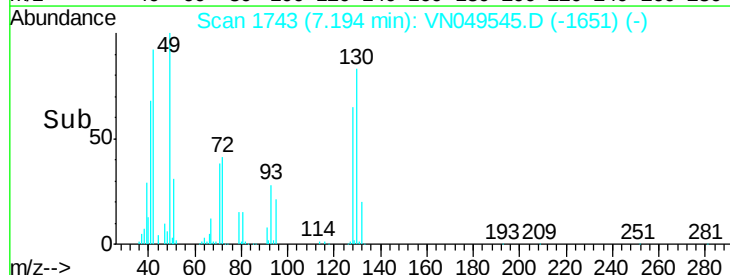
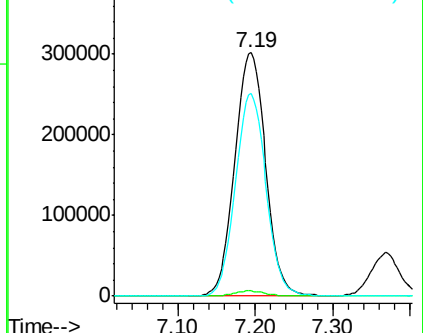
130 82.7 54.9 82.3#

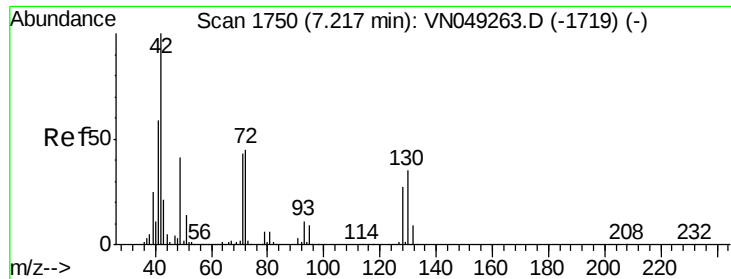


Abundance Ion 48.90 (48.60 to 49.60): VN049263.D (-1720) (-)

Ion 128.80 (128.50 to 129.50): VN049263.D (-1720) (-)

Ion 129.80 (129.50 to 130.50): VN049263.D (-1720) (-)





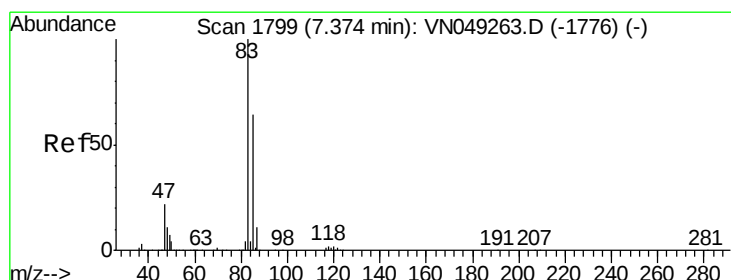
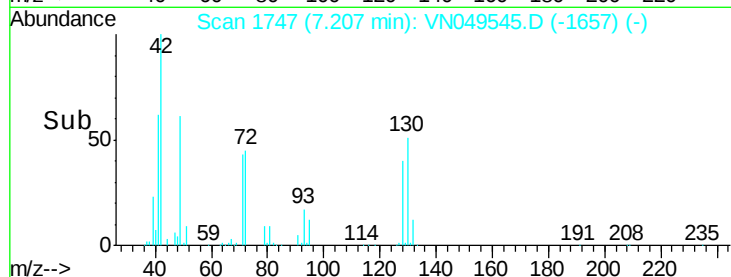
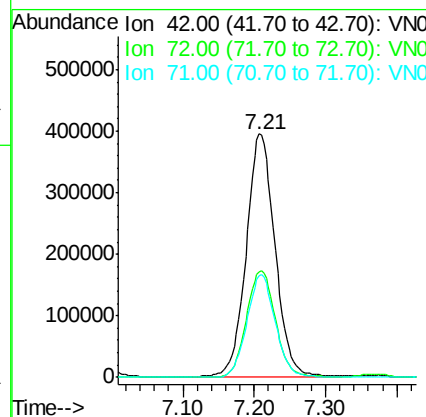
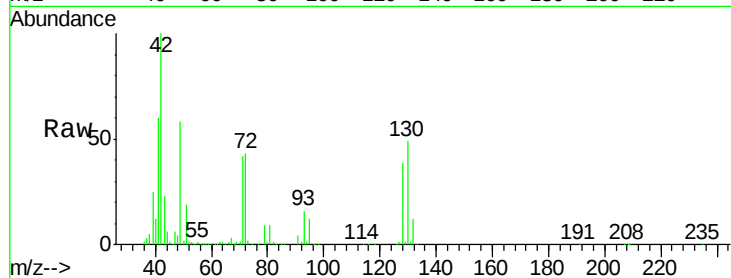
#29
Tetrahydrofuran
Concen: 231.79 ug/l
RT: 7.21 min Scan# 1747
Delta R.T. -0.01 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 42 Resp: 1103179
Ion Ratio Lower Upper
42 100
72 44.3 32.2 48.4
71 42.0 30.5 45.7

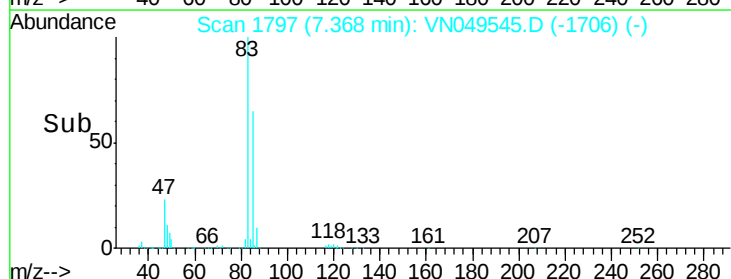
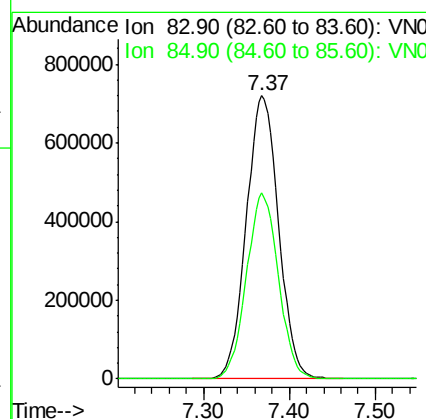
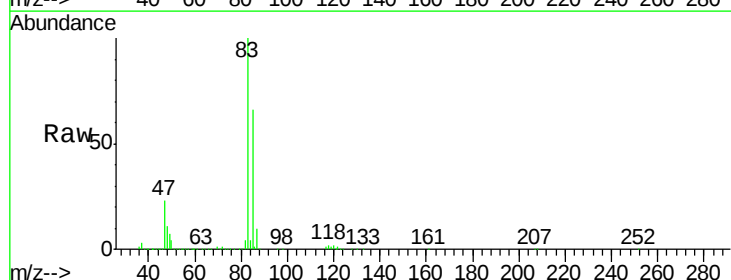
Manual Integrations
APPROVED

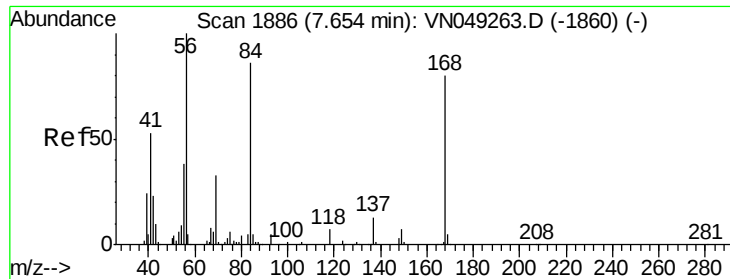
MMDadoda
6/27/2018 5:29:43 PM



#30
Chloroform
Concen: 47.75 ug/l
RT: 7.37 min Scan# 1797
Delta R.T. -0.01 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion: 83 Resp: 1880168
Ion Ratio Lower Upper
83 100
85 65.6 51.7 77.5





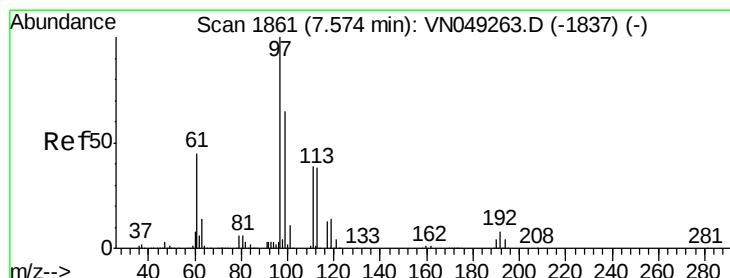
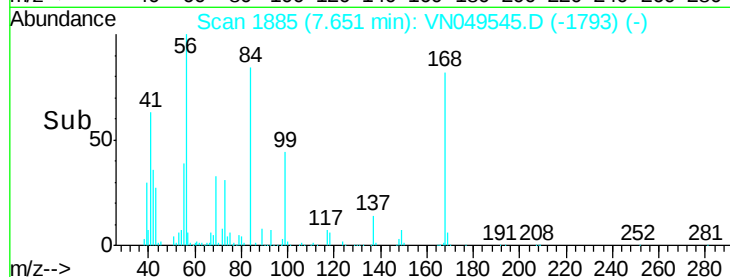
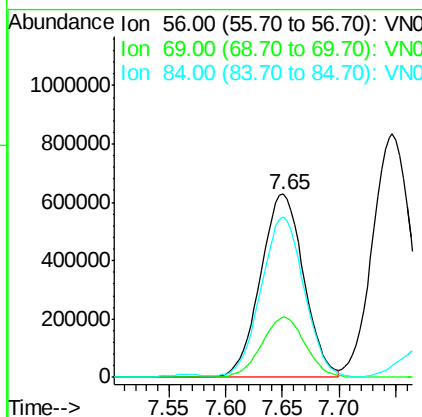
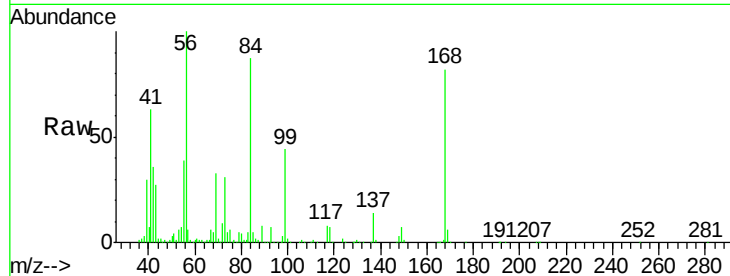
#31
Cyclohexane
Concen: 49.60 ug/l
RT: 7.65 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 56 Resp: 1663501
Ion Ratio Lower Upper
56 100
69 32.8 25.0 37.4
84 85.8 64.6 96.8

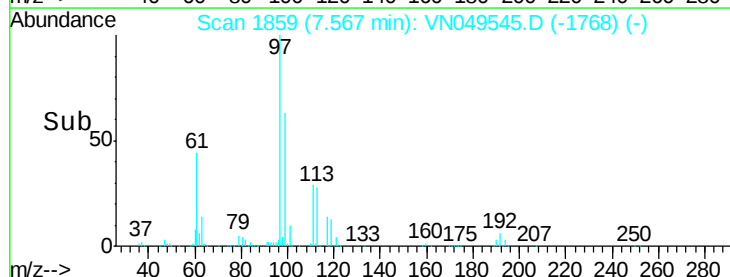
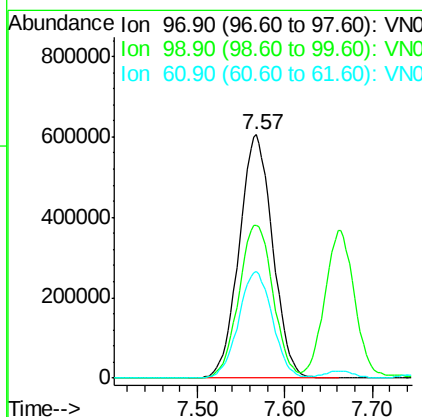
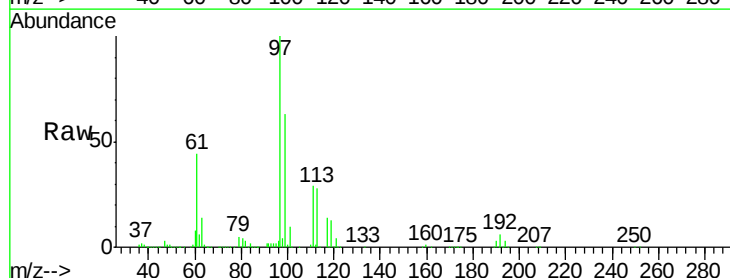
Manual Integrations
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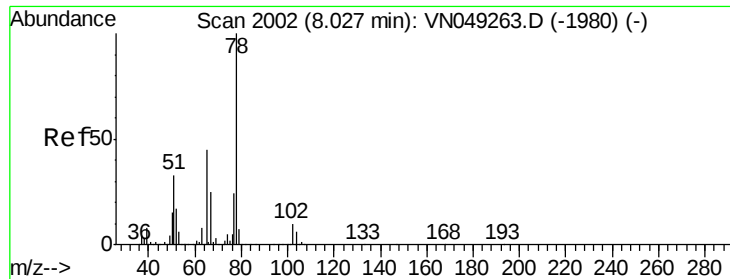
MMDadoda
6/27/2018 5:29:43 PM



#32
1,1,1-Trichloroethane
Concen: 47.94 ug/l
RT: 7.57 min Scan# 1859
Delta R.T. -0.01 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion: 97 Resp: 1610690
Ion Ratio Lower Upper
97 100
99 64.3 50.5 75.7
61 44.2 37.9 56.9





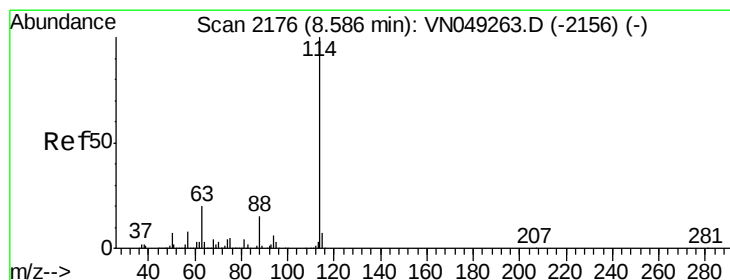
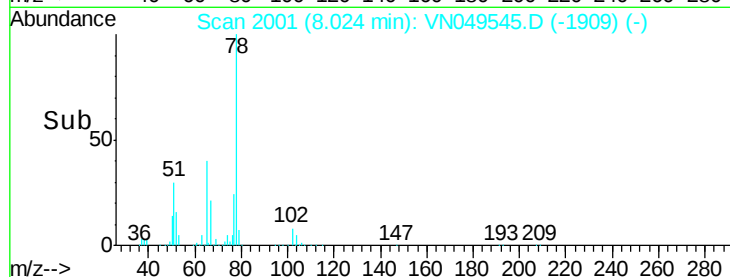
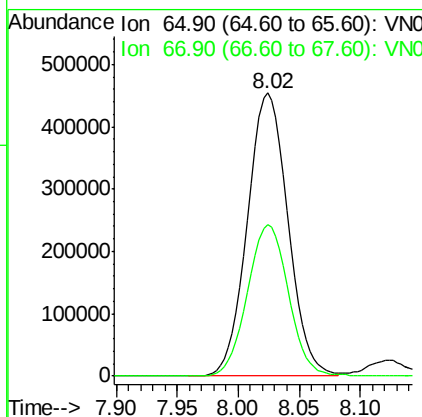
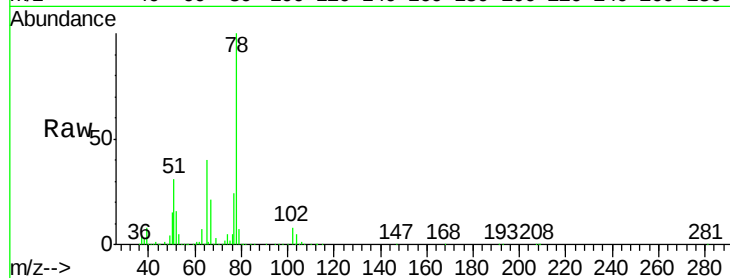
#33
 1,2-Dichloroethane-d4
 Concen: 46.17 ug/l
 RT: 8.02 min Scan# 2001
 Delta R.T. -0.00 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion: 65 Resp: 1046957
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 103.8

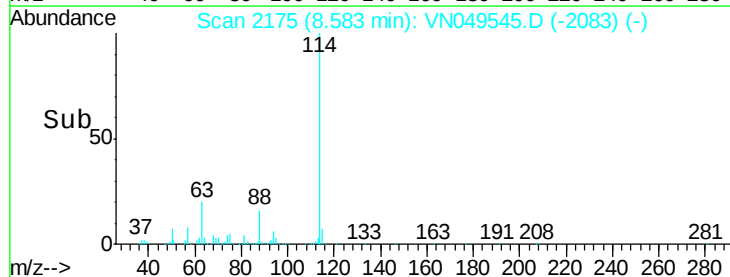
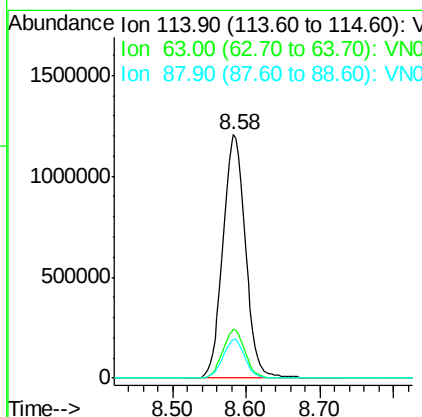
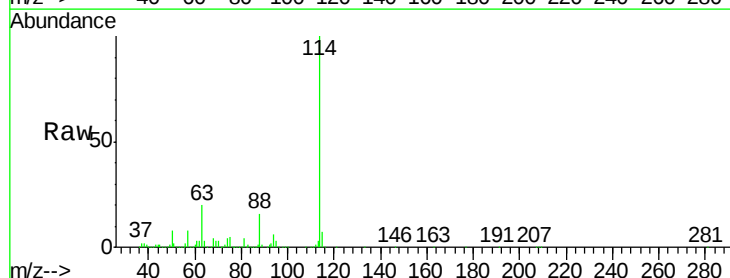
Manual Integrations
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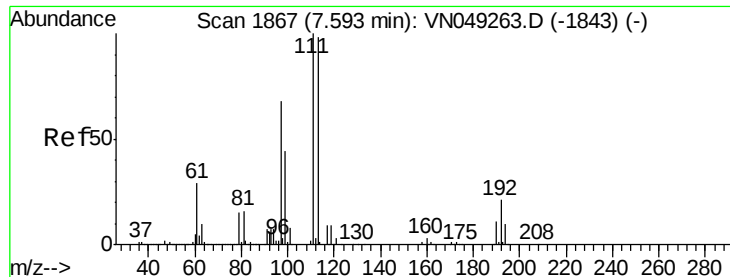
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.58 min Scan# 2175
 Delta R.T. -0.00 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Tgt Ion: 114 Resp: 2562007
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 44.4
 88 16.1 0.0 31.4





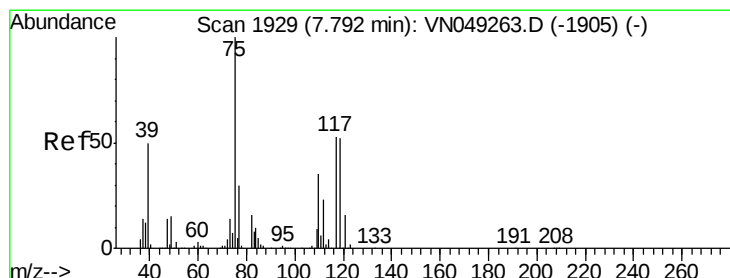
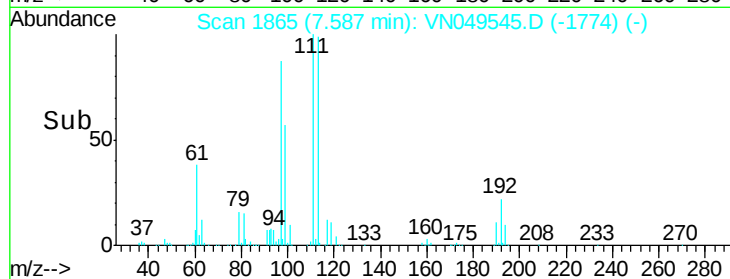
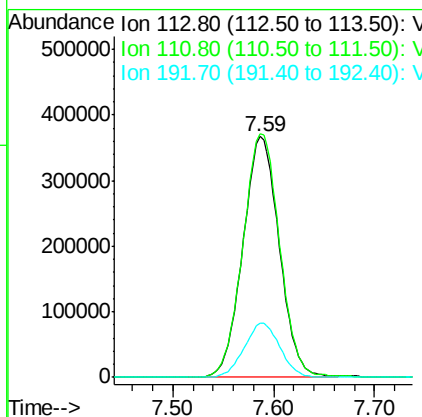
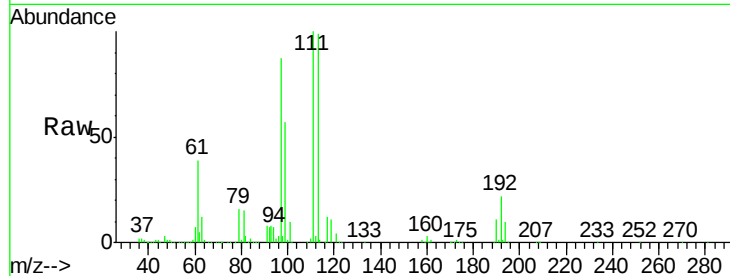
#35
 Dibromofluoromethane
 Concen: 44.19 ug/l
 RT: 7.59 min Scan# 1865
 Delta R.T. -0.01 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	915905		
111	102.6	82.4	123.6	
192	22.3	15.0	22.6	

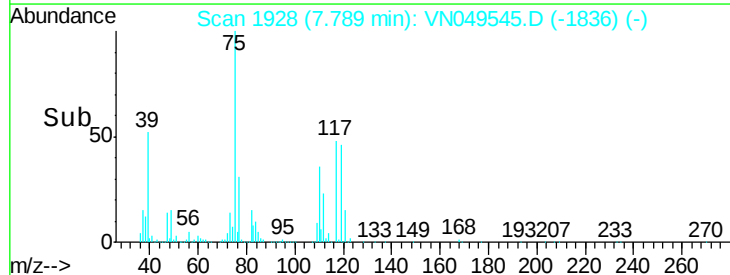
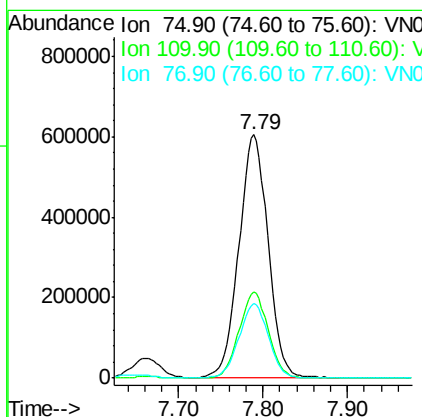
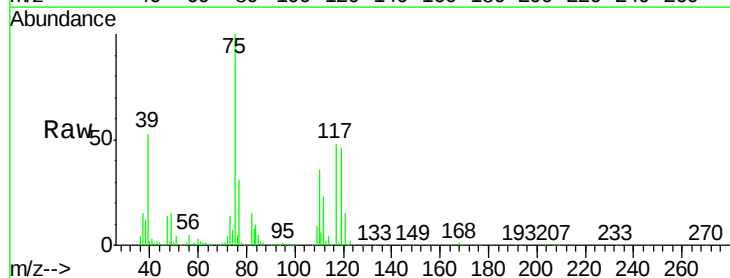
Manual Integrations
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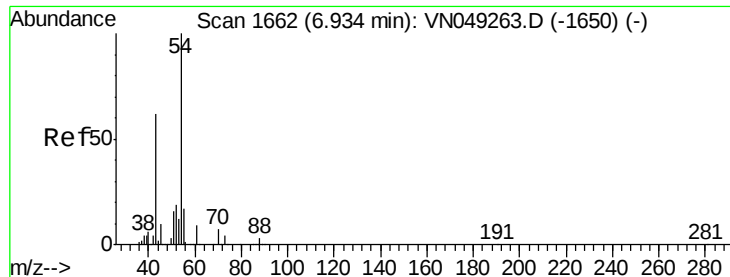
MMDadoda
 6/27/2018 5:29:43 PM



#36
 1,1-Dichloropropene
 Concen: 49.47 ug/l
 RT: 7.79 min Scan# 1928
 Delta R.T. -0.00 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1452724		
110	35.5	17.0	50.9	
77	30.8	24.4	36.6	





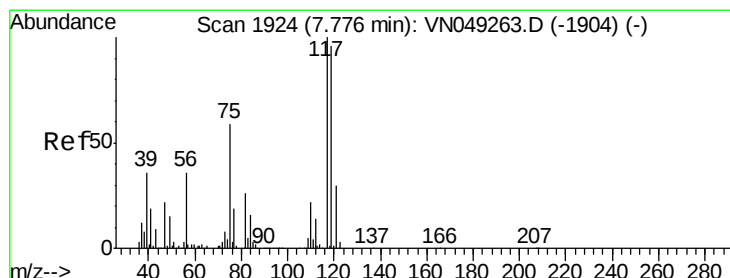
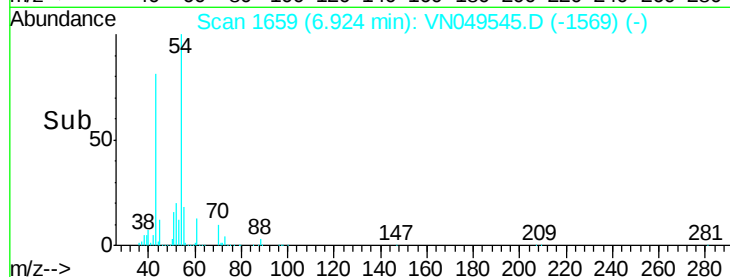
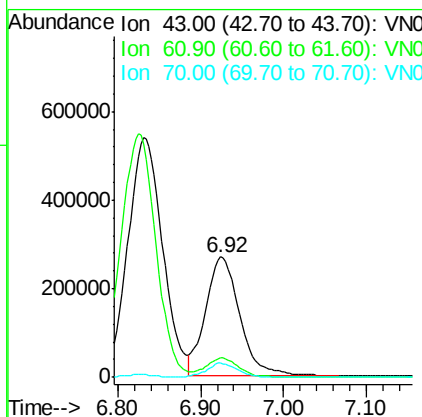
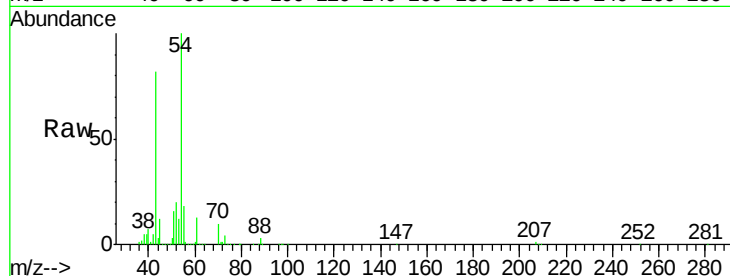
#37
Ethyl Acetate
Concen: 48.40 ug/l
RT: 6.92 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.2	11.0	16.4
70	10.4	7.2	10.8

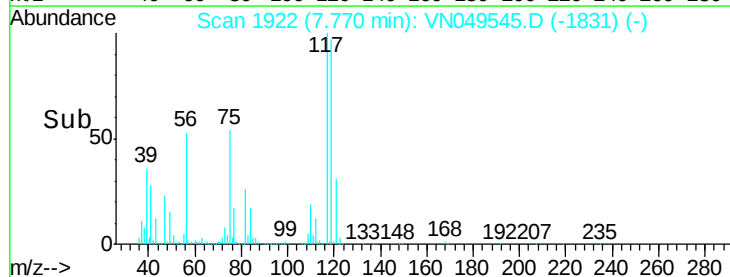
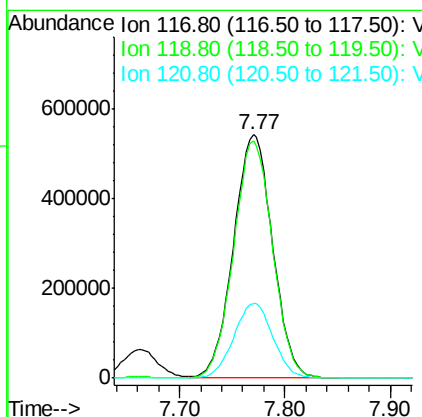
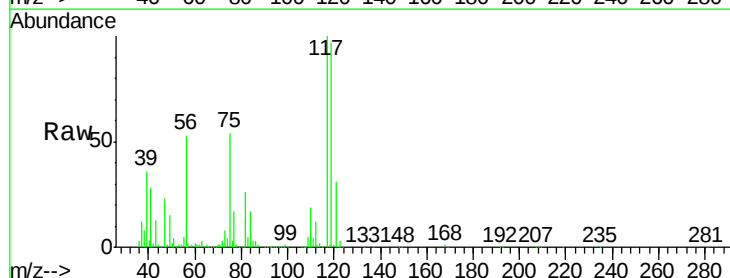
Manual Integrations
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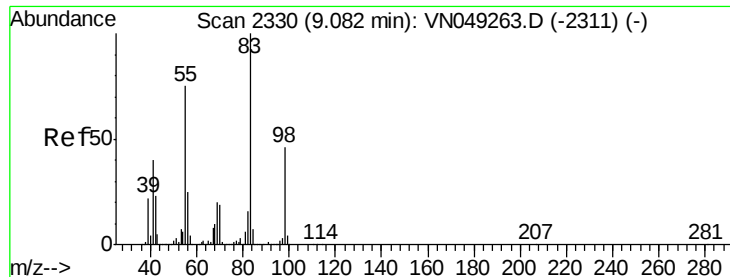
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#38
Carbon Tetrachloride
Concen: 45.84 ug/l
RT: 7.77 min Scan# 1922
Delta R.T. -0.01 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.5	75.6	113.4
121	30.7	24.7	37.1





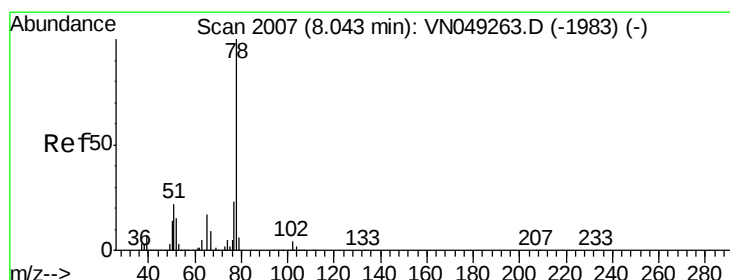
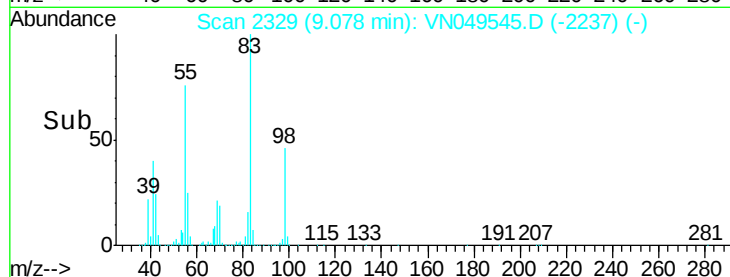
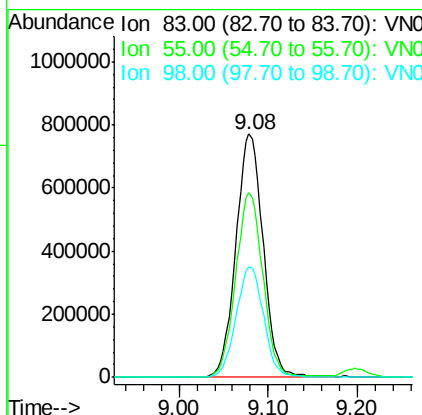
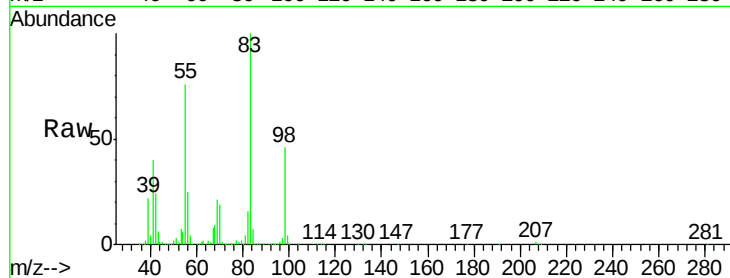
#39
Methvlcvclohexane
Concen: 52.02 ug/l
RT: 9.08 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.8	65.1	97.7
98	45.6	36.5	54.7

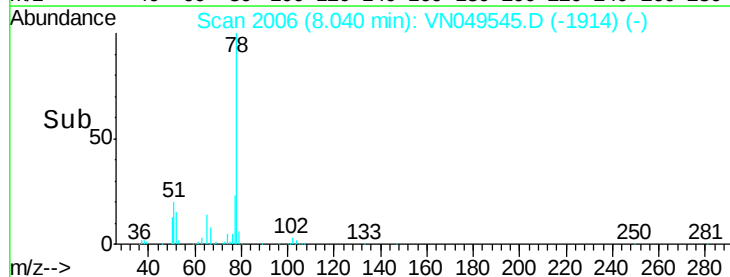
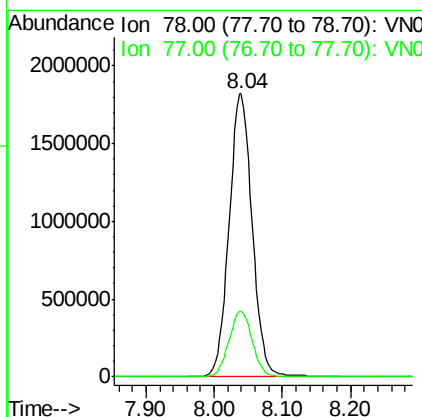
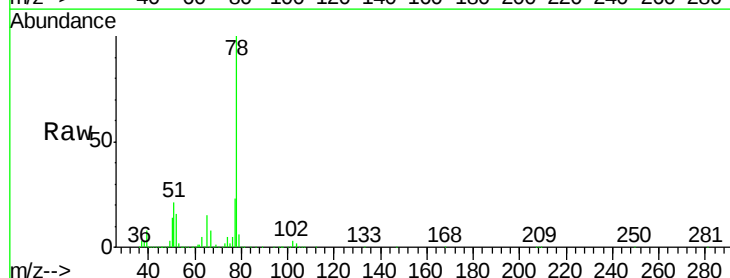
Manual Integrations
APPROVED

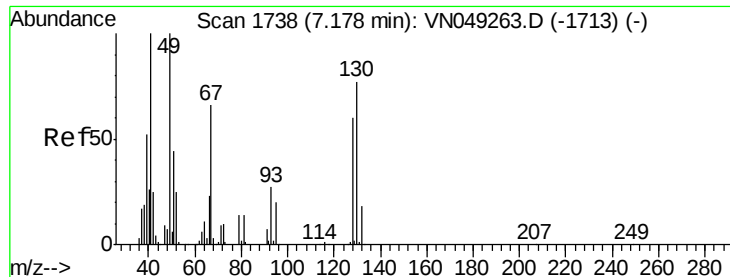
MMDadoda
6/27/2018 5:29:43 PM



#40
Benzene
Concen: 47.56 ug/l
RT: 8.04 min Scan# 2006
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.4	29.0





#41

Methacrylonitrile

Concen: 50.57 ug/l

RT: 7.17 min Scan# 1735

Delta R.T. -0.01 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 436398

Ion Ratio Lower Upper

41 100

39 60.9 0.0 0.0#

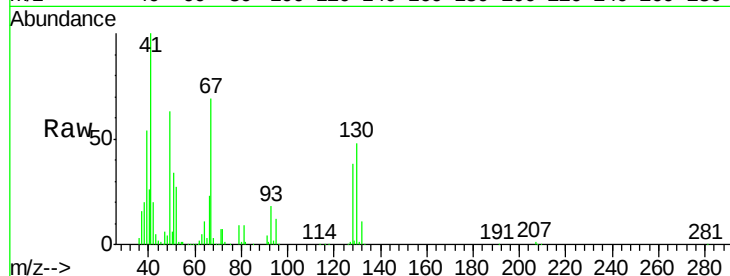
67 83.0 0.0 0.0#

52 32.4 0.0 0.0#

Manual Integrations
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MMDadoda

6/27/2018 5:29:43 PM

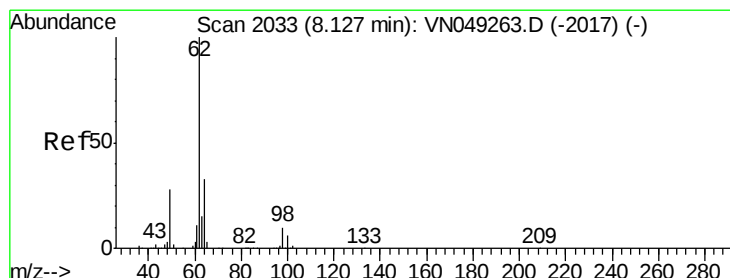
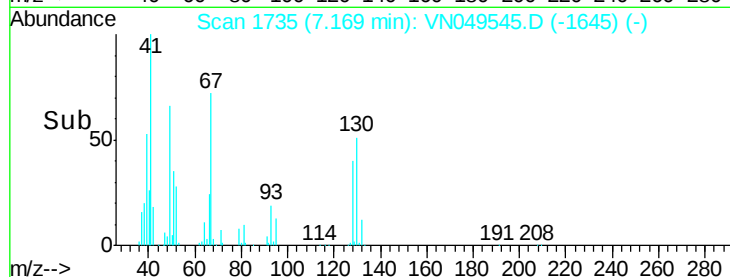
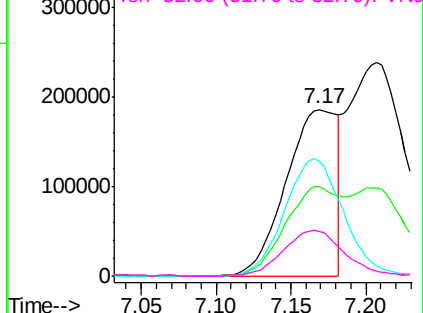


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#42

1,2-Dichloroethane

Concen: 46.98 ug/l

RT: 8.12 min Scan# 2032

Delta R.T. -0.00 min

Lab File: VN049545.D

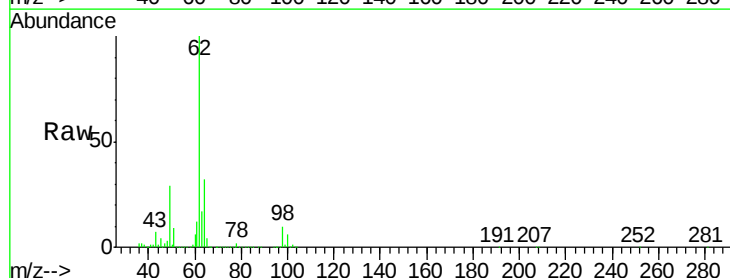
Acq: 26 Jun 2018 11:31

Tgt Ion: 62 Resp: 1306590

Ion Ratio Lower Upper

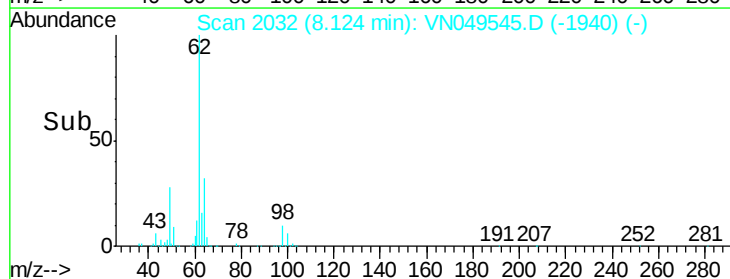
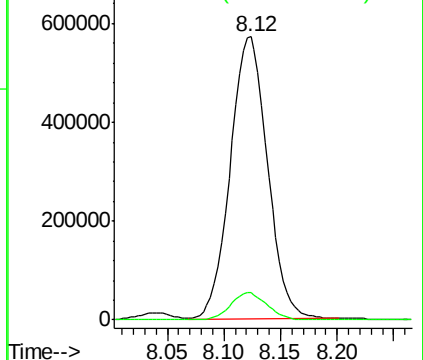
62 100

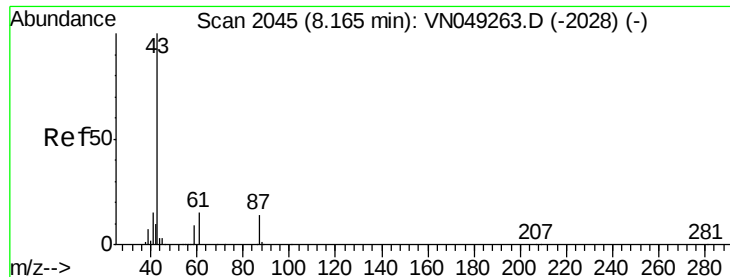
98 9.5 0.0 16.2



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





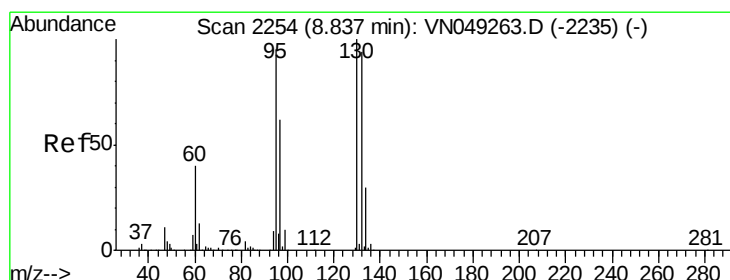
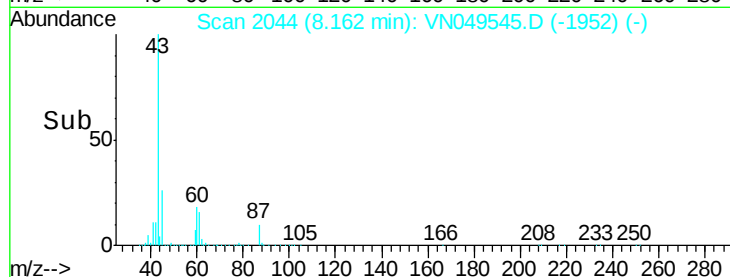
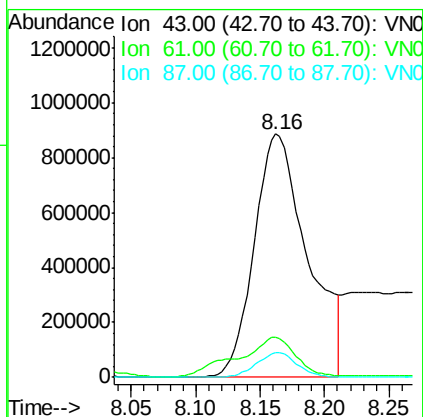
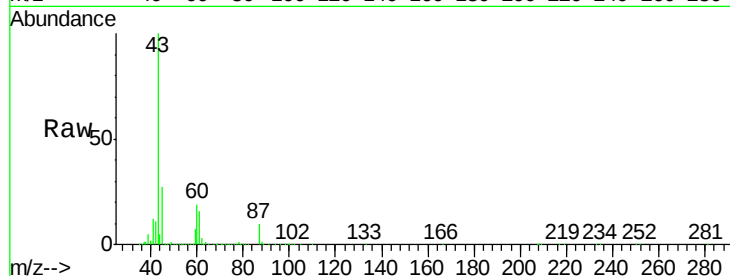
#43
Isopropyl Acetate
Concen: 83.18 ug/l
RT: 8.16 min Scan# 2044
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 2536944
Ion Ratio Lower Upper
43 100
61 18.2 14.2 21.4
87 7.9 9.4 14.0#

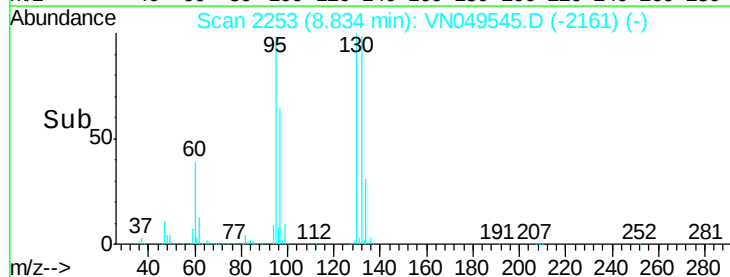
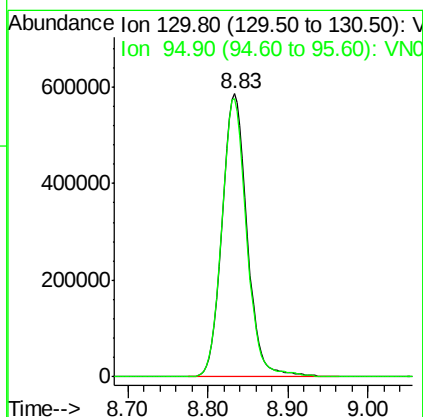
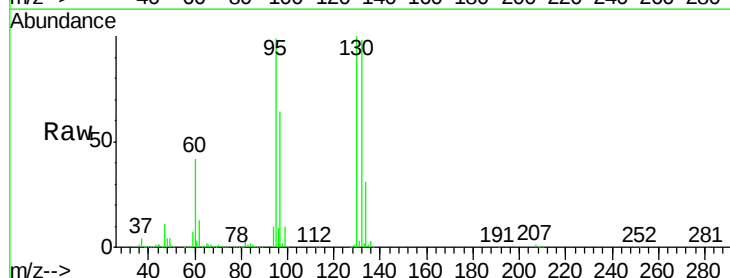
Manual Integrations
APPROVED

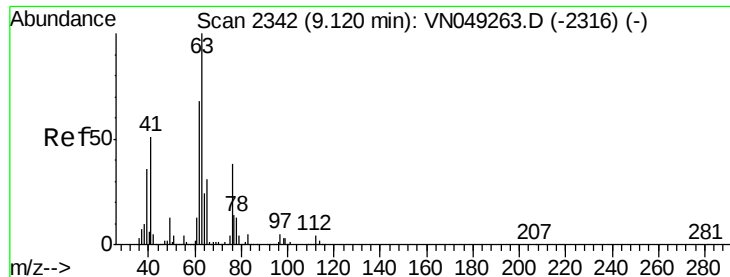
MMDadoda
6/27/2018 5:29:43 PM



#44
Trichloroethene
Concen: 53.01 ug/l
RT: 8.83 min Scan# 2253
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion:130 Resp: 1260283
Ion Ratio Lower Upper
130 100
95 98.5 0.0 208.6





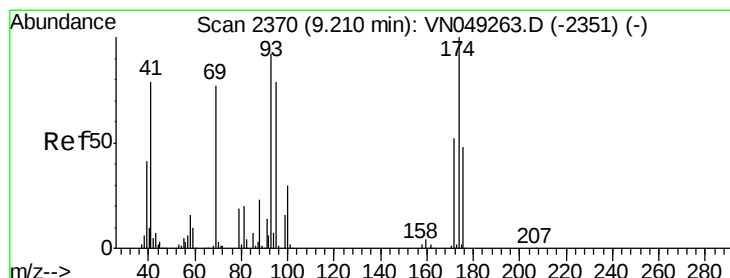
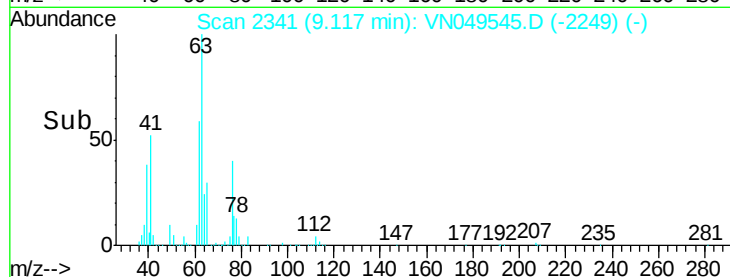
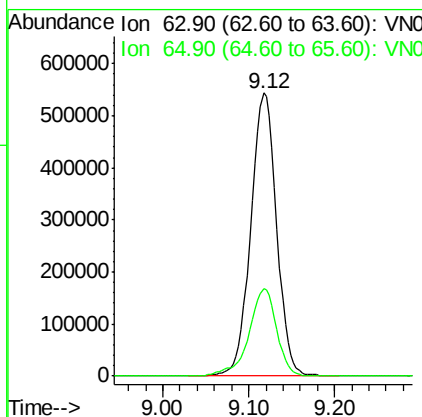
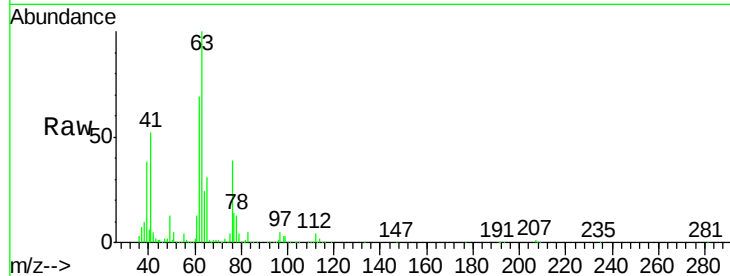
#45
 1,2-Dichloropropane
 Concen: 48.26 ug/l
 RT: 9.12 min Scan# 2341
 Delta R.T. -0.00 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 1137595
 Ion Ratio Lower Upper
 63 100
 65 30.8 24.8 37.2

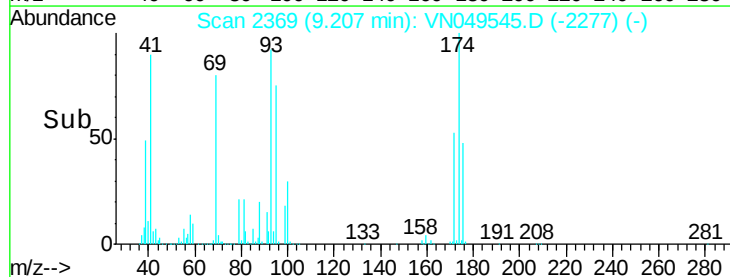
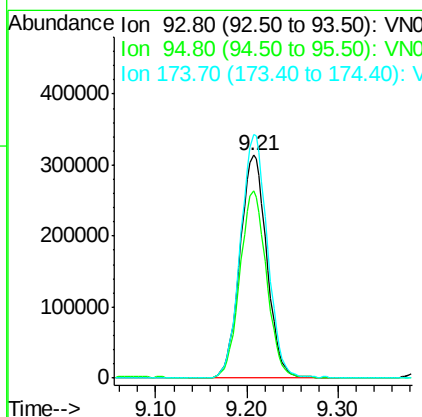
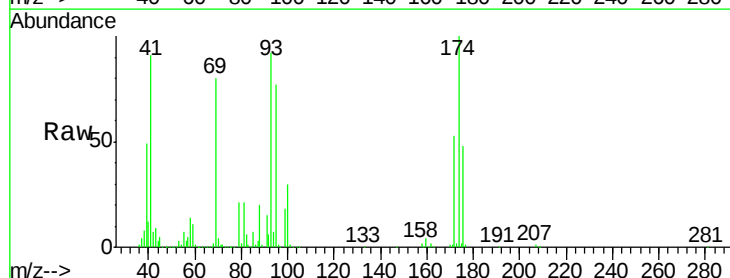
Manual Integrations
 APPROVED

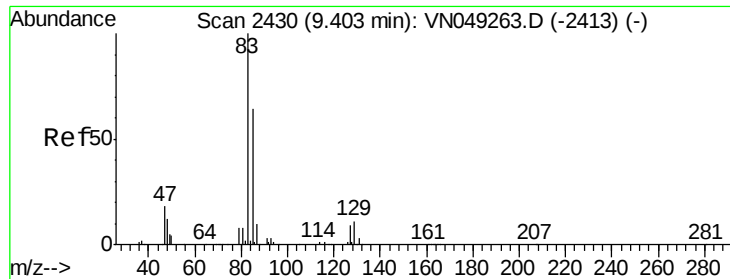
MMDadoda
 6/27/2018 5:29:43 PM



#46
 Dibromomethane
 Concen: 47.07 ug/l
 RT: 9.21 min Scan# 2369
 Delta R.T. -0.00 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Tgt Ion: 93 Resp: 643365
 Ion Ratio Lower Upper
 93 100
 95 83.8 67.2 100.8
 174 109.4 75.6 113.4





#47

Bromodichloromethane

Concen: 47.87 ug/l

RT: 9.40 min Scan# 2429

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 1437753

Ion Ratio Lower Upper

83 100

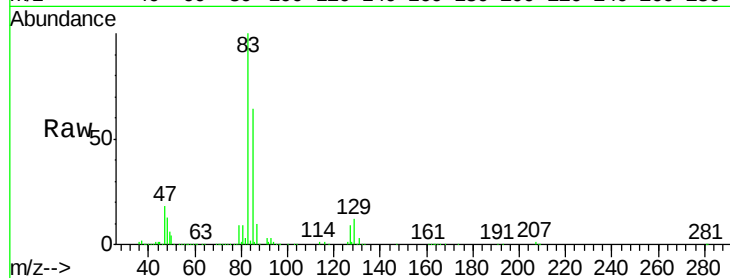
85 63.7 49.4 74.0

127 8.9 6.3 9.5

Manual Integrations
APPROVED

MMDadoda

6/27/2018 5:29:43 PM

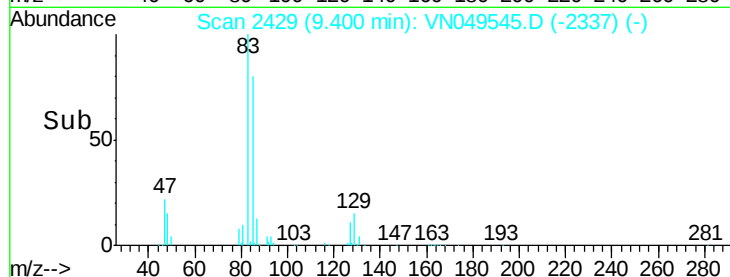


Abundance Ion 82.90 (82.60 to 83.60): VN049263.D (-2413) (-)

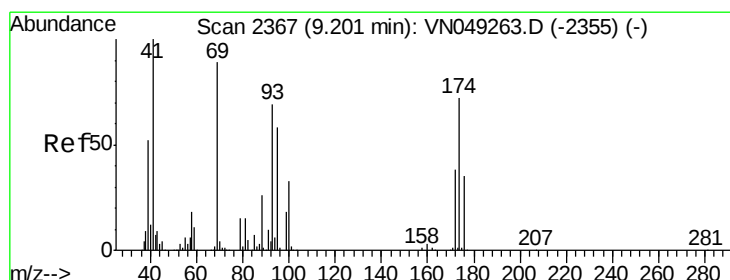
Ion 84.90 (84.60 to 85.60): VN049263.D (-2413) (-)

Ion 126.80 (126.50 to 127.50): VN049263.D (-2413) (-)

Time-->



Time-->



#48

Methyl methacrylate

Concen: 50.86 ug/l

RT: 9.20 min Scan# 2366

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

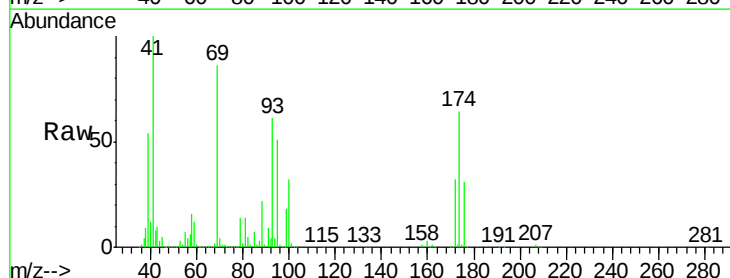
Tgt Ion: 41 Resp: 730420

Ion Ratio Lower Upper

41 100

69 90.6 62.0 93.0

39 55.8 50.6 75.8

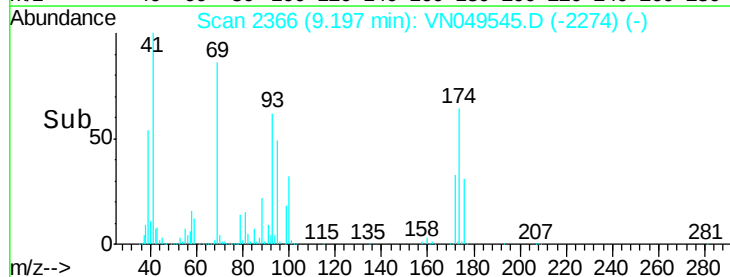


Abundance Ion 41.00 (40.70 to 41.70): VN049263.D (-2355) (-)

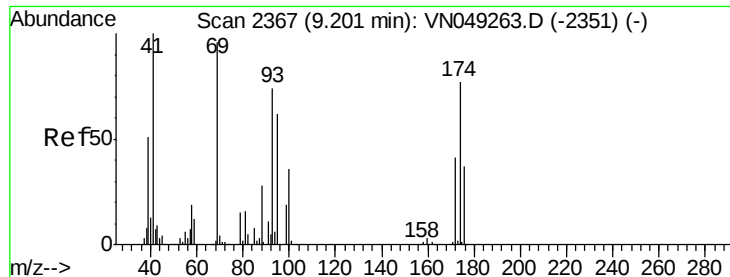
Ion 69.00 (68.70 to 69.70): VN049263.D (-2355) (-)

Ion 39.00 (38.70 to 39.70): VN049263.D (-2355) (-)

Time-->



Time-->



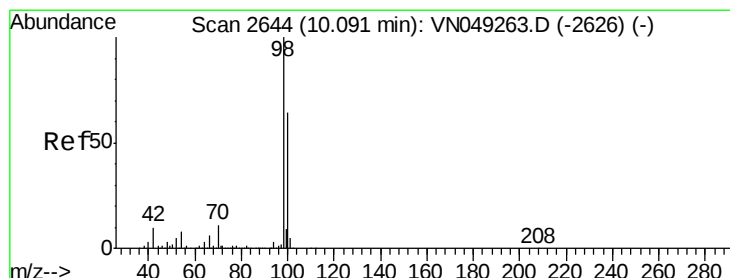
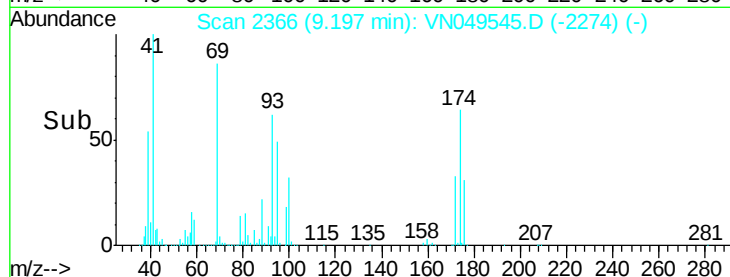
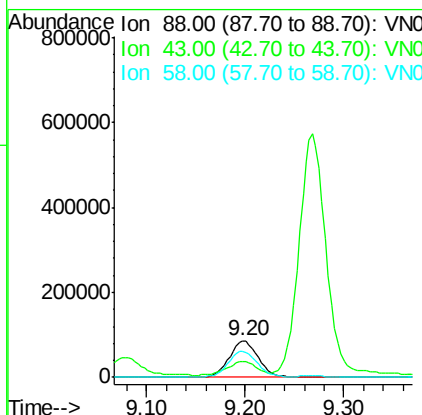
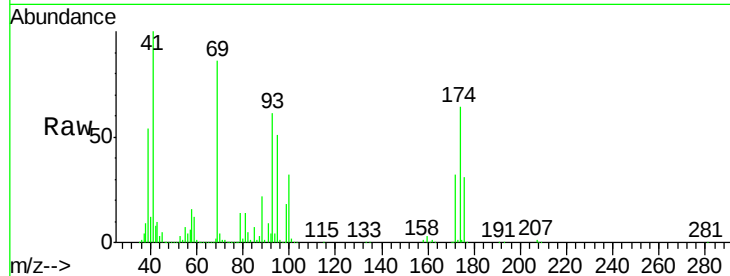
#49
1,4-Dioxane
Concen: 897.08 ug/l
RT: 9.20 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.7	30.9	46.3
58	70.3	58.9	88.3

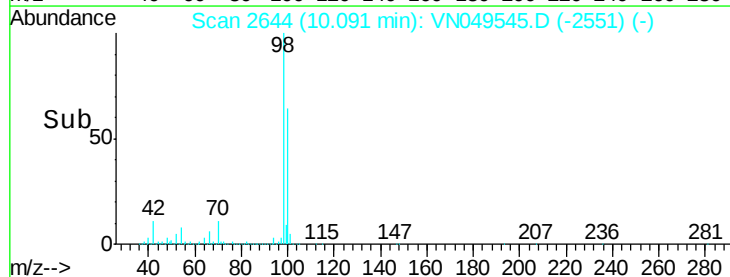
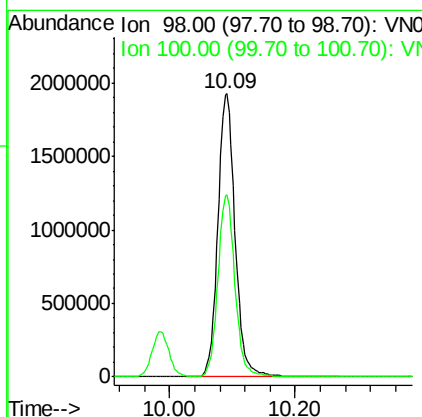
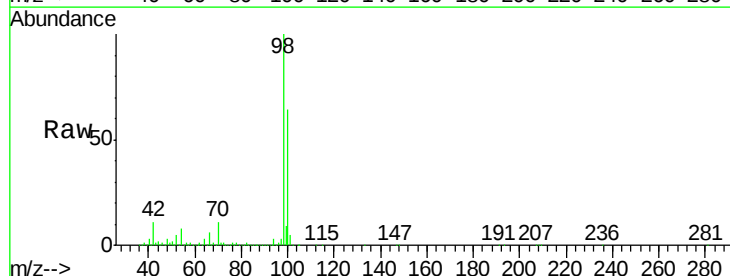
Manual Integrations
APPROVED

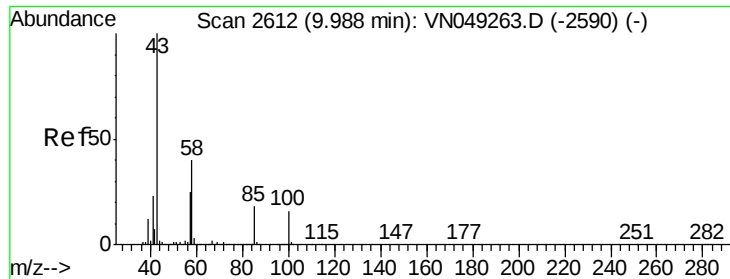
MMDadoda
6/27/2018 5:29:43 PM



#50
Toluene-d8
Concen: 46.32 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.2	49.8	74.8





#51

4-Methyl-2-Pentanone

Concen: 236.94 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 3787459

Ion Ratio Lower Upper

43 100

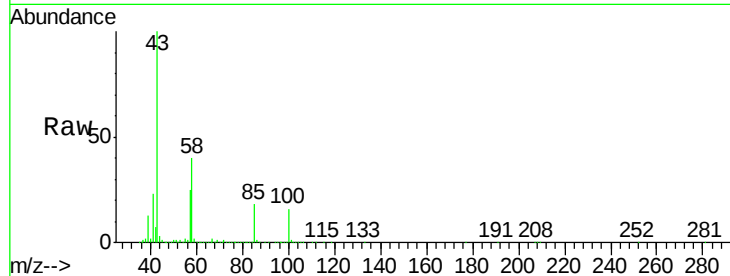
58 40.0 29.0 43.6

Manual Integrations

APPROVED

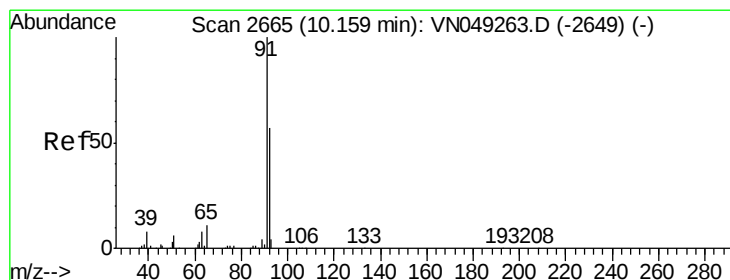
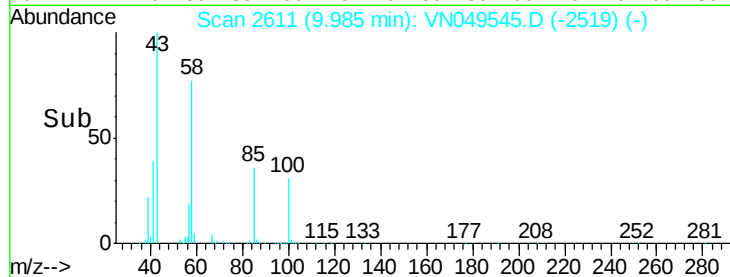
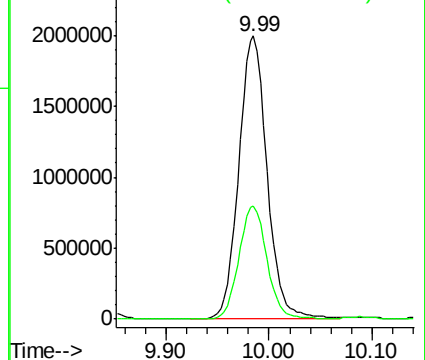
MMDadoda

6/27/2018 5:29:43 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 50.39 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN049545.D

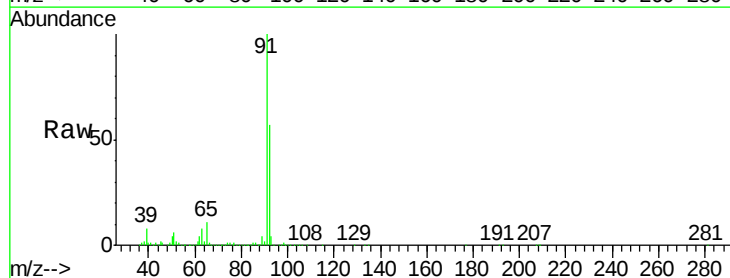
Acq: 26 Jun 2018 11:31

Tgt Ion: 92 Resp: 2662528

Ion Ratio Lower Upper

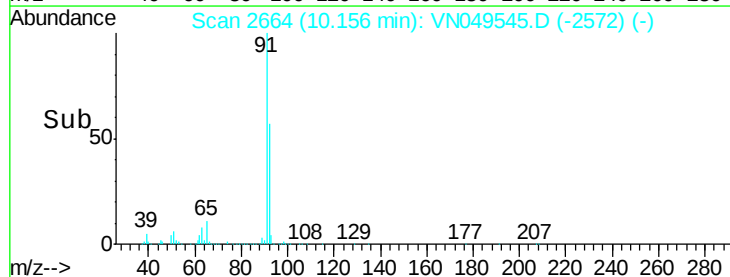
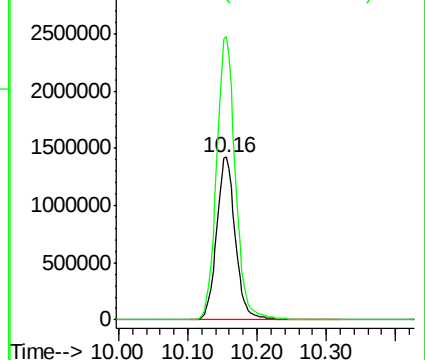
92 100

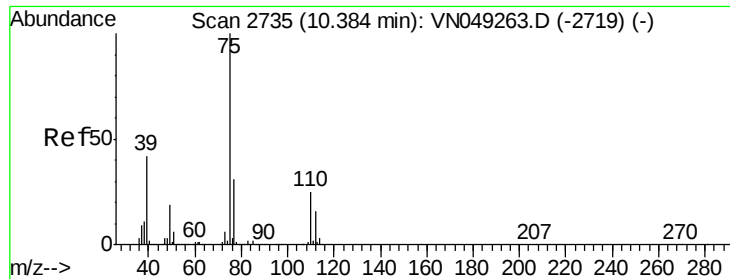
91 175.4 143.4 215.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





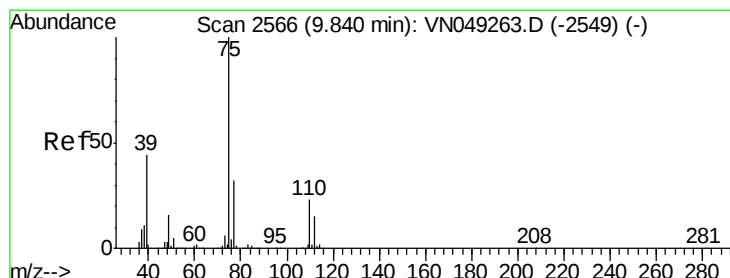
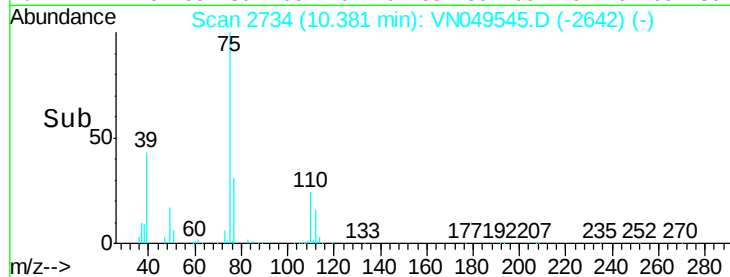
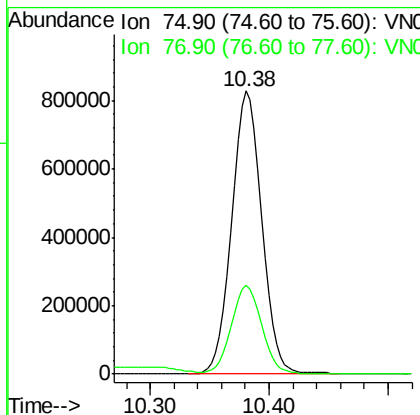
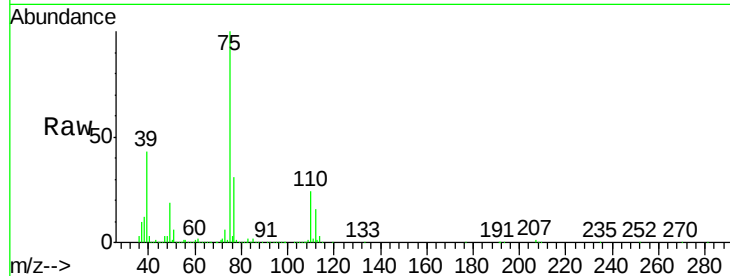
#53
t-1,3-Dichloropropene
Concen: 50.35 ug/l
RT: 10.38 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 1446734
Ion Ratio Lower Upper
75 100
77 31.0 25.2 37.8

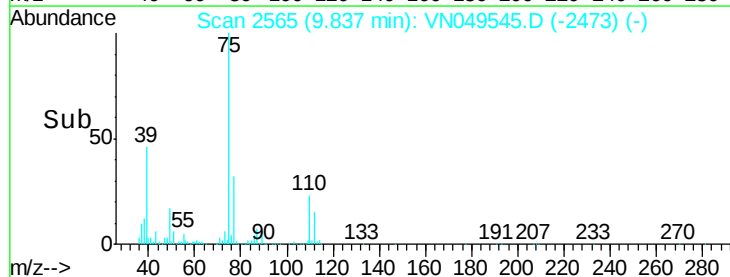
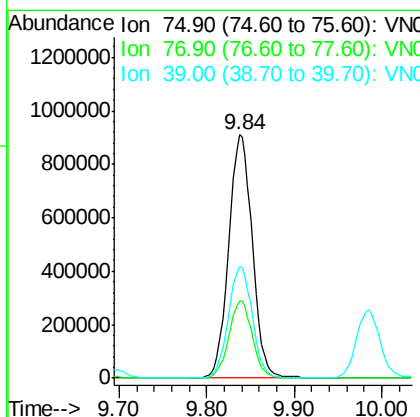
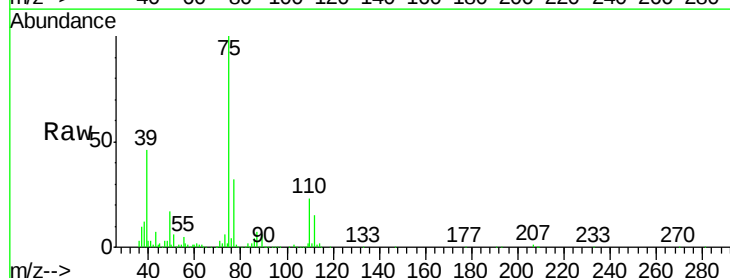
Manual Integrations
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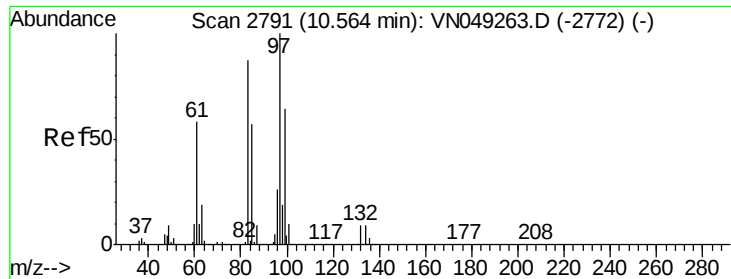
MMDadoda
6/27/2018 5:29:43 PM



#54
cis-1,3-Dichloropropene
Concen: 50.11 ug/l
RT: 9.84 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion: 75 Resp: 1700119
Ion Ratio Lower Upper
75 100
77 31.8 24.8 37.2
39 45.8 45.1 67.7





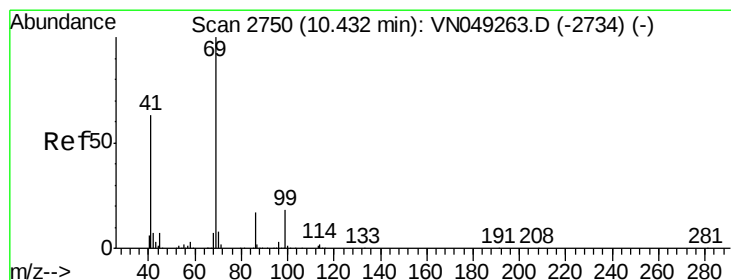
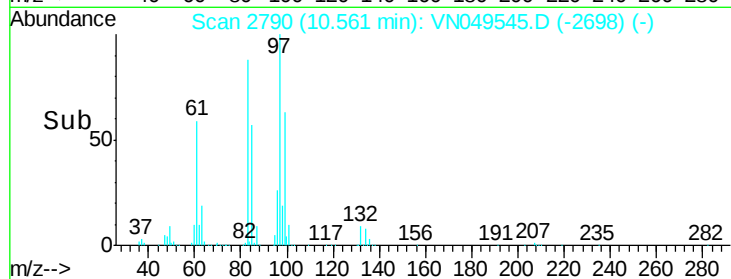
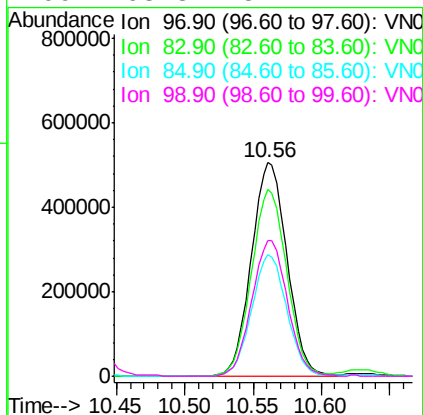
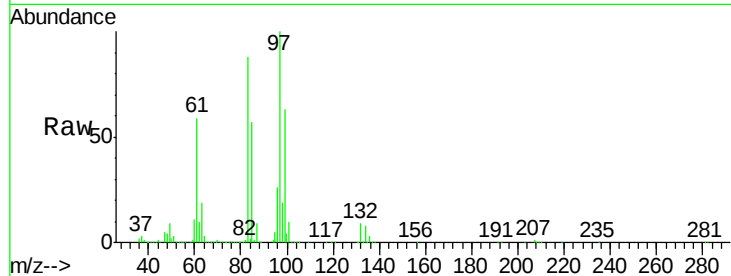
#55
 1,1,2-Trichloroethane
 Concen: 46.52 ug/l
 RT: 10.56 min Scan# 2790
 Delta R.T. -0.00 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		916375		
83	87.7	71.5	107.3		
85	56.8	47.0	70.4		
99	63.3	51.4	77.2		

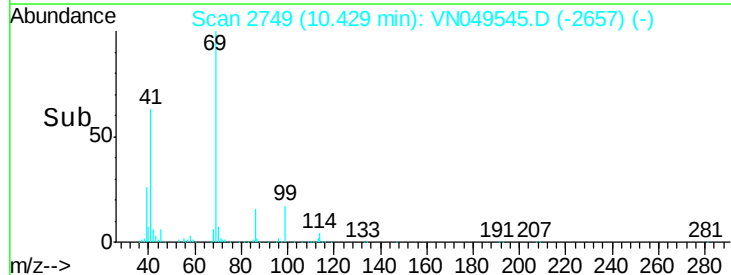
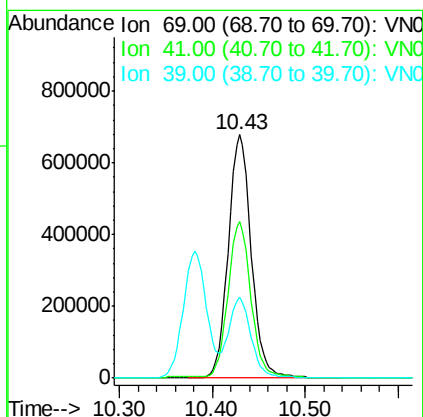
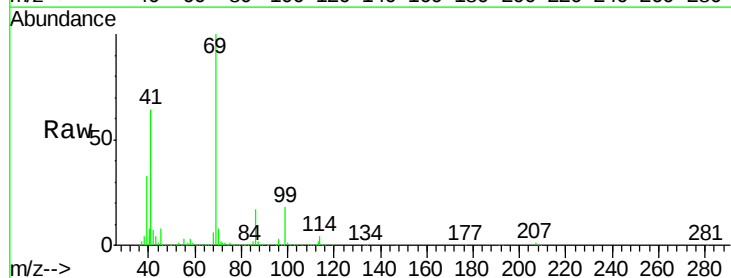
Manual Integrations
 APPROVED

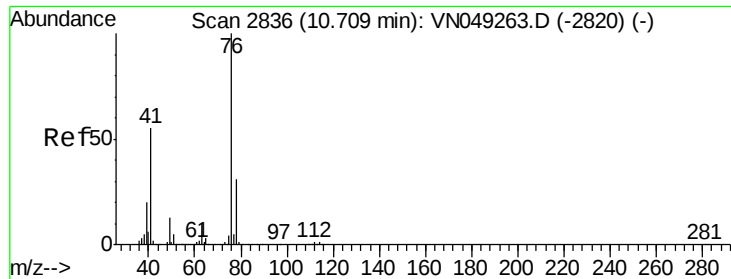
MMDadoda
 6/27/2018 5:29:43 PM



#56
 Ethyl methacrylate
 Concen: 51.19 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. -0.00 min
 Lab File: VN049545.D
 Acq: 26 Jun 2018 11:31

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		1163103		
41	63.6	58.4	87.6		
39	32.7	35.5	53.3#		





#57

1,3-Dichloropropane

Concen: 47.64 ug/l

RT: 10.71 min Scan# 2835

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 1554613

Ion Ratio Lower Upper

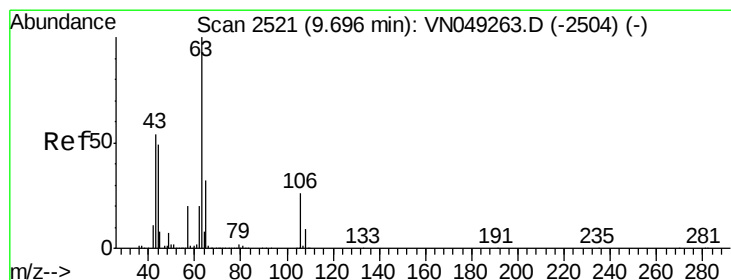
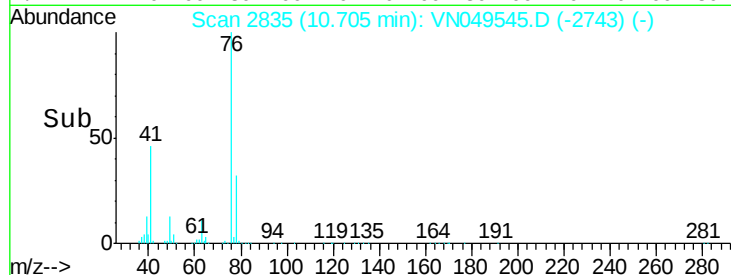
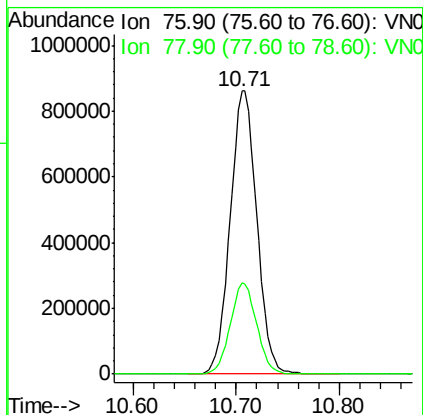
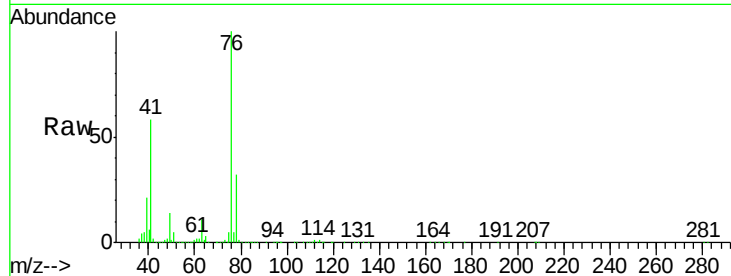
76 100

78 32.0 26.3 39.5

Manual Integrations
APPROVED

MMDadoda

6/27/2018 5:29:43 PM



#58

2-Chloroethyl Vinyl ether

Concen: 373.83 ug/l

RT: 9.69 min Scan# 2520

Delta R.T. -0.00 min

Lab File: VN049545.D

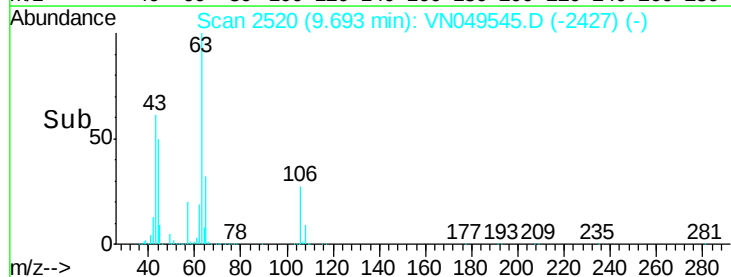
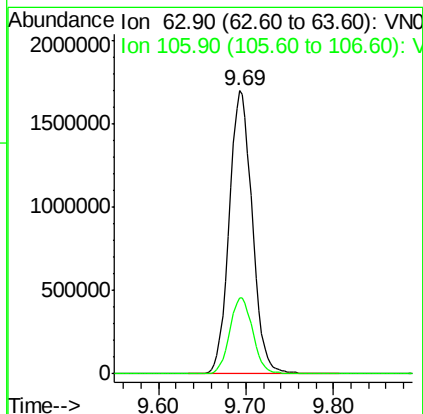
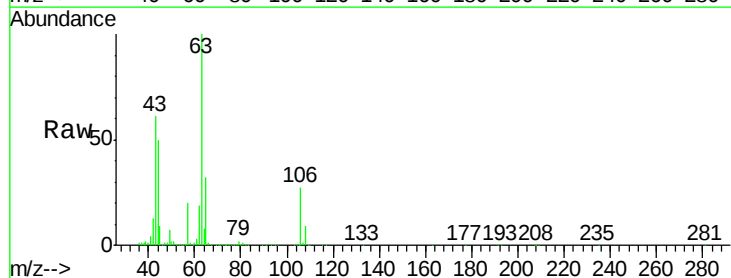
Acq: 26 Jun 2018 11:31

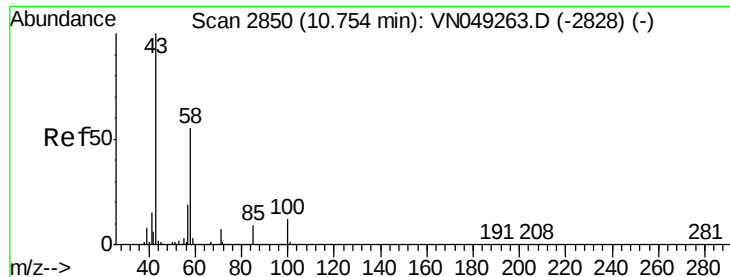
Tgt Ion: 63 Resp: 3098057

Ion Ratio Lower Upper

63 100

106 27.1 19.4 29.2





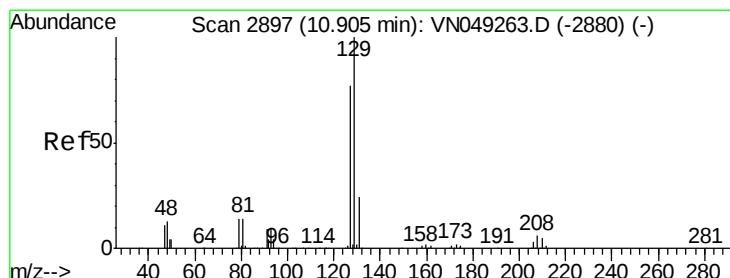
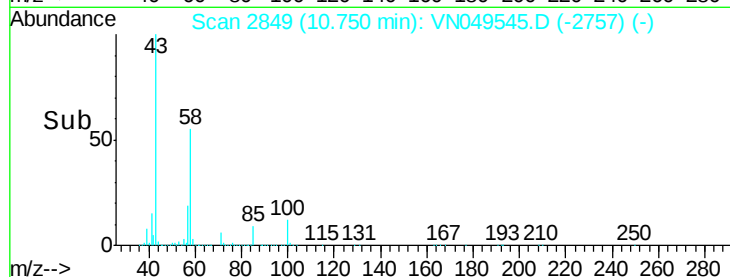
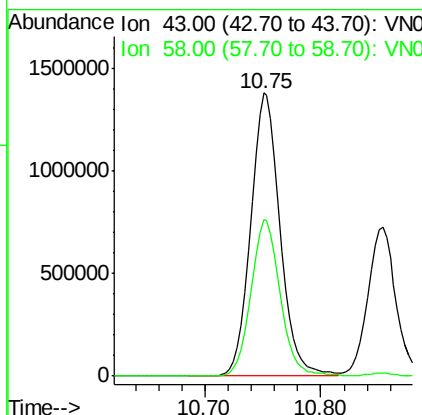
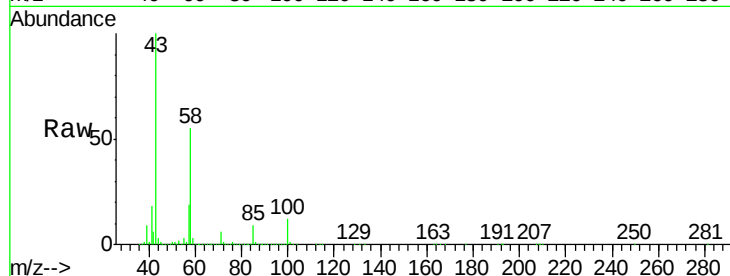
#59
2-Hexanone
Concen: 235.70 ug/l
RT: 10.75 min Scan# 2849
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 2429047
Ion Ratio Lower Upper
43 100
58 55.3 25.2 75.6

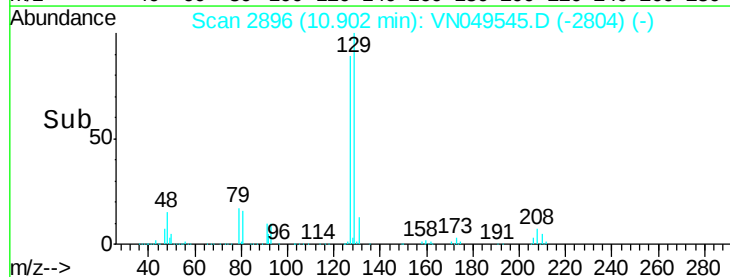
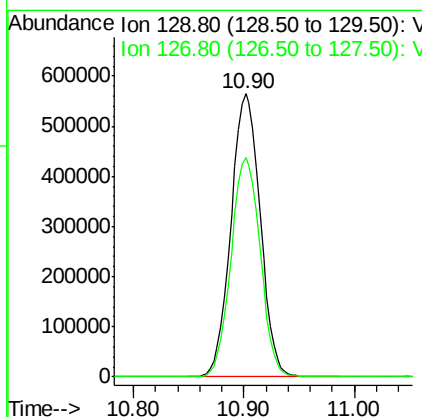
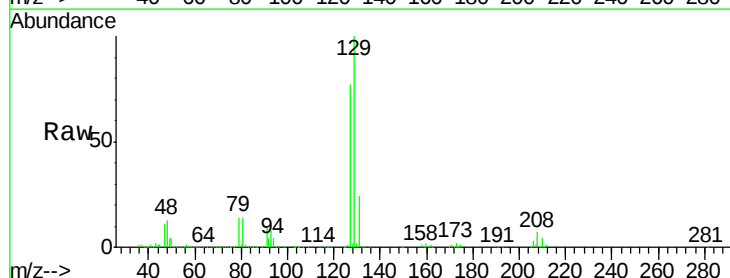
Manual Integrations
APPROVED

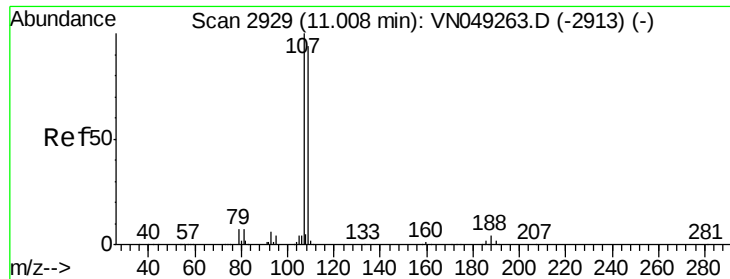
MMDadoda
6/27/2018 5:29:43 PM



#60
Dibromochloromethane
Concen: 47.29 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion: 129 Resp: 1039624
Ion Ratio Lower Upper
129 100
127 77.2 39.1 117.2





#61

1,2-Dibromoethane

Concen: 49.31 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 902853

Ion Ratio Lower Upper

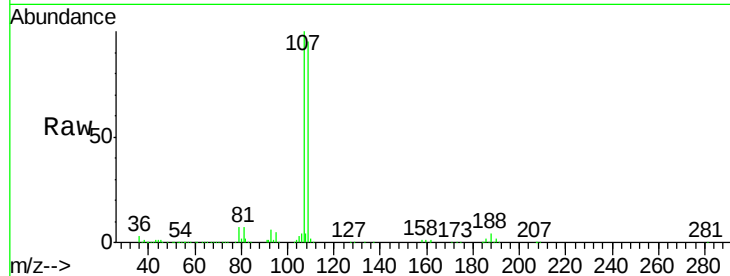
107 100

109 95.1 75.4 113.2

Manual Integrations
APPROVED

MMDadoda

6/27/2018 5:29:43 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

500000

400000

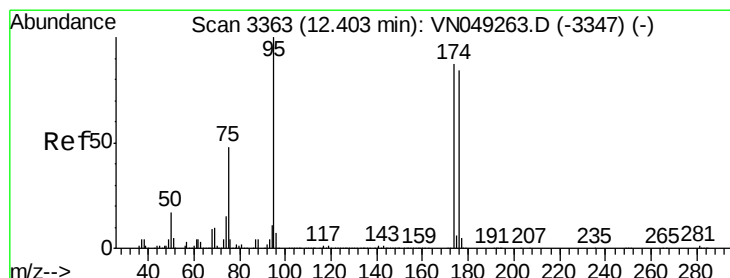
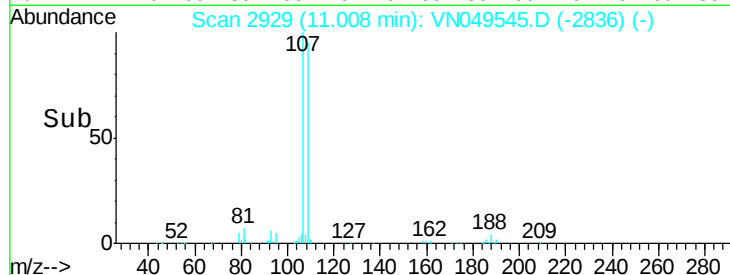
300000

200000

100000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 48.88 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

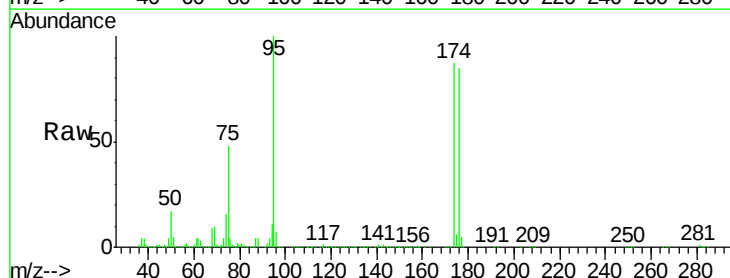
Tgt Ion: 95 Resp: 1275616

Ion Ratio Lower Upper

95 100

174 88.6 0.0 165.6

176 85.7 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

1000000

800000

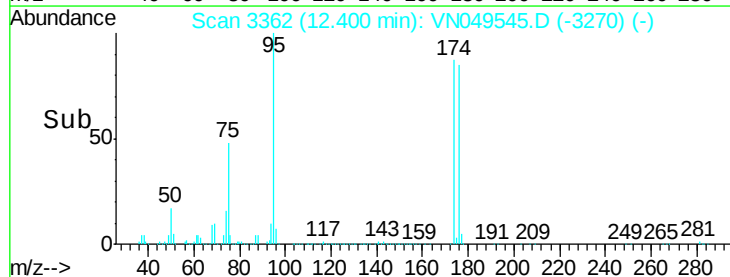
600000

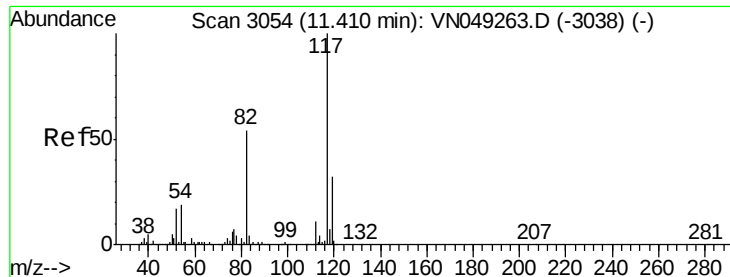
400000

200000

0

Time--> 12.30 12.40





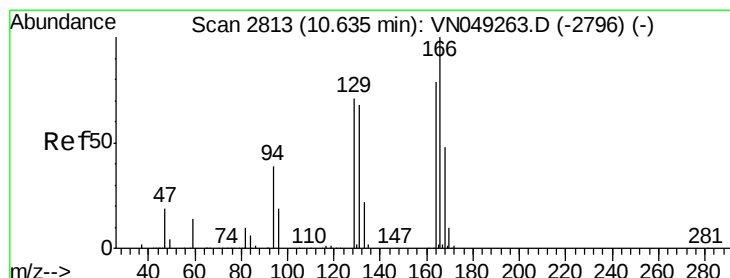
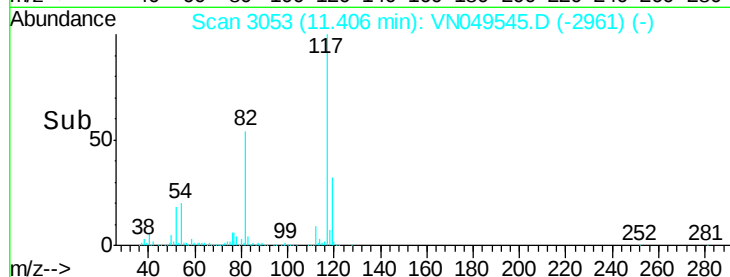
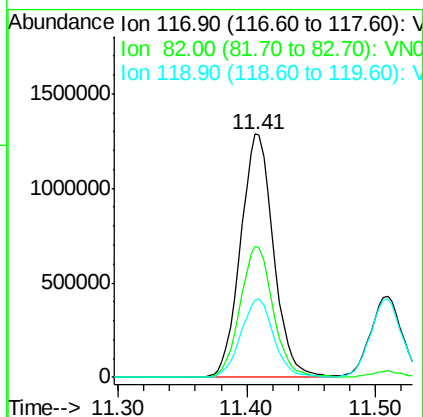
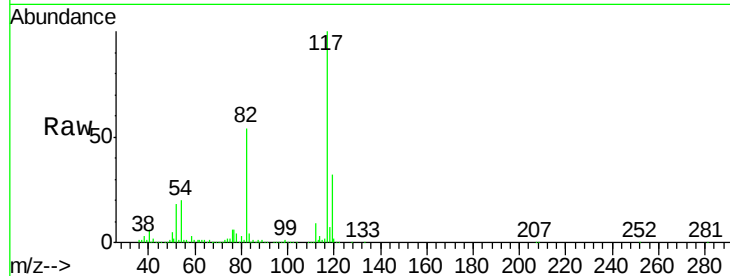
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 2296815
Ion Ratio Lower Upper
117 100
82 54.0 45.9 68.9
119 31.9 25.5 38.3

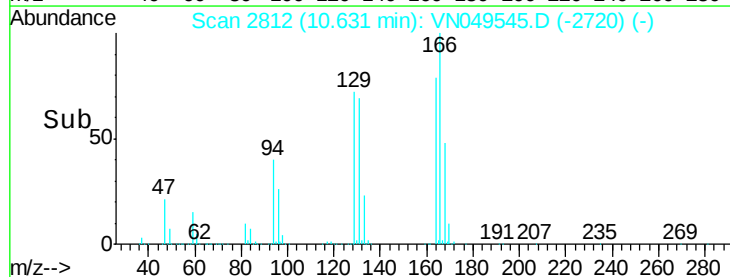
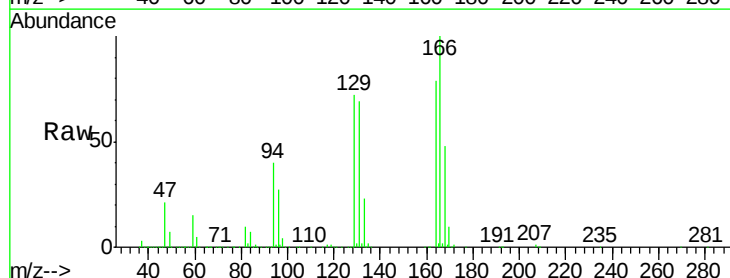
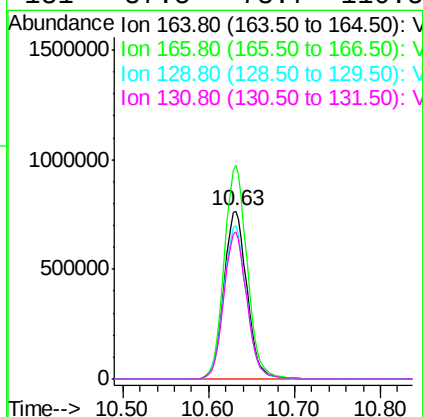
Manual Integrations
APPROVED

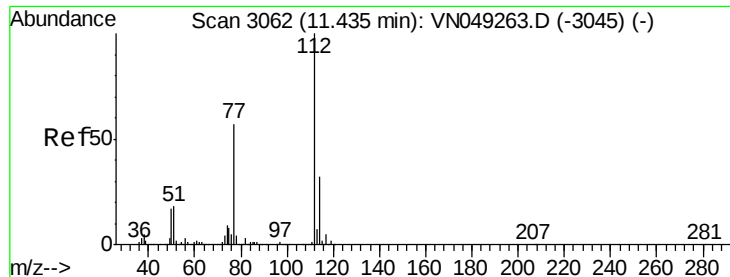
MMDadoda
6/27/2018 5:29:43 PM



#64
Tetrachloroethene
Concen: 60.14 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion:164 Resp: 1415467
Ion Ratio Lower Upper
164 100
166 126.9 101.4 152.2
129 90.9 74.1 111.1
131 87.5 73.7 110.5





#65

Chlorobenzene

Concen: 49.68 ug/l

RT: 11.43 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 2939334

Ion Ratio Lower Upper

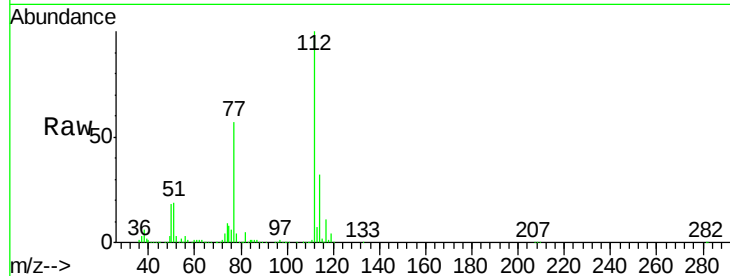
112 100

114 31.8 26.2 39.4

Manual Integrations
APPROVED

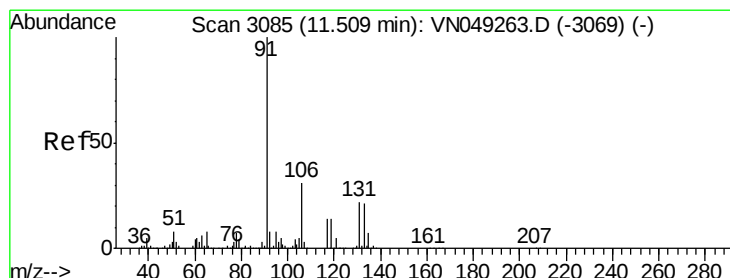
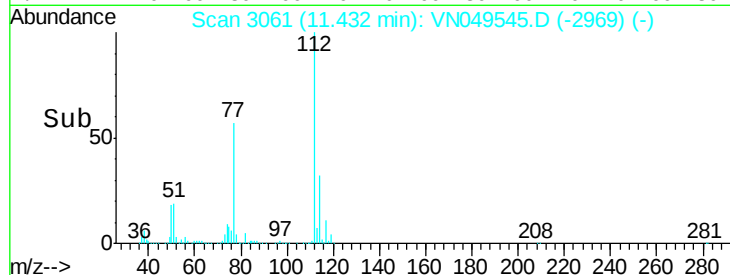
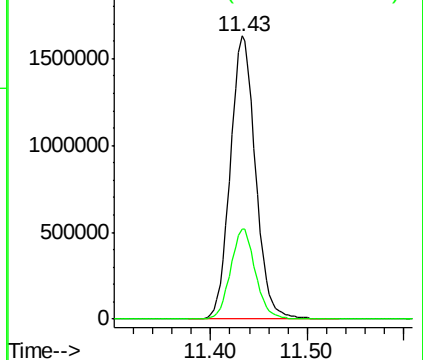
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 47.71 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

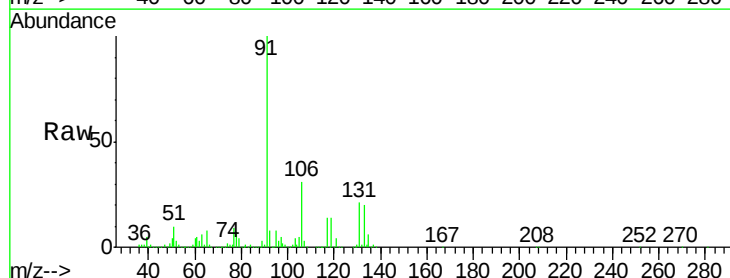
Tgt Ion:131 Resp: 1062217

Ion Ratio Lower Upper

131 100

133 95.7 48.0 144.2

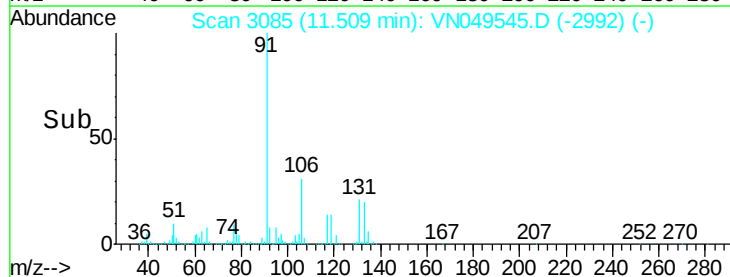
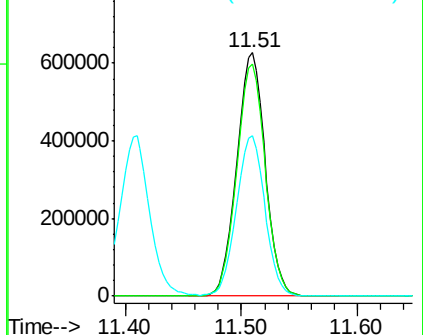
119 66.3 33.6 100.8

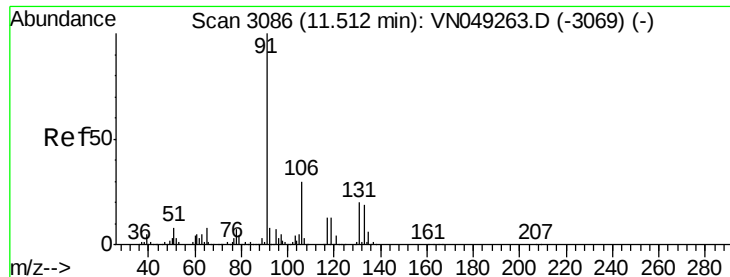


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 52.11 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 5114477

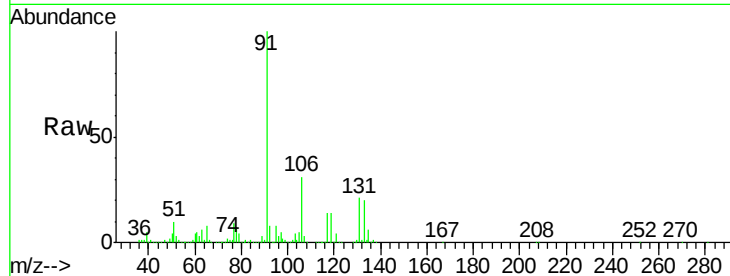
Ion Ratio Lower Upper

91 100

106 30.7 23.9 35.9

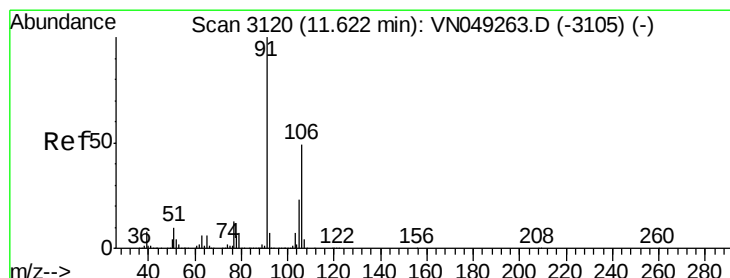
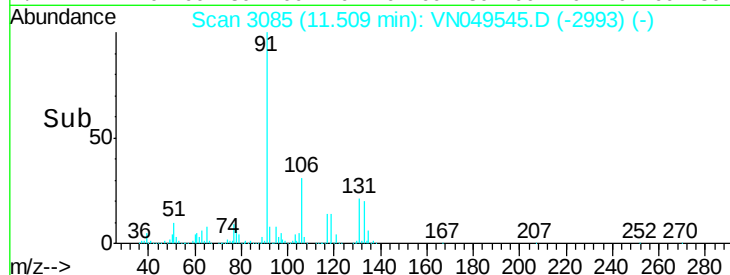
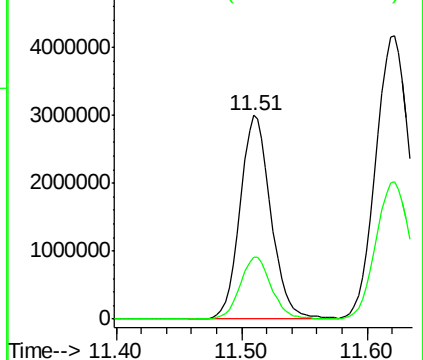
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN049263.D (-3069) (-)

Ion 106.00 (105.70 to 106.70): VN049263.D (-3069) (-)



#68

m/p-Xylenes

Concen: 107.17 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN049545.D

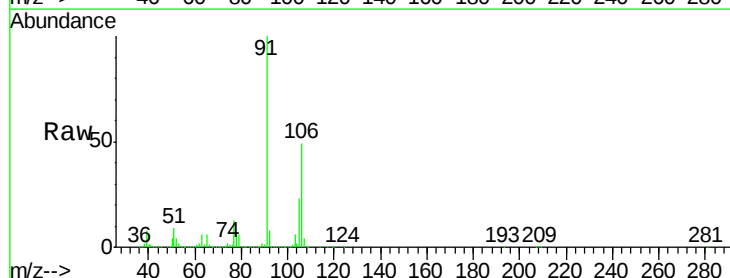
Acq: 26 Jun 2018 11:31

Tgt Ion: 106 Resp: 3947332

Ion Ratio Lower Upper

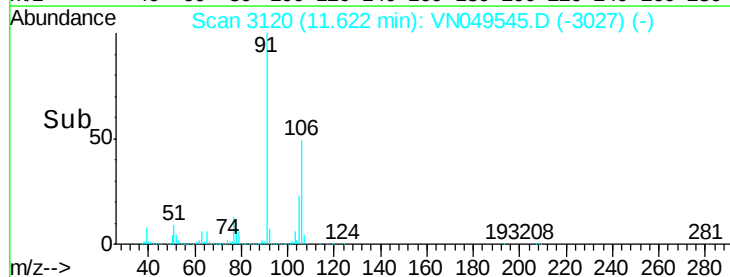
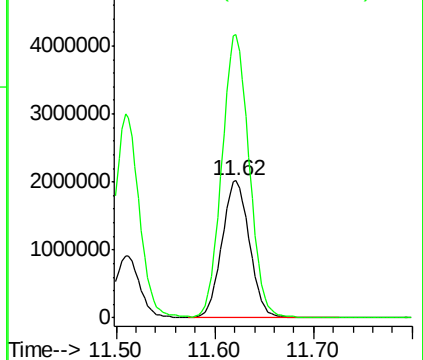
106 100

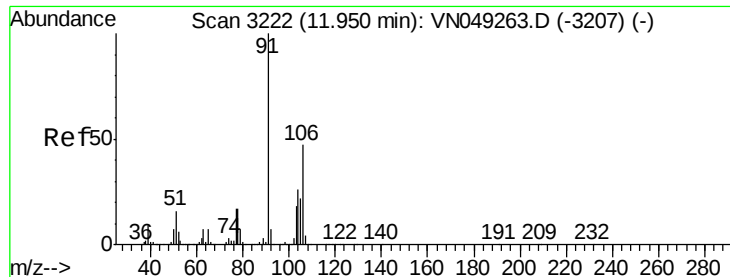
91 204.8 167.3 250.9



Abundance Ion 106.00 (105.70 to 106.70): VN049263.D (-3105) (-)

Ion 91.00 (90.70 to 91.70): VN049263.D (-3105) (-)





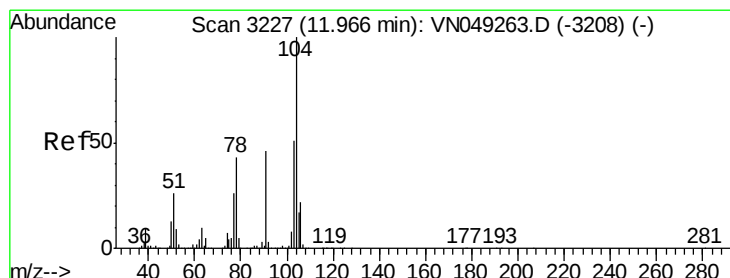
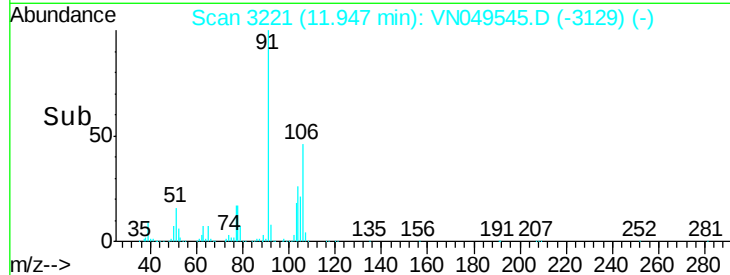
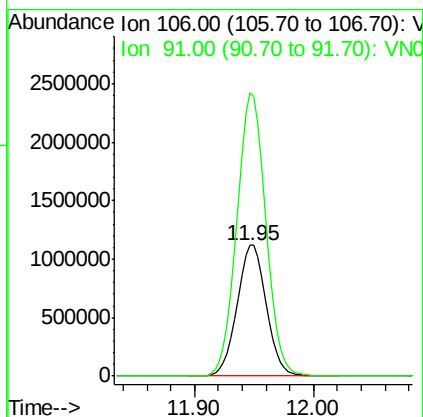
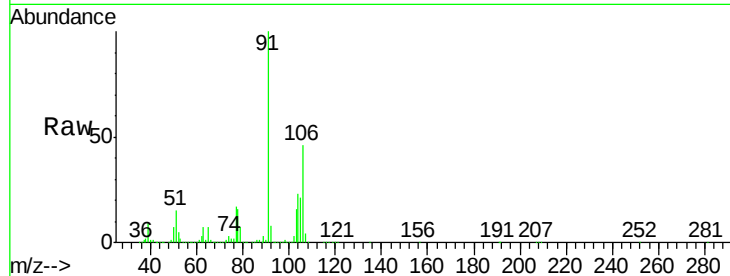
#69
o-Xylene
Concen: 53.46 ug/l
RT: 11.95 min Scan# 3221
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:106 Resp: 1896616
Ion Ratio Lower Upper
106 100
91 215.0 111.0 333.0

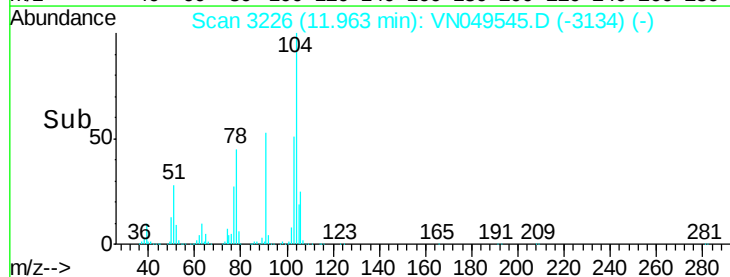
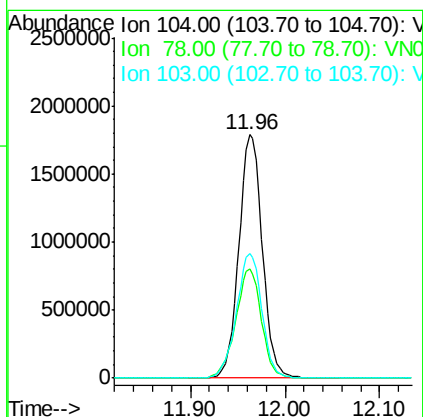
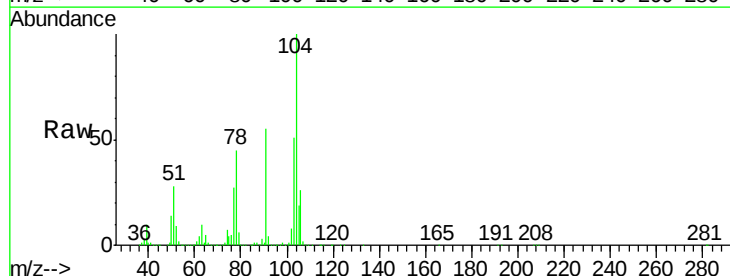
Manual Integrations
APPROVED

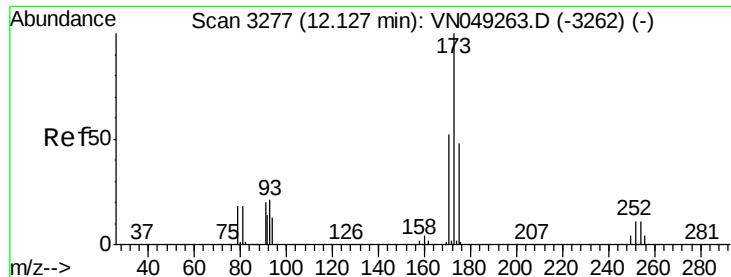
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#70
Styrene
Concen: 54.95 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion:104 Resp: 3075203
Ion Ratio Lower Upper
104 100
78 49.2 41.6 62.4
103 55.6 45.4 68.2





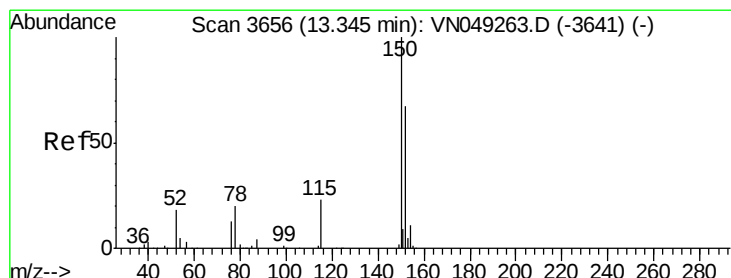
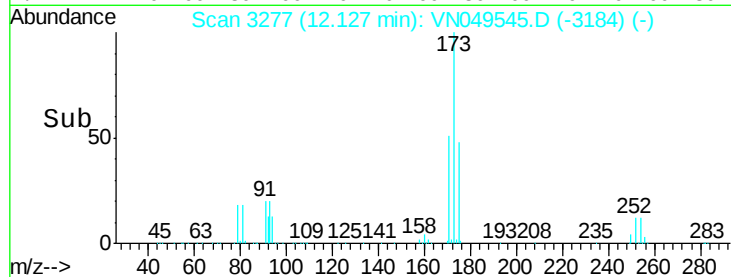
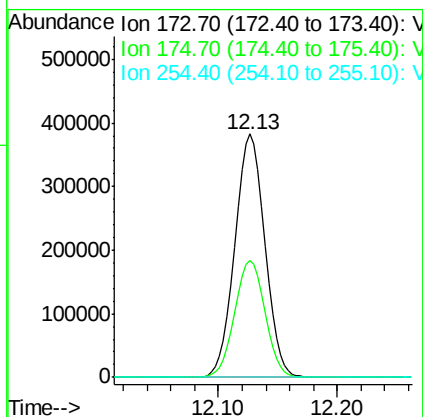
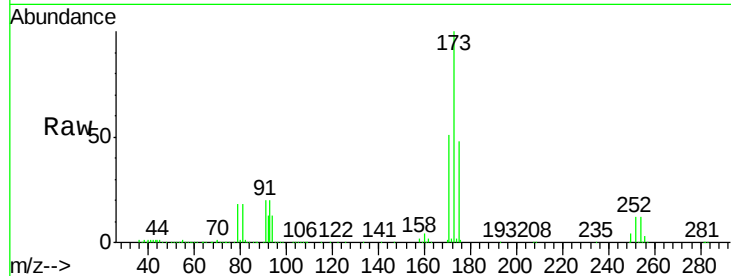
#71
Bromoform
Concen: 46.31 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.5	73.5
254	0.1	0.1	0.1#

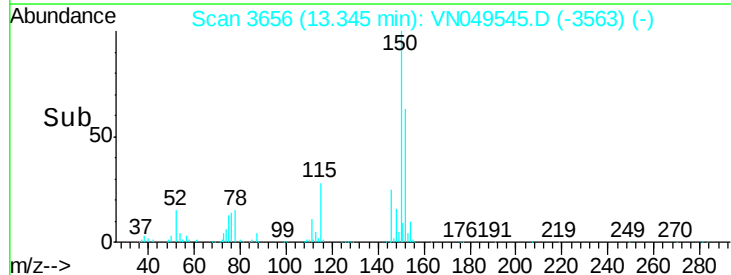
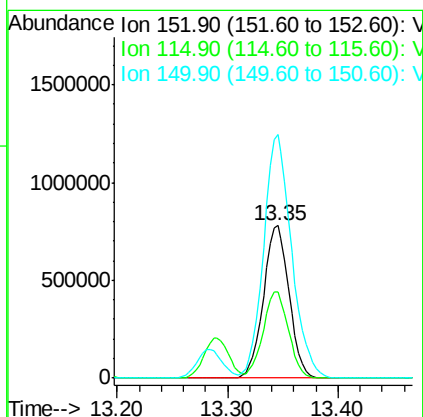
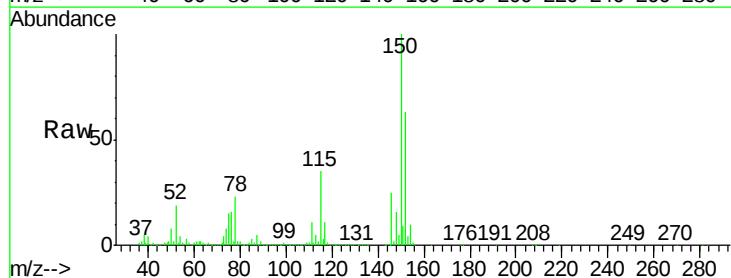
Manual Integrations
APPROVED

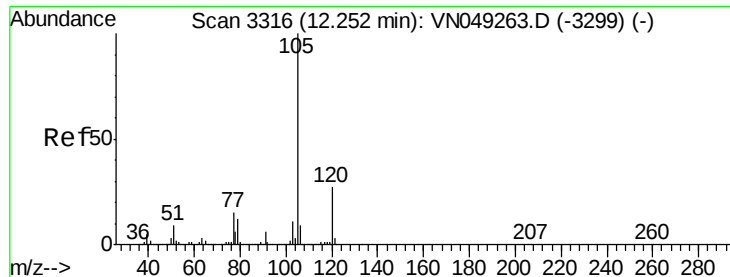
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.7	28.7	86.1
150	175.1	0.0	351.0





#73

Isopropylbenzene

Concen: 45.48 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 5019486

Ion Ratio Lower Upper

105 100

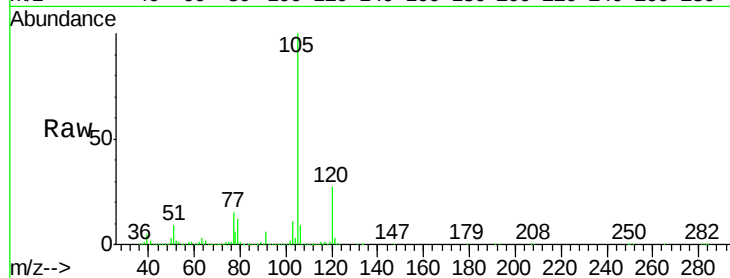
120 26.7 12.8 38.3

Manual Integrations

APPROVED

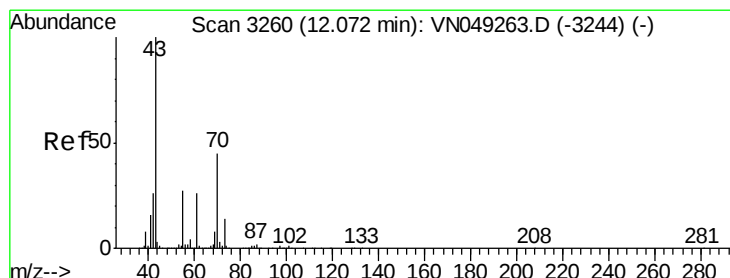
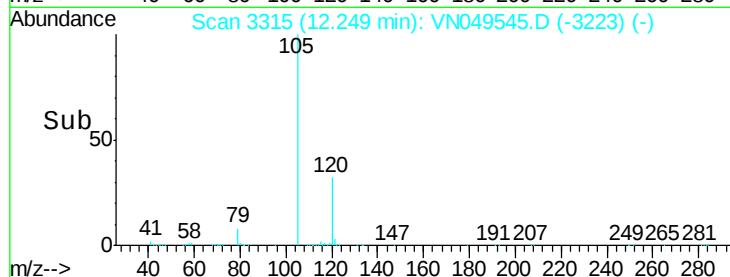
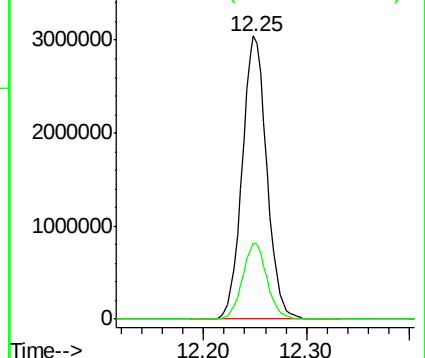
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 50.23 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Tgt Ion: 43 Resp: 1357829

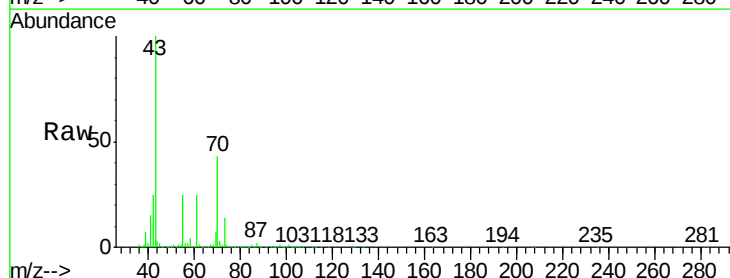
Ion Ratio Lower Upper

43 100

70 42.9 30.3 45.5

55 24.8 19.4 29.2

61 24.8 17.8 26.6

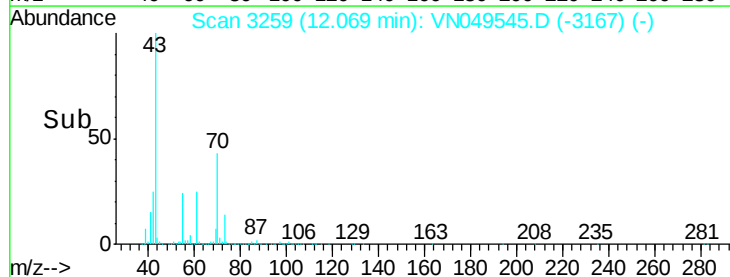
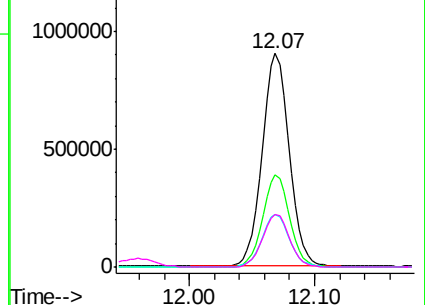


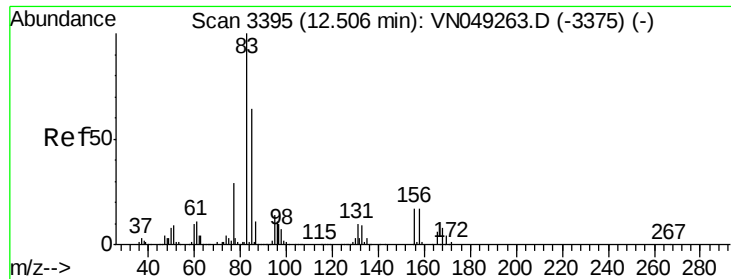
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 43.46 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

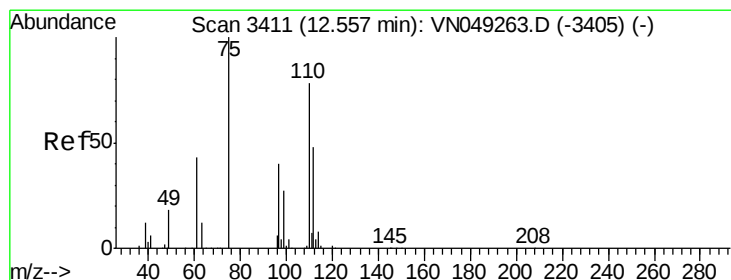
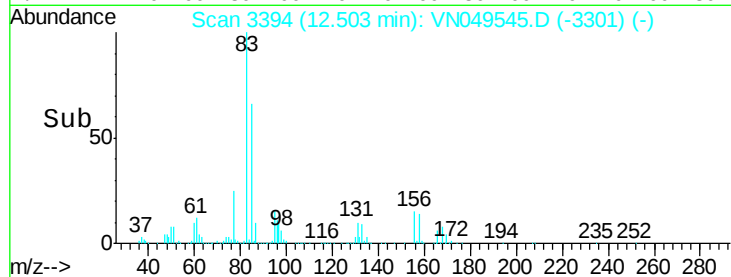
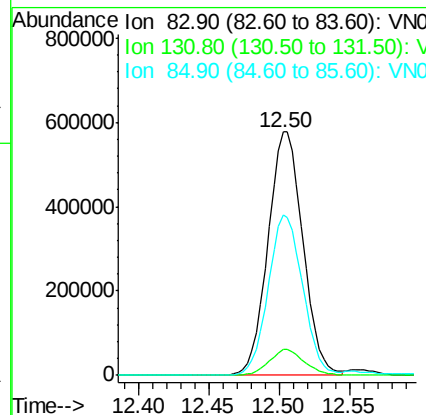
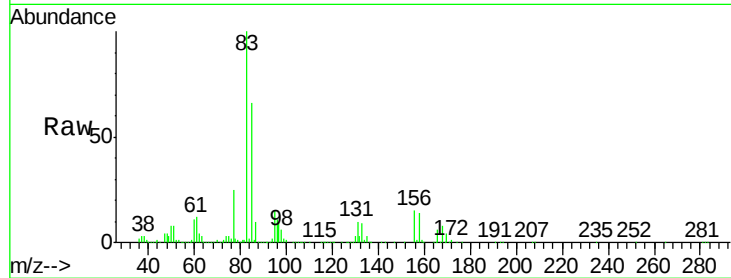
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	993333
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.0	15.0
85	64.9	32.0	96.0

Manual Integrations
APPROVED

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6/27/2018 5:29:43 PM



#76

1,2,3-Trichloropropane

Concen: 41.66 ug/l m

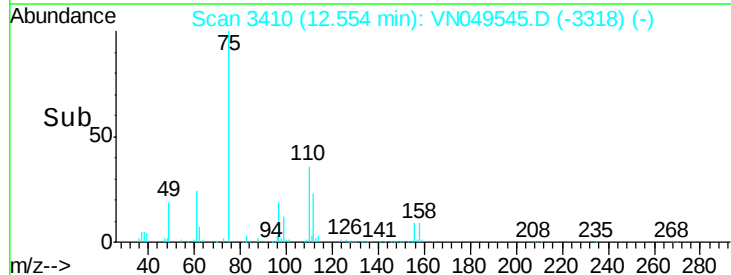
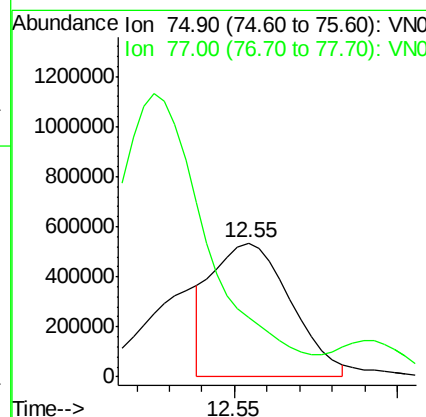
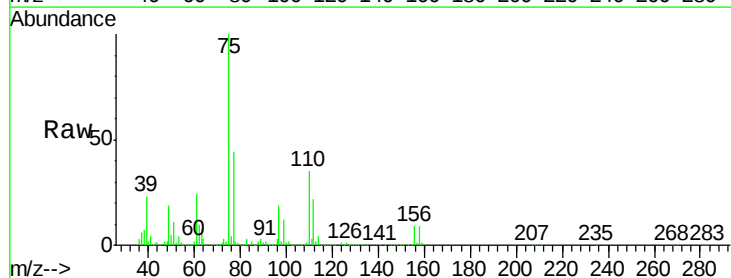
RT: 12.55 min Scan# 3410

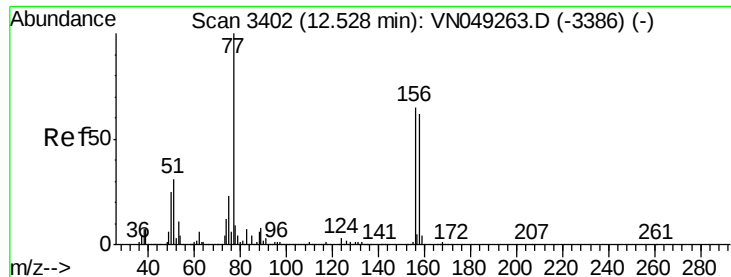
Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Tgt Ion:	75	Resp:	893549
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 43.12 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:156 Resp: 1257046

Ion Ratio Lower Upper

156 100

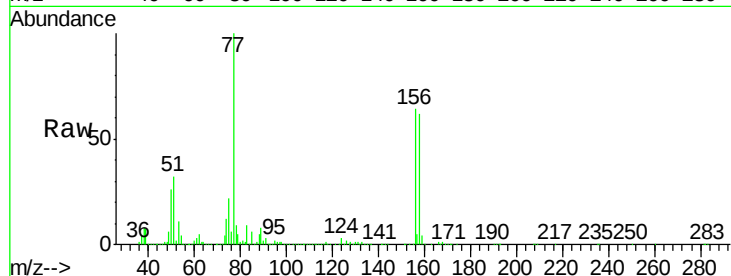
77 181.1 100.8 302.4

158 97.4 49.3 147.9

Manual Integrations
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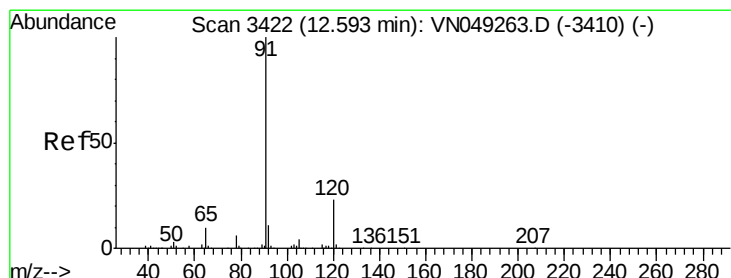
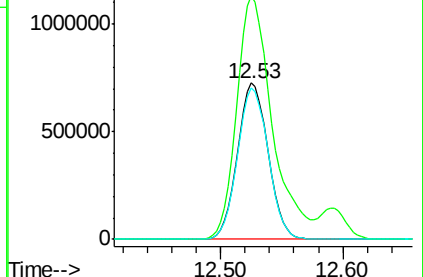
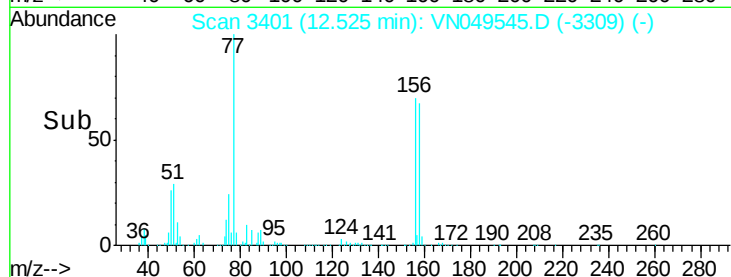
6/27/2018 5:29:43 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 48.50 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049545.D

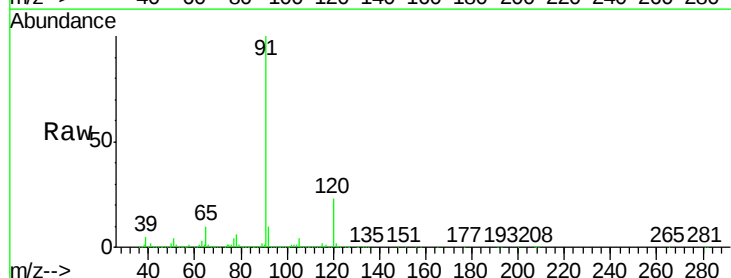
Acq: 26 Jun 2018 11:31

Tgt Ion: 91 Resp: 5877684

Ion Ratio Lower Upper

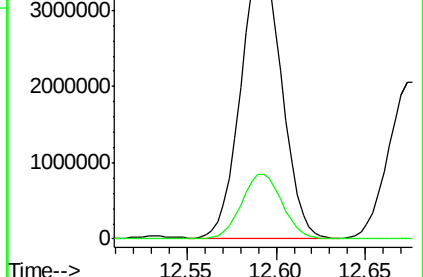
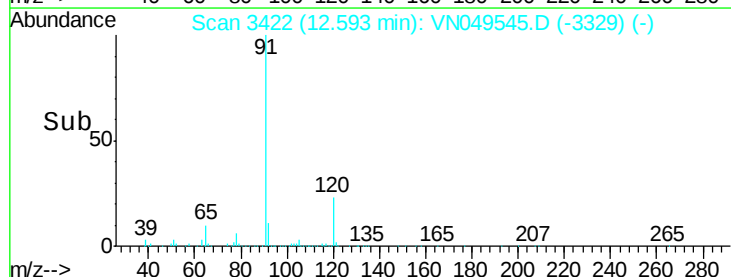
91 100

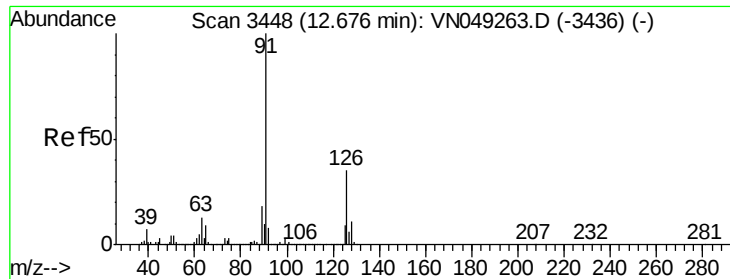
120 23.1 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 45.06 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 91 Resp: 3459731

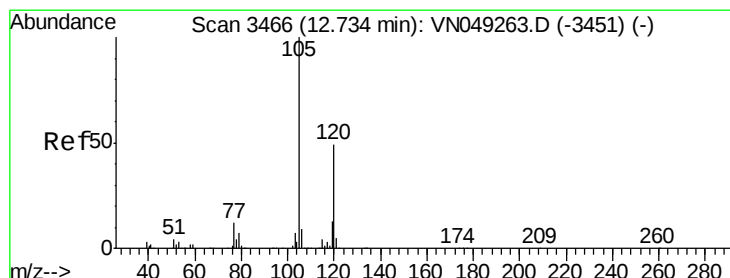
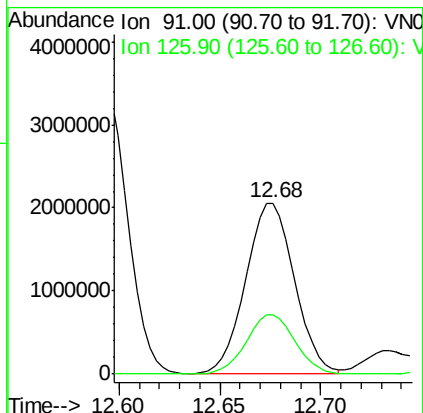
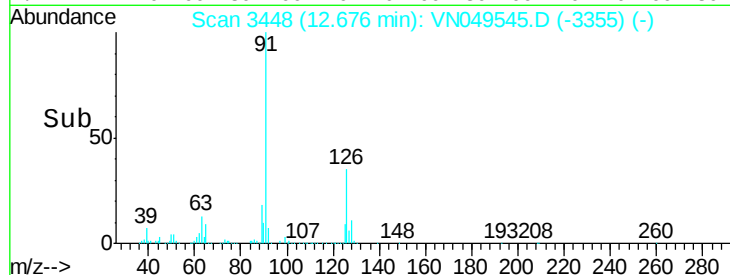
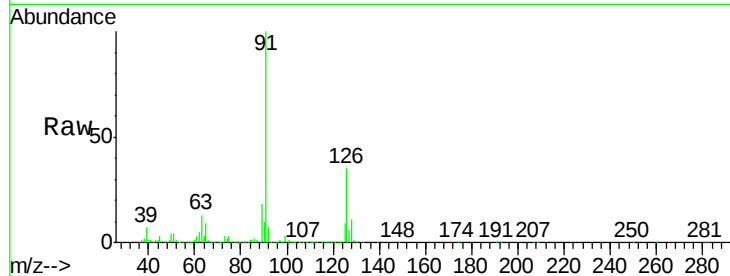
Ion Ratio Lower Upper

91 100

126 35.1 16.6 49.8

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 49.19 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049545.D

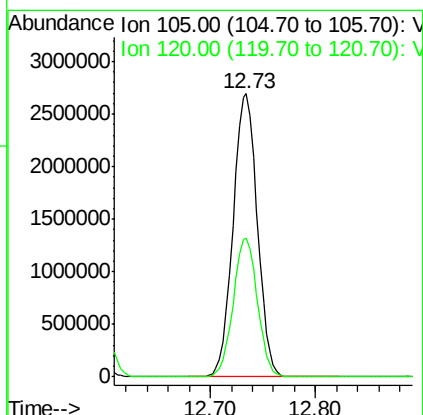
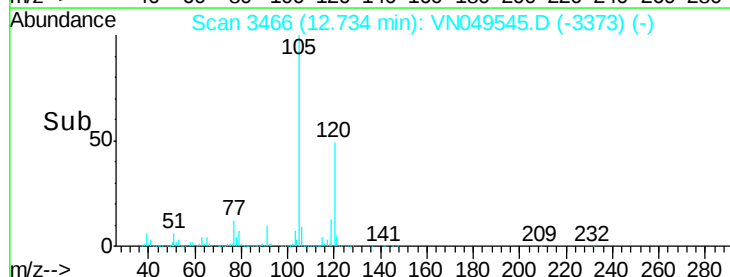
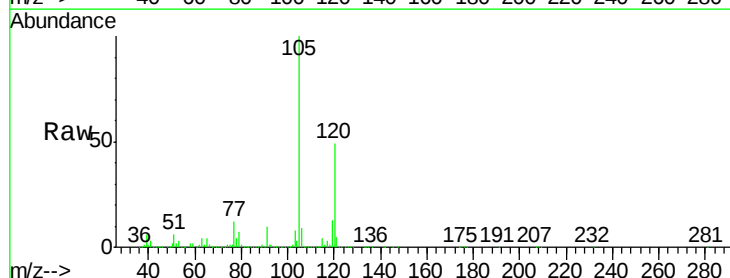
Acq: 26 Jun 2018 11:31

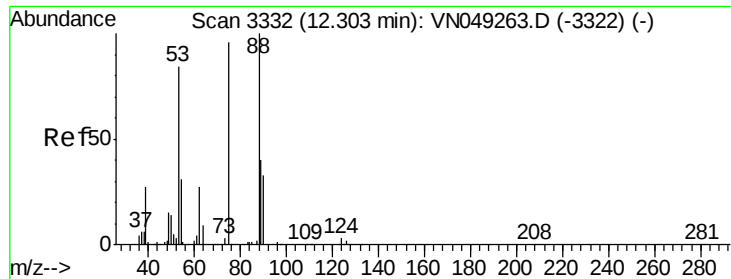
Tgt Ion: 105 Resp: 4266769

Ion Ratio Lower Upper

105 100

120 48.9 23.5 70.5





#81

trans-1,4-Dichloro-2-butene

Concen: 45.39 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

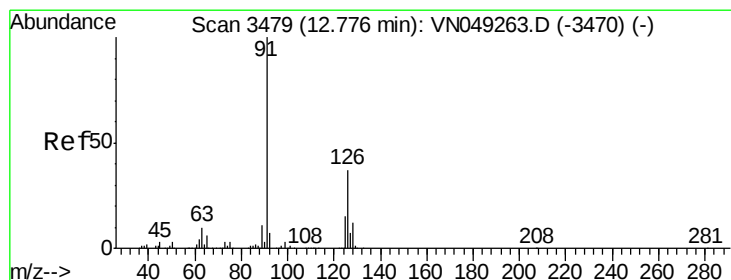
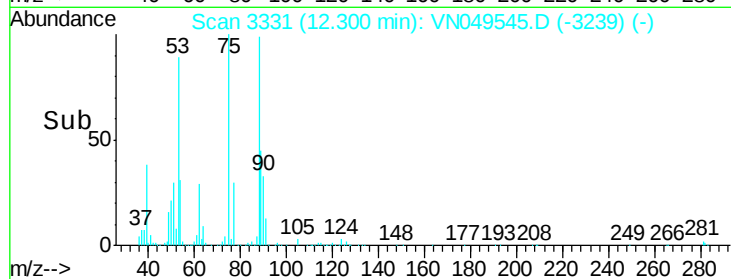
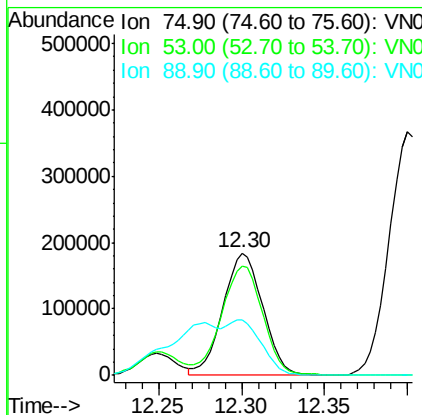
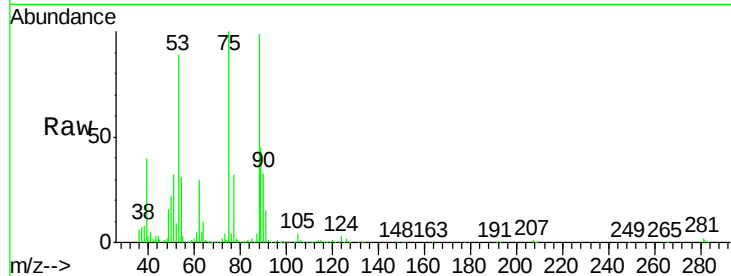
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	93.0	82.7	124.1
89	0.0	36.5	54.7#

Manual Integrations
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#82

4-Chlorotoluene

Concen: 48.48 ug/l

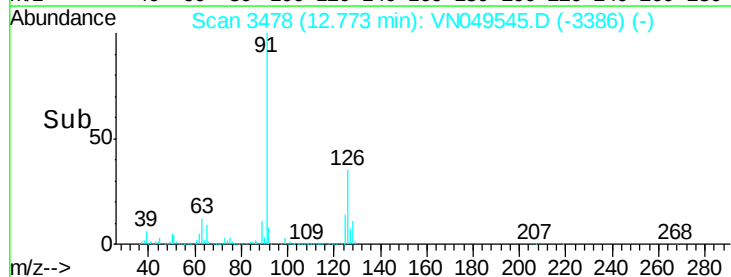
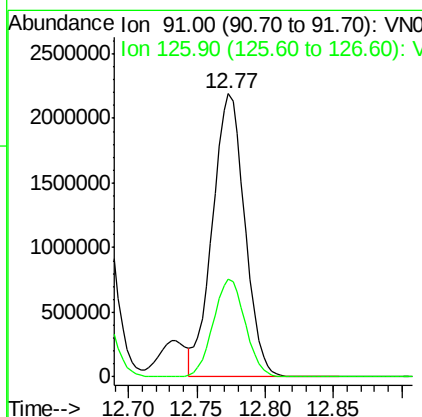
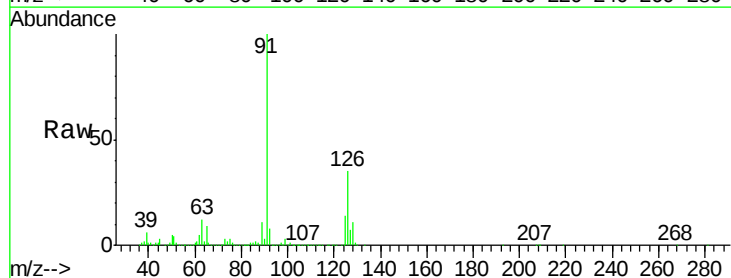
RT: 12.77 min Scan# 3478

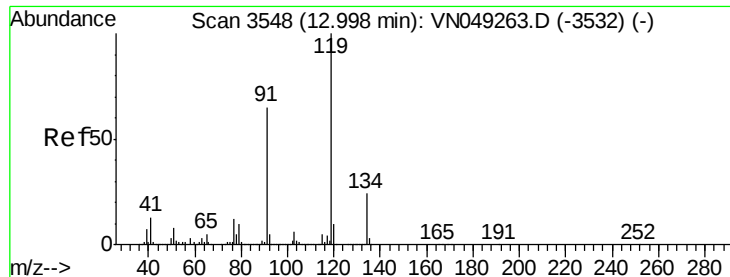
Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.3	16.4	49.1





#83

tert-Butylbenzene

Concen: 46.16 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:119 Resp: 3547157

Ion Ratio Lower Upper

119 100

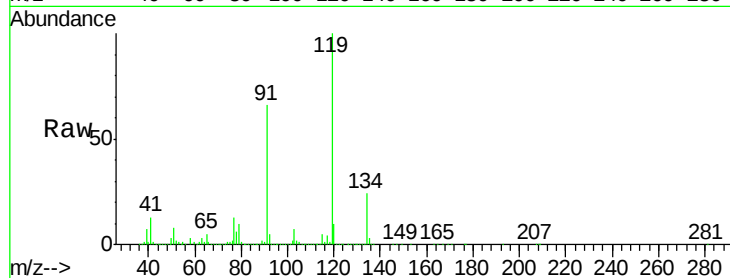
91 65.0 33.7 101.0

134 25.4 12.9 38.6

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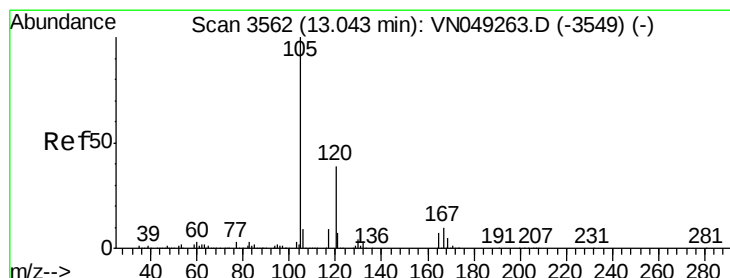
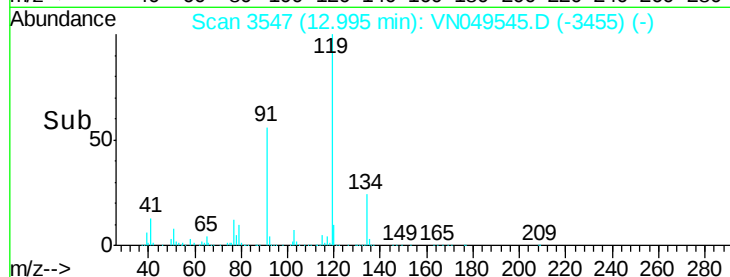
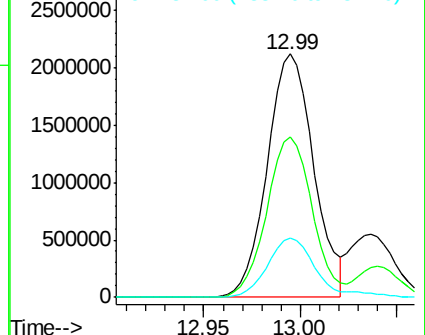
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 50.83 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. -0.00 min

Lab File: VN049545.D

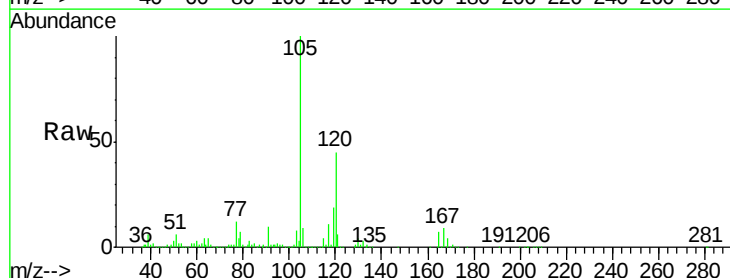
Acq: 26 Jun 2018 11:31

Tgt Ion:105 Resp: 4380440

Ion Ratio Lower Upper

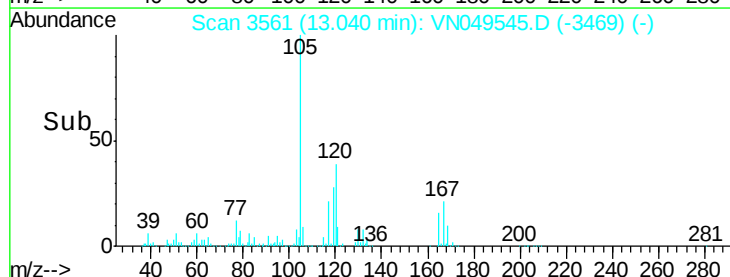
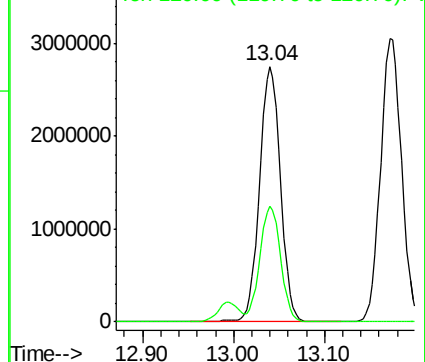
105 100

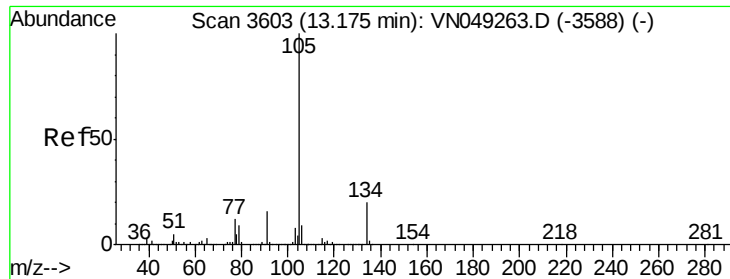
120 45.4 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 47.50 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 4859107

Ion Ratio Lower Upper

105 100

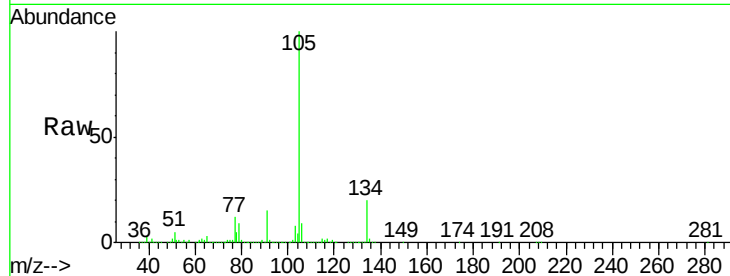
134 20.1 9.8 29.3

Manual Integrations

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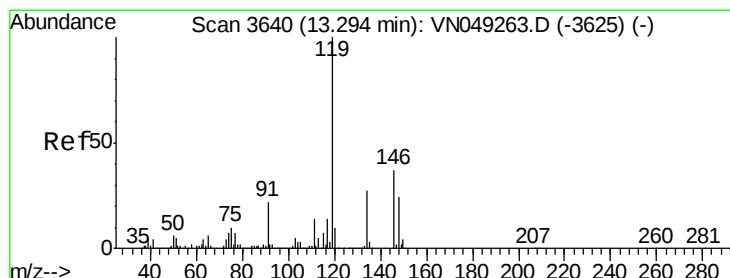
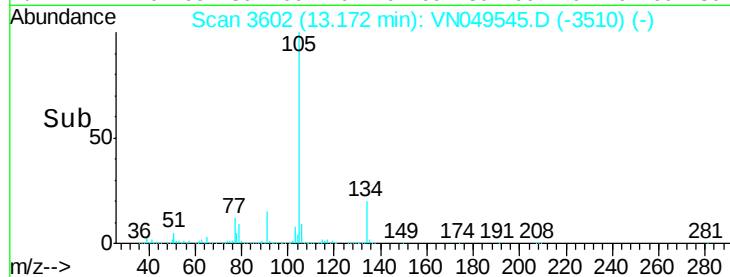
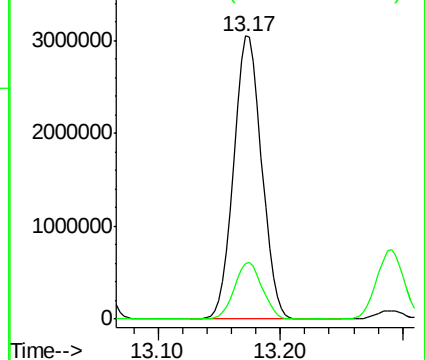
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 50.96 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

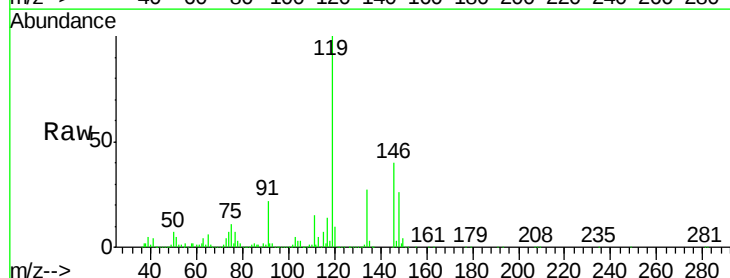
Tgt Ion:119 Resp: 4355471

Ion Ratio Lower Upper

119 100

134 26.5 12.9 38.6

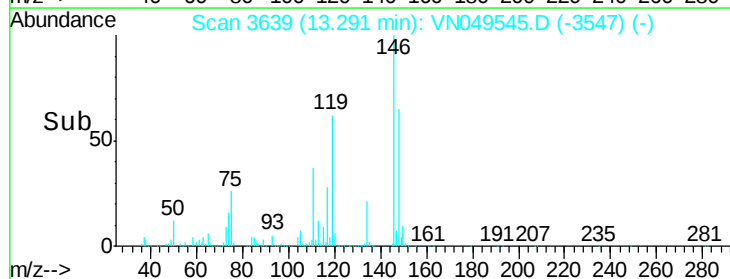
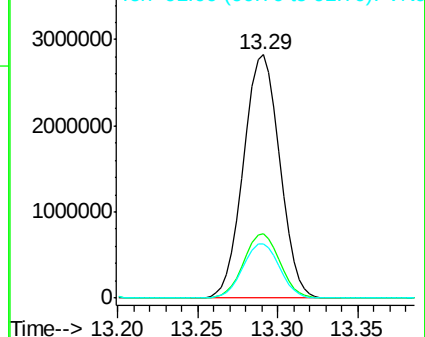
91 22.6 12.1 36.3

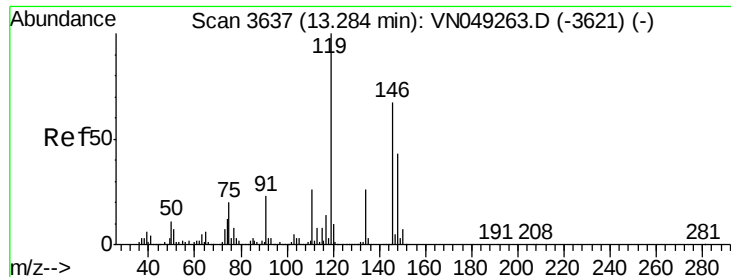


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 48.76 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:146 Resp: 2338218

Ion Ratio Lower Upper

146 100

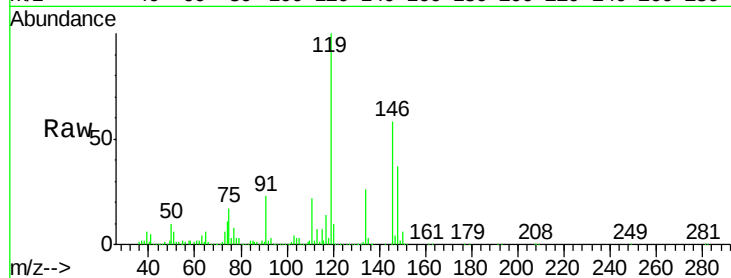
111 38.0 19.9 59.6

148 64.3 32.1 96.5

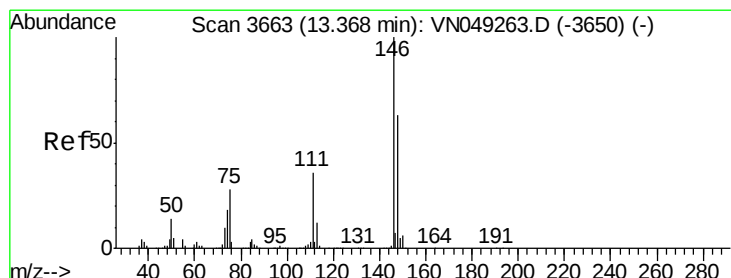
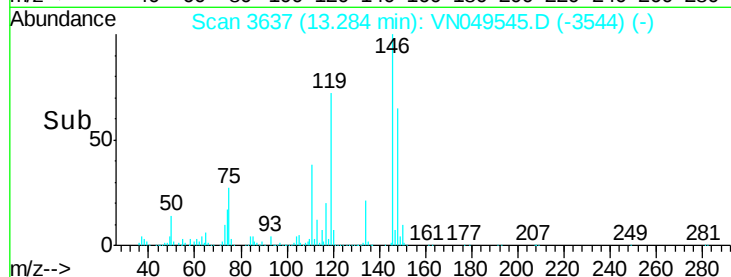
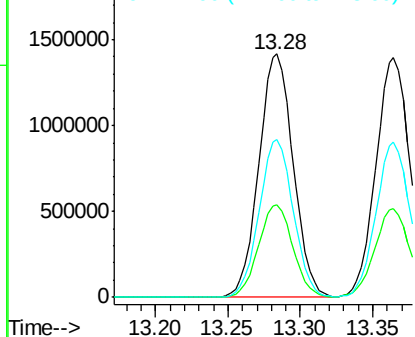
Manual Integrations
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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 48.21 ug/l

RT: 13.36 min Scan# 3662

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

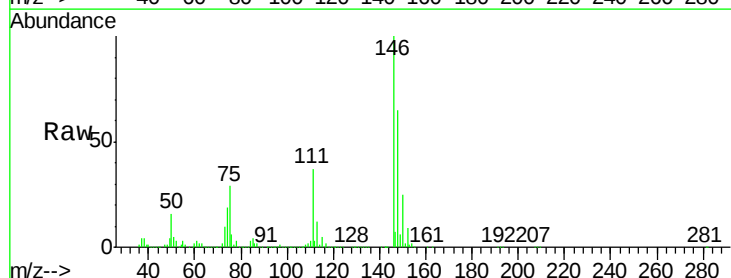
Tgt Ion:146 Resp: 2291374

Ion Ratio Lower Upper

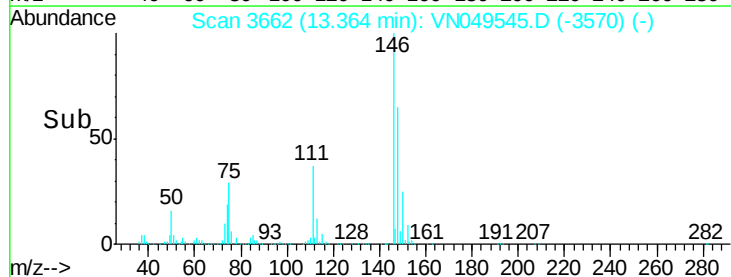
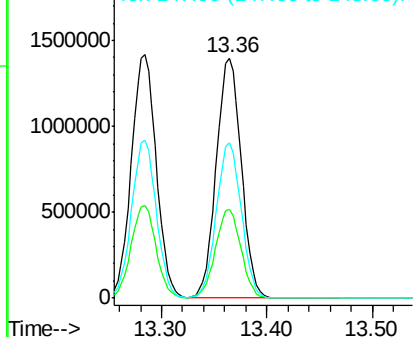
146 100

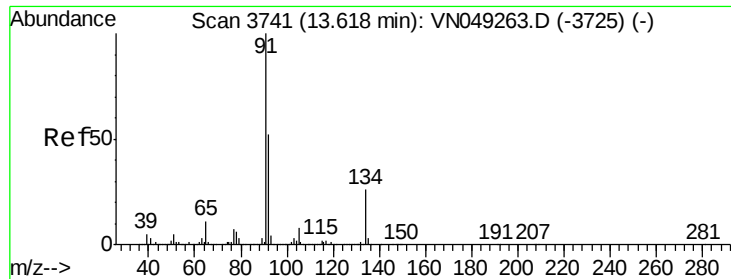
111 37.6 19.1 57.1

148 64.5 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





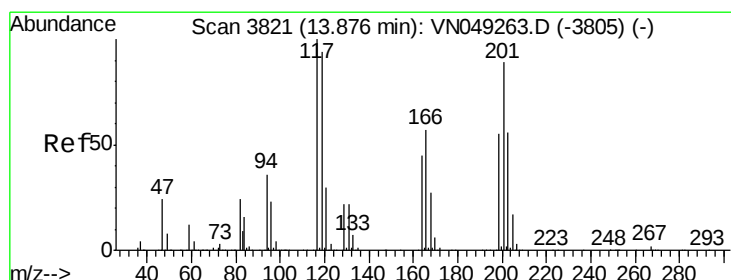
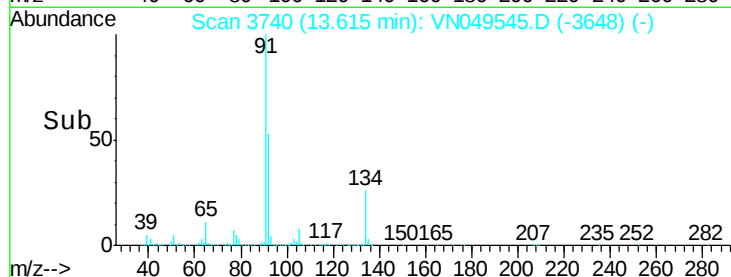
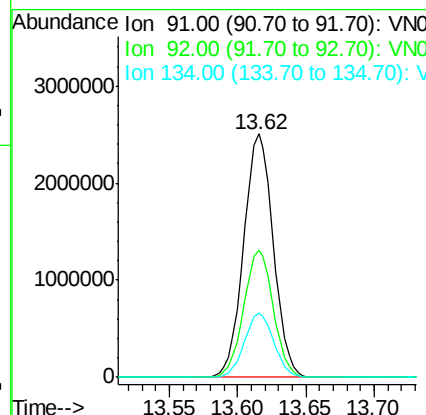
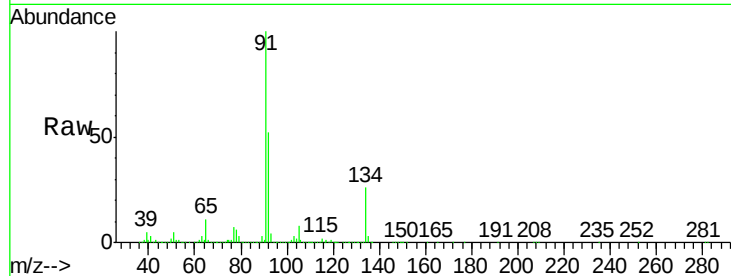
#89
n-Butylbenzene
Concen: 56.37 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	25.1	75.4
134	26.2	12.0	36.0

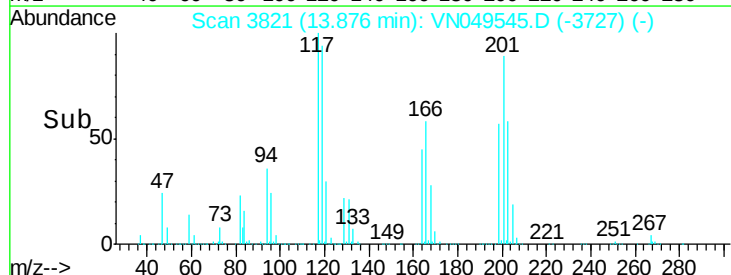
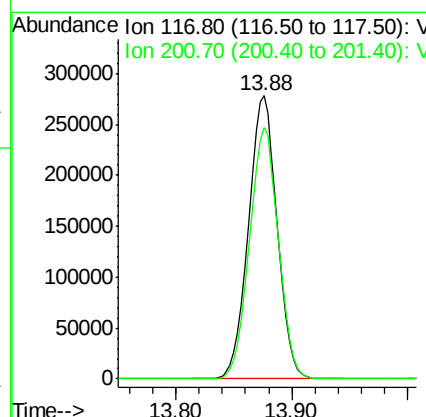
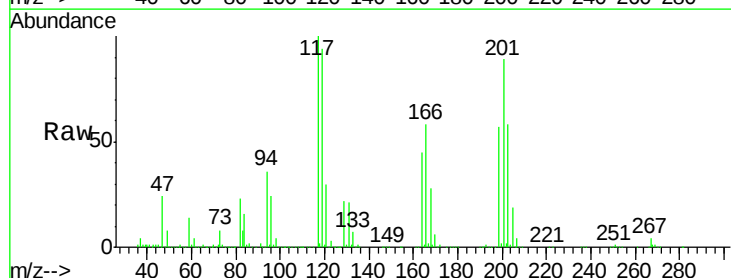
Manual Integrations
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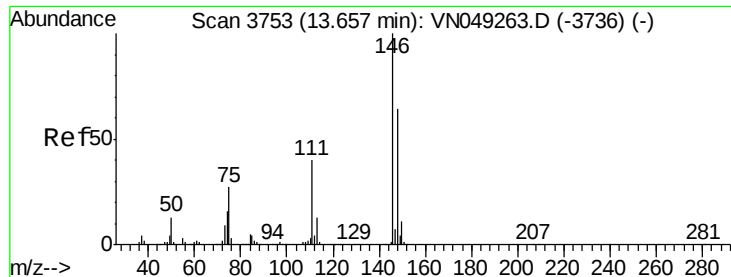
MMDadoda
6/27/2018 5:29:43 PM



#90
Hexachloroethane
Concen: 28.68 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN049545.D
Acq: 26 Jun 2018 11:31

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.0	40.1	120.2





#91

1,2-Dichlorobenzene

Concen: 47.36 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:146 Resp: 2227523

Ion Ratio Lower Upper

146 100

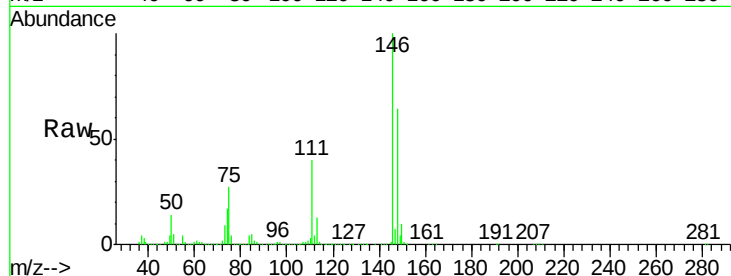
111 39.6 20.8 62.2

148 63.9 32.0 96.2

Manual Integrations
APPROVED

MMDadoda

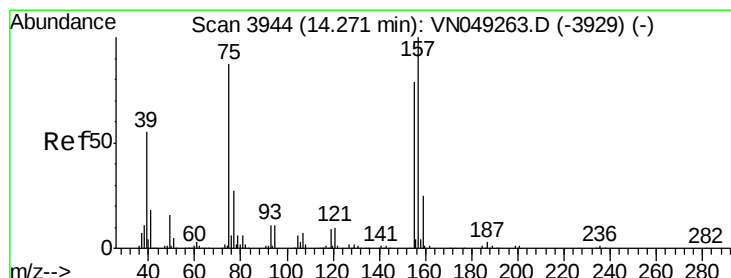
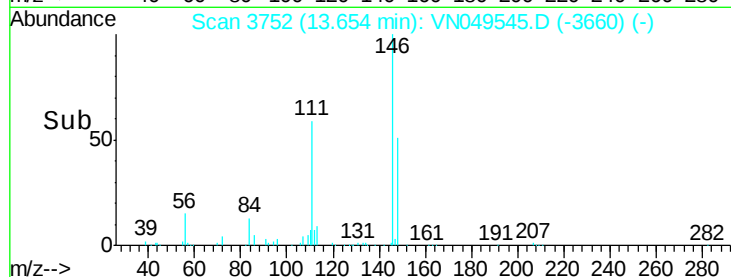
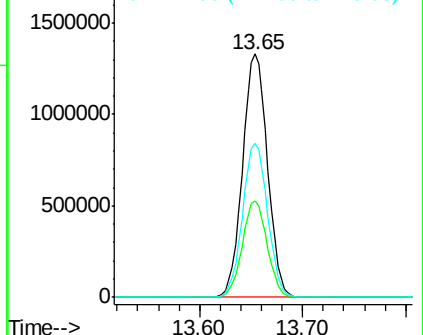
6/27/2018 5:29:43 PM



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 42.13 ug/l

RT: 14.27 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

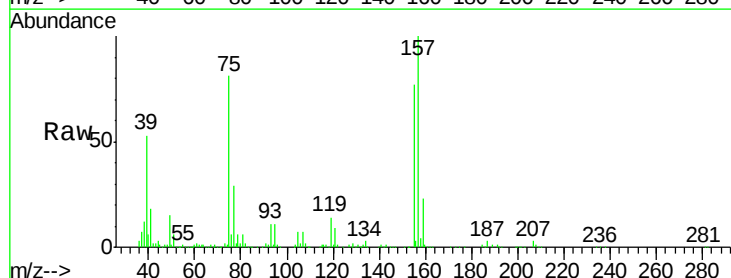
Tgt Ion: 75 Resp: 161869

Ion Ratio Lower Upper

75 100

155 93.3 38.8 116.3

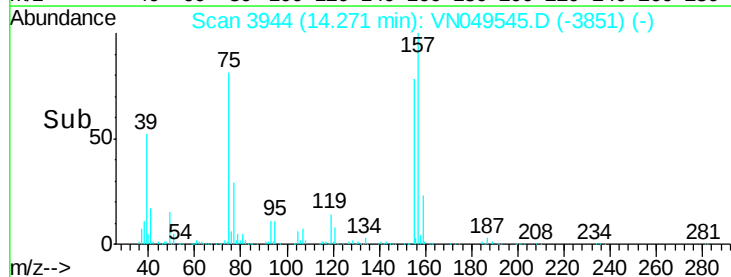
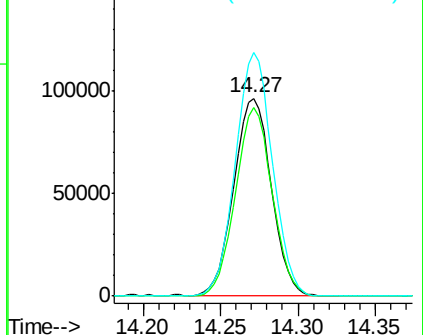
157 122.0 51.0 153.1

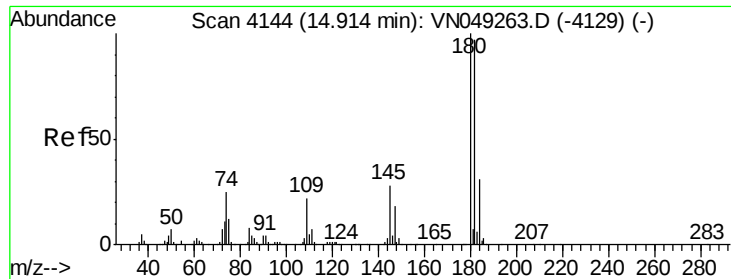


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 60.20 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:180 Resp: 1320735

Ion Ratio Lower Upper

180 100

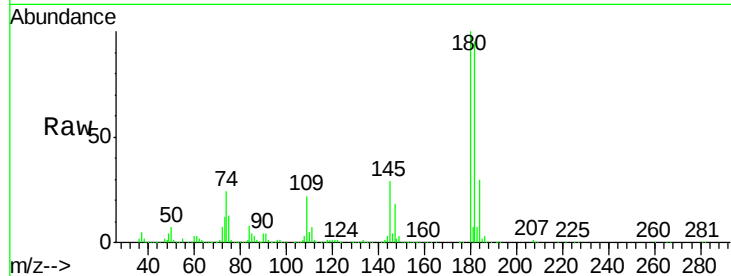
182 94.8 46.9 140.8

145 28.8 14.7 44.1

Manual Integrations
APPROVED

MMDadoda

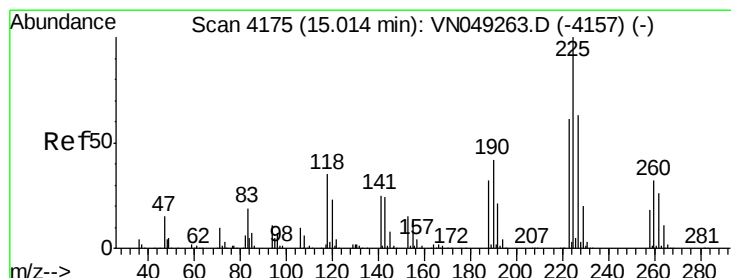
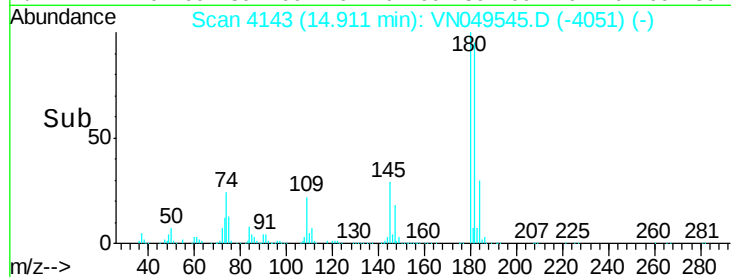
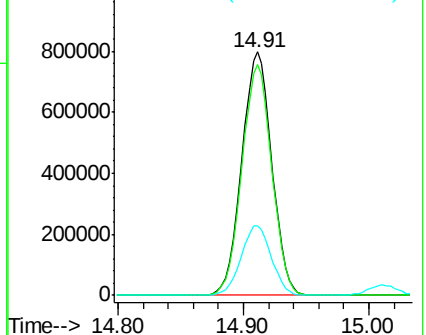
6/27/2018 5:29:43 PM



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 51.87 ug/l

RT: 15.01 min Scan# 4175

Delta R.T. 0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

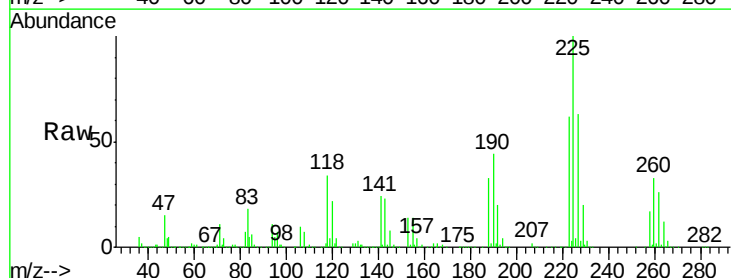
Tgt Ion:225 Resp: 712256

Ion Ratio Lower Upper

225 100

223 62.8 32.1 96.3

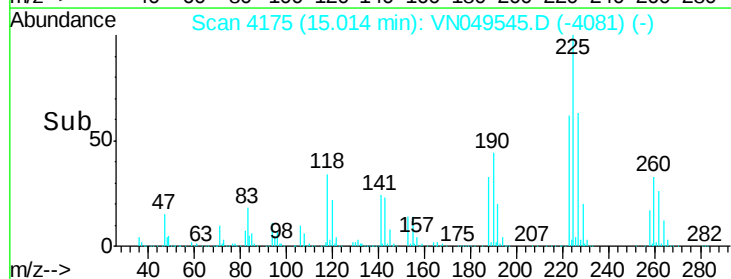
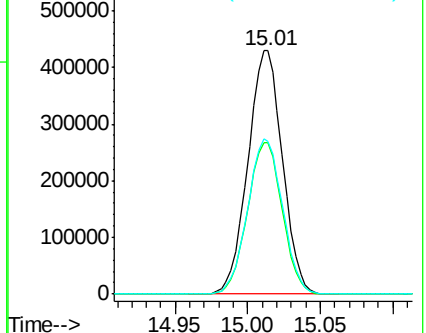
227 64.4 31.8 95.3



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 68.34 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:128 Resp: 2772953

Ion Ratio Lower Upper

128 100

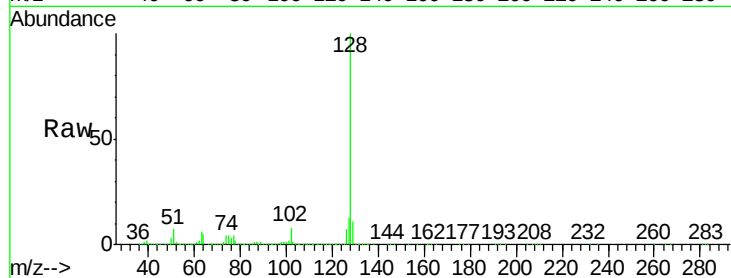
127 12.9 10.6 16.0

129 10.9 8.5 12.7

Manual Integrations
APPROVED

MMDadoda

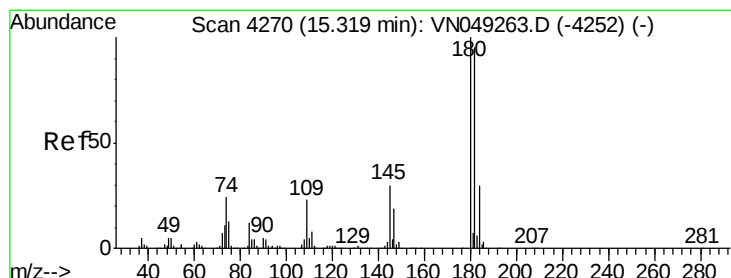
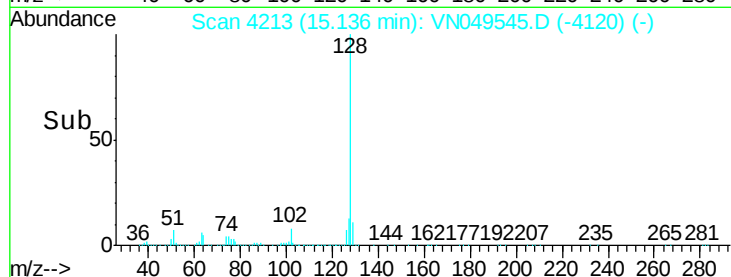
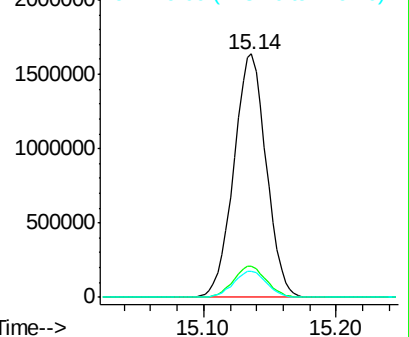
6/27/2018 5:29:43 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 56.52 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049545.D

Acq: 26 Jun 2018 11:31

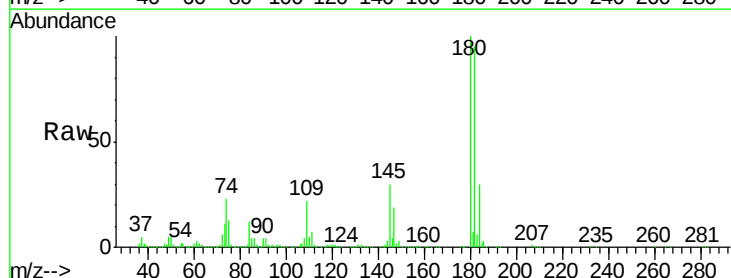
Tgt Ion:180 Resp: 1201323

Ion Ratio Lower Upper

180 100

182 95.7 47.3 141.8

145 30.4 15.6 46.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

