

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071218\
 Data File : VN049785.D
 Acq On : 12 Jul 2018 22:19
 Operator : MD\SY
 Sample : VN0712WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 1:35:39 PM

Quant Time: Jul 13 05:10:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1183508	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1747332	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1583074	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	795164	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	664213	48.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.50%	
35) Dibromofluoromethane	7.59	113	634538	48.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.36%	
50) Toluene-d8	10.09	98	2109191	46.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.56%	
62) 4-Bromofluorobenzene	12.40	95	741792	46.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.14%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.85	85	206269	19.32	ug/l	97
3) Chloromethane	2.06	50	276826	19.72	ug/l	99
4) Vinyl Chloride	2.18	62	308492	20.16	ug/l	100
5) Bromomethane	2.57	94	193790	20.10	ug/l	98
6) Chloroethane	2.70	64	204107	19.39	ug/l	100
7) Trichlorofluoromethane	3.02	101	430094	19.17	ug/l	100
8) Diethyl Ether	3.42	74	155945	19.39	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	275300	18.90	ug/l	100
10) Methyl Iodide	3.96	142	356830	19.27	ug/l	99
11) Tert butyl alcohol	4.80	59	90046	97.72	ug/l #	91
12) 1,1-Dichloroethene	3.74	96	241979	18.91	ug/l	98
13) Acrolein	3.61	56	69701	86.12	ug/l	97
14) Allyl chloride	4.33	41	381584	18.27	ug/l	97
15) Acrylonitrile	5.00	53	444875	96.41	ug/l	99
16) Acetone	3.82	43	313207	91.12	ug/l	99
17) Carbon Disulfide	4.05	76	641762	19.31	ug/l	100
18) Methyl Acetate	4.33	43	241206	20.54	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	689829	19.43	ug/l	99
20) Methylene Chloride	4.55	84	297436	20.52	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	264130	18.88	ug/l	99
22) Diisopropyl ether	5.96	45	862817	20.11	ug/l	99
23) Vinyl Acetate	5.90	43	2773525	96.47	ug/l	99
24) 1,1-Dichloroethane	5.86	63	523166	19.41	ug/l	99
25) 2-Butanone	6.84	43	489738	91.28	ug/l	99
26) 2,2-Dichloropropane	6.83	77	386759	17.29	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	311202	19.45	ug/l	98
28) Bromochloromethane	7.20	49	239922	19.57	ug/l	98
29) Tetrahydrofuran	7.22	42	318825	94.63	ug/l	99
30) Chloroform	7.37	83	538892	19.40	ug/l	100
31) Cyclohexane	7.66	56	416157	19.24	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	460154	19.51	ug/l	99
36) 1,1-Dichloropropene	7.80	75	376885	18.72	ug/l	100
37) Ethyl Acetate	6.93	43	232629	19.52	ug/l	99
38) Carbon Tetrachloride	7.78	117	402286	19.11	ug/l	99

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Manual Integrations
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MMDadoda
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Quant Time: Jul 13 05:10:08 2018
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 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	382622	18.03	ug/l	97
40) Benzene	8.05	78	1174472	19.50	ug/l	100
41) Methacrylonitrile	7.18	41	127962	18.98	ug/l	99
42) 1,2-Dichloroethane	8.13	62	380226	19.30	ug/l	99
43) Isopropyl Acetate	8.17	43	415020	19.37	ug/l	97
44) Trichloroethene	8.84	130	304078	18.75	ug/l	99
45) 1,2-Dichloropropane	9.12	63	312574	19.31	ug/l	97
46) Dibromomethane	9.21	93	183516	19.09	ug/l	100
47) Bromodichloromethane	9.41	83	411543	19.44	ug/l	99
48) Methyl methacrylate	9.20	41	206898	19.32	ug/l	97
49) 1,4-Dioxane	9.20	88	52721	375.65	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	1146780	98.59	ug/l	99
52) Toluene	10.16	92	722274	20.04	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	376464	18.49	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	447468	19.29	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	269587	19.35	ug/l	98
56) Ethyl methacrylate	10.43	69	312111	19.18	ug/l	99
57) 1,3-Dichloropropane	10.71	76	447479	19.48	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	751376	96.28	ug/l	100
59) 2-Hexanone	10.75	43	716687	92.68	ug/l	99
60) Dibromochloromethane	10.90	129	300021	19.00	ug/l	98
61) 1,2-Dibromoethane	11.01	107	256194	19.53	ug/l	98
64) Tetrachloroethene	10.63	164	277680	19.32	ug/l	97
65) Chlorobenzene	11.44	112	777500	18.85	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	306268	19.74	ug/l	98
67) Ethyl Benzene	11.51	91	1307290	19.36	ug/l	99
68) m/p-Xylenes	11.62	106	1004221	39.62	ug/l	99
69) o-Xylene	11.95	106	490114	20.01	ug/l	97
70) Styrene	11.97	104	779008	20.03	ug/l	100
71) Bromoform	12.13	173	204660	19.52	ug/l	98
73) Isopropylbenzene	12.25	105	1299754	19.67	ug/l	99
74) N-amyl acetate	12.07	43	328448	19.11	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	329085	20.45	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	275560m	19.51	ug/l	
77) Bromobenzene	12.53	156	333661	19.03	ug/l	99
78) n-propylbenzene	12.59	91	1465896	19.67	ug/l	99
79) 2-Chlorotoluene	12.68	91	890900	19.54	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1055460	20.10	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	75120	17.17	ug/l	95
82) 4-Chlorotoluene	12.78	91	885730	19.58	ug/l	100
83) tert-Butylbenzene	12.99	119	927020	19.73	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1073331	20.38	ug/l	100
85) sec-Butylbenzene	13.17	105	1230546	19.98	ug/l	100
86) p-Isopropyltoluene	13.29	119	1044761	20.05	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	583864	19.21	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	560838	18.98	ug/l	99
89) n-Butylbenzene	13.62	91	809559	18.82	ug/l	99
90) Hexachloroethane	13.88	117	201405	19.46	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	579517	19.54	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	47790	20.17	ug/l	98

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ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

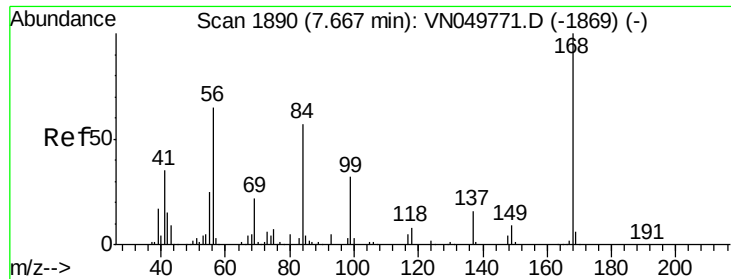
Manual Integrations
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7/13/2018 1:35:39 PM

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Quant Title : SW846 8260
QLast Update : Thu Jul 12 15:51:38 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	268355	18.41	ug/l	99
94) Hexachlorobutadiene	15.01	225	180318	19.20	ug/l	97
95) Naphthalene	15.14	128	530055	17.89	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	276266	19.20	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampled :

VN0712WBSD01

Tot Ion:168 Resp: 1183508

Ion Ratio Lower Upper

168 100

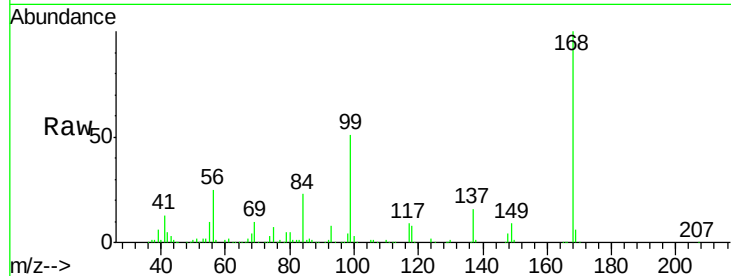
99 50.8 40.6 61.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

300000

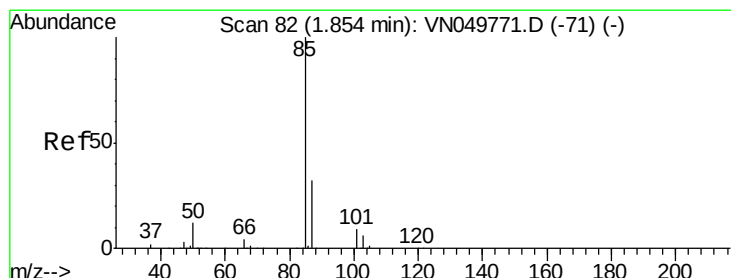
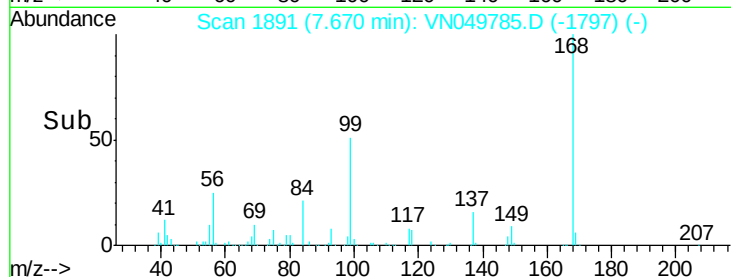
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 19.32 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049785.D

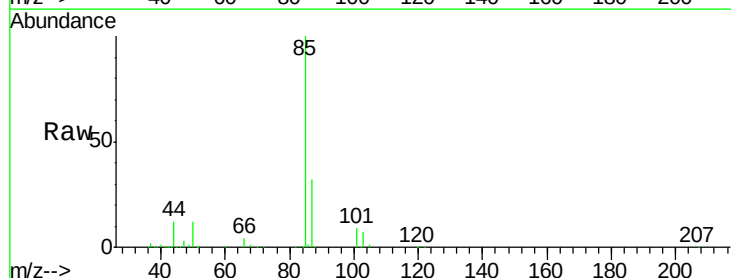
Acq: 12 Jul 2018 22:19

Tgt Ion: 85 Resp: 206269

Ion Ratio Lower Upper

85 100

87 32.2 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

150000

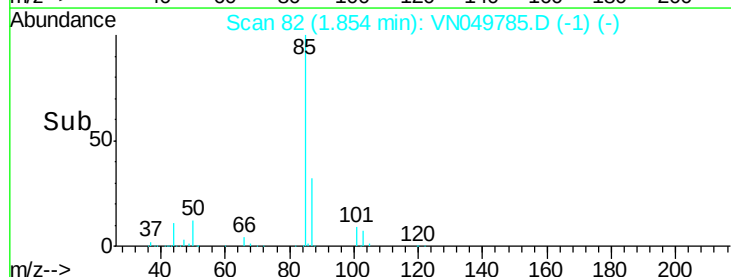
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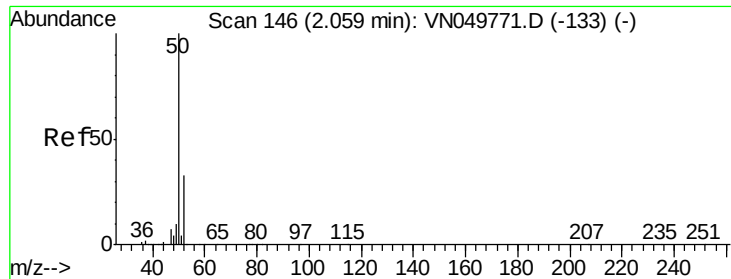
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.72 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampleId :

VN0712WBSD01

Tot Ion: 50 Resp: 276826

Ion Ratio Lower Upper

50 100

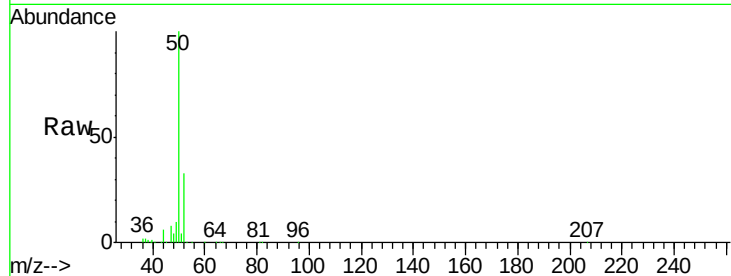
52 33.1 26.1 39.1

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

200000

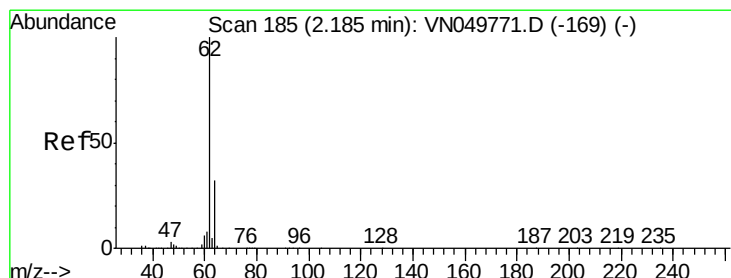
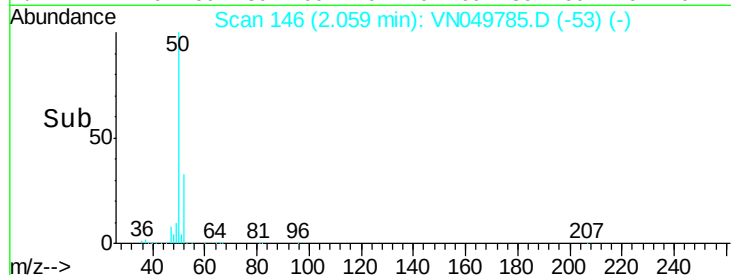
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 20.16 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN049785.D

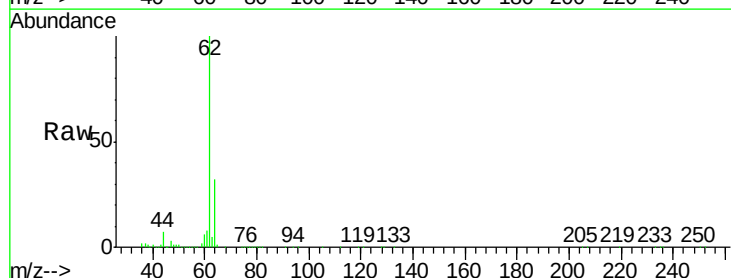
Acq: 12 Jul 2018 22:19

Tgt Ion: 62 Resp: 308492

Ion Ratio Lower Upper

62 100

64 31.7 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.18

200000

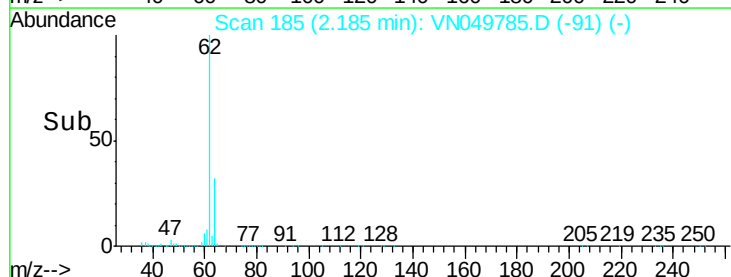
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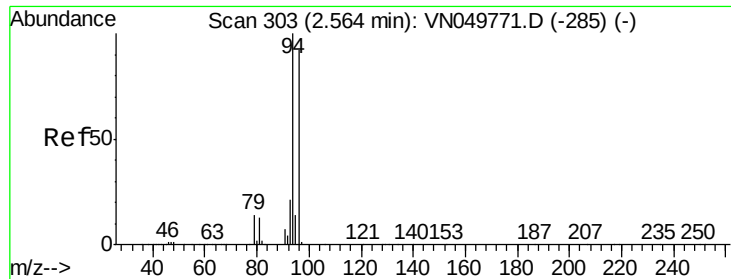
100000

50000

0

Time-->





#5

Bromomethane

Concen: 20.10 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampleId :

VN0712WBSD01

Tot Ion: 94 Resp: 193790

Ion Ratio Lower Upper

94 100

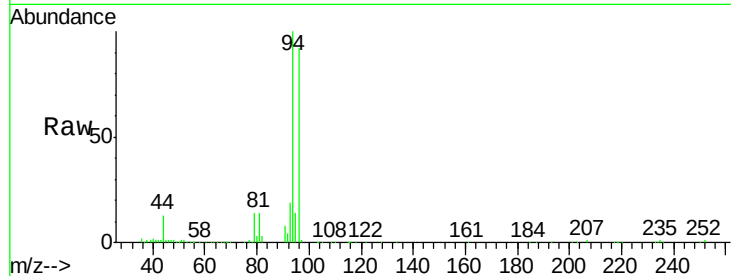
96 92.3 75.7 113.5

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.57

120000

100000

80000

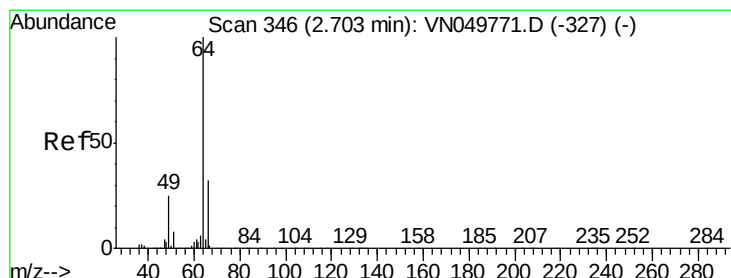
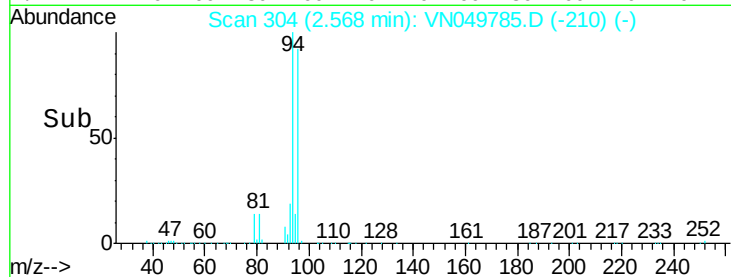
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 19.39 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN049785.D

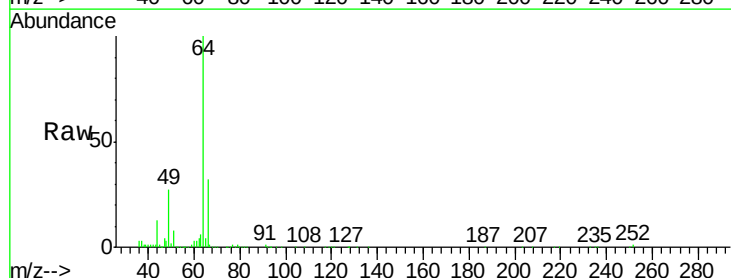
Acq: 12 Jul 2018 22:19

Tgt Ion: 64 Resp: 204107

Ion Ratio Lower Upper

64 100

66 31.8 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.70

120000

100000

80000

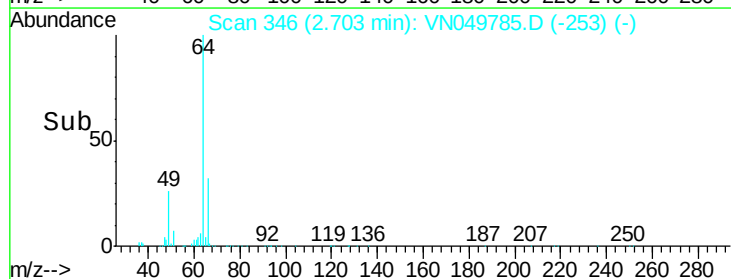
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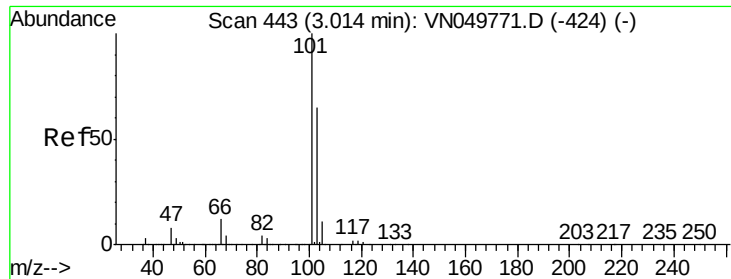
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20000

0

Time-->





#7

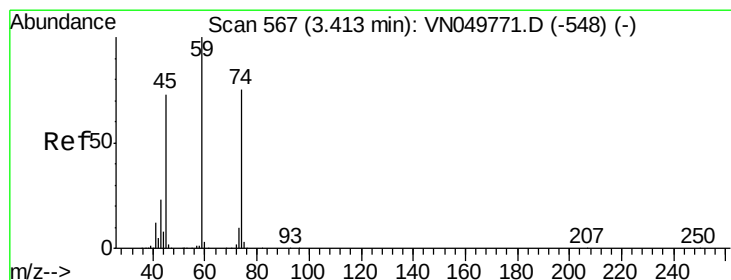
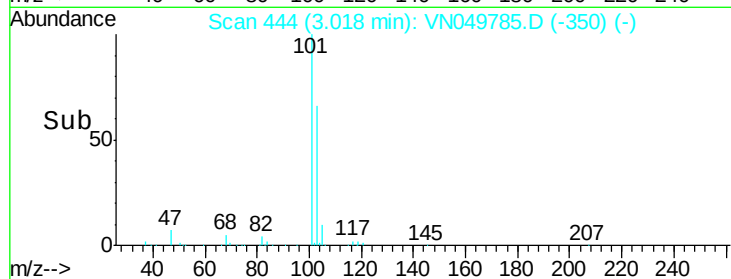
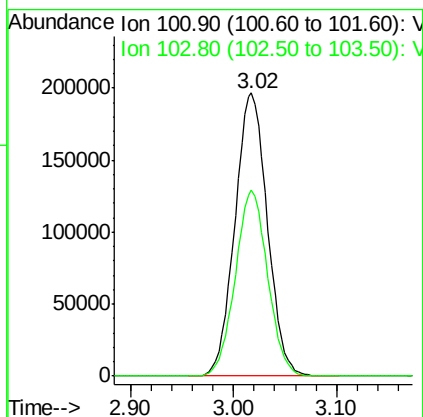
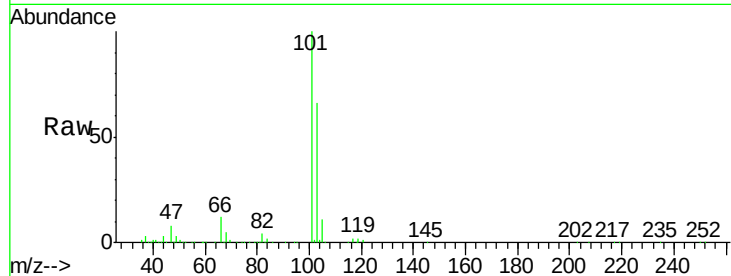
Trichlorofluoromethane
Concen: 19.17 ug/l
RT: 3.02 min Scan# 444
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.7	52.8	79.2

Manual Integrations
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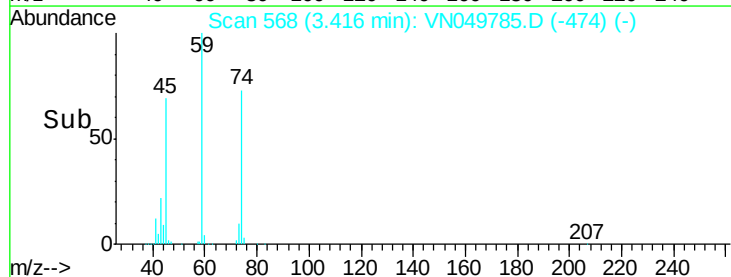
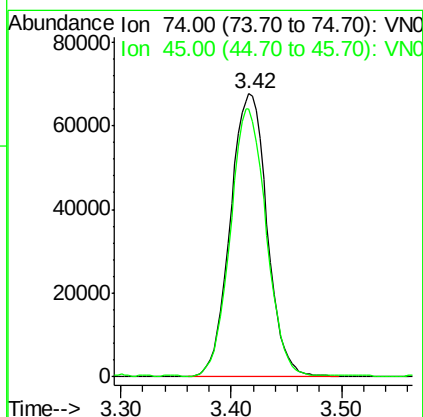
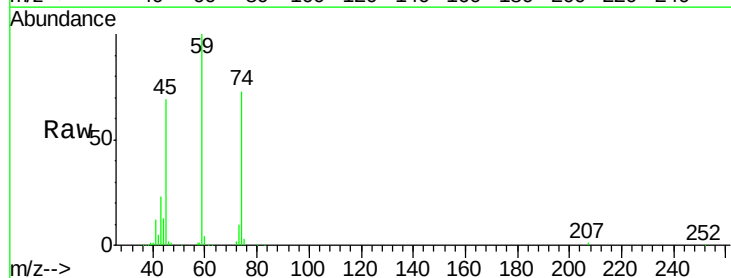
MMDadoda
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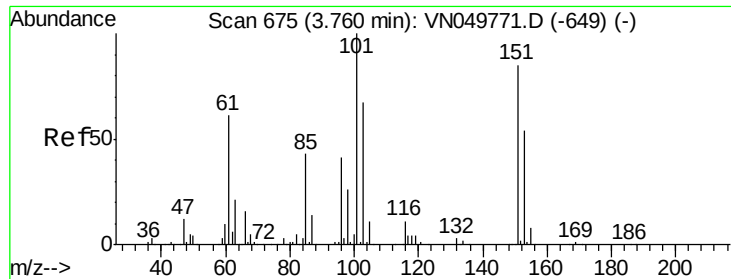


#8

Diethyl Ether
Concen: 19.39 ug/l
RT: 3.42 min Scan# 568
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
74	100		
45	92.4	48.4	145.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.90 ug/l

RT: 3.76 min Scan# 675

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

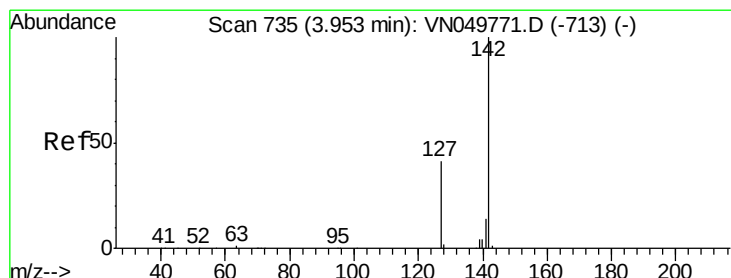
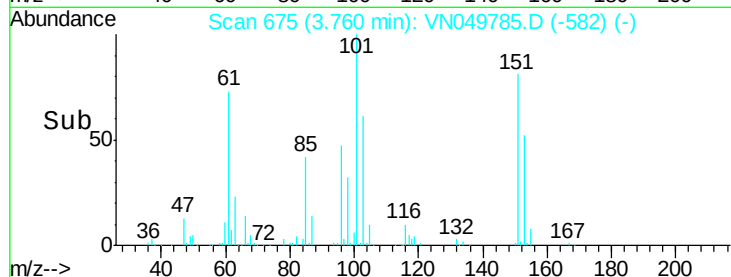
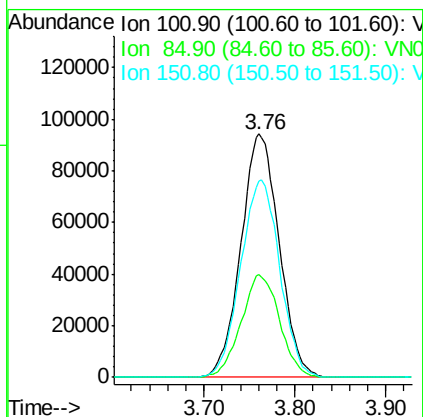
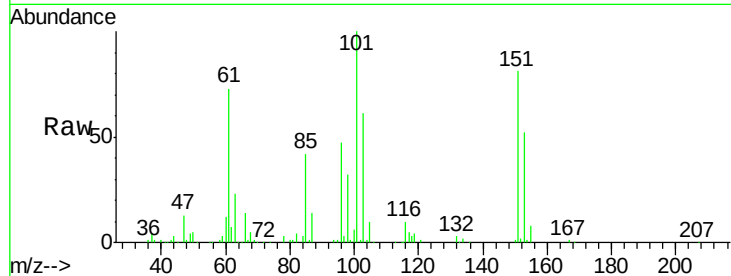
ClientSampleId :

VN0712WBSD01

Tot Ion:	101	Resp:	275300
Ion Ratio	Lower	Upper	
101	100		
85	42.3	34.4	51.6
151	82.9	66.2	99.4

Manual Integrations
APPROVED

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7/13/2018 1:35:39 PM



#10

Methyl Iodide

Concen: 19.27 ug/l

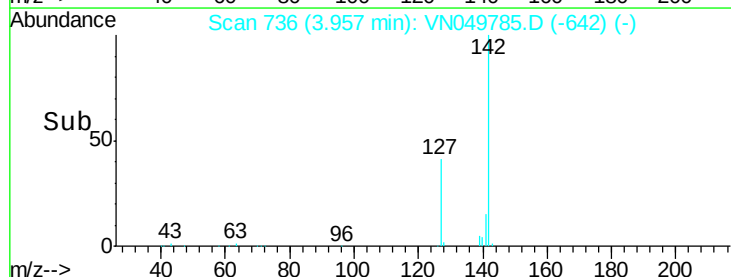
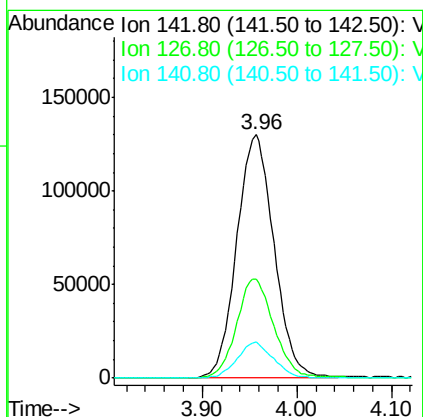
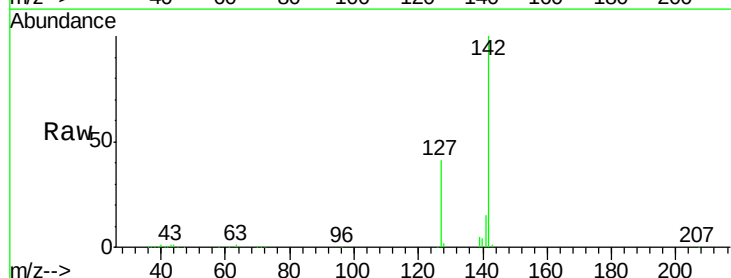
RT: 3.96 min Scan# 736

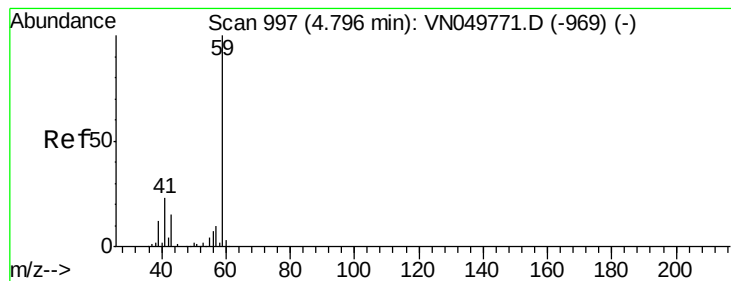
Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Tgt Ion:	142	Resp:	356830
Ion Ratio	Lower	Upper	
142	100		
127	40.9	32.5	48.7
141	14.4	11.1	16.7





#11

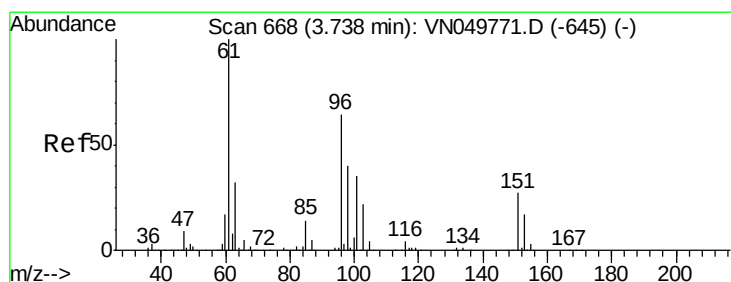
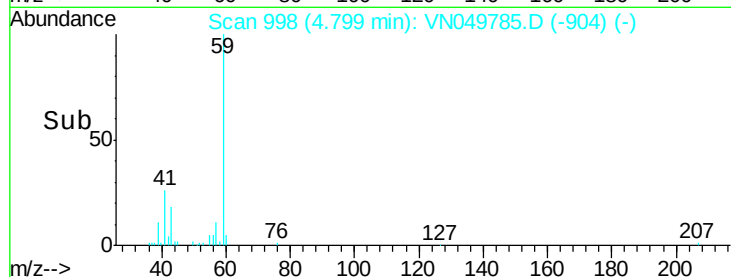
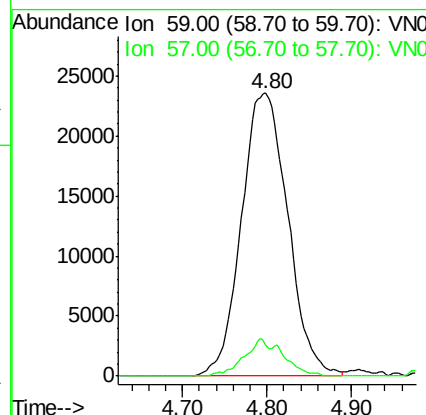
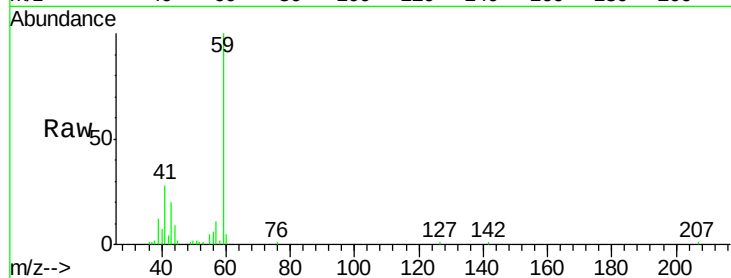
Tert butyl alcohol
Concen: 97.72 ug/l
RT: 4.80 min Scan# 998
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion: 59 Resp: 90046
Ion Ratio Lower Upper
59 100
57 7.2 8.5 12.7#

Manual Integrations
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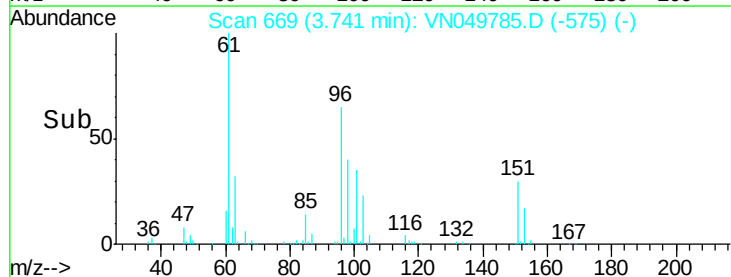
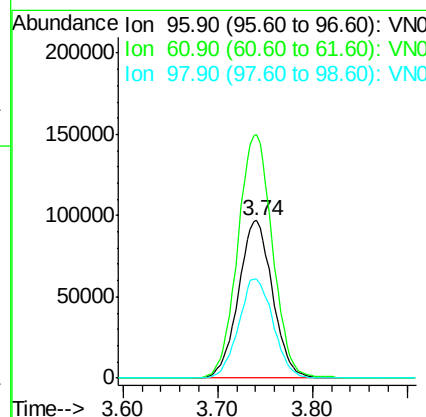
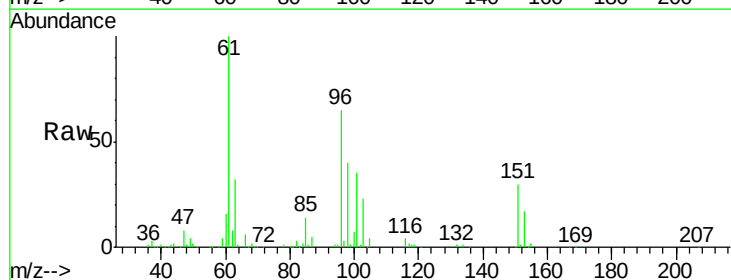
MMDadoda
7/13/2018 1:35:39 PM

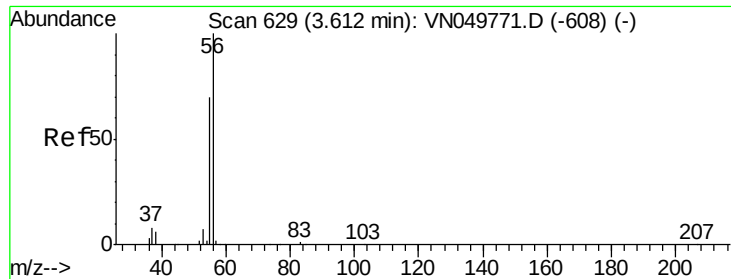


#12

1,1-Dichloroethene
Concen: 18.91 ug/l
RT: 3.74 min Scan# 669
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion: 96 Resp: 241979
Ion Ratio Lower Upper
96 100
61 154.5 126.5 189.7
98 62.6 51.0 76.6





#13

Acrolein

Concen: 86.12 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampleId :

VN0712WBSD01

Tot Ion: 56 Resp: 69701

Ion Ratio Lower Upper

56 100

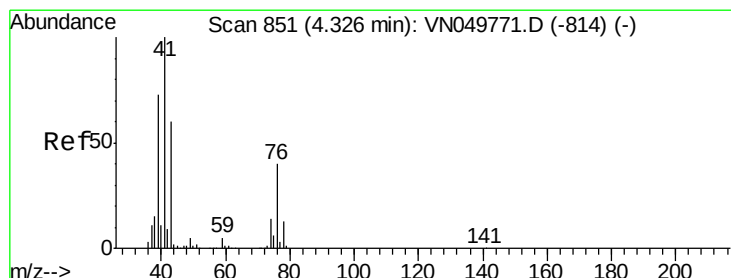
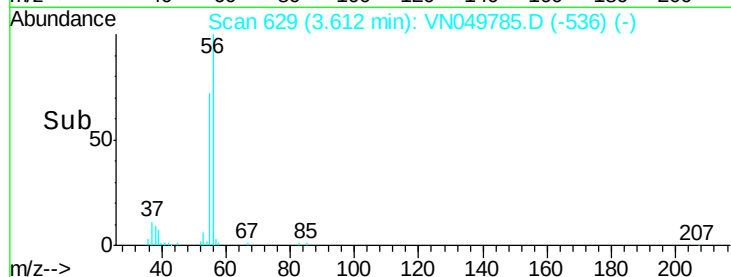
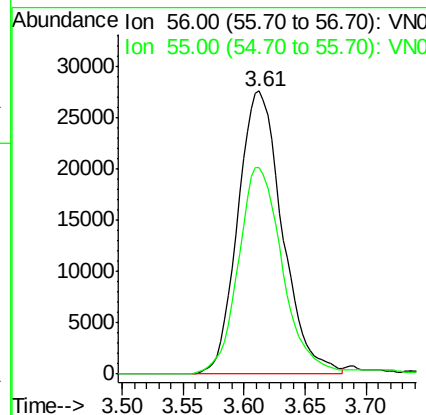
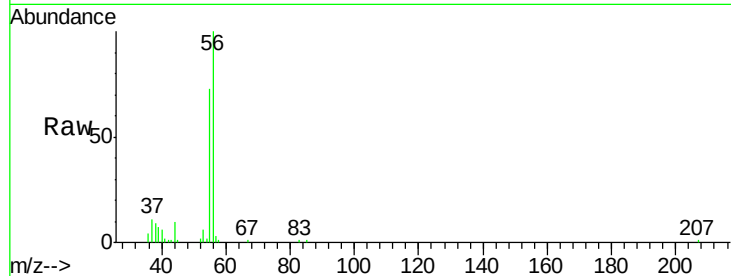
55 72.3 55.8 83.8

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 18.27 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

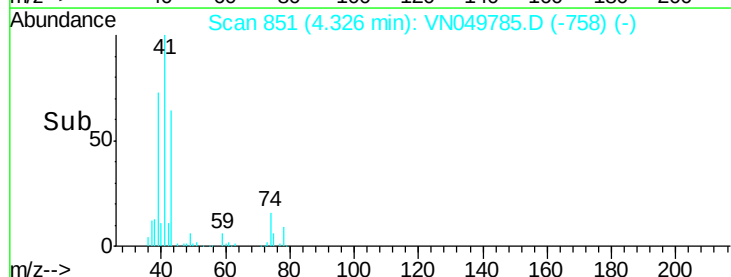
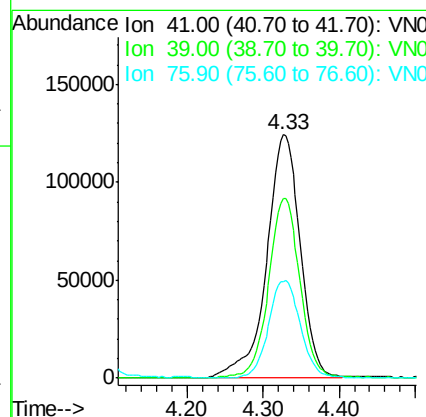
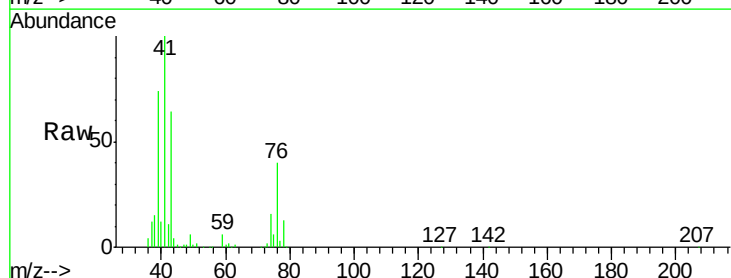
Tgt Ion: 41 Resp: 381584

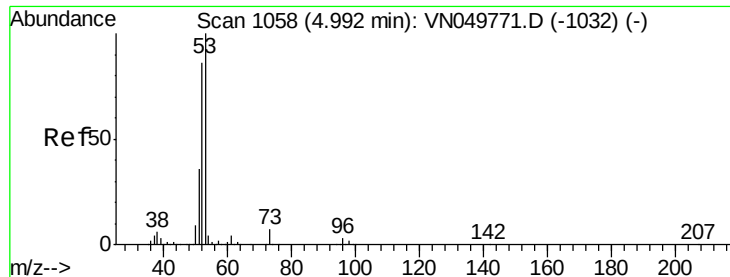
Ion Ratio Lower Upper

41 100

39 69.0 53.2 79.8

76 37.2 29.0 43.6





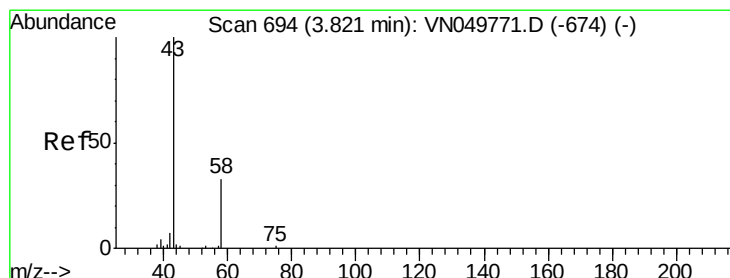
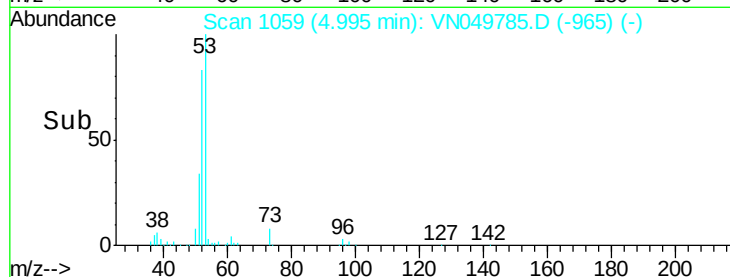
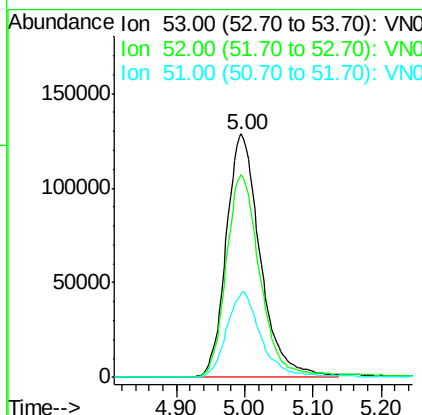
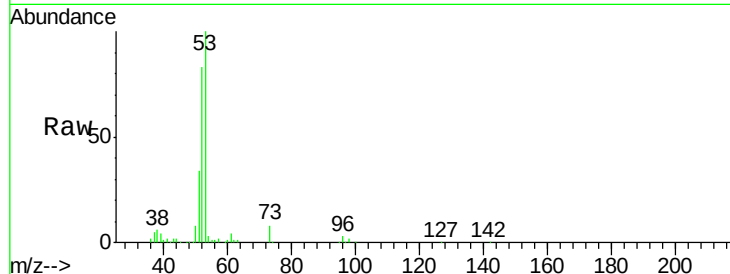
#15
 Acrylonitrile
 Concen: 96.41 ug/l
 RT: 5.00 min Scan# 1059
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.9	64.8	97.2
51	35.4	28.9	43.3

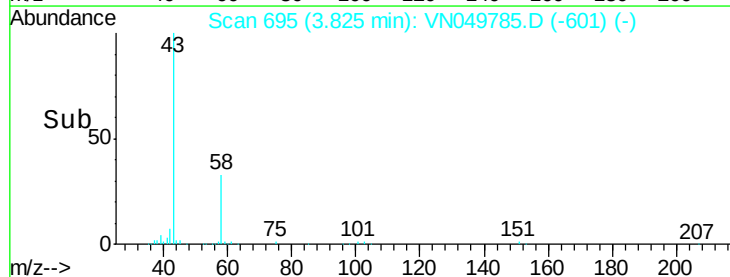
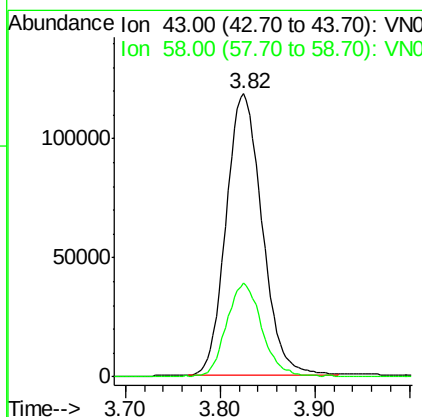
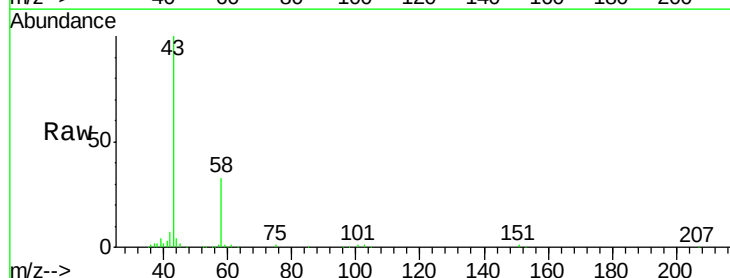
Manual Integrations
 APPROVED

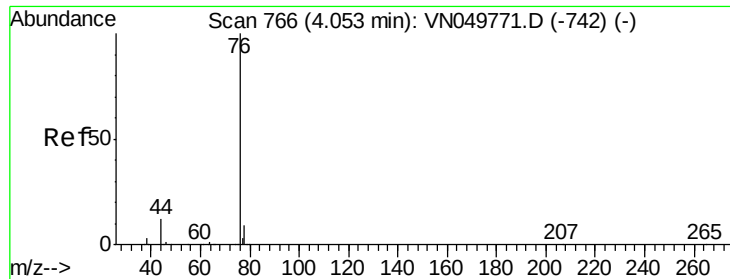
MMDadoda
 7/13/2018 1:35:39 PM



#16
 Acetone
 Concen: 91.12 ug/l
 RT: 3.82 min Scan# 695
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.9	25.9	38.9





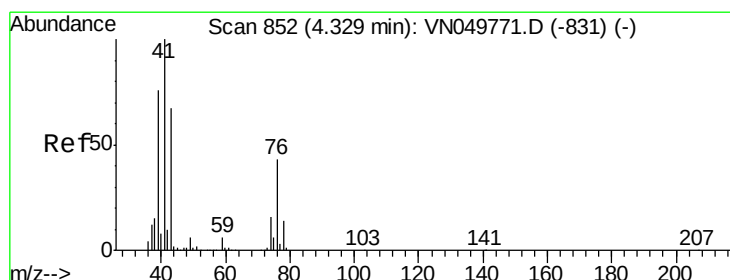
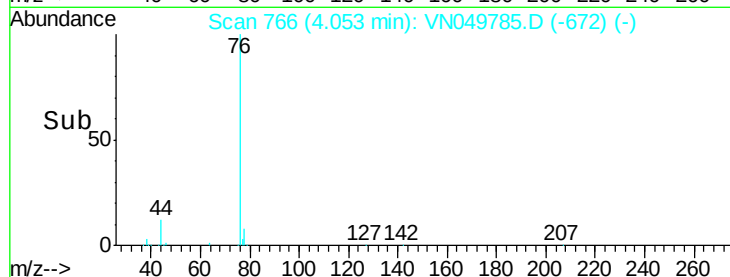
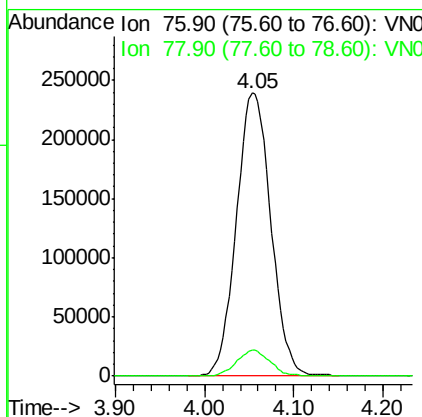
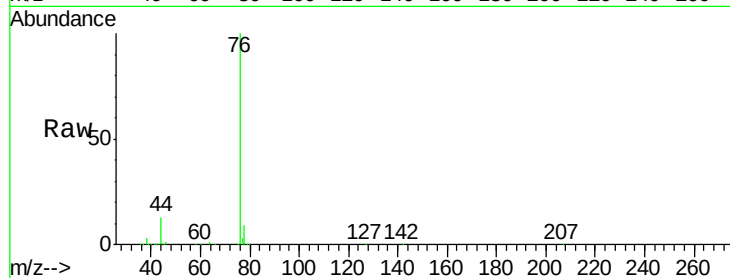
#17
Carbon Disulfide
Concen: 19.31 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.1	10.7

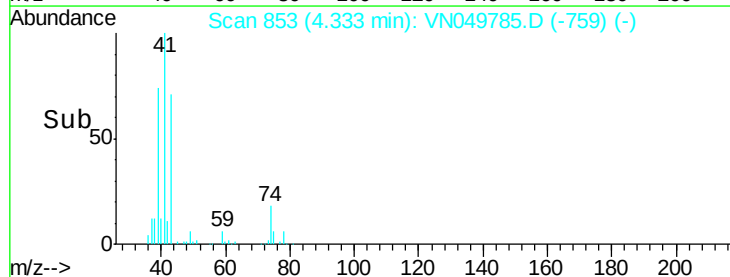
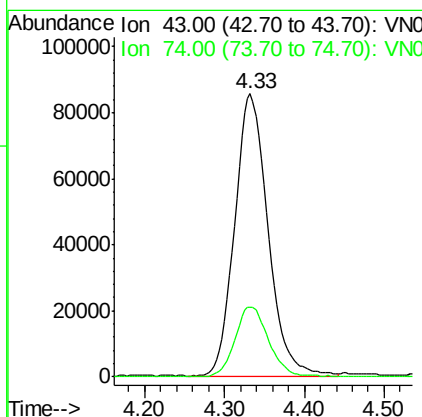
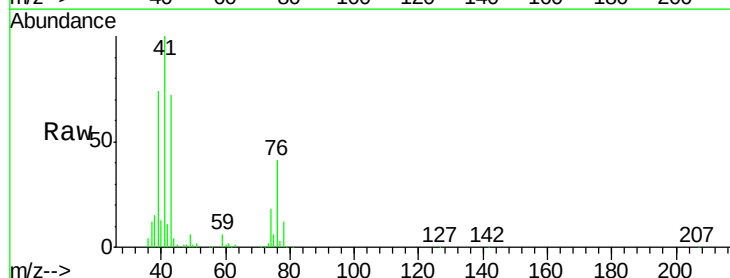
Manual Integrations
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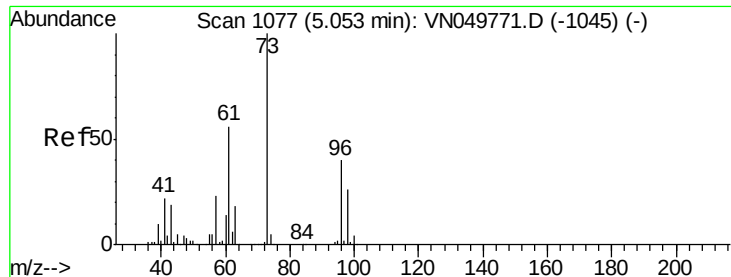
MMDadoda
7/13/2018 1:35:39 PM



#18
Methyl Acetate
Concen: 20.54 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.9	19.8	29.8





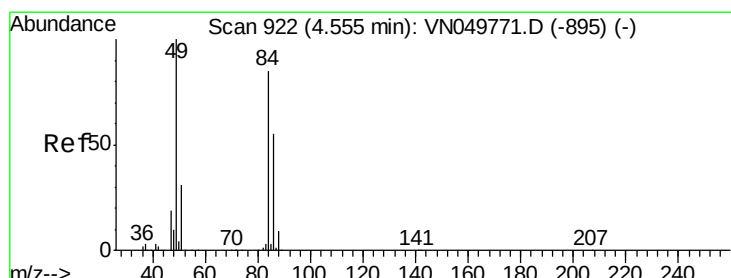
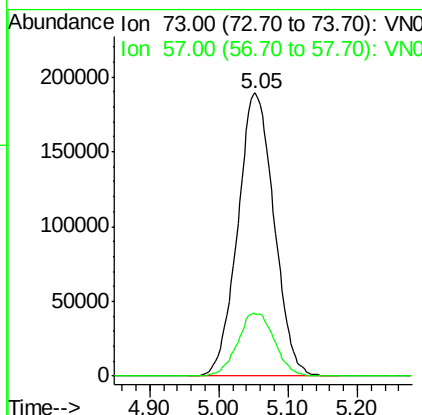
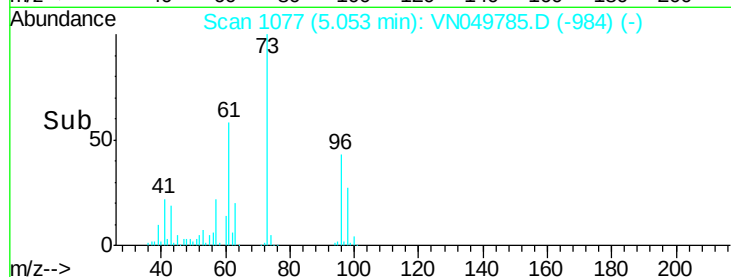
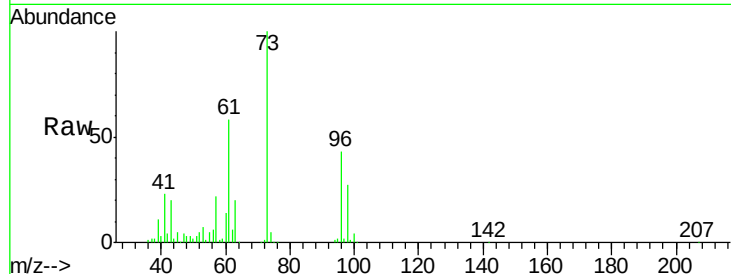
#19
Methvl tert-butvl Ether
Concen: 19.43 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion: 73 Resp: 689829
Ion Ratio Lower Upper
73 100
57 22.1 18.1 27.1

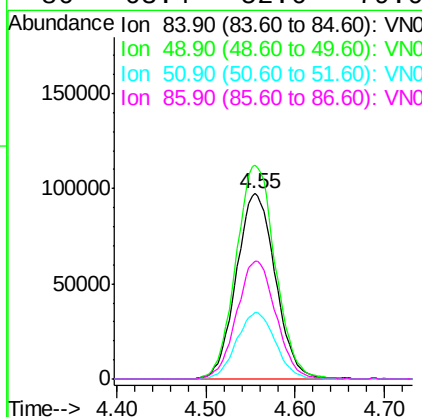
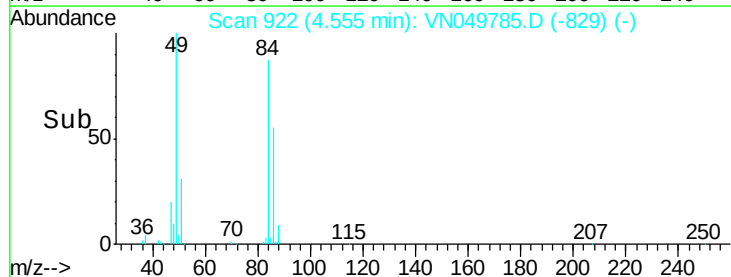
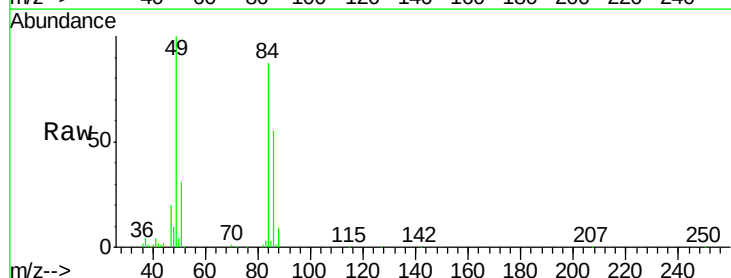
Manual Integrations
APPROVED

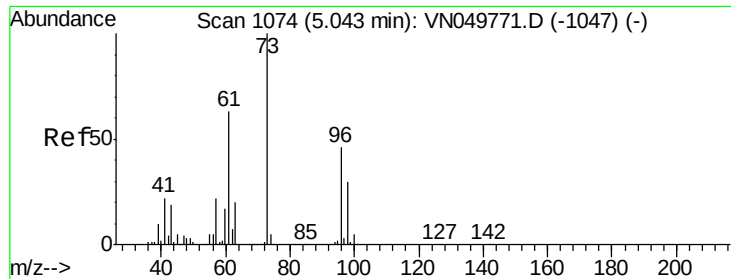
MMDadoda
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#20
Methylene Chloride
Concen: 20.52 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion: 84 Resp: 297436
Ion Ratio Lower Upper
84 100
49 115.4 95.4 143.2
51 35.7 28.4 42.6
86 63.4 52.6 79.0





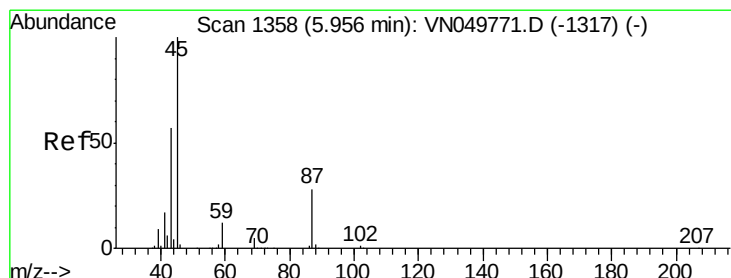
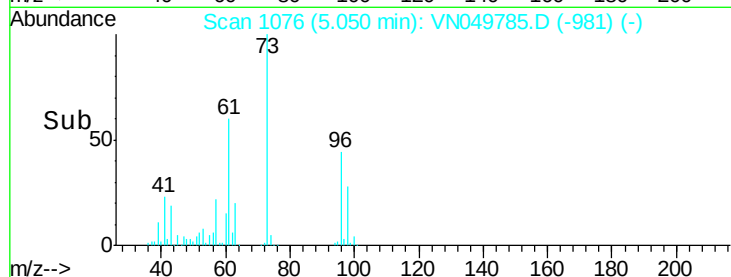
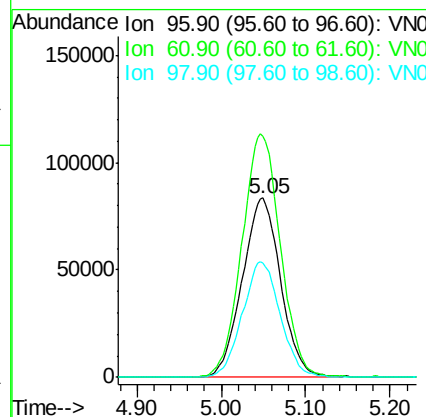
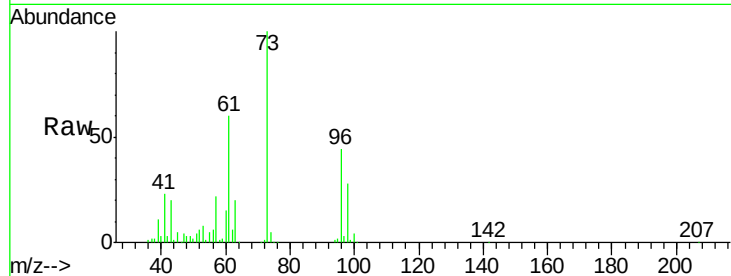
#21
trans-1,2-Dichloroethene
Concen: 18.88 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. 0.01 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.8	109.0	163.6
98	63.5	51.1	76.7

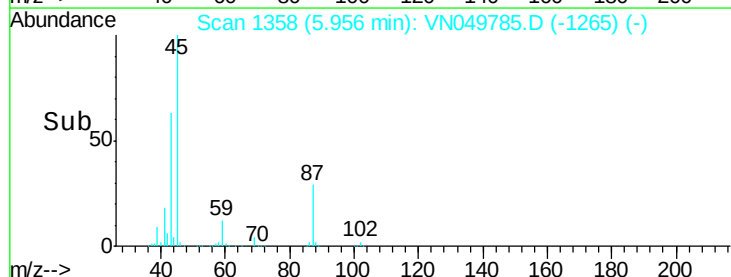
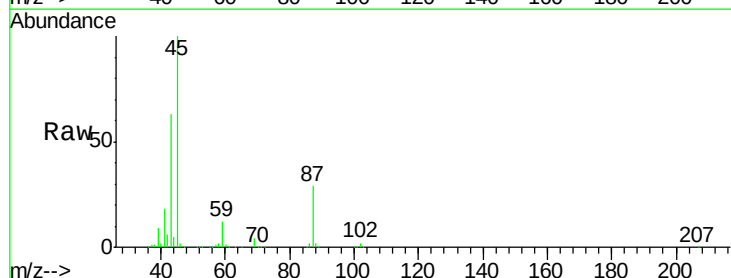
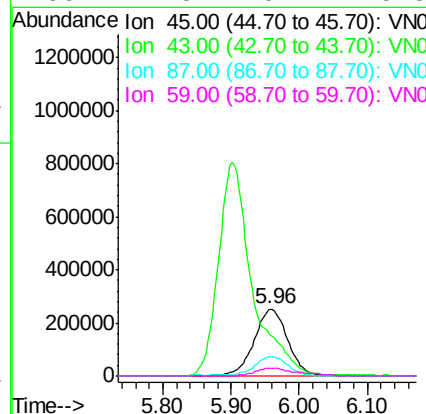
Manual Integrations
APPROVED

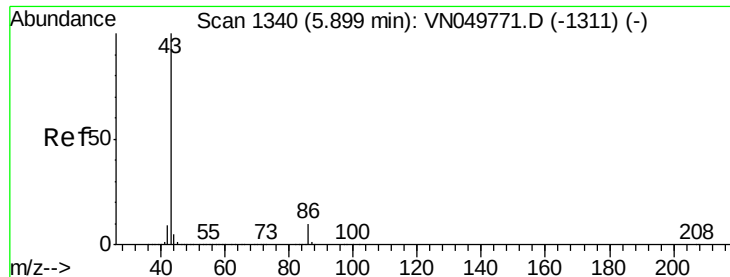
MMDadoda
7/13/2018 1:35:39 PM



#22
Diisopropyl ether
Concen: 20.11 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.1	48.1	72.1
87	28.5	22.6	34.0
59	11.8	9.2	13.8





#23

Vinyl Acetate

Concen: 96.47 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampleId :

VN0712WBSD01

Tot Ion: 43 Resp: 2773525

Ion Ratio Lower Upper

43 100

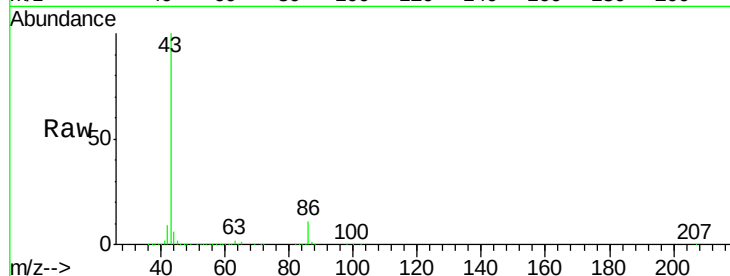
86 11.0 8.4 12.6

Manual Integrations

APPROVED

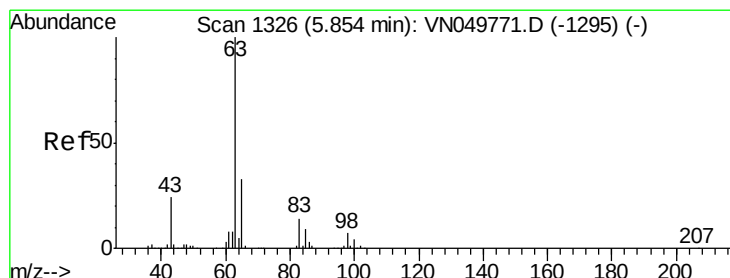
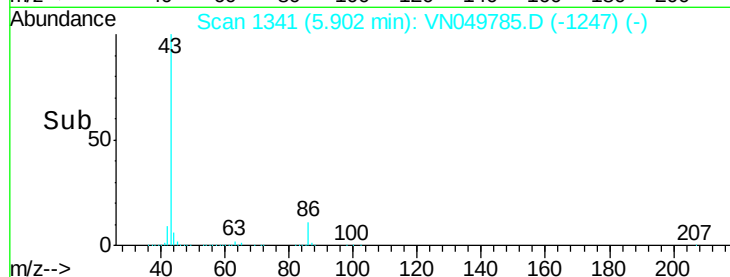
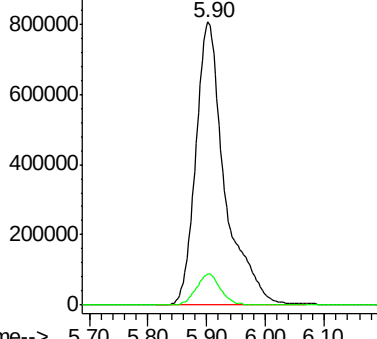
MMDadoda

7/13/2018 1:35:39 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 19.41 ug/l

RT: 5.86 min Scan# 1327

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

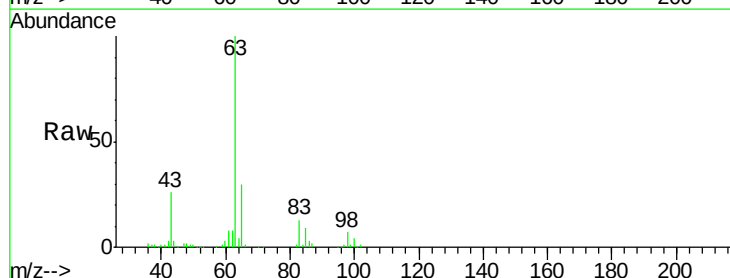
Tgt Ion: 63 Resp: 523166

Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.2

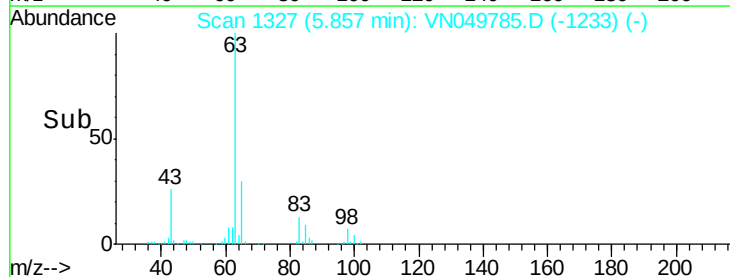
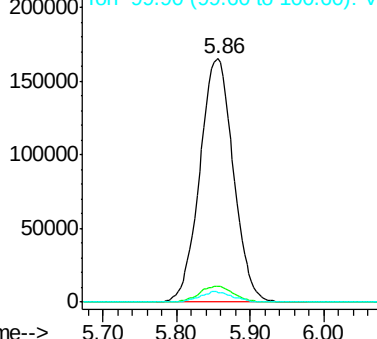
100 4.0 2.2 6.6

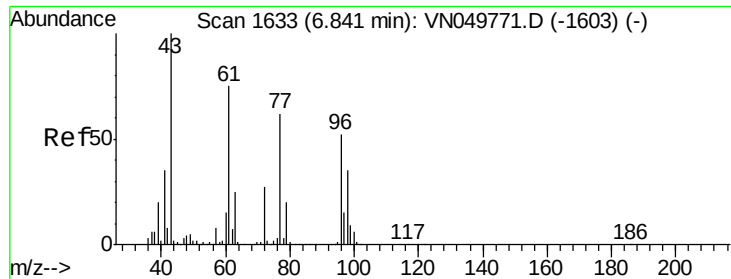


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 91.28 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampleId :

VN0712WBSD01

Tot Ion: 43 Resp: 489738

Ion Ratio Lower Upper

43 100

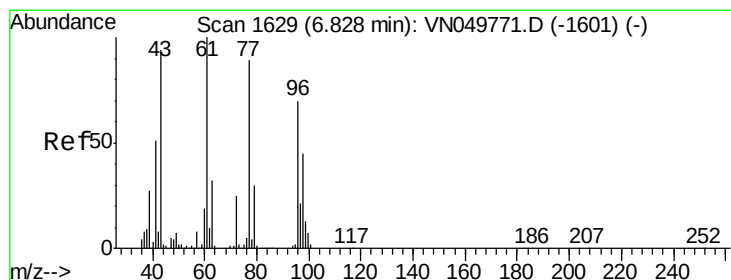
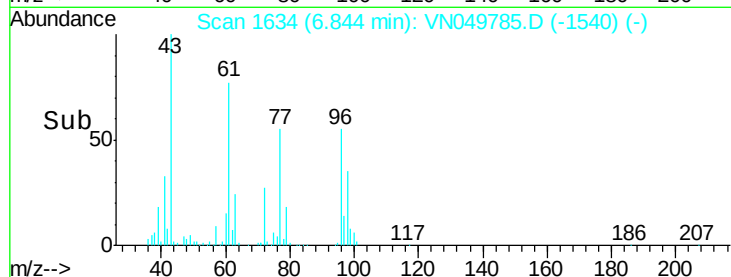
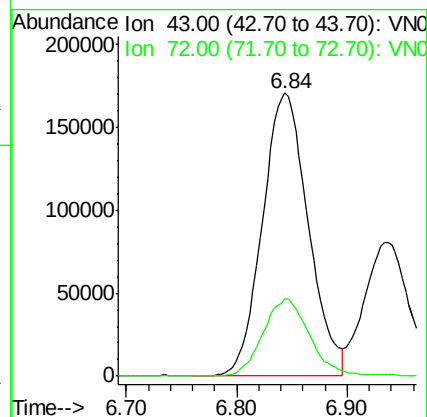
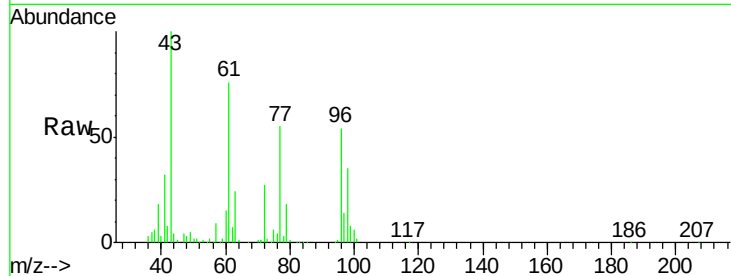
72 27.3 22.1 33.1

Manual Integrations

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MMDadoda

7/13/2018 1:35:39 PM



#26

2,2-Dichloropropane

Concen: 17.29 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN049785.D

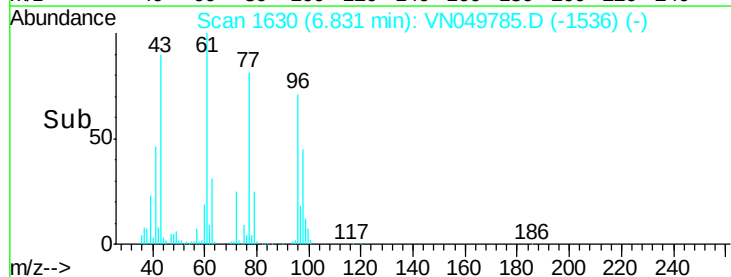
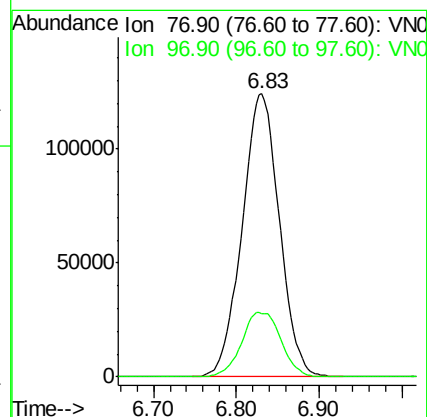
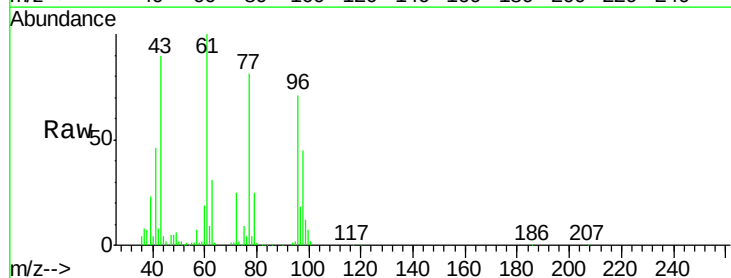
Acq: 12 Jul 2018 22:19

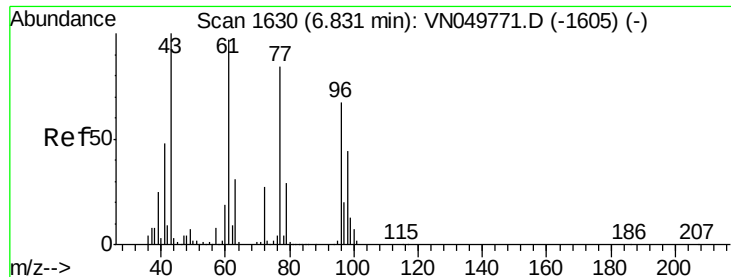
Tgt Ion: 77 Resp: 386759

Ion Ratio Lower Upper

77 100

97 24.2 11.9 35.5





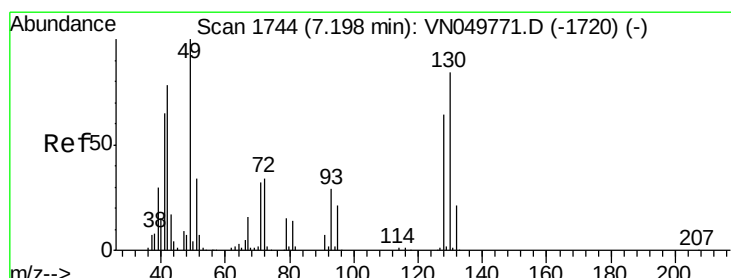
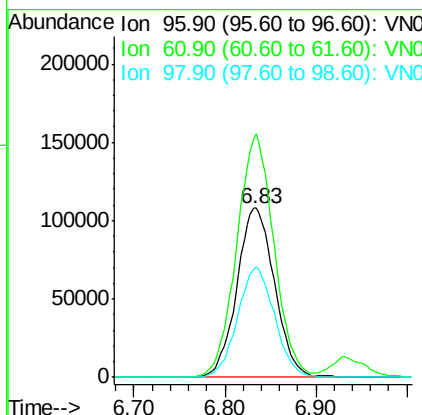
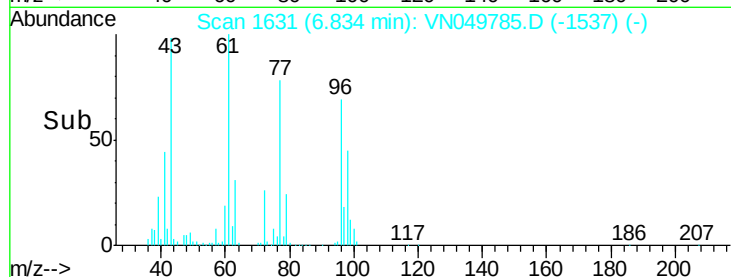
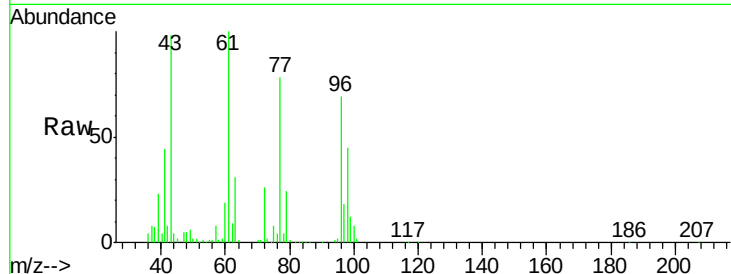
#27
 cis-1,2-Dichloroethene
 Concen: 19.45 ug/l
 RT: 6.83 min Scan# 1631
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	311202		
61	141.5	0.0	289.0	
98	63.9	0.0	130.2	

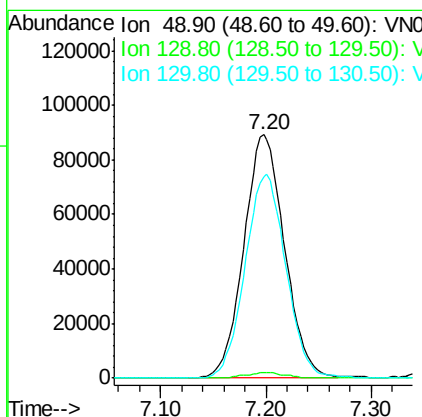
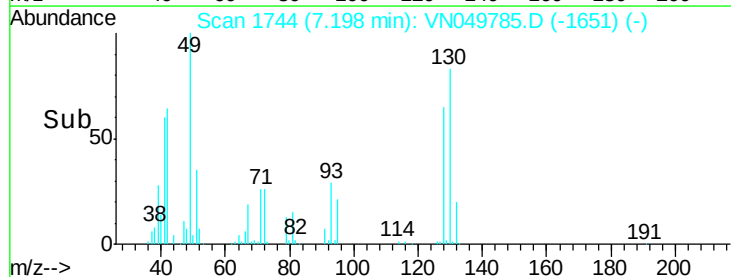
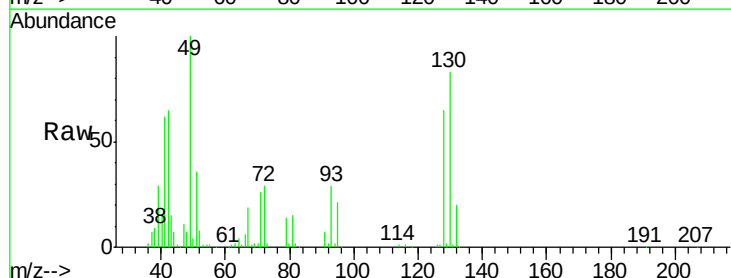
Manual Integrations
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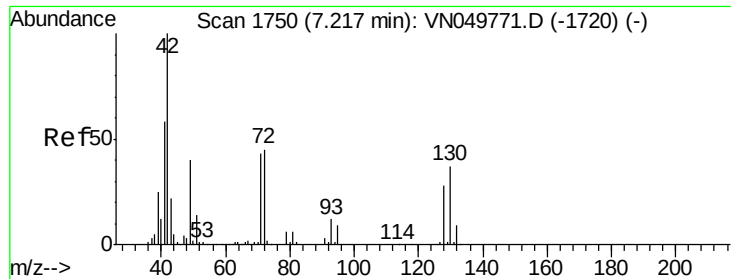
MMDadoda
 7/13/2018 1:35:39 PM



#28
 Bromochloromethane
 Concen: 19.57 ug/l
 RT: 7.20 min Scan# 1744
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	239922		
129	2.2	0.0	4.2	
130	84.0	65.5	98.3	





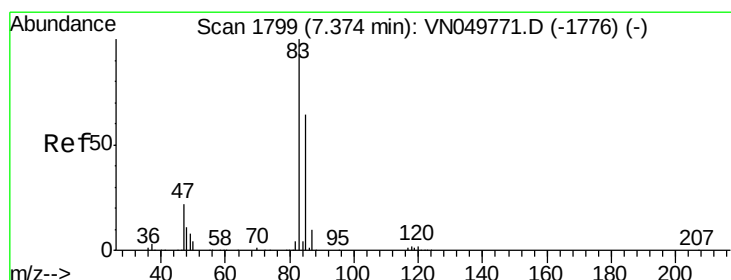
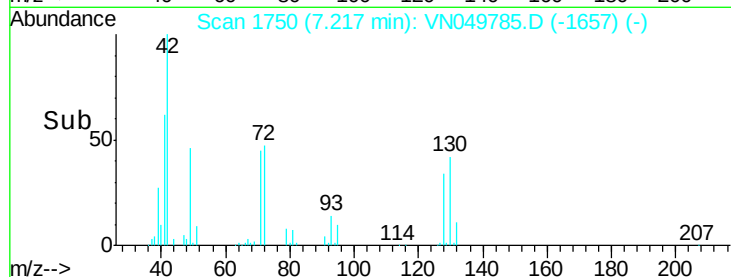
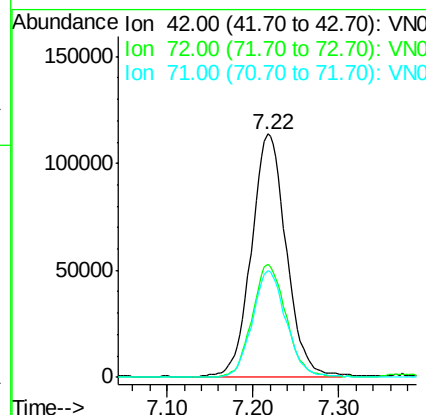
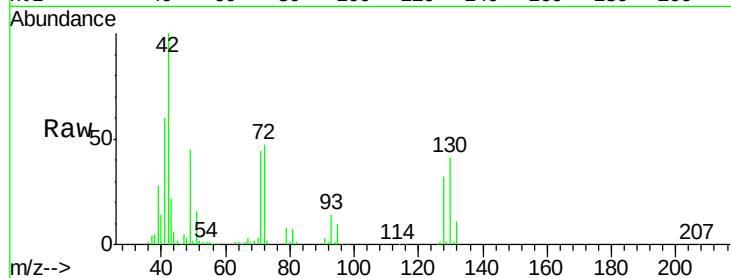
#29
Tetrahydrofuran
Concen: 94.63 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.6	35.6	53.4
71	42.9	34.0	51.0

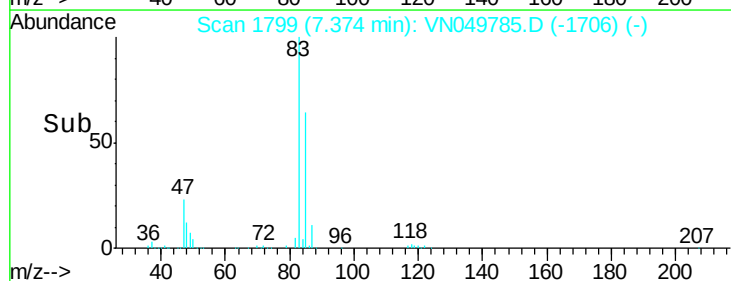
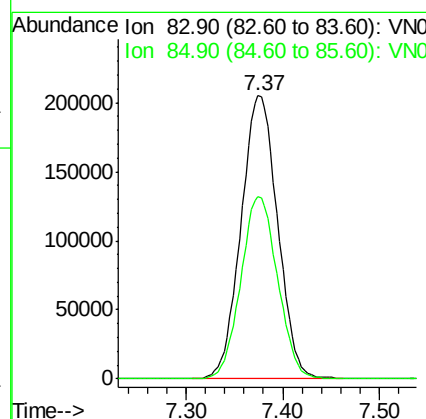
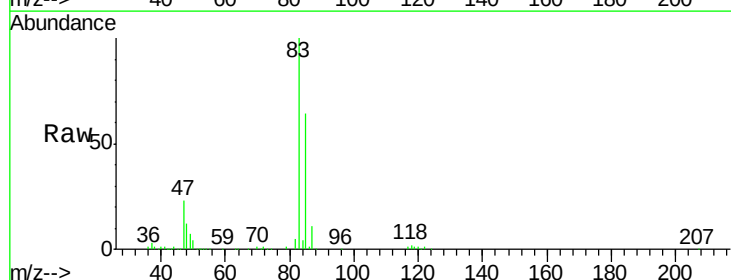
Manual Integrations
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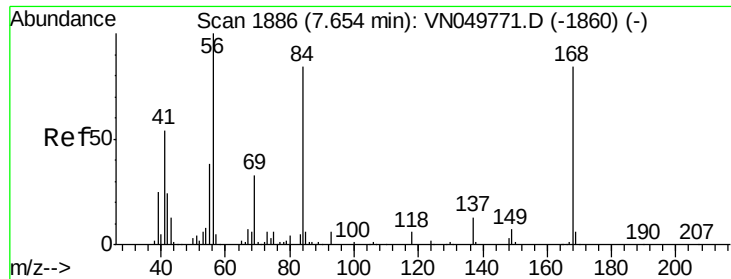
MMDadoda
7/13/2018 1:35:39 PM



#30
Chloroform
Concen: 19.40 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.4	77.2





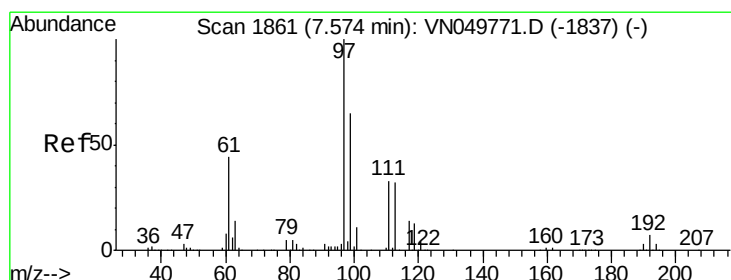
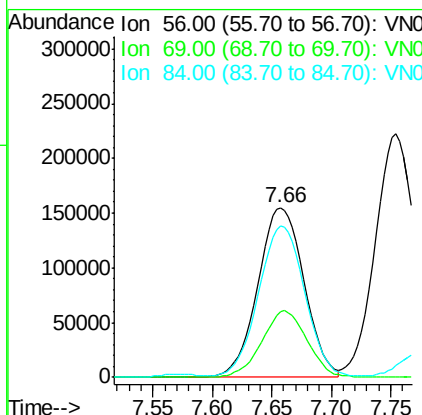
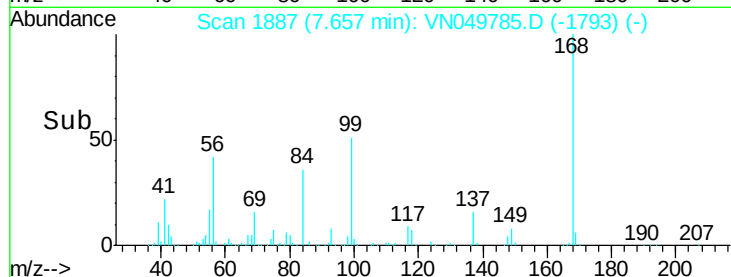
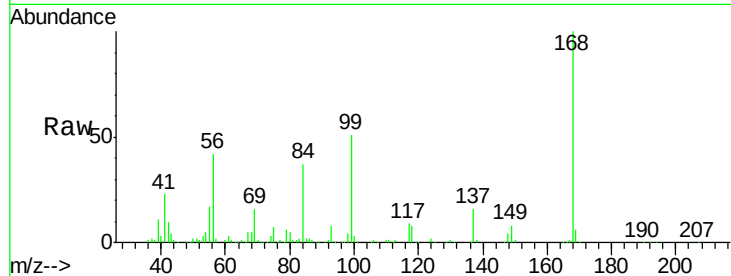
#31
Cyclohexane
Concen: 19.24 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.5	26.6	40.0
84	87.4	69.0	103.6

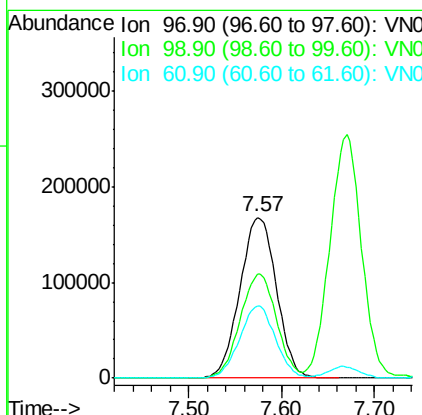
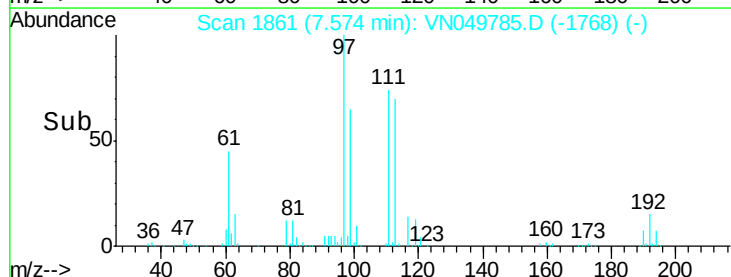
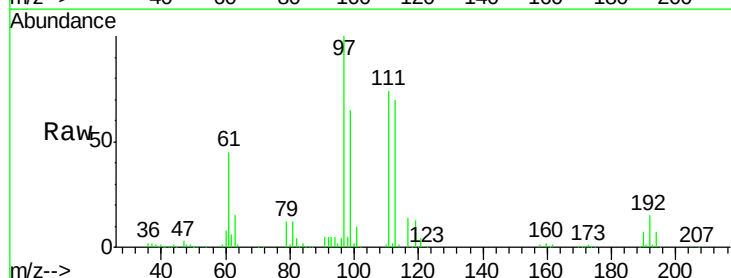
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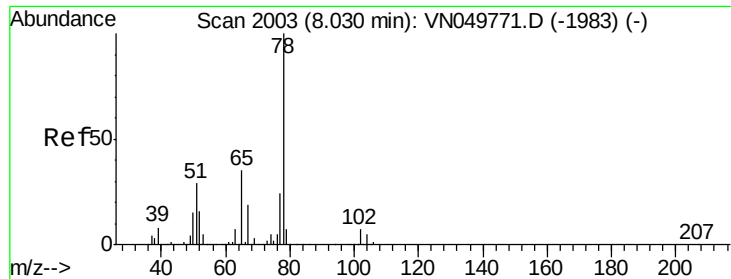
MMDadoda
7/13/2018 1:35:39 PM



#32
1,1,1-Trichloroethane
Concen: 19.51 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.0	76.4
61	44.2	35.5	53.3





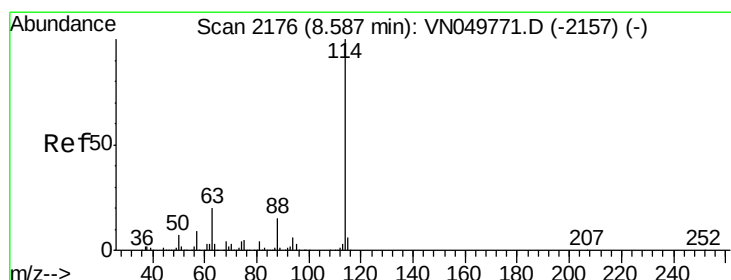
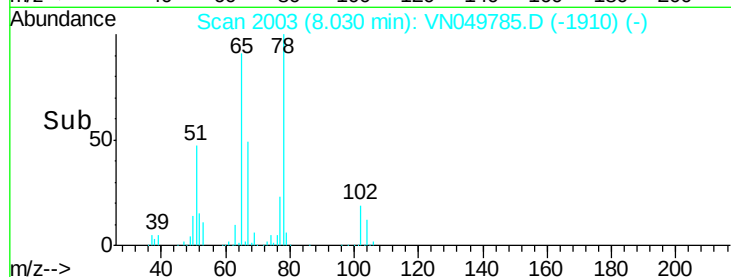
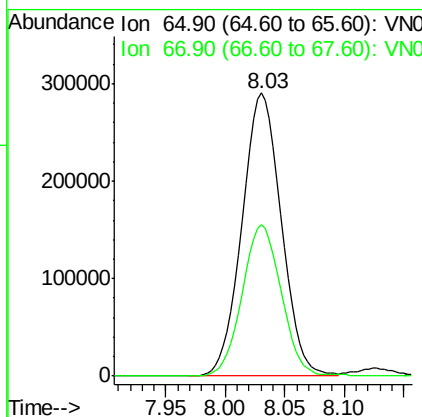
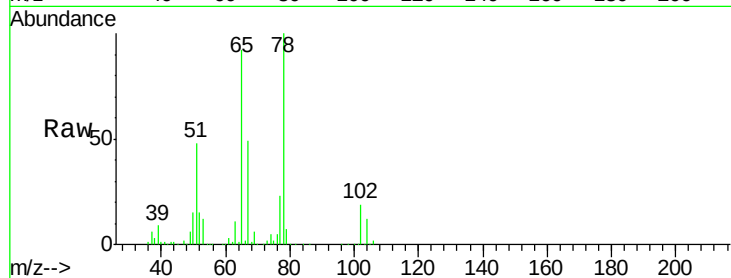
#33
 1,2-Dichloroethane-d4
 Concen: 48.25 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	664213		
67	53.3	0.0	107.2	

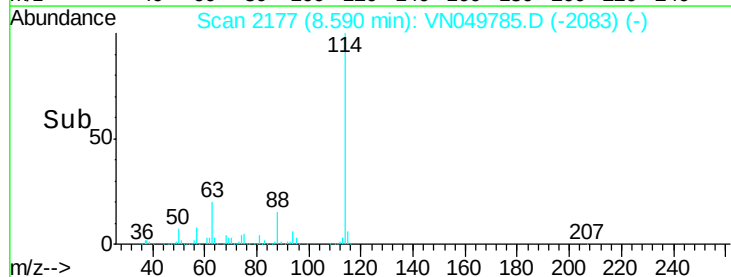
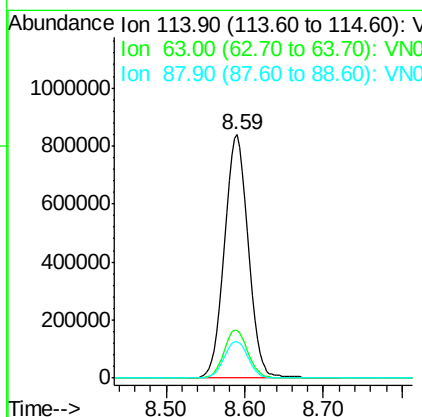
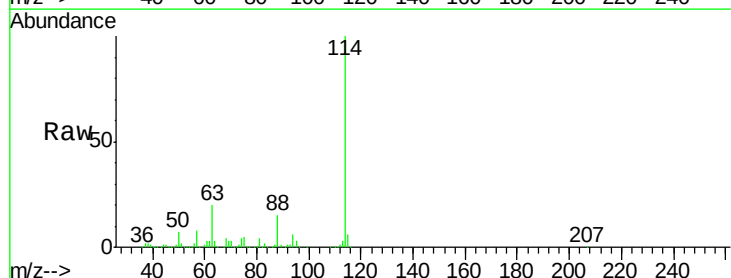
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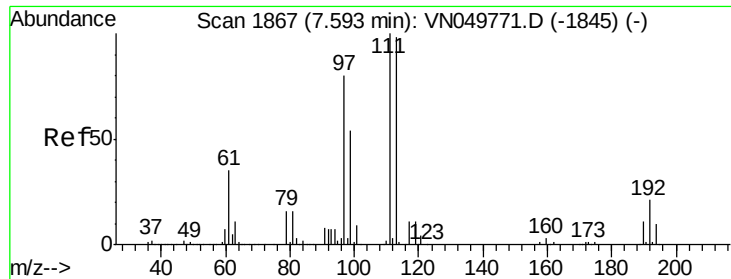
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1747332		
63	19.8	0.0	39.8	
88	15.1	0.0	30.6	





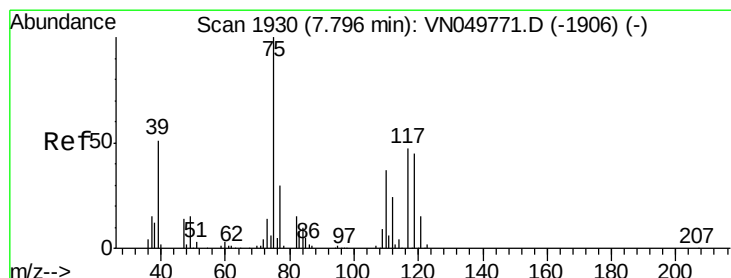
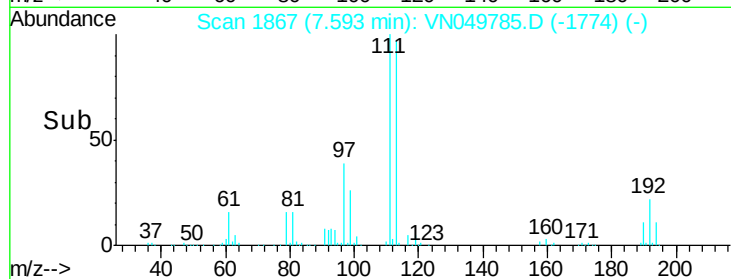
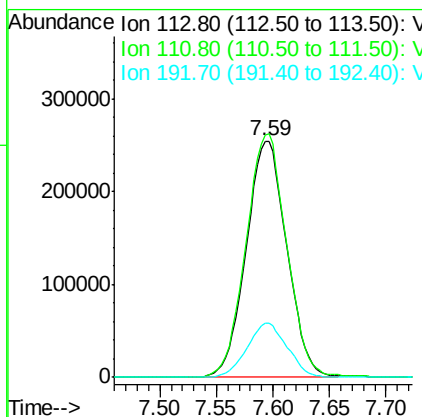
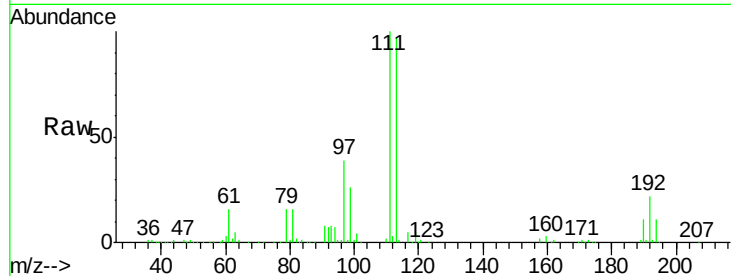
#35
 Dibromofluoromethane
 Concen: 48.18 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Instrument :
 MSVOA_N
 ClientSampled :
 VN0712WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	634538		
111	103.9	81.8	122.8	
192	22.8	17.8	26.6	

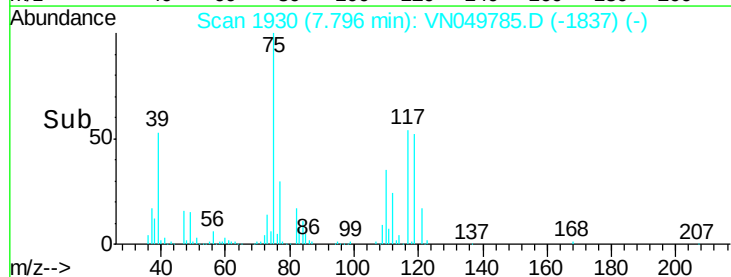
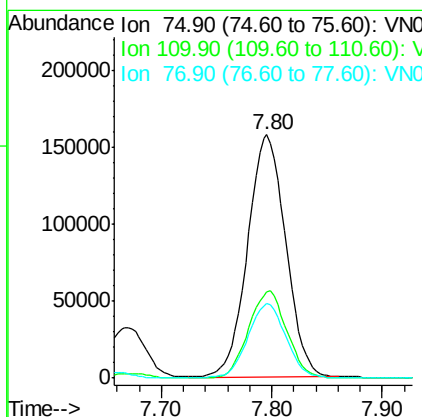
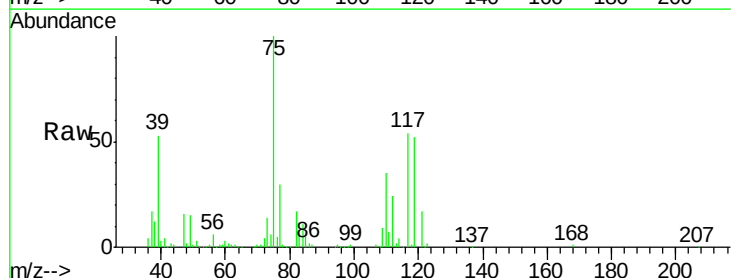
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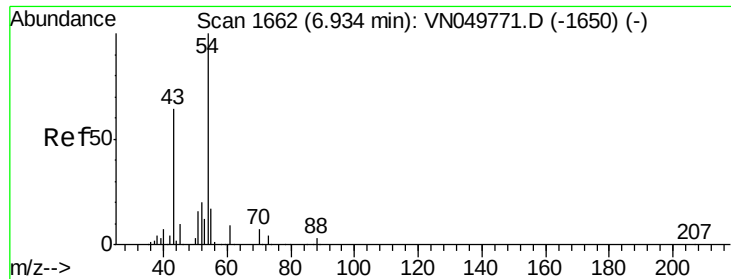
MMDadoda
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#36
 1,1-Dichloropropene
 Concen: 18.72 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	376885		
110	36.0	18.1	54.4	
77	31.0	24.9	37.3	





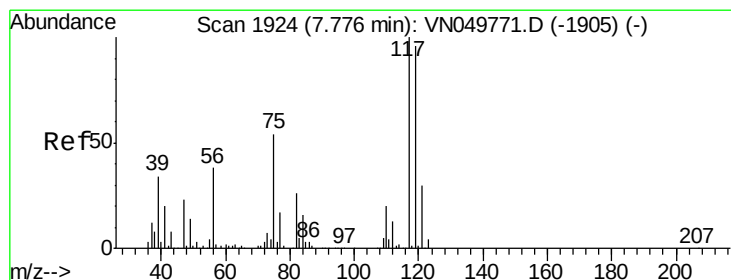
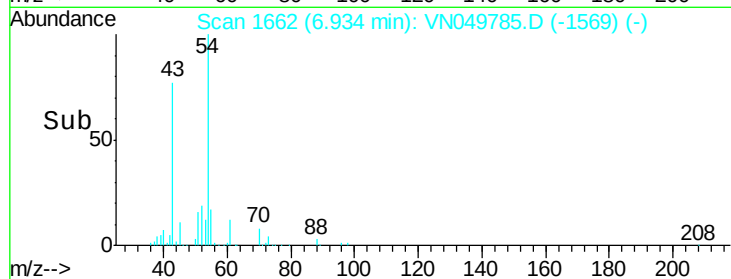
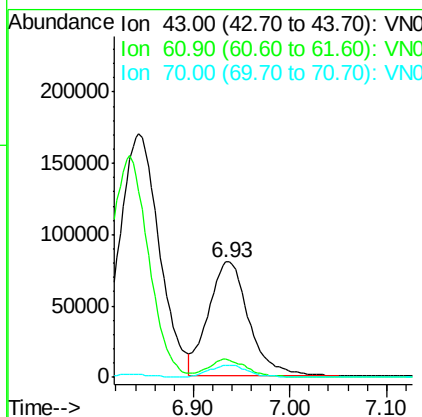
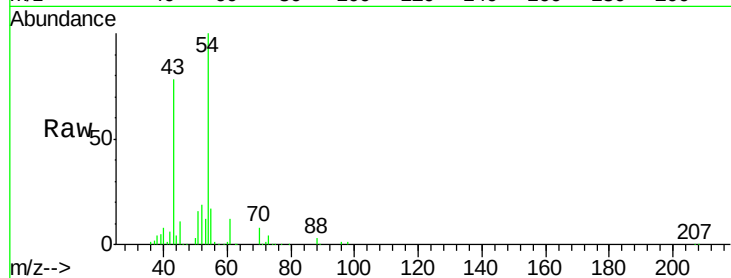
#37
Ethyl Acetate
Concen: 19.52 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	11.7	17.5
70	9.7	8.4	12.6

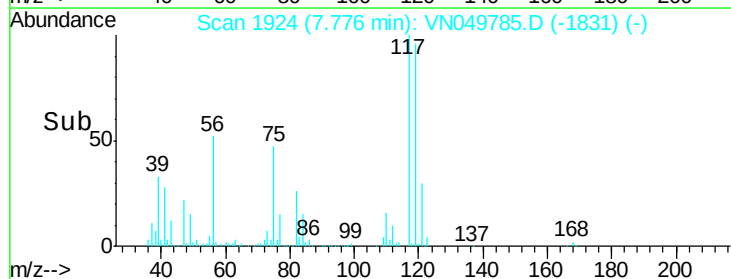
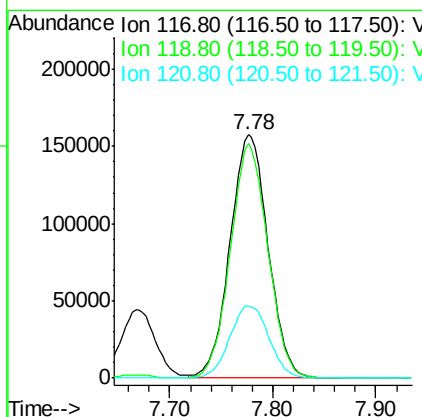
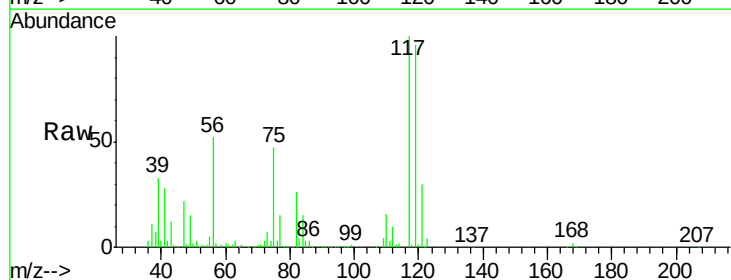
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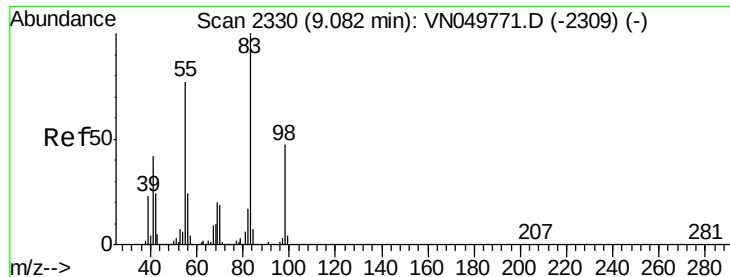
MMDadoda
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#38
Carbon Tetrachloride
Concen: 19.11 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.2	115.8
121	29.6	25.0	37.6





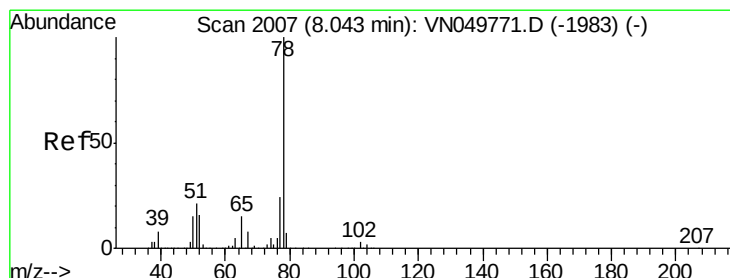
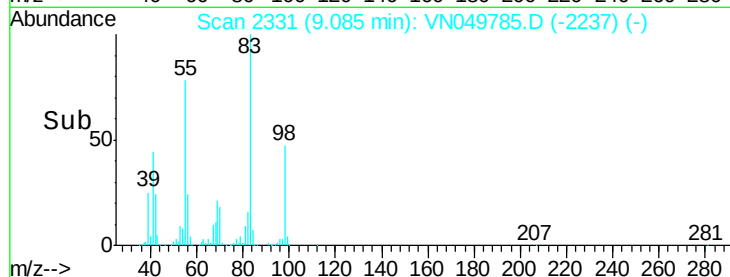
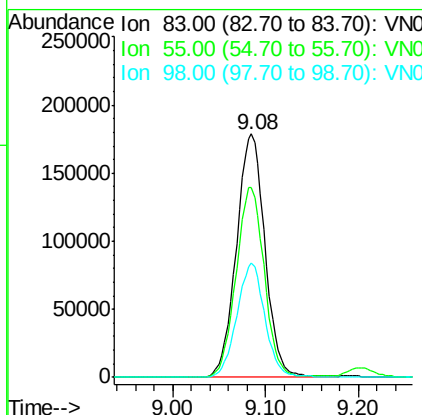
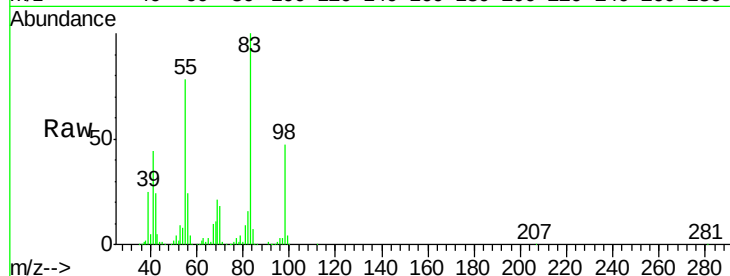
#39
Methylvlcyclohexane
Concen: 18.03 ug/l
RT: 9.08 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.0	59.7	89.5
98	46.9	36.5	54.7

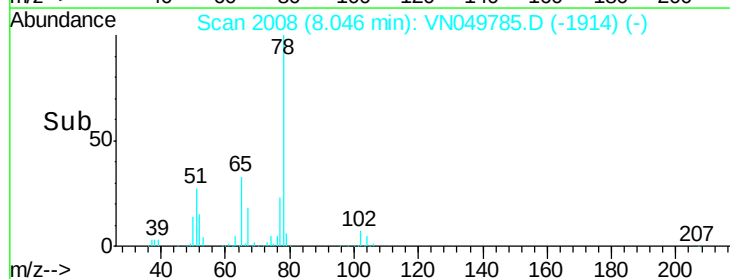
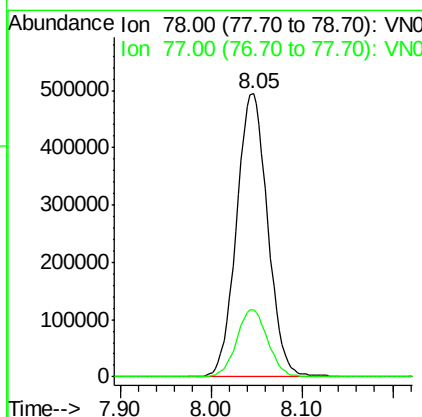
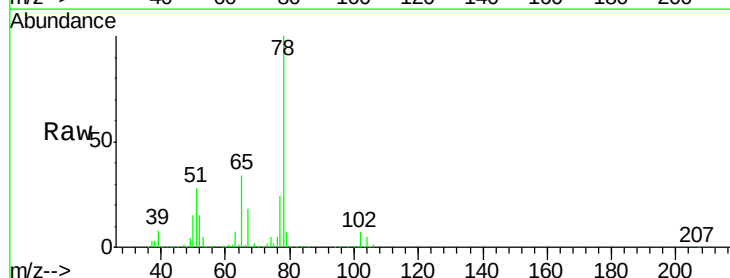
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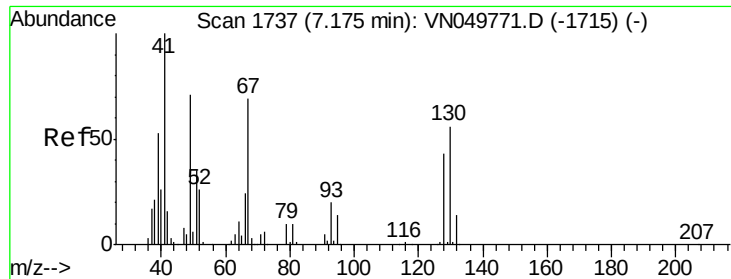
MMDadoda
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#40
Benzene
Concen: 19.50 ug/l
RT: 8.05 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4





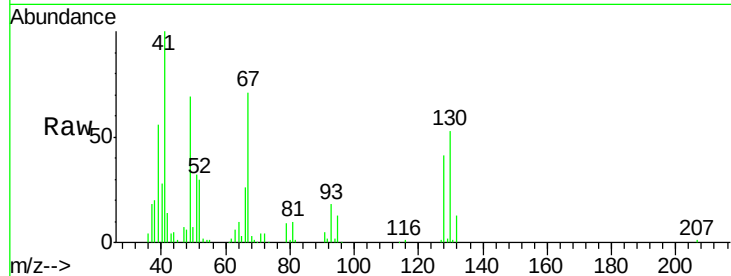
#41
Methacrylonitrile
Concen: 18.98 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampled :
VN0712WBSD01

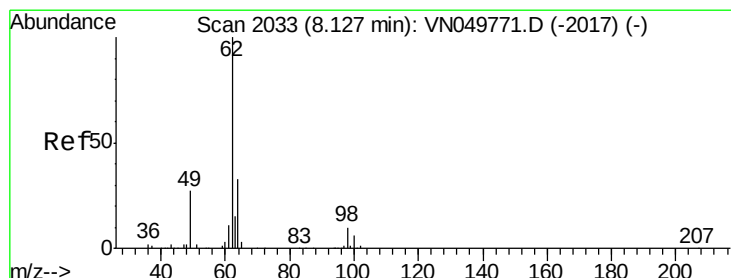
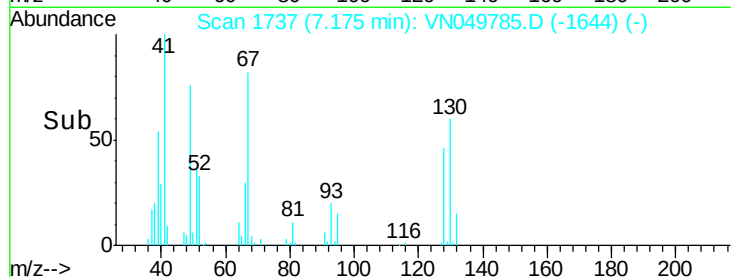
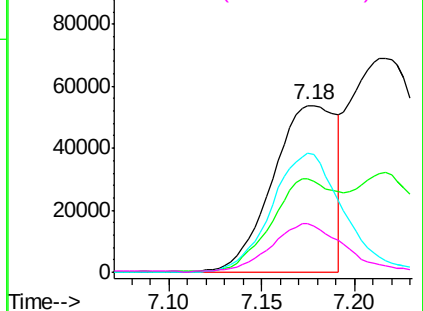
Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.4	45.4	68.2	
67	82.0	65.4	98.0	
52	33.2	24.7	37.1	

Manual Integrations
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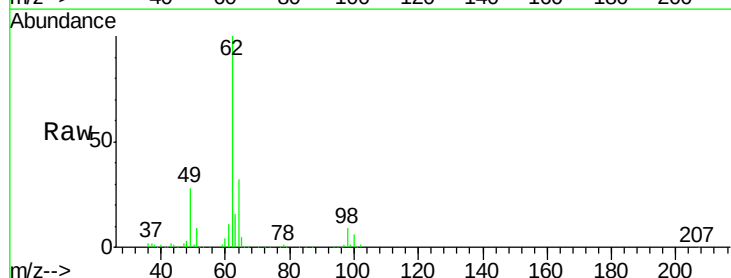


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

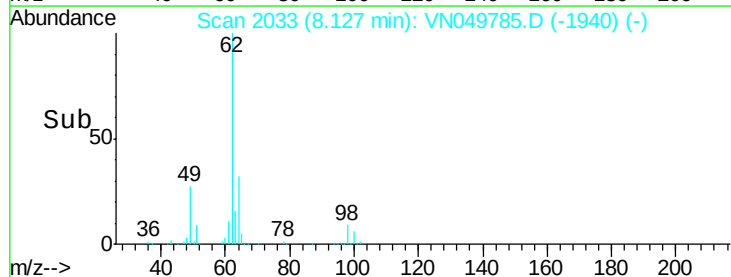
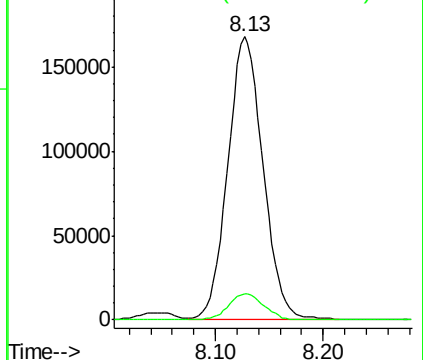


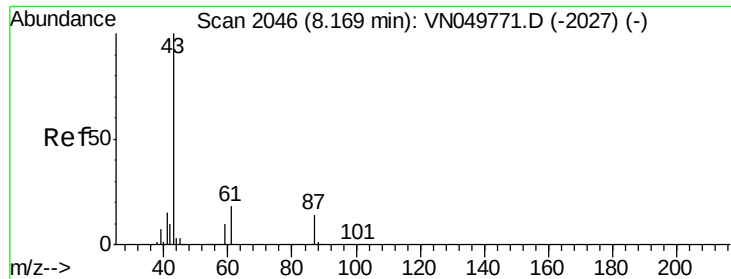
#42
1,2-Dichloroethane
Concen: 19.30 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.3	0.0	19.0	



Abundance Ion 61.90 (61.60 to 62.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 19.37 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

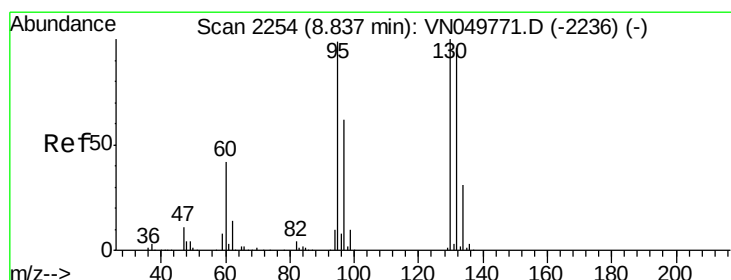
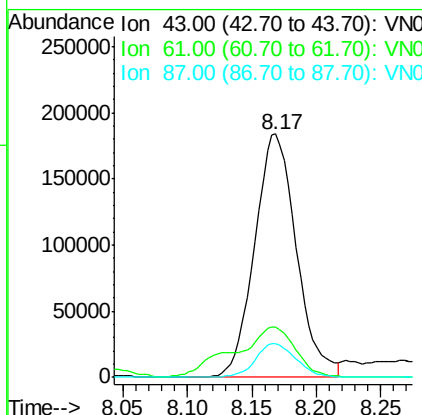
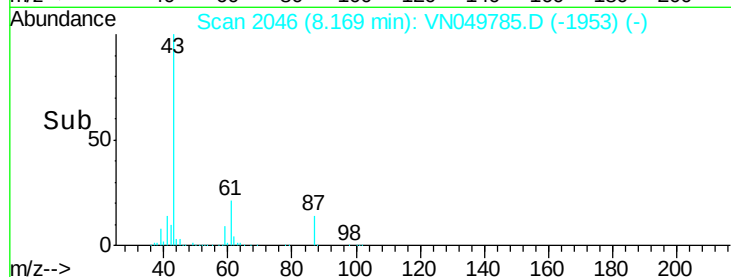
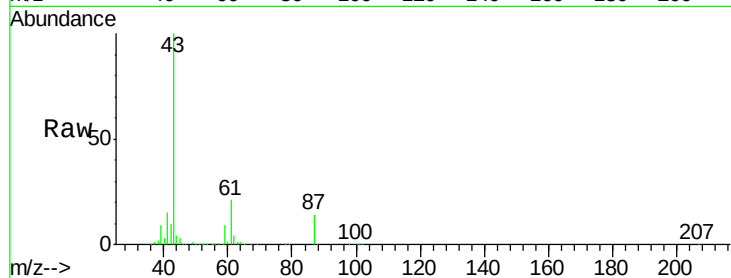
ClientSampleId :

VN0712WBSD01

Tot Ion:	43	Resp:	415020
Ion	Ratio	Lower	Upper
43	100		
61	20.3	14.9	22.3
87	13.6	10.0	15.0

Manual Integrations
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7/13/2018 1:35:39 PM



#44

Trichloroethene

Concen: 18.75 ug/l

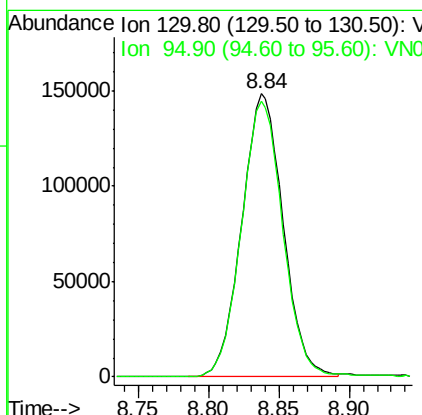
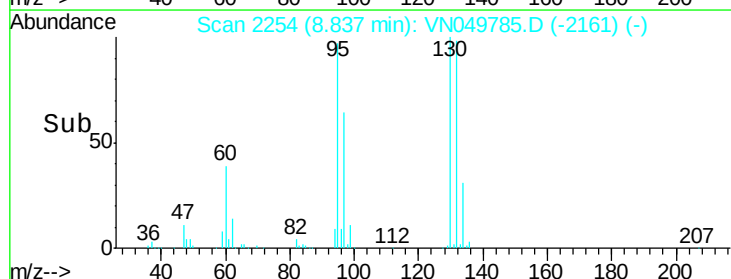
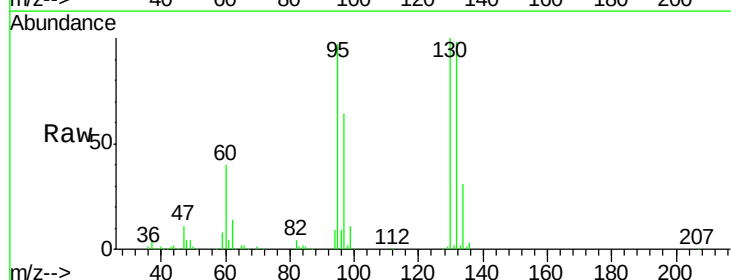
RT: 8.84 min Scan# 2254

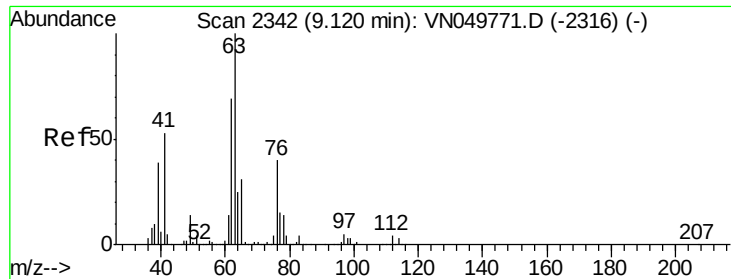
Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Tgt Ion:	130	Resp:	304078
Ion	Ratio	Lower	Upper
130	100		
95	97.3	0.0	192.8





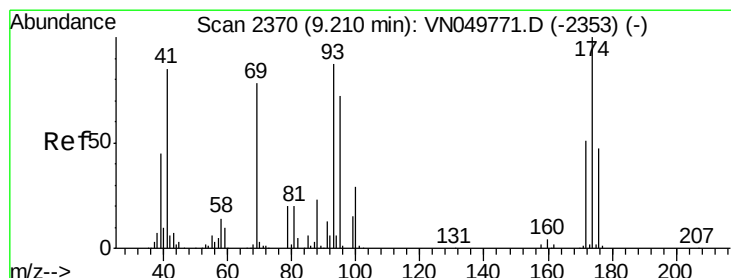
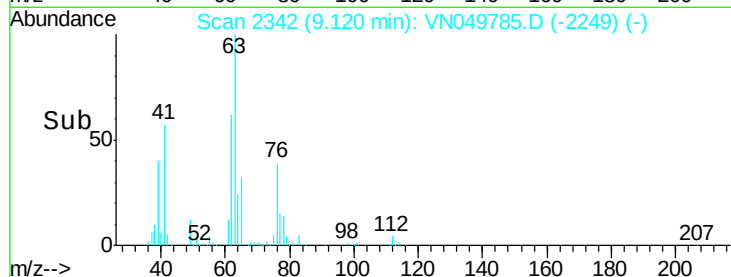
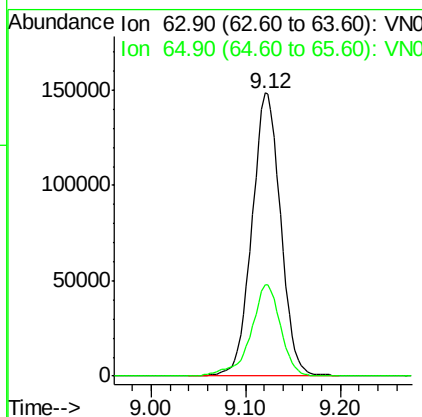
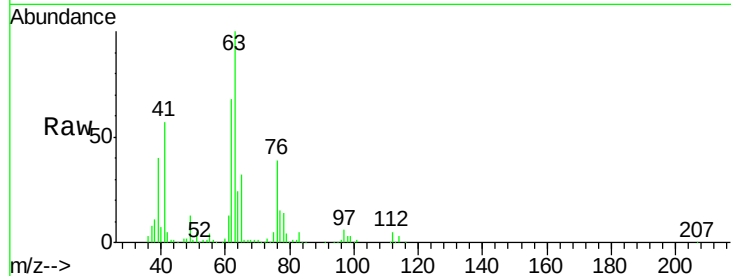
#45
 1,2-Dichloropropane
 Concen: 19.31 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBSD01

Tot Ion: 63 Resp: 312574
 Ion Ratio Lower Upper
 63 100
 65 32.3 24.7 37.1

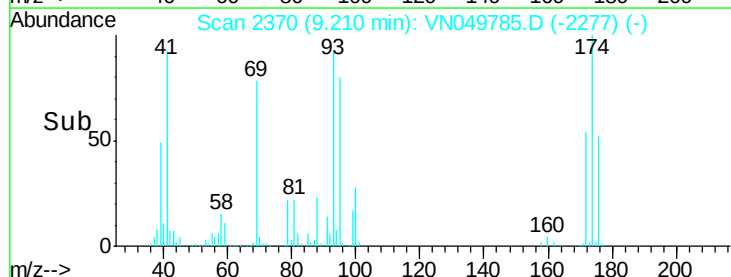
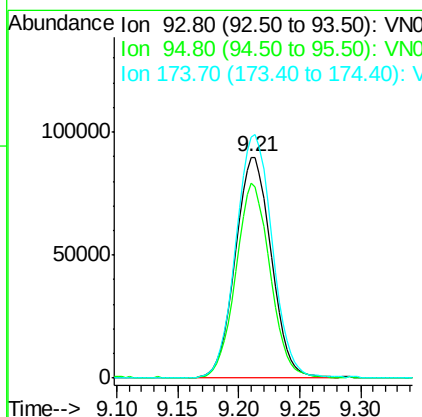
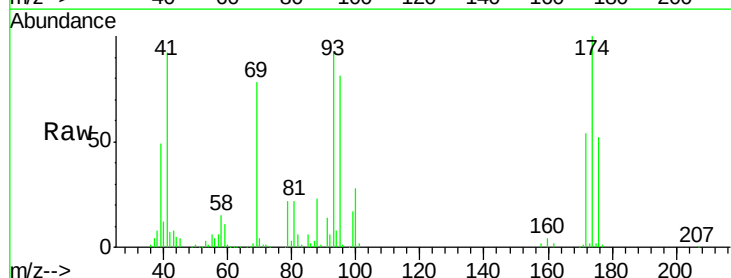
Manual Integrations
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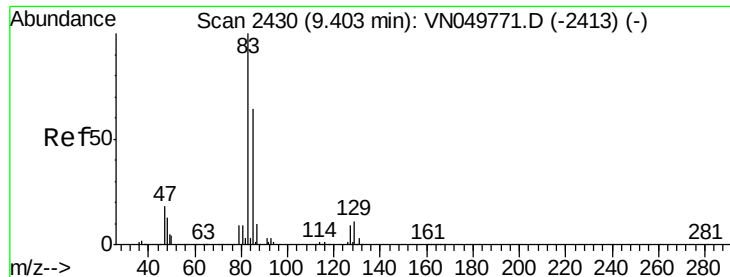
MMDadoda
 7/13/2018 1:35:39 PM



#46
 Dibromomethane
 Concen: 19.09 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Tgt Ion: 93 Resp: 183516
 Ion Ratio Lower Upper
 93 100
 95 84.5 67.9 101.9
 174 111.8 89.4 134.0





#47

Bromodichloromethane

Concen: 19.44 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

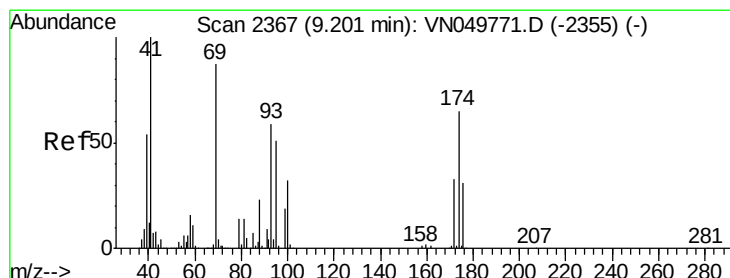
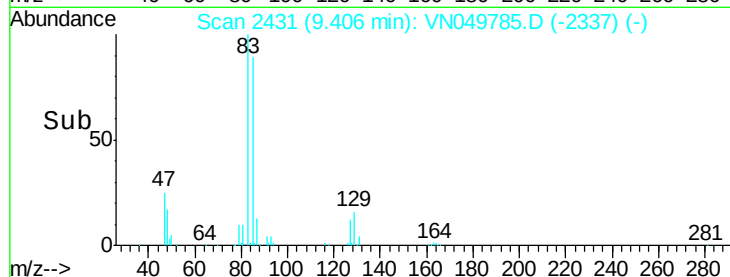
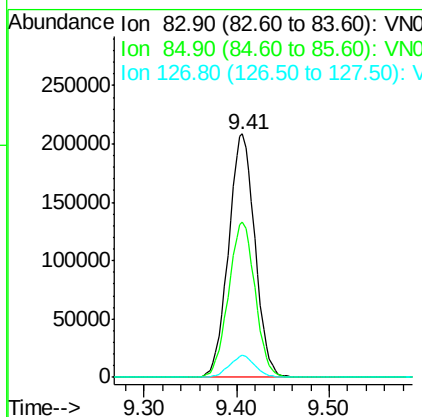
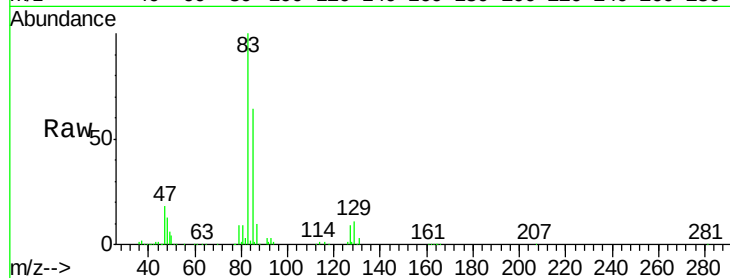
ClientSampleId :

VN0712WBSD01

Tot Ion:	83	Resp:	411543
Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.5	75.7
127	8.9	6.8	10.2

Manual Integrations
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MMDadoda
7/13/2018 1:35:39 PM



#48

Methyl methacrylate

Concen: 19.32 ug/l

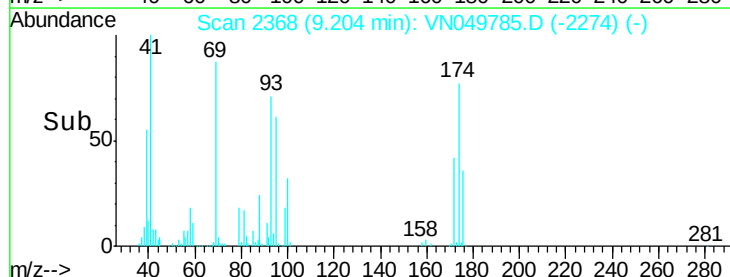
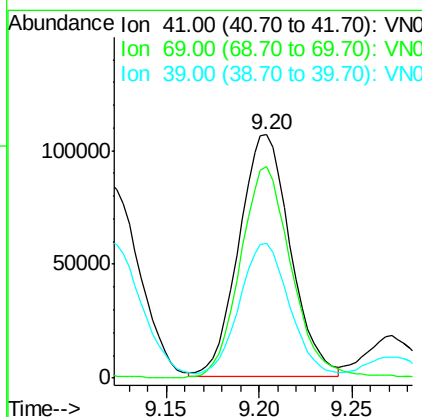
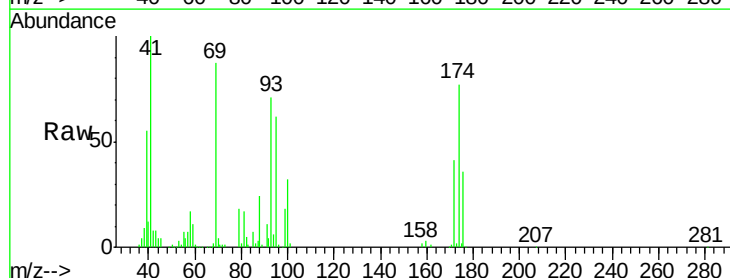
RT: 9.20 min Scan# 2368

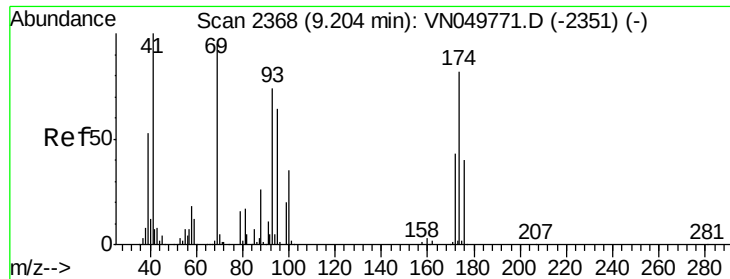
Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Tgt Ion:	41	Resp:	206898
Ion	Ratio	Lower	Upper
41	100		
69	86.2	71.5	107.3
39	54.4	44.7	67.1





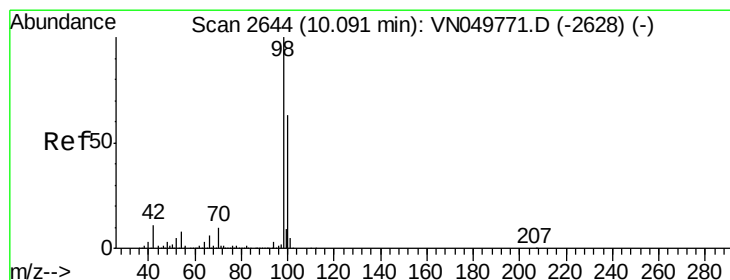
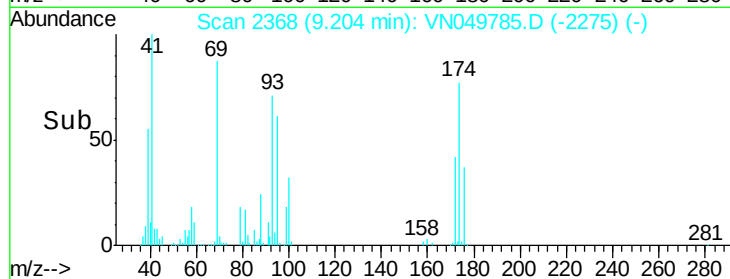
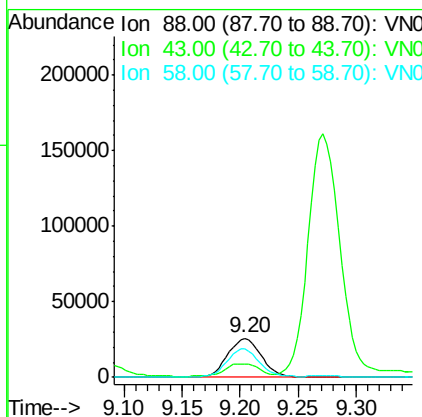
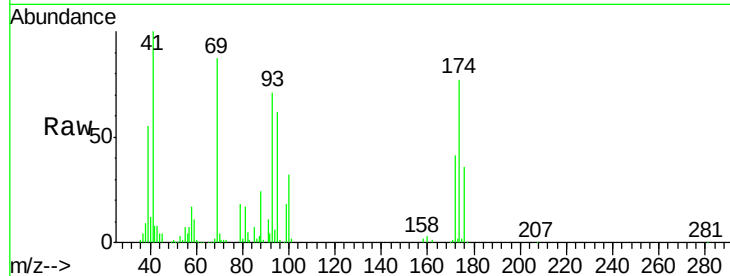
#49
1,4-Dioxane
Concen: 375.65 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion	88	Resp	52721
Ion	Ratio	Lower	Upper
88	100		
43	32.9	25.1	37.7
58	70.7	52.5	78.7

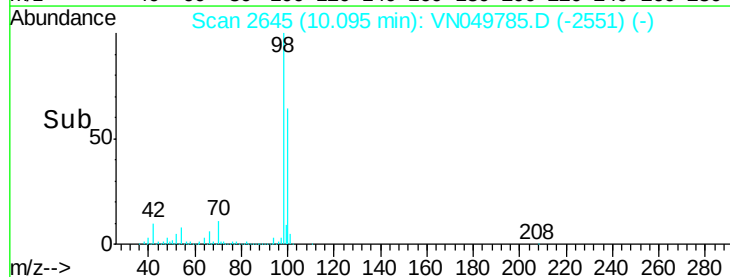
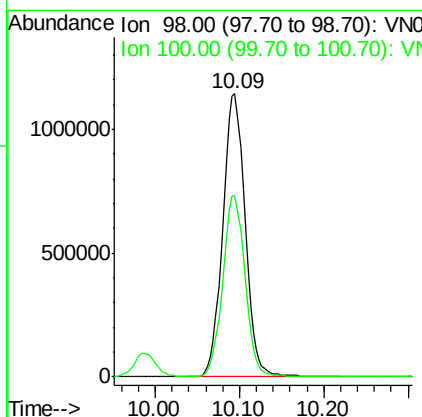
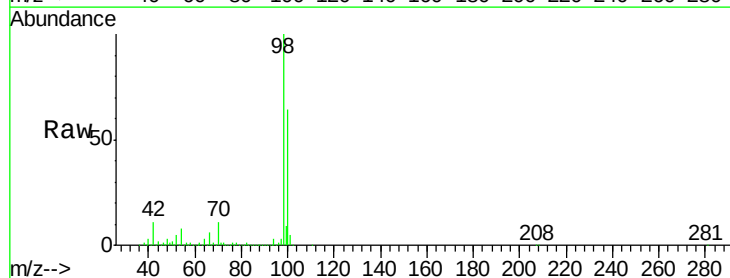
Manual Integrations
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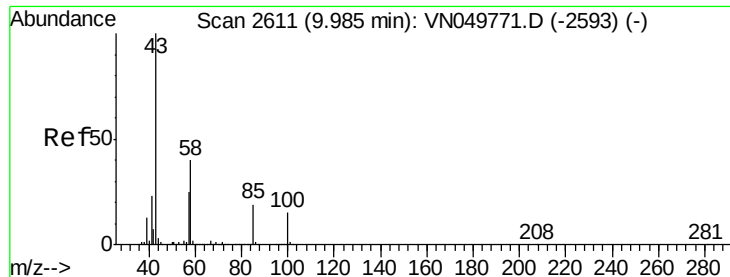
MMDadoda
7/13/2018 1:35:39 PM



#50
Toluene-d8
Concen: 46.78 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion	98	Resp	2109191
Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.7	77.5





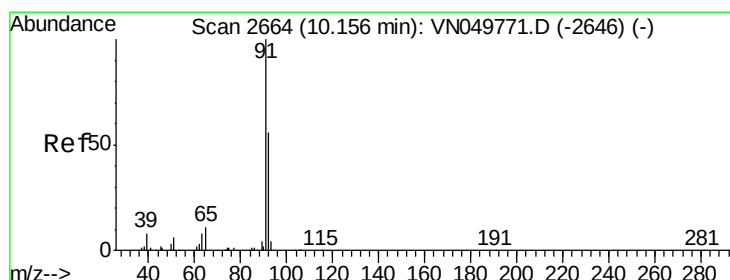
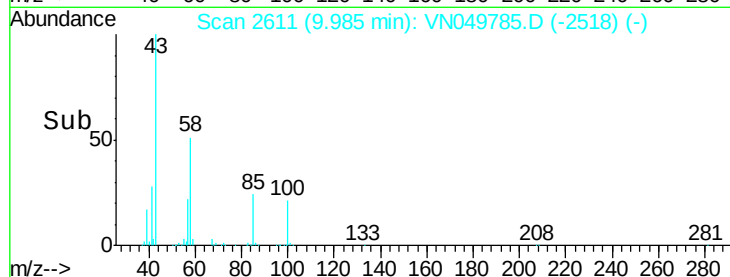
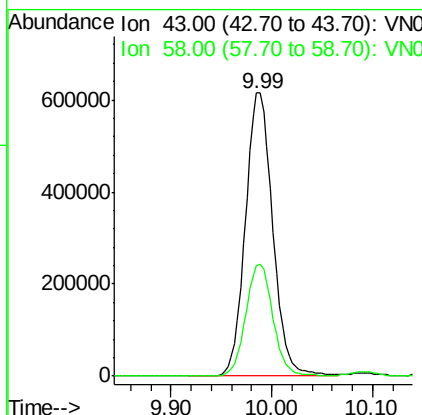
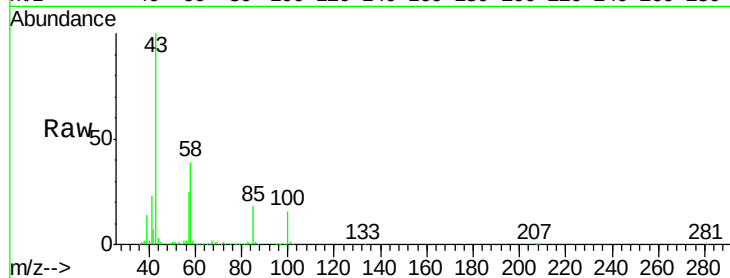
#51
4-Methyl-2-Pentanone
Concen: 98.59 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion: 43 Resp: 1146780
Ion Ratio Lower Upper
43 100
58 39.5 31.8 47.8

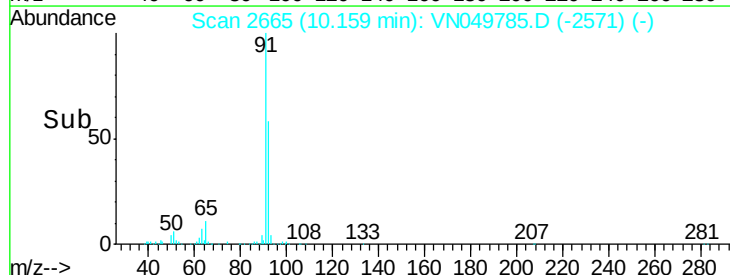
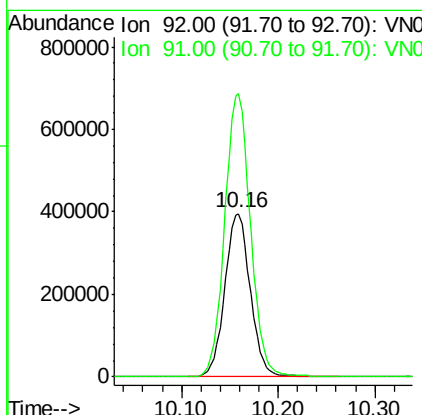
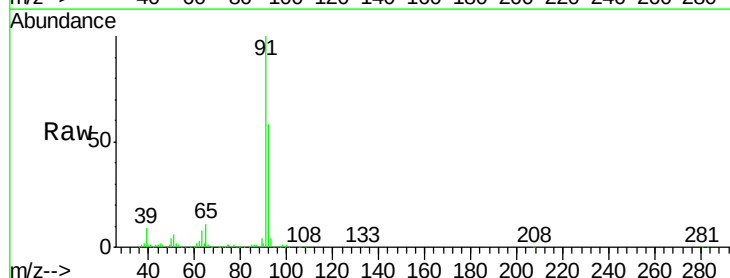
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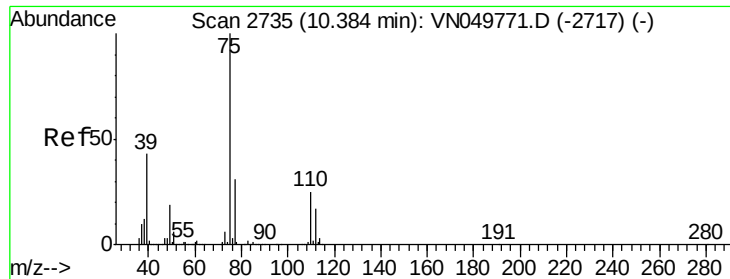
MMDadoda
7/13/2018 1:35:39 PM



#52
Toluene
Concen: 20.04 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion: 92 Resp: 722274
Ion Ratio Lower Upper
92 100
91 175.9 140.1 210.1





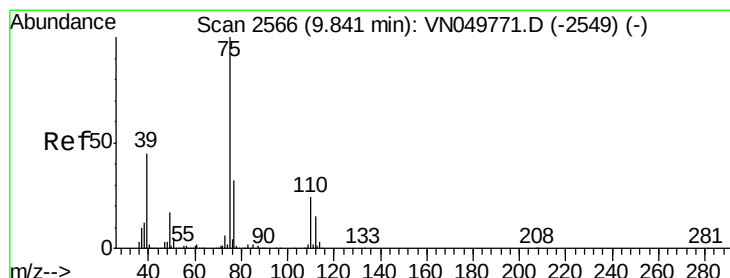
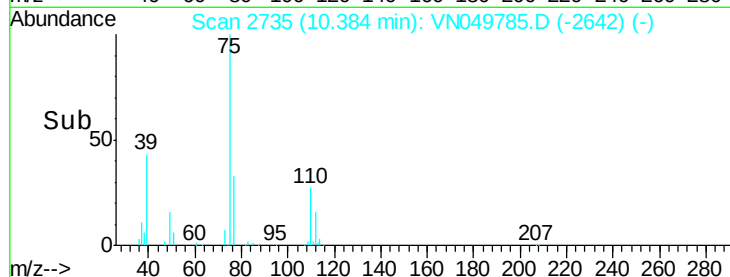
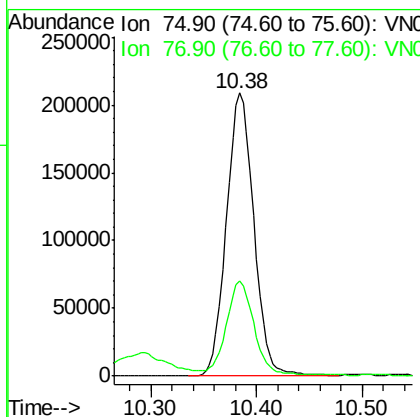
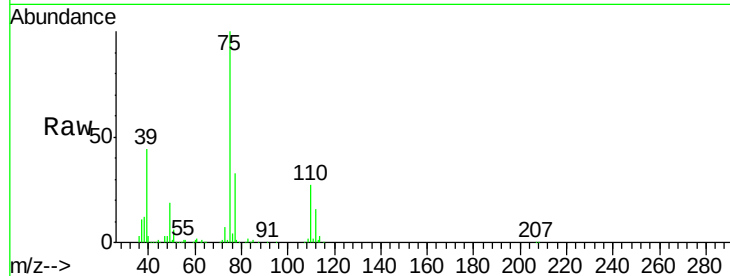
#53
t-1,3-Dichloropropene
Concen: 18.49 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.2	37.8

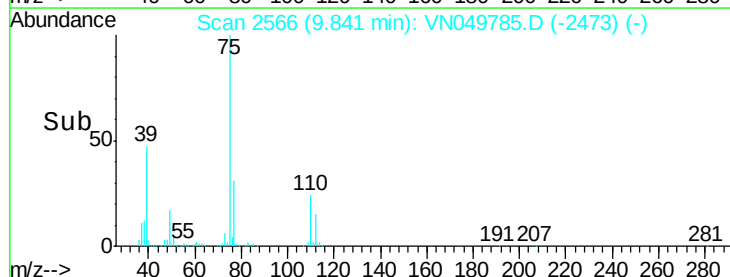
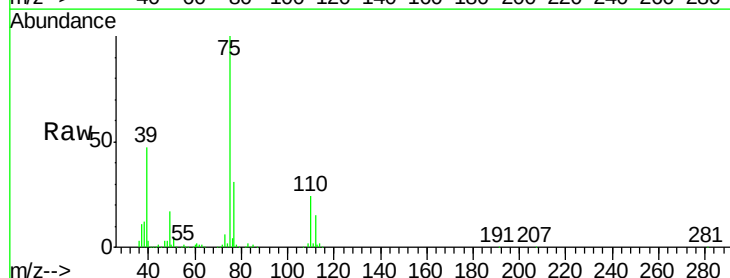
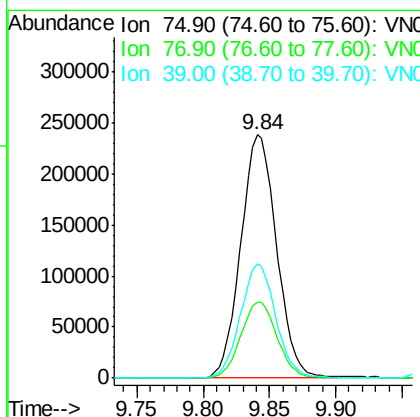
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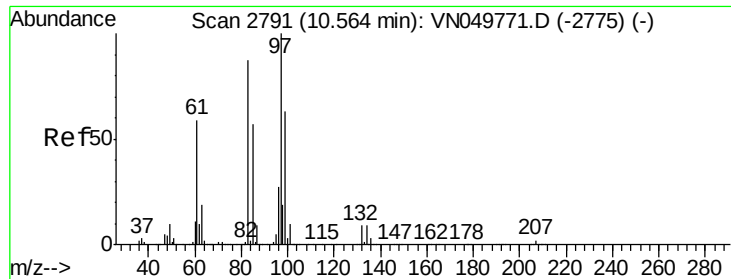
MMDadoda
7/13/2018 1:35:39 PM



#54
cis-1,3-Dichloropropene
Concen: 19.29 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.3	37.9
39	46.8	35.5	53.3





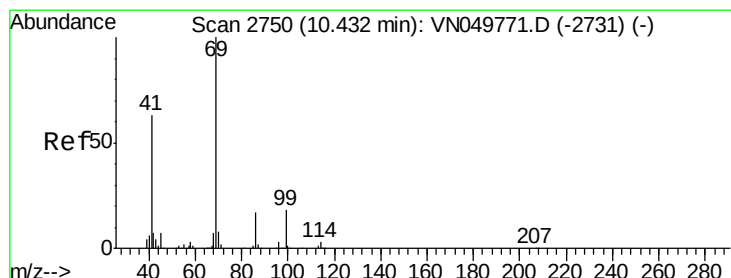
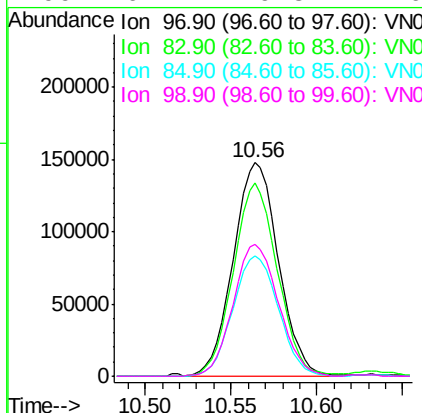
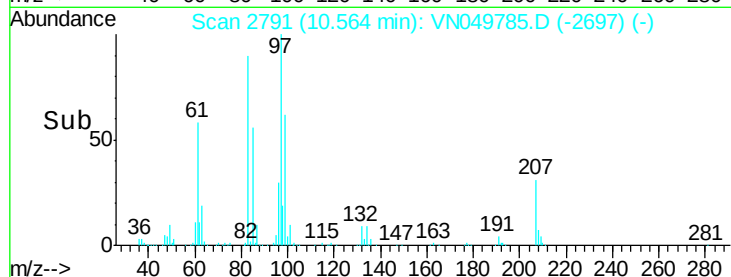
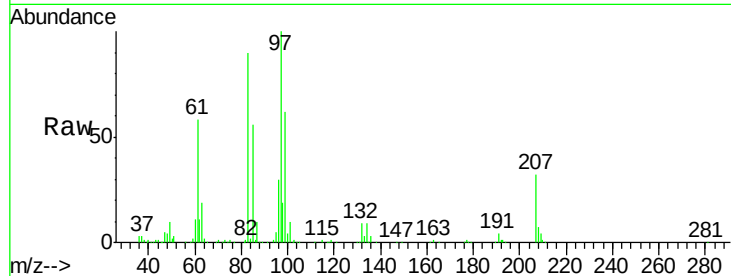
#55
 1,1,2-Trichloroethane
 Concen: 19.35 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		269587		
83	90.0	69.0	103.6		
85	56.2	44.9	67.3		
99	61.7	49.8	74.6		

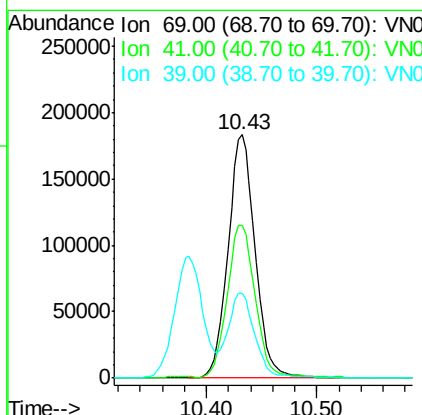
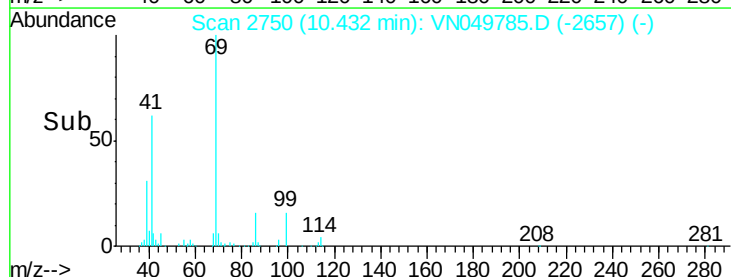
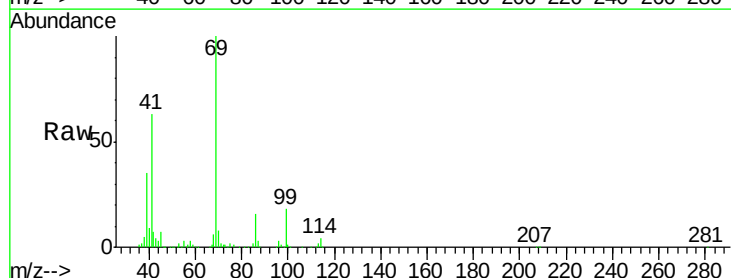
Manual Integrations
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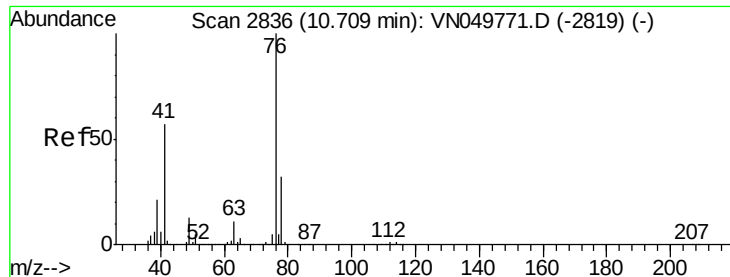
MMDadoda
 7/13/2018 1:35:39 PM



#56
 Ethyl methacrylate
 Concen: 19.18 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		312111		
41	64.1	51.6	77.4		
39	34.1	25.8	38.8		





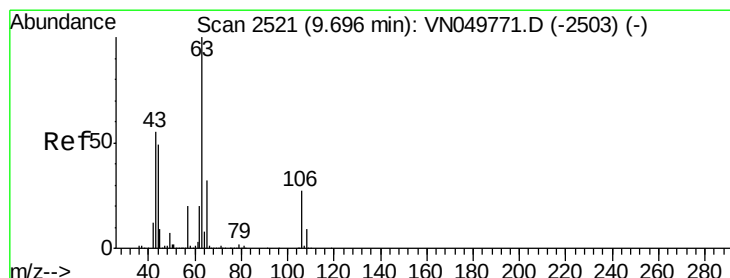
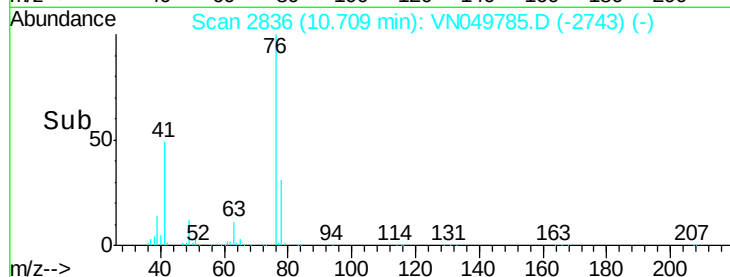
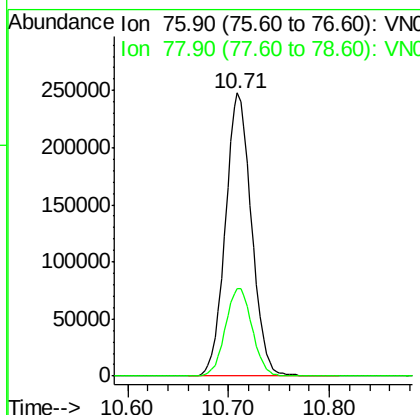
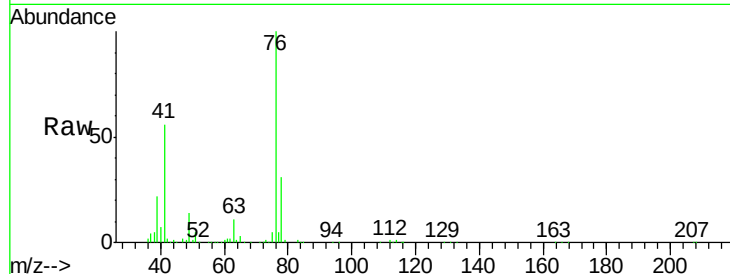
#57
 1,3-Dichloropropane
 Concen: 19.48 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBSD01

Tot Ion: 76 Resp: 447479
 Ion Ratio Lower Upper
 76 100
 78 31.8 25.8 38.8

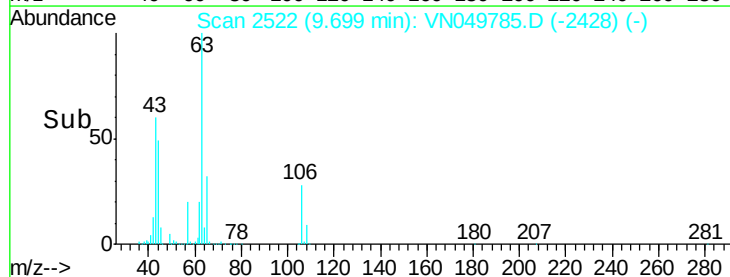
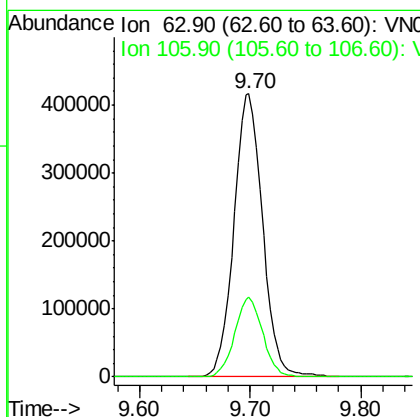
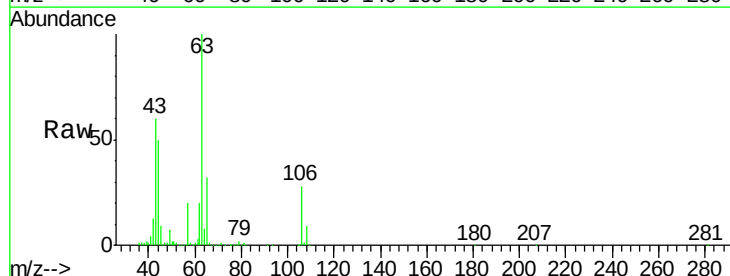
Manual Integrations
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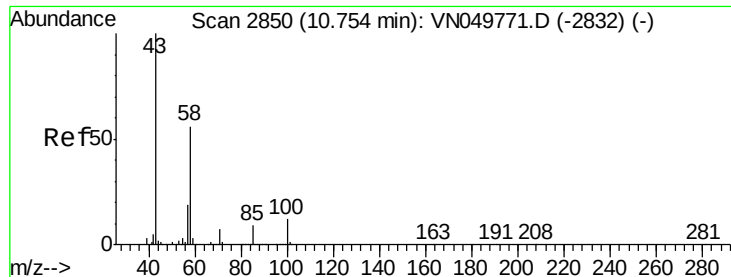
MMDadoda
 7/13/2018 1:35:39 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 96.28 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Tgt Ion: 63 Resp: 751376
 Ion Ratio Lower Upper
 63 100
 106 27.5 21.8 32.8





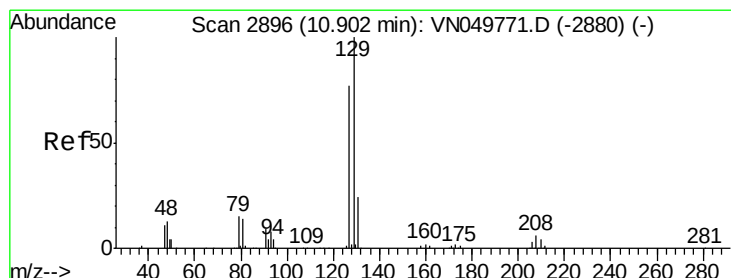
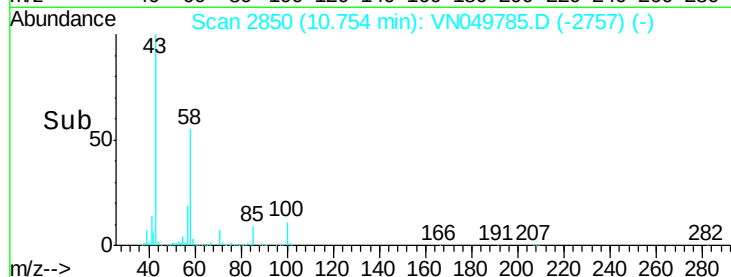
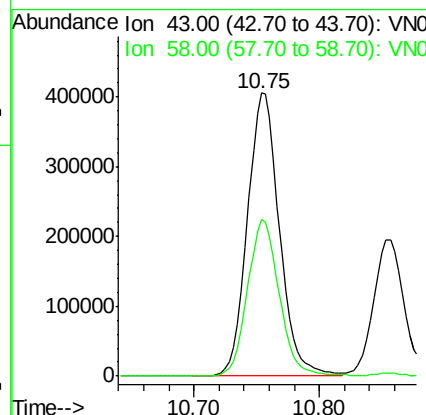
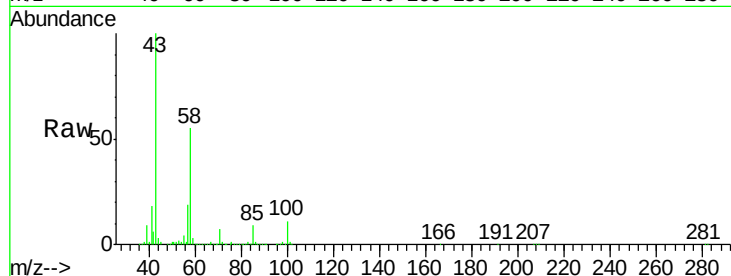
#59
2-Hexanone
Concen: 92.68 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion: 43 Resp: 716687
Ion Ratio Lower Upper
43 100
58 55.2 27.8 83.4

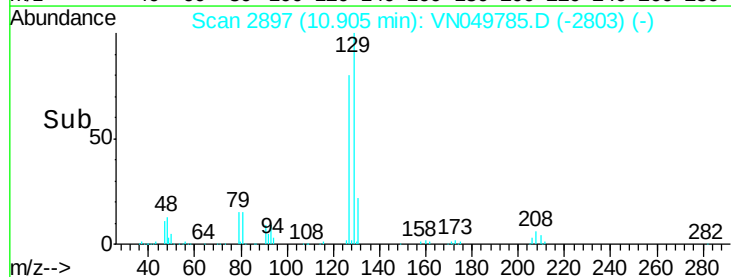
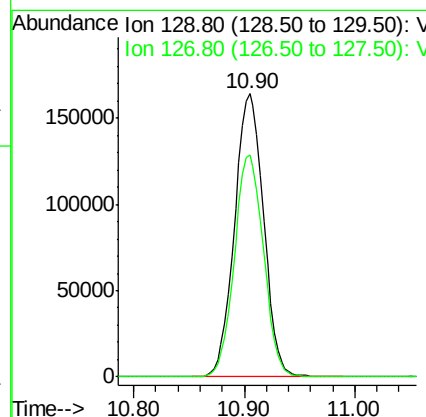
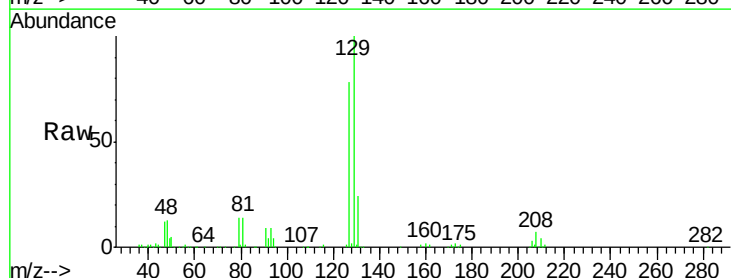
Manual Integrations
APPROVED

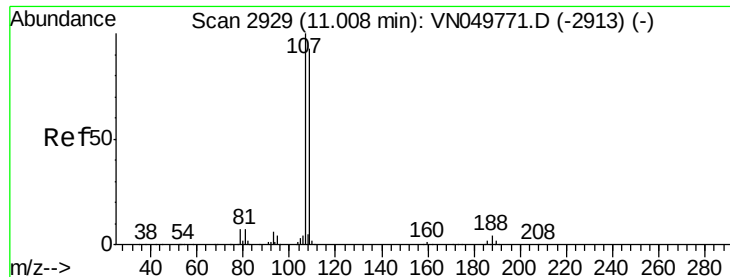
MMDadoda
7/13/2018 1:35:39 PM



#60
Dibromochloromethane
Concen: 19.00 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion: 129 Resp: 300021
Ion Ratio Lower Upper
129 100
127 78.7 38.3 114.9





#61

1,2-Dibromoethane

Concen: 19.53 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampleId :

VN0712WBSD01

Tot Ion:107 Resp: 256194

Ion Ratio Lower Upper

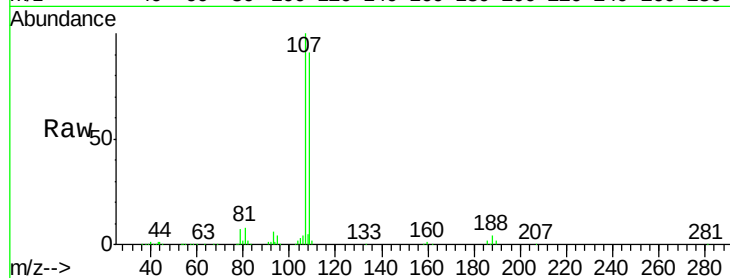
107 100

109 91.8 75.0 112.6

Manual Integrations
APPROVED

MMDadoda

7/13/2018 1:35:39 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

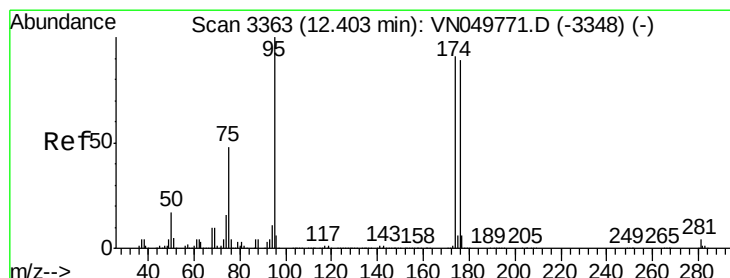
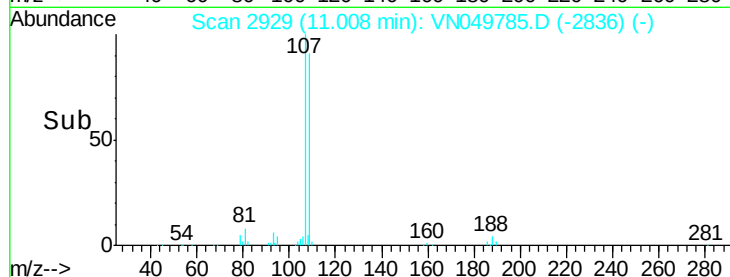
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 46.07 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

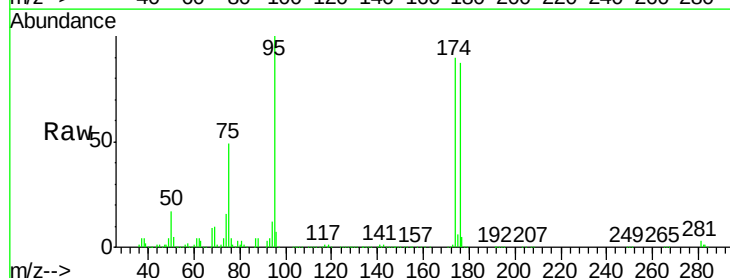
Tgt Ion: 95 Resp: 741792

Ion Ratio Lower Upper

95 100

174 90.1 0.0 179.6

176 87.4 0.0 174.0



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

600000

500000

400000

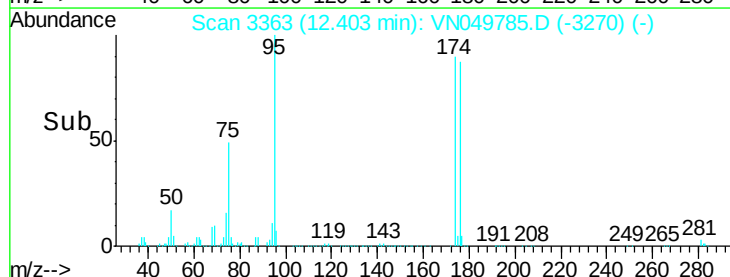
300000

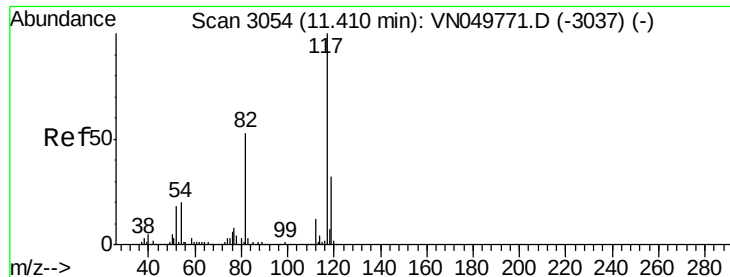
200000

100000

0

Time-->





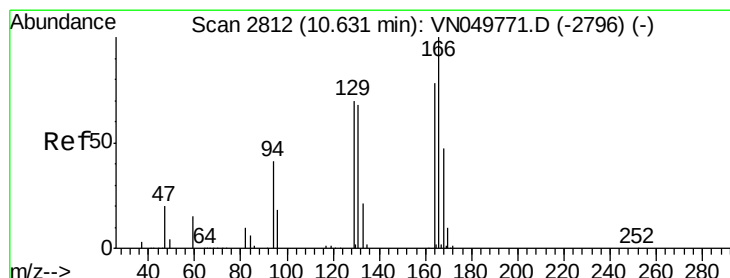
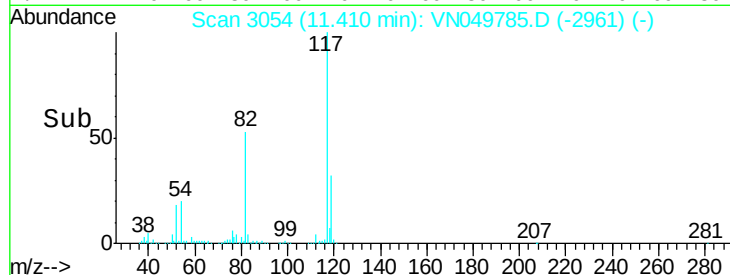
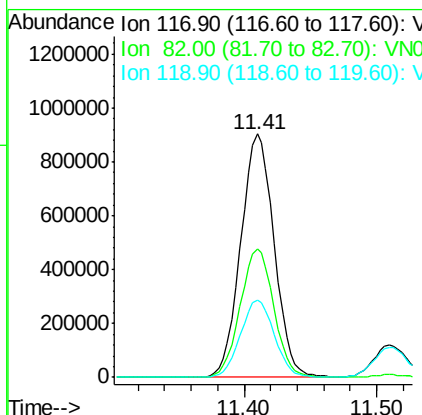
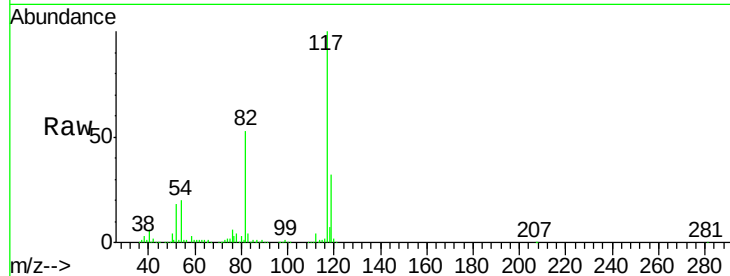
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampleId :
VN0712WBSD01

Tot Ion:117 Resp: 1583074
Ion Ratio Lower Upper
117 100
82 53.0 41.9 62.9
119 31.7 25.4 38.2

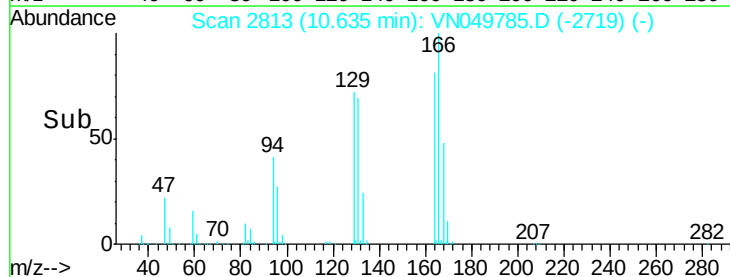
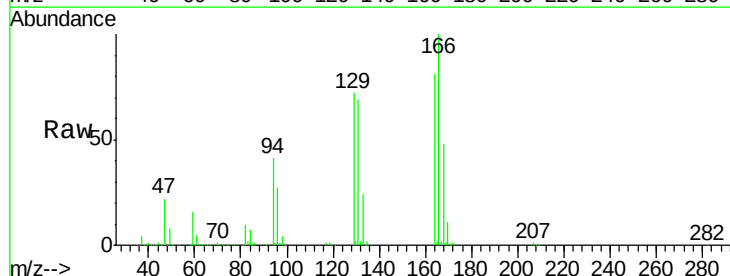
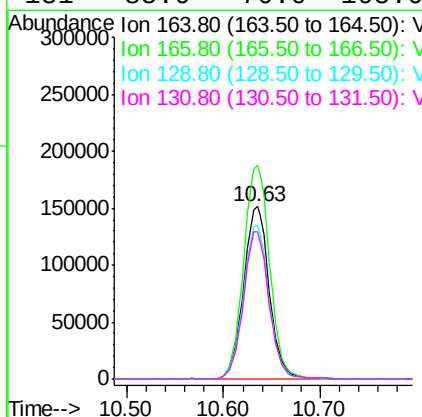
Manual Integrations
APPROVED

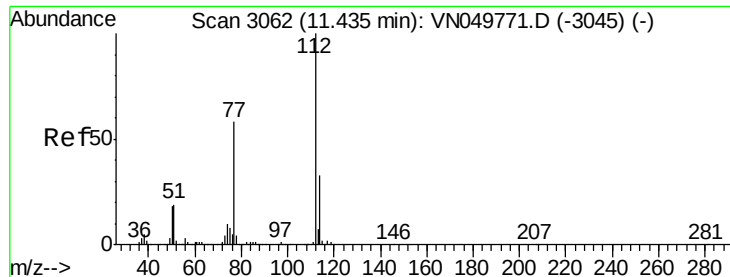
MMDadoda
7/13/2018 1:35:39 PM



#64
Tetrachloroethene
Concen: 19.32 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion:164 Resp: 277680
Ion Ratio Lower Upper
164 100
166 123.7 101.8 152.6
129 89.1 72.8 109.2
131 85.0 70.0 105.0





#65

Chlorobenzene

Concen: 18.85 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampled :

VN0712WBSD01

Tot Ion:112 Resp: 777500

Ion Ratio Lower Upper

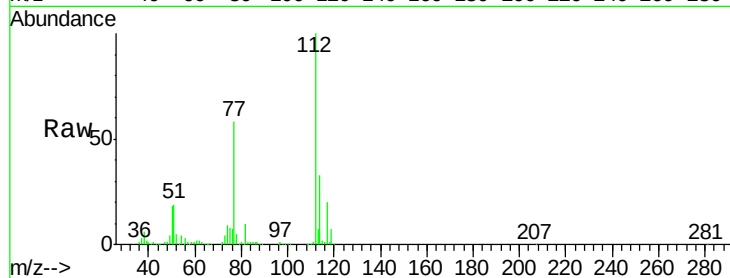
112 100

114 32.6 25.4 38.0

Manual Integrations
APPROVED

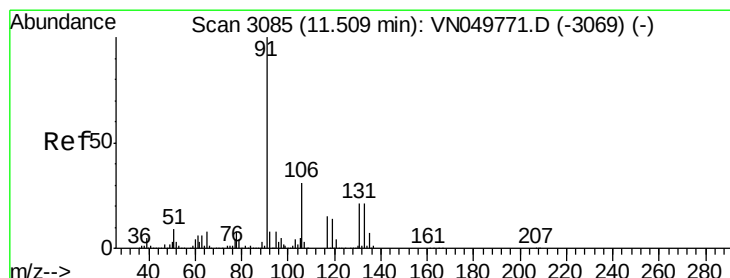
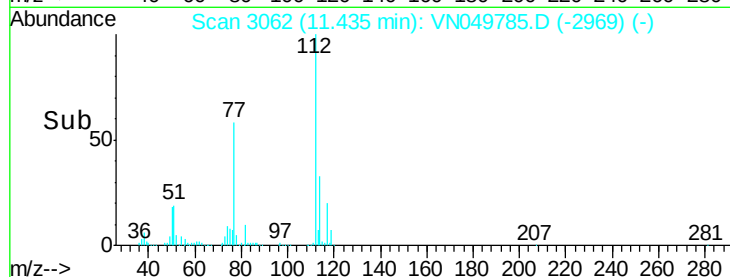
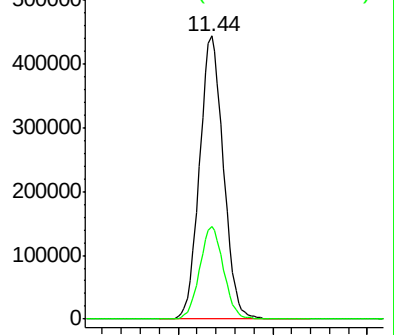
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 19.74 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

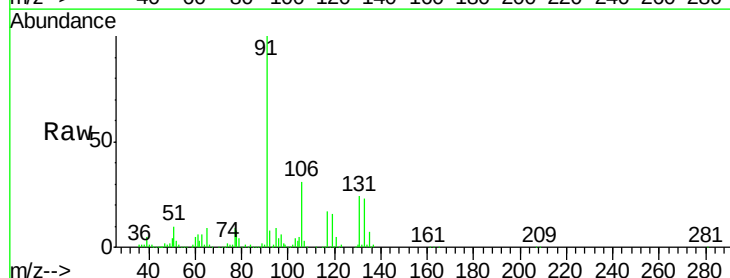
Tgt Ion:131 Resp: 306268

Ion Ratio Lower Upper

131 100

133 93.7 47.5 142.6

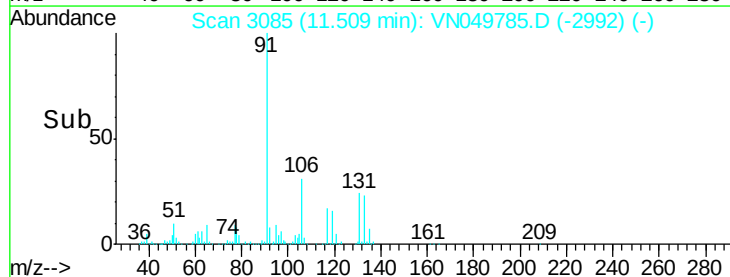
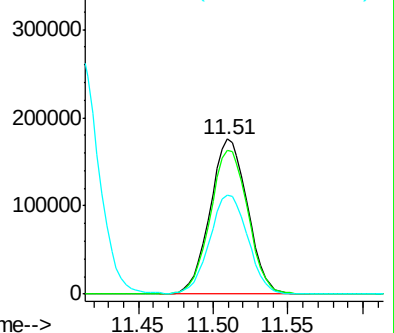
119 65.0 33.1 99.3

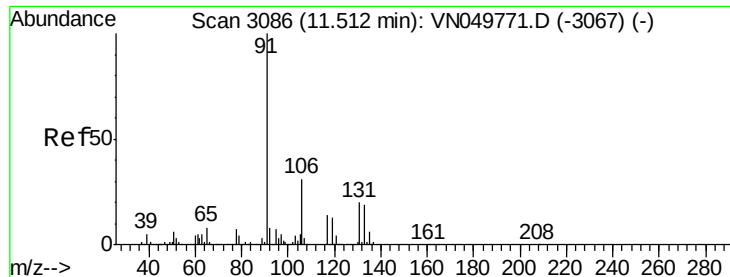


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 19.36 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampleId :

VN0712WBSD01

Tot Ion: 91 Resp: 1307290

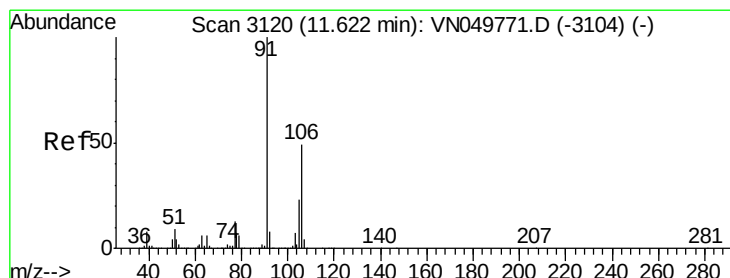
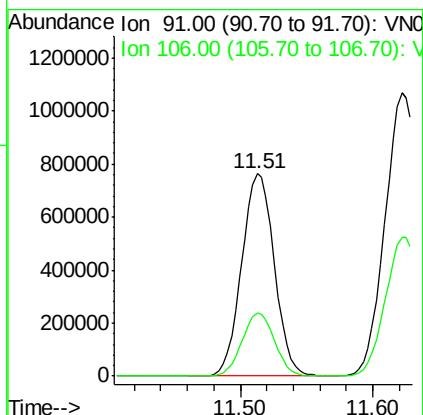
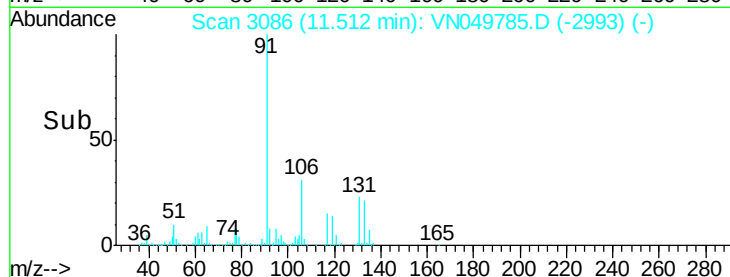
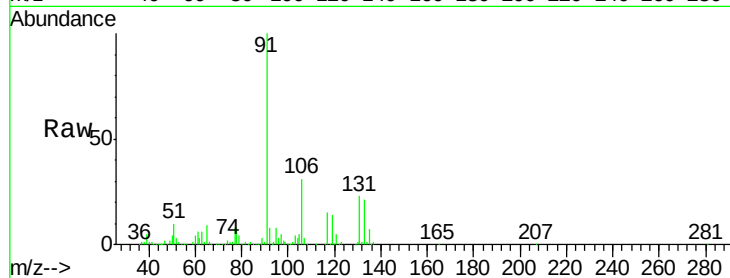
Ion Ratio Lower Upper

91 100

106 31.3 24.8 37.2

Manual Integrations
APPROVED

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#68

m/p-Xylenes

Concen: 39.62 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN049785.D

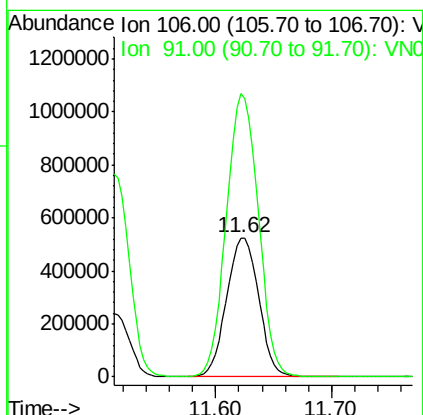
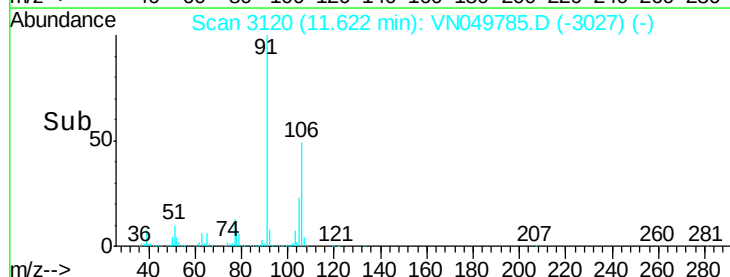
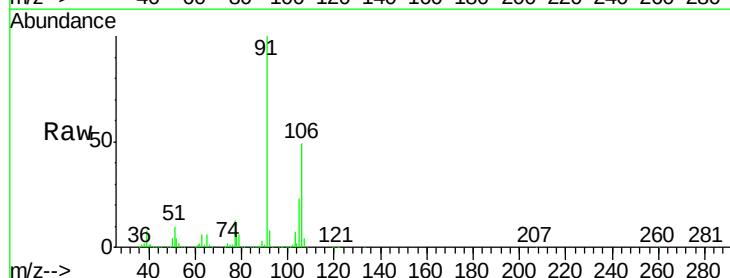
Acq: 12 Jul 2018 22:19

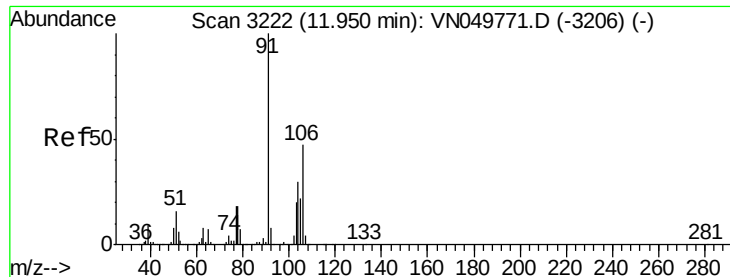
Tgt Ion: 106 Resp: 1004221

Ion Ratio Lower Upper

106 100

91 203.2 163.4 245.2





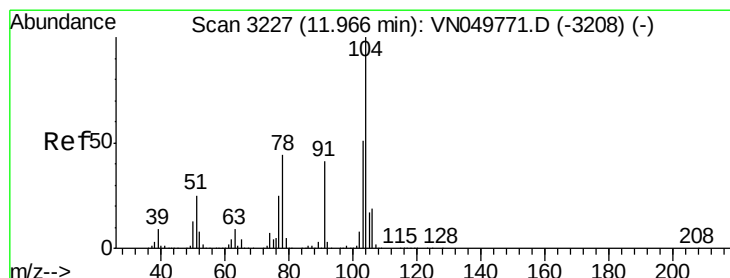
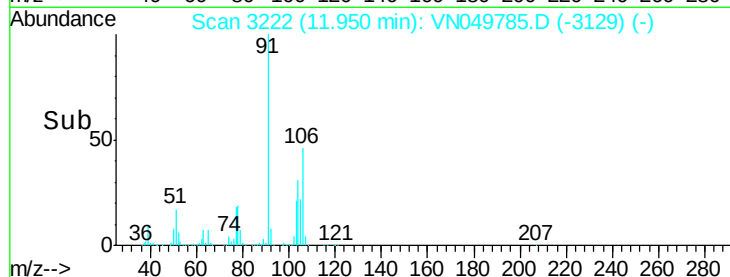
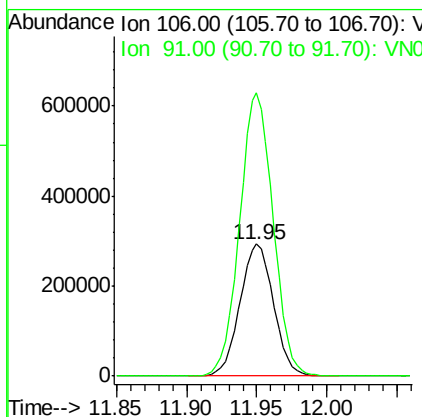
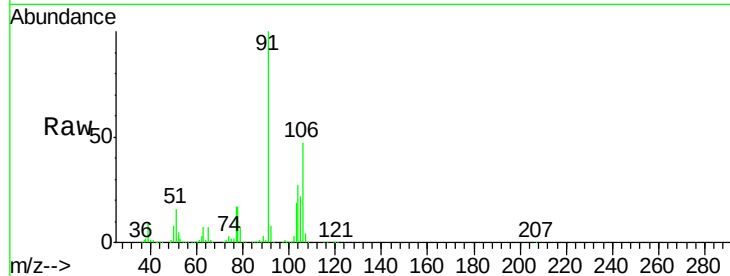
#69
o-Xylene
Concen: 20.01 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampled :
VN0712WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	213.2	108.7	326.1	

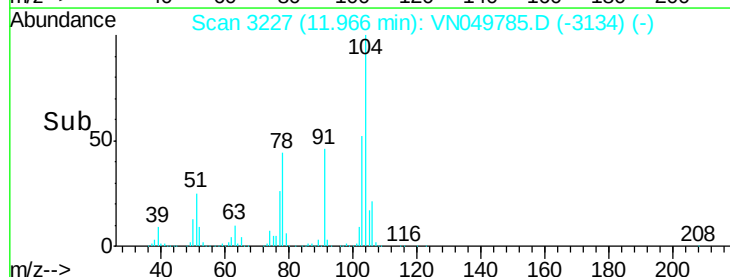
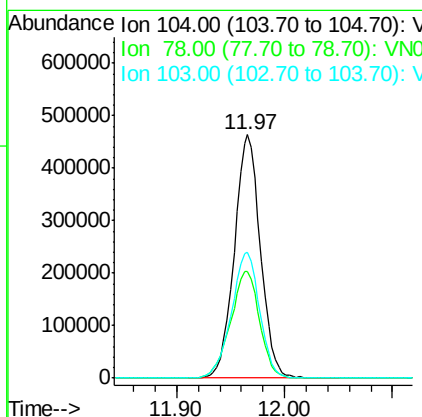
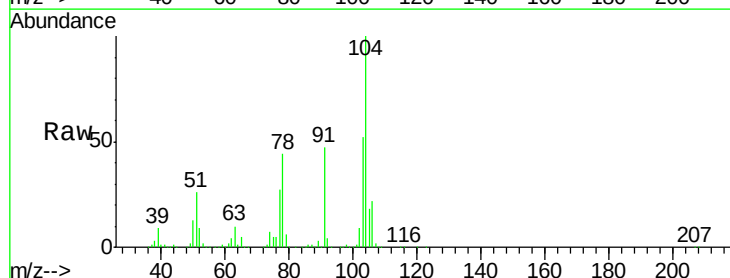
Manual Integrations
APPROVED

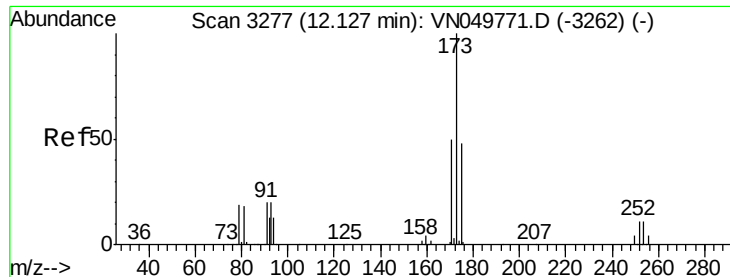
MMDadoda
7/13/2018 1:35:39 PM



#70
Styrene
Concen: 20.03 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	49.0	39.2	58.8	
103	55.9	44.6	67.0	





#71

Bromoform

Concen: 19.52 ug/l

RT: 12.13 min Scan# 3278

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampleId :

VN0712WBSD01

Tot Ion:173 Resp: 204660

Ion Ratio Lower Upper

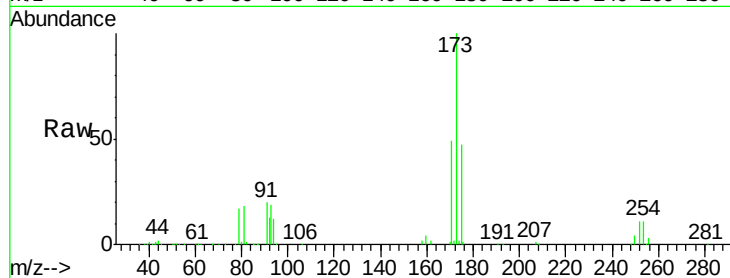
173 100

175 47.7 24.6 73.8

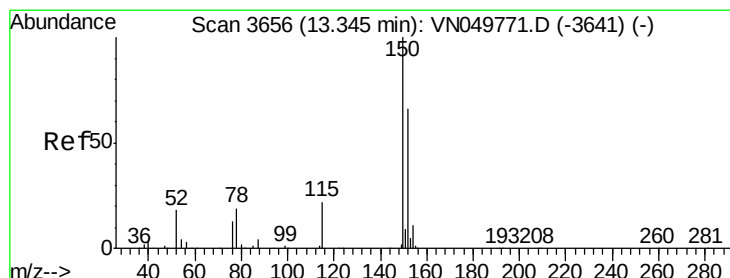
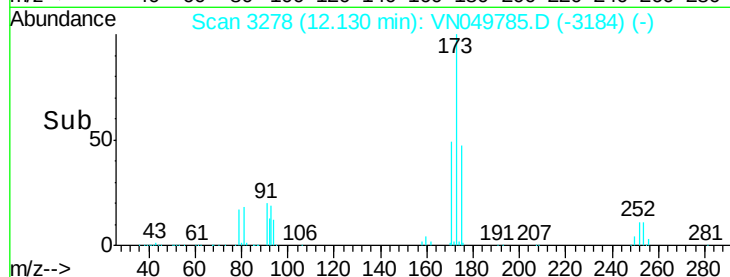
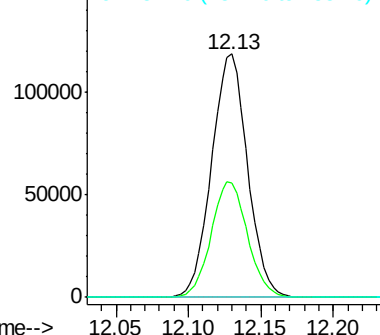
254 0.2 0.2 0.2

Manual Integrations
APPROVED

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

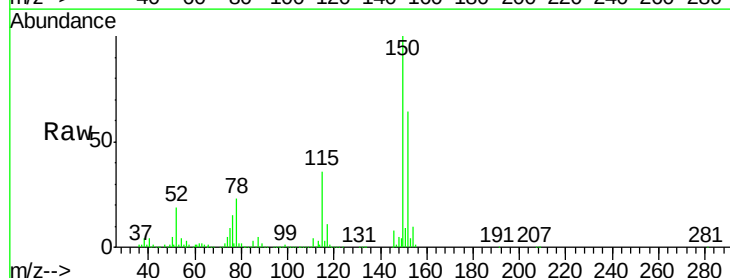
Tgt Ion:152 Resp: 795164

Ion Ratio Lower Upper

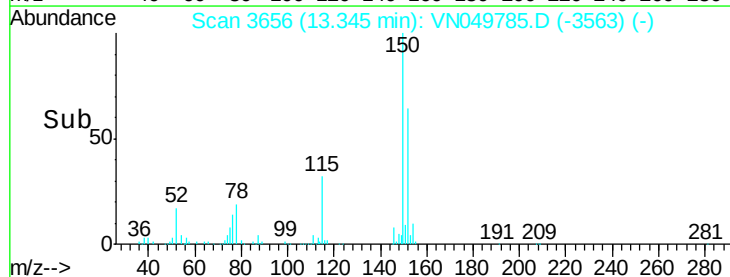
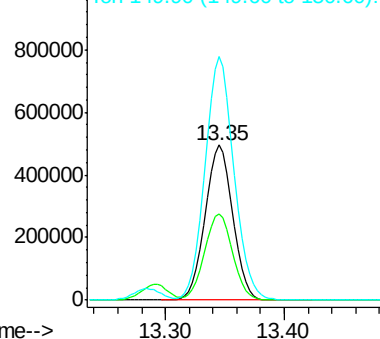
152 100

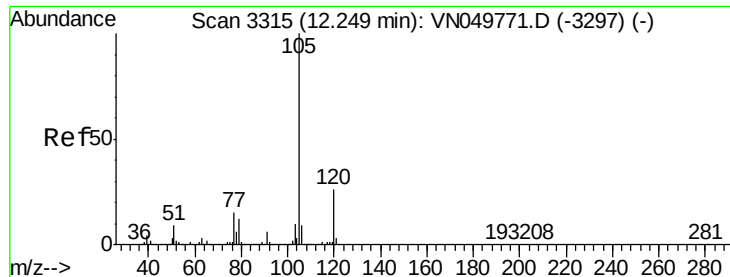
115 56.4 28.1 84.2

150 163.9 0.0 347.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.67 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampleId :

VN0712WBSD01

Tot Ion:105 Resp: 1299754

Ion Ratio Lower Upper

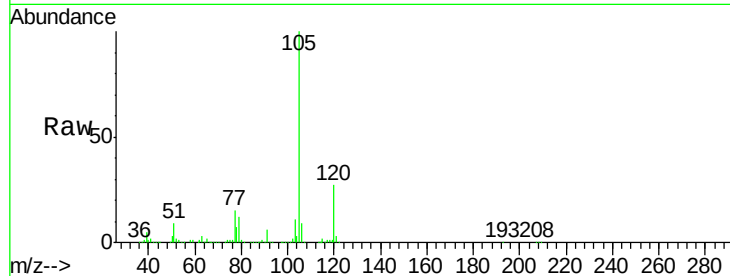
105 100

120 26.9 13.3 39.8

Manual Integrations
APPROVED

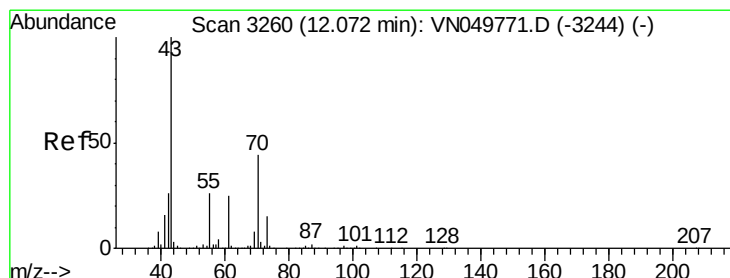
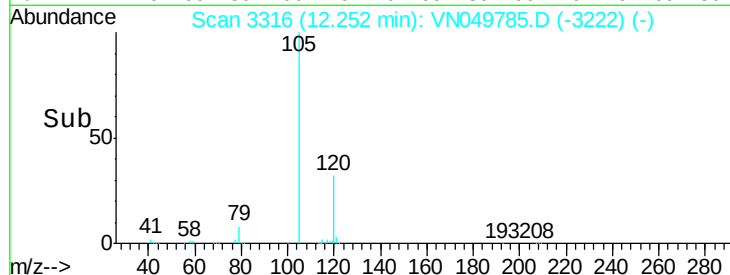
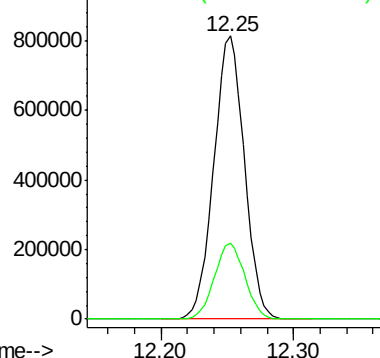
MMDadoda

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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: 19.11 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Tgt Ion: 43 Resp: 328448

Ion Ratio Lower Upper

43 100

70 42.8 34.8 52.2

55 25.9 20.9 31.3

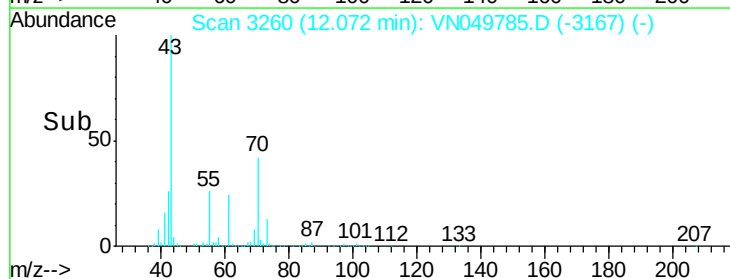
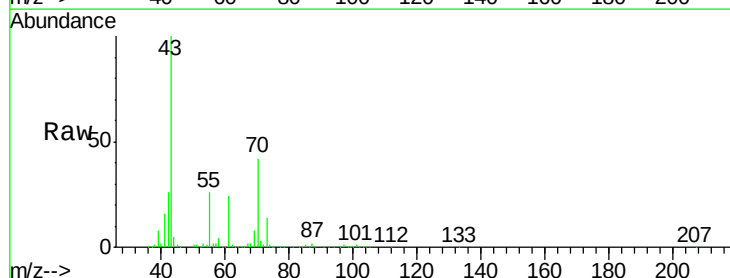
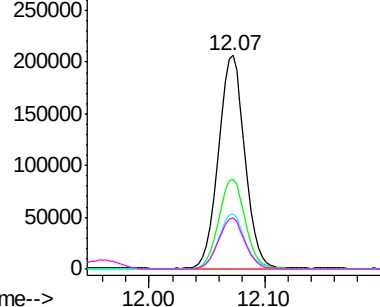
61 23.9 19.9 29.9

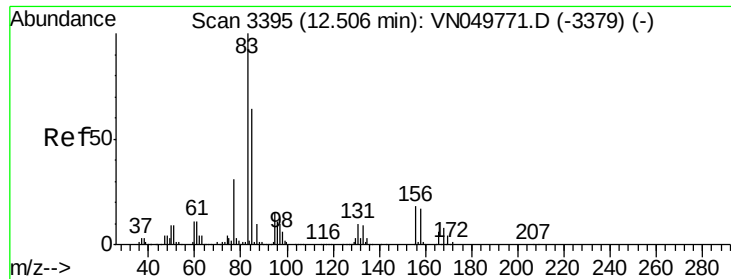
Abundance Ion 43.00 (42.70 to 43.70): V

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: 20.45 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampled :

VN0712WBSD01

Tot Ion: 83 Resp: 329085

Ion Ratio Lower Upper

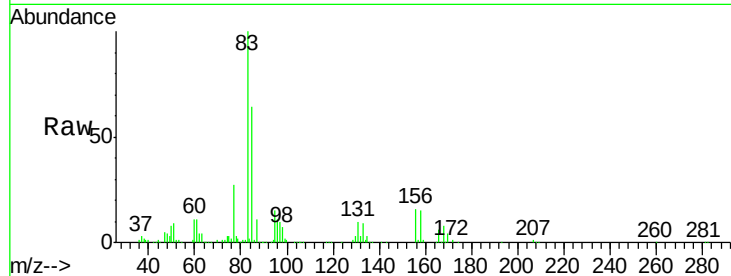
83 100

131 10.3 5.2 15.6

85 64.1 32.5 97.4

Manual Integrations
APPROVED

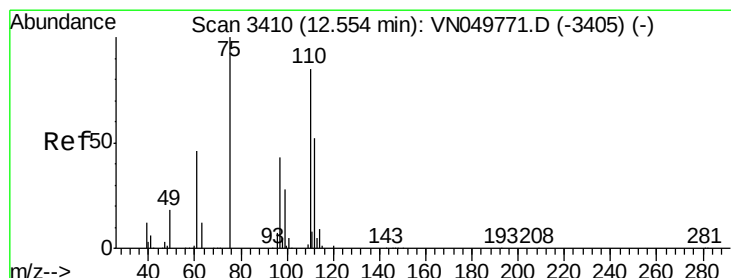
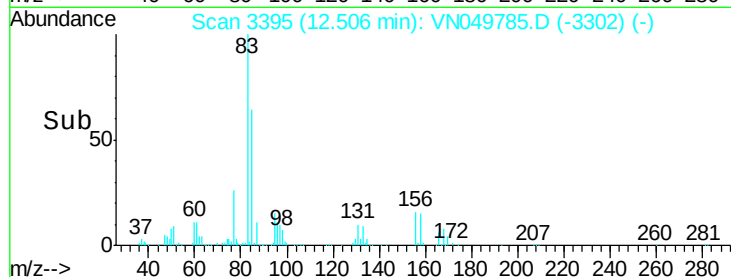
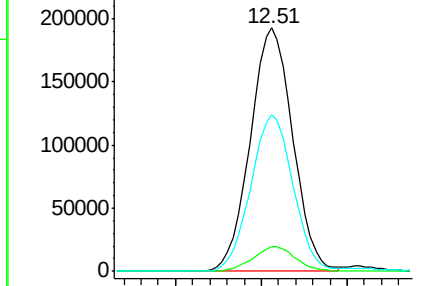
MMDadoda
7/13/2018 1:35:39 PM



Abundance Ion 82.90 (82.60 to 83.60): VN049771.D (-3379) (-)

Ion 130.80 (130.50 to 131.50): VN049771.D (-3379) (-)

Ion 84.90 (84.60 to 85.60): VN049771.D (-3379) (-)



#76

1,2,3-Trichloropropane

Concen: 19.51 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN049785.D

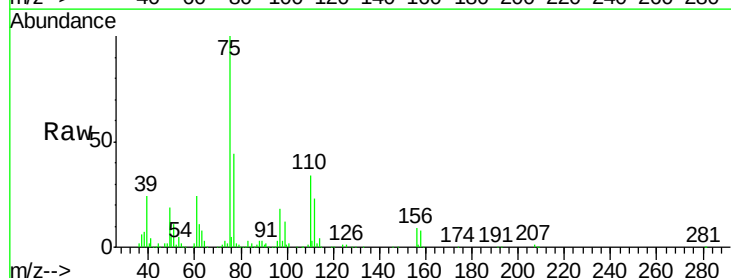
Acq: 12 Jul 2018 22:19

Tgt Ion: 75 Resp: 275560

Ion Ratio Lower Upper

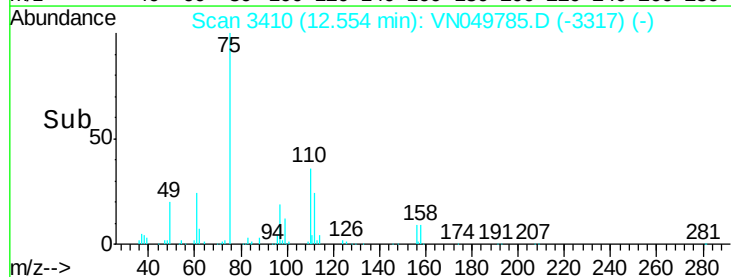
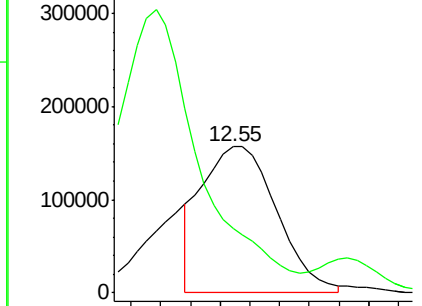
75 100

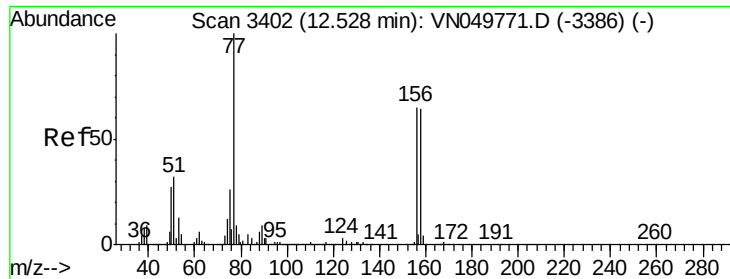
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN049771.D (-3405) (-)

Ion 77.00 (76.70 to 77.70): VN049771.D (-3405) (-)





#77

Bromobenzene

Concen: 19.03 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

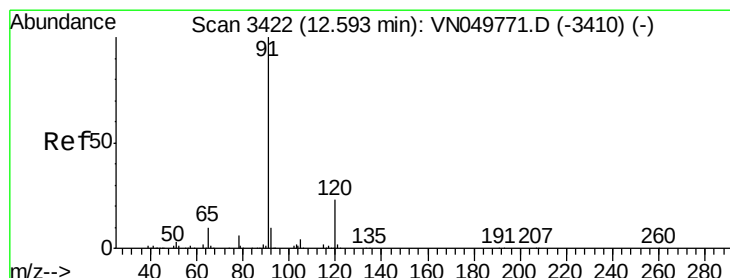
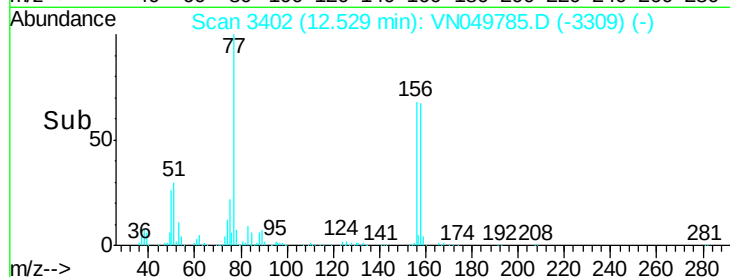
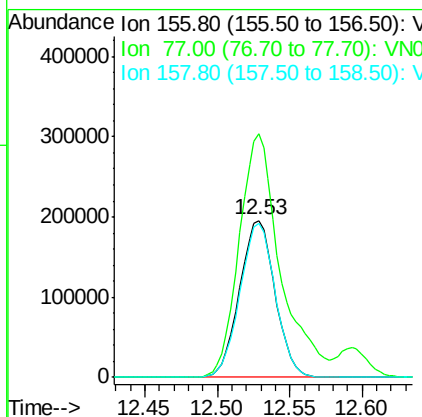
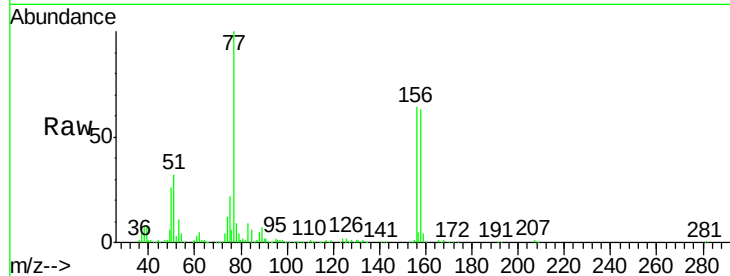
ClientSampleId :

VN0712WBSD01

Tot Ion:	156	Resp:	333661
Ion Ratio	Lower	Upper	
156	100		
77	179.8	90.2	270.6
158	97.4	49.1	147.3

Manual Integrations
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7/13/2018 1:35:39 PM



#78

n-propylbenzene

Concen: 19.67 ug/l

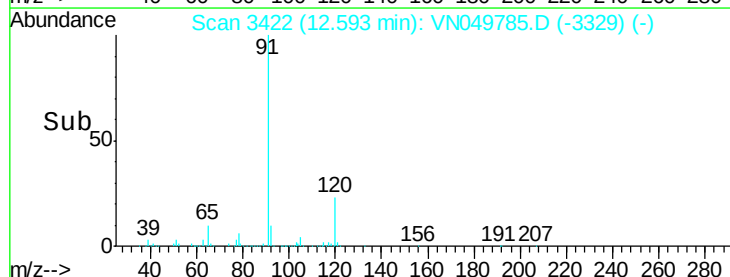
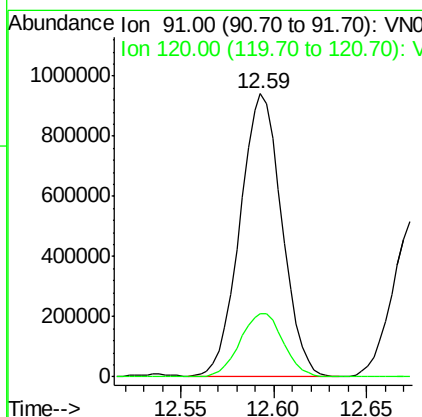
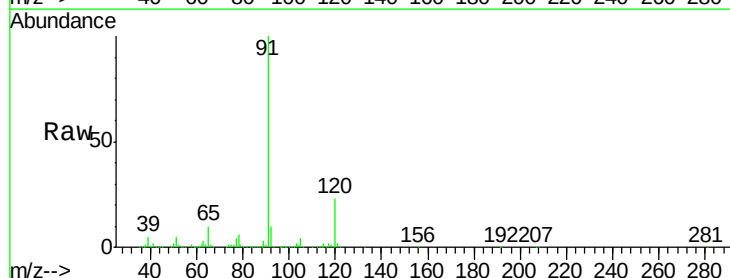
RT: 12.59 min Scan# 3422

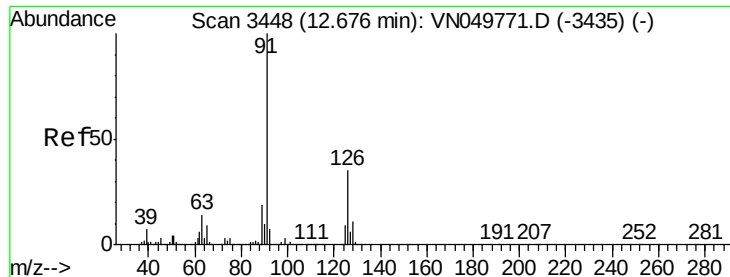
Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Tgt Ion:	91	Resp:	1465896
Ion Ratio	Lower	Upper	
91	100		
120	23.3	11.5	34.4





#79

2-Chlorotoluene

Concen: 19.54 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

ClientSampled :

VN0712WBSD01

Tot Ion: 91 Resp: 890900

Ion Ratio Lower Upper

91 100

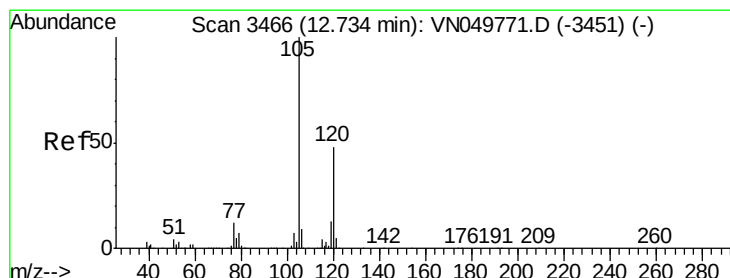
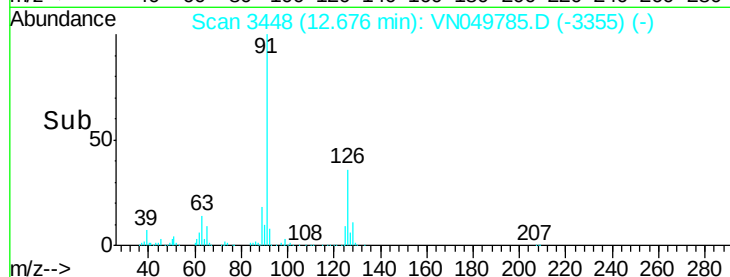
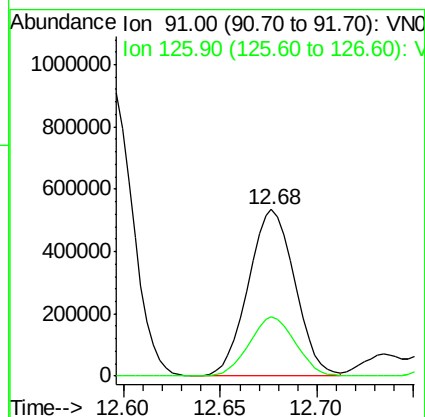
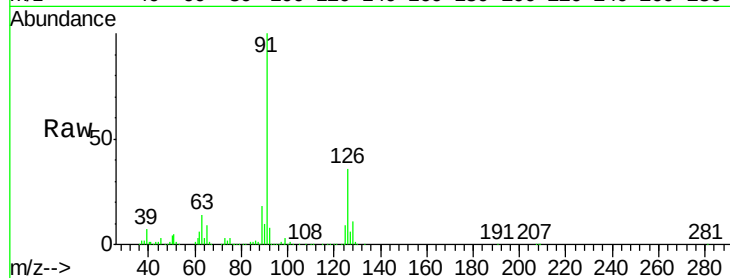
126 35.7 17.5 52.5

Manual Integrations

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7/13/2018 1:35:39 PM



#80

1,3,5-Trimethylbenzene

Concen: 20.10 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049785.D

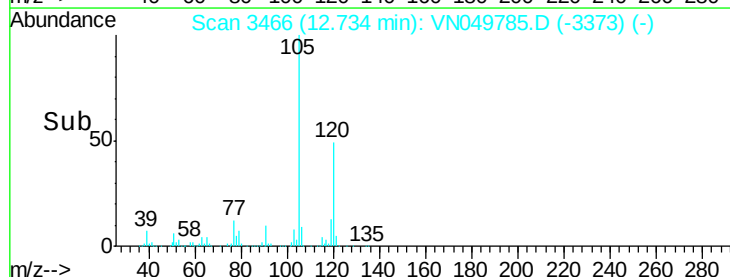
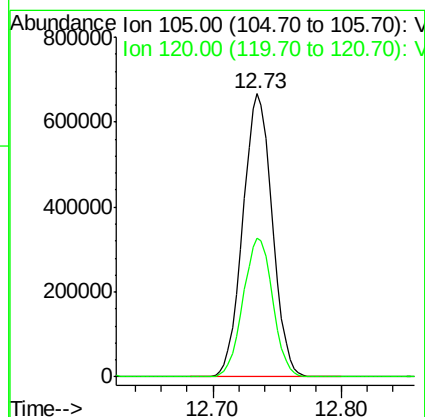
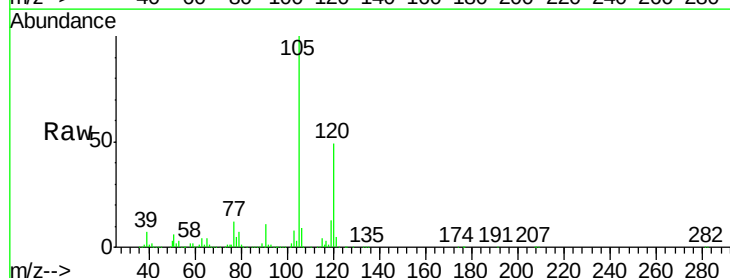
Acq: 12 Jul 2018 22:19

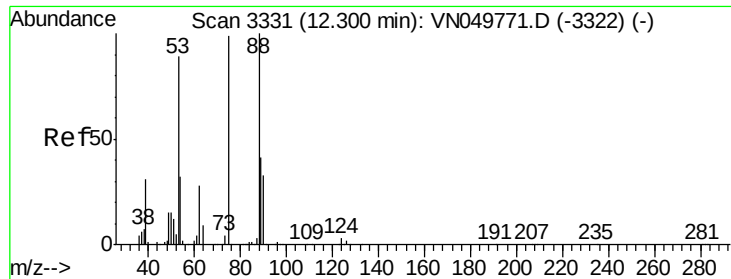
Tgt Ion: 105 Resp: 1055460

Ion Ratio Lower Upper

105 100

120 49.2 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 17.17 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

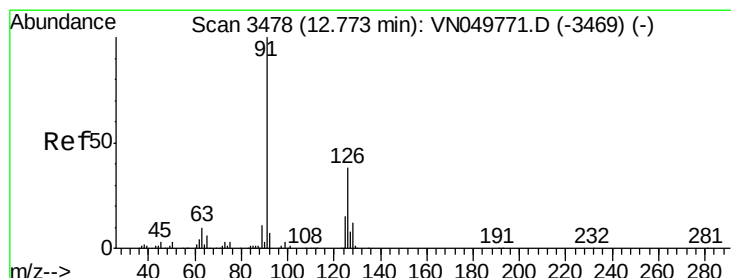
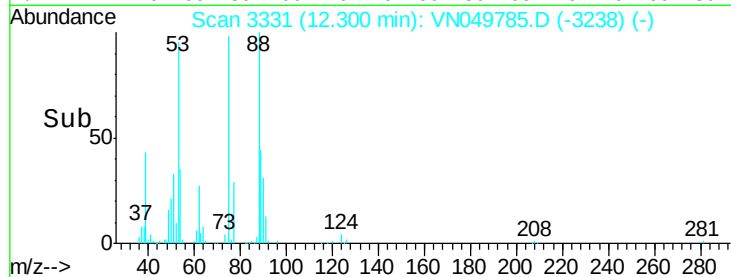
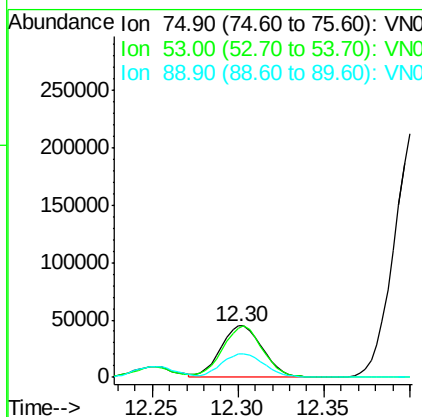
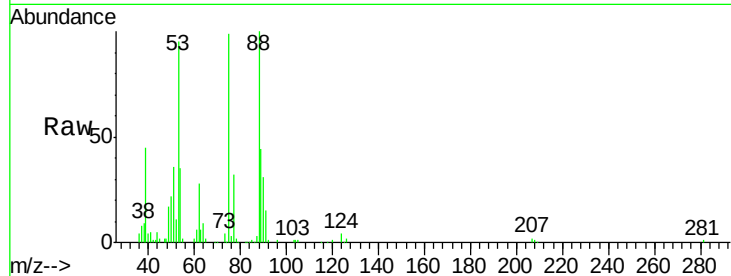
ClientSampleId :

VN0712WBSD01

Tot Ion:	75	Resp:	75120
Ion	Ratio	Lower	Upper
75	100		
53	98.3	73.9	110.9
89	47.4	35.9	53.9

Manual Integrations
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7/13/2018 1:35:39 PM



#82

4-Chlorotoluene

Concen: 19.58 ug/l

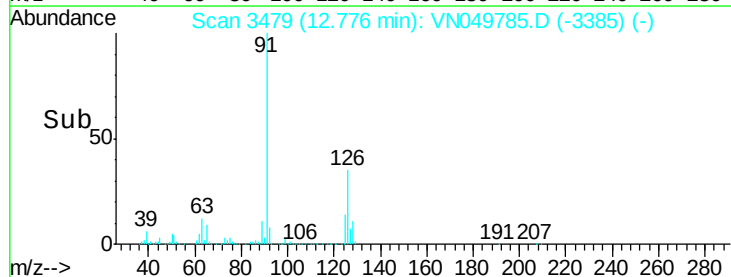
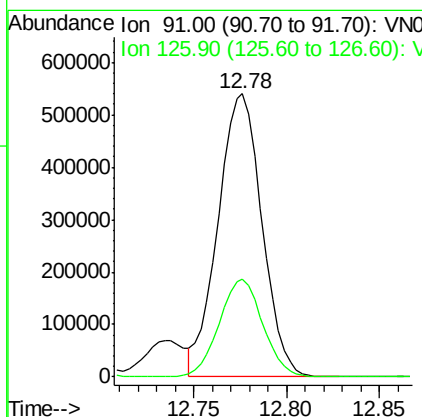
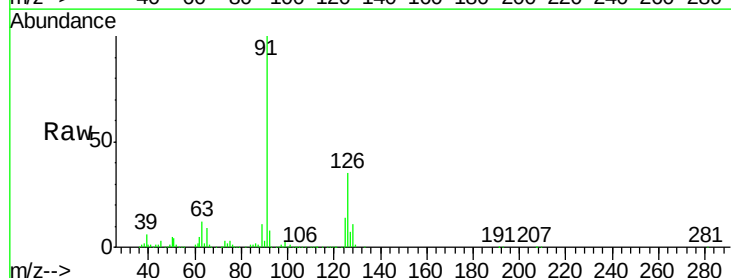
RT: 12.78 min Scan# 3479

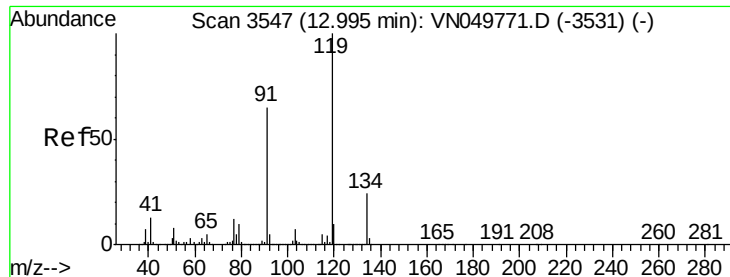
Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Tgt Ion:	91	Resp:	885730
Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.2	51.6





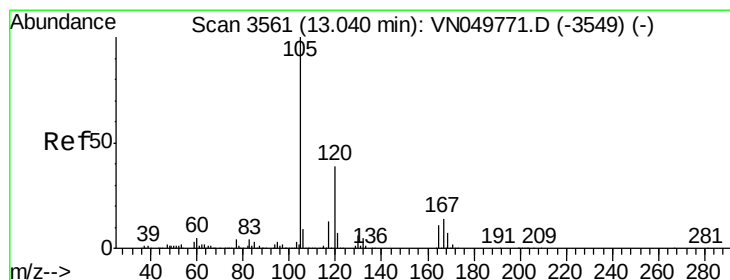
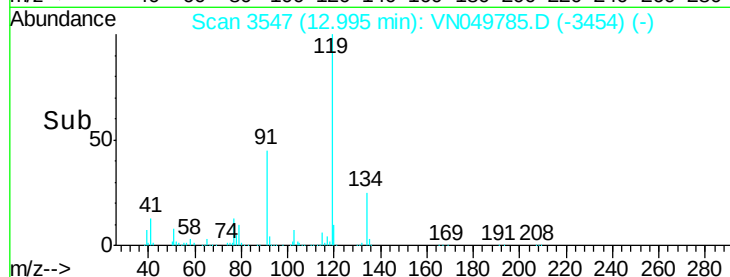
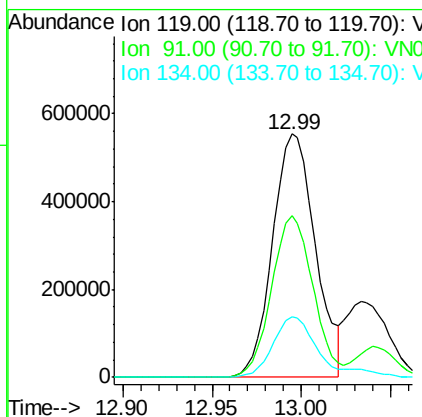
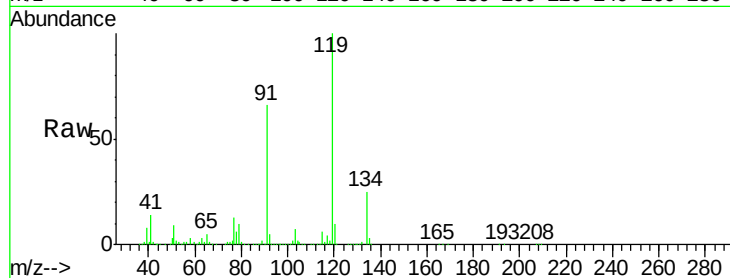
#83
 tert-Butylbenzene
 Concen: 19.73 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Instrument :
 MSVOA_N
 ClientSampled :
 VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.1	32.0	96.2
134	24.2	12.8	38.4

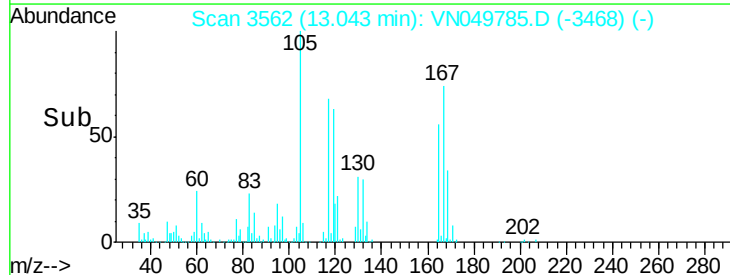
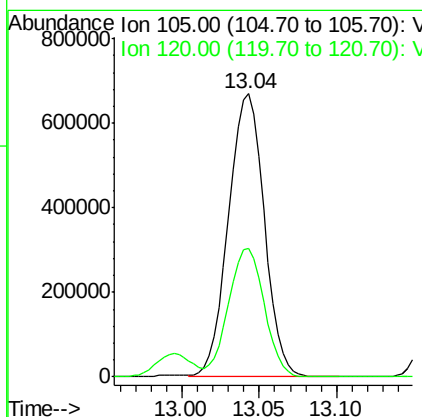
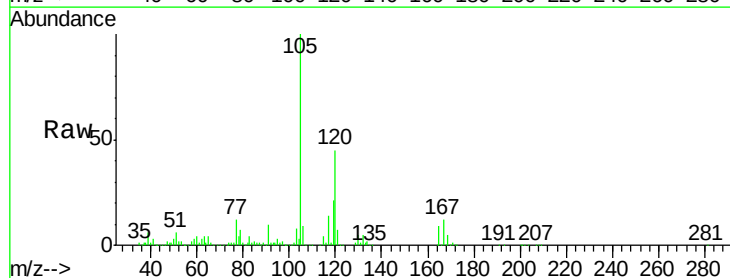
Manual Integrations
 APPROVED

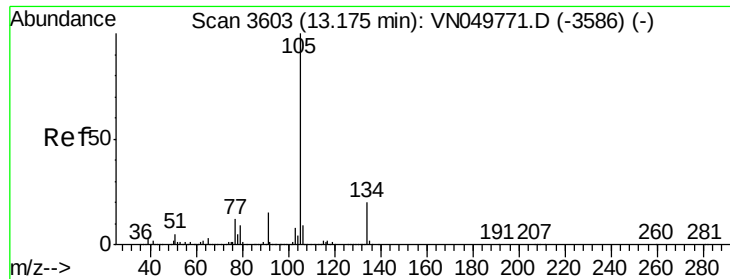
MMDadoda
 7/13/2018 1:35:39 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 20.38 ug/l
 RT: 13.04 min Scan# 3562
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.7	68.1





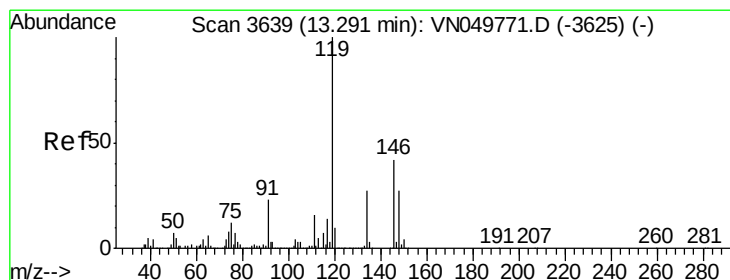
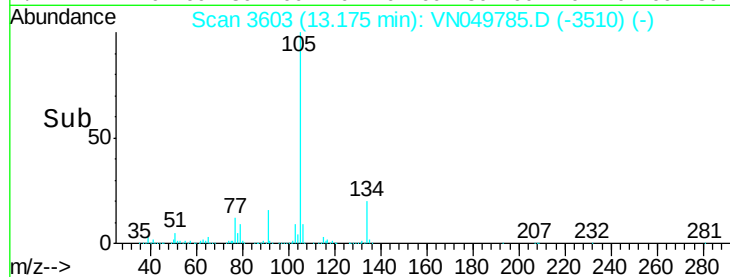
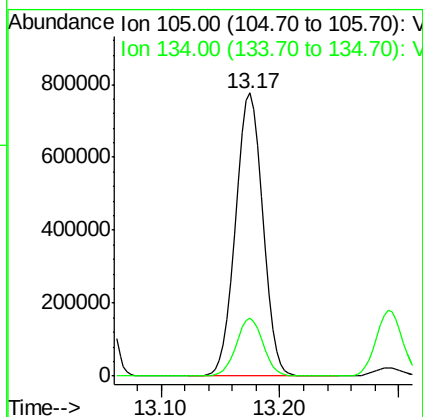
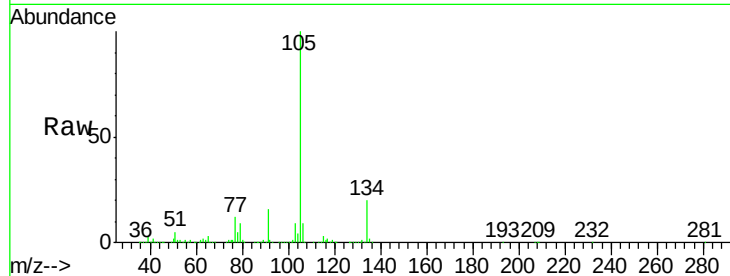
#85
 sec-Butylbenzene
 Concen: 19.98 ug/l
 RT: 13.17 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBSD01

Tot Ion:105 Resp: 1230546
 Ion Ratio Lower Upper
 105 100
 134 20.1 10.1 30.1

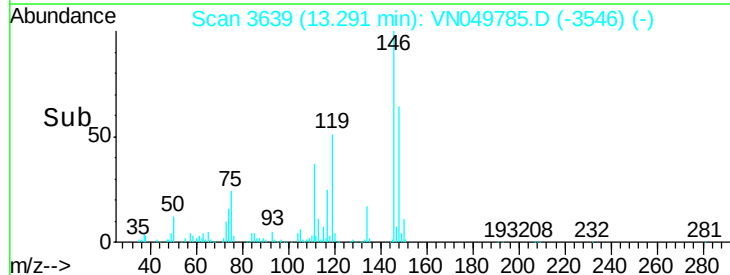
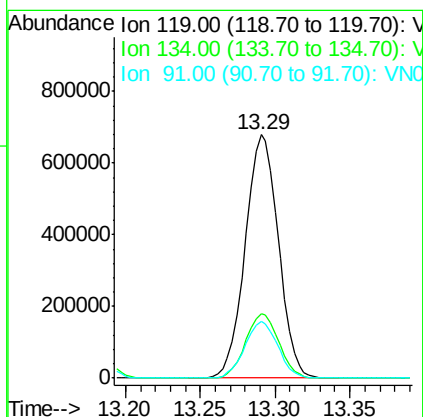
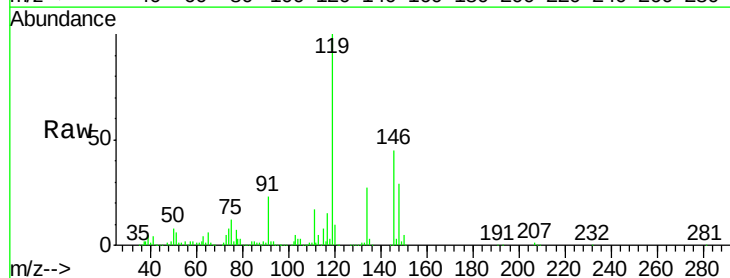
Manual Integrations
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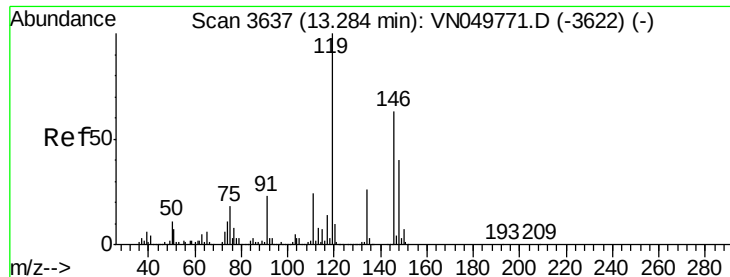
MMDadoda
 7/13/2018 1:35:39 PM



#86
 p-Isopropyltoluene
 Concen: 20.05 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Tgt Ion:119 Resp: 1044761
 Ion Ratio Lower Upper
 119 100
 134 26.7 13.3 39.9
 91 23.1 11.4 34.1





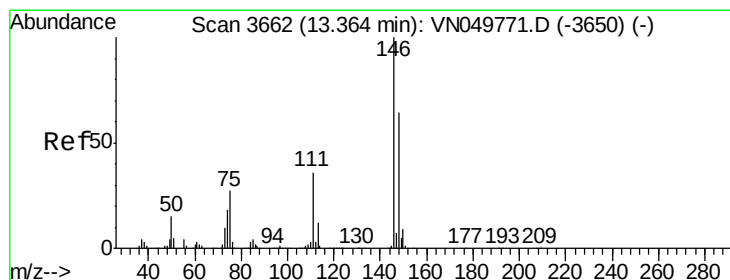
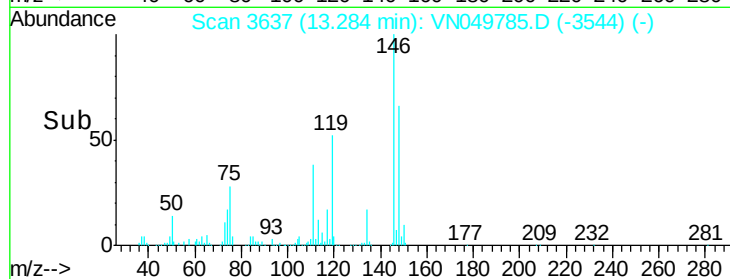
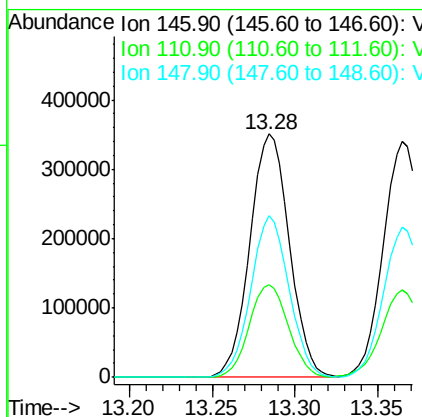
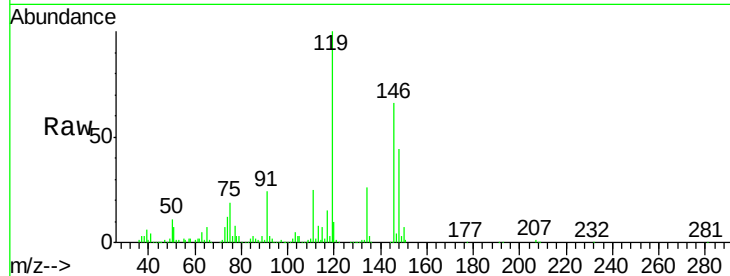
#87
 1,3-Dichlorobenzene
 Concen: 19.21 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.0	57.0
148	64.4	32.5	97.5

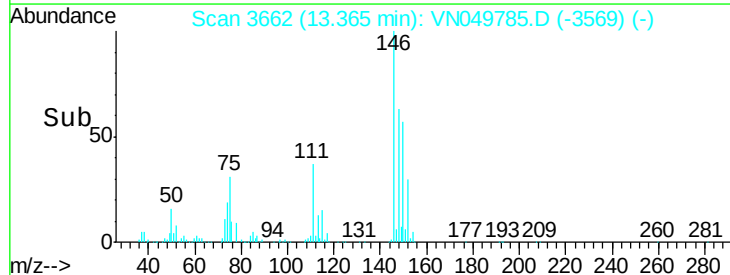
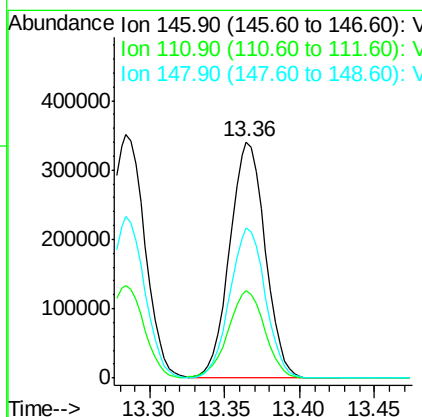
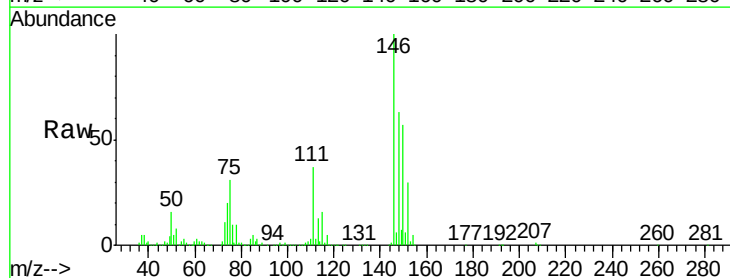
Manual Integrations
 APPROVED

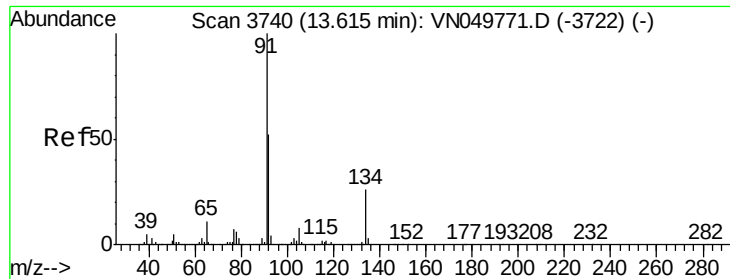
MMDadoda
 7/13/2018 1:35:39 PM



#88
 1,4-Dichlorobenzene
 Concen: 18.98 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.9	56.5
148	63.9	32.1	96.3





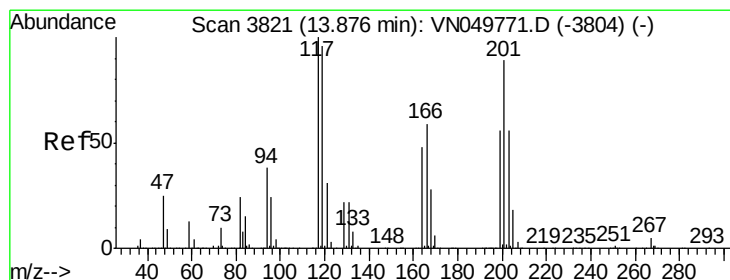
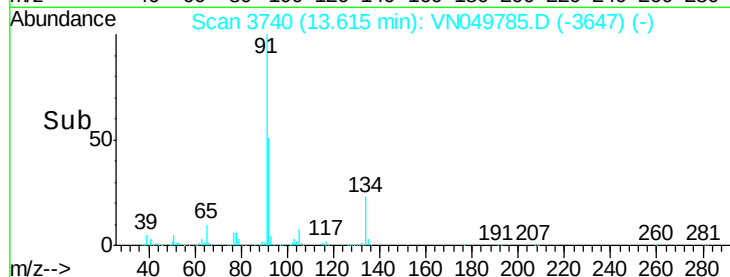
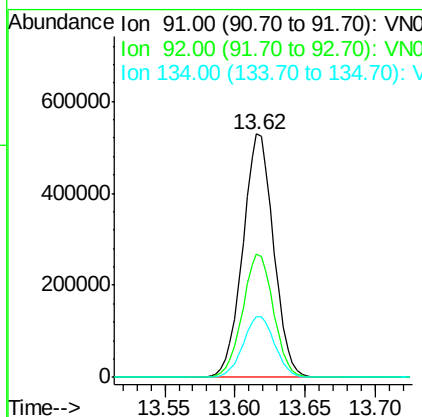
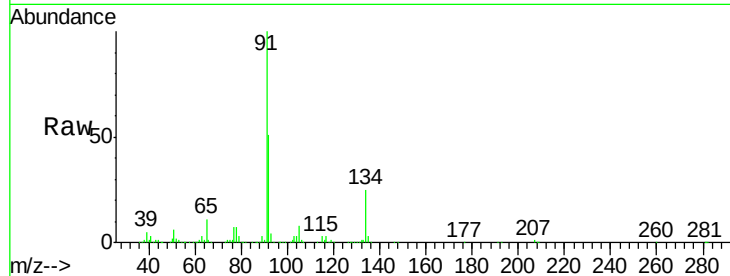
#89
n-Butylbenzene
Concen: 18.82 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Instrument :
MSVOA_N
ClientSampled :
VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.9	25.8	77.3
134	25.5	13.0	38.9

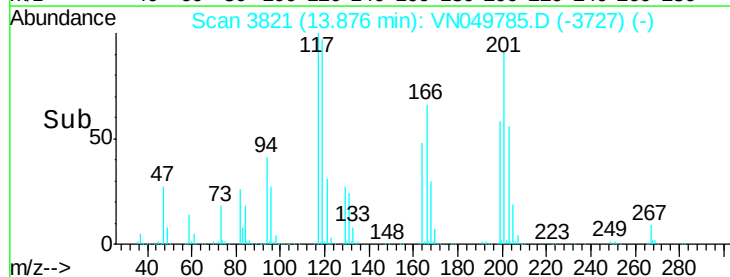
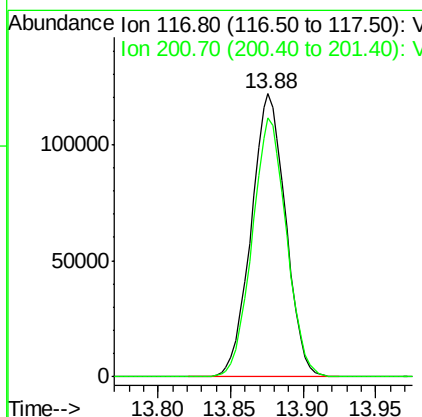
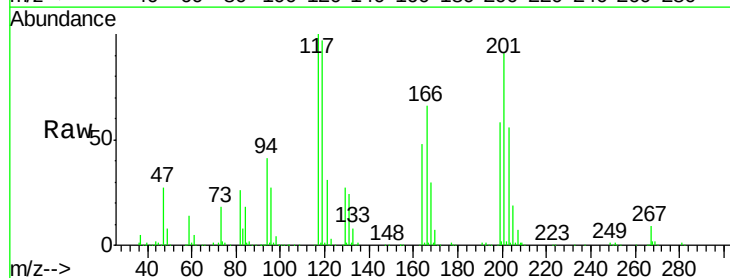
Manual Integrations
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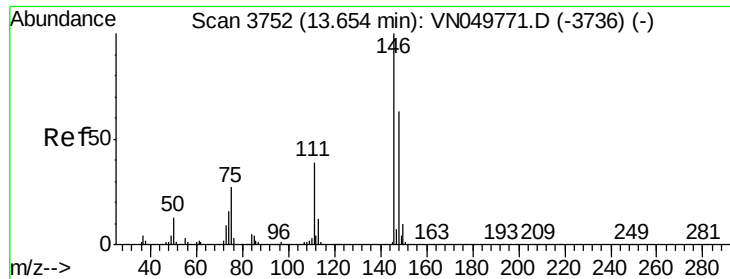
MMDadoda
7/13/2018 1:35:39 PM



#90
Hexachloroethane
Concen: 19.46 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN049785.D
Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.9	45.3	135.8





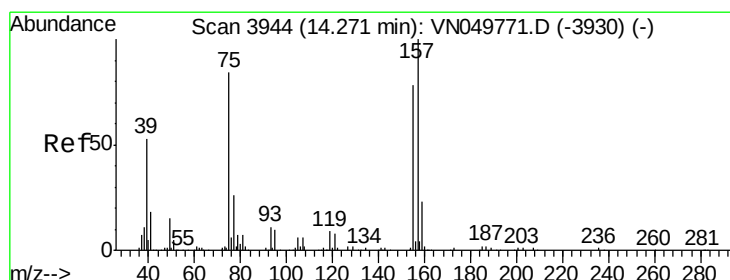
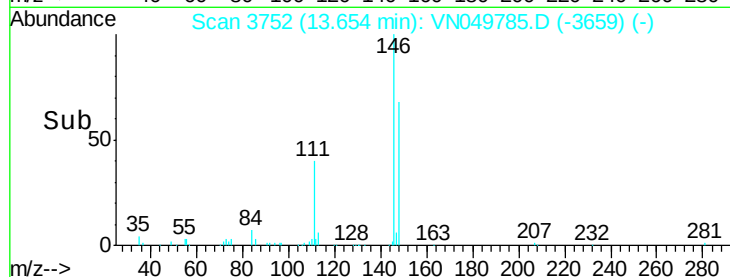
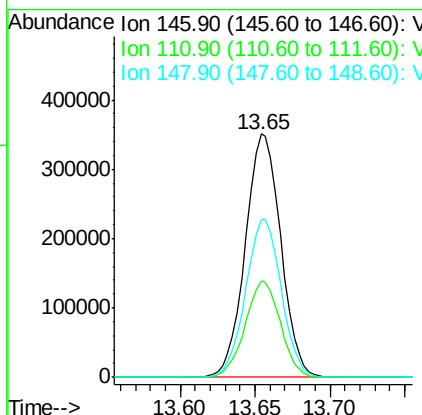
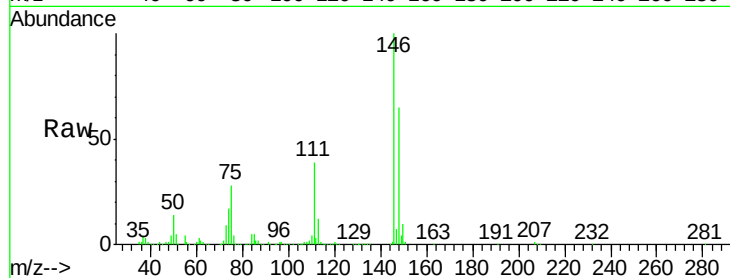
#91
 1,2-Dichlorobenzene
 Concen: 19.54 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.7	59.1
148	65.1	32.0	96.2

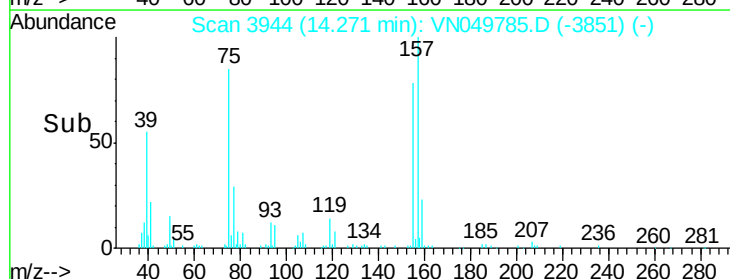
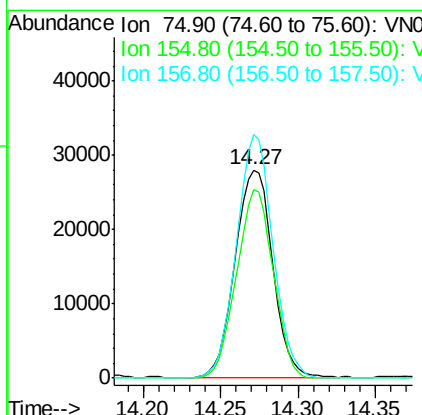
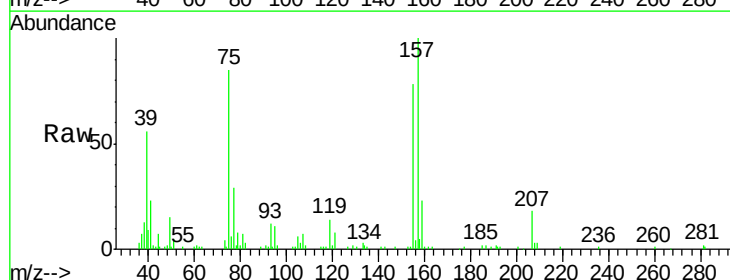
Manual Integrations
 APPROVED

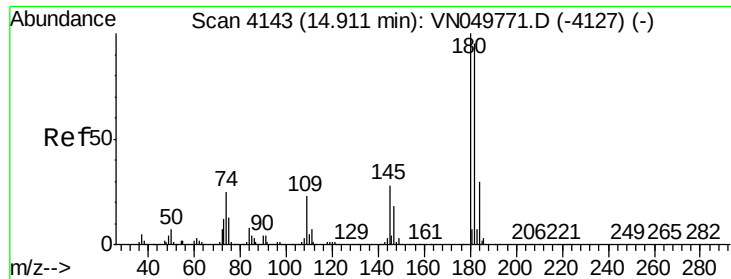
MMDadoda
 7/13/2018 1:35:39 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.17 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.5	45.7	137.1
157	112.6	56.9	170.7





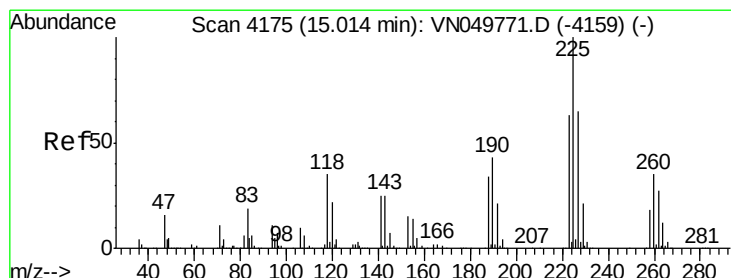
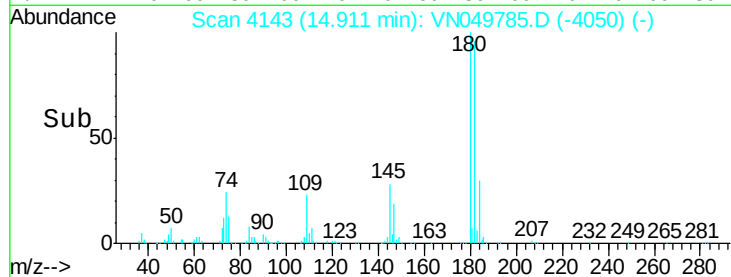
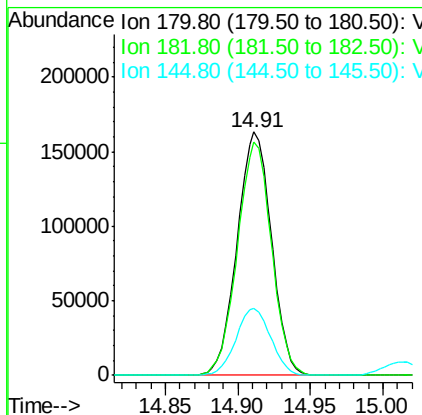
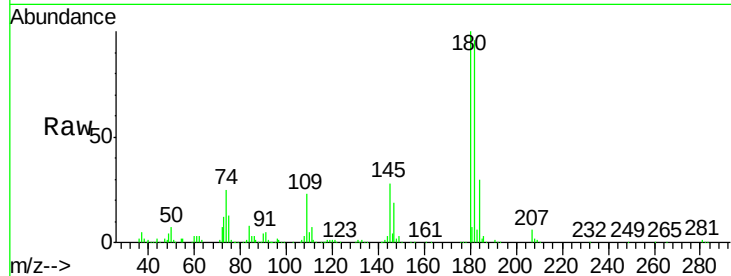
#93
 1,2,4-Trichlorobenzene
 Concen: 18.41 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0712WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	268355		
182	95.3	47.3	141.9	
145	28.0	14.4	43.0	

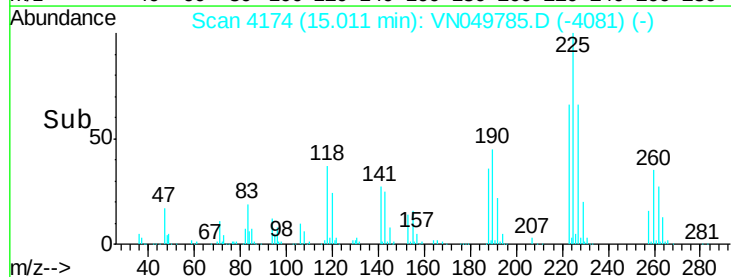
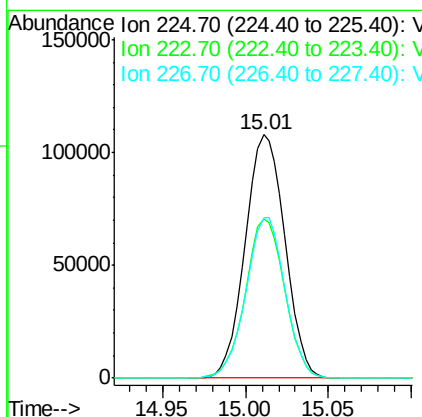
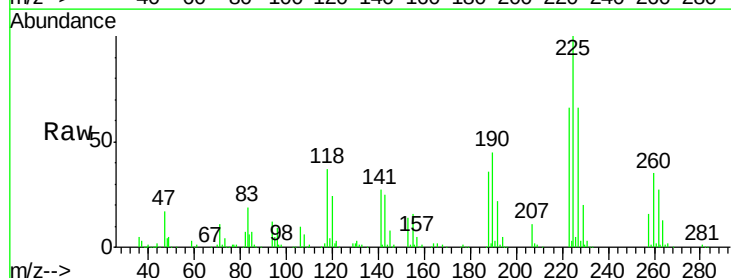
Manual Integrations
 APPROVED

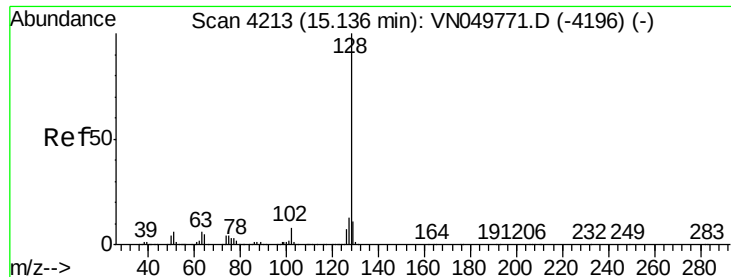
MMDadoda
 7/13/2018 1:35:39 PM



#94
 Hexachlorobutadiene
 Concen: 19.20 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049785.D
 Acq: 12 Jul 2018 22:19

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	180318		
223	64.5	30.9	92.7	
227	64.8	31.8	95.4	





#95

Naphthalene

Concen: 17.89 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Instrument :

MSVOA_N

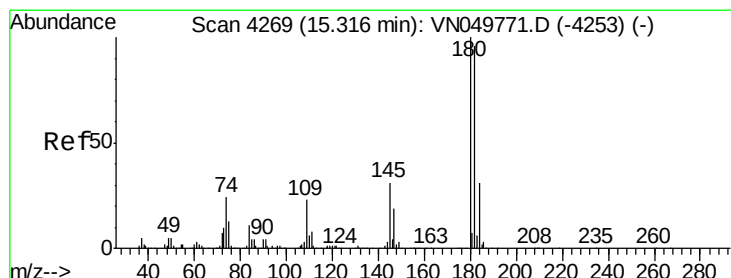
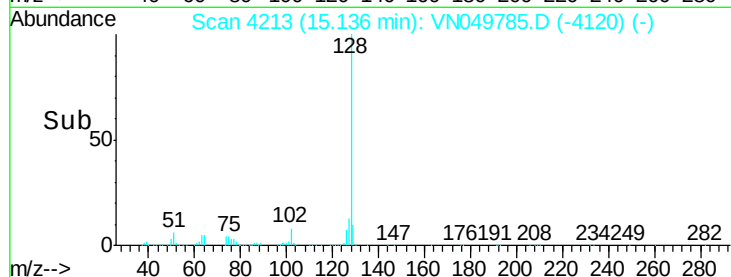
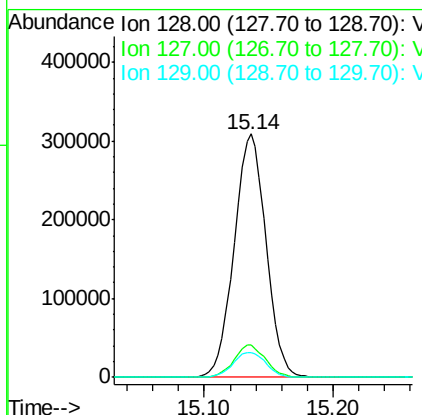
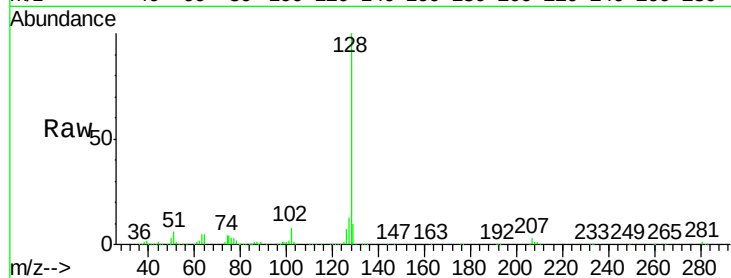
ClientSampleId :

VN0712WBSD01

Tot Ion:	128	Resp:	530055
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.4	15.6
129	10.7	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
7/13/2018 1:35:39 PM



#96

1,2,3-Trichlorobenzene

Concen: 19.20 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN049785.D

Acq: 12 Jul 2018 22:19

Tgt Ion:	180	Resp:	276266
Ion Ratio	Lower	Upper	
180	100		
182	94.8	47.4	142.2
145	30.7	15.2	45.6

