

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081519\
 Data File : VN057291.D
 Acq On : 14 Aug 2019 17:03
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMdadoda
 8/19/2019 1:53:15 AM

Quant Time: Aug 15 08:22:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 19:33:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	873586	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1276787	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	1144523	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	402471	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	196946	22.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	44.74%	
35) Dibromofluoromethane	7.58	113	169605	20.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.98%	
50) Toluene-d8	10.09	98	645424	21.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.80%	
62) 4-Bromofluorobenzene	12.40	95	205613	20.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.48%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	152047	20.770	ug/l	97
3) Chloromethane	2.05	50	171411	20.634	ug/l	99
4) Vinyl Chloride	2.18	62	165543	20.565	ug/l	100
5) Bromomethane	2.54	94	127040m	22.399	ug/l	
6) Chloroethane	2.69	64	113568	21.768	ug/l	94
7) Trichlorofluoromethane	3.02	101	261674	20.576	ug/l	99
8) Diethyl Ether	3.40	74	99888	21.540	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	156282	20.482	ug/l	99
10) Methyl Iodide	3.95	142	246633	20.846	ug/l	99
11) Tert butyl alcohol	4.76	59	134520	111.260	ug/l	100
12) 1,1-Dichloroethene	3.73	96	153245	20.193	ug/l	98
13) Acrolein	3.60	56	76562	92.008	ug/l	97
14) Allyl chloride	4.32	41	245205	21.189	ug/l	99
15) Acrylonitrile	4.97	53	383996	113.886	ug/l	99
16) Acetone	3.81	43	335291	110.897	ug/l	99
17) Carbon Disulfide	4.05	76	400272	19.385	ug/l	99
18) Methyl Acetate	4.31	43	193885	18.682	ug/l	100
19) Methyl tert-butyl Ether	5.03	73	480482	21.075	ug/l	97
20) Methylene Chloride	4.54	84	179132	20.271	ug/l	97
21) trans-1,2-Dichloroethene	5.03	96	161623	20.017	ug/l	97
22) Diisopropyl ether	5.94	45	495025	21.683	ug/l	97
23) Vinyl Acetate	5.88	43	1988220	109.784	ug/l	99
24) 1,1-Dichloroethane	5.84	63	301625	21.087	ug/l	99
25) 2-Butanone	6.82	43	492299	113.425	ug/l	98
26) 2,2-Dichloropropane	6.81	77	248997	21.333	ug/l	99
27) cis-1,2-Dichloroethene	6.82	96	193881	20.781	ug/l	100
28) Bromochloromethane	7.18	49	141223	22.168	ug/l #	99
29) Tetrahydrofuran	7.20	42	312203	112.697	ug/l	98
30) Chloroform	7.36	83	307866	20.566	ug/l	97
31) Cyclohexane	7.65	56	261626	21.041	ug/l	95
32) 1,1,1-Trichloroethane	7.56	97	269490	21.291	ug/l	98
36) 1,1-Dichloropropene	7.79	75	226491	20.438	ug/l	98
37) Ethyl Acetate	6.92	43	201535	22.213	ug/l	99
38) Carbon Tetrachloride	7.76	117	232993	19.768	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	268613	20.504	ug/l	99
40) Benzene	8.03	78	702537	20.741	ug/l	99
41) Methacrylonitrile	7.17	41	98209m	25.913	ug/l	
42) 1,2-Dichloroethane	8.12	62	234206	21.525	ug/l	99
43) Isopropyl Acetate	8.16	43	355643	23.586	ug/l	100
44) Trichloroethene	8.83	130	194623	19.939	ug/l	98
45) 1,2-Dichloropropane	9.11	63	185311	21.560	ug/l	98
46) Dibromomethane	9.20	93	119806	20.727	ug/l	99
47) Bromodichloromethane	9.40	83	237073	21.231	ug/l	98
48) Methyl methacrylate	9.19	41	152016	21.984	ug/l	98
49) 1,4-Dioxane	9.19	88	65163	419.564	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	987139	112.412	ug/l	100
52) Toluene	10.15	92	440839	20.978	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	255143	21.366	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	287532	21.372	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	172663	20.933	ug/l	99
56) Ethyl methacrylate	10.42	69	251888	21.636	ug/l	99
57) 1,3-Dichloropropane	10.70	76	289725	21.274	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	305615	104.382	ug/l	100
59) 2-Hexanone	10.75	43	706852	113.260	ug/l	100
60) Dibromochloromethane	10.90	129	192489	20.803	ug/l	99
61) 1,2-Dibromoethane	11.00	107	181830	21.216	ug/l	100
64) Tetrachloroethene	10.63	164	203314	20.207	ug/l	99
65) Chlorobenzene	11.43	112	472630	20.284	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	185121	20.566	ug/l	99
67) Ethyl Benzene	11.51	91	831558	20.850	ug/l	100
68) m/p-Xylenes	11.62	106	616170	41.358	ug/l	100
69) o-Xylene	11.95	106	304980	20.880	ug/l	99
70) Styrene	11.96	104	471976	20.903	ug/l	99
71) Bromoform	12.12	173	140069	20.243	ug/l #	97
73) Isopropylbenzene	12.25	105	822962	22.048	ug/l	100
74) N-amyl acetate	12.07	43	243949	22.398	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	233560	21.799	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	192367m	22.595	ug/l	
77) Bromobenzene	12.53	156	204713	20.149	ug/l	97
78) n-propylbenzene	12.59	91	795894	21.177	ug/l	100
79) 2-Chlorotoluene	12.67	91	516302	21.492	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	661090	21.842	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	72160	23.782	ug/l	98
82) 4-Chlorotoluene	12.77	91	459634	20.902	ug/l	98
83) tert-Butylbenzene	12.99	119	591423	20.934	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	605479	21.390	ug/l	100
85) sec-Butylbenzene	13.17	105	705697	20.853	ug/l	99
86) p-Isopropyltoluene	13.29	119	594761	20.158	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	288449	20.753	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	259799	19.254	ug/l	98
89) n-Butylbenzene	13.62	91	448876	21.648	ug/l	100
90) Hexachloroethane	13.88	117	121823	21.129	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	282391	20.891	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	28528	21.177	ug/l	98

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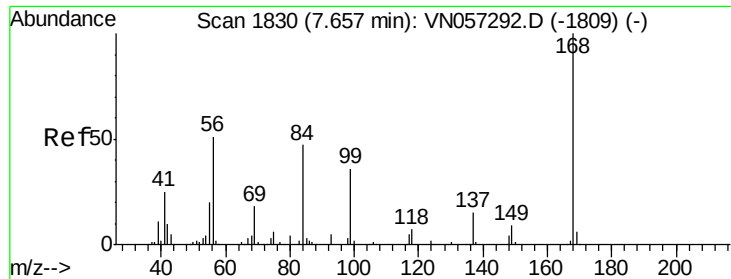
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	69118	14.248	ug/l	98
94) Hexachlorobutadiene	15.01	225	126126	19.394	ug/l	98
95) Naphthalene	15.13	128	136862	14.364	ug/l	98
96) 1,2,3-Trichlorobenzene	15.29	180	69513	14.139	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 873586

Ion Ratio Lower Upper

168 100

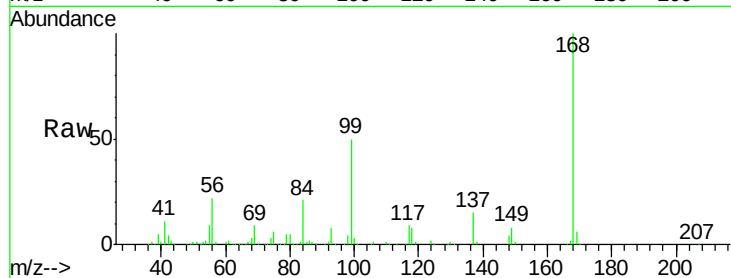
99 49.7 39.4 59.2

Manual Integrations

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8/19/2019 1:53:15 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

400000

300000

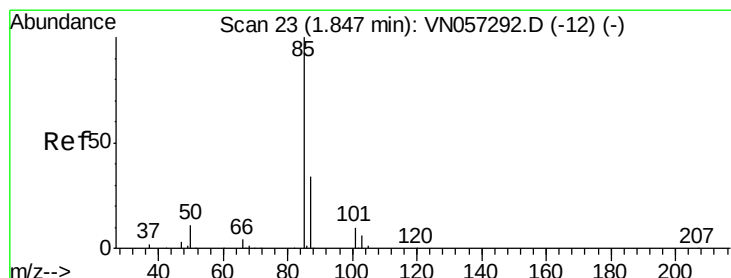
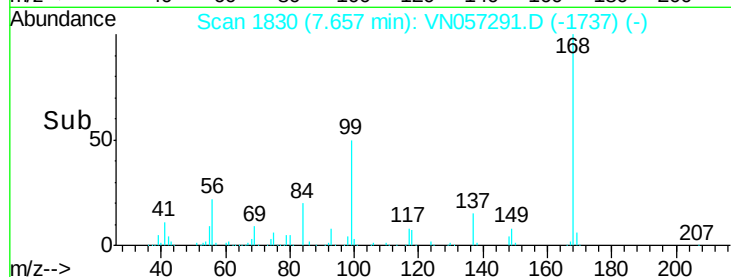
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 20.770 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN057291.D

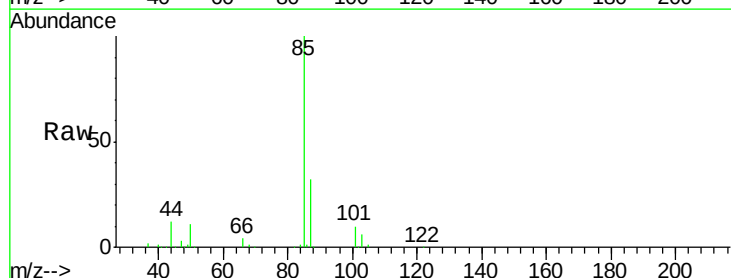
Acq: 14 Aug 2019 17:03

Tgt Ion: 85 Resp: 152047

Ion Ratio Lower Upper

85 100

87 32.3 16.9 50.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

120000

100000

80000

60000

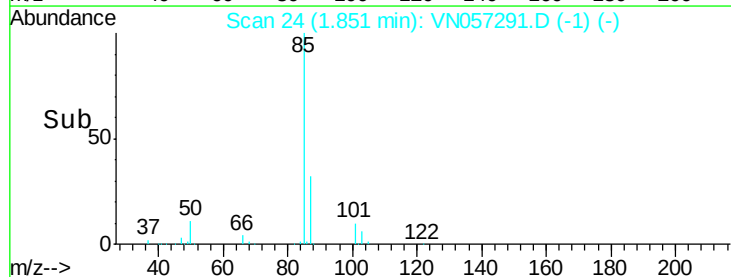
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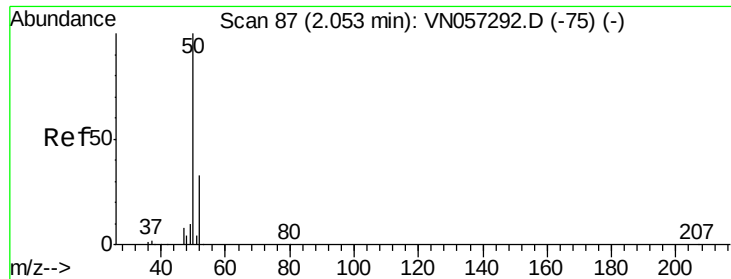
20000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 20.634 ug/l

RT: 2.05 min Scan# 86

Delta R.T. -0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 171411

Ion Ratio Lower Upper

50 100

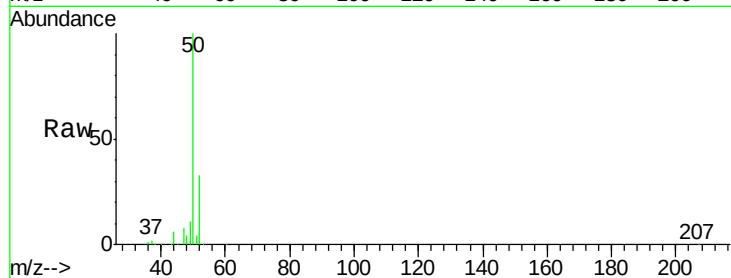
52 32.9 26.8 40.2

Manual Integrations

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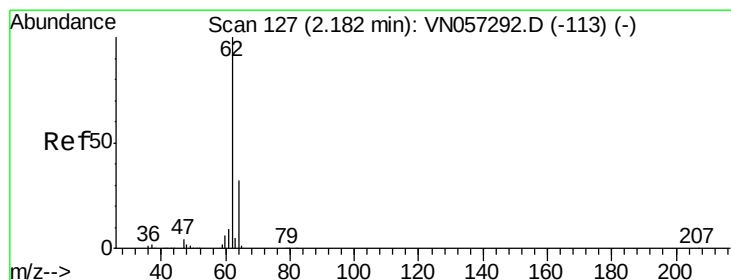
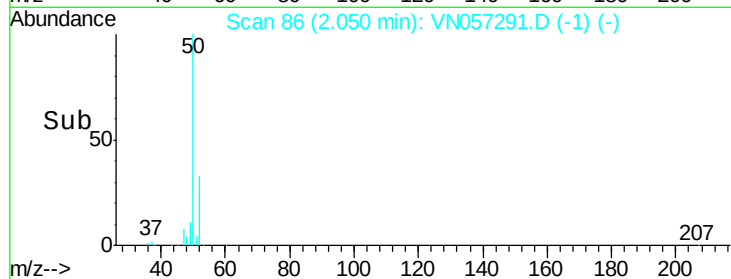
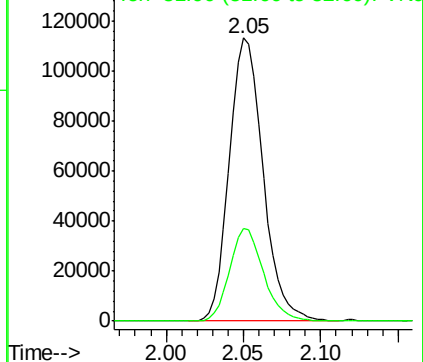
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 20.565 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057291.D

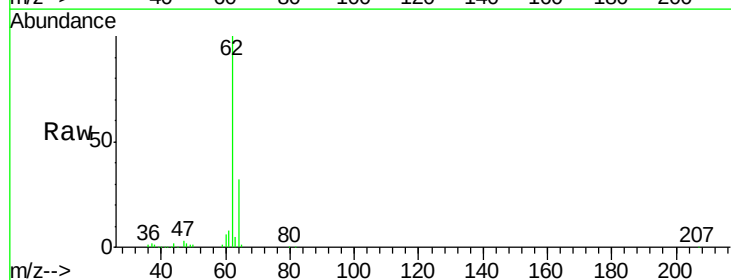
Acq: 14 Aug 2019 17:03

Tgt Ion: 62 Resp: 165543

Ion Ratio Lower Upper

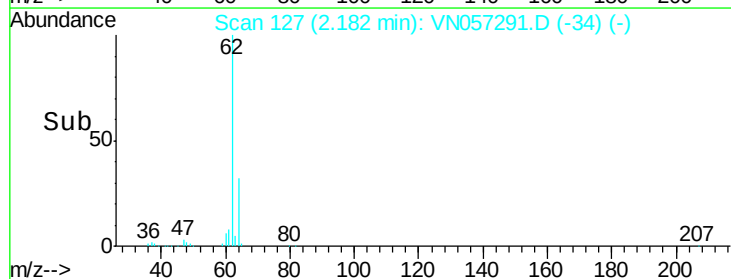
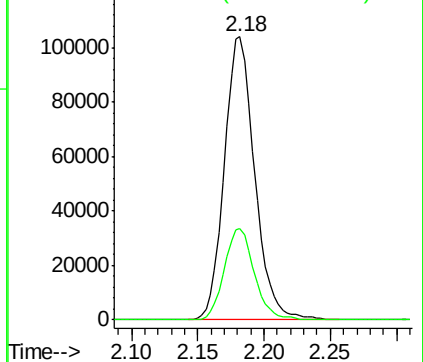
62 100

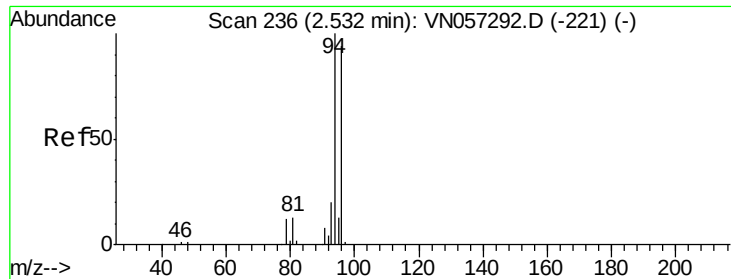
64 32.2 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 22.399 ug/l m

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

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Acq: 14 Aug 2019 17:03

Instrument :

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VSTDIC020

Tot Ion: 94 Resp: 127040

Ion Ratio Lower Upper

94 100

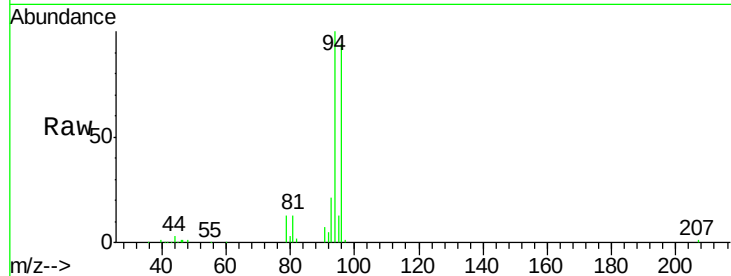
96 94.2 75.0 112.6

Manual Integrations

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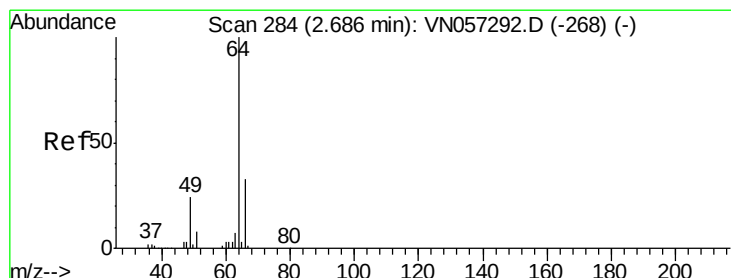
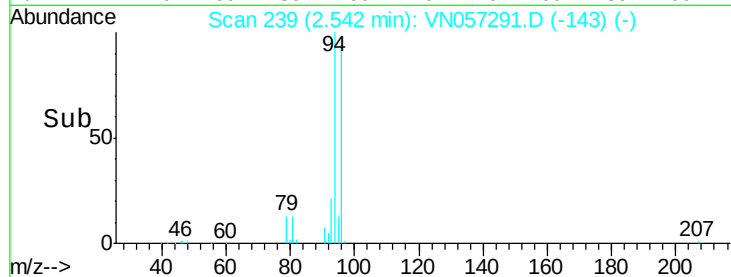
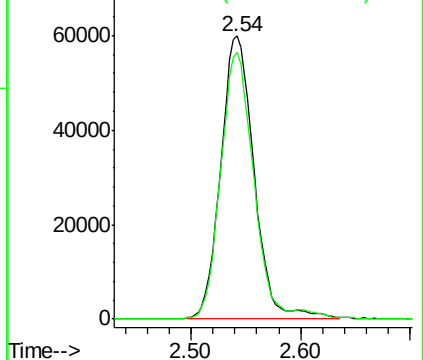
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 21.768 ug/l

RT: 2.69 min Scan# 286

Delta R.T. 0.01 min

Lab File: VN057291.D

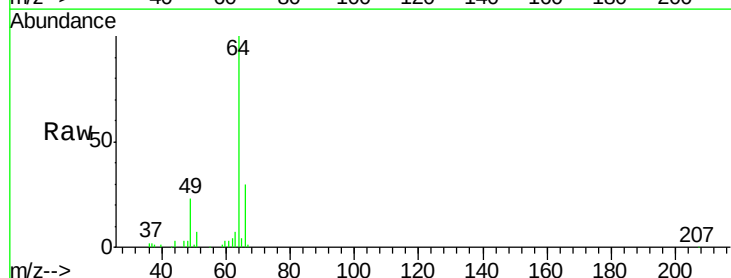
Acq: 14 Aug 2019 17:03

Tgt Ion: 64 Resp: 113568

Ion Ratio Lower Upper

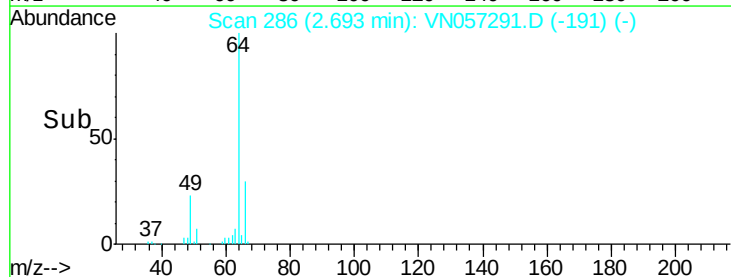
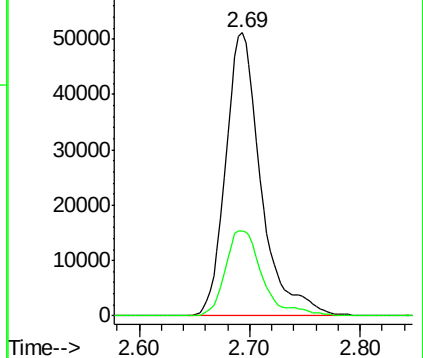
64 100

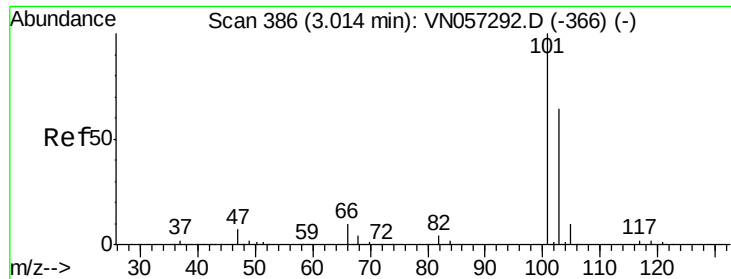
66 29.9 26.4 39.6



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

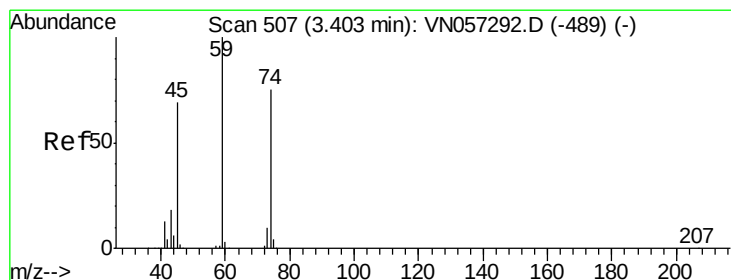
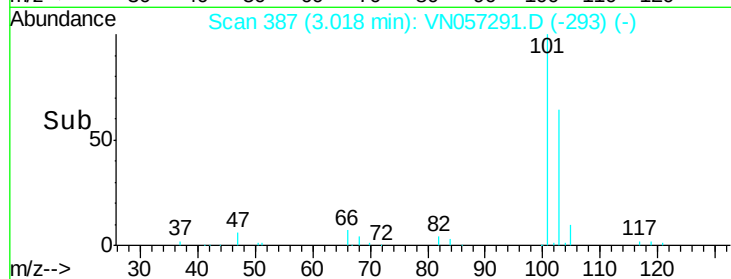
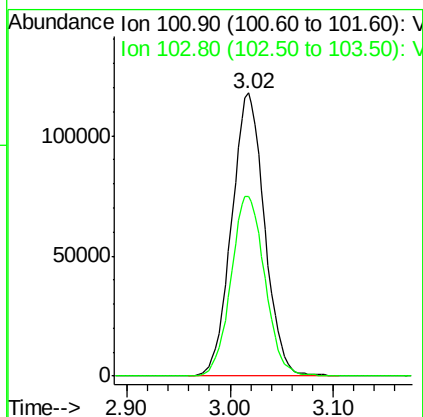
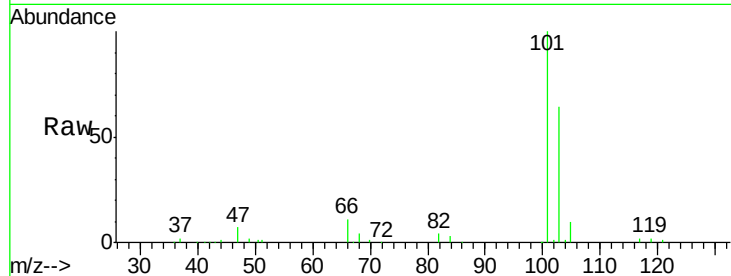
Trichlorofluoromethane
 Concen: 20.576 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.6	51.5	77.3

Manual Integrations
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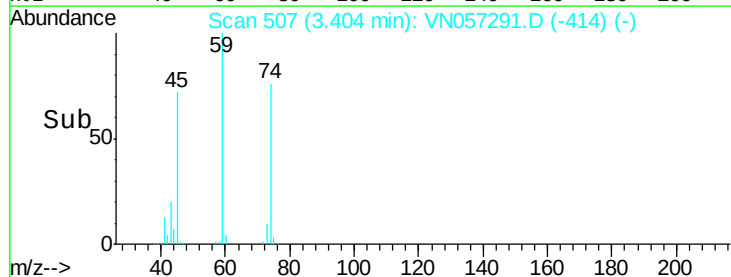
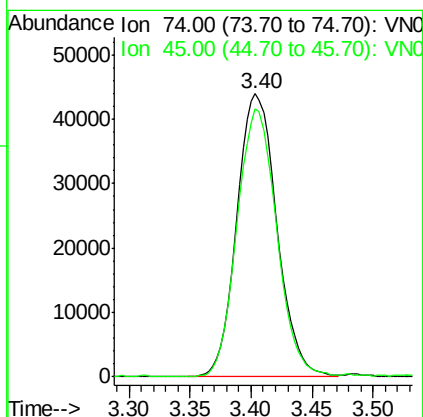
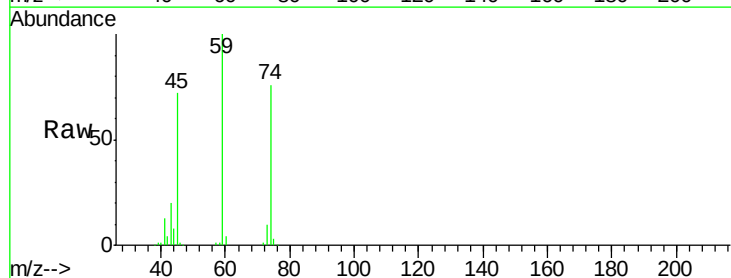
MMdadoda
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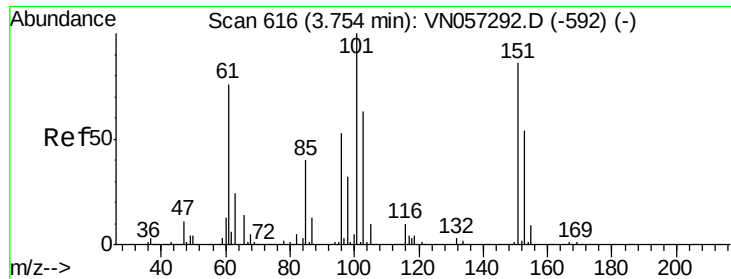


#8

Diethyl Ether
 Concen: 21.540 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.7	45.9	137.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.482 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

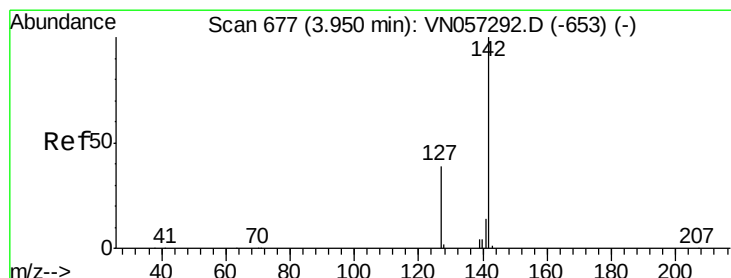
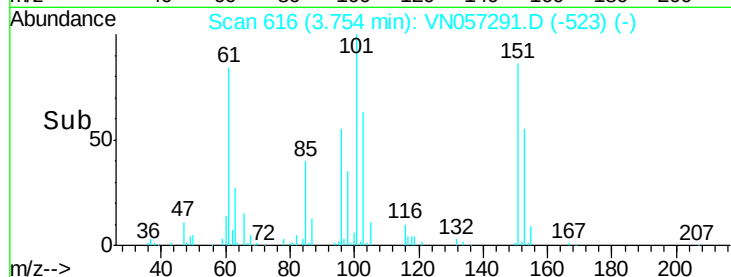
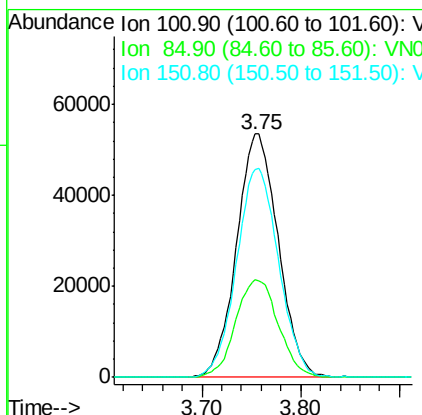
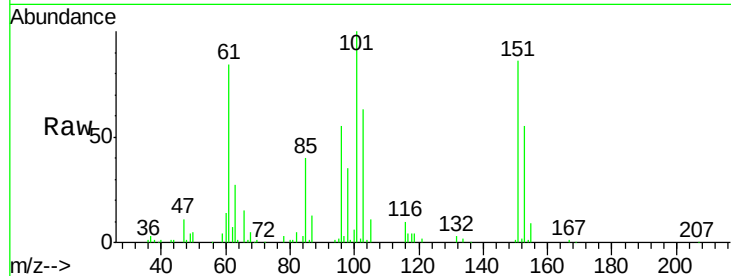
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	156282
Ion Ratio	Lower	Upper	
101	100		
85	41.1	32.7	49.1
151	87.1	69.1	103.7

Manual Integrations
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MMdadoda
8/19/2019 1:53:15 AM



#10

Methyl Iodide

Concen: 20.846 ug/l

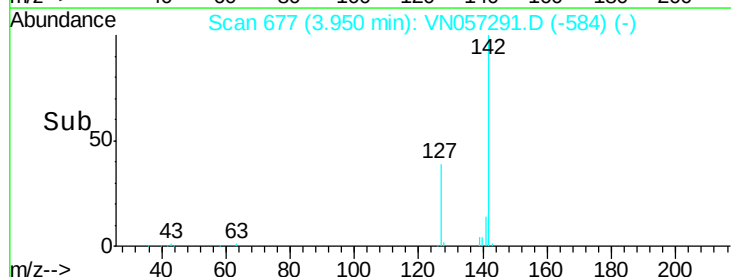
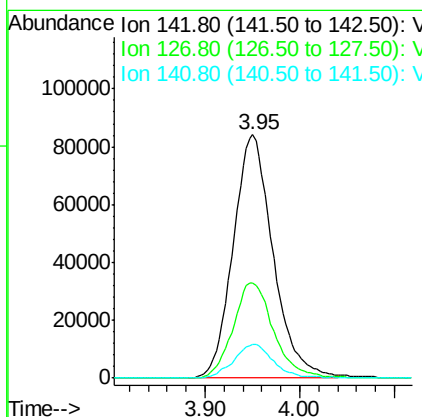
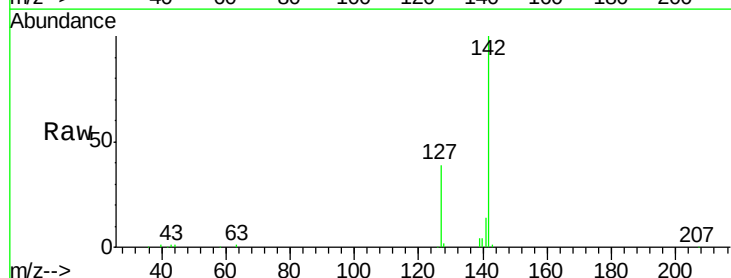
RT: 3.95 min Scan# 677

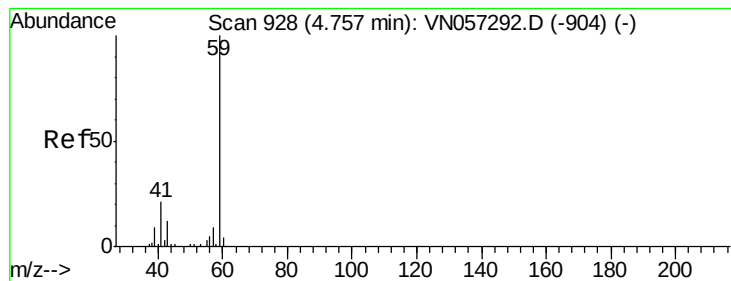
Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Tgt Ion:	142	Resp:	246633
Ion Ratio	Lower	Upper	
142	100		
127	40.0	31.6	47.4
141	13.8	11.2	16.8





#11

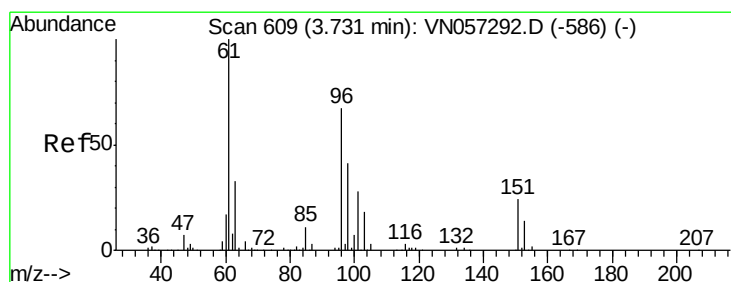
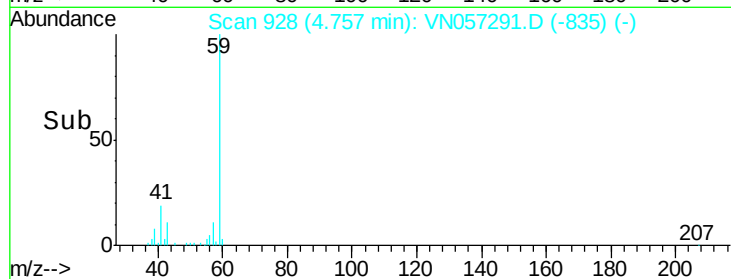
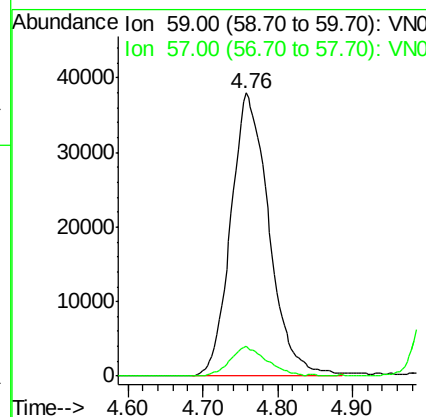
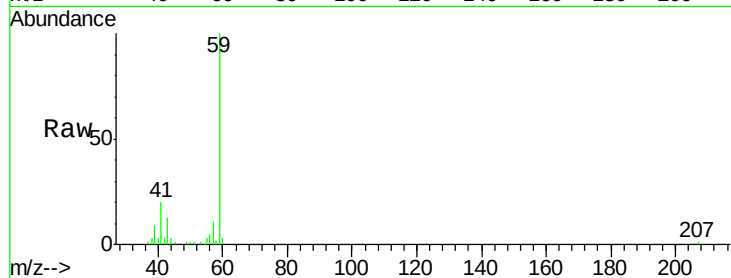
Tert butyl alcohol
 Concen: 111.260 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
59	100	134520		
57	10.1		8.2	12.2

Manual Integrations
 APPROVED

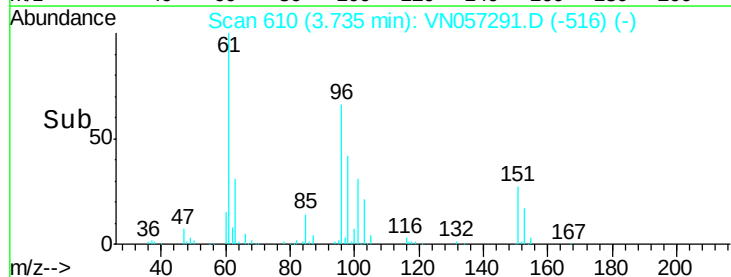
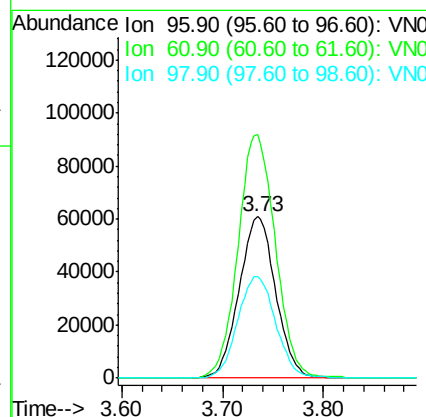
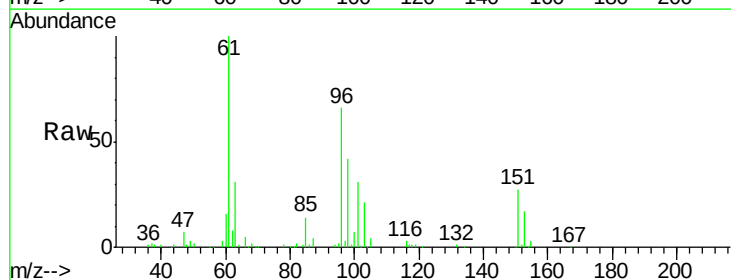
MMDadoda
 8/19/2019 1:53:15 AM

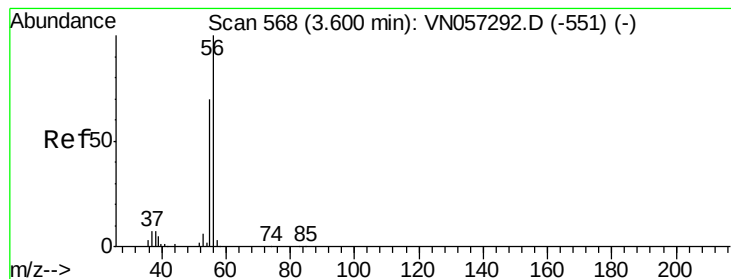


#12

1,1-Dichloroethene
 Concen: 20.193 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	153245		
61	151.0		119.7	179.5
98	63.3		49.0	73.4





#13

Acrolein

Concen: 92.008 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 76562

Ion Ratio Lower Upper

56 100

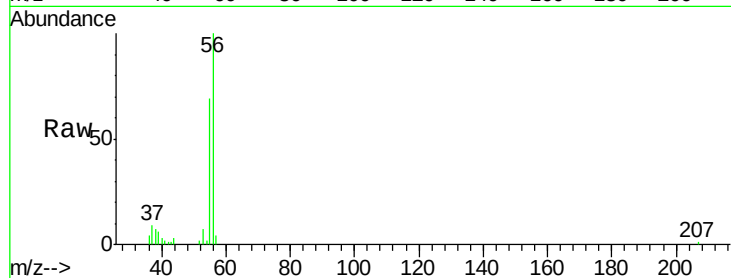
55 68.2 56.6 84.8

Manual Integrations

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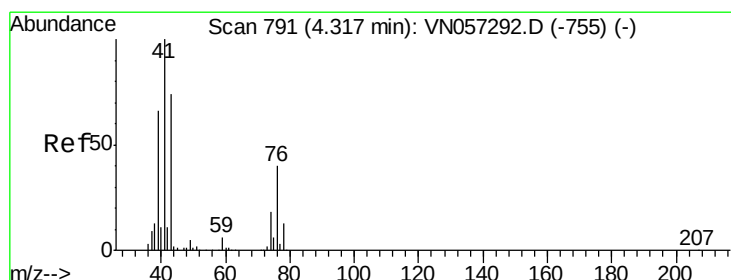
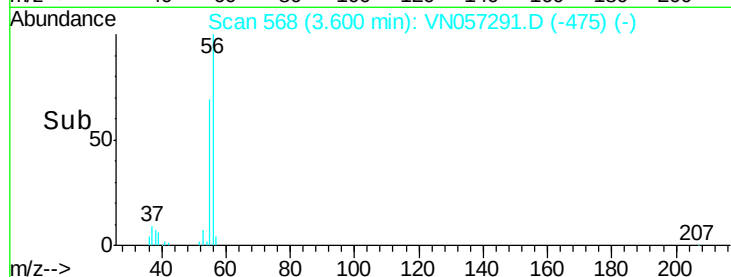
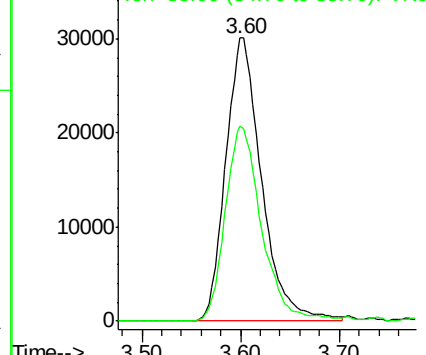
MMdadoda

8/19/2019 1:53:15 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 21.189 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

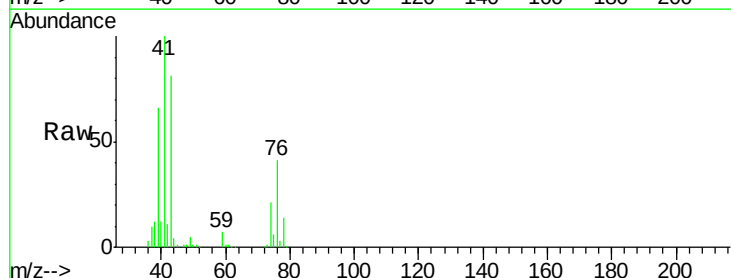
Tgt Ion: 41 Resp: 245205

Ion Ratio Lower Upper

41 100

39 62.2 49.0 73.6

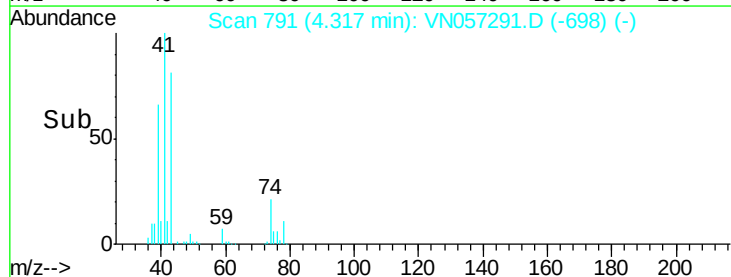
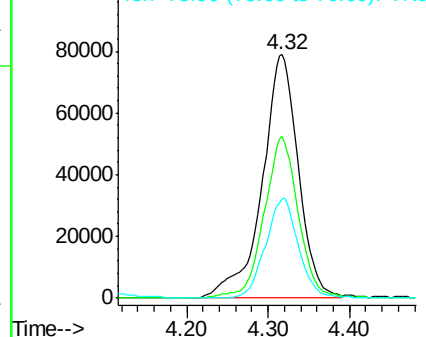
76 37.0 29.0 43.4

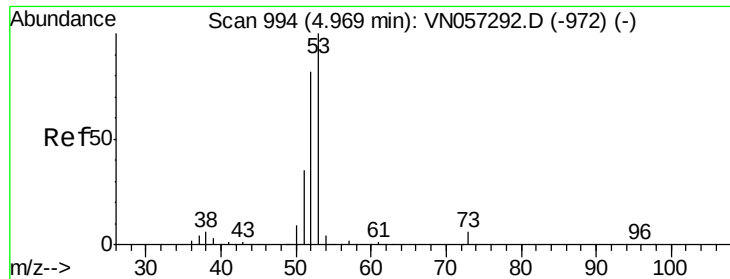


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 113.886 ug/l

RT: 4.97 min Scan# 995

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

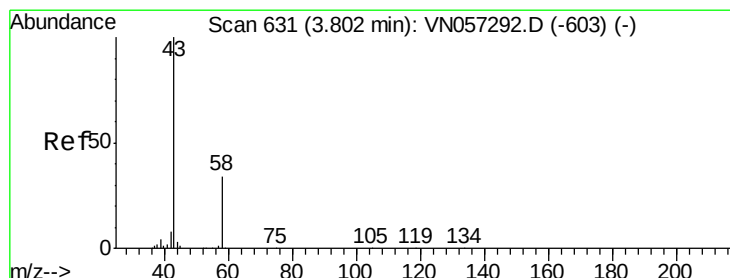
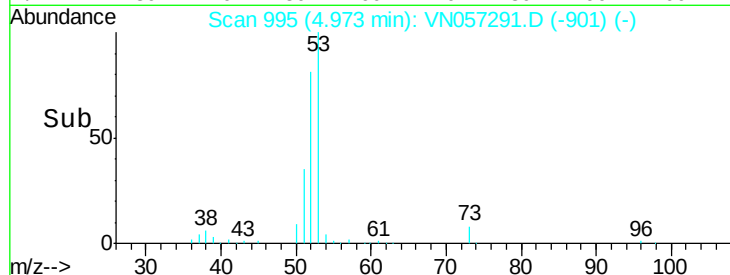
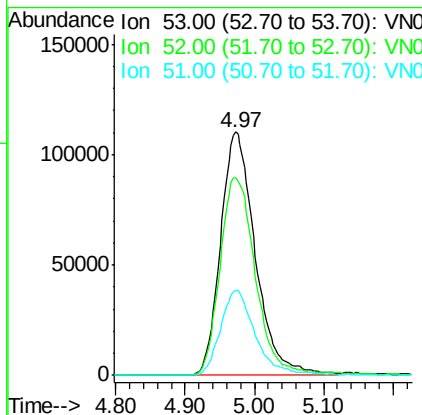
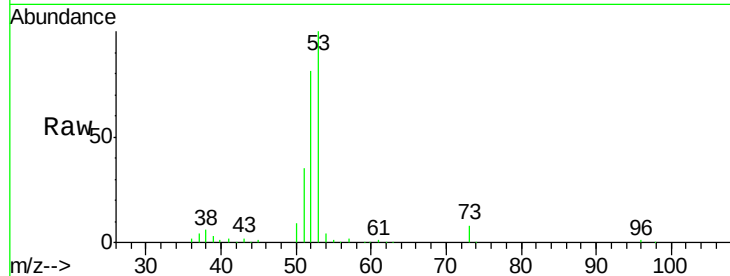
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	383996
Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.2	99.2
51	34.9	28.5	42.7

Manual Integrations
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MMDadoda
8/19/2019 1:53:15 AM



#16

Acetone

Concen: 110.897 ug/l

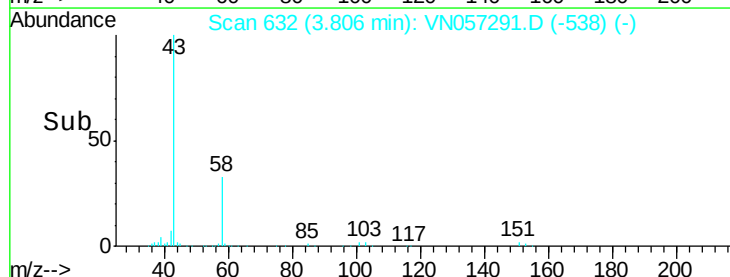
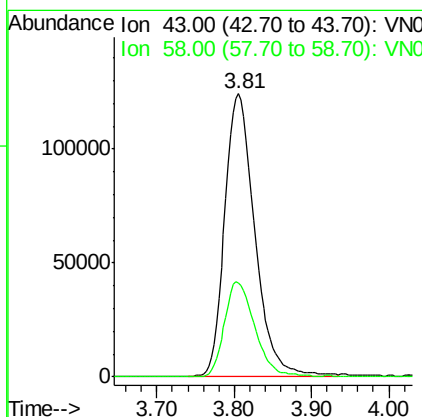
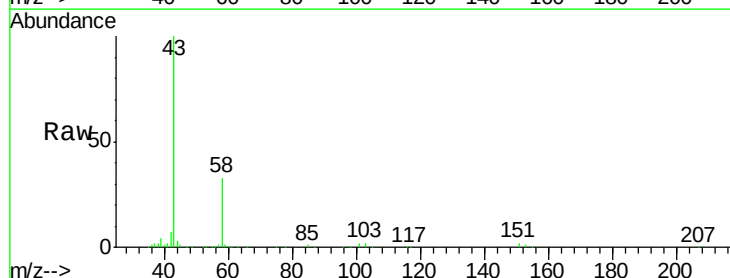
RT: 3.81 min Scan# 632

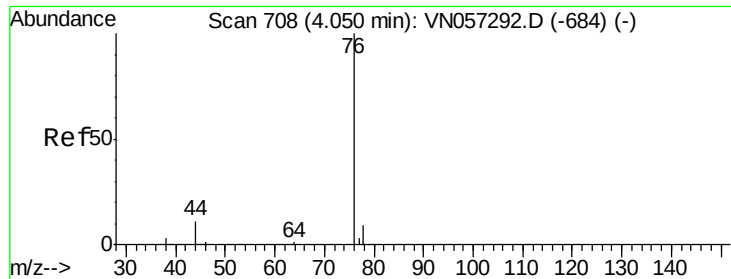
Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Tgt Ion:	43	Resp:	335291
Ion	Ratio	Lower	Upper
43	100		
58	33.3	27.0	40.6





#17

Carbon Disulfide

Concen: 19.385 ug/l

RT: 4.05 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 400272

Ion Ratio Lower Upper

76 100

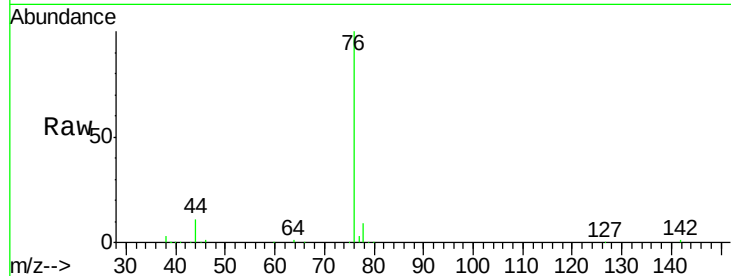
78 9.2 7.0 10.6

Manual Integrations

APPROVED

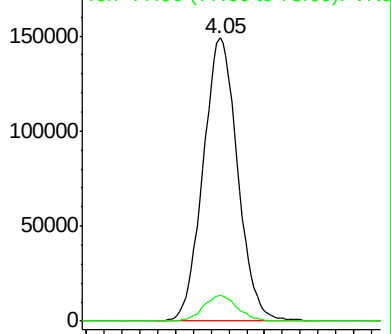
MMdadoda

8/19/2019 1:53:15 AM

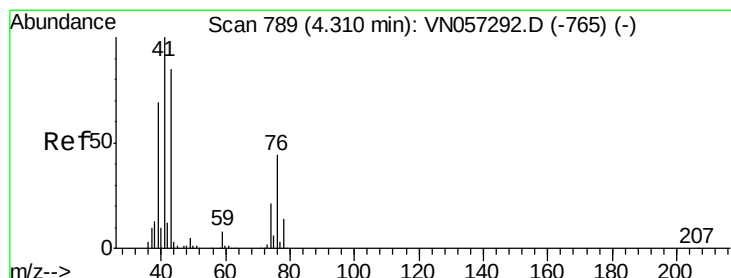
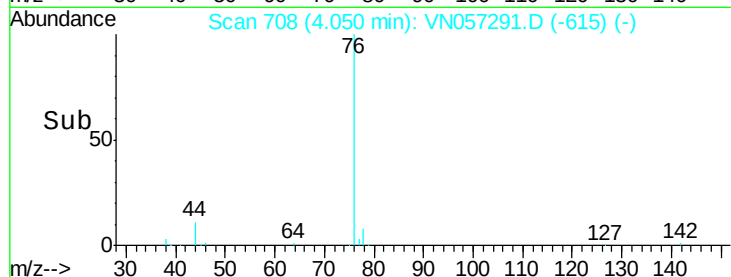


Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



Time-->



#18

Methyl Acetate

Concen: 18.682 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN057291.D

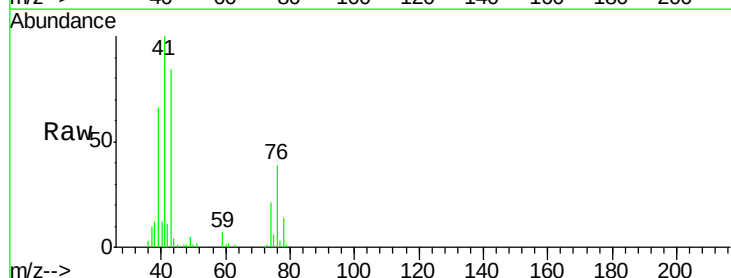
Acq: 14 Aug 2019 17:03

Tgt Ion: 43 Resp: 193885

Ion Ratio Lower Upper

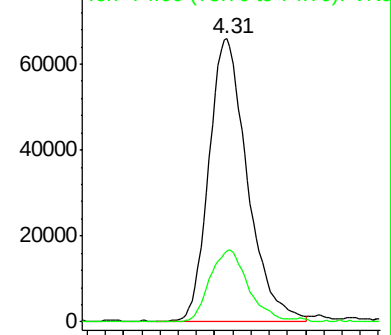
43 100

74 25.3 20.2 30.2

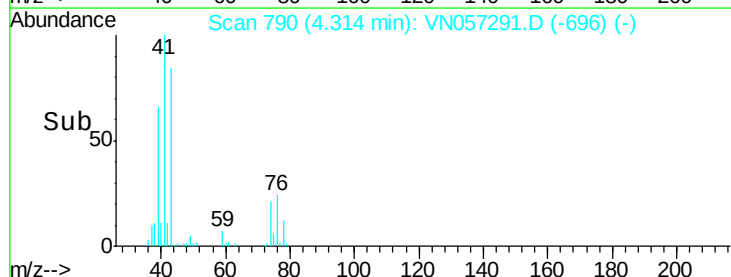


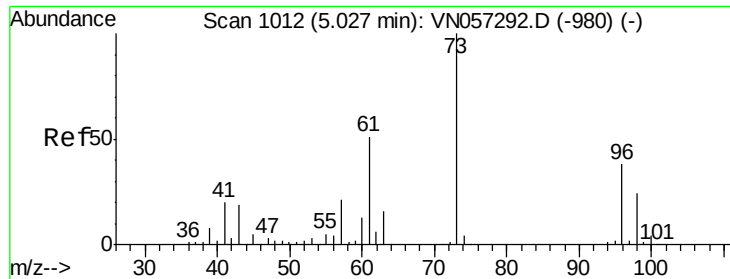
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO



Time-->





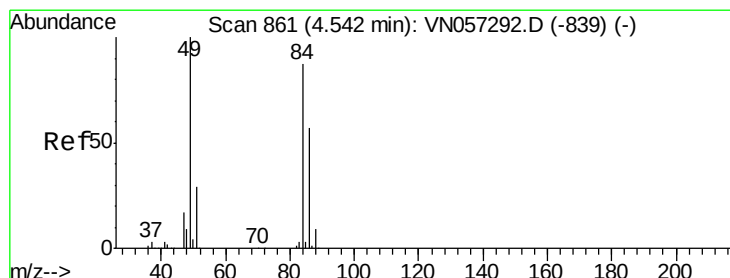
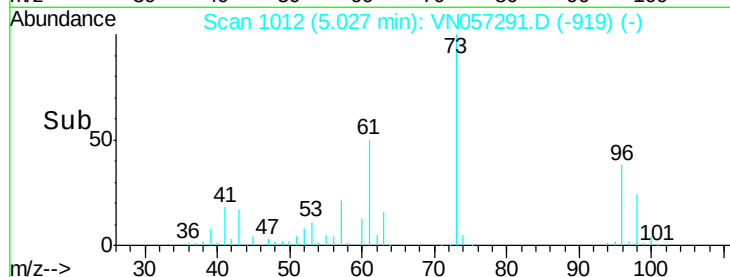
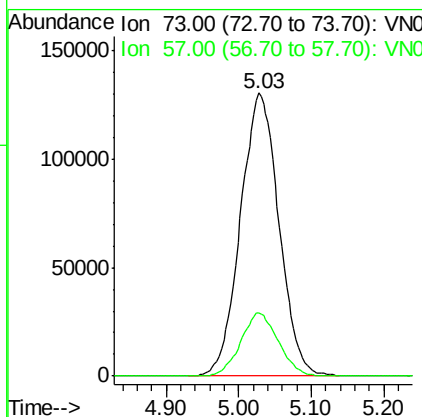
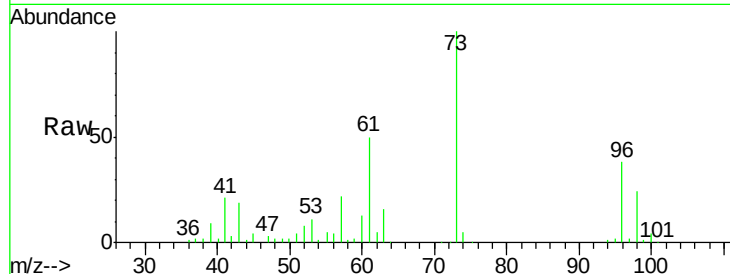
#19
Methvl tert-butvl Ether
Concen: 21.075 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 480482
Ion Ratio Lower Upper
73 100
57 22.3 16.9 25.3

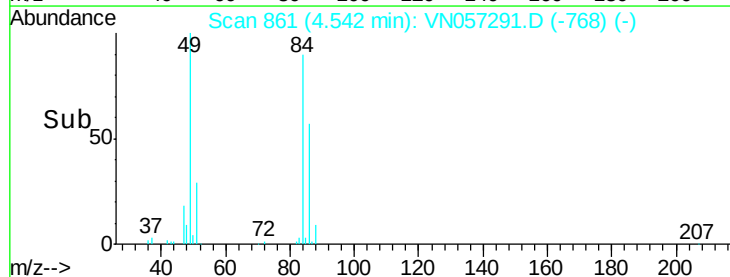
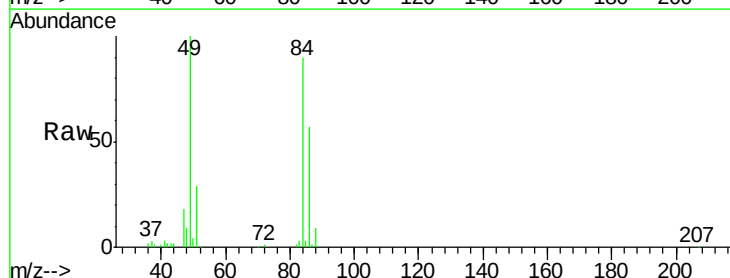
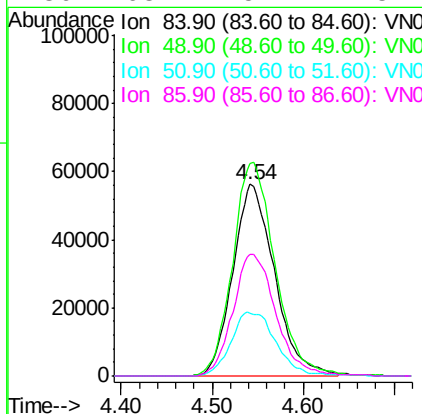
Manual Integrations
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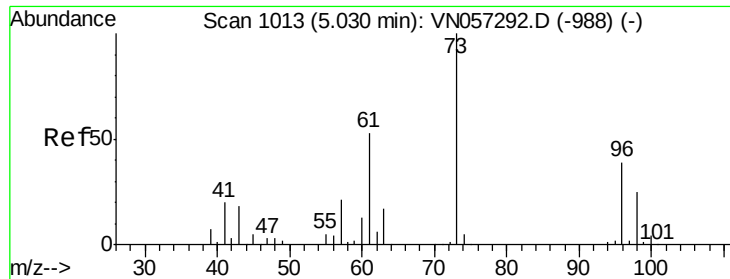
MMdadoda
8/19/2019 1:53:15 AM



#20
Methylene Chloride
Concen: 20.271 ug/l
RT: 4.54 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion: 84 Resp: 179132
Ion Ratio Lower Upper
84 100
49 110.9 92.0 138.0
51 32.7 27.1 40.7
86 63.4 52.2 78.2





#21

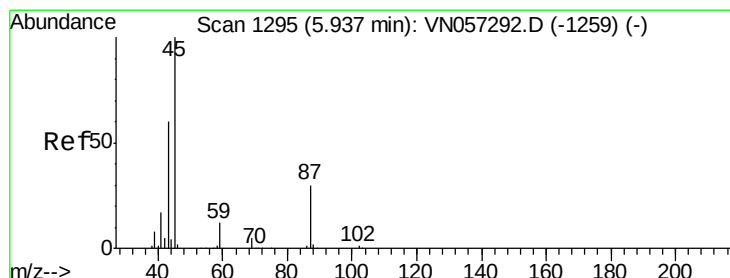
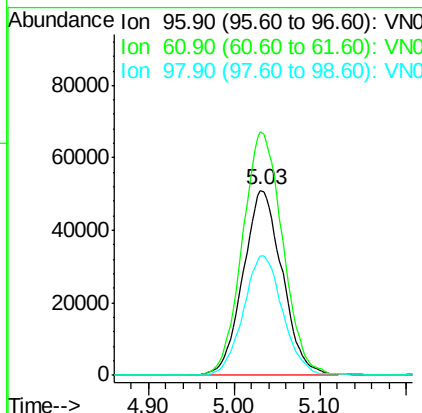
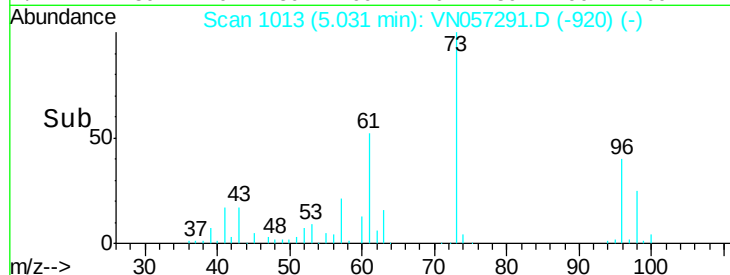
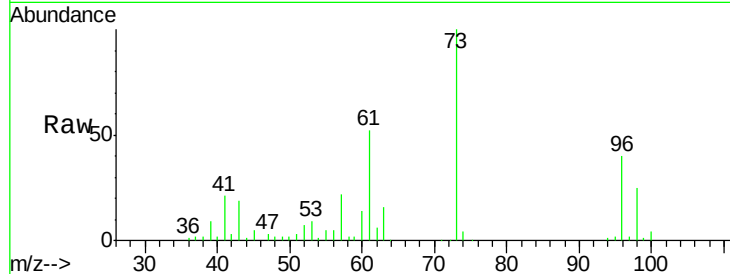
trans-1,2-Dichloroethene
Concen: 20.017 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.4	109.5	164.3
98	64.2	51.0	76.6

Manual Integrations
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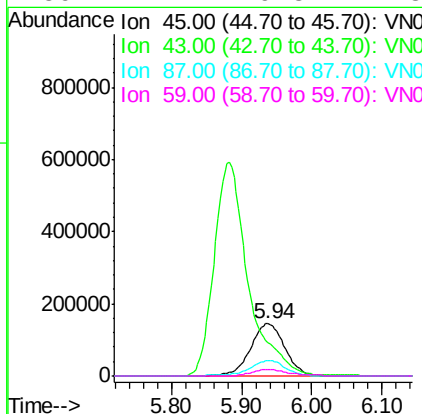
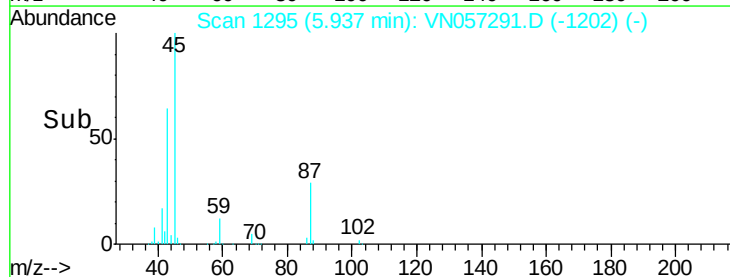
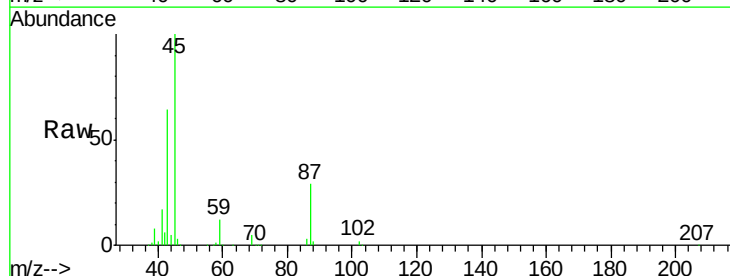
MMdadoda
8/19/2019 1:53:15 AM

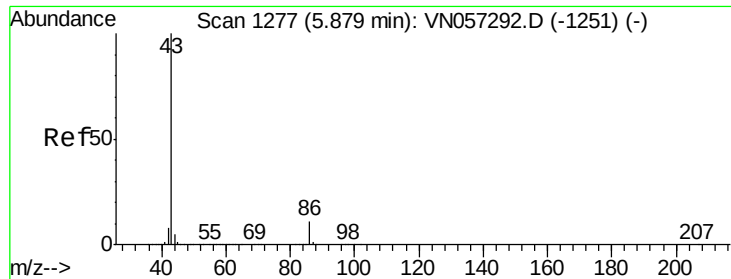


#22

Diisopropyl ether
Concen: 21.683 ug/l
RT: 5.94 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.6	48.3	72.5
87	29.1	24.6	36.8
59	11.4	9.8	14.8





#23

Vinyl Acetate

Concen: 109.784 ug/l

RT: 5.88 min Scan# 1278

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 1988220

Ion Ratio Lower Upper

43 100

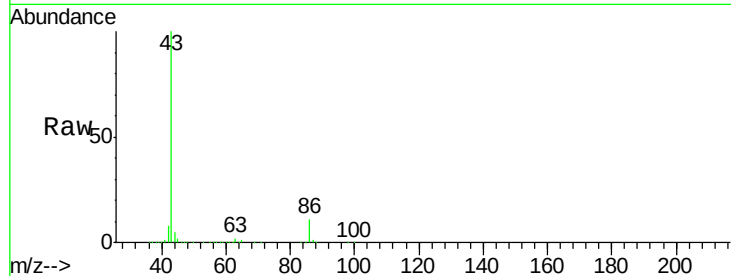
86 11.4 8.7 13.1

Manual Integrations

APPROVED

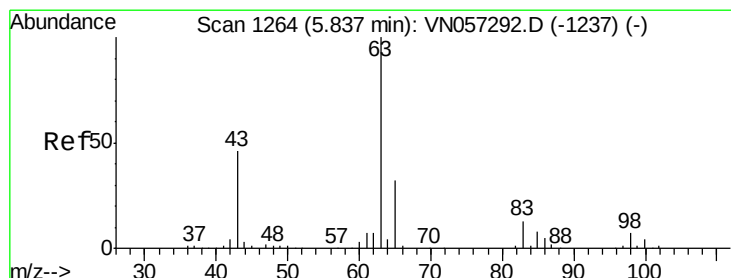
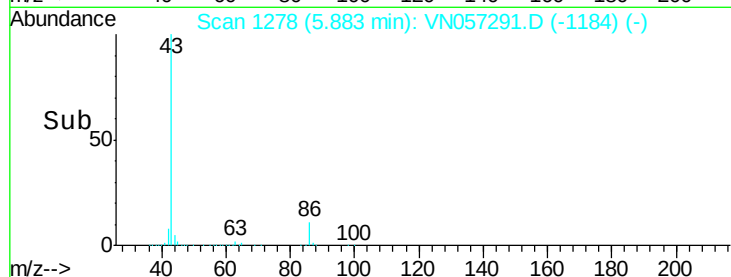
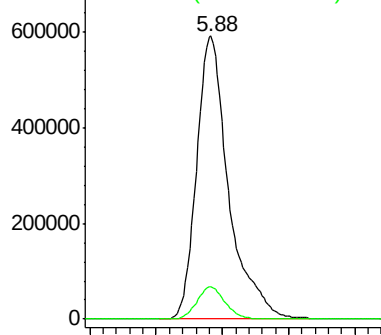
MMdadoda

8/19/2019 1:53:15 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 21.087 ug/l

RT: 5.84 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

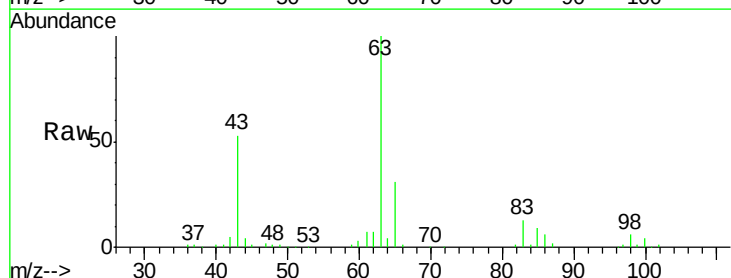
Tgt Ion: 63 Resp: 301625

Ion Ratio Lower Upper

63 100

98 6.2 3.3 9.9

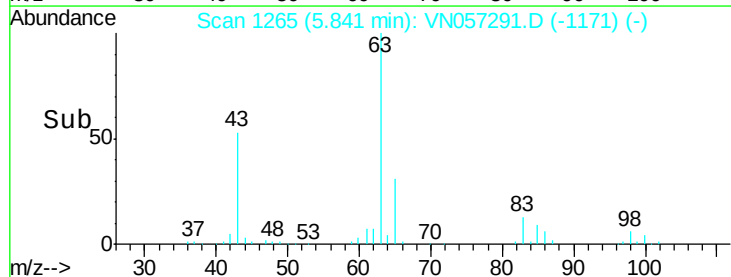
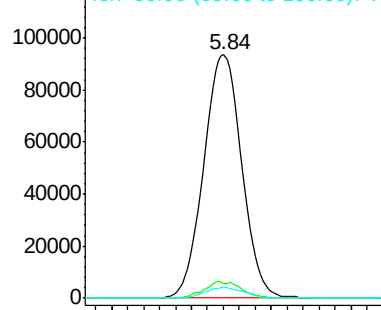
100 4.2 2.1 6.5

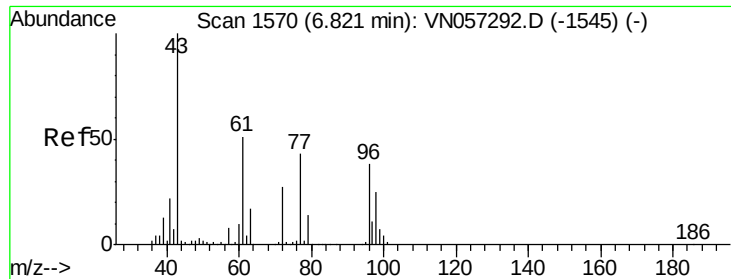


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





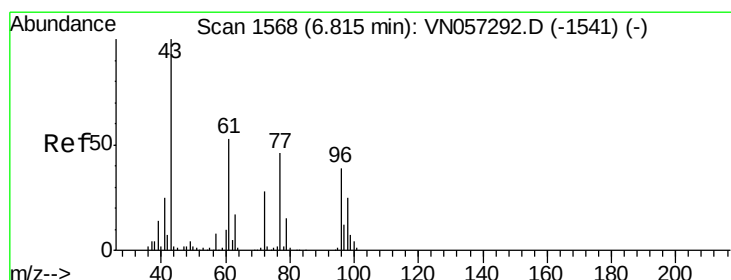
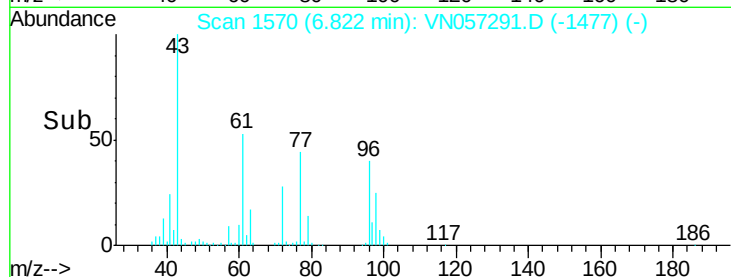
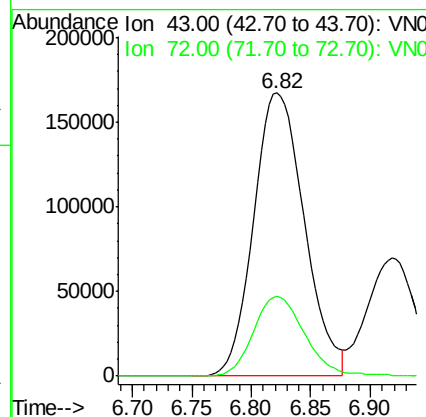
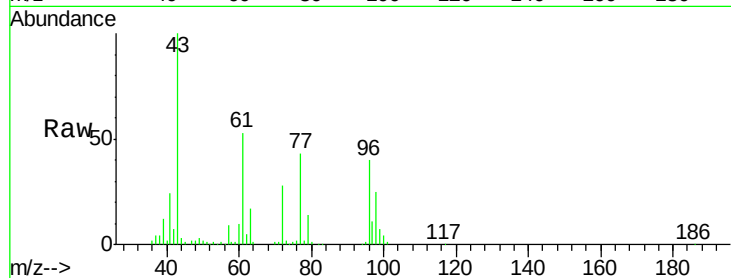
#25
2-Butanone
Concen: 113.425 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
72	28.1	21.5	32.3

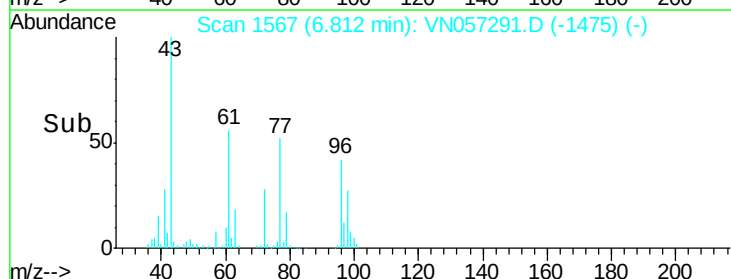
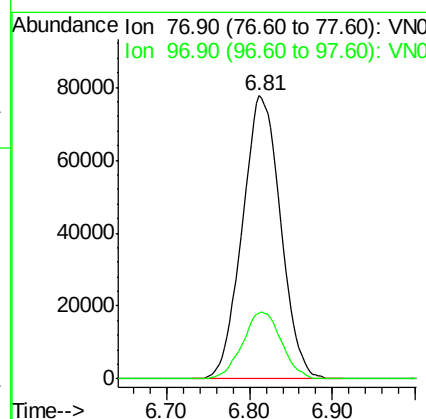
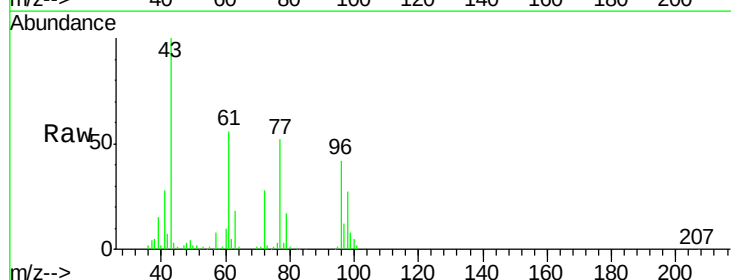
Manual Integrations
APPROVED

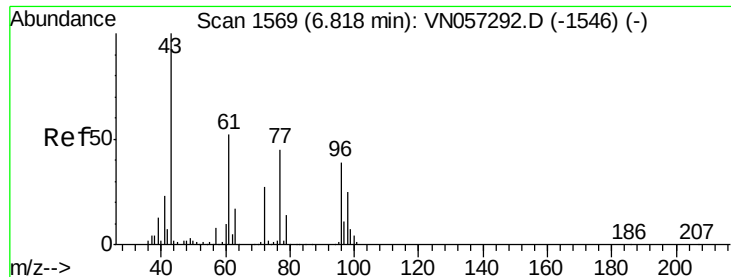
MMdadoda
8/19/2019 1:53:15 AM



#26
2,2-Dichloropropane
Concen: 21.333 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
77	100		
97	24.1	12.3	36.9





#27

cis-1,2-Dichloroethene

Concen: 20.781 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

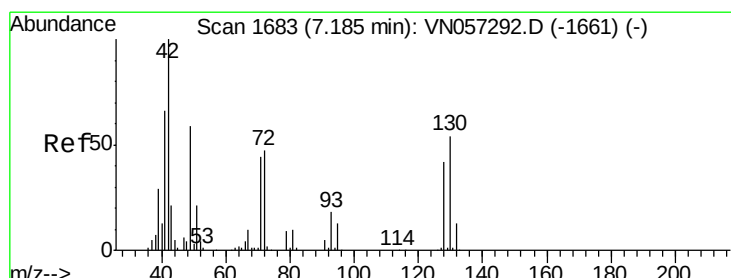
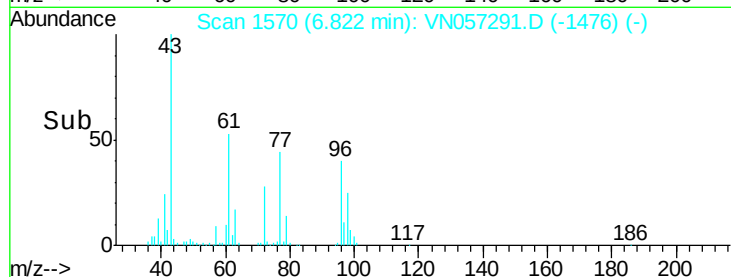
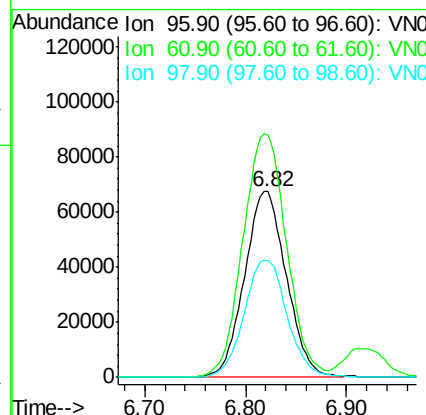
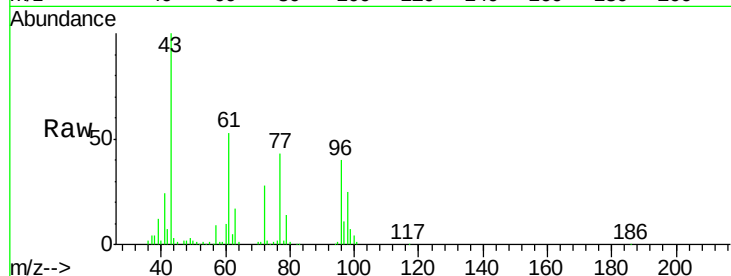
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	193881
Ion	Ratio	Lower	Upper
96	100		
61	136.5	0.0	272.0
98	65.0	0.0	130.4

Manual Integrations
APPROVED

MMdadoda
8/19/2019 1:53:15 AM



#28

Bromochloromethane

Concen: 22.168 ug/l

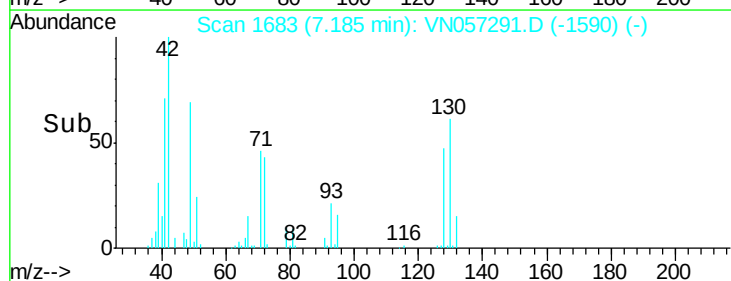
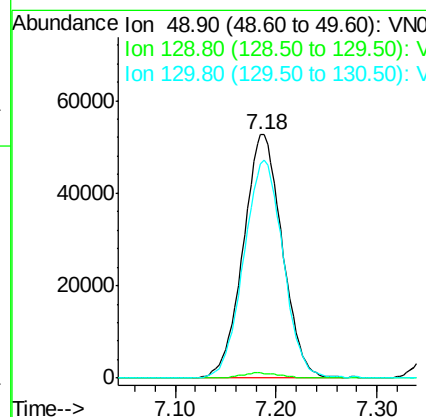
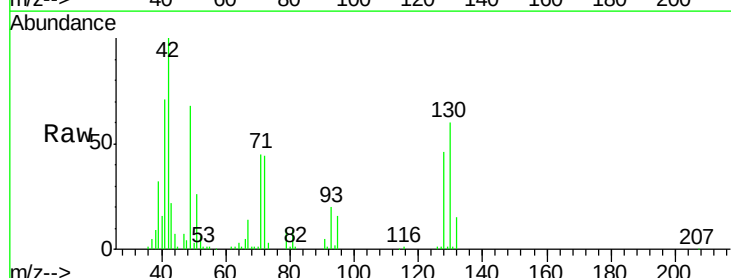
RT: 7.18 min Scan# 1683

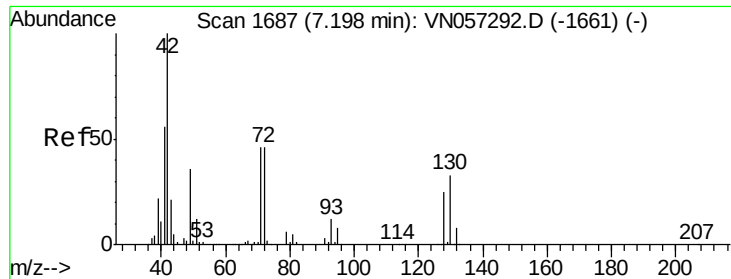
Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Tgt Ion:	49	Resp:	141223
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	2.0#
130	90.4	73.2	109.8





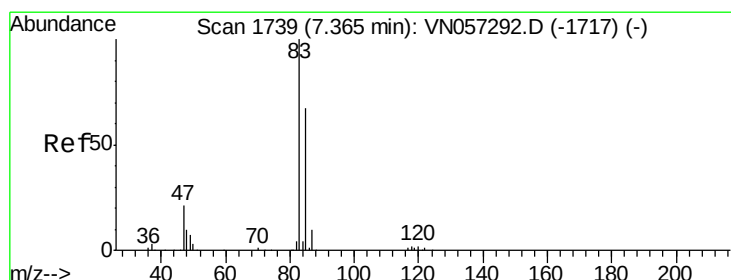
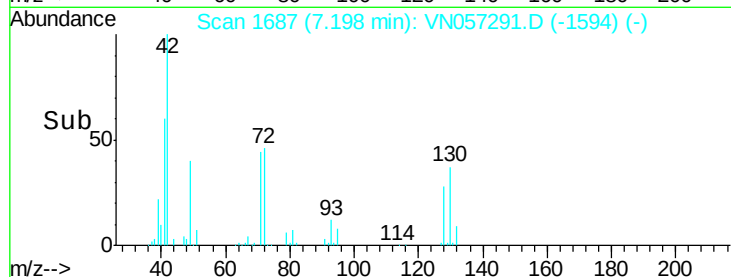
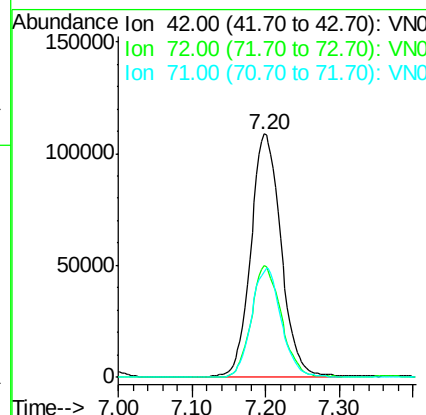
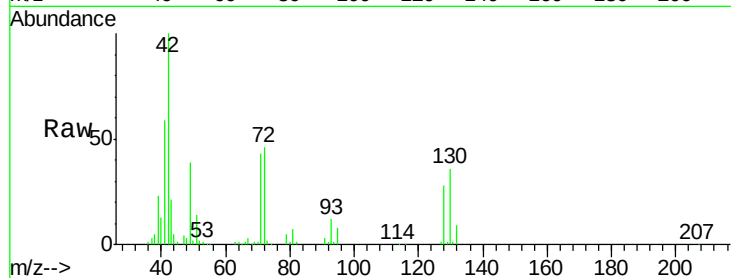
#29
Tetrahydrofuran
Concen: 112.697 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.2	37.8	56.6
71	44.1	35.7	53.5

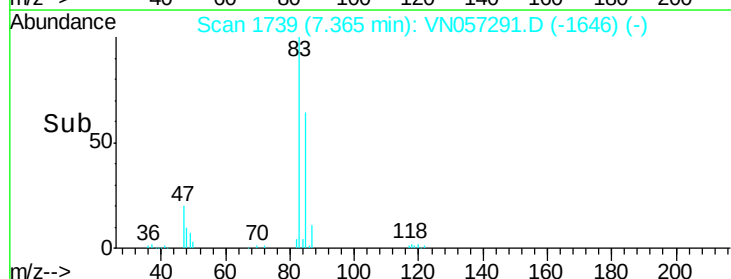
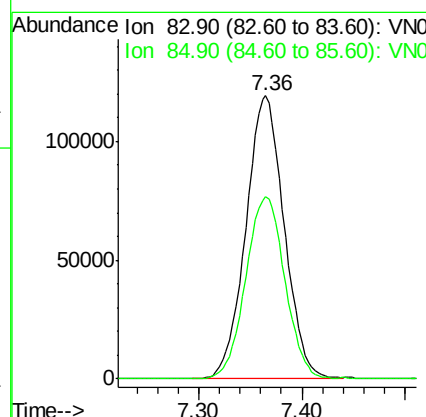
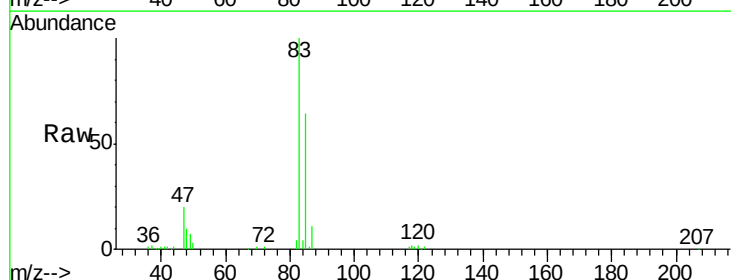
Manual Integrations
APPROVED

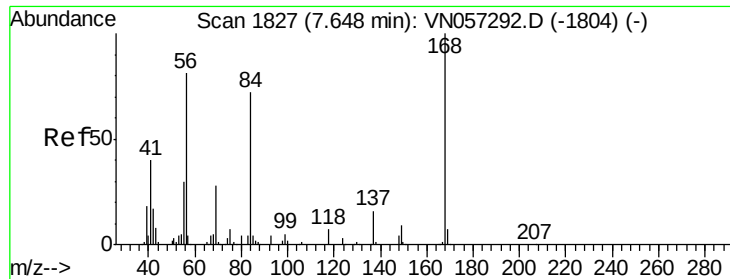
MMdadoda
8/19/2019 1:53:15 AM



#30
Chloroform
Concen: 20.566 ug/l
RT: 7.36 min Scan# 1739
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	53.3	79.9





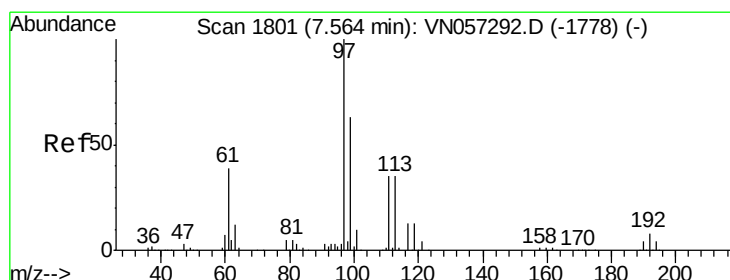
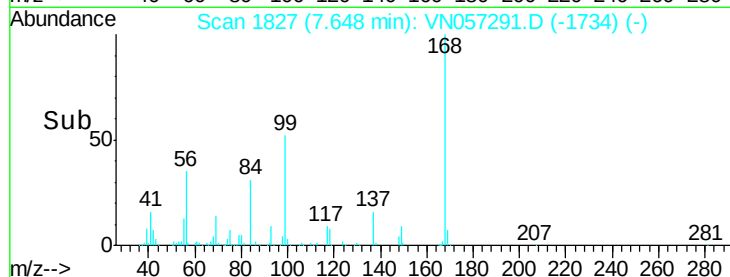
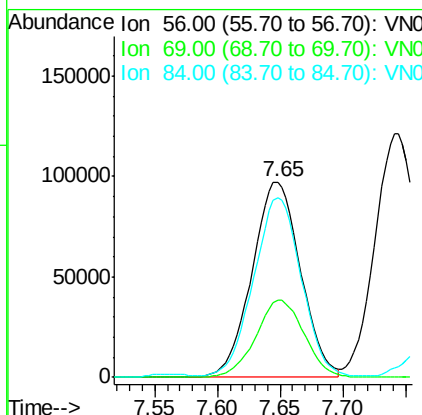
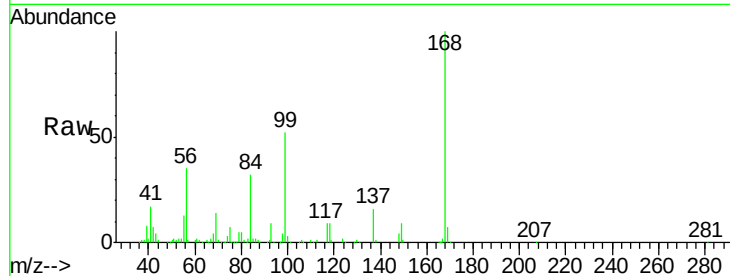
#31
Cyclohexane
Concen: 21.041 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
56	100		261626		
69	39.7	27.3	40.9		
84	91.2	71.0	106.6		

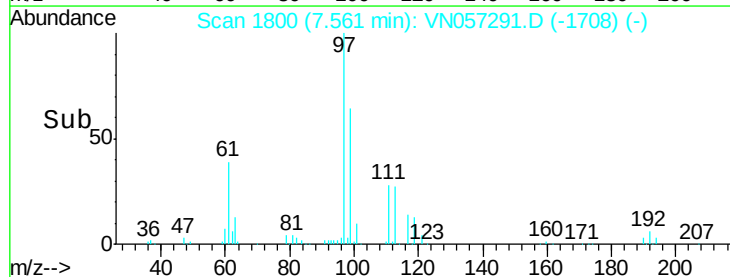
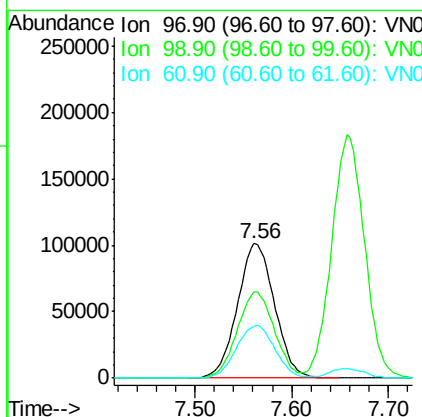
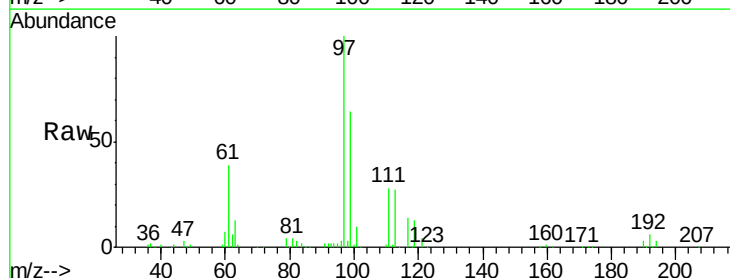
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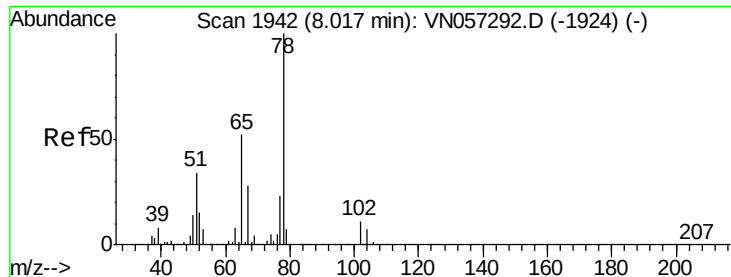
MMdadoda
8/19/2019 1:53:15 AM



#32
1,1,1-Trichloroethane
Concen: 21.291 ug/l
RT: 7.56 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
97	100		269490		
99	64.3	50.3	75.5		
61	40.4	31.3	46.9		





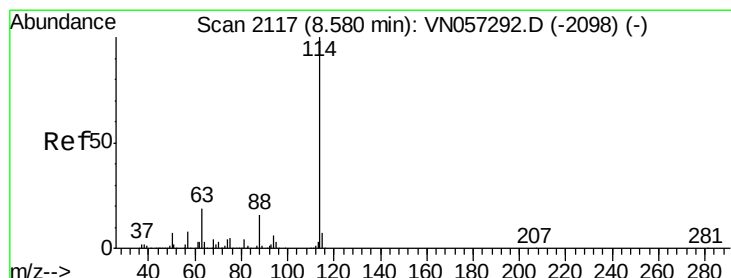
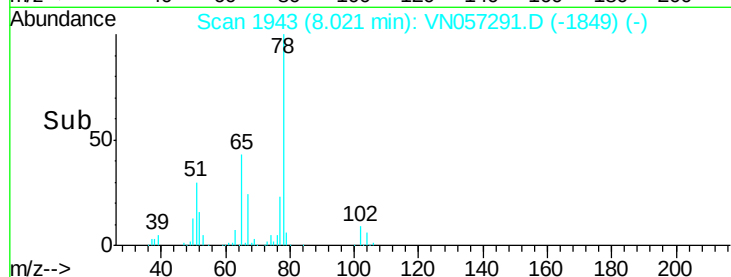
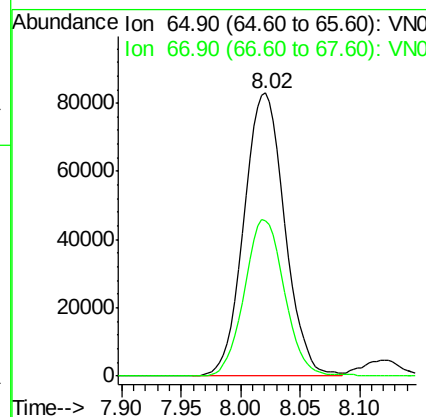
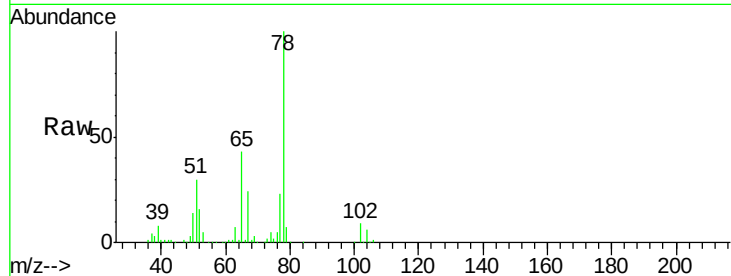
#33
 1,2-Dichloroethane-d4
 Concen: 22.373 ug/l
 RT: 8.02 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	196946		
67	54.4	0.0	107.4	

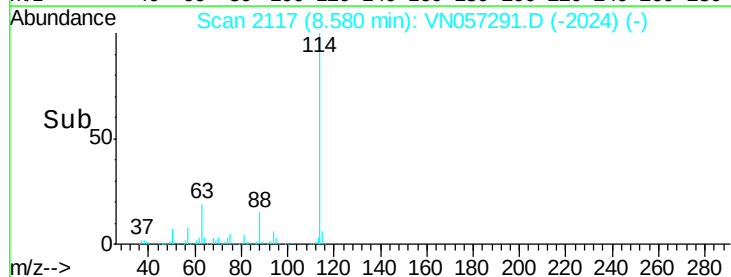
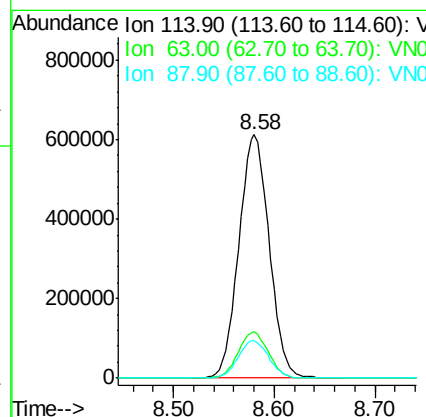
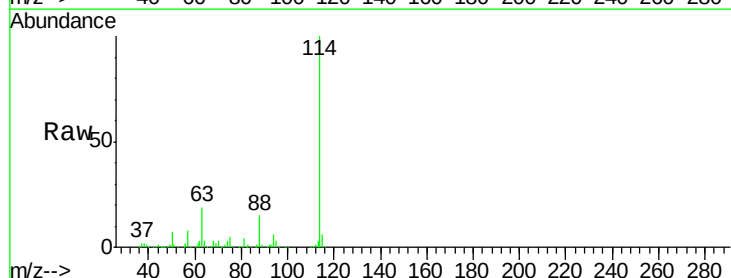
Manual Integrations
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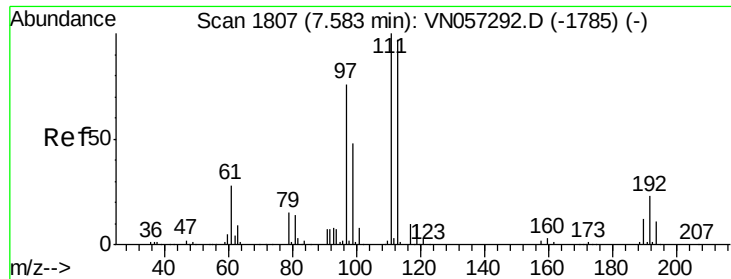
MMdadoda
 8/19/2019 1:53:15 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2117
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1276787		
63	18.9	0.0	38.8	
88	15.5	0.0	31.4	





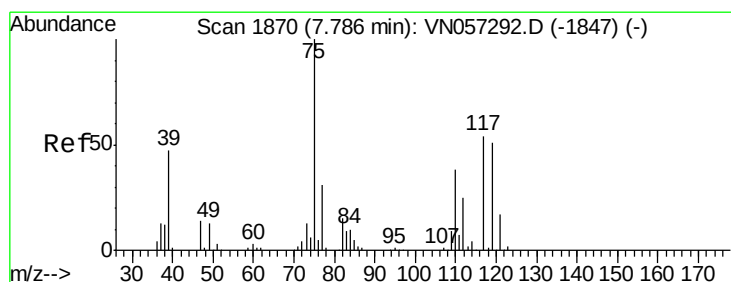
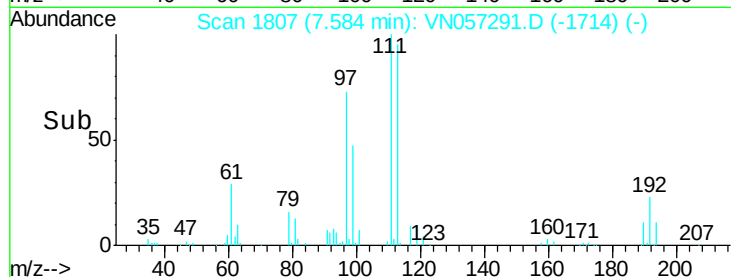
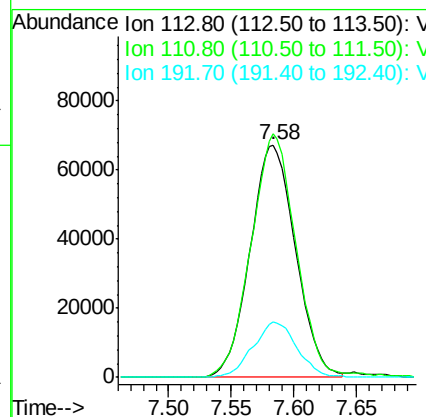
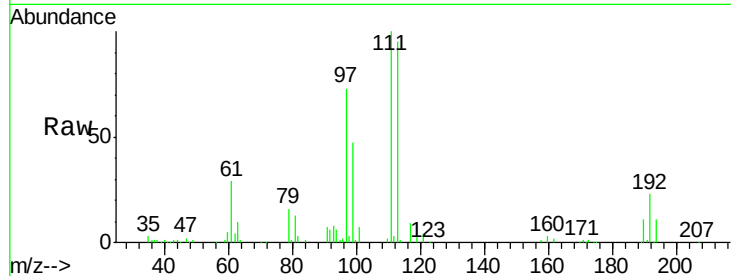
#35
 Dibromofluoromethane
 Concen: 20.990 ug/l
 RT: 7.58 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	169605		
111	103.1	82.1	123.1	
192	23.2	19.3	28.9	

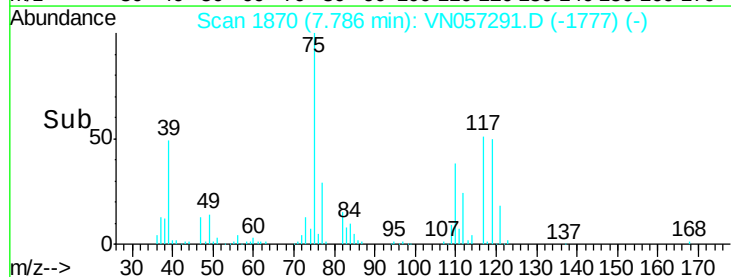
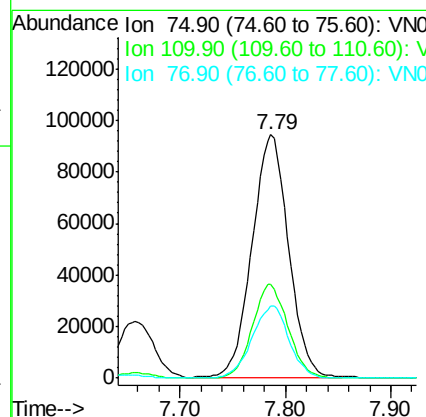
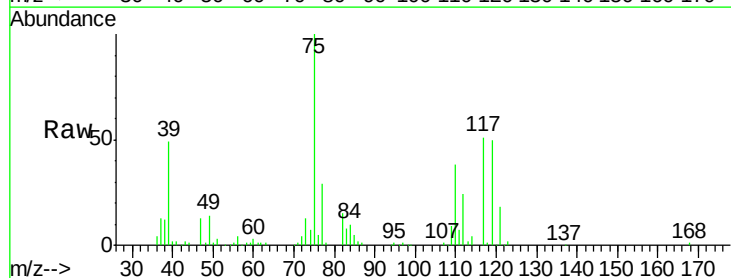
Manual Integrations
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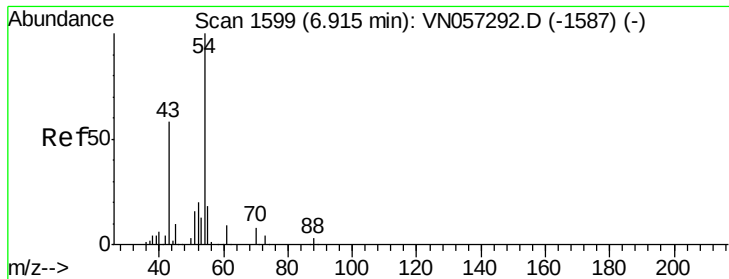
MMDadoda
 8/19/2019 1:53:15 AM



#36
 1,1-Dichloropropene
 Concen: 20.438 ug/l
 RT: 7.79 min Scan# 1870
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	226491		
110	37.7	19.5	58.5	
77	30.3	25.0	37.6	





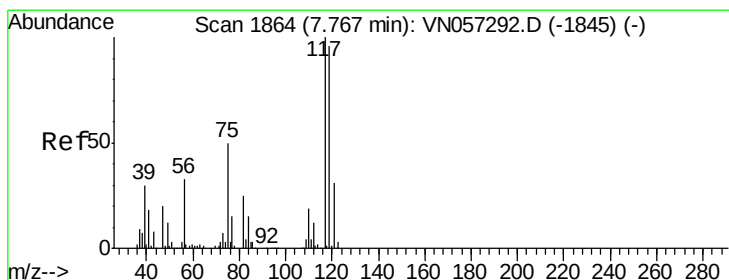
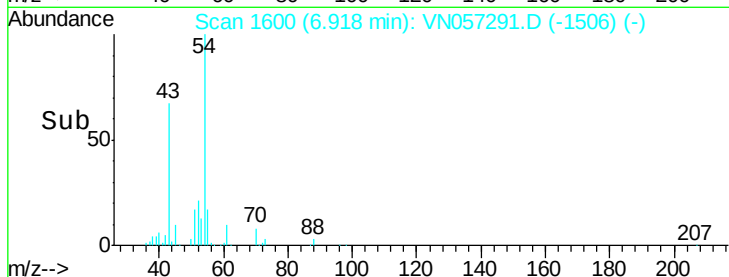
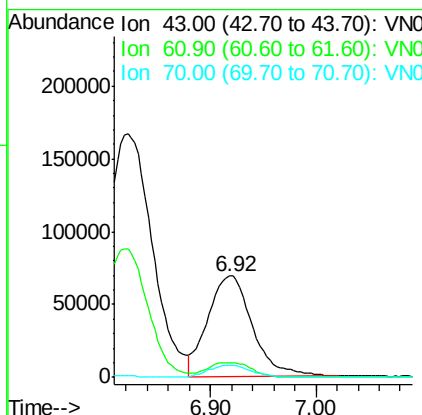
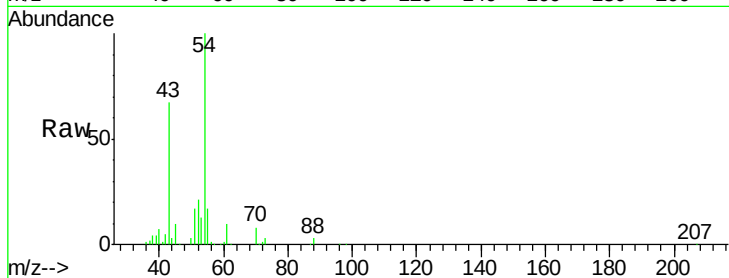
#37
Ethyl Acetate
Concen: 22.213 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	12.0	18.0
70	11.9	9.2	13.8

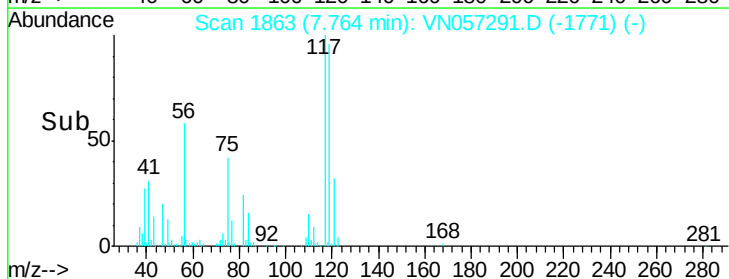
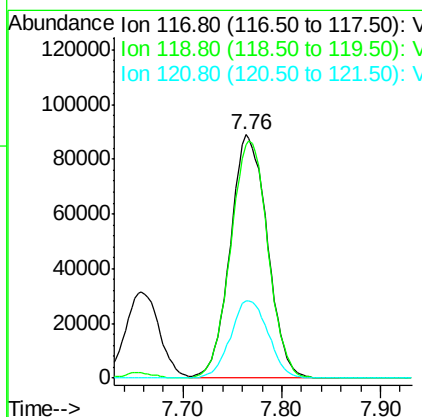
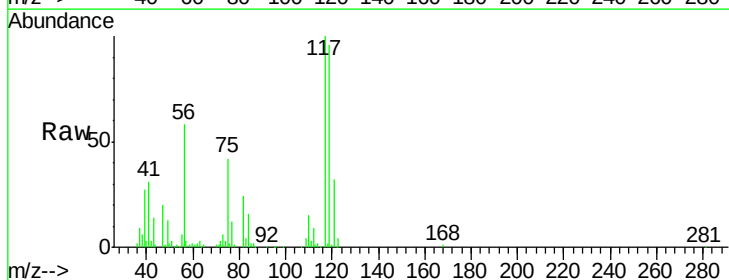
Manual Integrations
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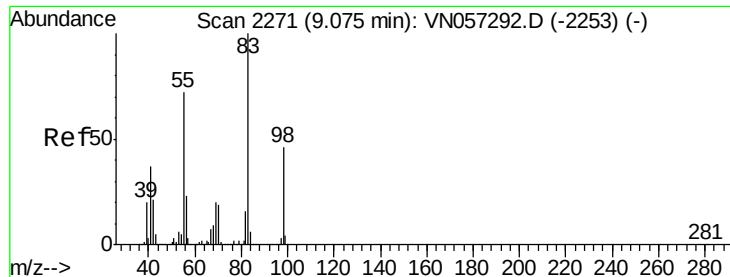
MMdadoda
8/19/2019 1:53:15 AM



#38
Carbon Tetrachloride
Concen: 19.768 ug/l
RT: 7.76 min Scan# 1863
Delta R.T. -0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.8	115.2
121	31.9	25.0	37.4





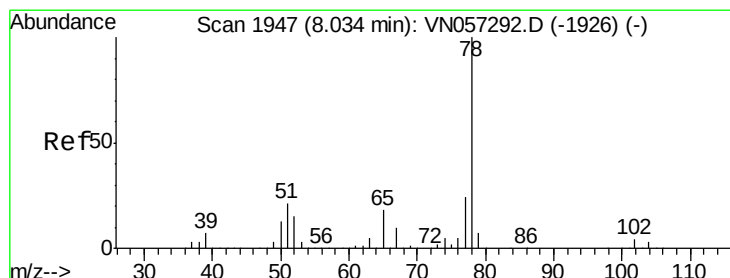
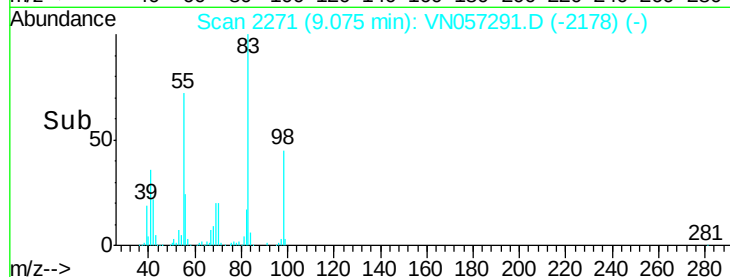
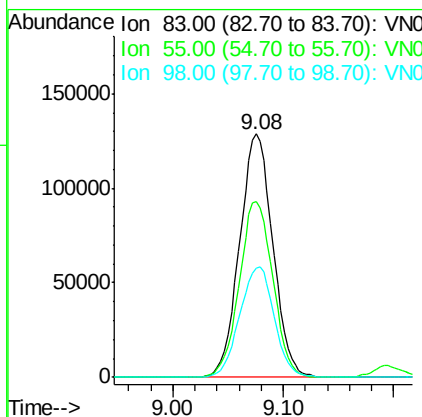
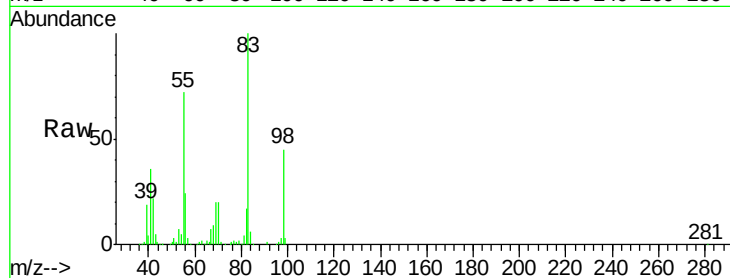
#39
Methylvlcyclohexane
Concen: 20.504 ug/l
RT: 9.08 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	72.4	57.5	86.3
98	45.1	36.6	55.0

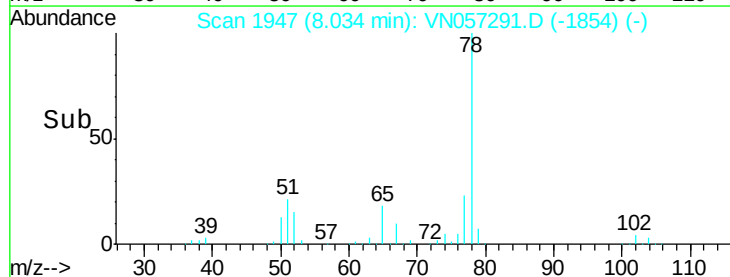
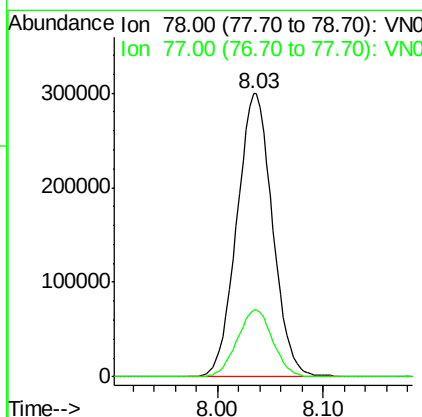
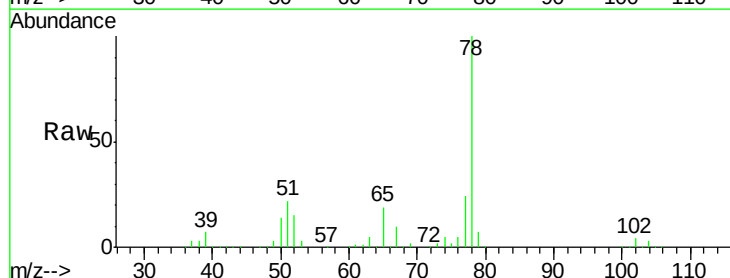
Manual Integrations
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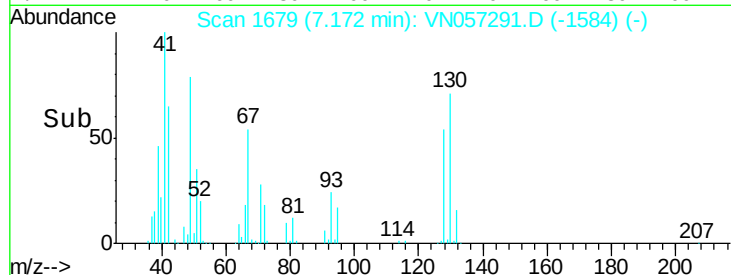
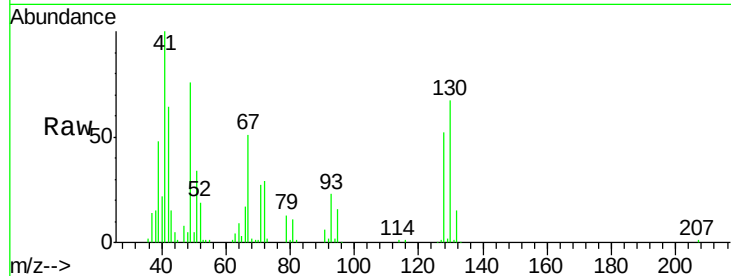
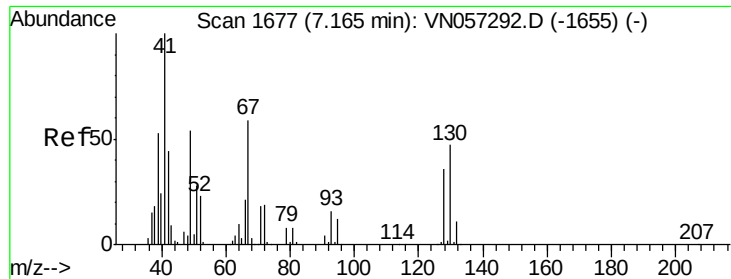
MMdadoda
8/19/2019 1:53:15 AM



#40
Benzene
Concen: 20.741 ug/l
RT: 8.03 min Scan# 1947
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.1	28.7





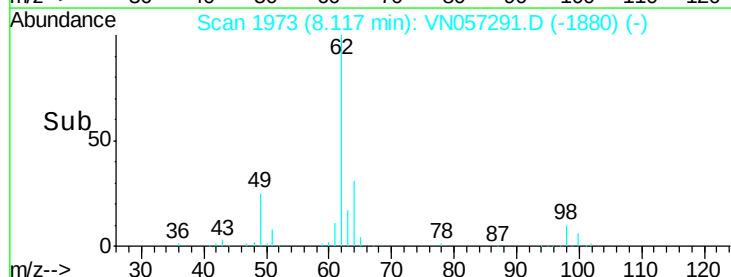
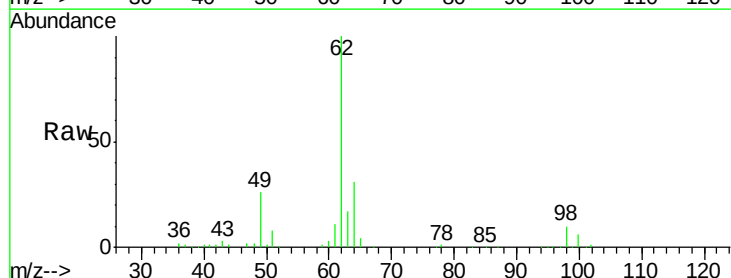
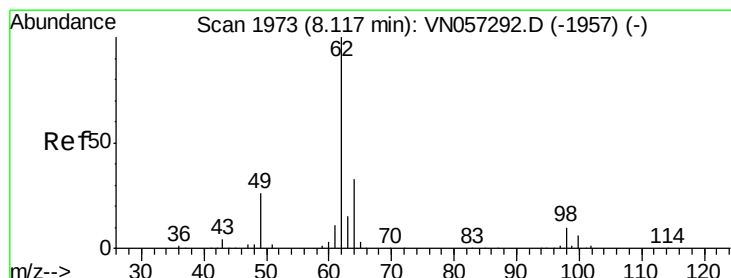
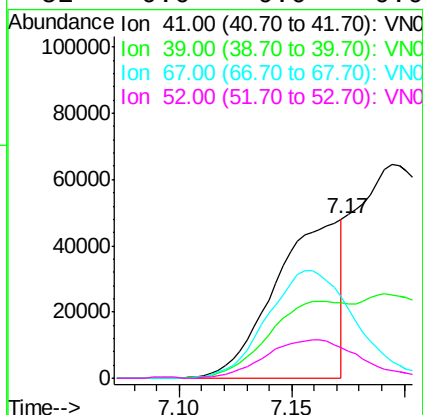
#41
Methacrylonitrile
Concen: 25.913 ug/l m
RT: 7.17 min Scan# 1679
Delta R.T. 0.01 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

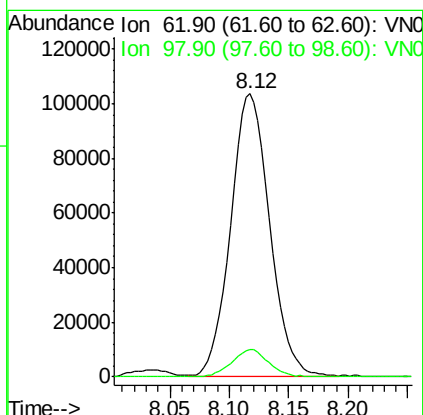
Manual Integrations
APPROVED

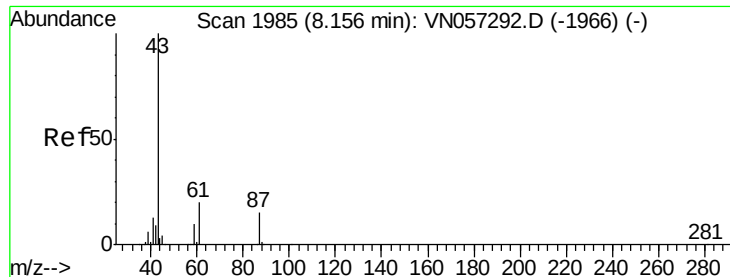
MMDadoda
8/19/2019 1:53:15 AM



#42
1,2-Dichloroethane
Concen: 21.525 ug/l
RT: 8.12 min Scan# 1973
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.4





#43

Isopropyl Acetate

Concen: 23.586 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

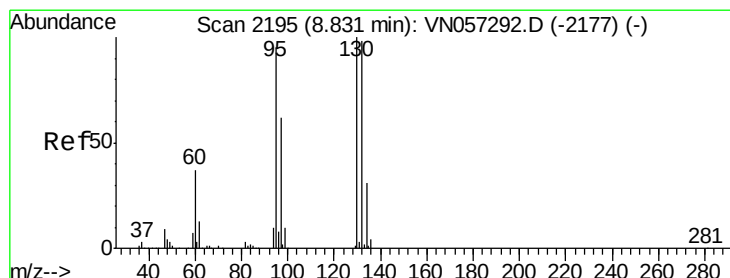
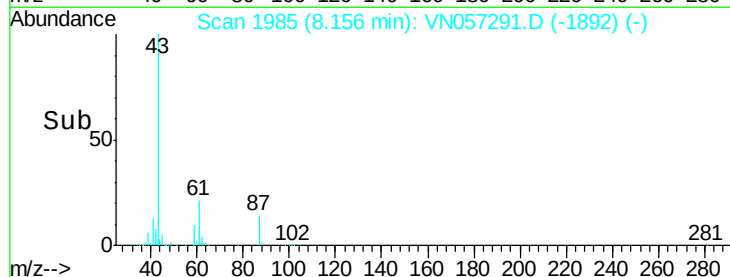
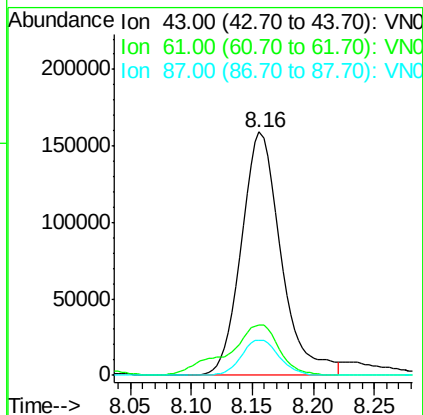
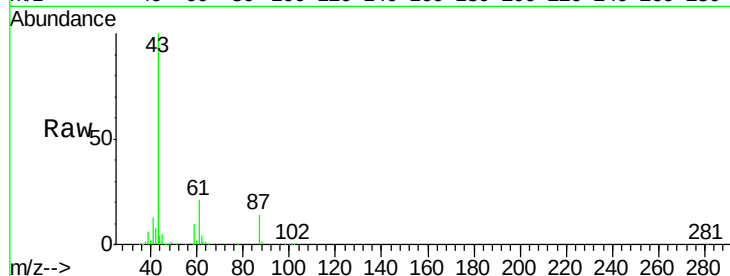
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	355643
Ion	Ratio	Lower	Upper
43	100		
61	27.0	21.6	32.4
87	13.9	11.4	17.0

Manual Integrations
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MMdadoda
8/19/2019 1:53:15 AM



#44

Trichloroethene

Concen: 19.939 ug/l

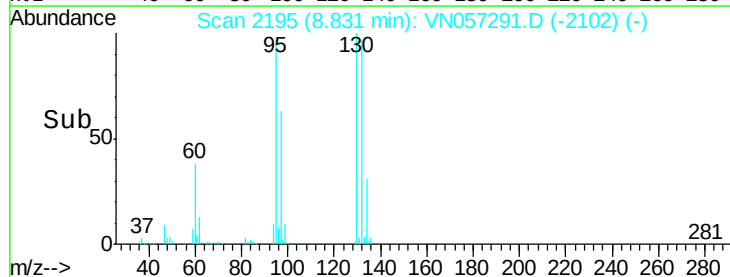
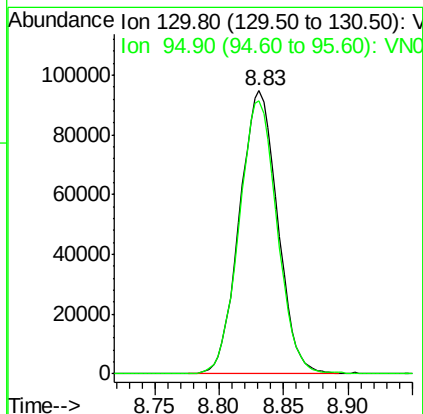
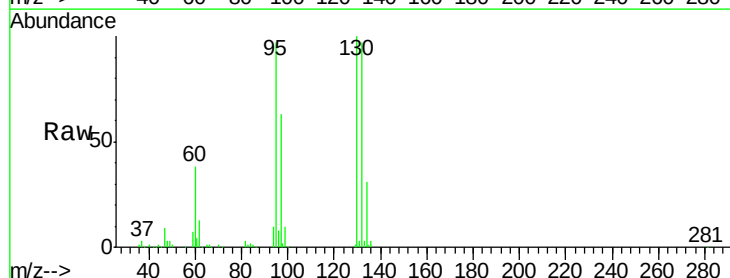
RT: 8.83 min Scan# 2195

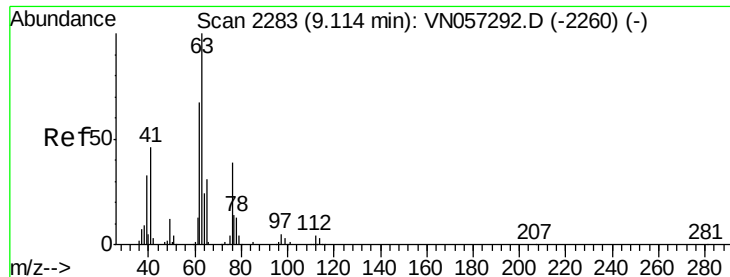
Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Tgt Ion:	130	Resp:	194623
Ion	Ratio	Lower	Upper
130	100		
95	96.5	0.0	189.2





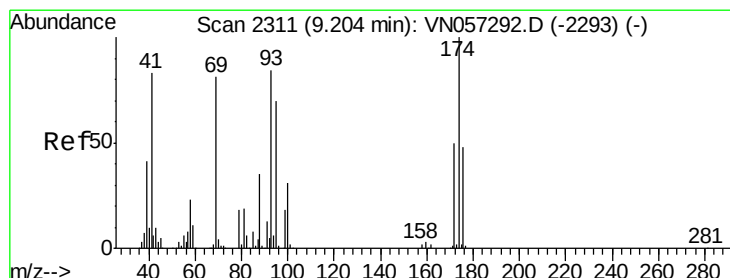
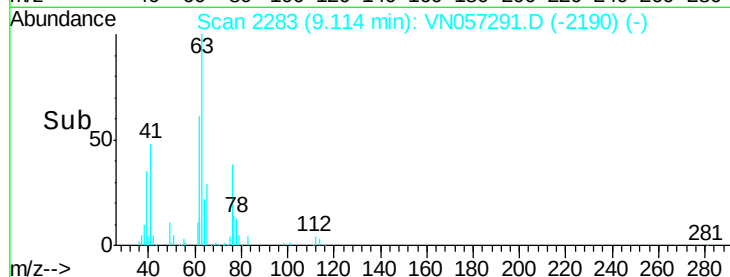
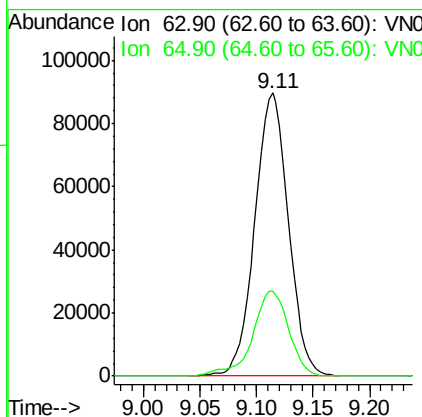
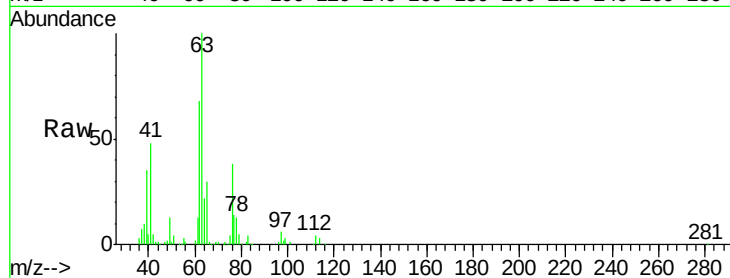
#45
 1,2-Dichloropropane
 Concen: 21.560 ug/l
 RT: 9.11 min Scan# 2283
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.0	24.8	37.2

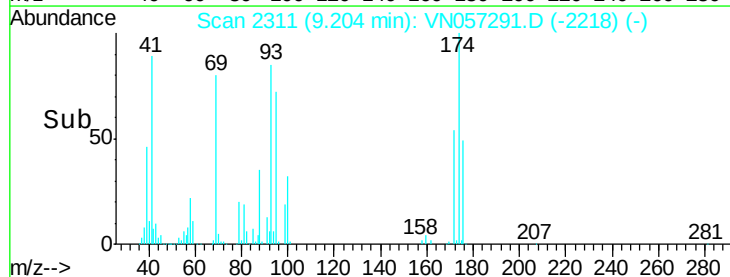
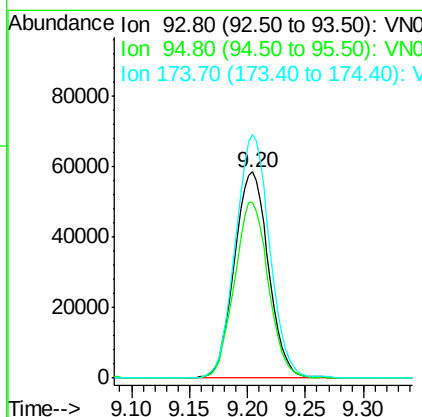
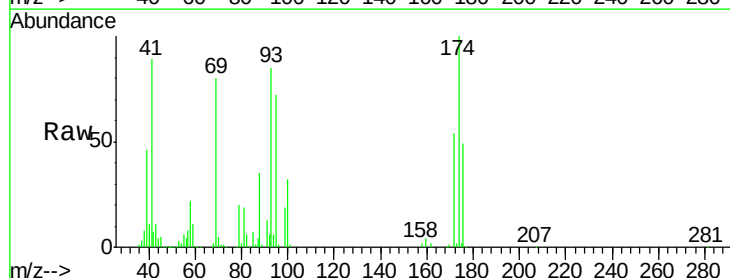
Manual Integrations
 APPROVED

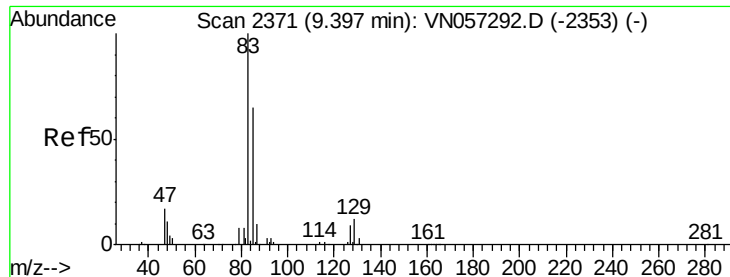
MMDadoda
 8/19/2019 1:53:15 AM



#46
 Dibromomethane
 Concen: 20.727 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.3	66.5	99.7
174	118.4	95.7	143.5





#47

Bromodichloromethane

Concen: 21.231 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

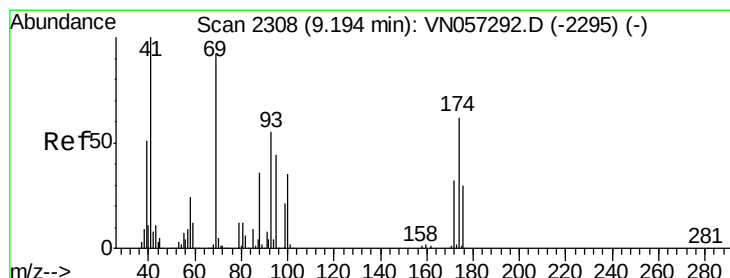
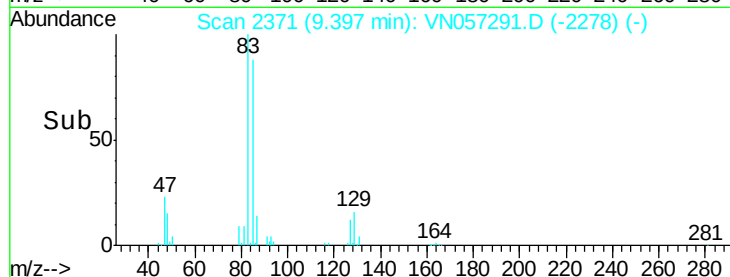
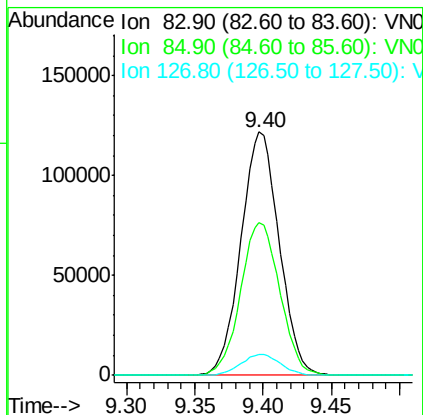
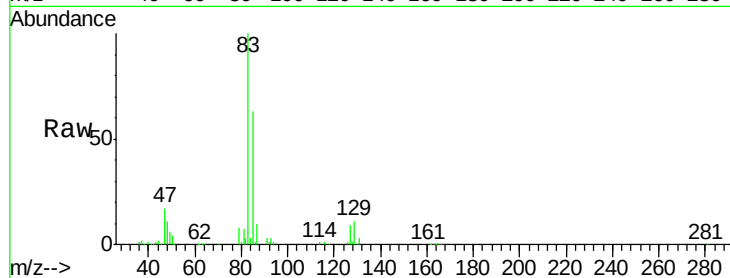
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	237073
Ion Ratio	Lower	Upper	
83	100		
85	62.9	51.9	77.9
127	8.7	7.2	10.8

Manual Integrations
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MMdadoda
8/19/2019 1:53:15 AM



#48

Methyl methacrylate

Concen: 21.984 ug/l

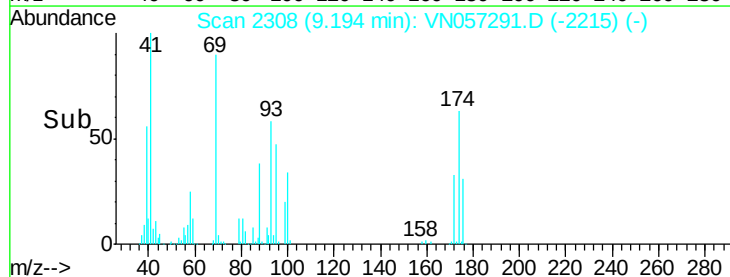
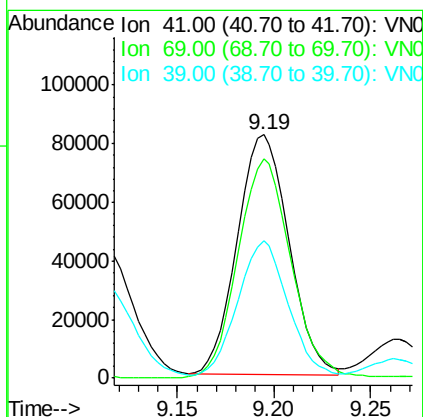
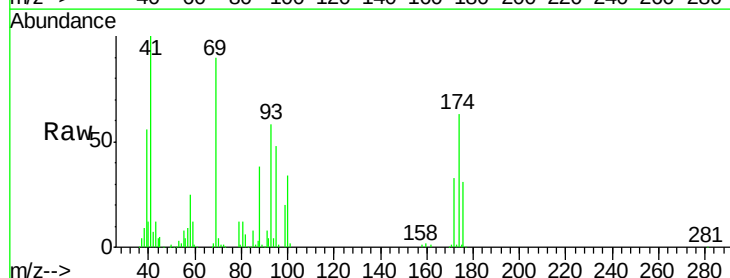
RT: 9.19 min Scan# 2308

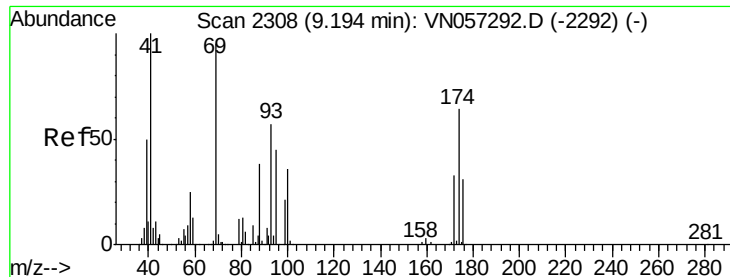
Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Tgt Ion:	41	Resp:	152016
Ion Ratio	Lower	Upper	
41	100		
69	94.8	75.9	113.9
39	56.4	42.3	63.5





#49

1,4-Dioxane

Concen: 419.564 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

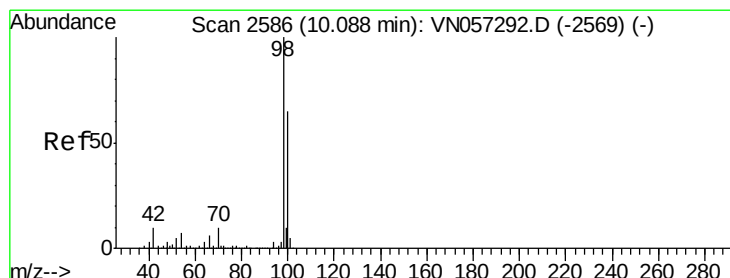
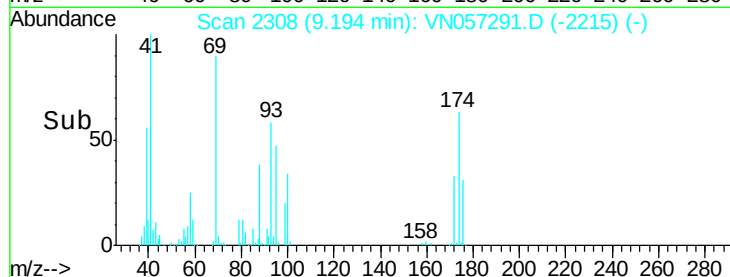
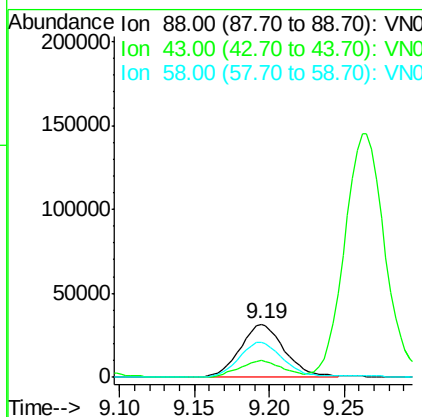
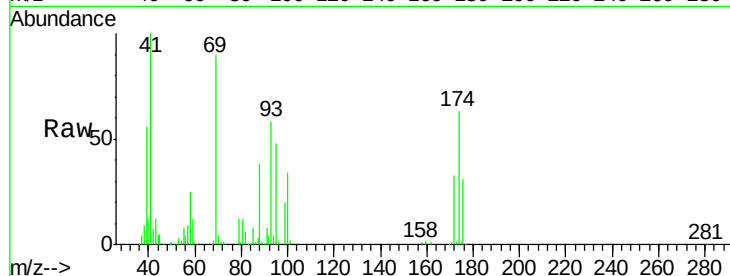
ClientSampleId :

VSTDIC020

Tot Ion:	88	Resp:	65163
Ion	Ratio	Lower	Upper
88	100		
43	29.0	22.9	34.3
58	66.3	52.7	79.1

Manual Integrations
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#50

Toluene-d8

Concen: 21.904 ug/l

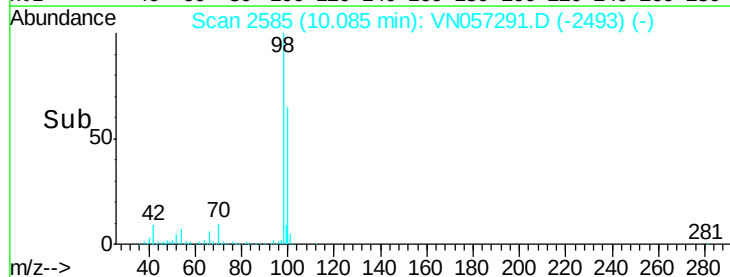
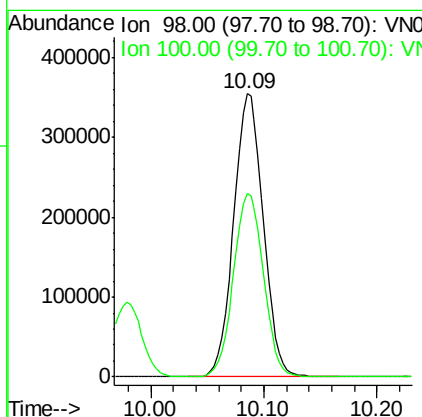
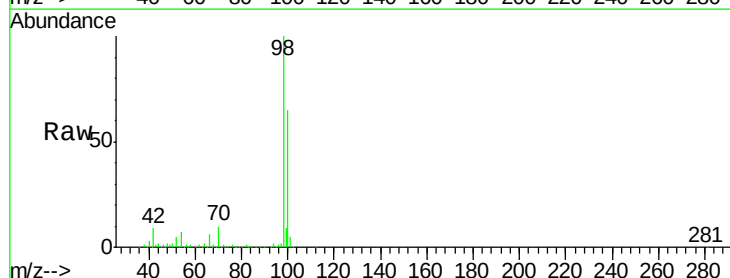
RT: 10.09 min Scan# 2585

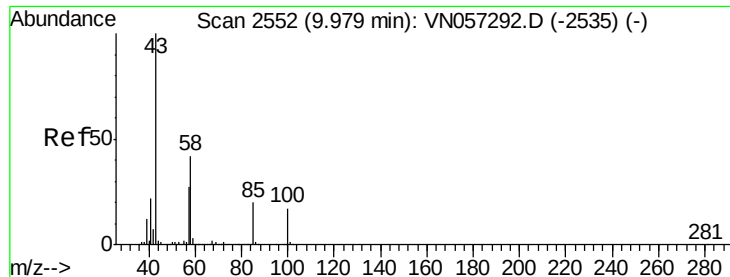
Delta R.T. -0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Tgt Ion:	98	Resp:	645424
Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 112.412 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 987139

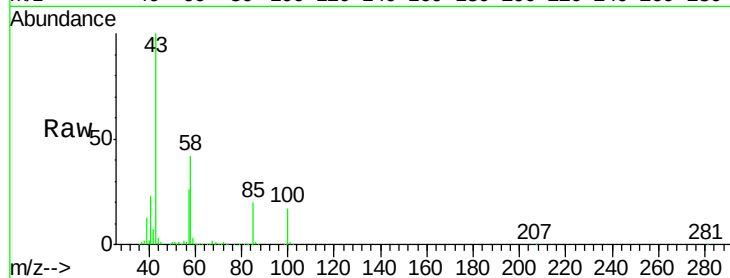
Ion Ratio Lower Upper

43 100

58 41.3 33.2 49.8

Manual Integrations
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MMdadoda
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Abundance Ion 43.00 (42.70 to 43.70): VN057292.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN057292.D (-2535) (-)

9.98

600000

500000

400000

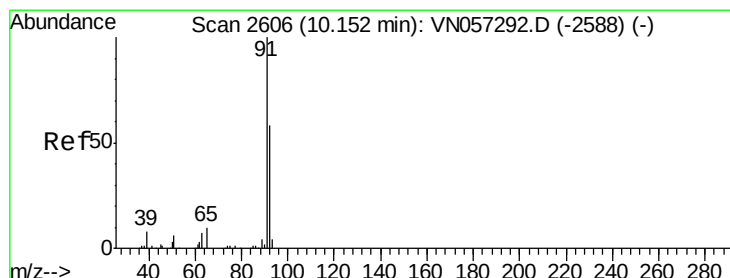
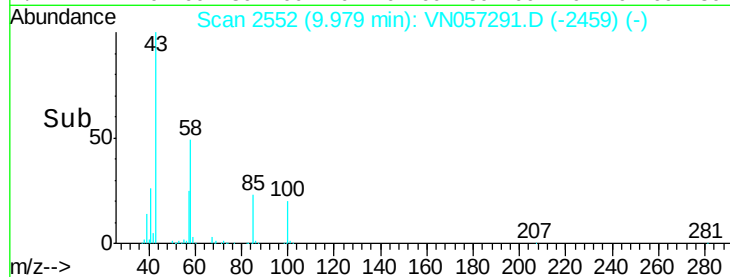
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 20.978 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN057291.D

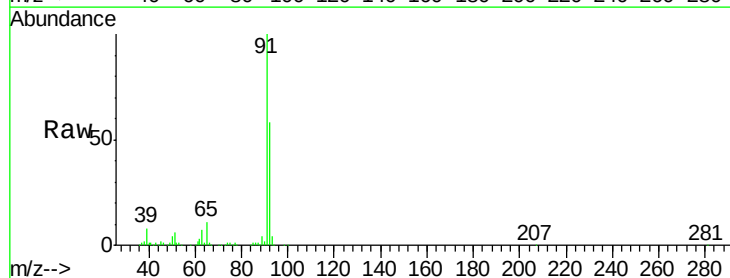
Acq: 14 Aug 2019 17:03

Tgt Ion: 92 Resp: 440839

Ion Ratio Lower Upper

92 100

91 174.2 138.9 208.3



Abundance Ion 92.00 (91.70 to 92.70): VN057292.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN057292.D (-2588) (-)

10.15

400000

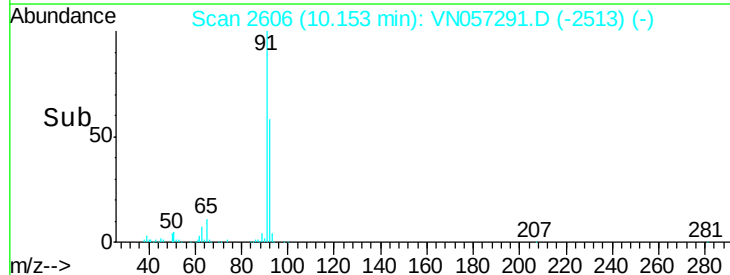
300000

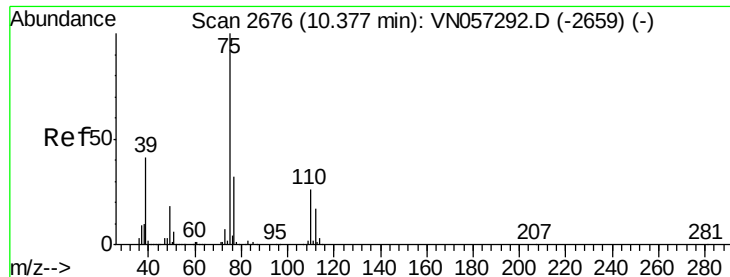
200000

100000

0

Time-->





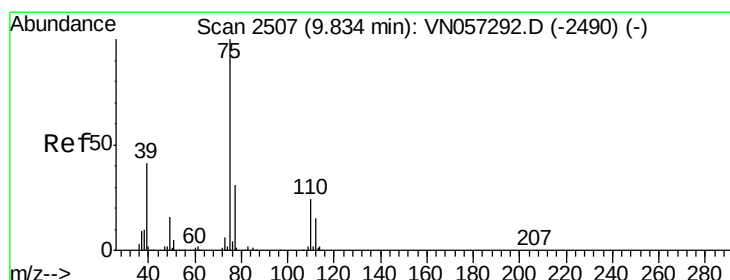
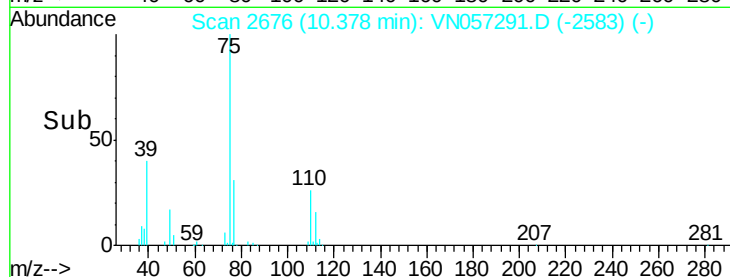
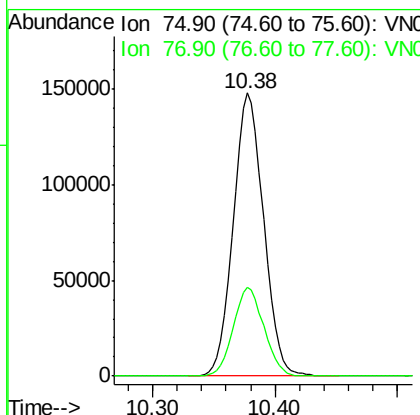
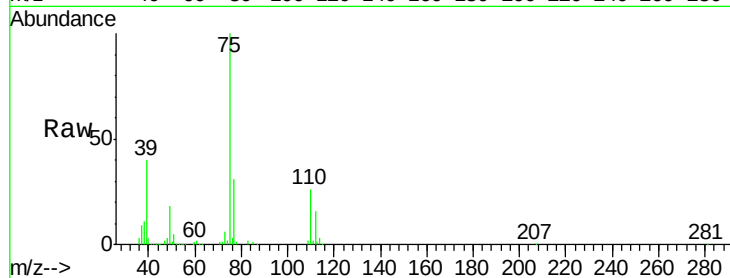
#53
t-1,3-Dichloropropene
Concen: 21.366 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.5	38.3

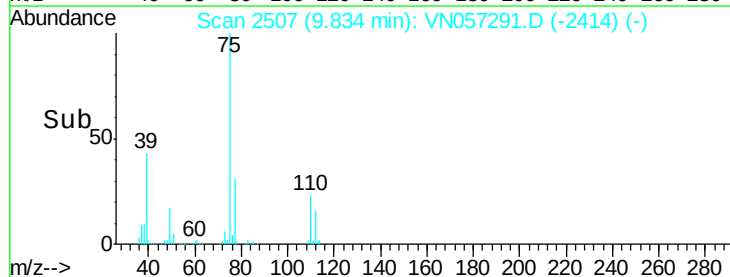
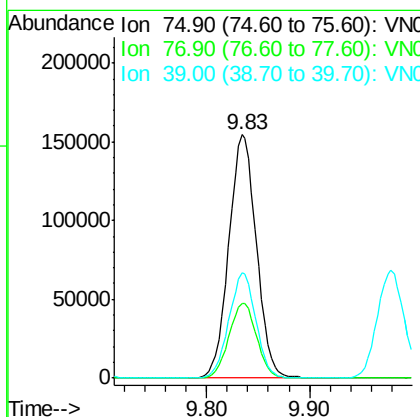
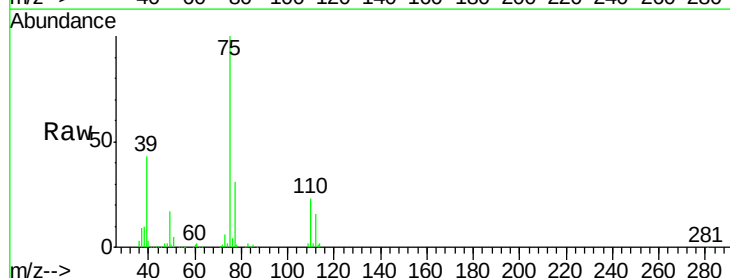
Manual Integrations
APPROVED

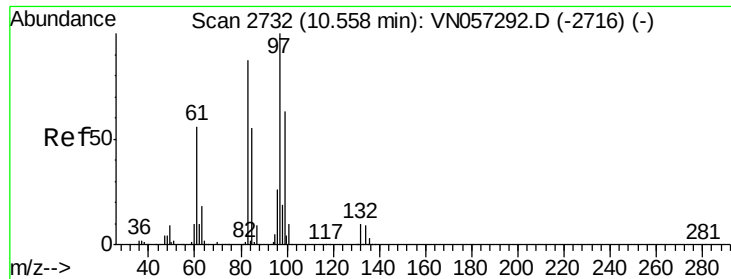
MMDadoda
8/19/2019 1:53:15 AM



#54
cis-1,3-Dichloropropene
Concen: 21.372 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.9	37.3
39	43.2	32.7	49.1





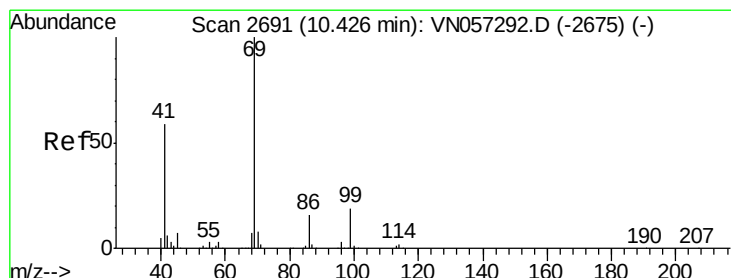
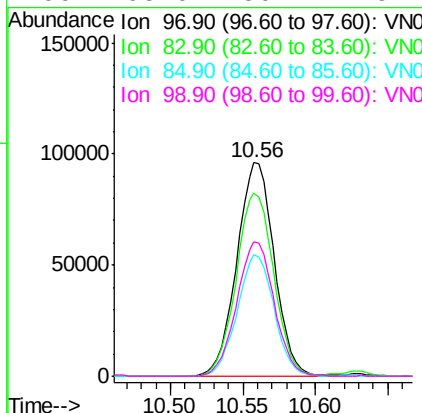
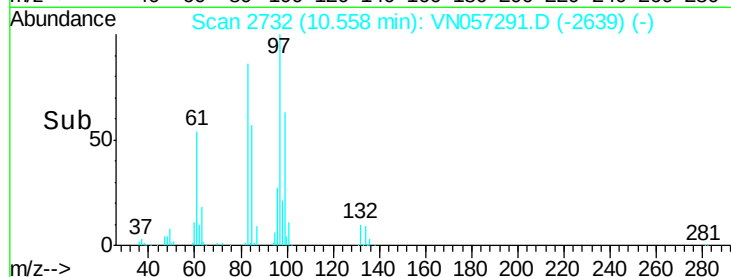
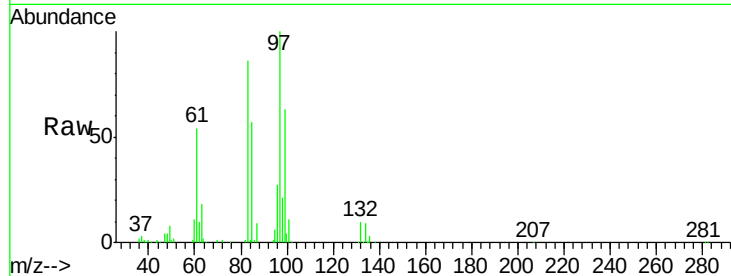
#55
 1,1,2-Trichloroethane
 Concen: 20.933 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		172663		
83	86.0	69.8	104.8		
85	56.9	44.1	66.1		
99	63.0	50.2	75.2		

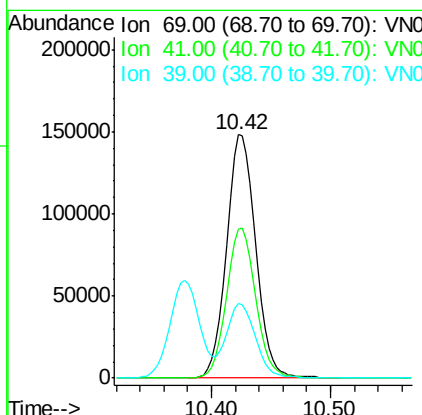
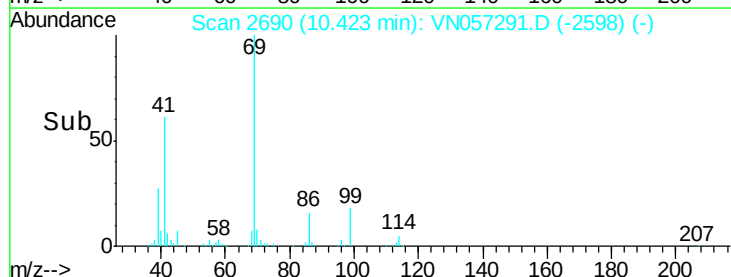
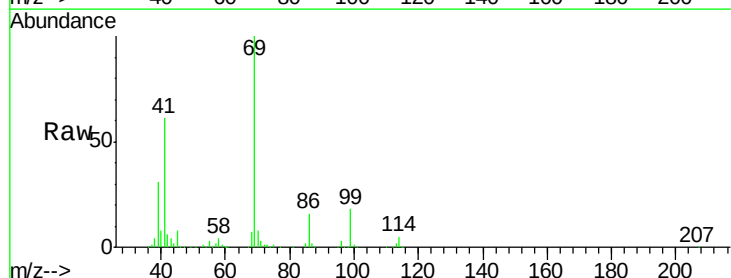
Manual Integrations
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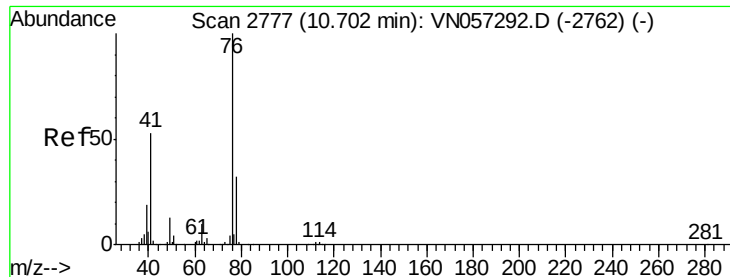
MMdadoda
 8/19/2019 1:53:15 AM



#56
 Ethyl methacrylate
 Concen: 21.636 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. -0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		251888		
41	60.6	48.2	72.2		
39	30.2	23.4	35.0		





#57

1,3-Dichloropropane

Concen: 21.274 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 289725

Ion Ratio Lower Upper

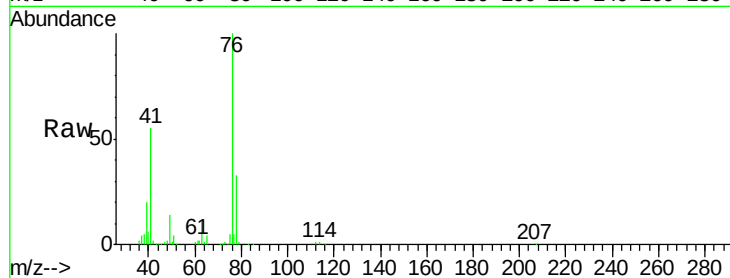
76 100

78 32.3 25.6 38.4

Manual Integrations
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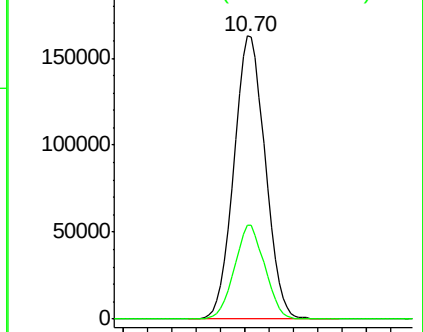
MMdadoda

8/19/2019 1:53:15 AM

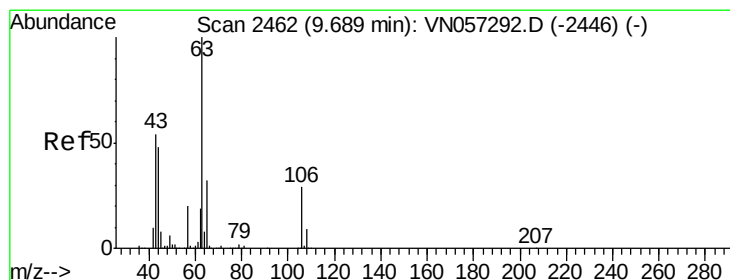
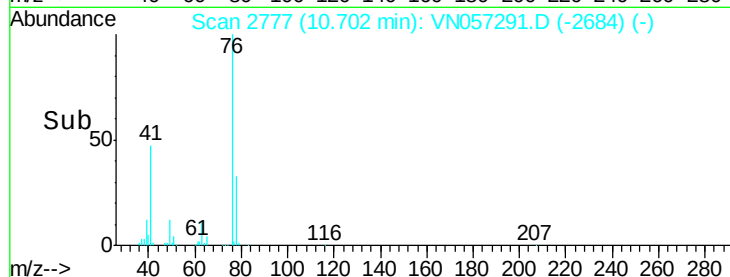


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 104.382 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN057291.D

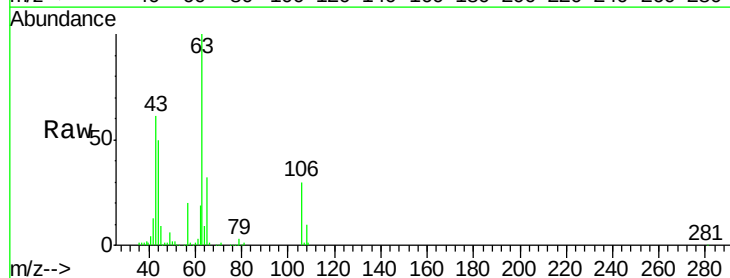
Acq: 14 Aug 2019 17:03

Tgt Ion: 63 Resp: 305615

Ion Ratio Lower Upper

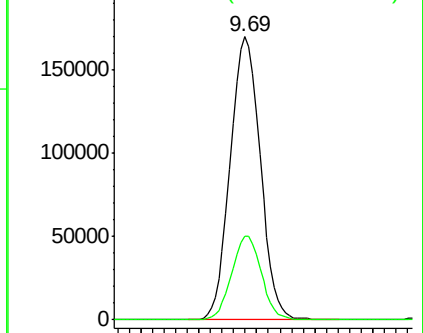
63 100

106 29.1 23.2 34.8

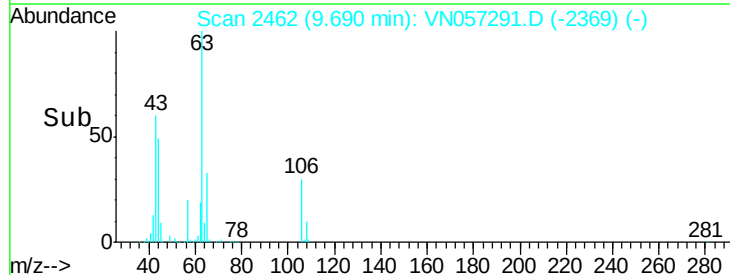


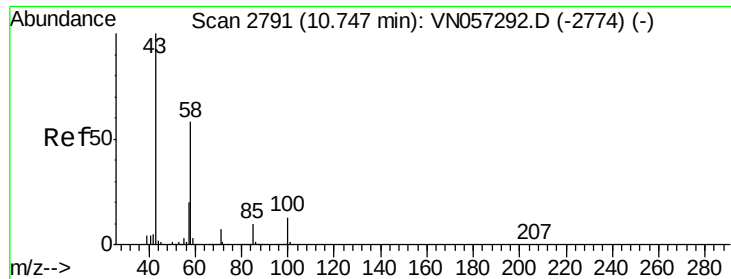
Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V



Time--> 9.60 9.65 9.70 9.75 9.80





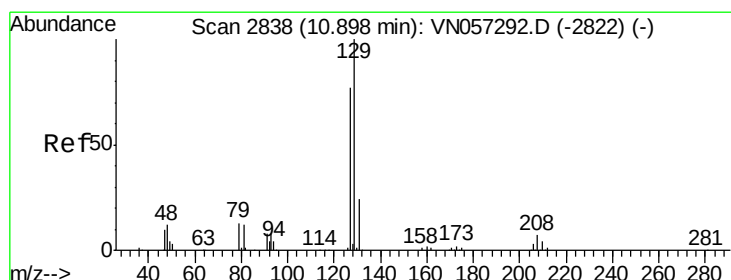
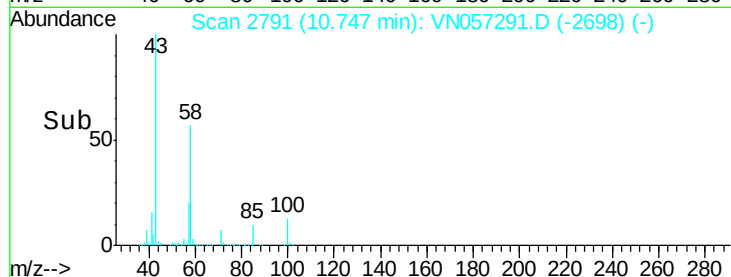
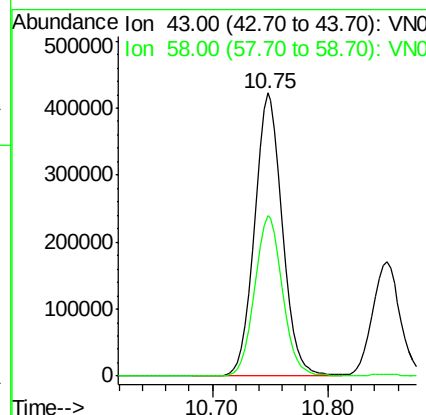
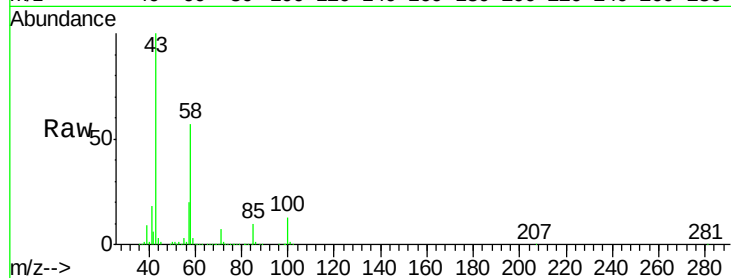
#59
2-Hexanone
Concen: 113.260 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	57.1	28.6	85.9

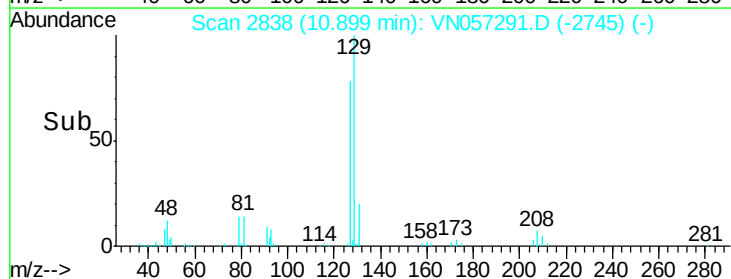
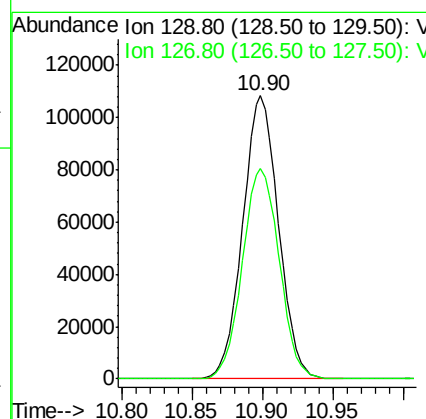
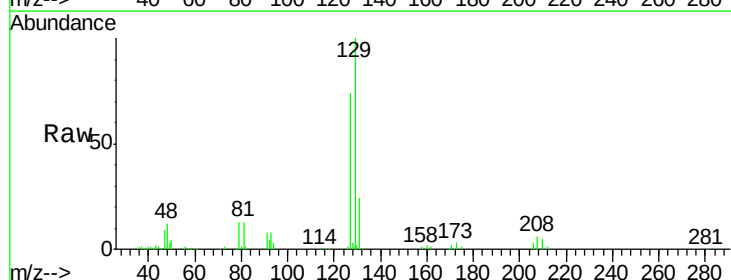
Manual Integrations
APPROVED

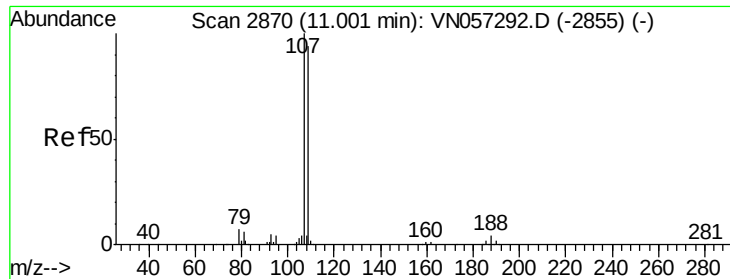
MMdadoda
8/19/2019 1:53:15 AM



#60
Dibromochloromethane
Concen: 20.803 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.7	39.0	116.9





#61

1,2-Dibromoethane

Concen: 21.216 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 107 Resp: 181830

Ion Ratio Lower Upper

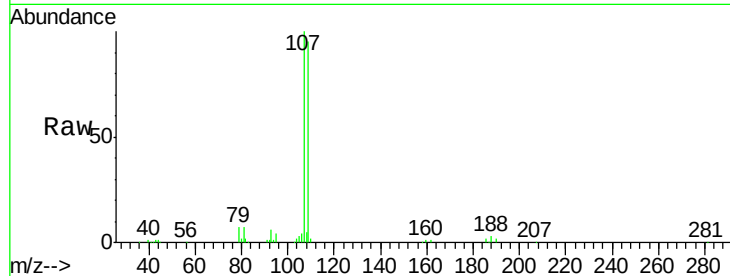
107 100

109 94.3 75.7 113.5

Manual Integrations
APPROVED

MMdadoda

8/19/2019 1:53:15 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

120000

100000

80000

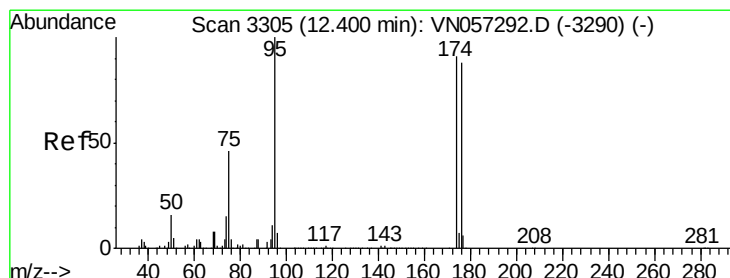
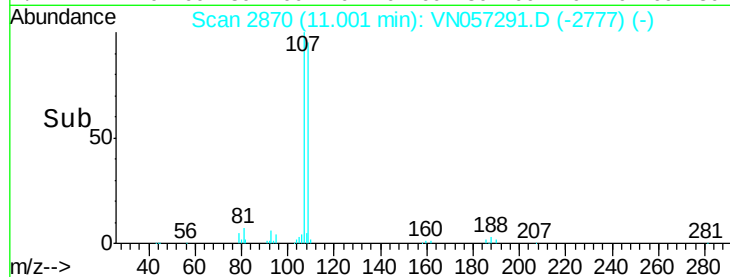
60000

40000

20000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 20.238 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

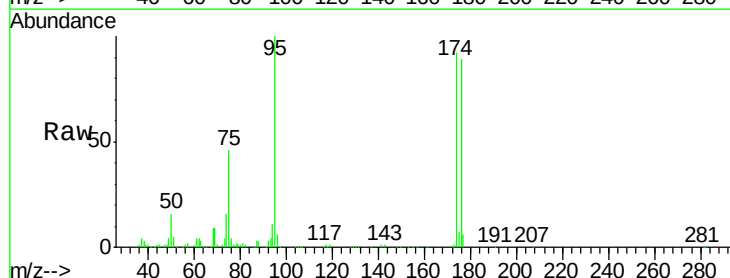
Tgt Ion: 95 Resp: 205613

Ion Ratio Lower Upper

95 100

174 92.8 0.0 185.0

176 90.2 0.0 181.0



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

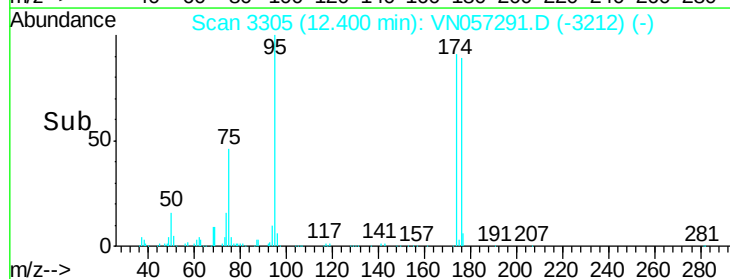
150000

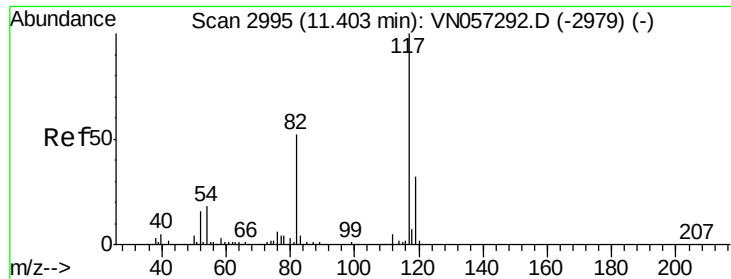
100000

50000

0

Time--> 12.35 12.40 12.45





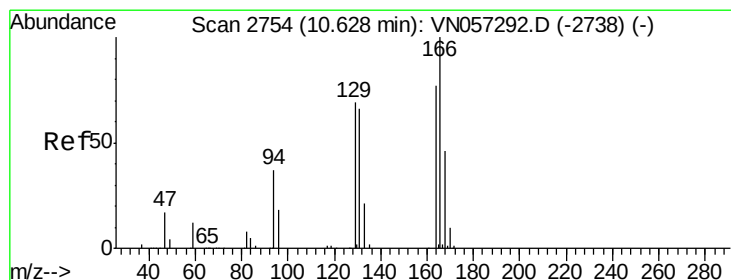
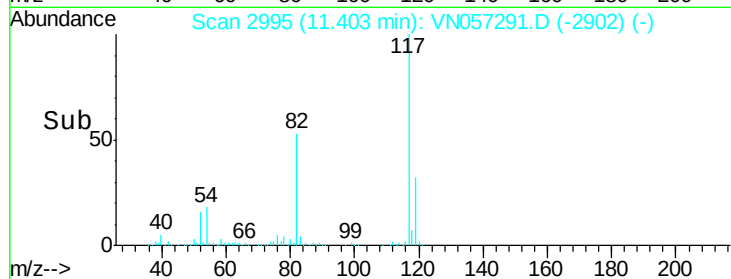
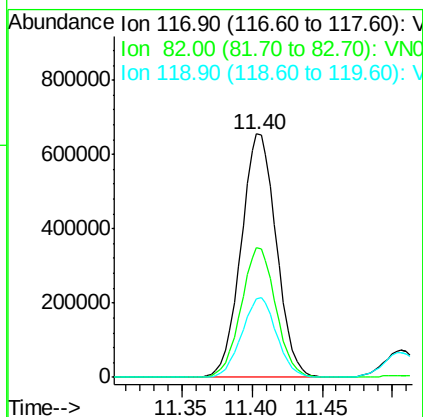
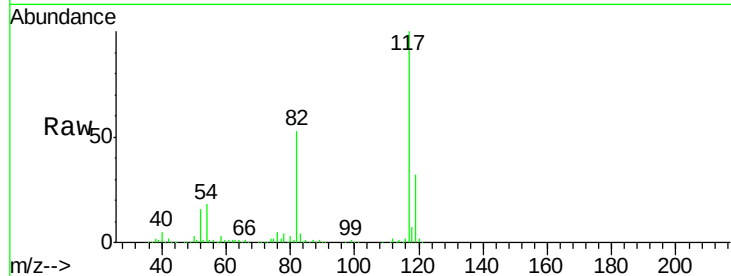
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	41.2	61.8
119	32.0	25.8	38.8

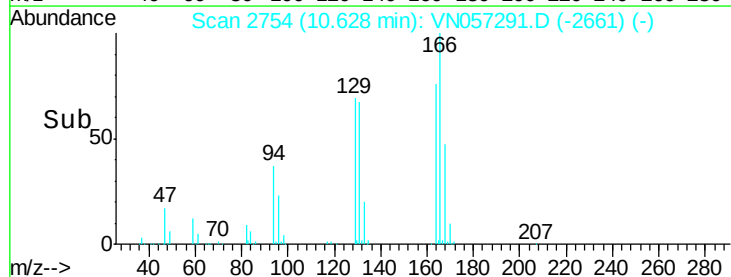
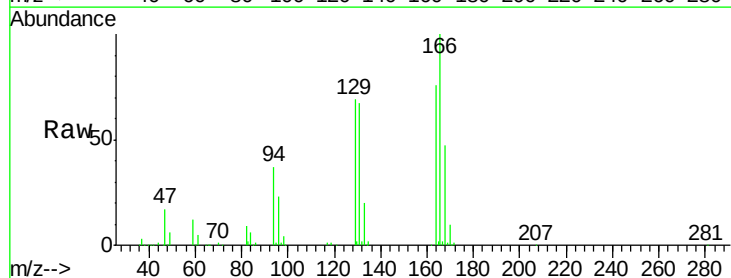
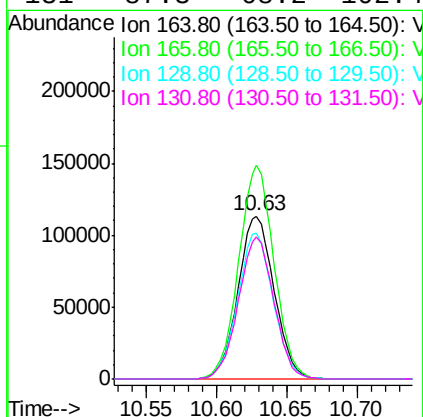
Manual Integrations
APPROVED

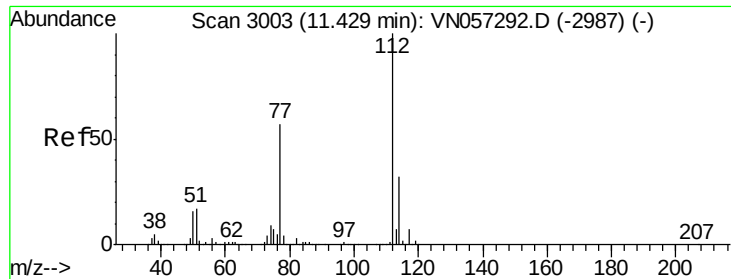
MMdadoda
8/19/2019 1:53:15 AM



#64
Tetrachloroethene
Concen: 20.207 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.9	103.5	155.3
129	89.7	71.2	106.8
131	87.3	68.2	102.4





#65

Chlorobenzene

Concen: 20.284 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 472630

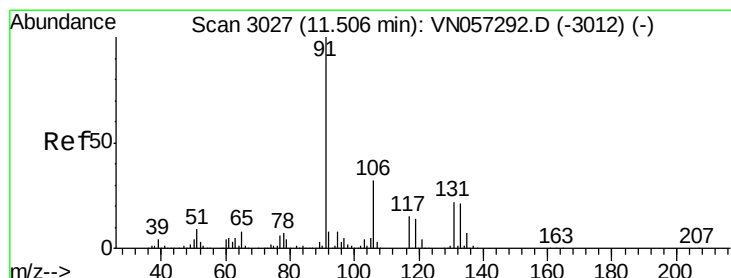
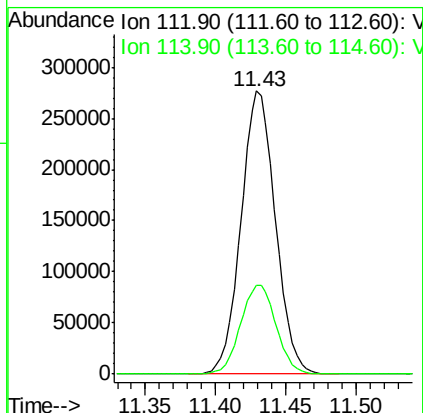
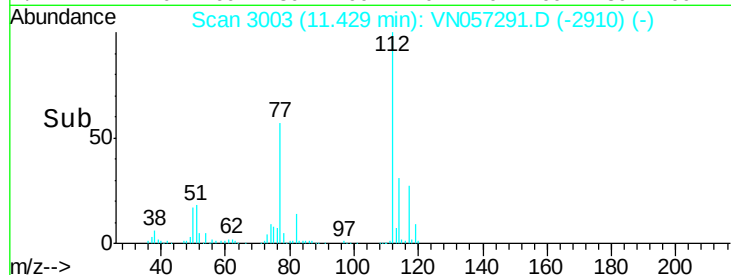
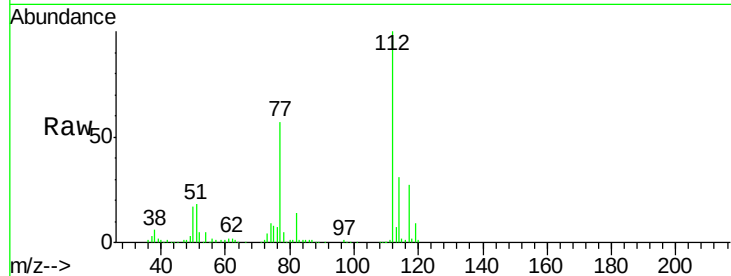
Ion Ratio Lower Upper

112 100

114 31.4 25.7 38.5

Manual Integrations
APPROVED

MMdadoda
8/19/2019 1:53:15 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 20.566 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

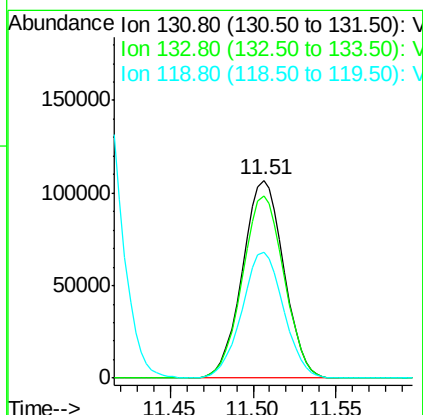
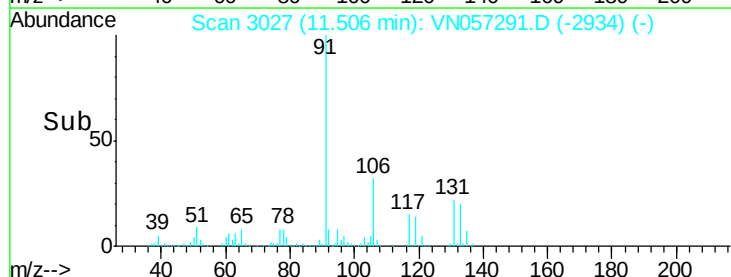
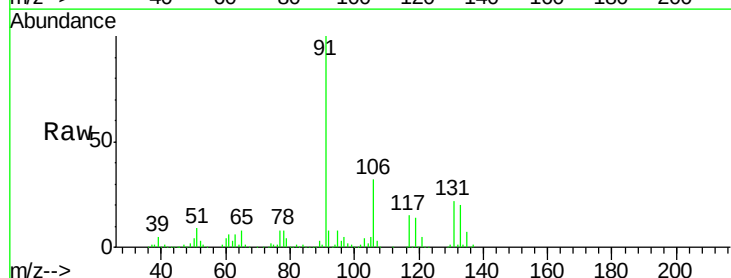
Tgt Ion:131 Resp: 185121

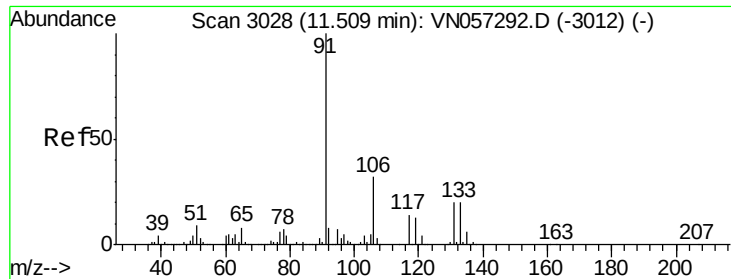
Ion Ratio Lower Upper

131 100

133 93.3 47.6 142.8

119 64.3 32.0 96.2





#67

Ethyl Benzene

Concen: 20.850 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 831558

Ion Ratio Lower Upper

91 100

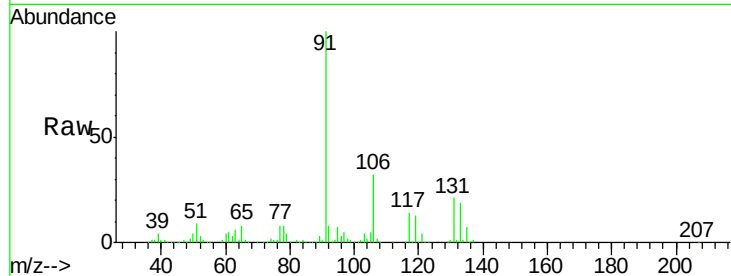
106 31.8 25.5 38.3

Manual Integrations

APPROVED

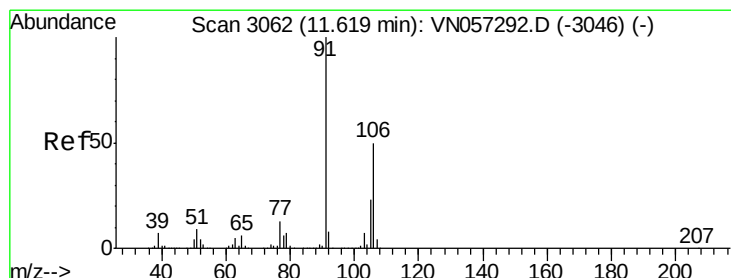
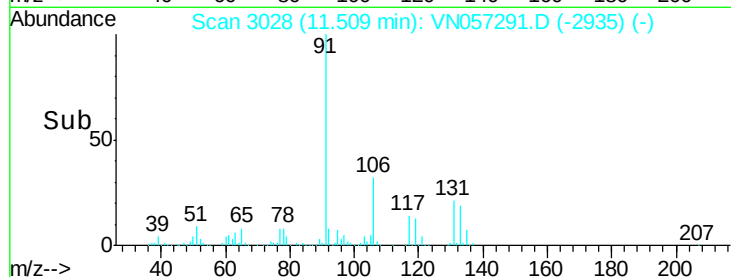
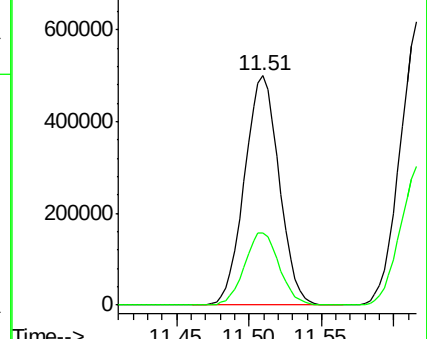
MMdadoda

8/19/2019 1:53:15 AM



Abundance Ion 91.00 (90.70 to 91.70): VN057291.D (-2935) (-)

Ion 106.00 (105.70 to 106.70): VN057291.D (-2935) (-)



#68

m/p-Xylenes

Concen: 41.358 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN057291.D

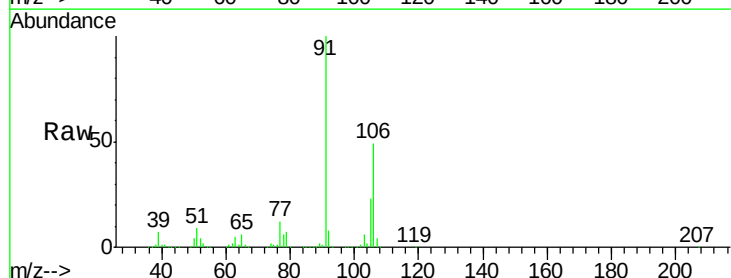
Acq: 14 Aug 2019 17:03

Tgt Ion: 106 Resp: 616170

Ion Ratio Lower Upper

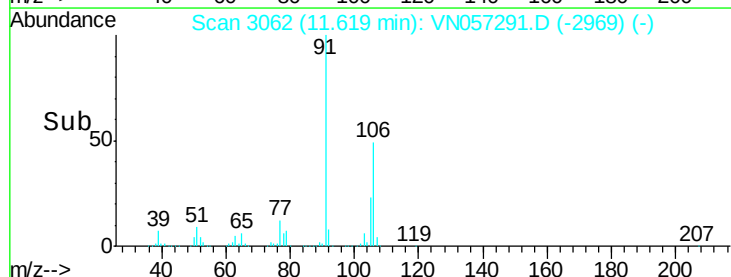
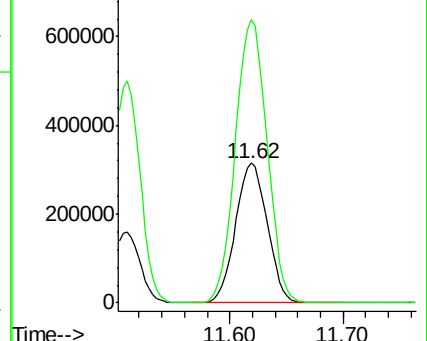
106 100

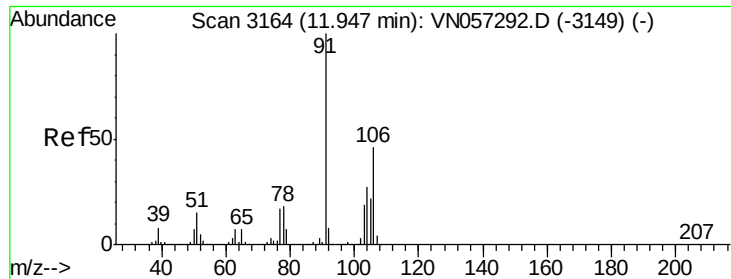
91 202.4 161.5 242.3



Abundance Ion 106.00 (105.70 to 106.70): VN057291.D (-2969) (-)

Ion 91.00 (90.70 to 91.70): VN057291.D (-2969) (-)





#69

o-Xylene

Concen: 20.880 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:106 Resp: 304980

Ion Ratio Lower Upper

106 100

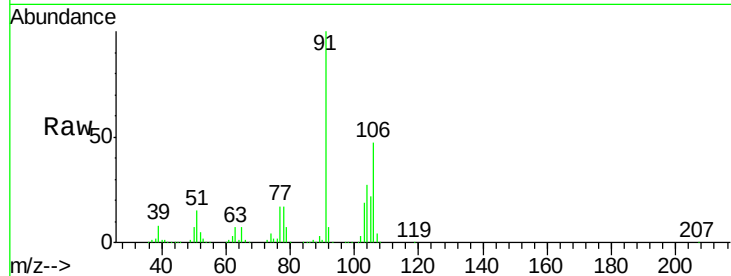
91 211.4 106.3 319.0

Manual Integrations

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MMdadoda

8/19/2019 1:53:15 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

400000

300000

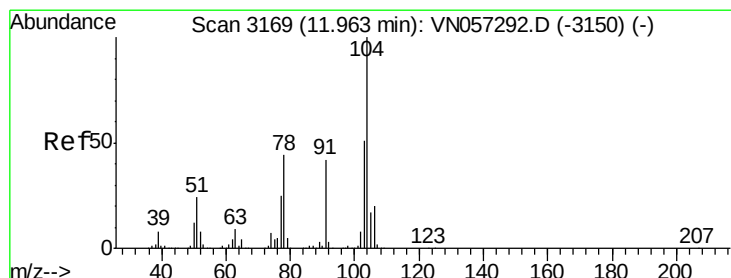
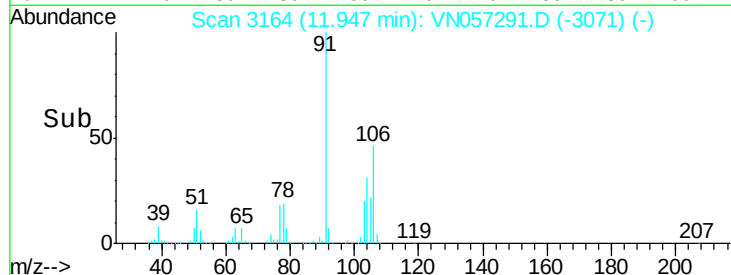
200000

100000

0

11.95

Time--> 11.85 11.90 11.95 12.00



#70

Styrene

Concen: 20.903 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

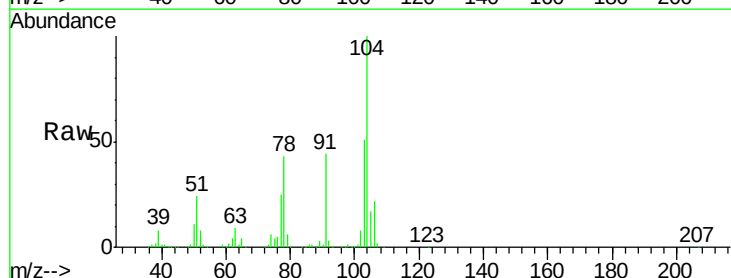
Tgt Ion:104 Resp: 471976

Ion Ratio Lower Upper

104 100

78 49.4 39.2 58.8

103 56.0 44.6 66.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V

300000

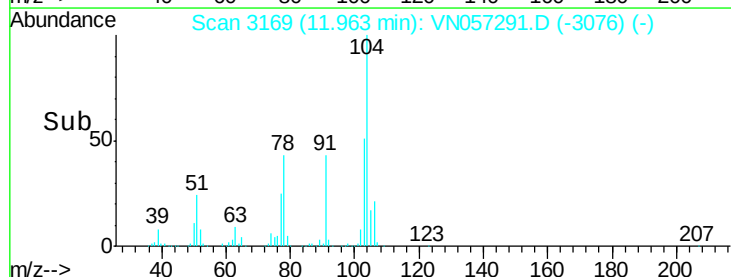
200000

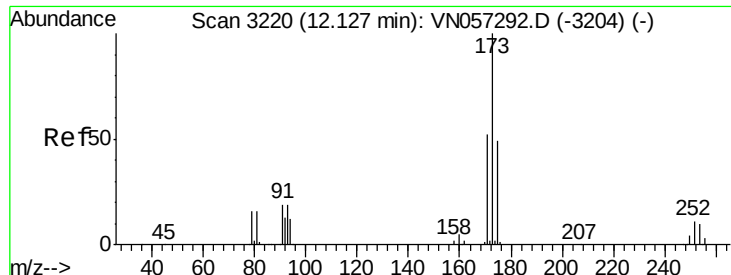
100000

0

11.96

Time--> 11.90 11.95 12.00





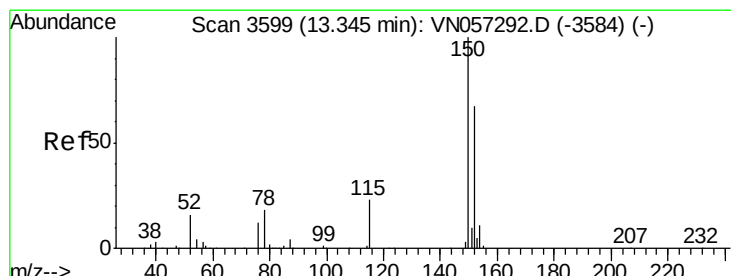
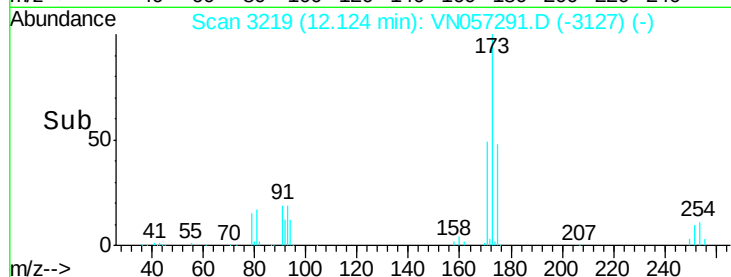
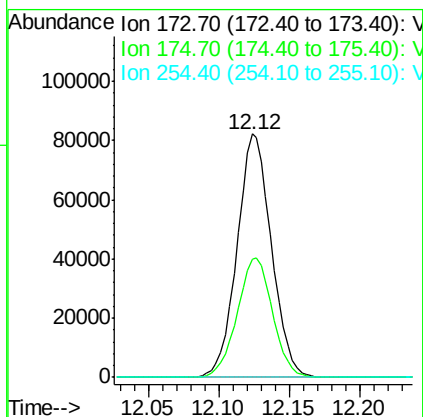
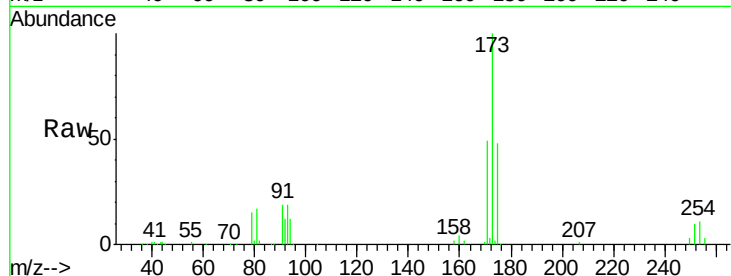
#71
Bromoform
Concen: 20.243 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.3	24.2	72.6
254	0.0	0.2	0.2

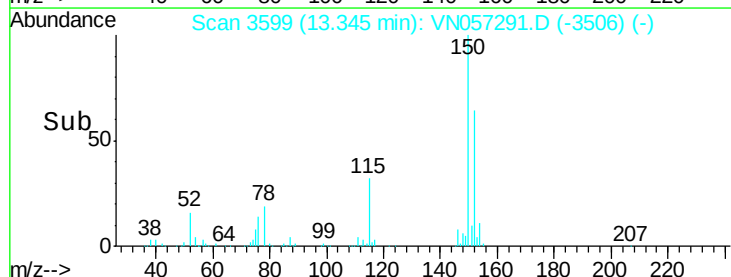
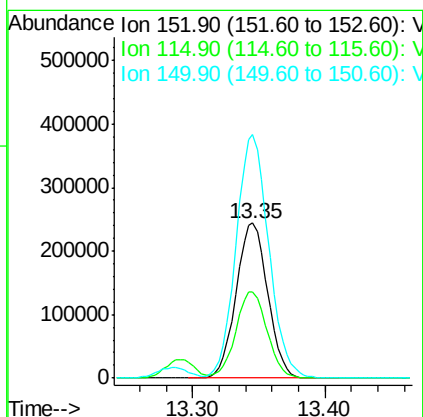
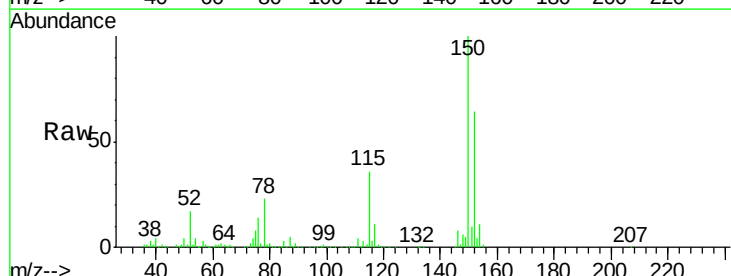
Manual Integrations
APPROVED

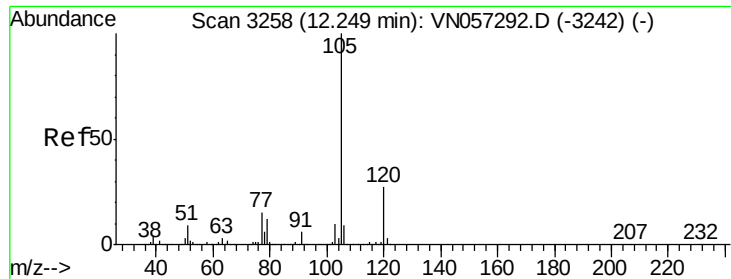
MMdadoda
8/19/2019 1:53:15 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	27.3	81.9
150	162.9	0.0	344.4





#73

Isopropylbenzene

Concen: 22.048 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 822962

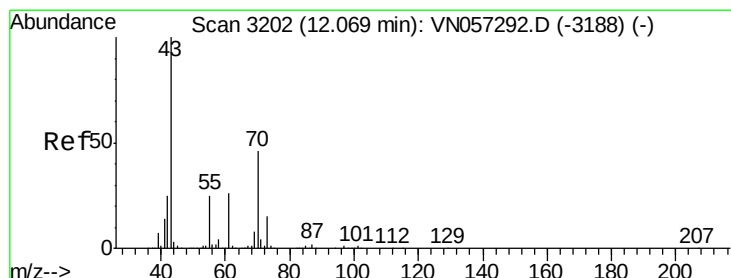
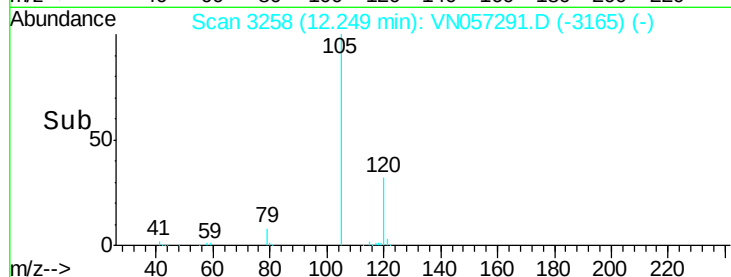
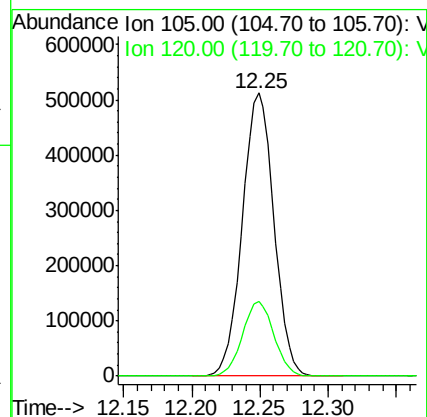
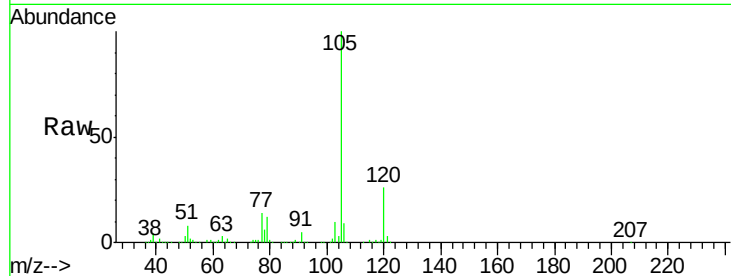
Ion Ratio Lower Upper

105 100

120 26.4 13.2 39.6

Manual Integrations
APPROVED

MMdadoda
8/19/2019 1:53:15 AM



#74

N-ethyl acetate

Concen: 22.398 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Tgt Ion: 43 Resp: 243949

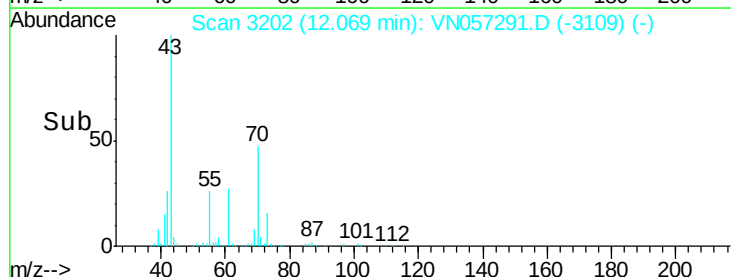
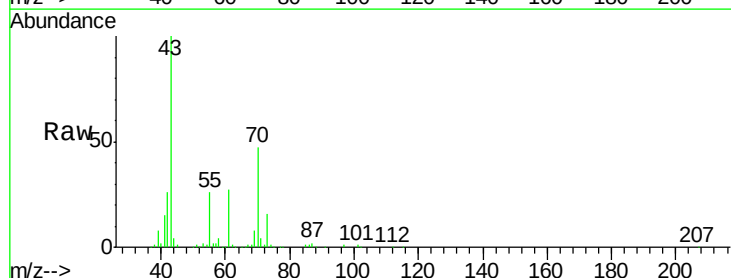
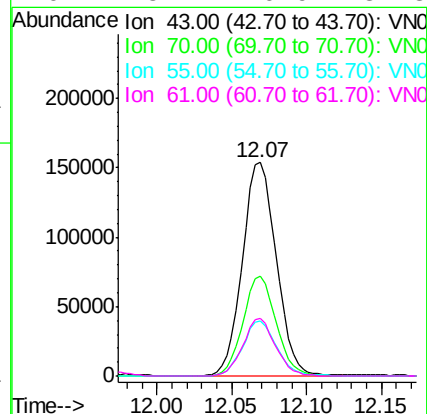
Ion Ratio Lower Upper

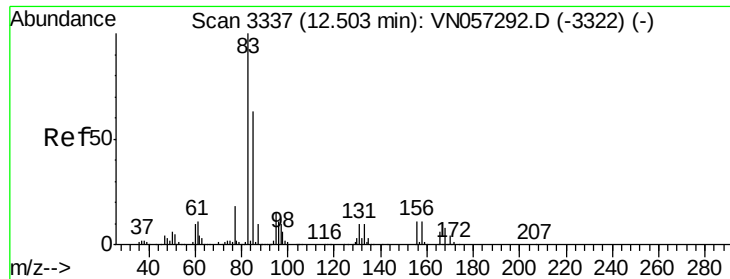
43 100

70 45.7 36.2 54.2

55 25.8 20.1 30.1

61 25.7 20.9 31.3





#75

1,1,2,2-Tetrachloroethane

Concen: 21.799 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

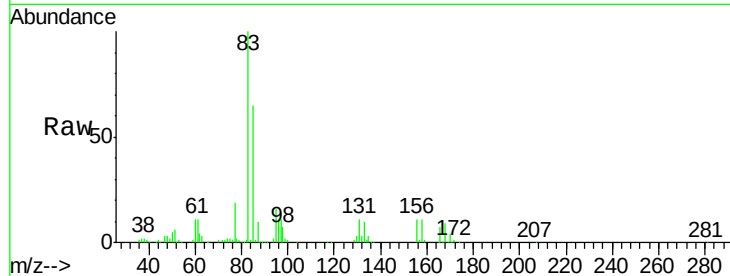
ClientSampleId :

VSTDIC020

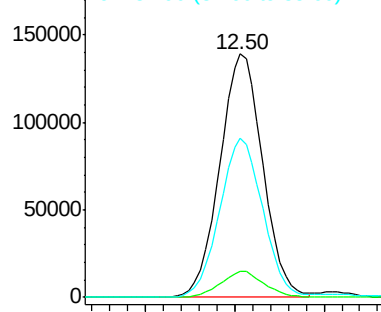
Tot Ion:	83	Resp:	233560
Ion Ratio	Lower	Upper	
83	100		
131	10.9	5.4	16.2
85	65.7	32.3	96.9

Manual Integrations
APPROVED

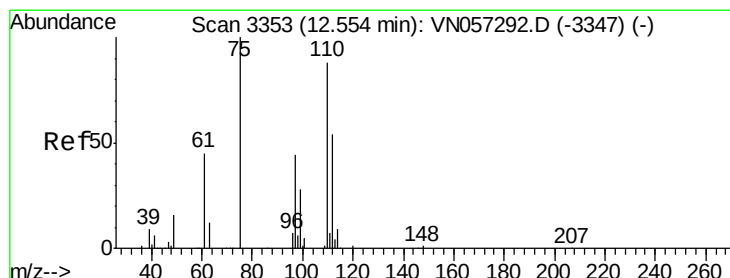
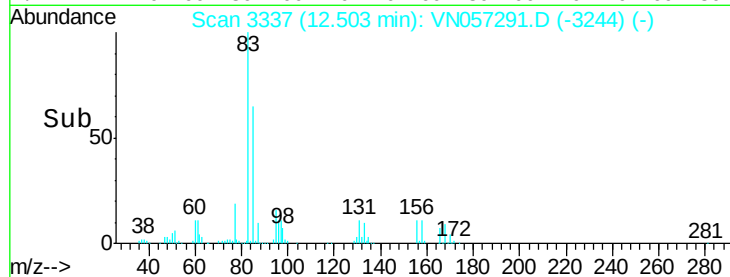
MMDadoda
8/19/2019 1:53:15 AM



Abundance Ion 82.90 (82.60 to 83.60): VN057291.D (-3322) (-)



Time-->



#76

1,2,3-Trichloropropane

Concen: 22.595 ug/l m

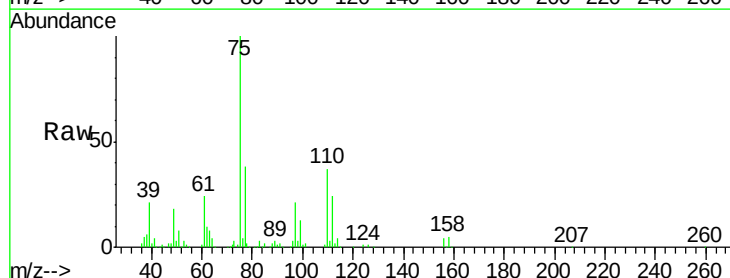
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

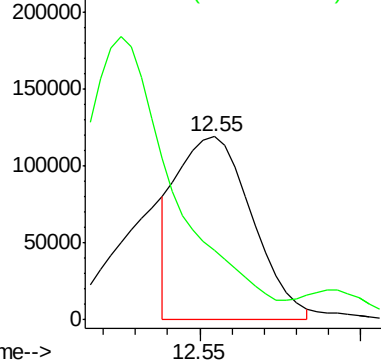
Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

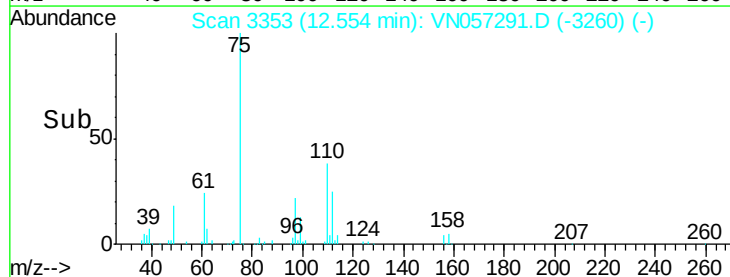
Tgt Ion:	75	Resp:	192367
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0

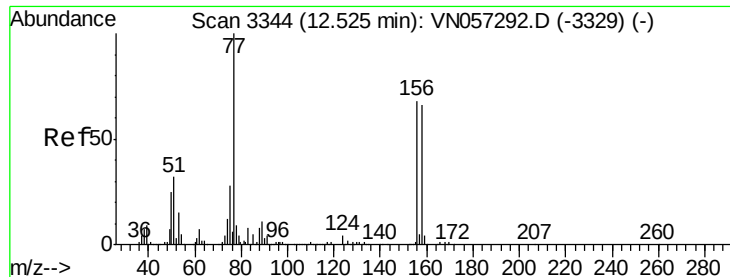


Abundance Ion 74.90 (74.60 to 75.60): VN057291.D (-3353) (-)



Time-->





#77

Bromobenzene

Concen: 20.149 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

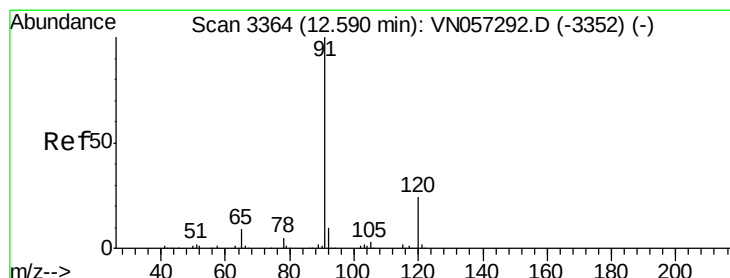
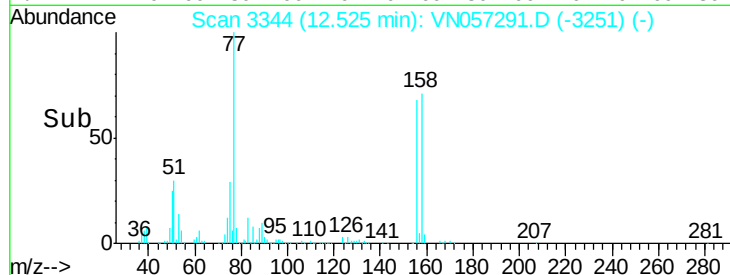
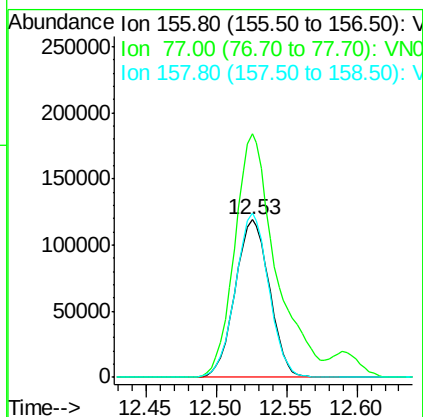
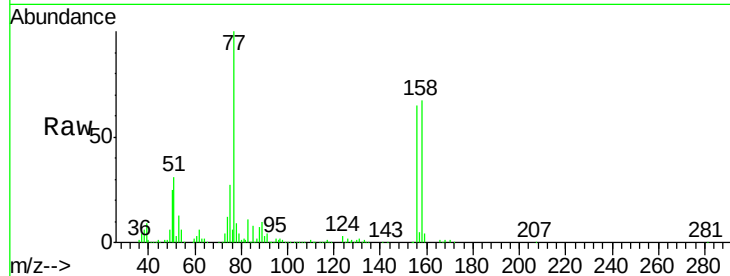
ClientSampleId :

VSTDIC020

Tot Ion:	156	Resp:	204713
Ion Ratio	Lower	Upper	
156	100		
77	183.9	89.8	269.6
158	101.2	49.3	147.8

Manual Integrations
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MMdadoda
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#78

n-propylbenzene

Concen: 21.177 ug/l

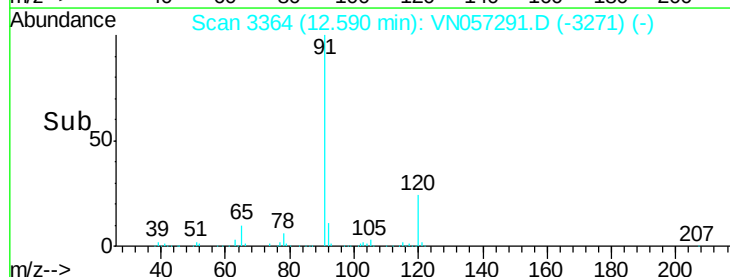
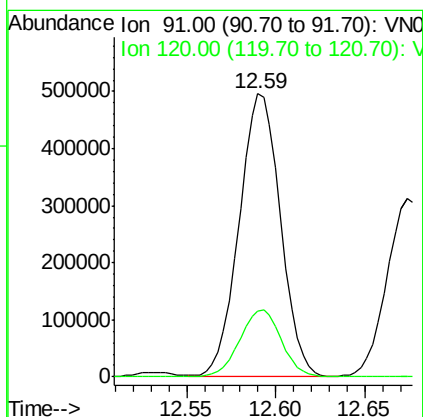
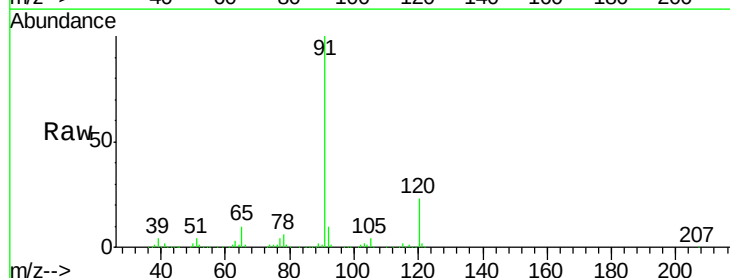
RT: 12.59 min Scan# 3364

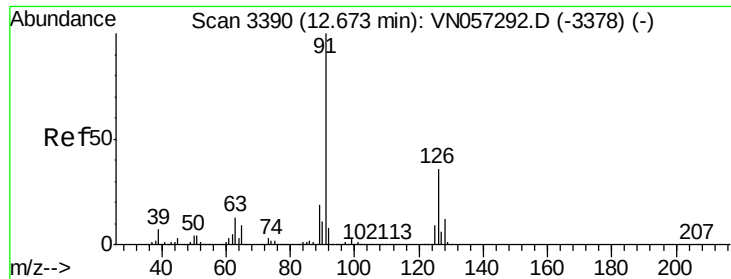
Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Tgt Ion:	91	Resp:	795894
Ion Ratio	Lower	Upper	
91	100		
120	23.9	11.9	35.7





#79

2-Chlorotoluene

Concen: 21.492 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 516302

Ion Ratio Lower Upper

91 100

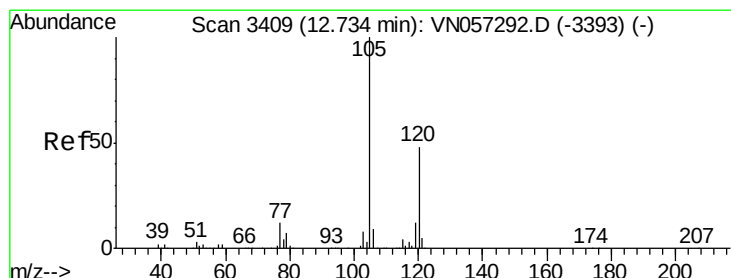
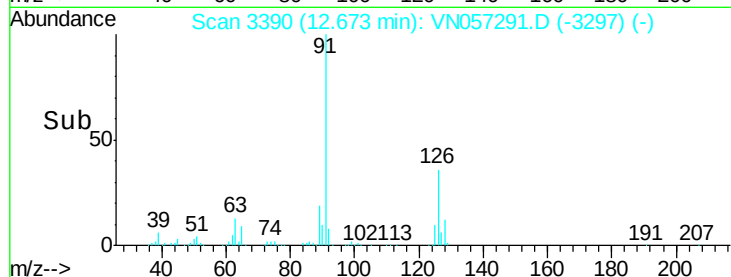
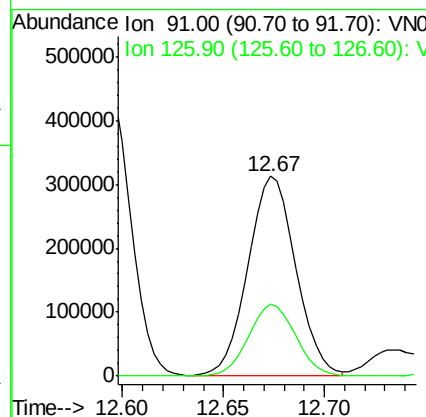
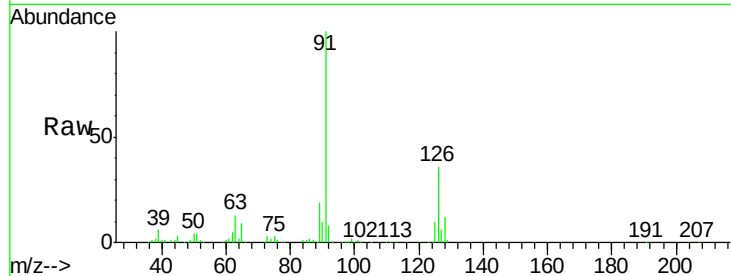
126 35.8 18.1 54.1

Manual Integrations

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MMdadoda

8/19/2019 1:53:15 AM



#80

1,3,5-Trimethylbenzene

Concen: 21.842 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057291.D

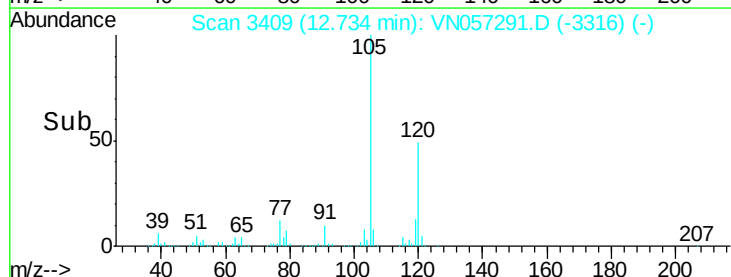
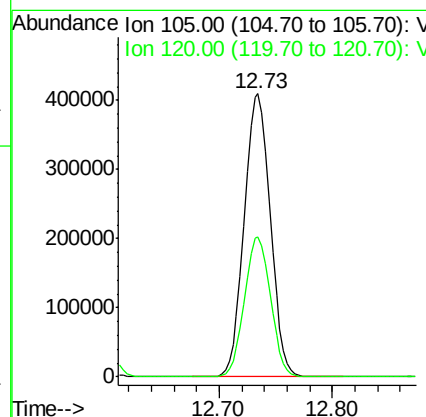
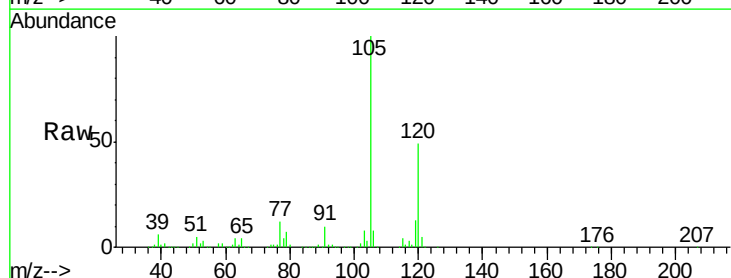
Acq: 14 Aug 2019 17:03

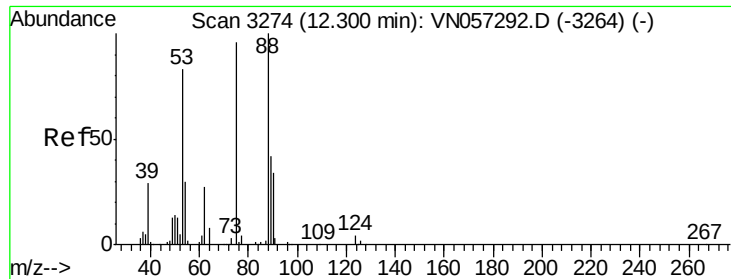
Tgt Ion: 105 Resp: 661090

Ion Ratio Lower Upper

105 100

120 49.3 24.3 73.0





#81

trans-1,4-Dichloro-2-butene

Concen: 23.782 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

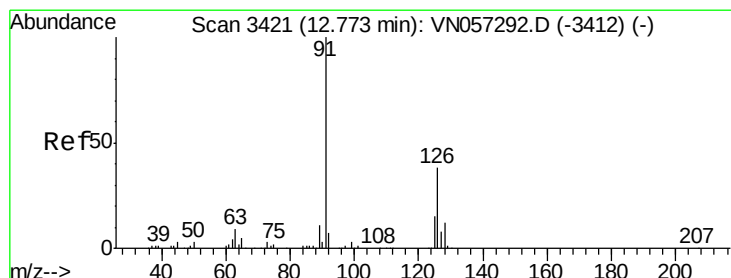
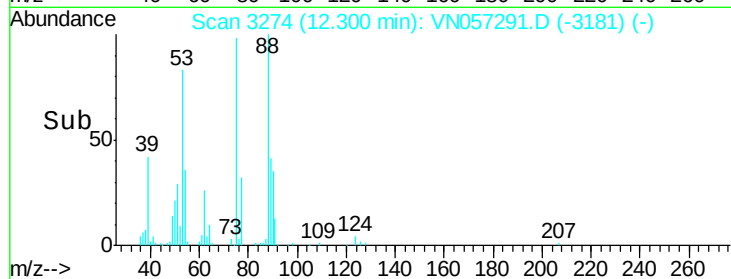
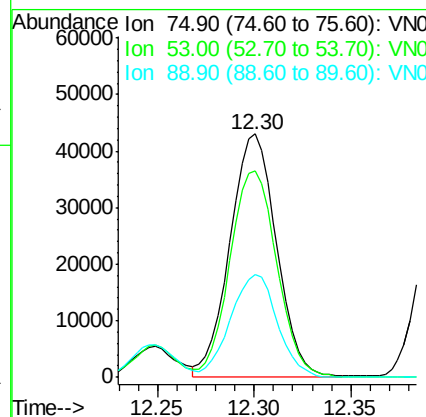
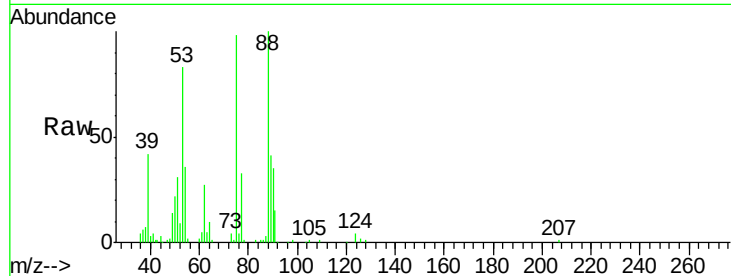
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	72160
Ion	Ratio	Lower	Upper
75	100		
53	85.8	67.9	101.9
89	42.4	36.2	54.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.902 ug/l

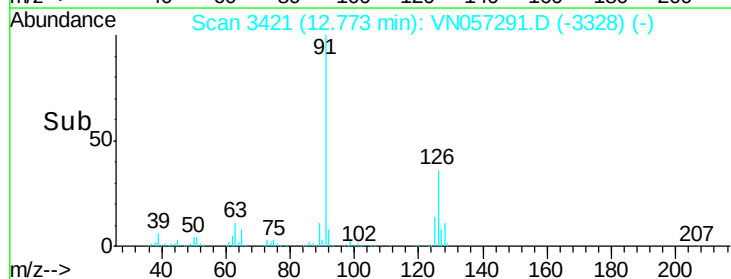
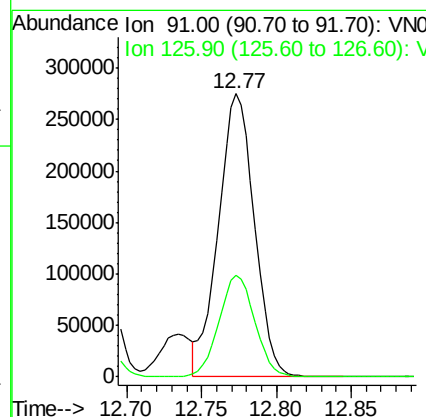
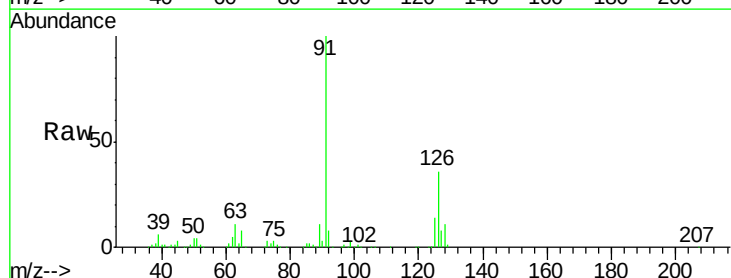
RT: 12.77 min Scan# 3421

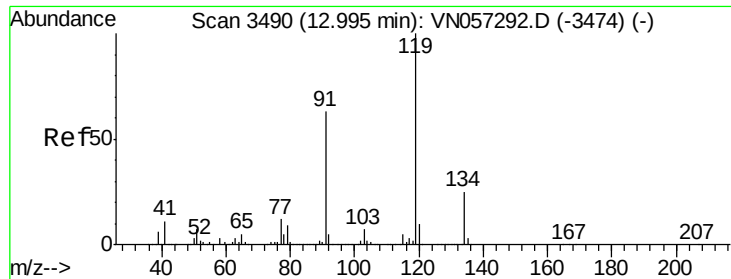
Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Tgt Ion:	91	Resp:	459634
Ion	Ratio	Lower	Upper
91	100		
126	35.8	17.3	51.7





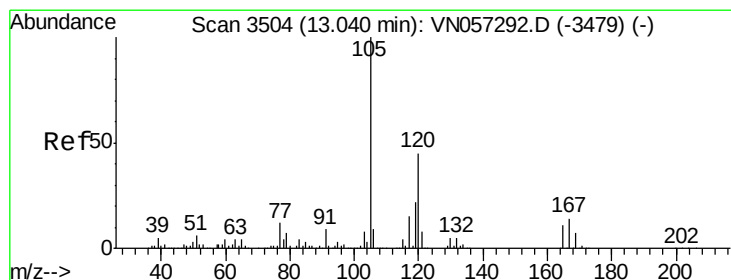
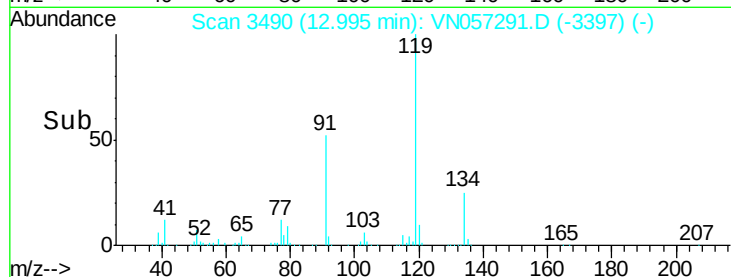
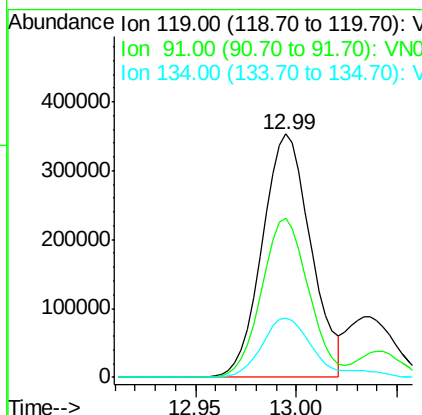
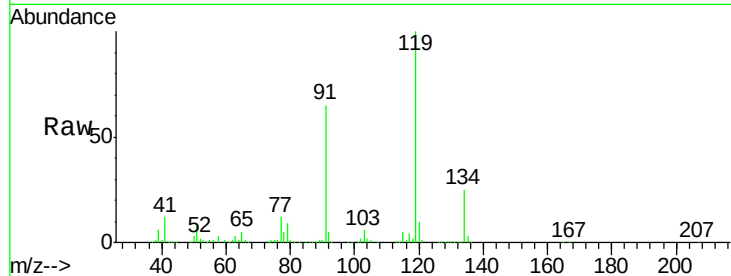
#83
 tert-Butylbenzene
 Concen: 20.934 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	591423		
91	63.6		31.3	93.8
134	26.4		13.1	39.1

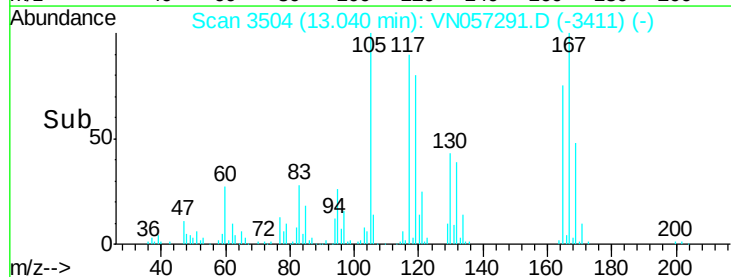
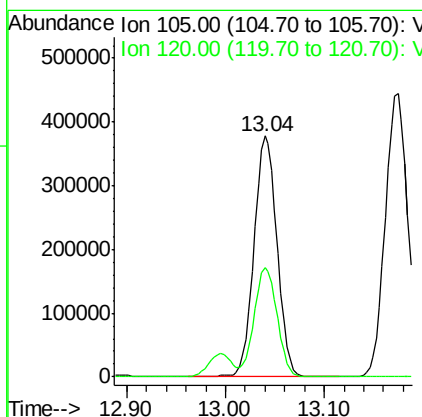
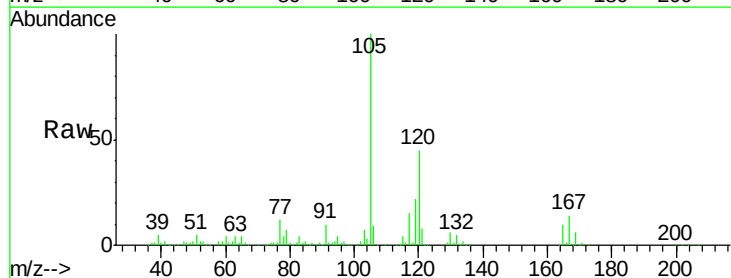
Manual Integrations
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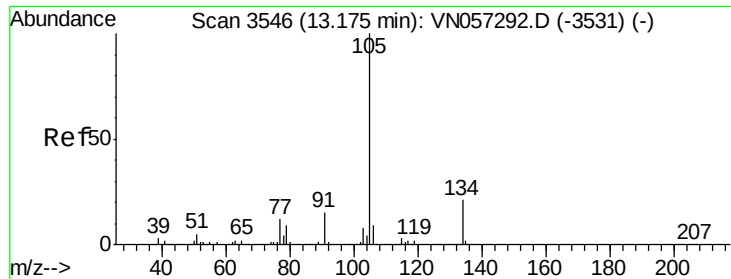
MMDadoda
 8/19/2019 1:53:15 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.390 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	605479		
120	45.2		22.6	67.7





#85

sec-Butylbenzene

Concen: 20.853 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 705697

Ion Ratio Lower Upper

105 100

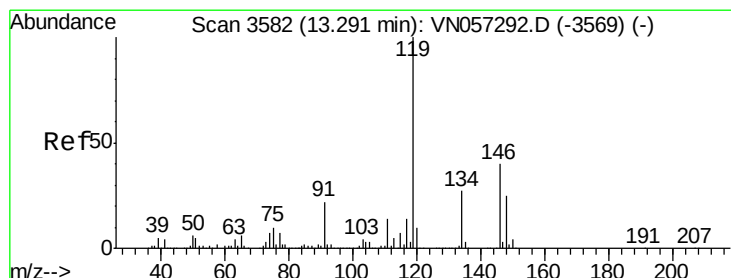
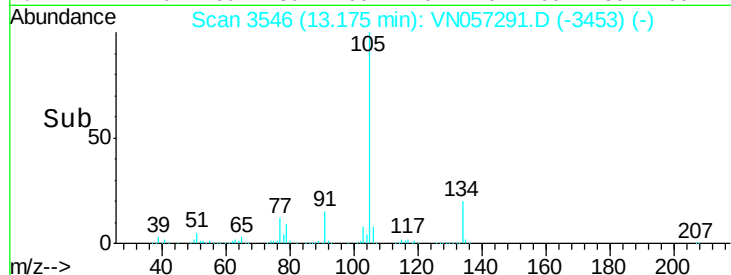
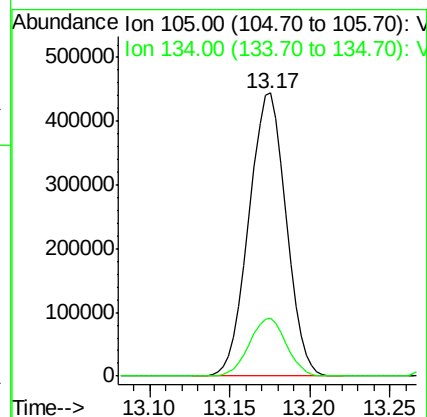
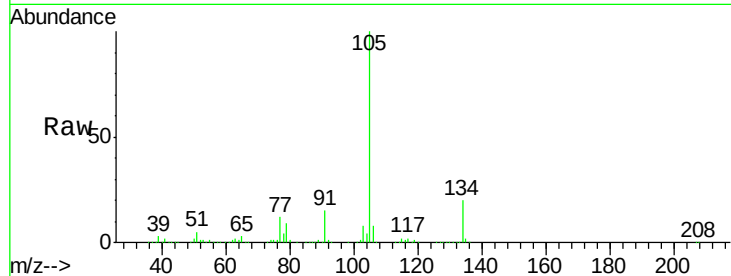
134 20.3 10.4 31.2

Manual Integrations

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MMdadoda

8/19/2019 1:53:15 AM



#86

p-Isopropyltoluene

Concen: 20.158 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

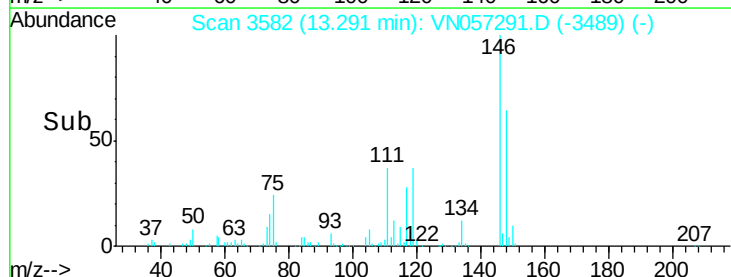
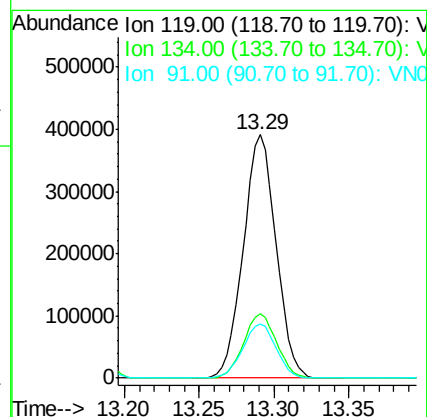
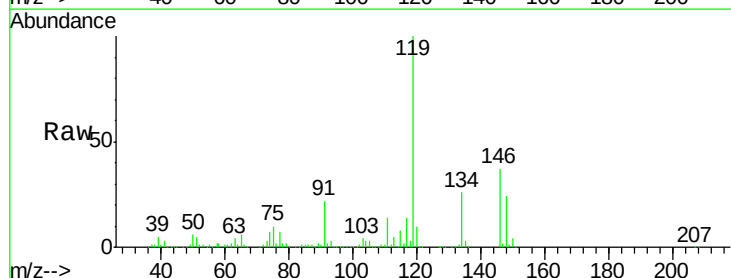
Tgt Ion:119 Resp: 594761

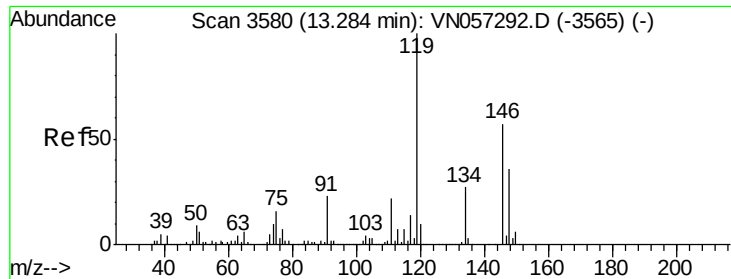
Ion Ratio Lower Upper

119 100

134 26.7 13.4 40.2

91 22.6 11.2 33.5





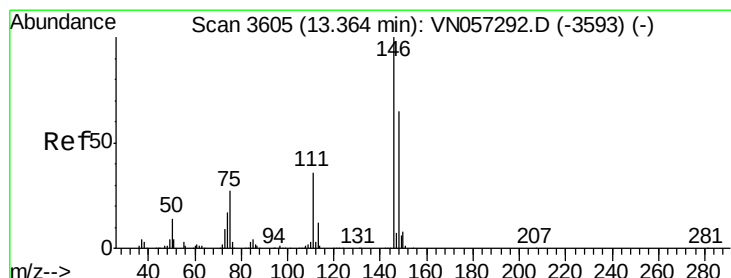
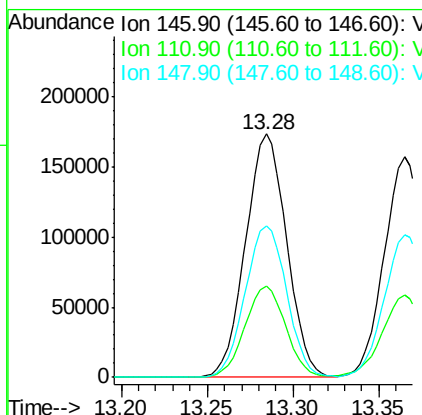
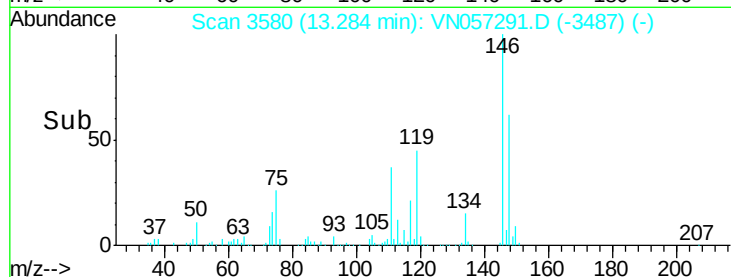
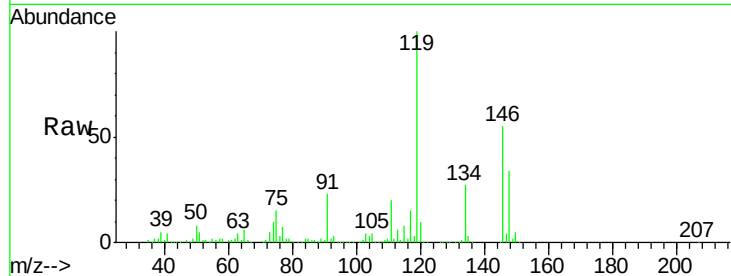
#87
 1,3-Dichlorobenzene
 Concen: 20.753 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	288449		
111	37.0		18.7	56.1
148	62.8		31.7	95.1

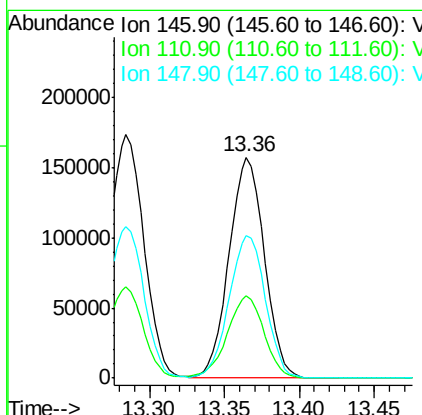
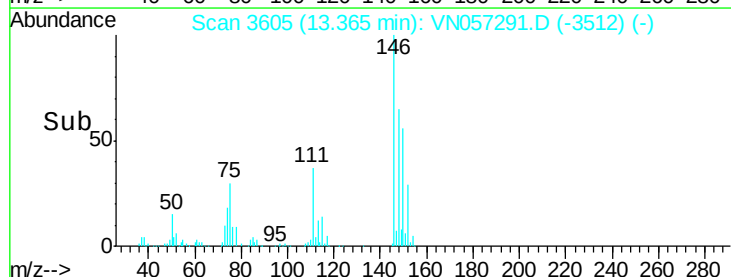
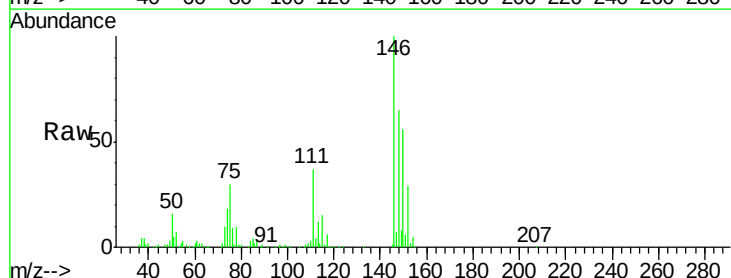
Manual Integrations
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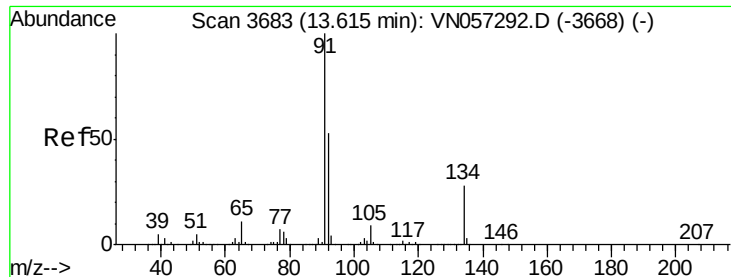
MMDadoda
 8/19/2019 1:53:15 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.254 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	259799		
111	38.9		18.4	55.4
148	66.3		32.5	97.4





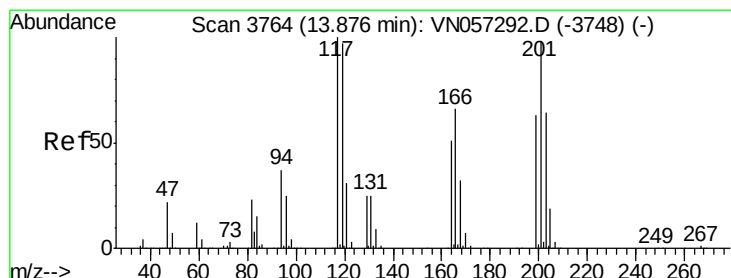
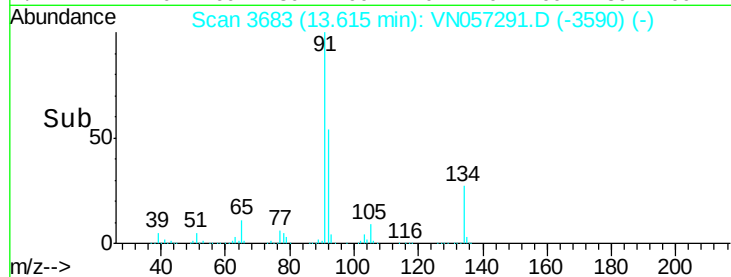
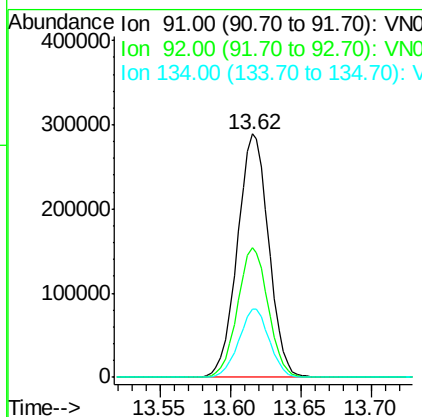
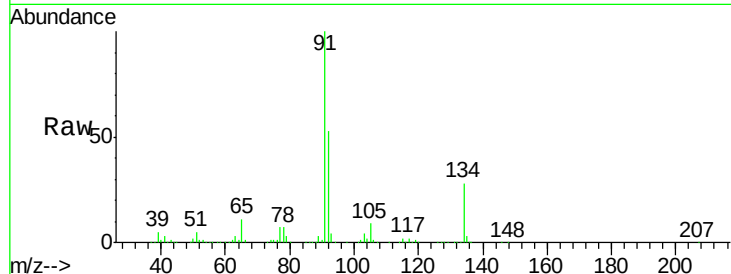
#89
n-Butylbenzene
Concen: 21.648 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	52.4	26.2	78.6	
134	27.4	13.9	41.7	

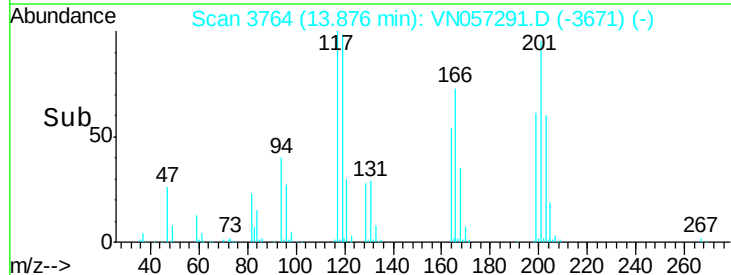
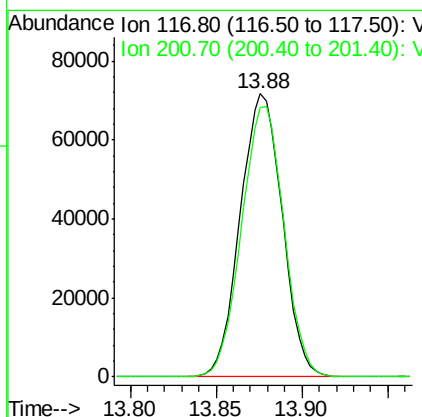
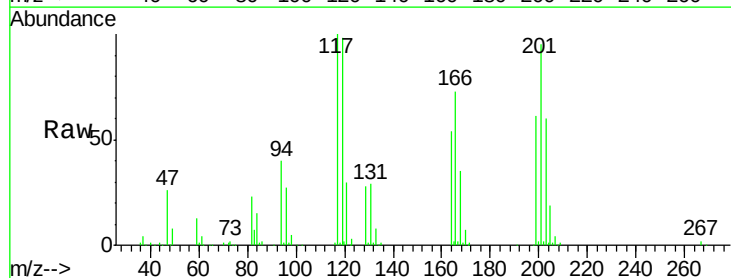
Manual Integrations
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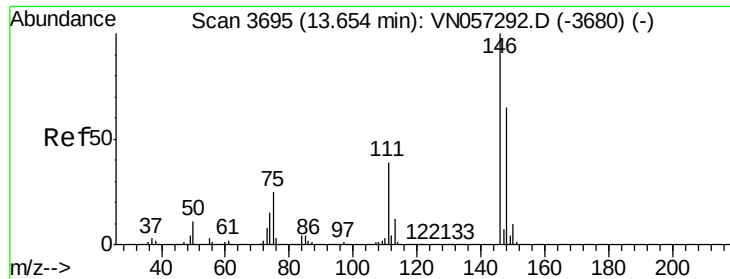
MMDadoda
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#90
Hexachloroethane
Concen: 21.129 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	96.1	48.4	145.0	





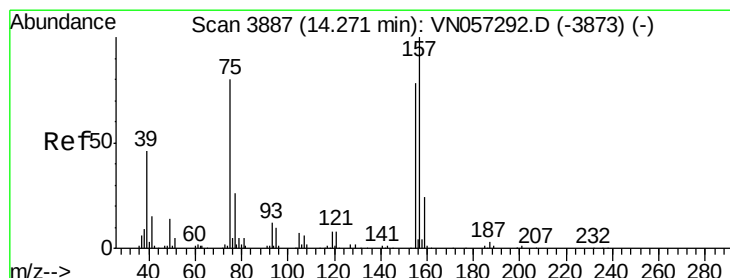
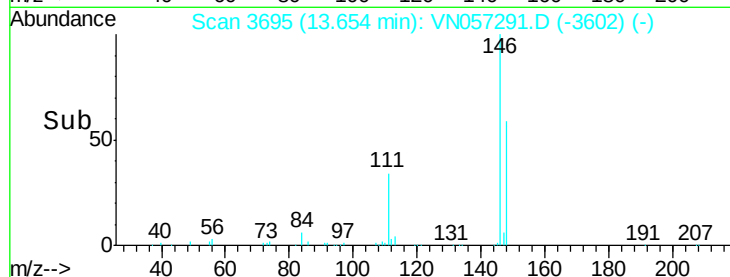
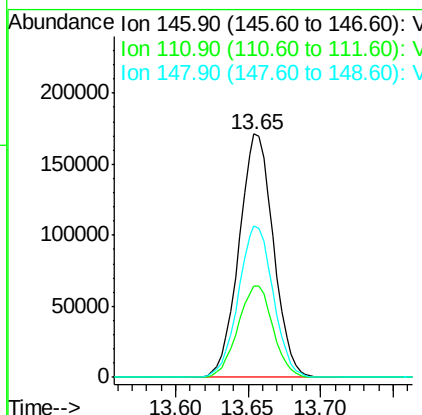
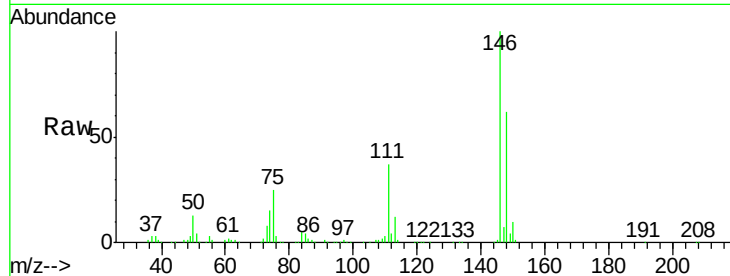
#91
 1,2-Dichlorobenzene
 Concen: 20.891 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.7	59.1
148	62.8	32.0	96.0

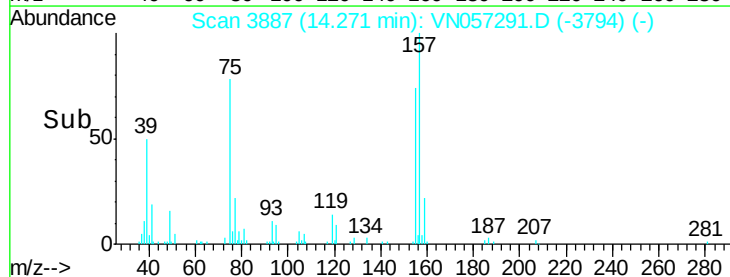
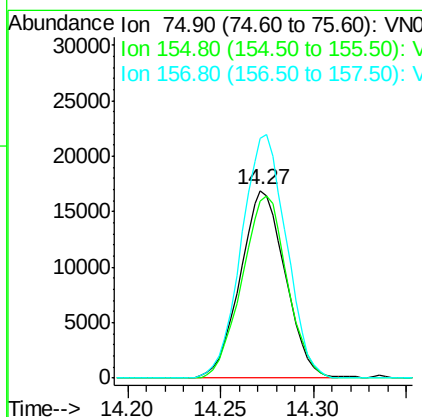
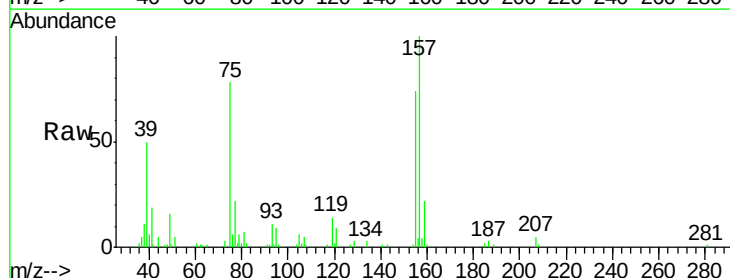
Manual Integrations
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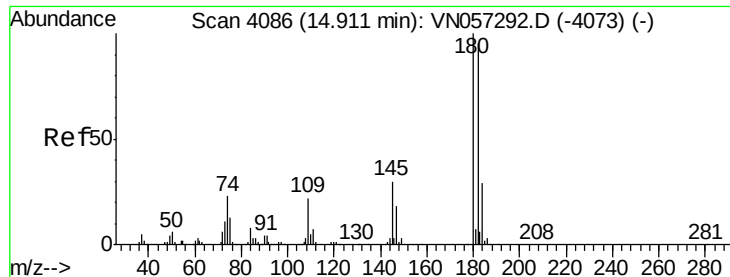
MMDadoda
 8/19/2019 1:53:15 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.177 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN057291.D
 Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.9	49.6	148.8
157	129.4	63.7	191.1





#93

1,2,4-Trichlorobenzene

Concen: 14.248 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN057291.D

Acq: 14 Aug 2019 17:03

Instrument :

MSVOA_N

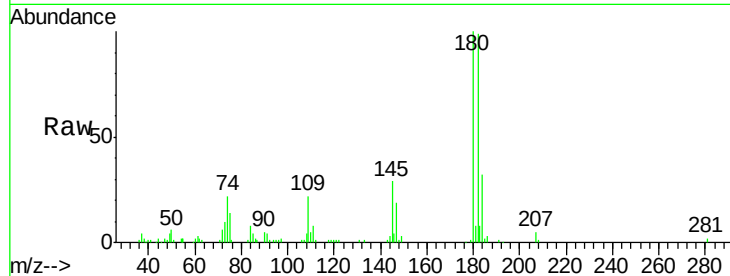
ClientSampleId :

VSTDIC020

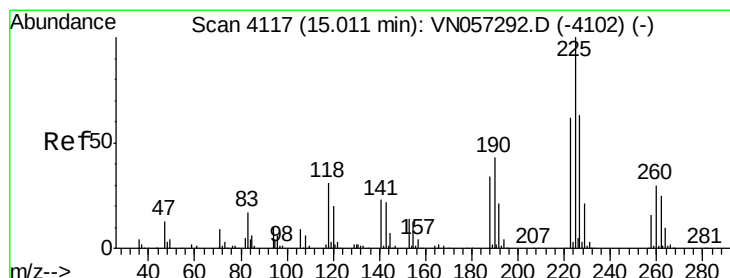
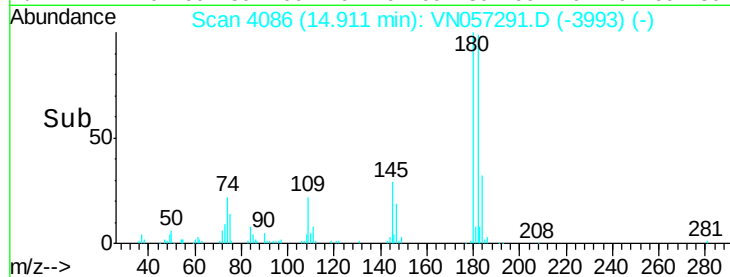
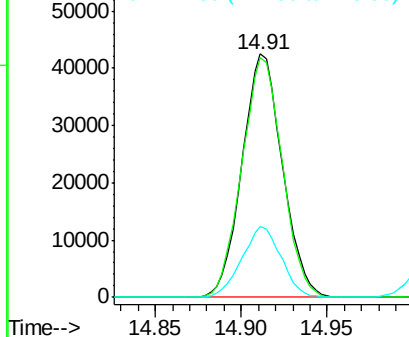
Tot Ion:	180	Resp:	69118
Ion Ratio	Lower	Upper	
180	100		
182	98.8	48.0	144.2
145	28.3	14.5	43.6

Manual Integrations
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MMdadoda
8/19/2019 1:53:15 AM



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 19.394 ug/l

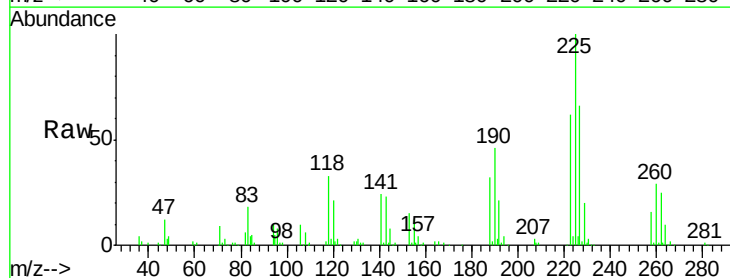
RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

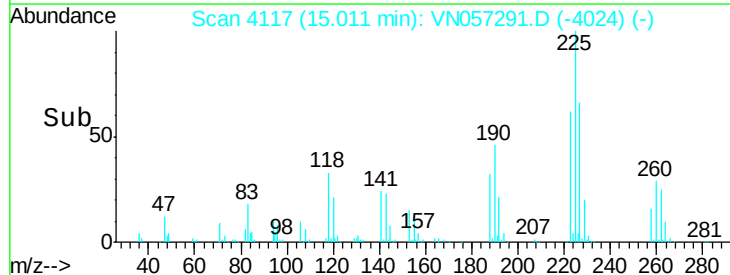
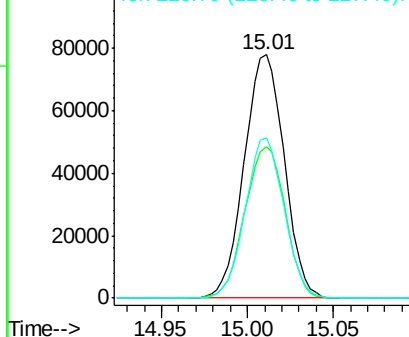
Lab File: VN057291.D

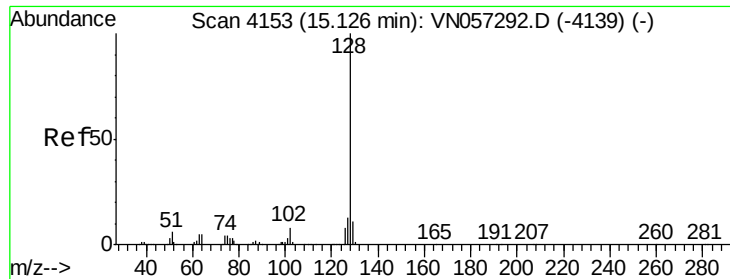
Acq: 14 Aug 2019 17:03

Tgt Ion:	225	Resp:	126126
Ion Ratio	Lower	Upper	
225	100		
223	62.9	30.7	92.1
227	63.7	30.9	92.7



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





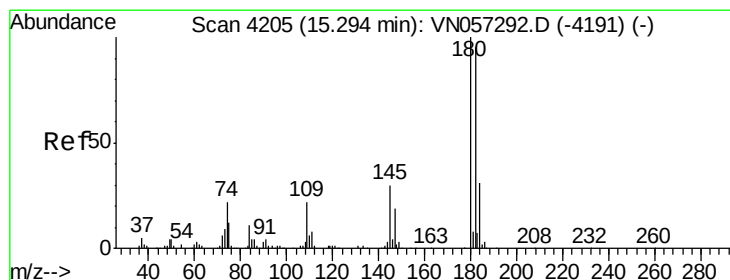
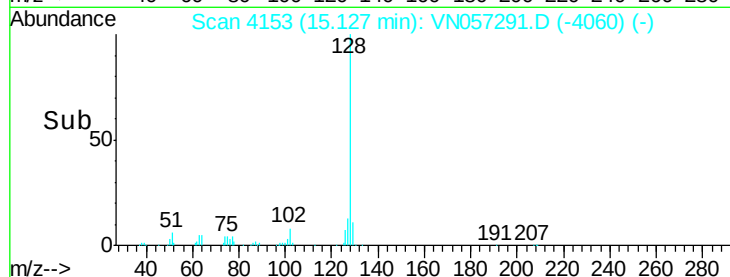
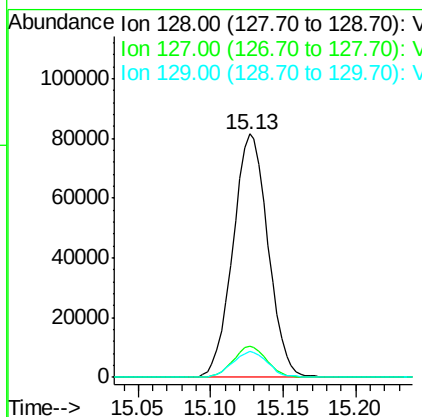
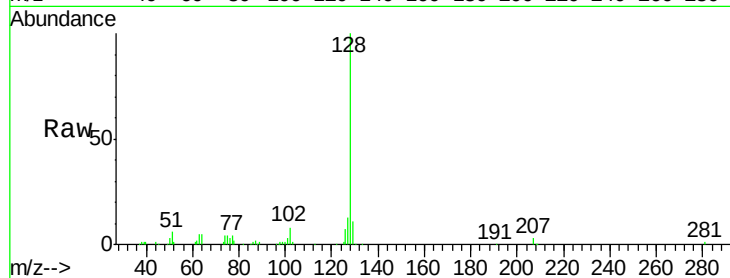
#95
Naphthalene
Concen: 14.364 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.5	15.7
129	10.6	8.8	13.2

Manual Integrations
APPROVED

MMdadoda
8/19/2019 1:53:15 AM



#96
1,2,3-Trichlorobenzene
Concen: 14.139 ug/l
RT: 15.29 min Scan# 4205
Delta R.T. 0.00 min
Lab File: VN057291.D
Acq: 14 Aug 2019 17:03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.9	143.6
145	30.1	15.1	45.3

