

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082219\
 Data File : VN057441.D
 Acq On : 22 Aug 2019 18:43
 Operator : JC/SP
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 8/23/2019 2:40:13 PM

Quant Time: Aug 23 04:36:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 04:20:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	418566	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	754821	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	701505	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	279957	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	711729	138.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	276.64%	
35) Dibromofluoromethane	7.57	113	484052	97.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	194.00%	
50) Toluene-d8	10.08	98	1931067	104.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	209.64%	
62) 4-Bromofluorobenzene	12.40	95	679363	104.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	209.72%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.84	85	494929	128.413	ug/l	96
3) Chloromethane	2.04	50	645984	137.926	ug/l	99
4) Vinyl Chloride	2.17	62	820649	173.078	ug/l	98
5) Bromomethane	2.53	94	494700	151.574	ug/l	98
6) Chloroethane	2.68	64	509060	160.793	ug/l	97
7) Trichlorofluoromethane	3.00	101	1239170	169.104	ug/l	98
8) Diethyl Ether	3.39	74	442633	161.726	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	673629	160.861	ug/l	100
10) Methyl Iodide	3.92	142	538908	93.030	ug/l	99
11) Tert butyl alcohol	4.79	59	447974	648.457	ug/l	97
12) 1,1-Dichloroethene	3.71	96	660444	158.367	ug/l	99
13) Acrolein	3.58	56	377890	793.919	ug/l	99
14) Allyl chloride	4.29	41	923002	142.542	ug/l	98
15) Acrylonitrile	4.96	53	1219133	654.733	ug/l	100
16) Acetone	3.80	43	1843657	1091.093	ug/l	96
17) Carbon Disulfide	4.01	76	1219588	117.696	ug/l	99
18) Methyl Acetate	4.30	43	721733	105.401	ug/l	100
19) Methyl tert-butyl Ether	5.02	73	1593491	129.730	ug/l	100
20) Methylene Chloride	4.52	84	487022	107.173	ug/l	99
21) trans-1,2-Dichloroethene	5.01	96	460335	112.891	ug/l	98
22) Diisopropyl ether	5.93	45	1909544	147.526	ug/l	99
23) Vinyl Acetate	5.87	43	7588095	736.306	ug/l	100
24) 1,1-Dichloroethane	5.82	63	997863	130.248	ug/l	99
25) 2-Butanone	6.82	43	1754103	706.897	ug/l	98
26) 2,2-Dichloropropane	6.80	77	826699	132.416	ug/l	100
27) cis-1,2-Dichloroethene	6.81	96	553913	114.373	ug/l	99
28) Bromochloromethane	7.18	49	569396	156.123	ug/l	96
29) Tetrahydrofuran	7.20	42	1162665	731.143	ug/l	99
30) Chloroform	7.36	83	971031	122.450	ug/l	99
31) Cyclohexane	7.63	56	941781	134.789	ug/l	98
32) 1,1,1-Trichloroethane	7.55	97	861243	129.104	ug/l	99
36) 1,1-Dichloropropene	7.77	75	726253	106.893	ug/l	100
37) Ethyl Acetate	6.92	43	745405	130.404	ug/l	99
38) Carbon Tetrachloride	7.76	117	724342	103.603	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	899101	112.779	ug/l	98
40) Benzene	8.03	78	2191613	106.073	ug/l	97
41) Methacrylonitrile	7.16	41	369854	141.788	ug/l #	88
42) 1,2-Dichloroethane	8.11	62	830133	118.324	ug/l	100
43) Isopropyl Acetate	8.16	43	1326900	107.951	ug/l	99
44) Trichloroethene	8.82	130	493104	87.468	ug/l	99
45) 1,2-Dichloropropane	9.11	63	610482	113.118	ug/l	99
46) Dibromomethane	9.20	93	388304	108.965	ug/l	99
47) Bromodichloromethane	9.39	83	816245	114.693	ug/l	99
48) Methyl methacrylate	9.19	41	646703	135.027	ug/l	99
49) 1,4-Dioxane	9.20	88	168179	1834.687	ug/l	94
51) 4-Methyl-2-Pentanone	9.98	43	3836905	646.803	ug/l	100
52) Toluene	10.15	92	1350274	106.177	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	902457	117.755	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	968851	114.940	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	511077	102.277	ug/l	99
56) Ethyl methacrylate	10.43	69	877392	118.496	ug/l	99
57) 1,3-Dichloropropane	10.71	76	919726	108.836	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	1240090	652.706	ug/l	99
59) 2-Hexanone	10.75	43	2677163	635.275	ug/l	100
60) Dibromochloromethane	10.90	129	570860	102.918	ug/l	99
61) 1,2-Dibromoethane	11.00	107	527241	99.683	ug/l	99
64) Tetrachloroethene	10.63	164	442643	75.320	ug/l	96
65) Chlorobenzene	11.43	112	1324112	93.282	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	504435	92.945	ug/l	99
67) Ethyl Benzene	11.51	91	2590390	102.162	ug/l	100
68) m/p-Xylenes	11.62	106	1869078	202.588	ug/l	98
69) o-Xylene	11.95	106	900404	99.274	ug/l	100
70) Styrene	11.96	104	1519576	105.070	ug/l	99
71) Bromoform	12.13	173	359376	85.875	ug/l #	100
73) Isopropylbenzene	12.25	105	2444263	89.028	ug/l	99
74) N-amyl acetate	12.07	43	1143906	129.158	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	695946	86.687	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	579186m	84.127	ug/l	
77) Bromobenzene	12.53	156	504055	72.772	ug/l	99
78) n-propylbenzene	12.59	91	2834592	102.507	ug/l	100
79) 2-Chlorotoluene	12.68	91	1644775	93.154	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	2017033	91.333	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	244278	103.898	ug/l	100
82) 4-Chlorotoluene	12.78	91	1660430	101.765	ug/l	100
83) tert-Butylbenzene	13.00	119	1662219	81.818	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	1956697	95.424	ug/l	99
85) sec-Butylbenzene	13.17	105	2284271	92.978	ug/l	100
86) p-Isopropyltoluene	13.29	119	1958751	93.928	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	850770	88.135	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	842158	91.213	ug/l	98
89) n-Butylbenzene	13.62	91	1744979	113.761	ug/l	100
90) Hexachloroethane	13.88	117	405989	93.236	ug/l	100
91) 1,2-Dichlorobenzene	13.66	146	830917	92.062	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	133556	126.298	ug/l	96

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ClientSampleId :
VSTDICC100

Manual Integrations
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082219W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 23 04:20:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	363469	120.687	ug/l	99
94) Hexachlorobutadiene	15.01	225	215969	54.214	ug/l	98
95) Naphthalene	15.13	128	1163394	165.836	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	363461	125.548	ug/l	99

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

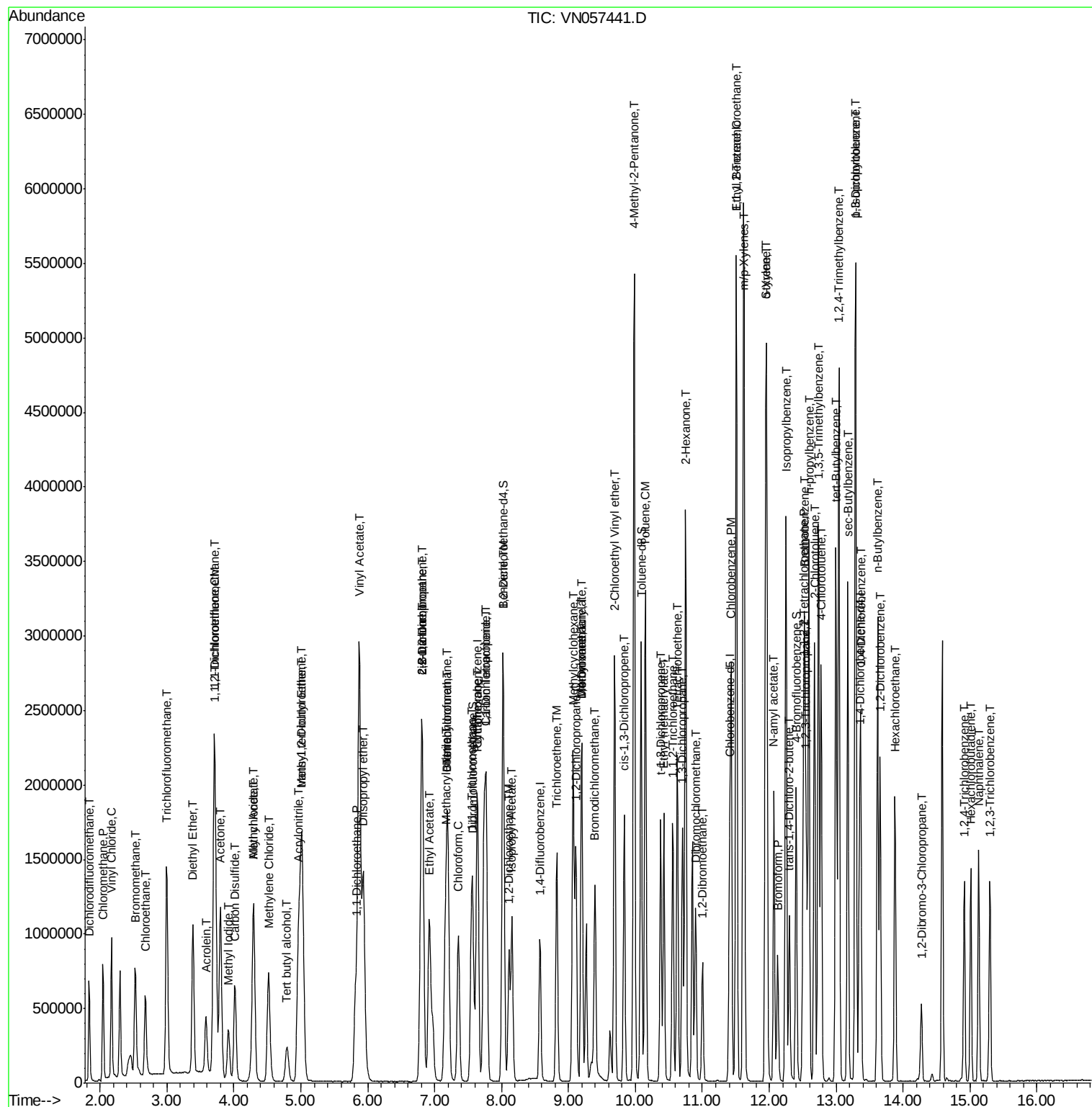
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 Data File : VN057441.D
 Acq On : 22 Aug 2019 18:43
 Operator : JC/SP
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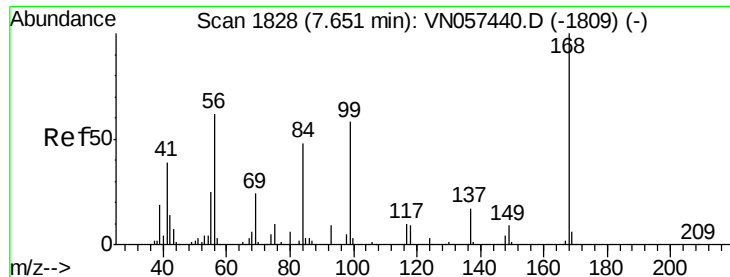
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:168 Resp: 418566

Ion Ratio Lower Upper

168 100

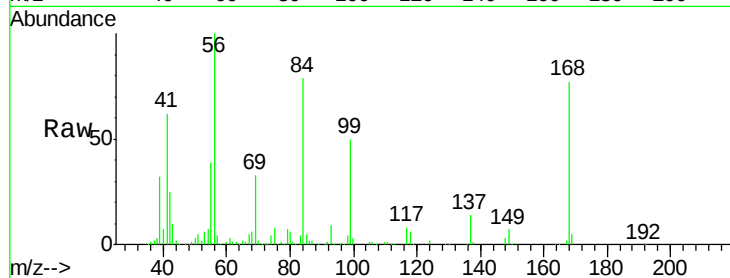
99 64.9 50.6 76.0

Manual Integrations

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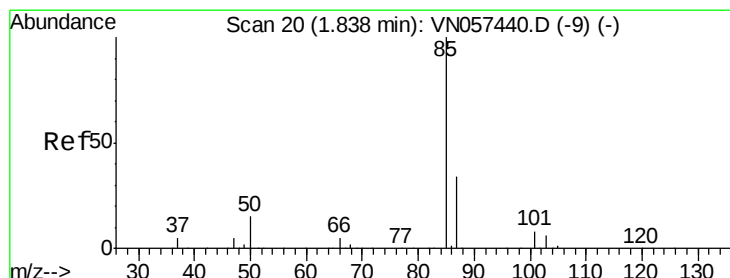
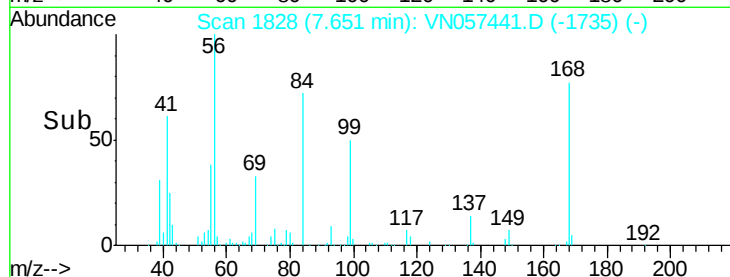
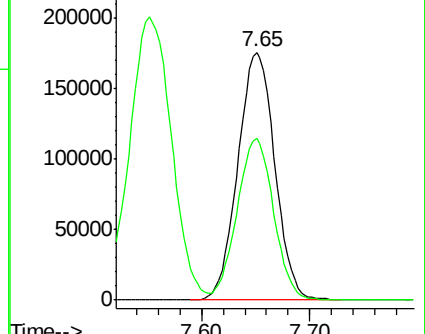
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 128.413 ug/l

RT: 1.84 min Scan# 20

Delta R.T. -0.00 min

Lab File: VN057441.D

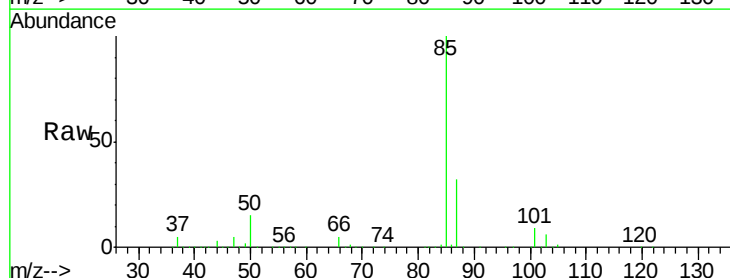
Acq: 22 Aug 2019 18:43

Tgt Ion: 85 Resp: 494929

Ion Ratio Lower Upper

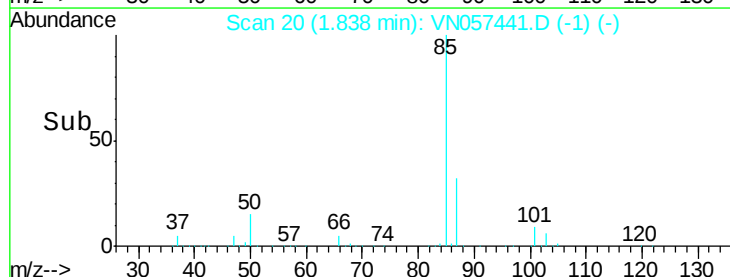
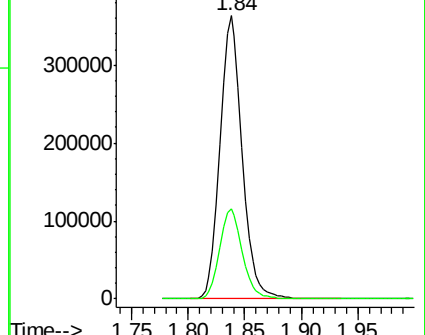
85 100

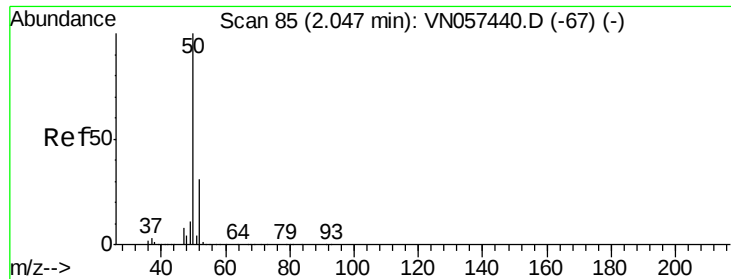
87 32.0 17.1 51.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 137.926 ug/l

RT: 2.04 min Scan# 84

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 645984

Ion Ratio Lower Upper

50 100

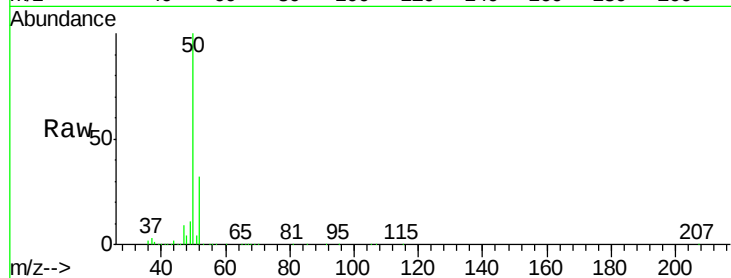
52 31.9 25.1 37.7

Manual Integrations

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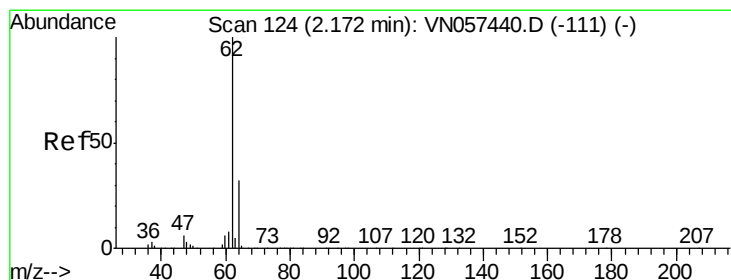
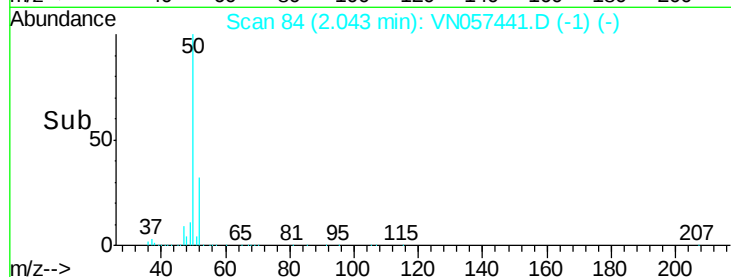
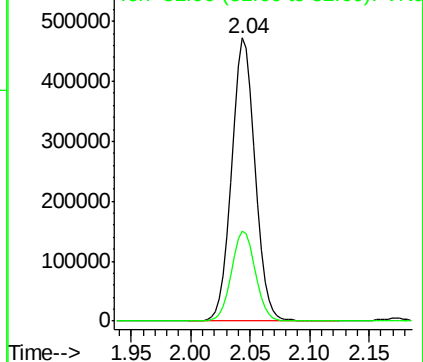
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 173.078 ug/l

RT: 2.17 min Scan# 124

Delta R.T. -0.00 min

Lab File: VN057441.D

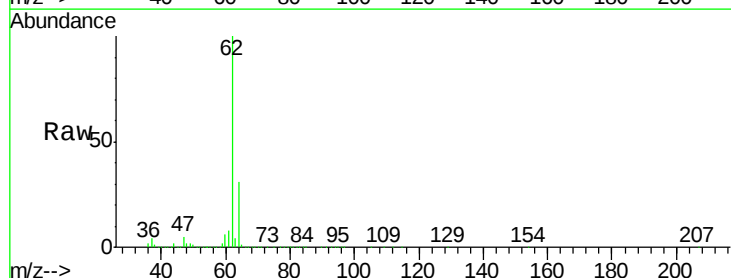
Acq: 22 Aug 2019 18:43

Tgt Ion: 62 Resp: 820649

Ion Ratio Lower Upper

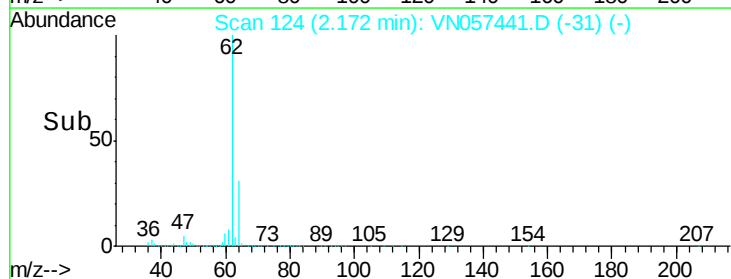
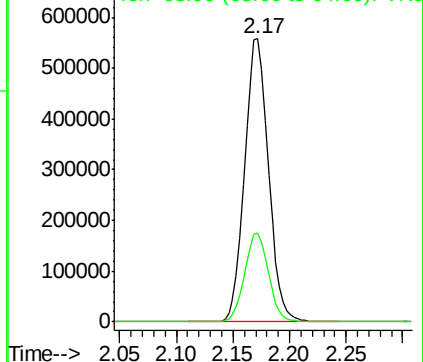
62 100

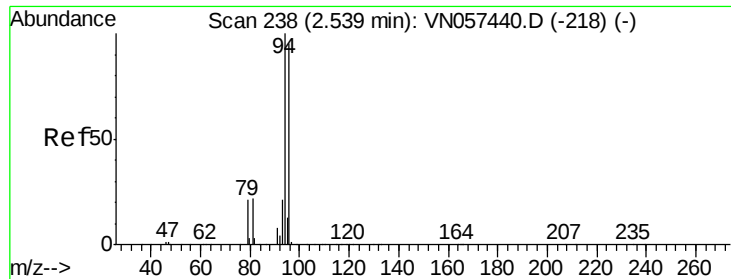
64 31.3 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 151.574 ug/l

RT: 2.53 min Scan# 234

Delta R.T. -0.01 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 94 Resp: 494700

Ion Ratio Lower Upper

94 100

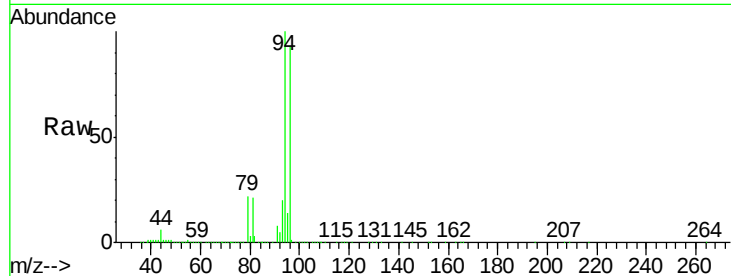
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Manual Integrations

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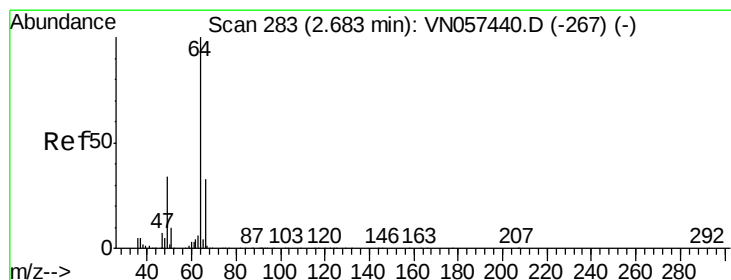
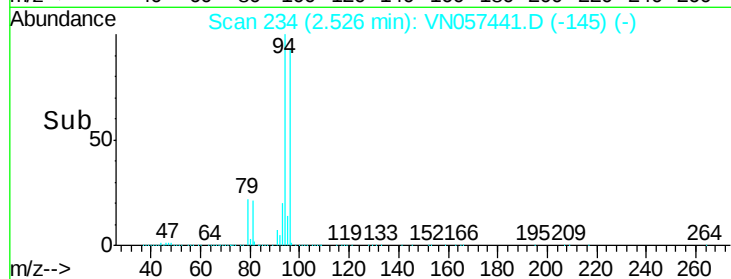
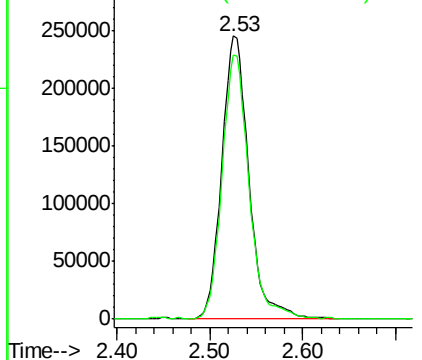
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 160.793 ug/l

RT: 2.68 min Scan# 281

Delta R.T. -0.01 min

Lab File: VN057441.D

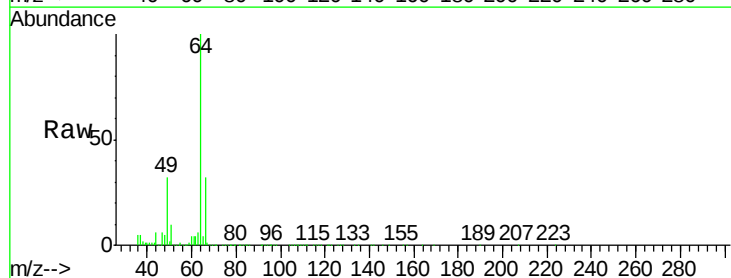
Acq: 22 Aug 2019 18:43

Tgt Ion: 64 Resp: 509060

Ion Ratio Lower Upper

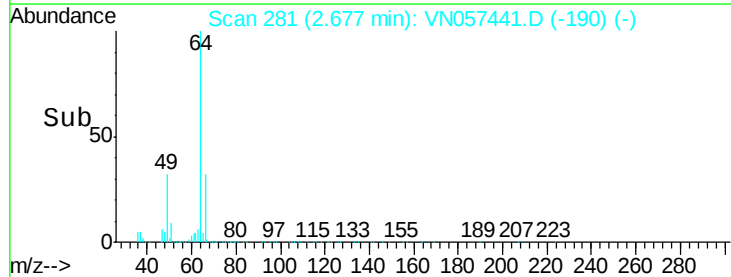
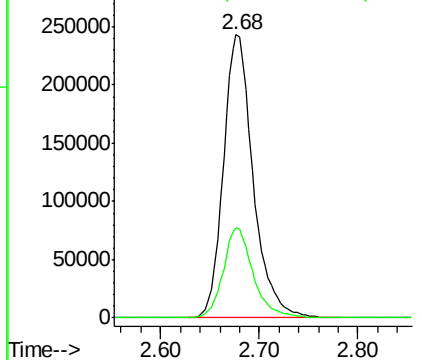
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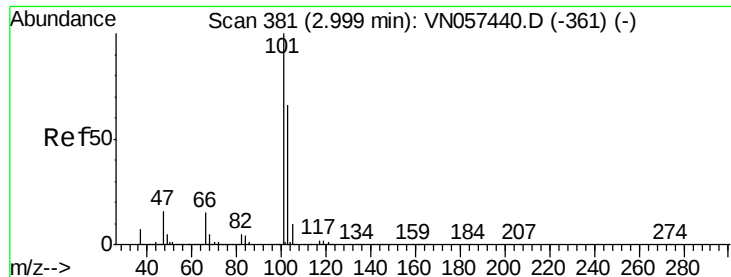
66 31.8 26.8 40.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

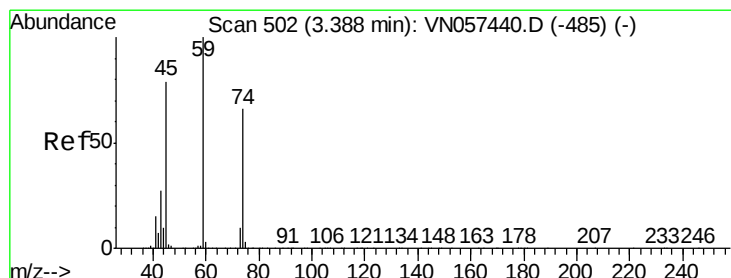
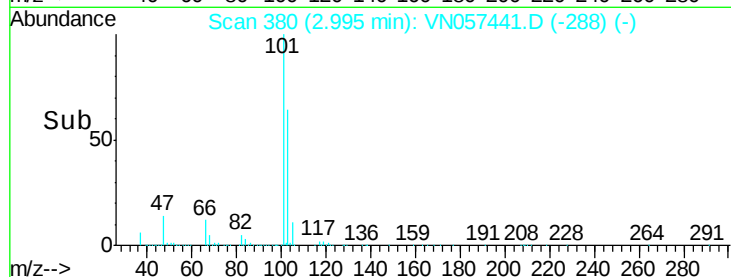
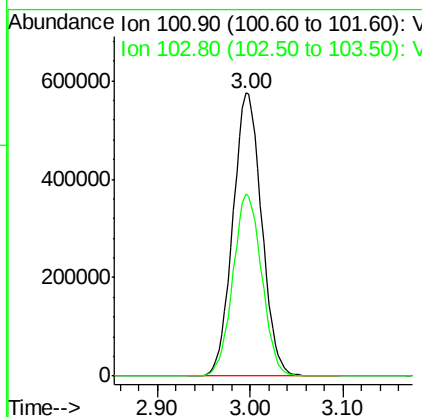
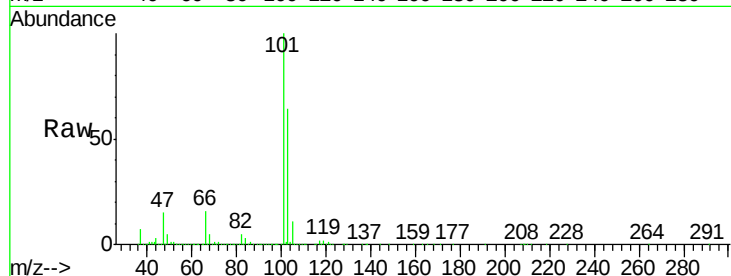
Trichlorofluoromethane
Concen: 169.104 ug/l
RT: 3.00 min Scan# 380
Delta R.T. -0.00 min
Lab File: VN057441.D
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Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:101 Resp: 1239170
Ion Ratio Lower Upper
101 100
103 64.2 52.6 78.8

Manual Integrations
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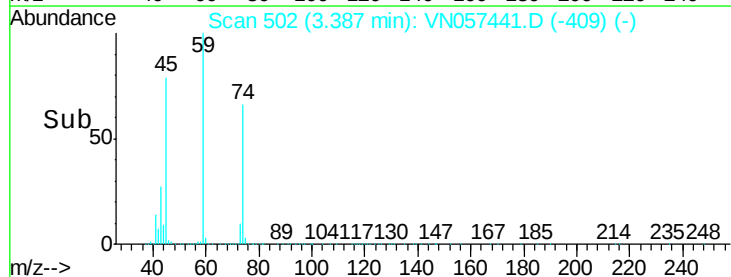
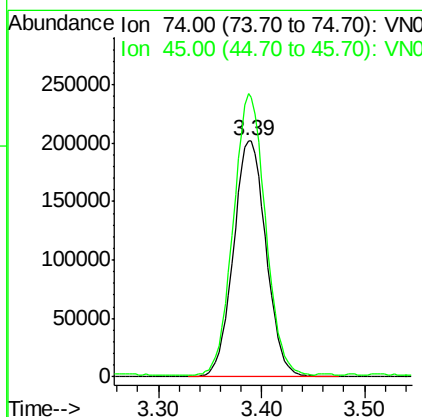
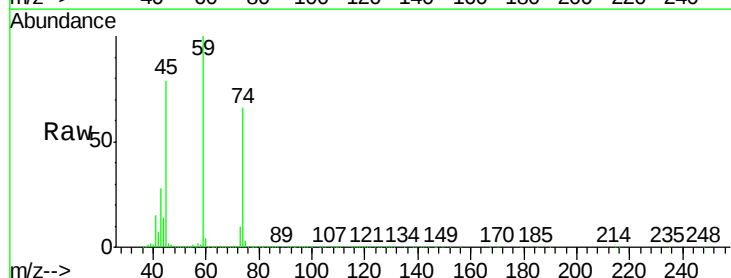
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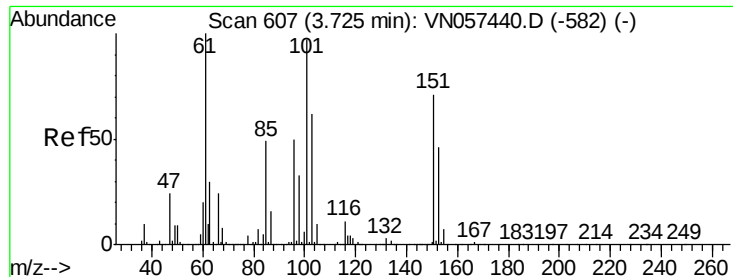


#8

Diethyl Ether
Concen: 161.726 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion: 74 Resp: 442633
Ion Ratio Lower Upper
74 100
45 117.9 57.9 173.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 160.861 ug/l

RT: 3.73 min Scan# 607

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

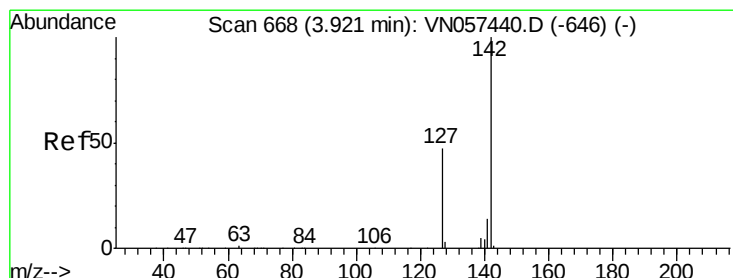
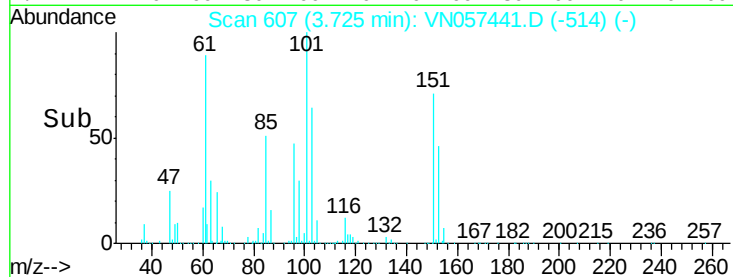
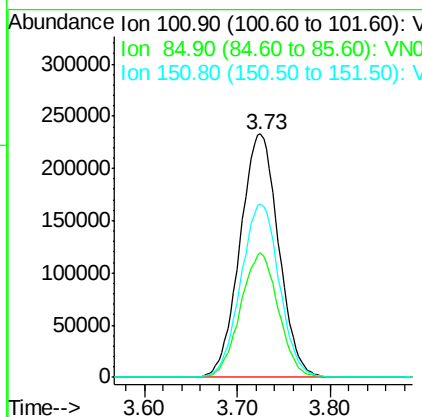
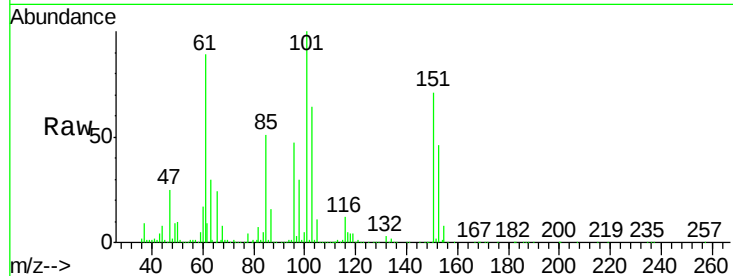
ClientSampleId :

VSTDIC100

Tot Ion:	101	Resp:	673629
Ion Ratio	Lower	Upper	
101	100		
85	49.7	40.0	60.0
151	71.2	57.0	85.6

Manual Integrations
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#10

Methyl Iodide

Concen: 93.030 ug/l

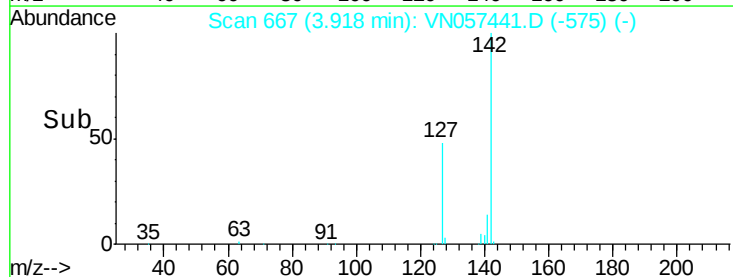
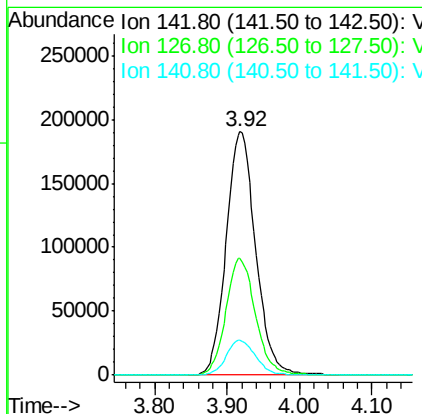
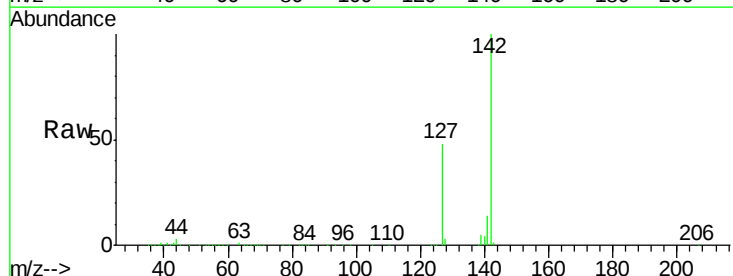
RT: 3.92 min Scan# 667

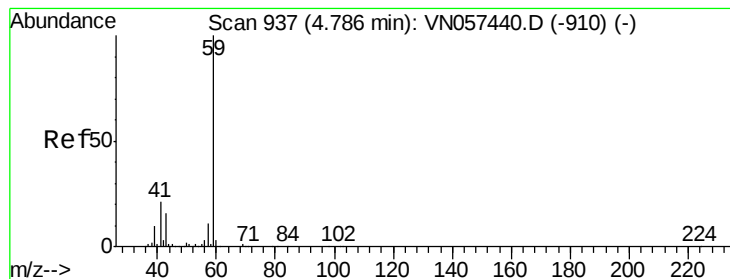
Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Tgt Ion:	142	Resp:	538908
Ion Ratio	Lower	Upper	
142	100		
127	48.1	37.8	56.8
141	14.3	11.9	17.9





#11

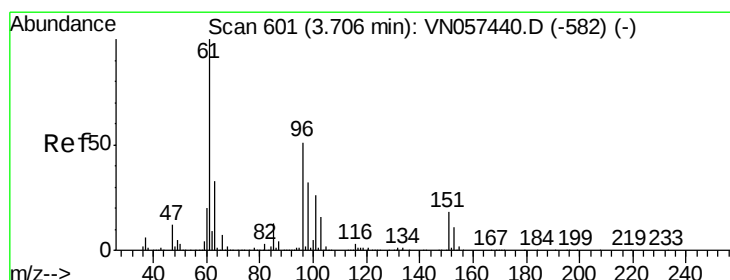
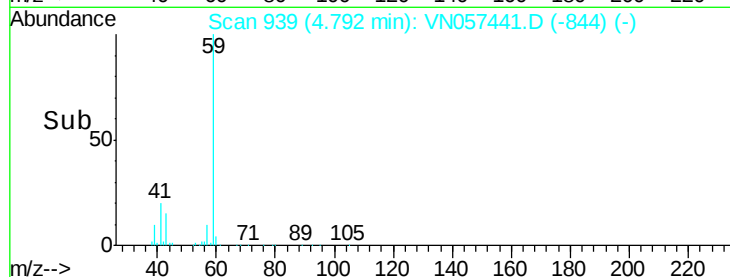
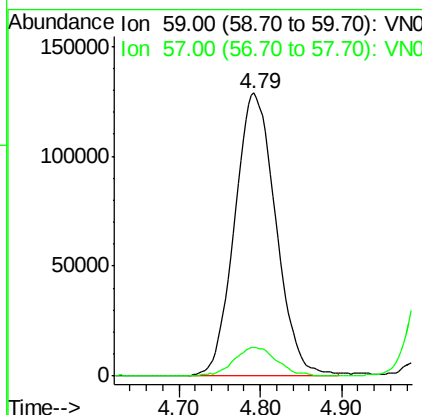
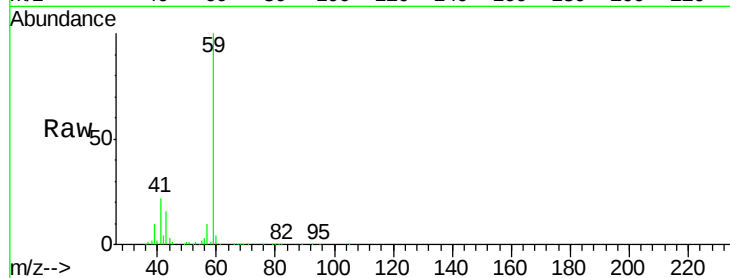
Tert butyl alcohol
 Concen: 648.457 ug/l
 RT: 4.79 min Scan# 939
 Delta R.T. 0.01 min
 Lab File: VN057441.D
 Acq: 22 Aug 2019 18:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.2	9.1	13.7

Manual Integrations
 APPROVED

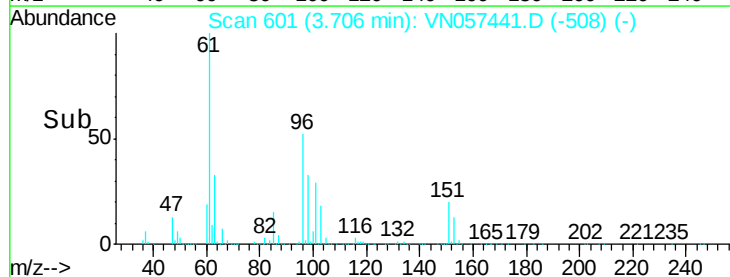
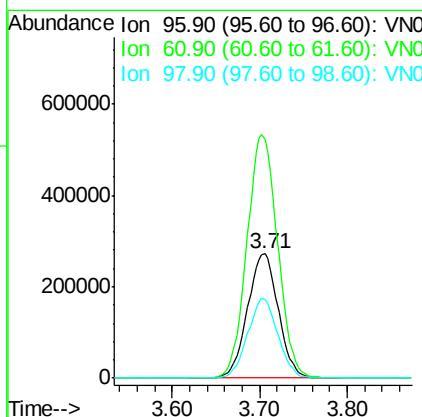
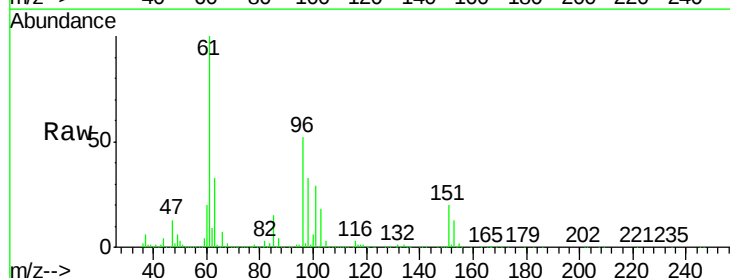
MMDadoda
 8/23/2019 2:40:13 PM

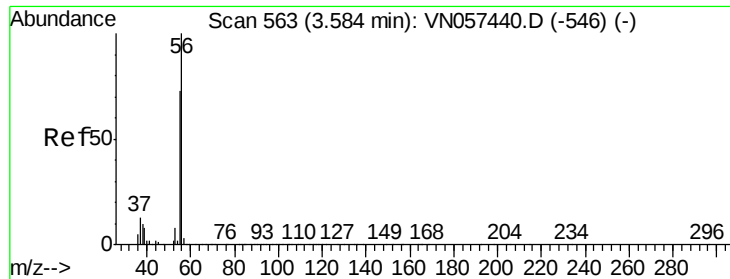


#12

1,1-Dichloroethene
 Concen: 158.367 ug/l
 RT: 3.71 min Scan# 601
 Delta R.T. -0.00 min
 Lab File: VN057441.D
 Acq: 22 Aug 2019 18:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	192.0	155.3	232.9
98	63.4	50.2	75.2





#13

Acrolein

Concen: 793.919 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 377890

Ion Ratio Lower Upper

56 100

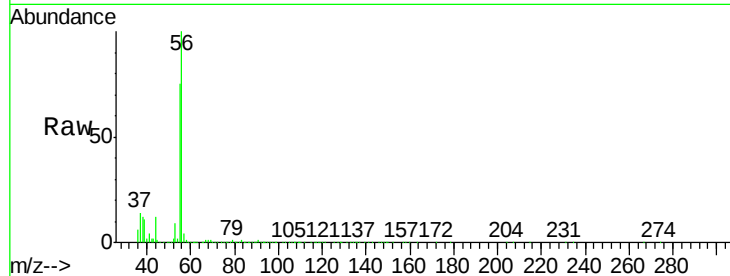
55 72.6 59.0 88.4

Manual Integrations

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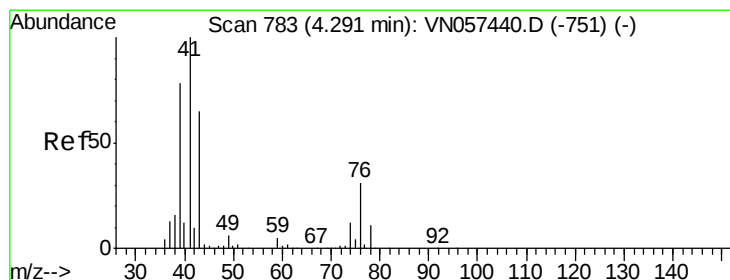
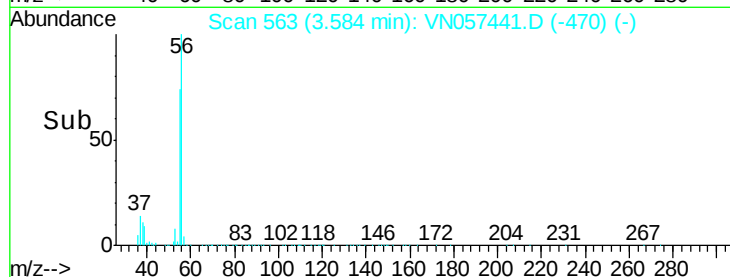
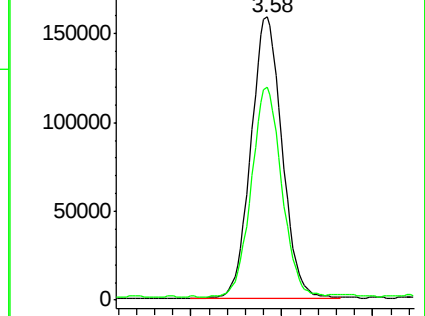
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 142.542 ug/l

RT: 4.29 min Scan# 782

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

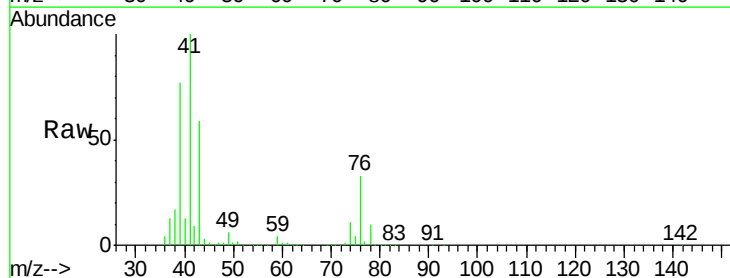
Tgt Ion: 41 Resp: 923002

Ion Ratio Lower Upper

41 100

39 72.7 57.4 86.2

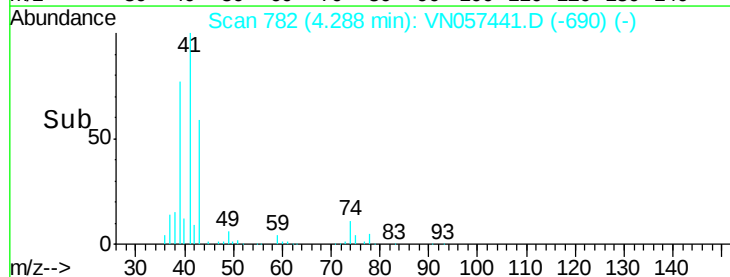
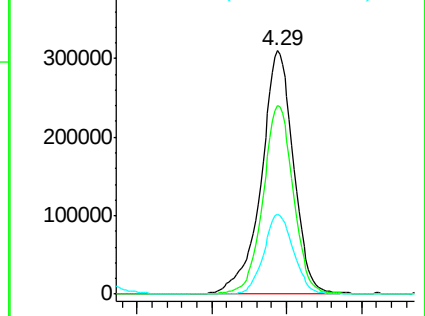
76 30.2 22.9 34.3

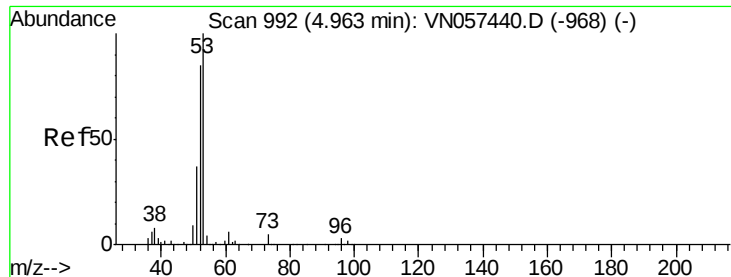


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 654.733 ug/l

RT: 4.96 min Scan# 992

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 53 Resp: 1219133

Ion Ratio Lower Upper

53 100

52 83.5 67.0 100.6

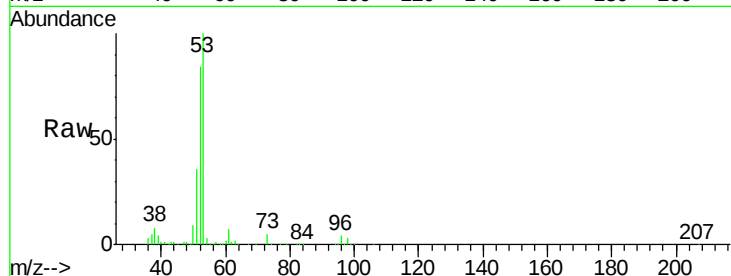
51 37.4 29.9 44.9

Manual Integrations

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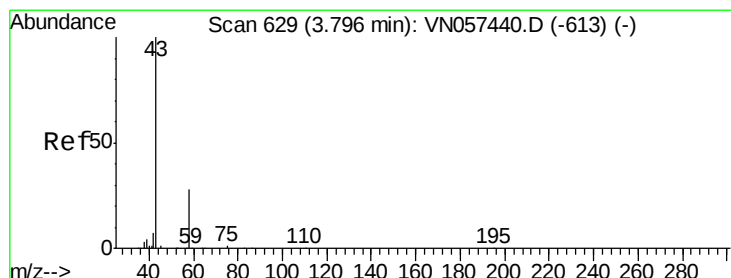
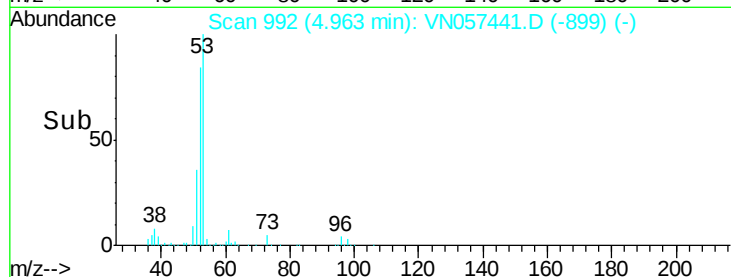
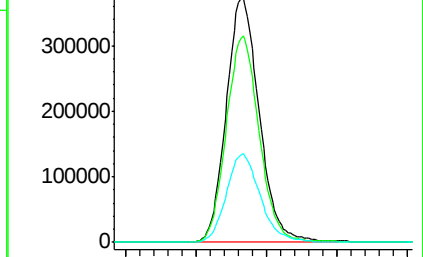
8/23/2019 2:40:13 PM



Abundance Ion 53.00 (52.70 to 53.70): VN057441.D (-899) (-)

Ion 52.00 (51.70 to 52.70): VN057441.D (-899) (-)

Ion 51.00 (50.70 to 51.70): VN057441.D (-899) (-)



#16

Acetone

Concen: 1091.093 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057441.D

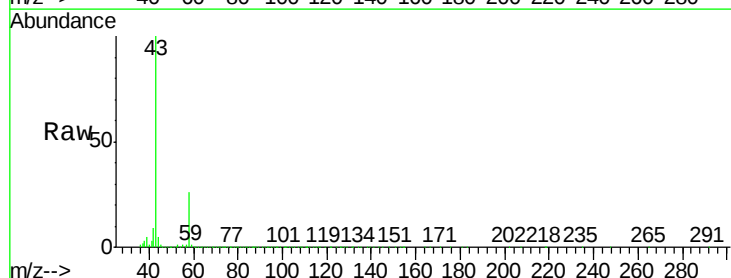
Acq: 22 Aug 2019 18:43

Tgt Ion: 43 Resp: 1843657

Ion Ratio Lower Upper

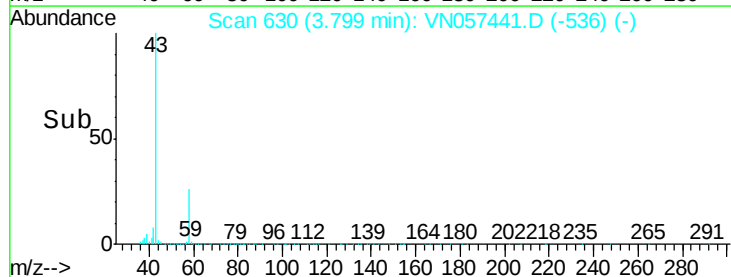
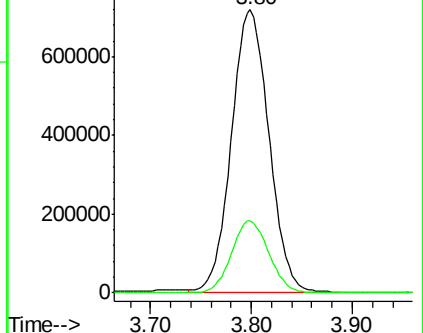
43 100

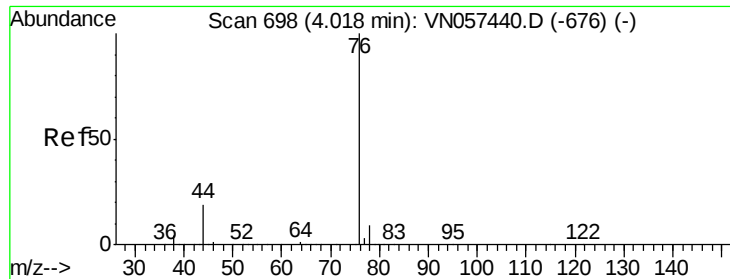
58 25.6 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VN057441.D (-536) (-)

Ion 58.00 (57.70 to 58.70): VN057441.D (-536) (-)





#17

Carbon Disulfide

Concen: 117.696 ug/l

RT: 4.01 min Scan# 697

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 1219588

Ion Ratio Lower Upper

76 100

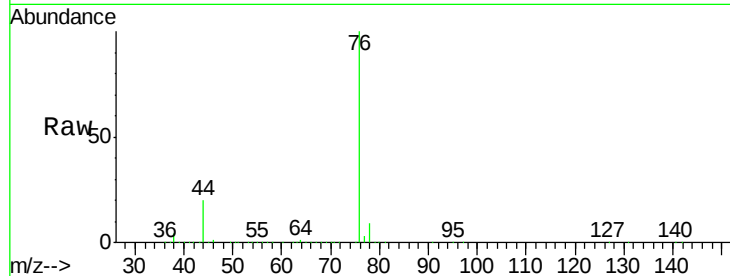
78 9.2 7.1 10.7

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.01

500000

400000

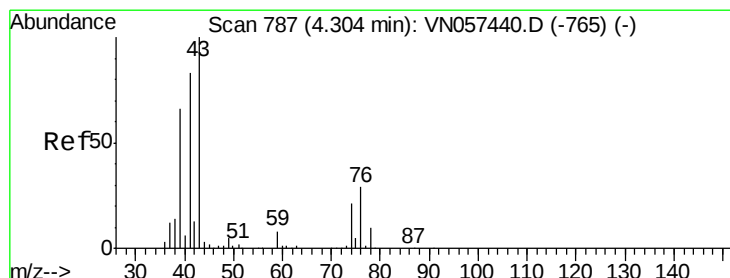
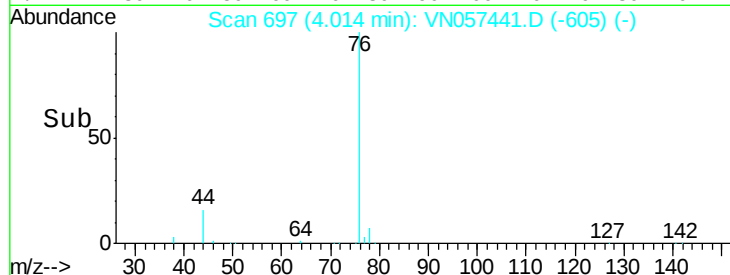
300000

200000

100000

0

Time-->



#18

Methyl Acetate

Concen: 105.401 ug/l

RT: 4.30 min Scan# 787

Delta R.T. -0.00 min

Lab File: VN057441.D

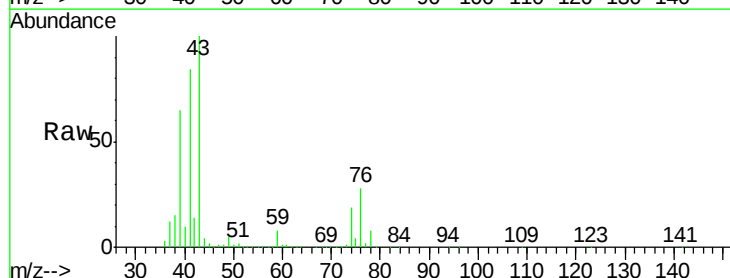
Acq: 22 Aug 2019 18:43

Tgt Ion: 43 Resp: 721733

Ion Ratio Lower Upper

43 100

74 20.0 15.9 23.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.30

300000

250000

200000

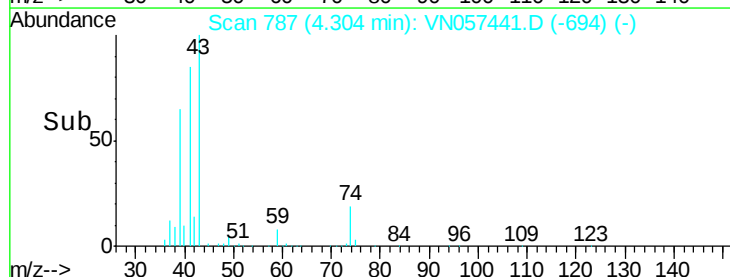
150000

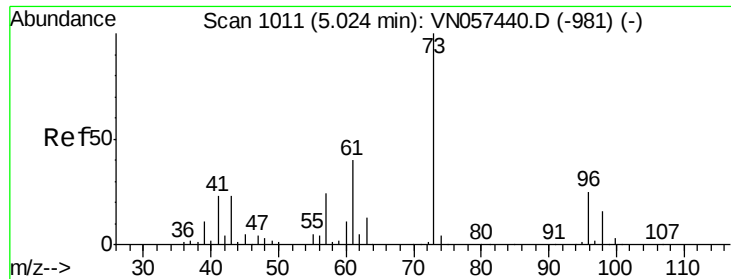
100000

50000

0

Time-->





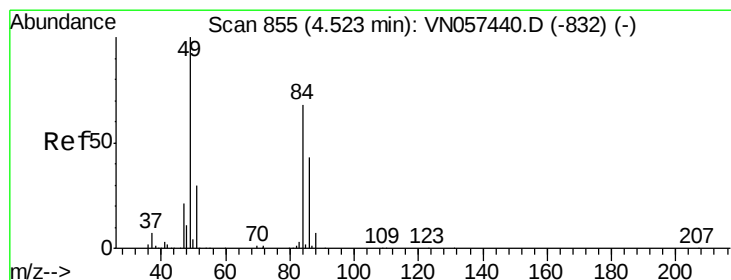
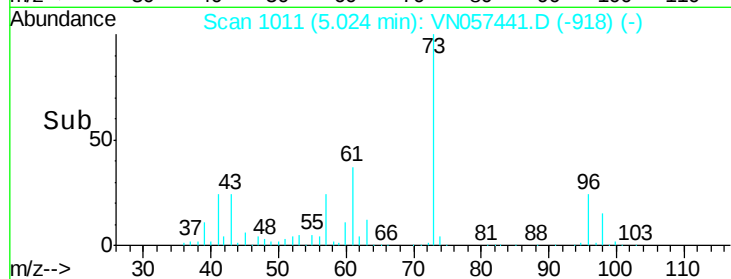
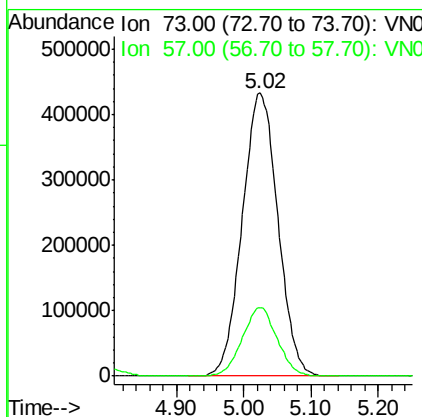
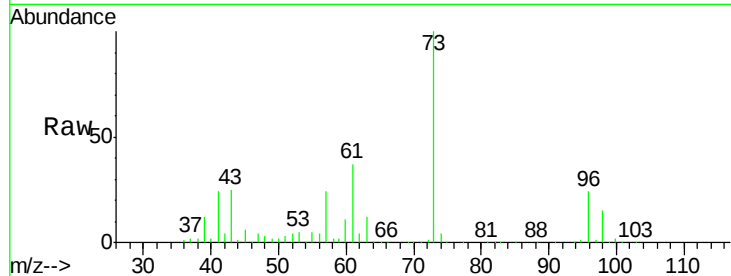
#19
Methvl tert-butvl Ether
Concen: 129.730 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 73 Resp: 1593491
Ion Ratio Lower Upper
73 100
57 24.1 19.1 28.7

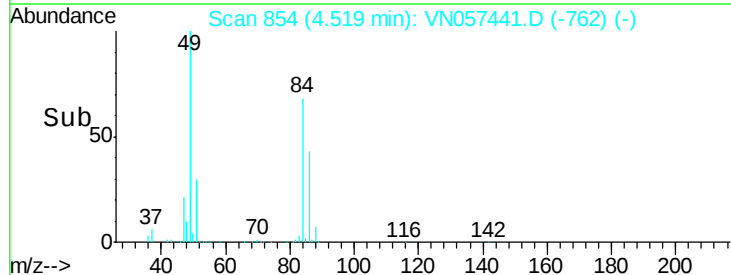
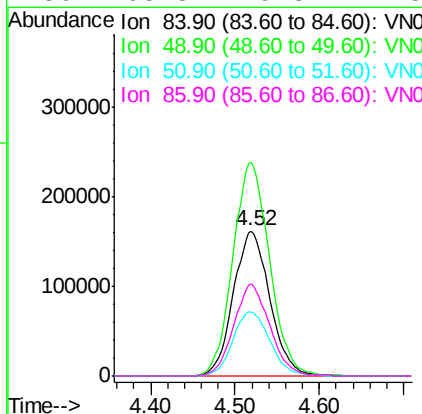
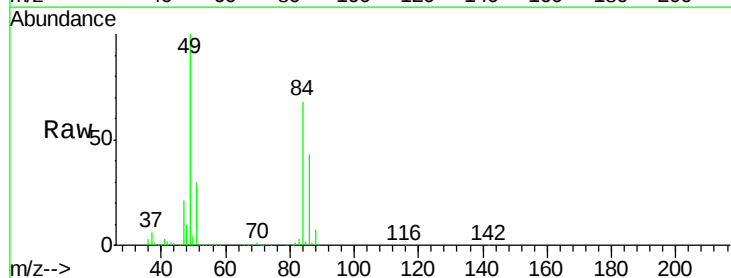
Manual Integrations
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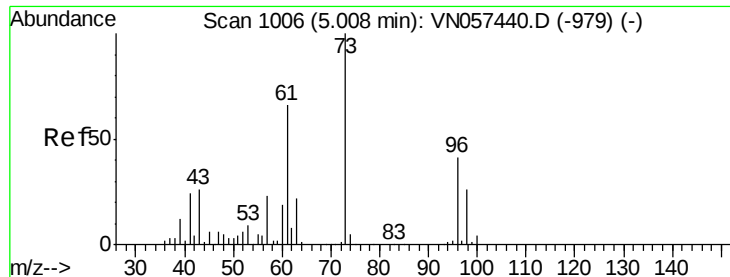
MMDadoda
8/23/2019 2:40:13 PM



#20
Methylene Chloride
Concen: 107.173 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion: 84 Resp: 487022
Ion Ratio Lower Upper
84 100
49 146.9 117.0 175.4
51 44.1 35.5 53.3
86 63.8 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 112.891 ug/l

RT: 5.01 min Scan# 1006

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 96 Resp: 460335

Ion Ratio Lower Upper

96 100

61 157.4 127.9 191.9

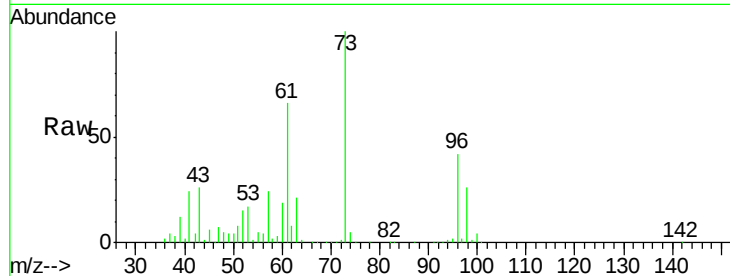
98 62.4 50.6 76.0

Manual Integrations

APPROVED

MMDadoda

8/23/2019 2:40:13 PM

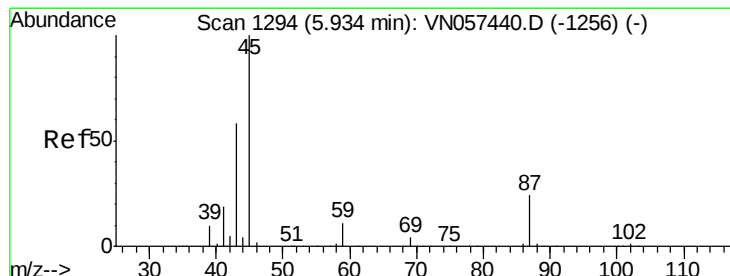
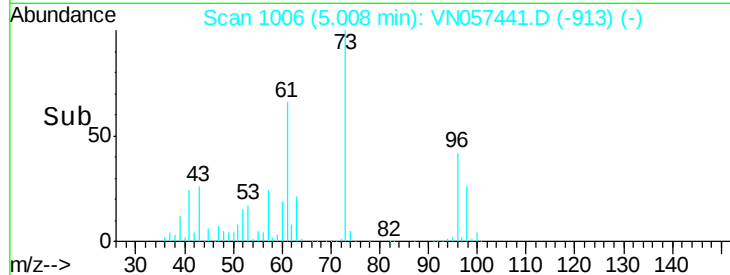
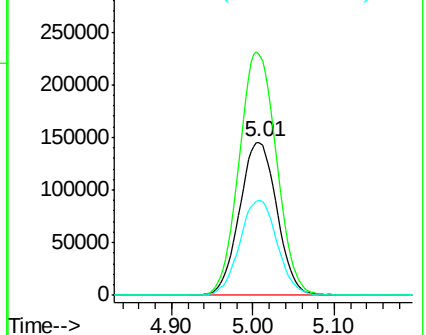


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 147.526 ug/l

RT: 5.93 min Scan# 1294

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Tgt Ion: 45 Resp: 1909544

Ion Ratio Lower Upper

45 100

43 57.8 46.9 70.3

87 23.9 19.3 28.9

59 10.5 8.7 13.1

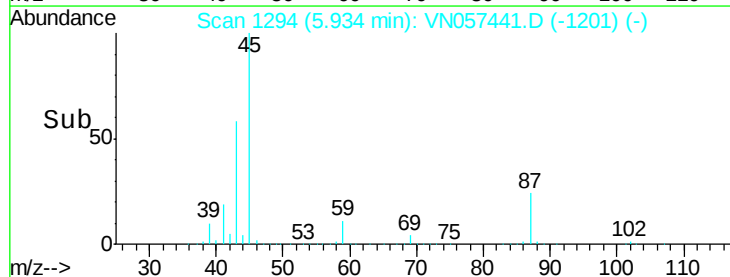
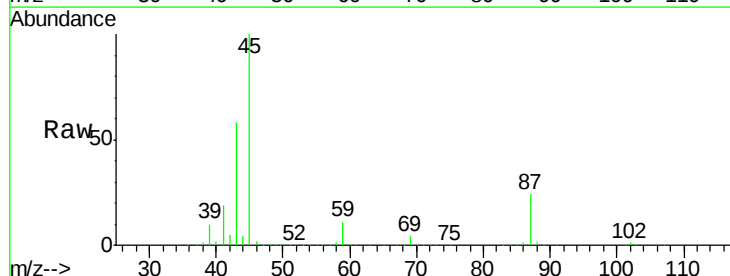
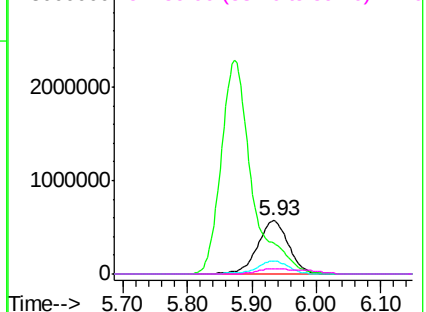
Abundance

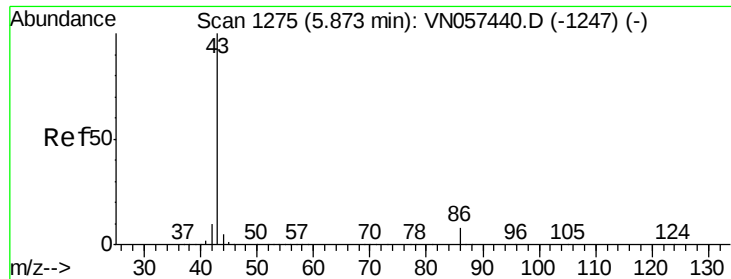
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#23

Vinyl Acetate

Concen: 736.306 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 43 Resp: 7588095

Ion Ratio Lower Upper

43 100

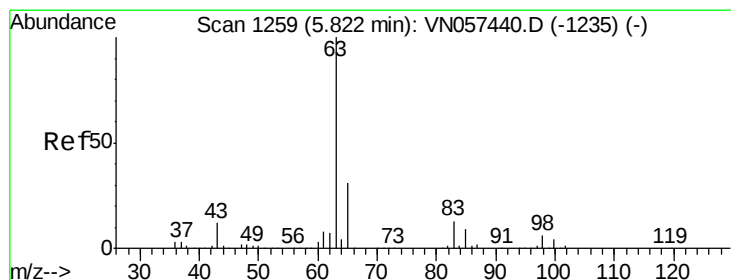
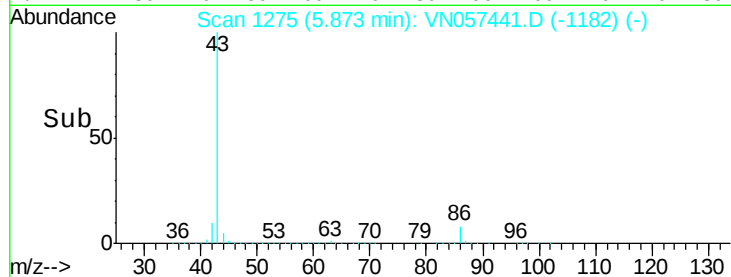
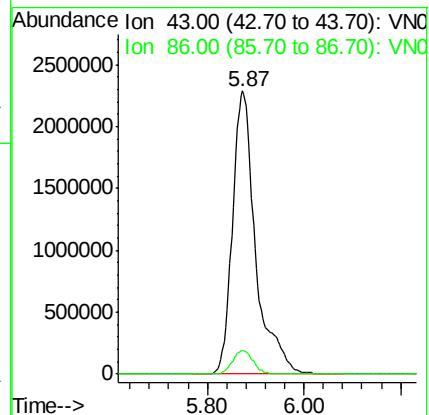
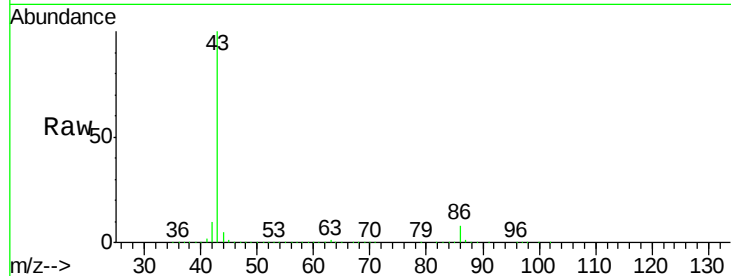
86 8.5 6.7 10.1

Manual Integrations

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MMDadoda

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#24

1,1-Dichloroethane

Concen: 130.248 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

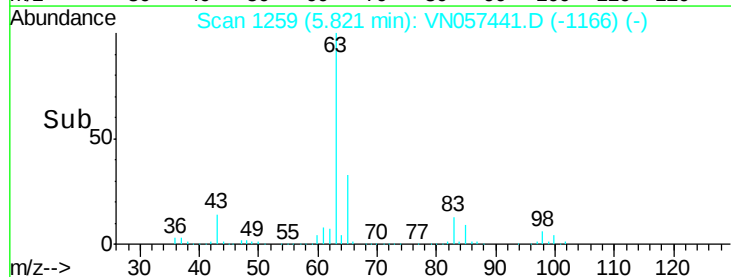
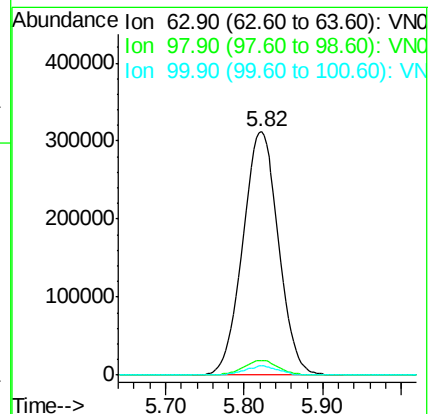
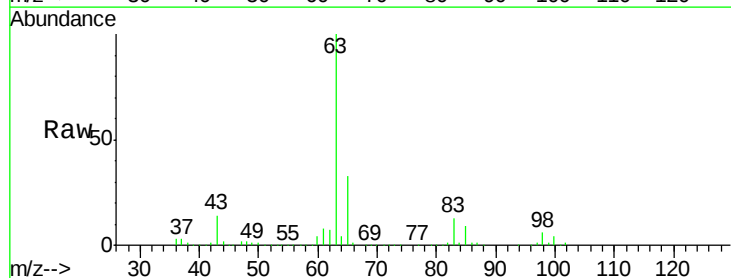
Tgt Ion: 63 Resp: 997863

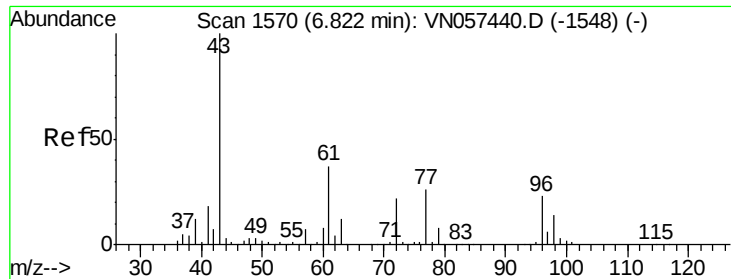
Ion Ratio Lower Upper

63 100

98 6.0 2.9 8.6

100 3.8 2.1 6.3





#25

2-Butanone

Concen: 706.897 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Tot Ion: 43 Resp: 1754103

Ion Ratio Lower Upper

43 100

72 23.3 17.8 26.8

Instrument :

MSVOA_N

ClientSampleId :

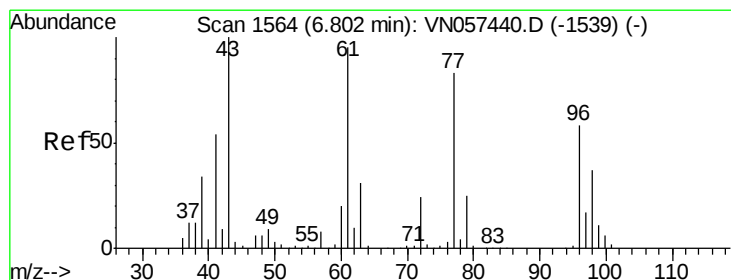
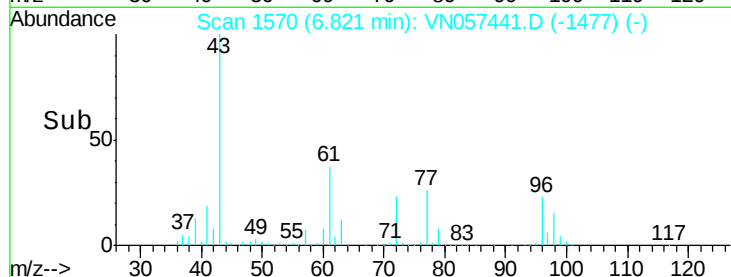
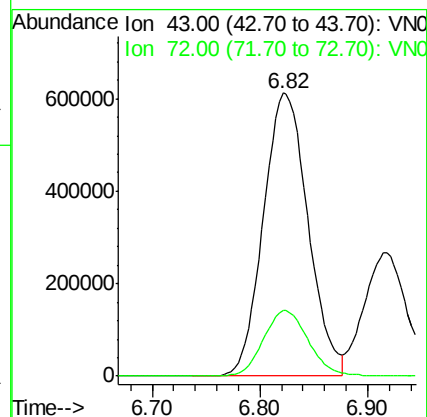
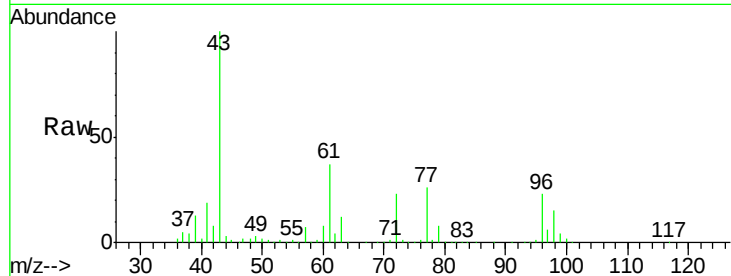
VSTDIC100

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 132.416 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN057441.D

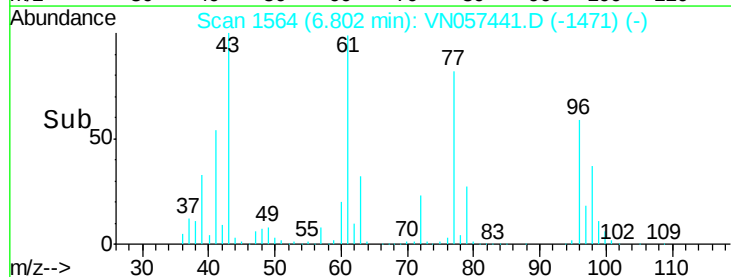
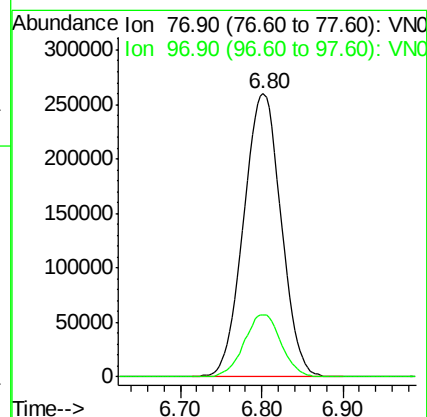
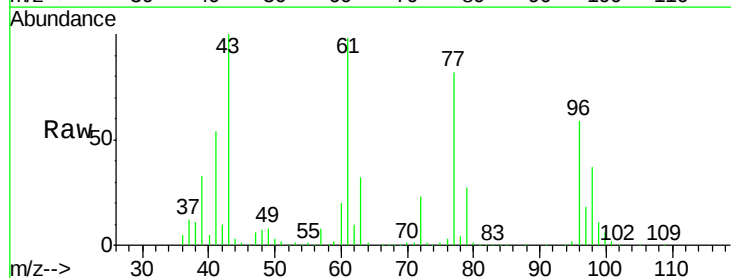
Acq: 22 Aug 2019 18:43

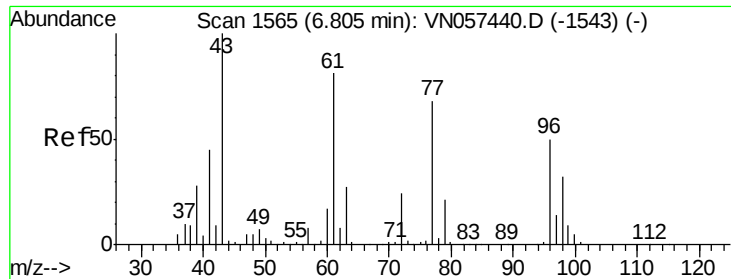
Tgt Ion: 77 Resp: 826699

Ion Ratio Lower Upper

77 100

97 21.6 10.8 32.3





#27

cis-1,2-Dichloroethene

Concen: 114.373 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

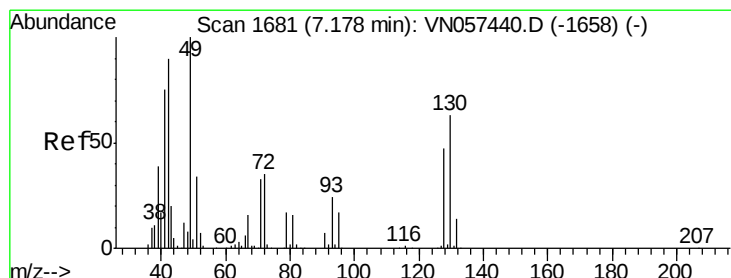
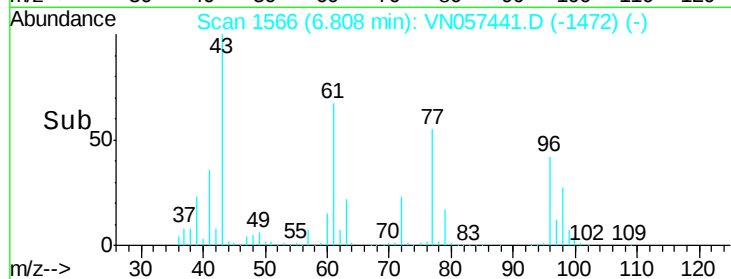
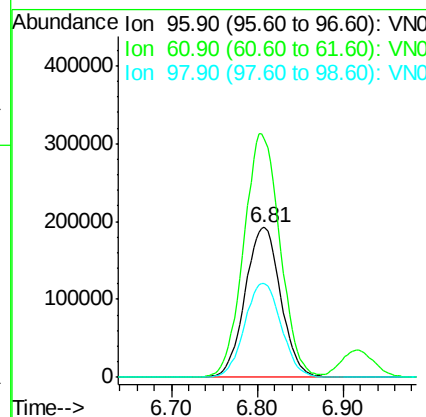
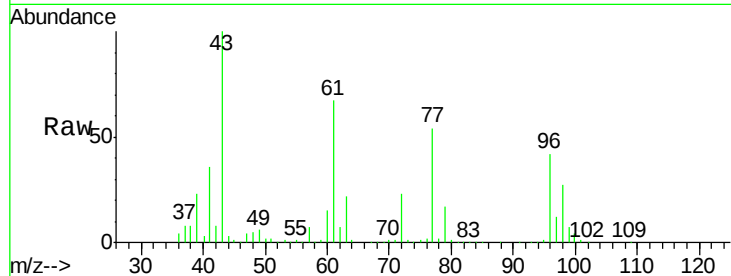
ClientSampleId :

VSTDIC100

Tot Ion:	96	Resp:	553913
Ion Ratio	Lower	Upper	
96	100		
61	165.8	0.0	334.8
98	64.4	0.0	127.4

Manual Integrations
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#28

Bromochloromethane

Concen: 156.123 ug/l

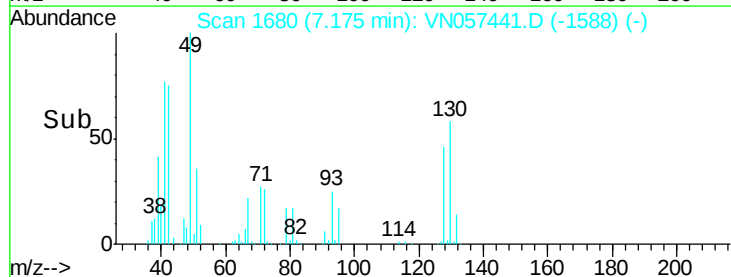
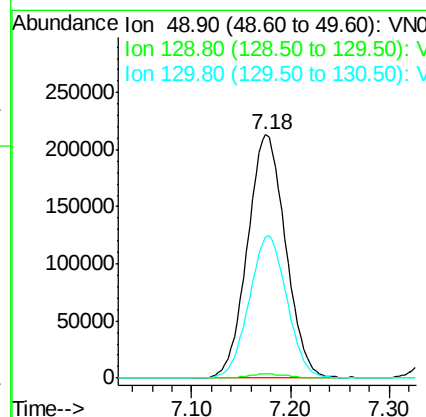
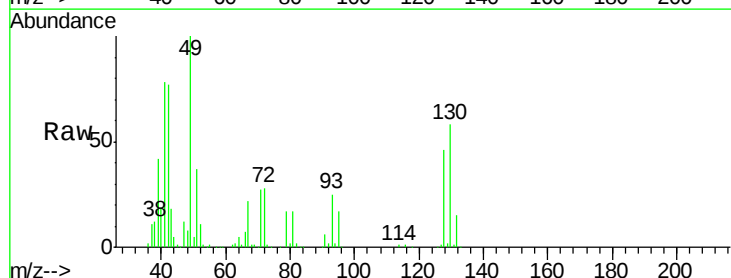
RT: 7.18 min Scan# 1680

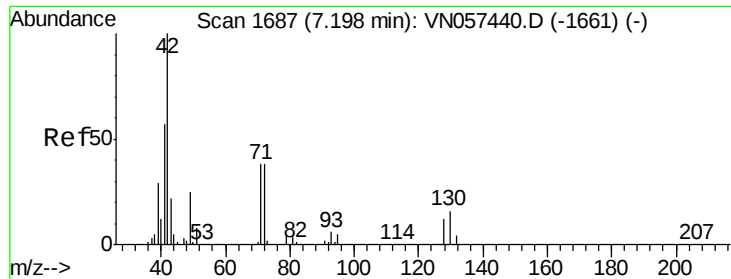
Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Tgt Ion:	49	Resp:	569396
Ion Ratio	Lower	Upper	
49	100		
129	1.7	0.0	3.6
130	57.9	48.6	72.8





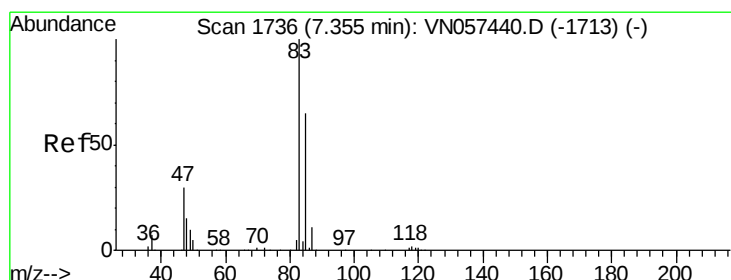
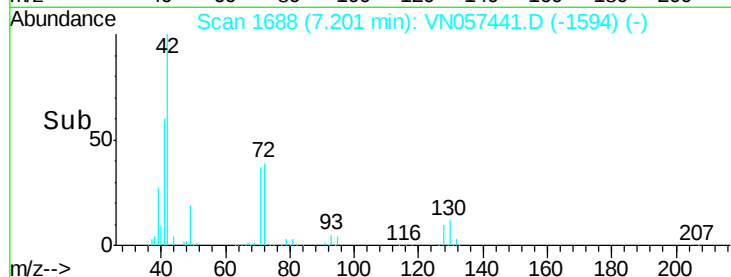
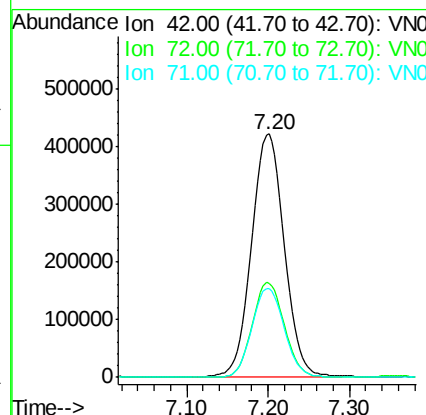
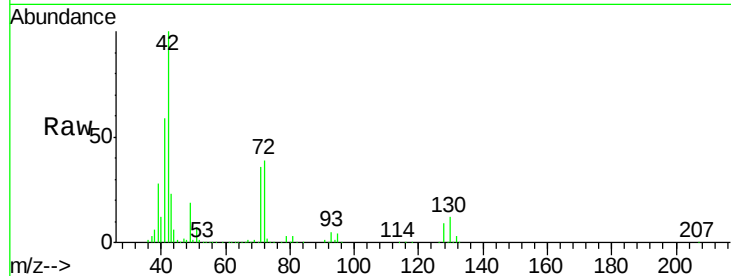
#29
Tetrahydrofuran
Concen: 731.143 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.0	30.1	45.1
71	36.5	28.8	43.2

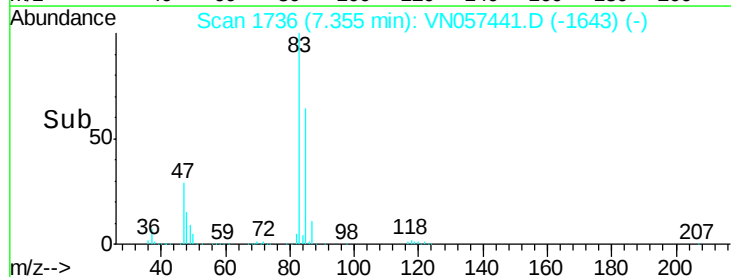
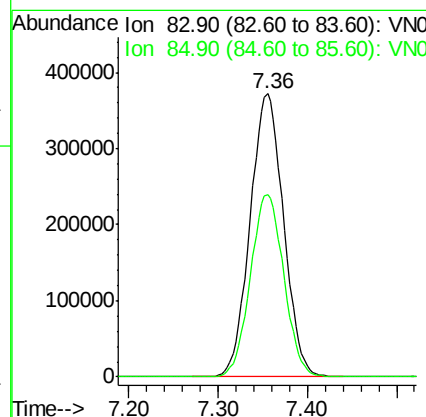
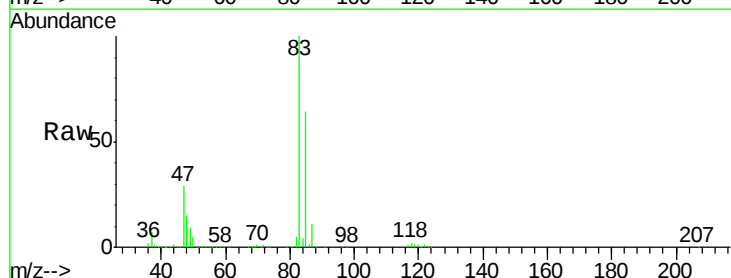
Manual Integrations
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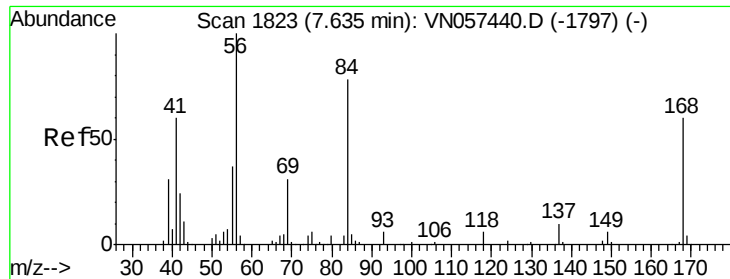
MMDadoda
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#30
Chloroform
Concen: 122.450 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.9	77.9





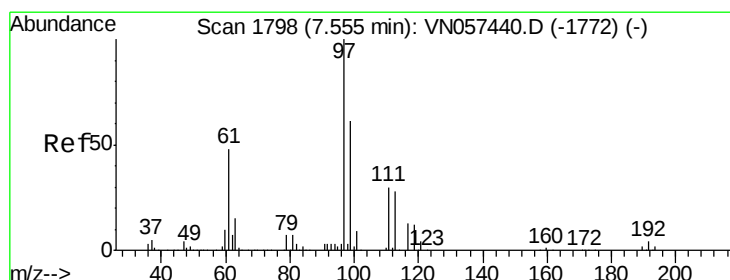
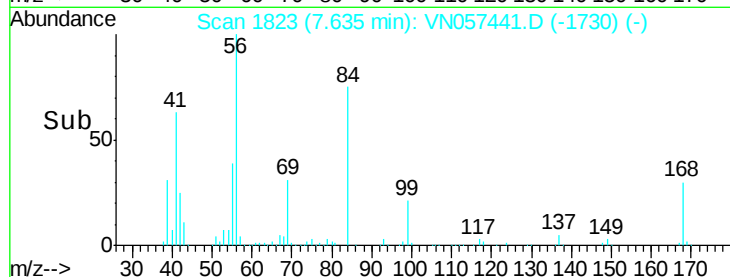
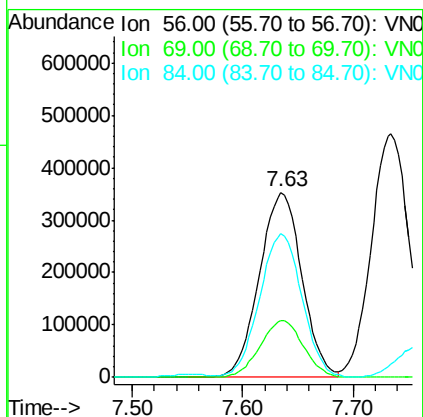
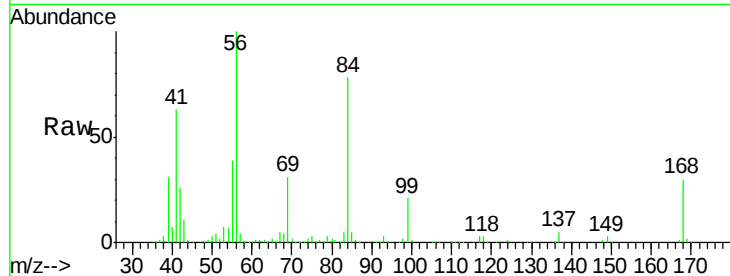
#31
Cyclohexane
Concen: 134.789 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.9	25.0	37.6
84	76.3	62.5	93.7

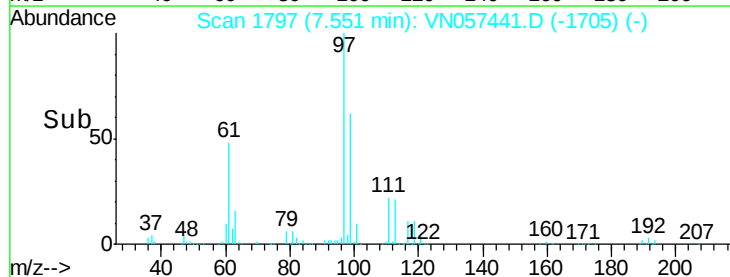
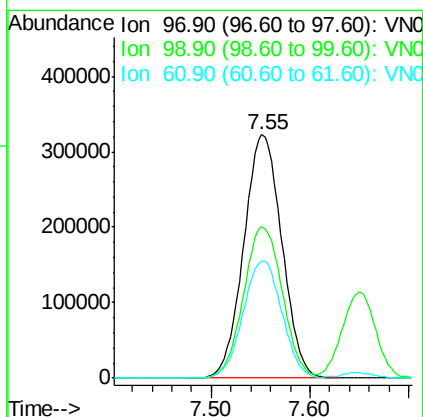
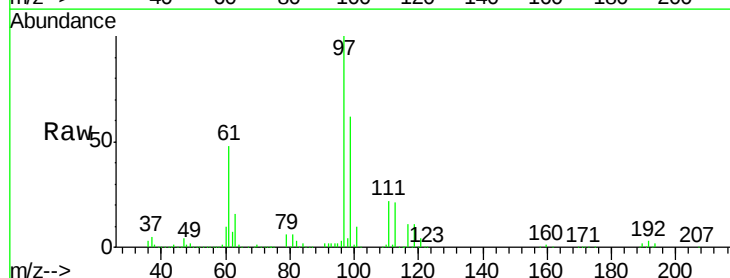
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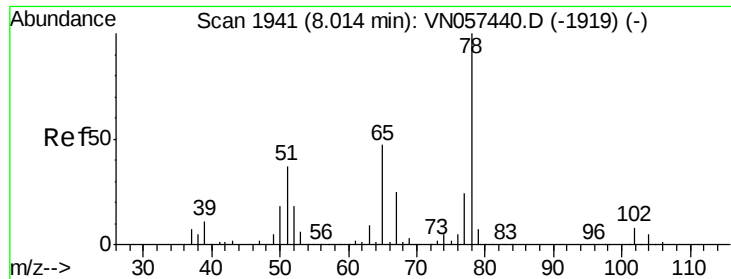
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 129.104 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.0	76.6
61	49.0	39.8	59.6





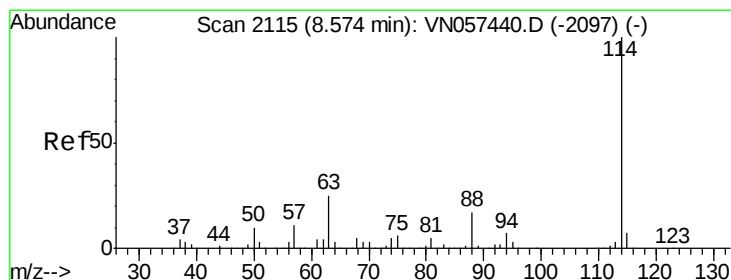
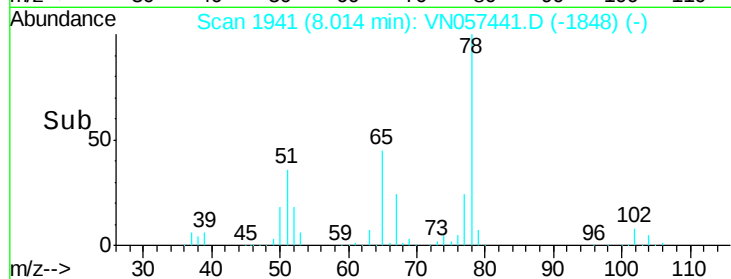
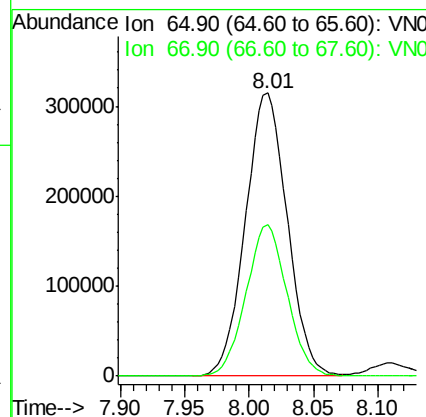
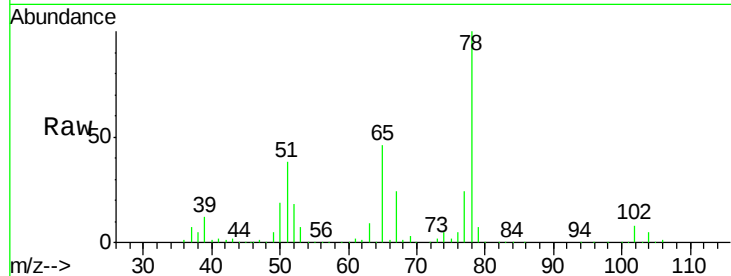
#33
 1,2-Dichloroethane-d4
 Concen: 138.325 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. -0.00 min
 Lab File: VN057441.D
 Acq: 22 Aug 2019 18:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100	711729		
67	52.5	0.0	103.8	

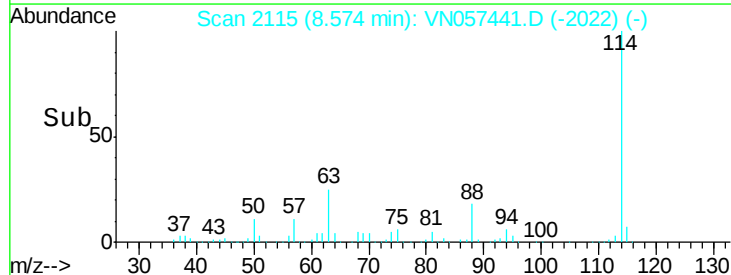
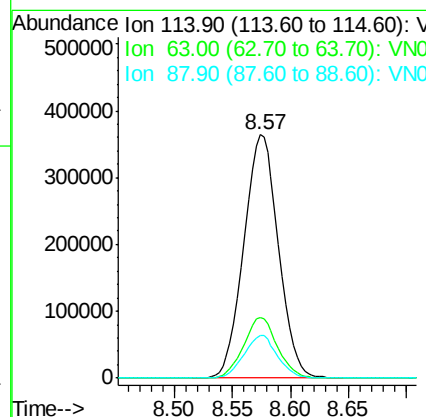
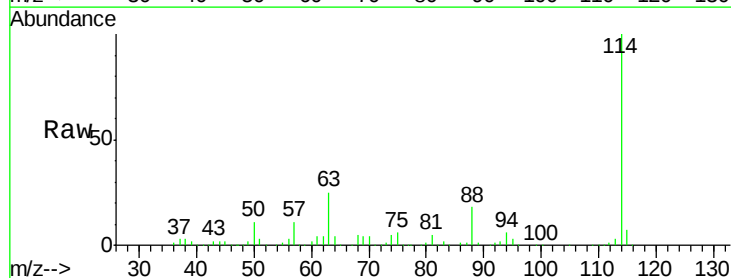
Manual Integrations
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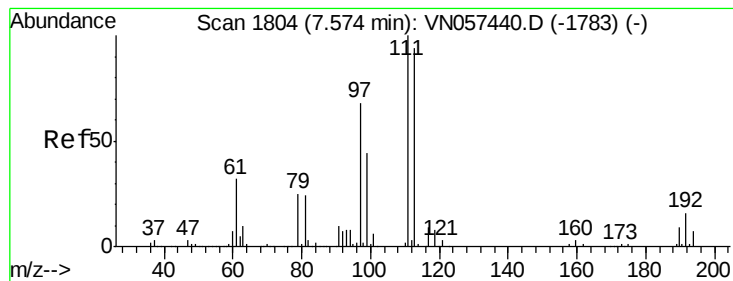
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 8/23/2019 2:40:13 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN057441.D
 Acq: 22 Aug 2019 18:43

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	754821		
63	24.8	0.0	50.2	
88	17.6	0.0	34.6	





#35

Dibromofluoromethane

Concen: 96.996 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

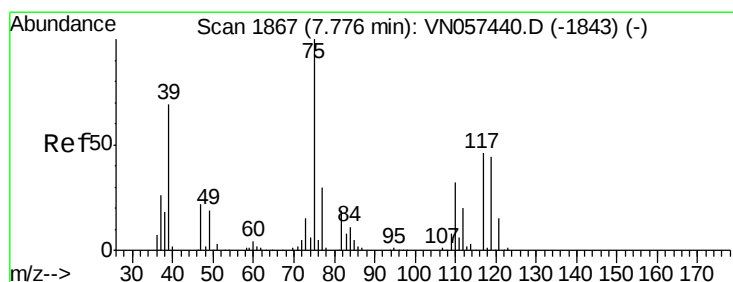
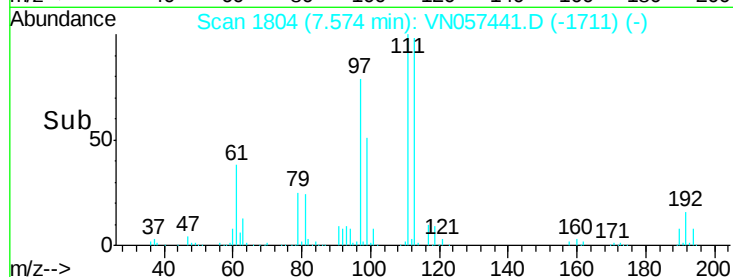
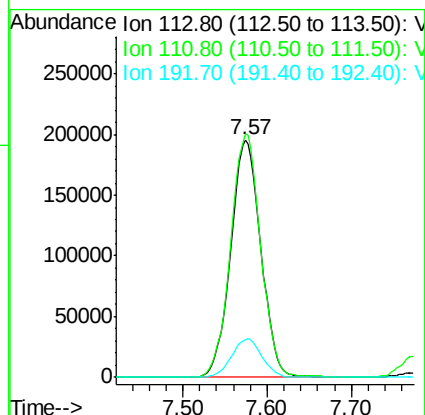
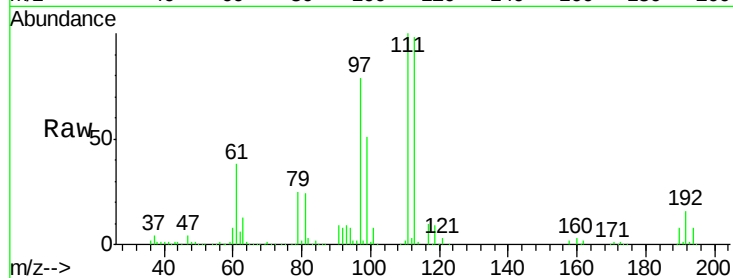
ClientSampleId :

VSTDIC100

Tot Ion:	113	Resp:	484052
Ion Ratio	Lower	Upper	
113	100		
111	102.3	83.8	125.6
192	16.4	13.5	20.3

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 106.893 ug/l

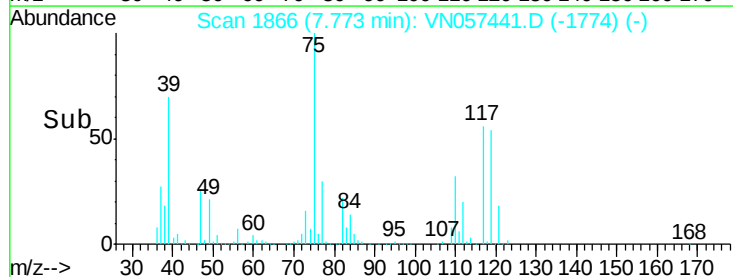
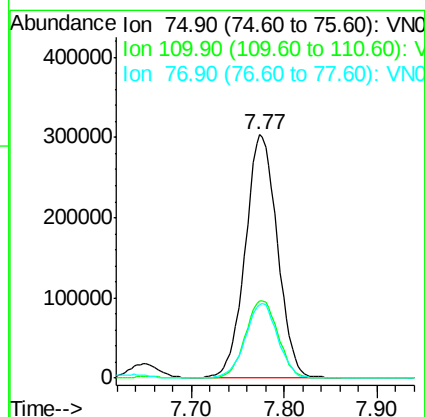
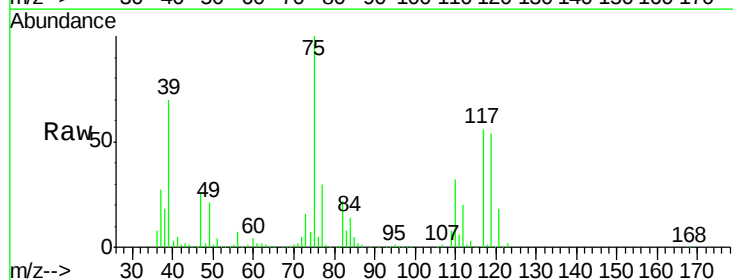
RT: 7.77 min Scan# 1866

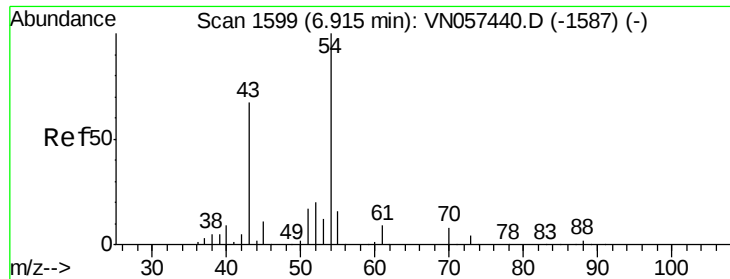
Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Tgt Ion:	75	Resp:	726253
Ion Ratio	Lower	Upper	
75	100		
110	32.5	16.1	48.3
77	30.9	24.8	37.2





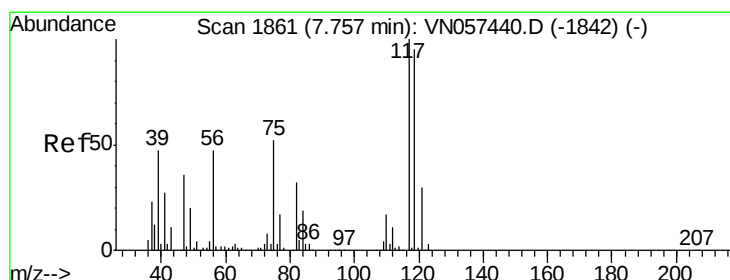
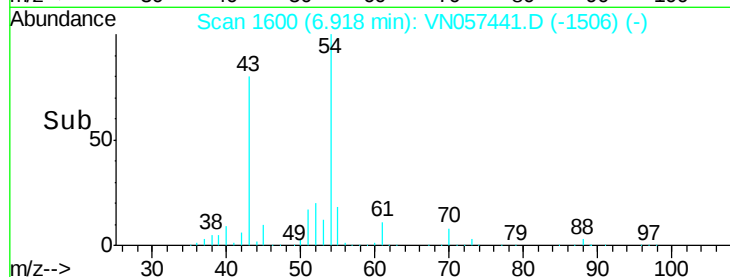
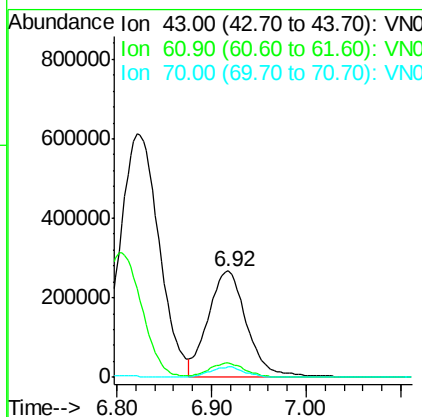
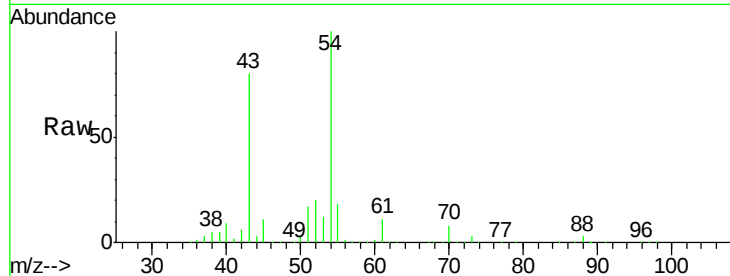
#37
Ethyl Acetate
Concen: 130.404 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleID :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.7	9.9	14.9
70	8.9	7.0	10.6

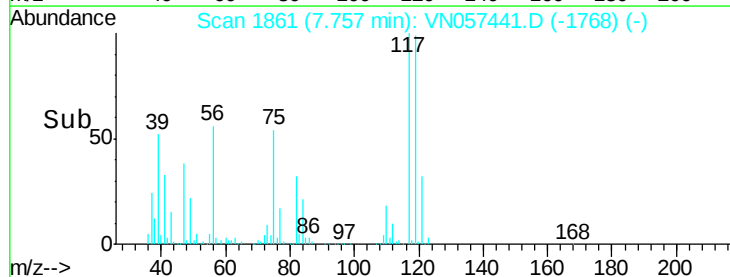
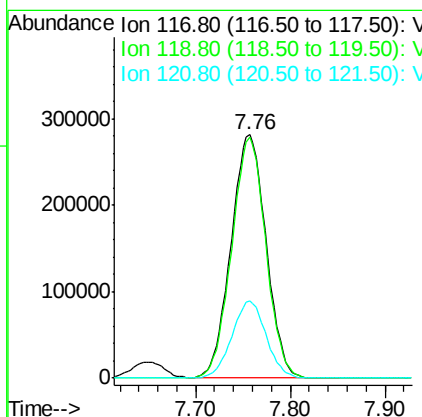
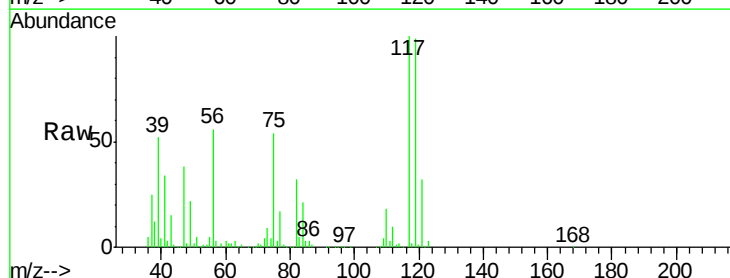
Manual Integrations
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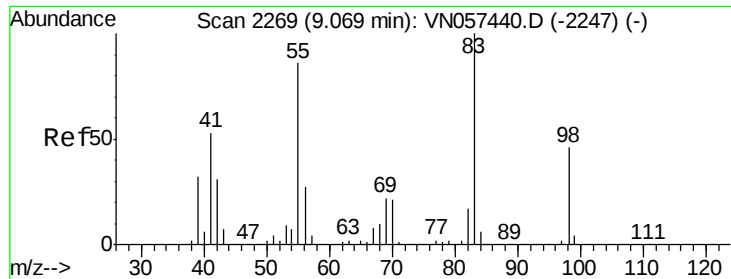
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#38
Carbon Tetrachloride
Concen: 103.603 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.7	76.2	114.4
121	31.9	23.8	35.6





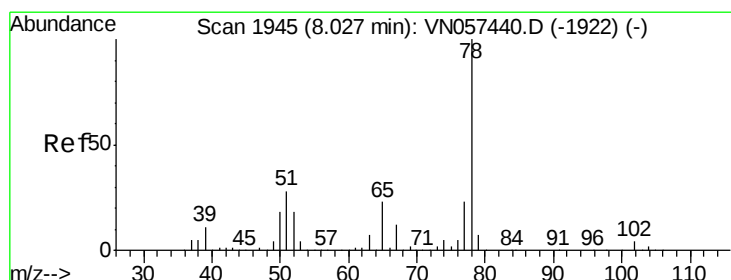
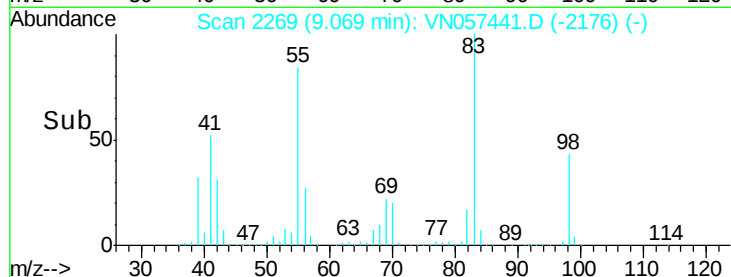
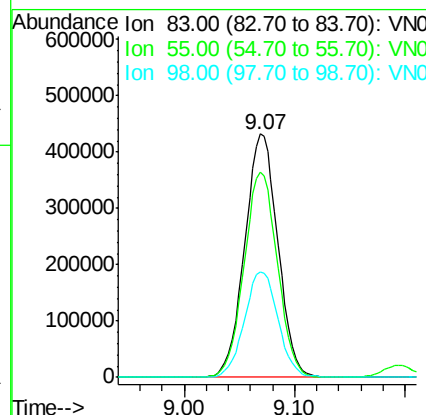
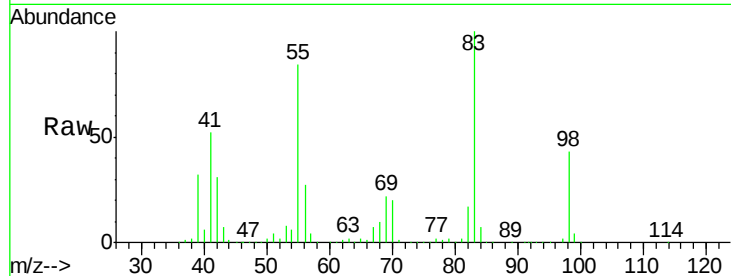
#39
Methvlcvclohexane
Concen: 112.779 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
83	100	899101		
55	84.2	68.6	102.8	
98	43.3	36.6	54.8	

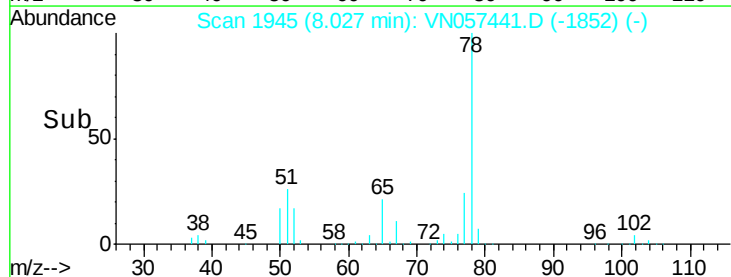
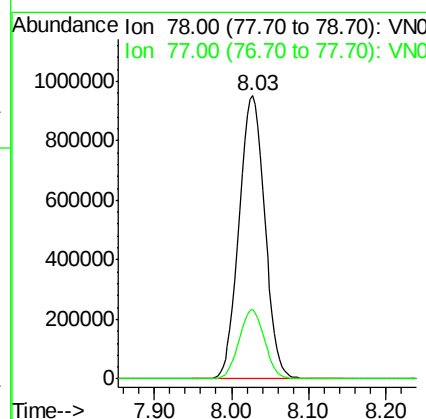
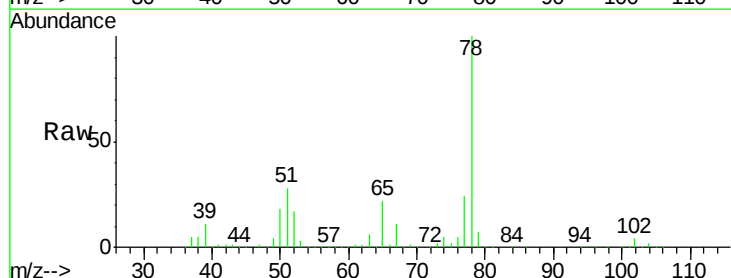
Manual Integrations
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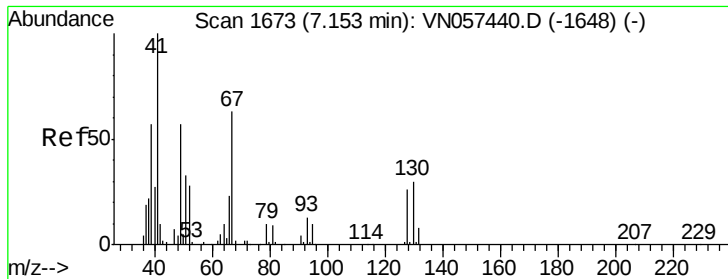
MMDadoda
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#40
Benzene
Concen: 106.073 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	2191613		
77	24.4	18.5	27.7	





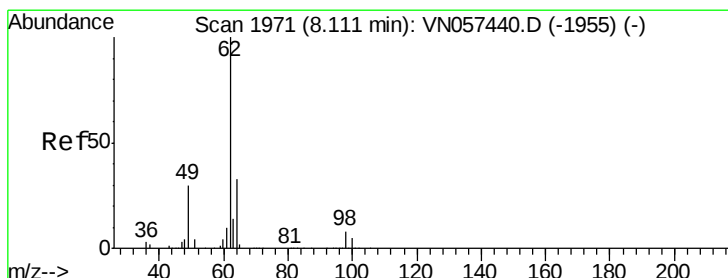
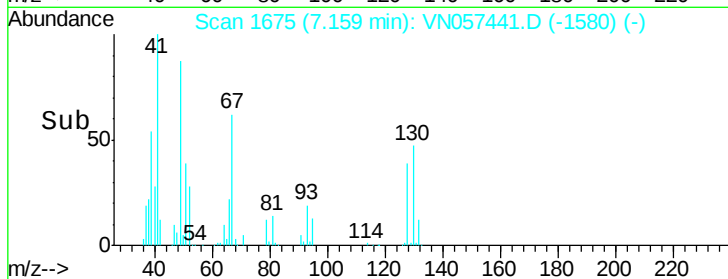
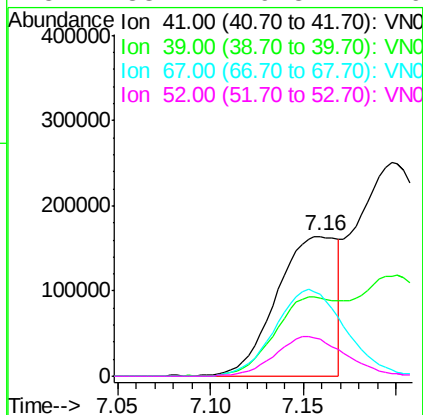
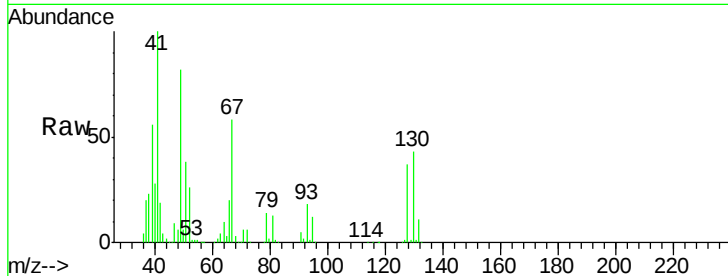
#41
Methacrylonitrile
Concen: 141.788 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. 0.01 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.2	53.6	80.4#
67	73.5	65.4	98.2
52	33.2	29.8	44.6

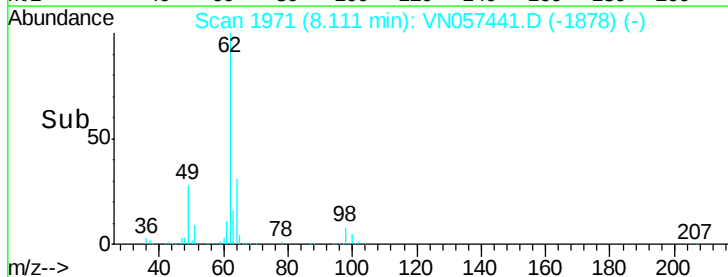
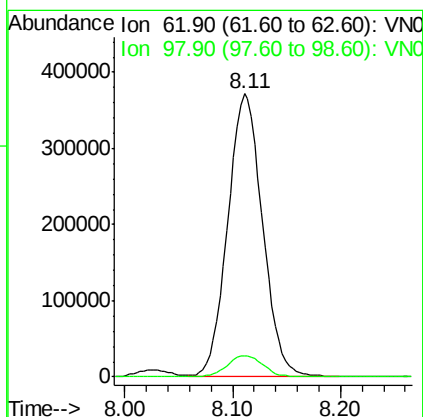
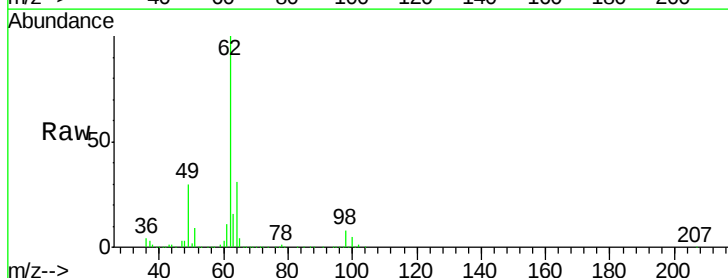
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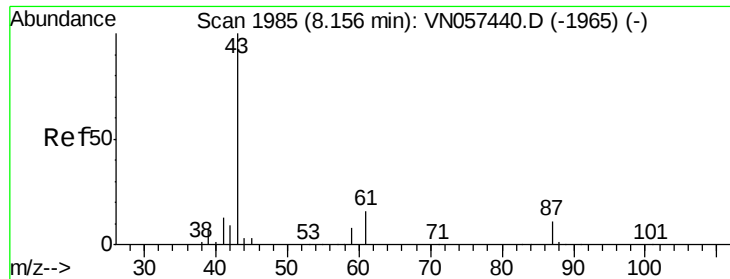
MMDadoda
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#42
1,2-Dichloroethane
Concen: 118.324 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	15.4





#43

Isopropyl Acetate

Concen: 107.951 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1326900

Ion Ratio Lower Upper

43 100

61 18.4 14.5 21.7

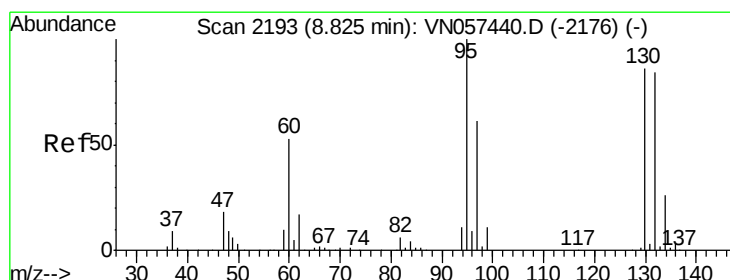
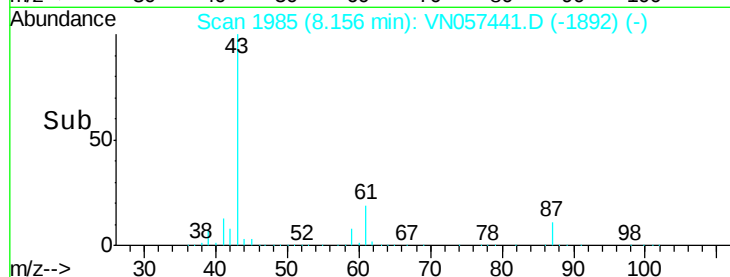
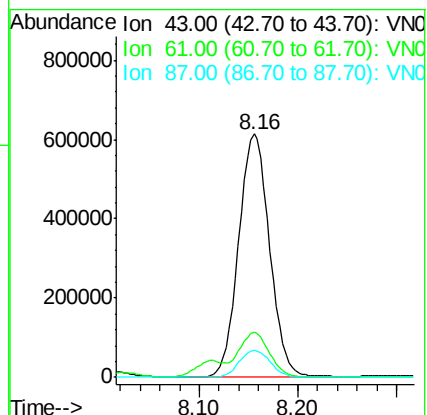
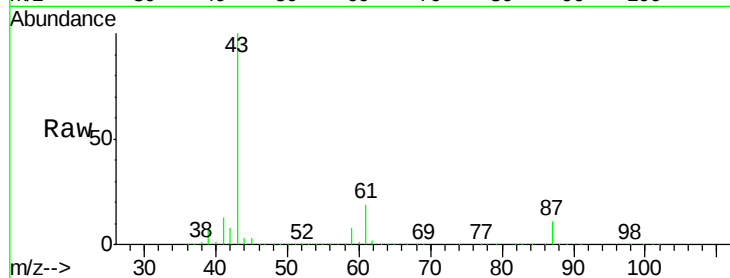
87 11.2 8.6 12.8

Manual Integrations

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#44

Trichloroethene

Concen: 87.468 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN057441.D

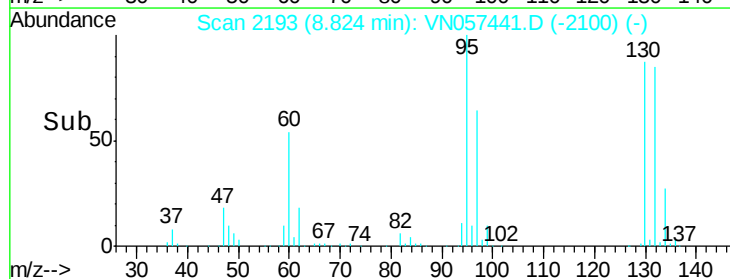
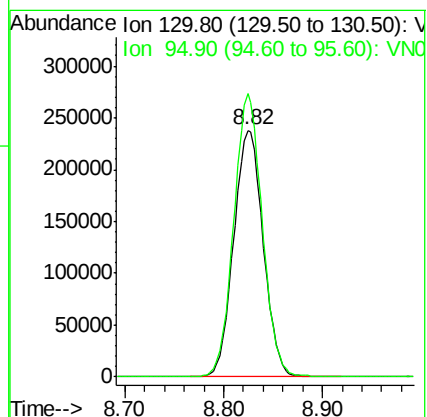
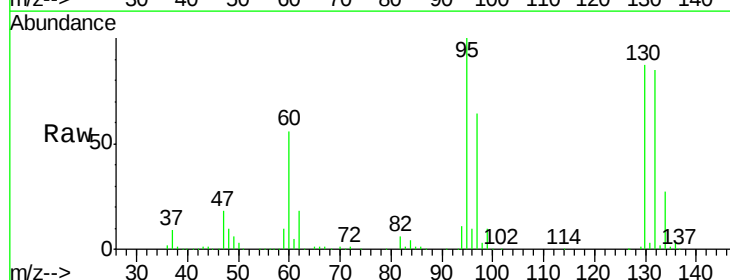
Acq: 22 Aug 2019 18:43

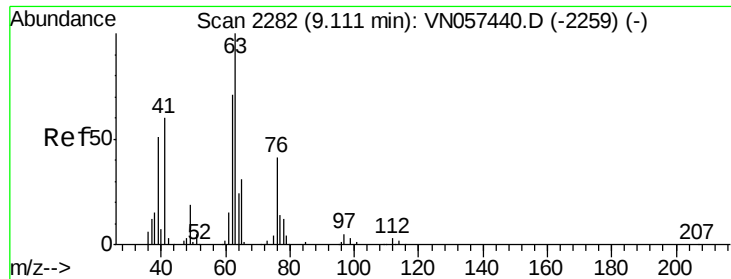
Tgt Ion: 130 Resp: 493104

Ion Ratio Lower Upper

130 100

95 114.7 0.0 231.6





#45

1,2-Dichloropropane

Concen: 113.118 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 63 Resp: 610482

Ion Ratio Lower Upper

63 100

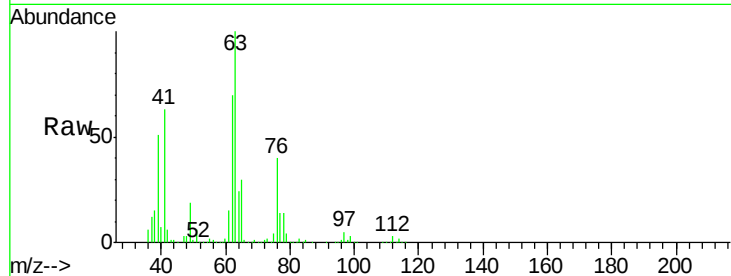
65 30.4 24.7 37.1

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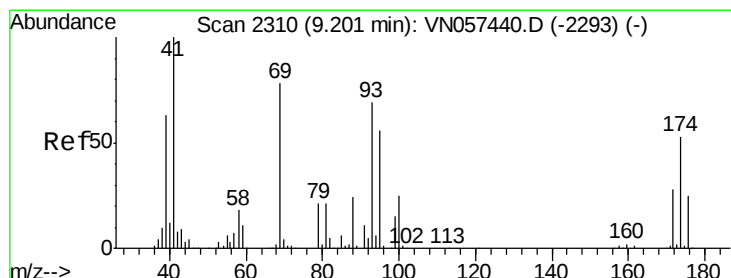
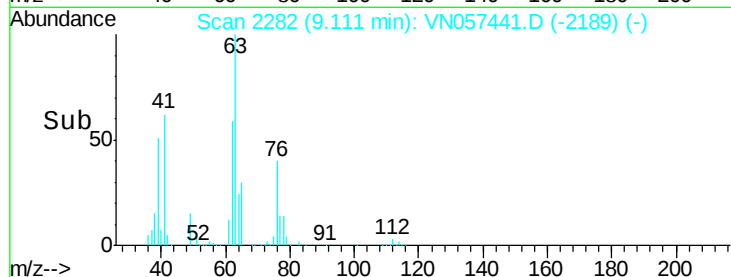
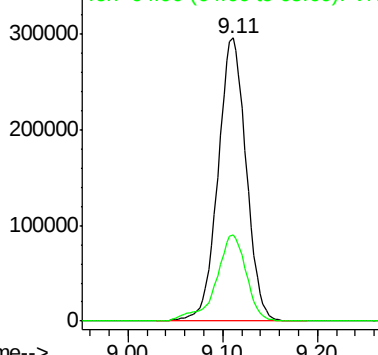
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Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#46

Dibromomethane

Concen: 108.965 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

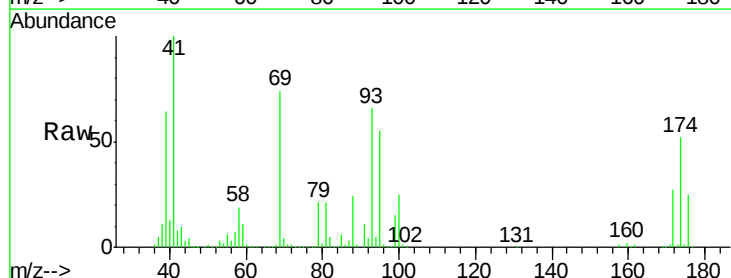
Tgt Ion: 93 Resp: 388304

Ion Ratio Lower Upper

93 100

95 82.1 64.7 97.1

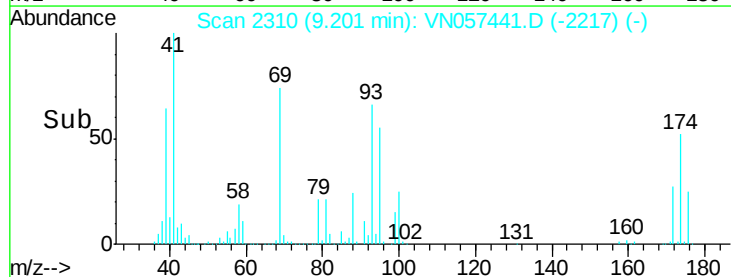
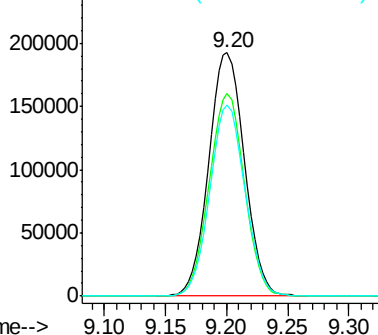
174 77.5 62.3 93.5

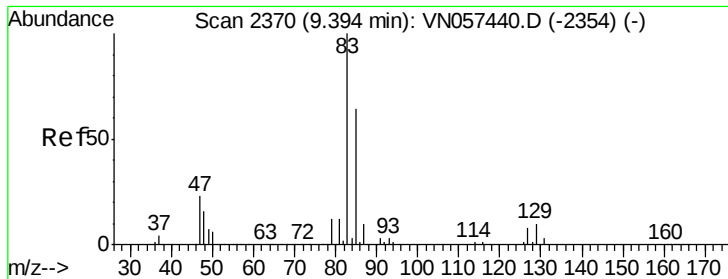


Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO





#47

Bromodichloromethane

Concen: 114.693 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

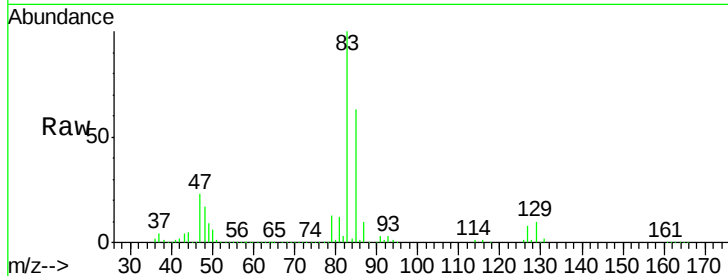
ClientSampled :

VSTDIC100

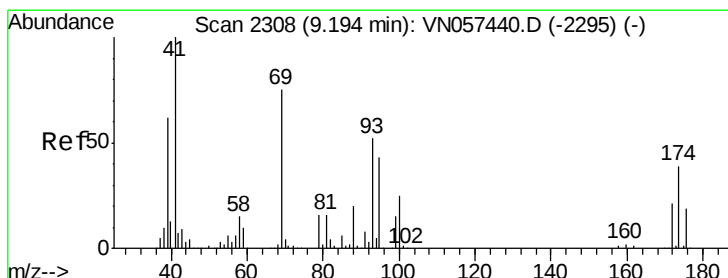
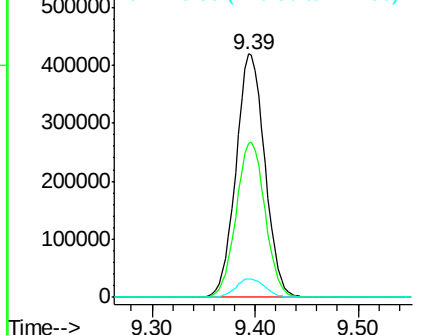
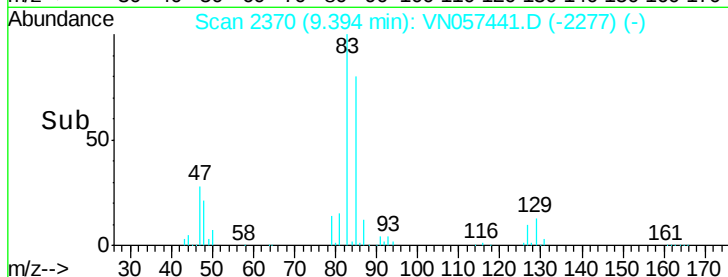
Tot Ion:	83	Resp:	816245
Ion Ratio	Lower	Upper	
83	100		
85	63.1	51.2	76.8
127	7.7	6.6	10.0

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Abundance Ion 82.90 (82.60 to 83.60): VN057441.D (-2277) (-)



#48

Methyl methacrylate

Concen: 135.027 ug/l

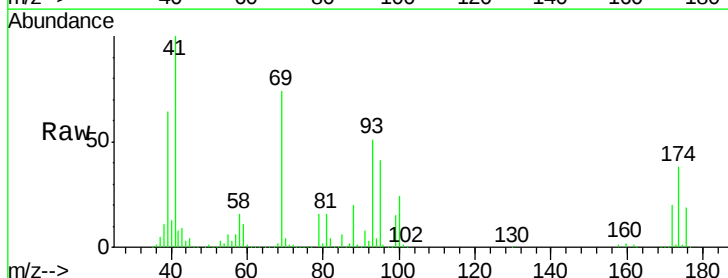
RT: 9.19 min Scan# 2308

Delta R.T. -0.00 min

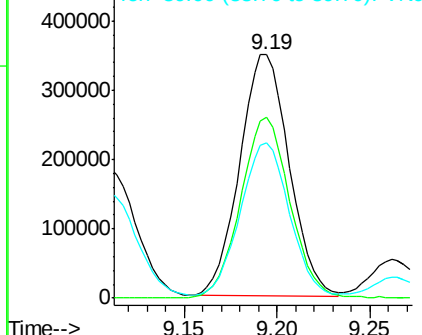
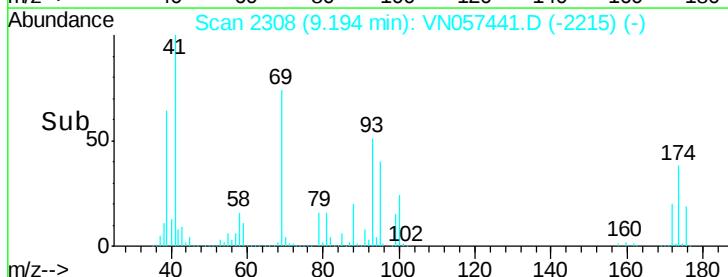
Lab File: VN057441.D

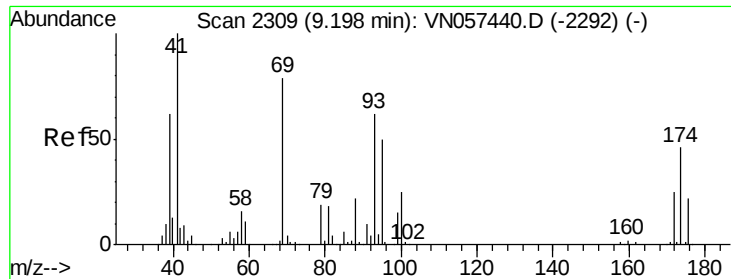
Acq: 22 Aug 2019 18:43

Tgt Ion:	41	Resp:	646703
Ion Ratio	Lower	Upper	
41	100		
69	74.9	59.3	88.9
39	64.7	50.6	75.8



Abundance Ion 41.00 (40.70 to 41.70): VN057441.D (-2215) (-)





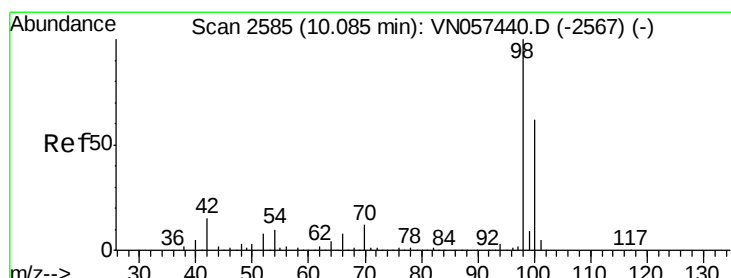
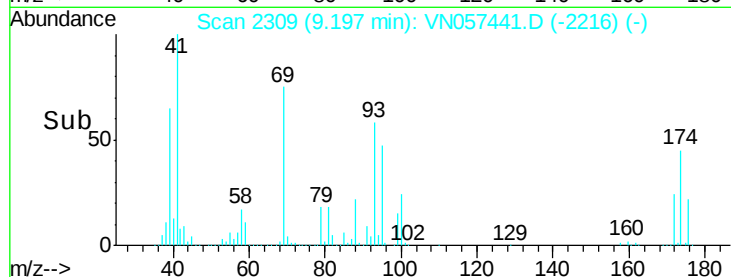
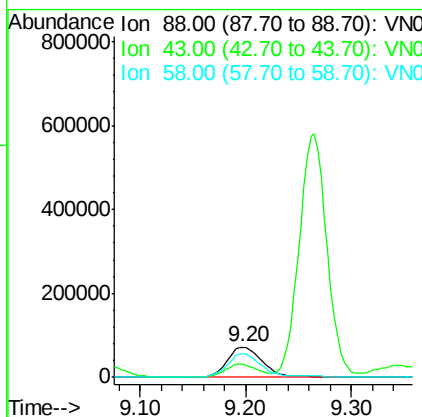
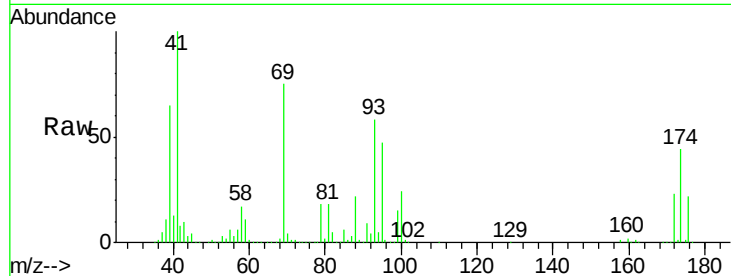
#49
1,4-Dioxane
Concen: 1834.687 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
88	100	168179		
43	37.4	31.0	46.6	
58	74.2	64.5	96.7	

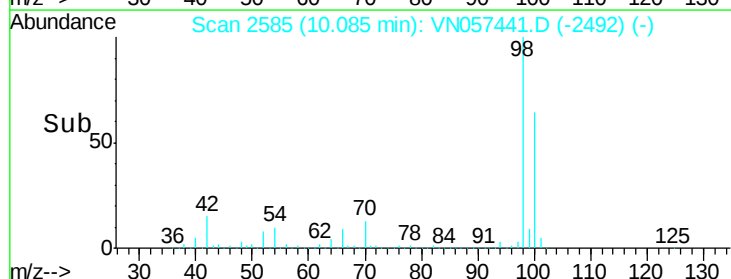
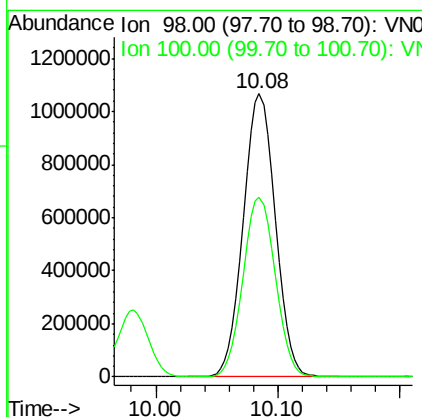
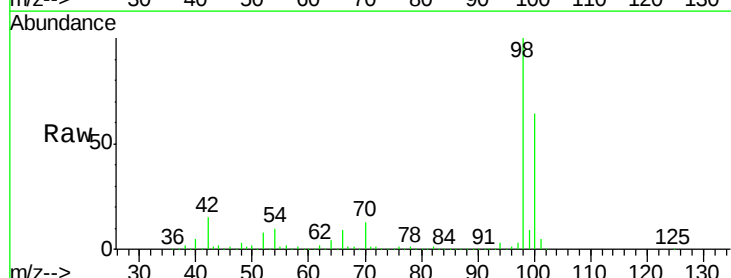
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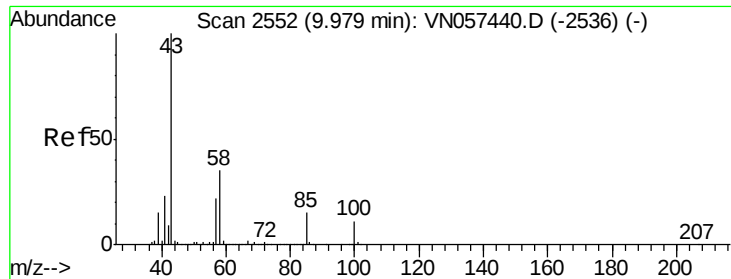
MMDadoda
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#50
Toluene-d8
Concen: 104.815 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	1931067		
100	63.9	50.4	75.6	





#51

4-Methyl-2-Pentanone

Concen: 646.803 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 3836905

Ion Ratio Lower Upper

43 100

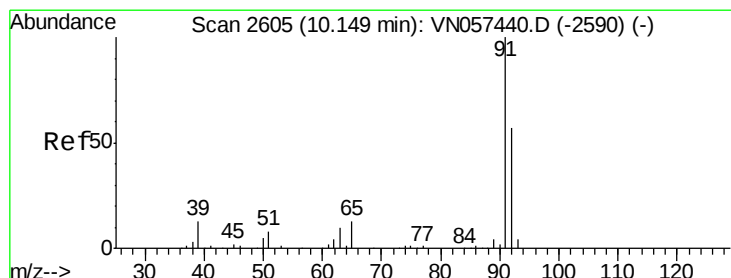
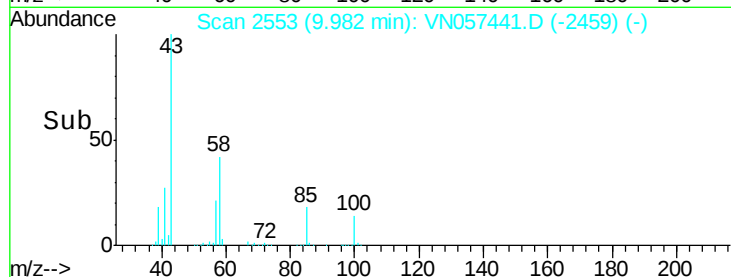
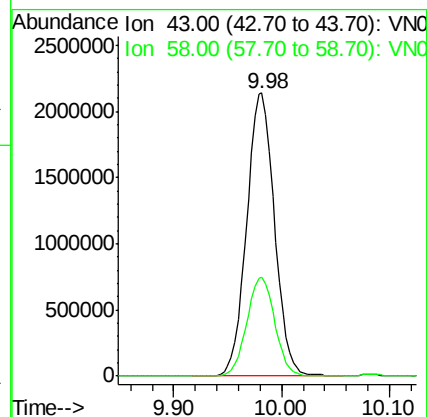
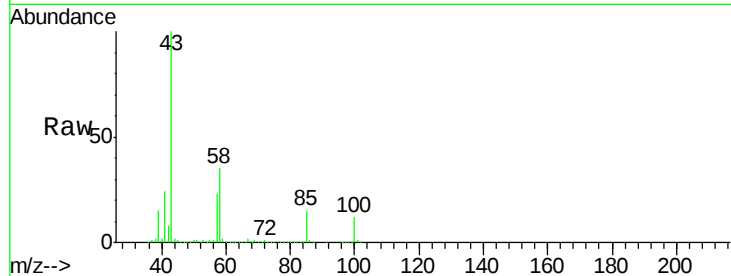
58 35.0 27.9 41.9

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#52

Toluene

Concen: 106.177 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN057441.D

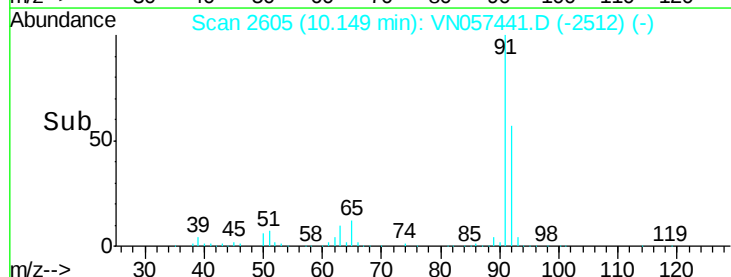
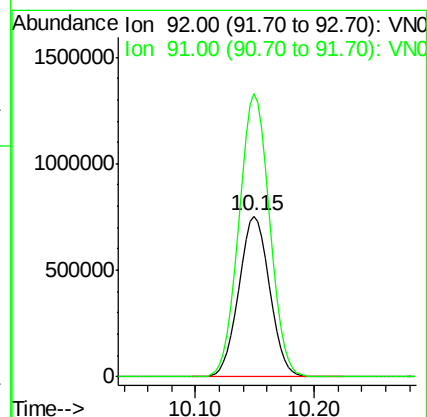
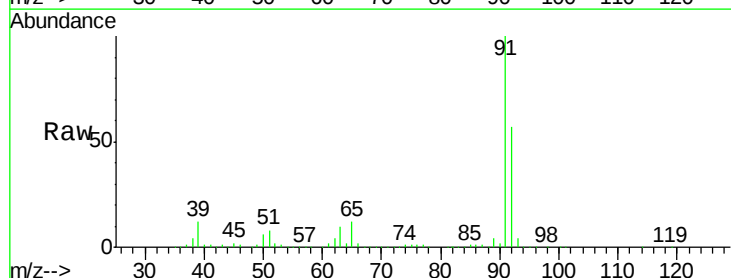
Acq: 22 Aug 2019 18:43

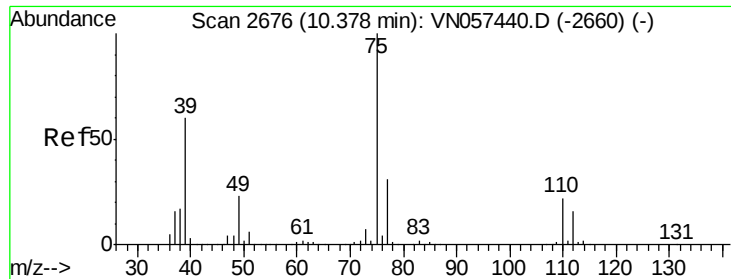
Tgt Ion: 92 Resp: 1350274

Ion Ratio Lower Upper

92 100

91 175.9 140.9 211.3





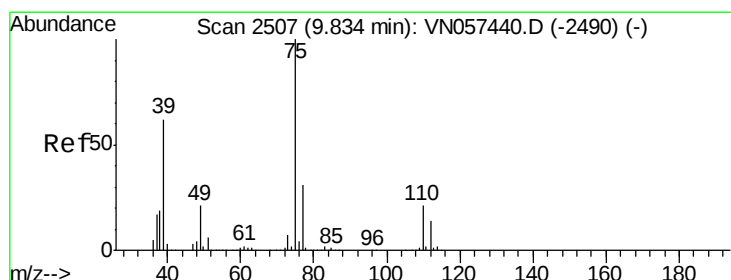
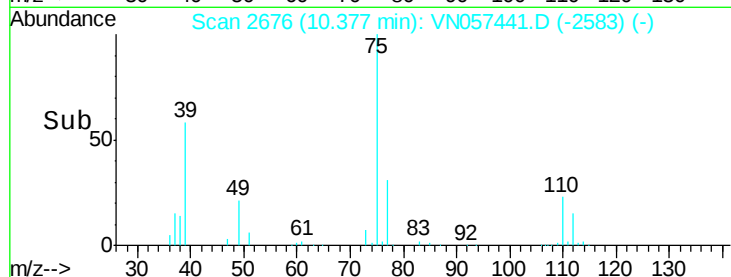
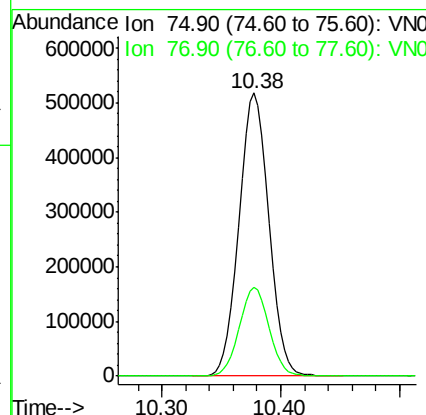
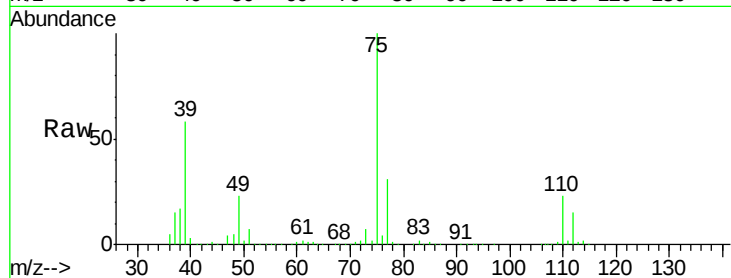
#53
t-1,3-Dichloropropene
Concen: 117.755 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.6

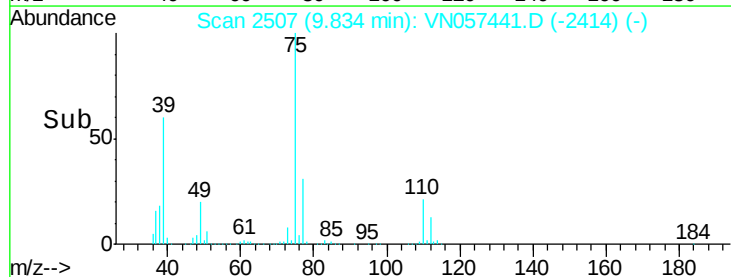
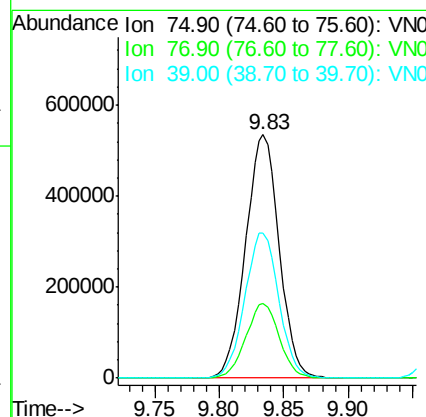
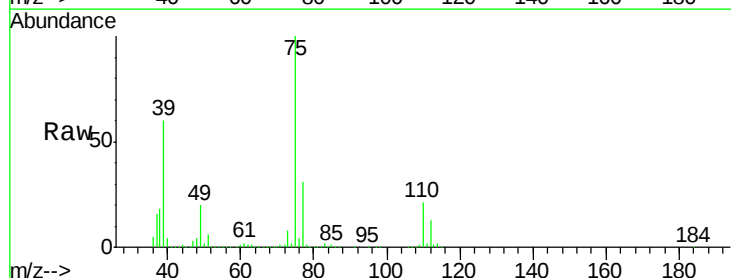
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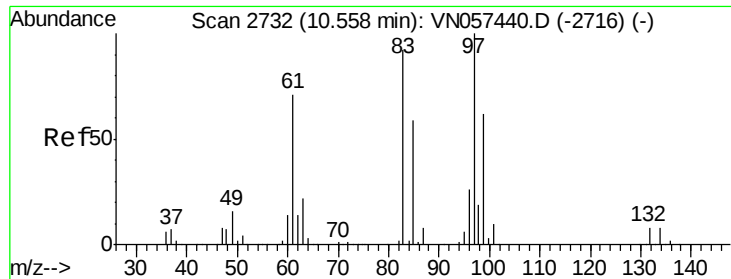
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 114.940 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.0	37.6
39	59.7	49.2	73.8





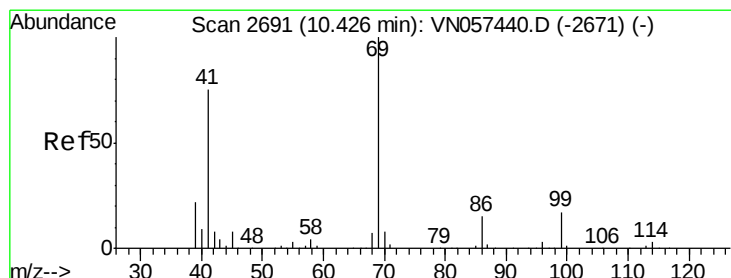
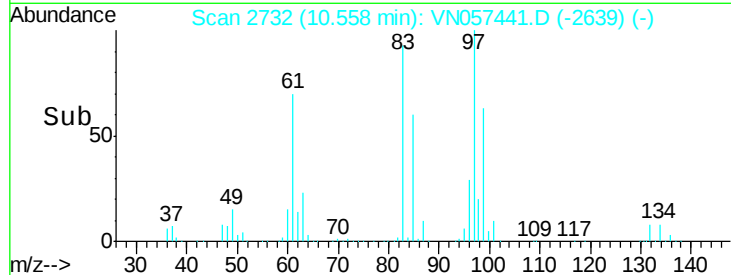
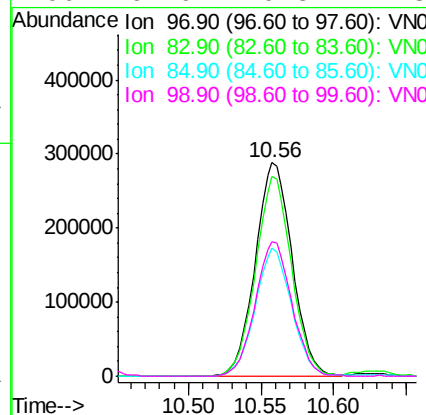
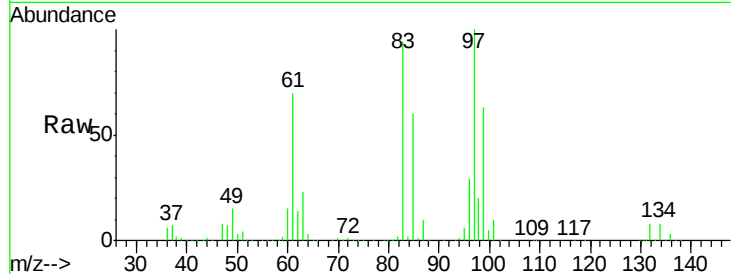
#55
 1,1,2-Trichloroethane
 Concen: 102.277 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VN057441.D
 Acq: 22 Aug 2019 18:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:	97	Resp:	511077
Ion	Ratio	Lower	Upper
97	100		
83	93.5	73.7	110.5
85	59.6	46.8	70.2
99	62.9	49.8	74.8

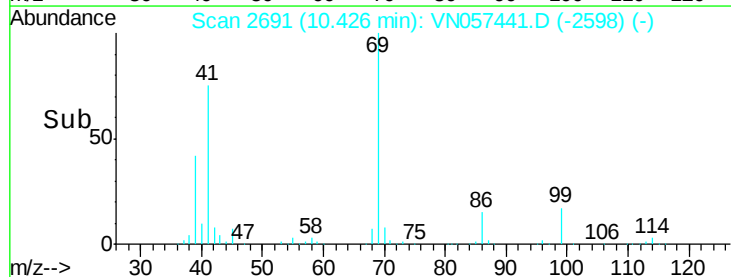
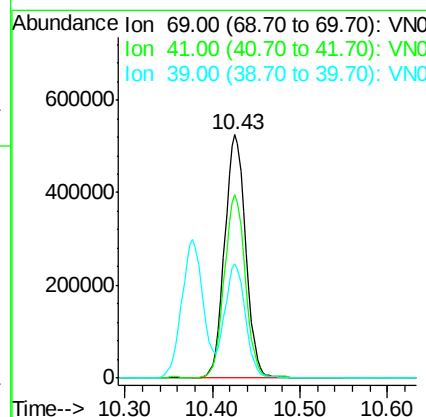
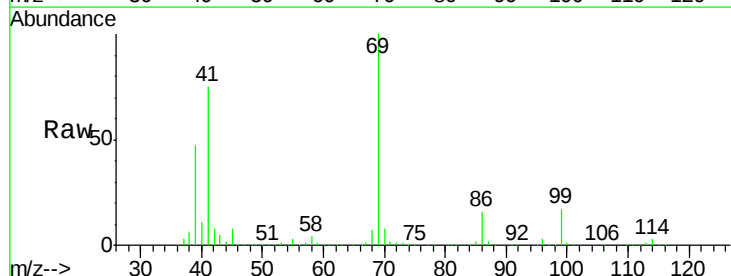
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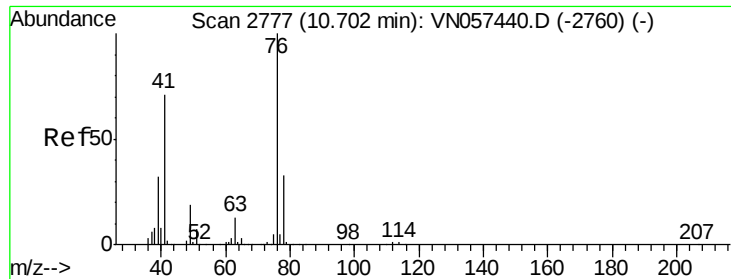
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#56
 Ethyl methacrylate
 Concen: 118.496 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN057441.D
 Acq: 22 Aug 2019 18:43

Tgt Ion:	69	Resp:	877392
Ion	Ratio	Lower	Upper
69	100		
41	74.1	60.8	91.2
39	45.7	36.5	54.7





#57

1,3-Dichloropropane

Concen: 108.836 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 919726

Ion Ratio Lower Upper

76 100

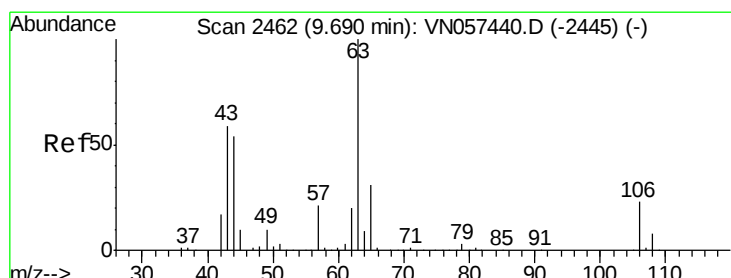
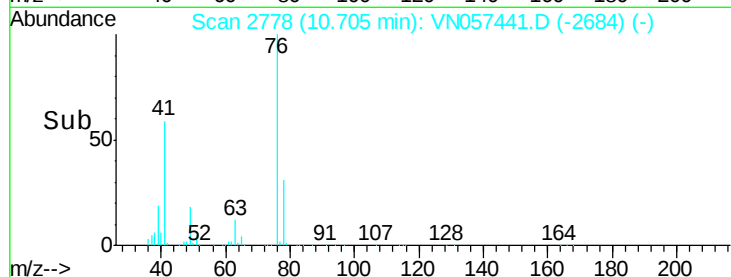
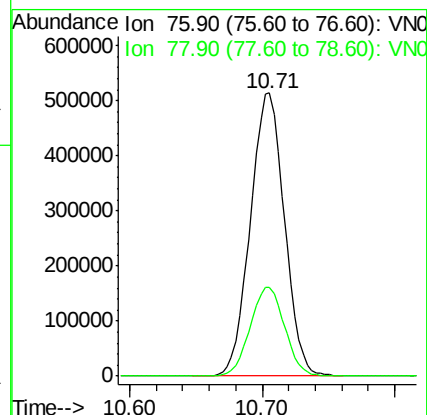
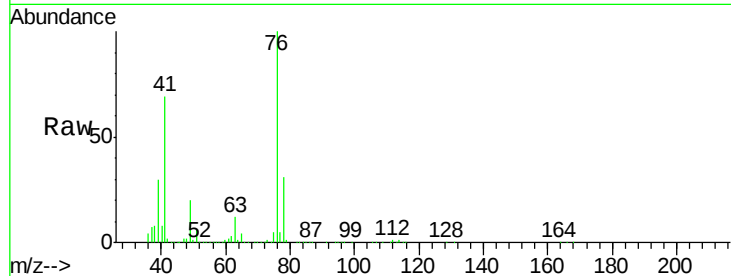
78 31.9 25.5 38.3

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 652.706 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VN057441.D

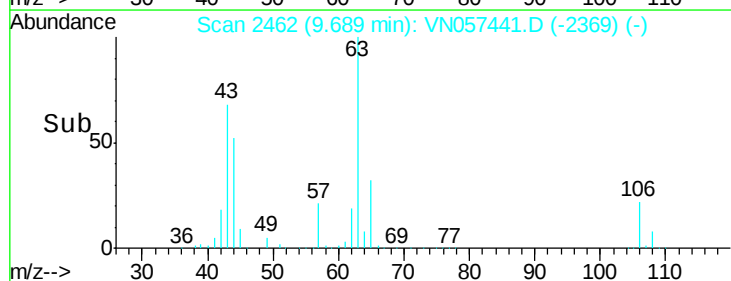
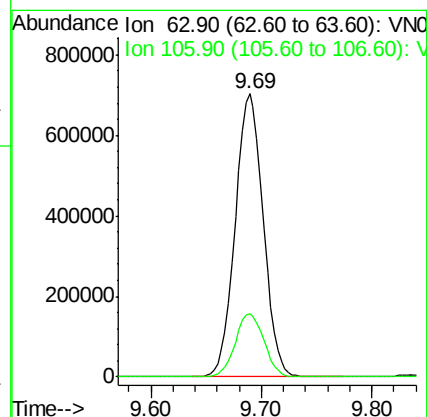
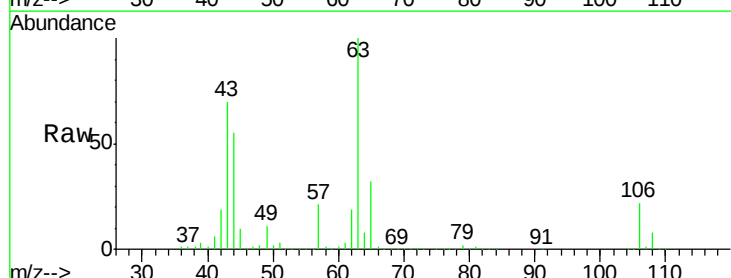
Acq: 22 Aug 2019 18:43

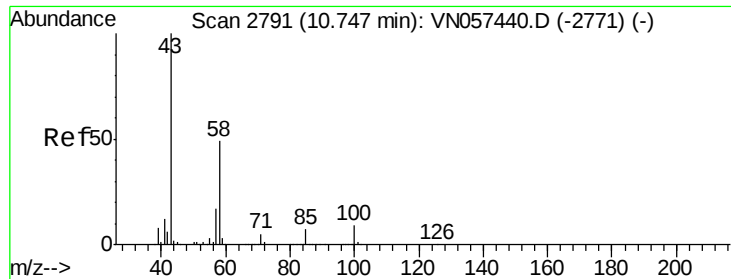
Tgt Ion: 63 Resp: 1240090

Ion Ratio Lower Upper

63 100

106 23.0 18.6 27.8





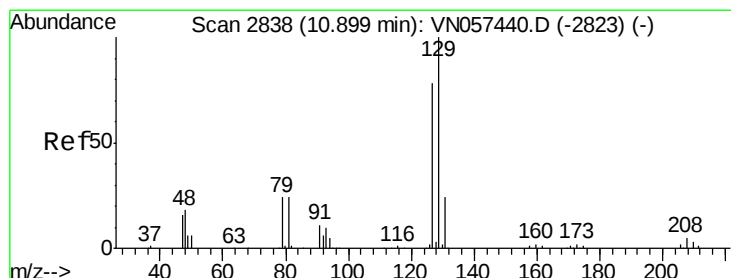
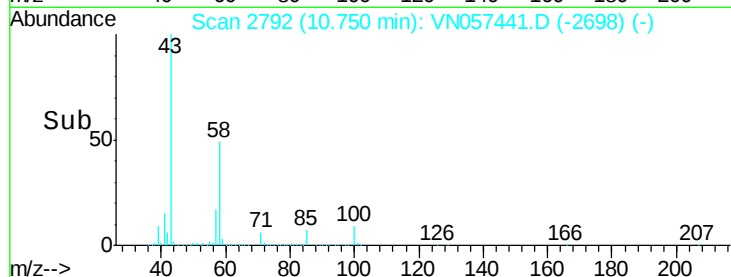
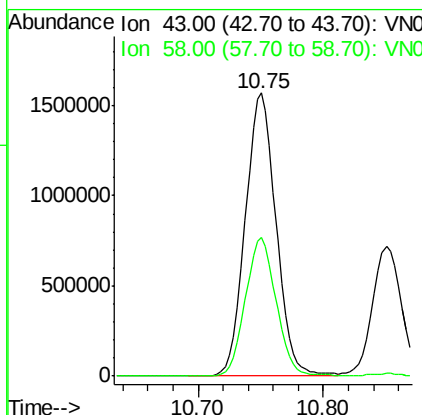
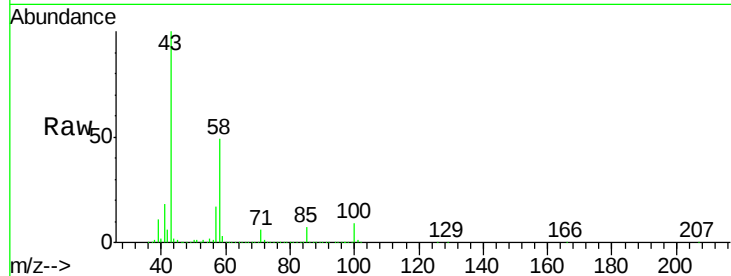
#59
2-Hexanone
Concen: 635.275 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 2677163
Ion Ratio Lower Upper
43 100
58 49.1 24.6 73.6

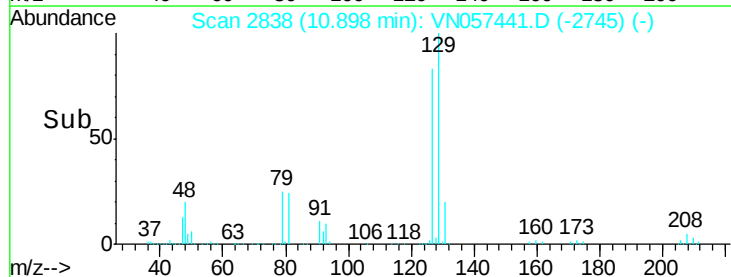
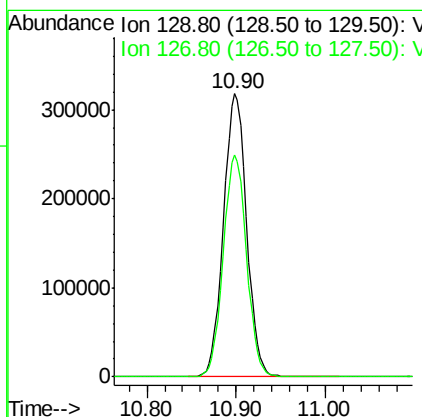
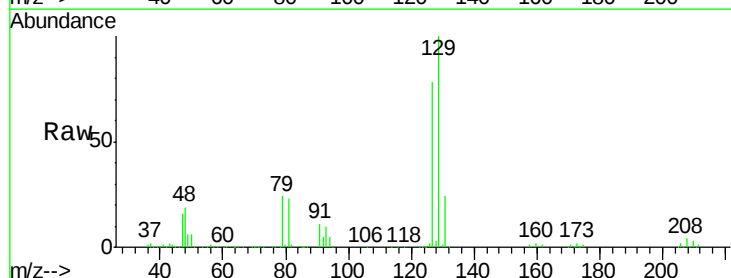
Manual Integrations
APPROVED

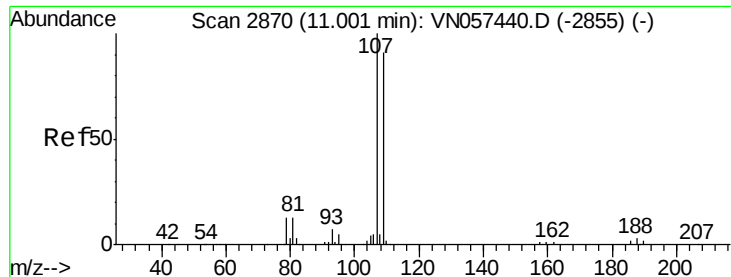
MMDadoda
8/23/2019 2:40:13 PM



#60
Dibromochloromethane
Concen: 102.918 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion: 129 Resp: 570860
Ion Ratio Lower Upper
129 100
127 79.0 39.0 116.9





#61

1,2-Dibromoethane

Concen: 99.683 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 107 Resp: 527241

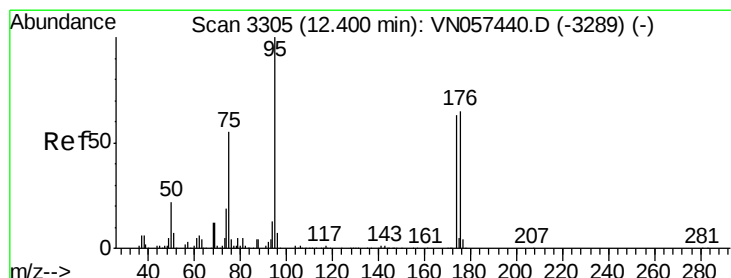
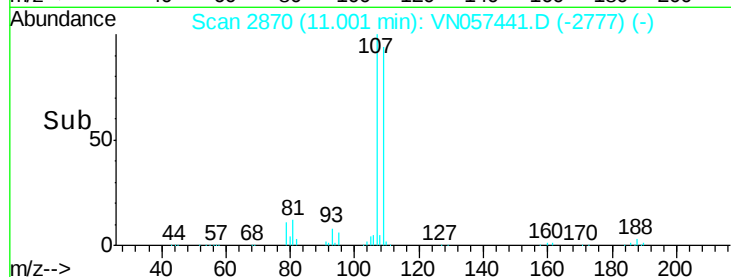
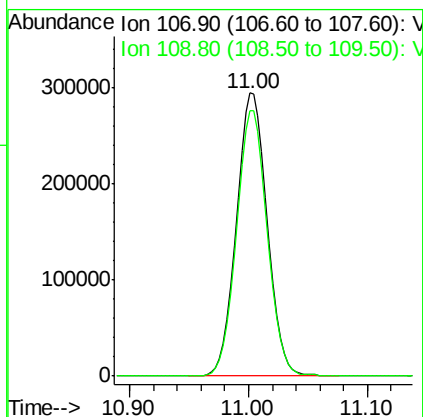
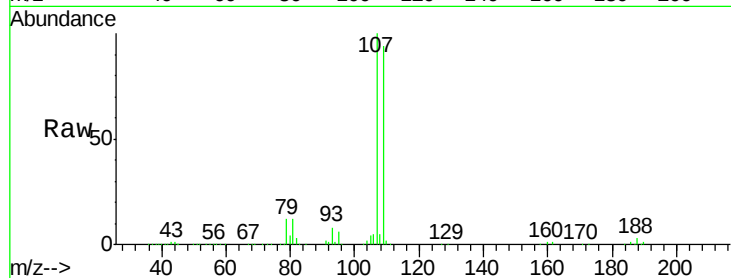
Ion Ratio Lower Upper

107 100

109 93.7 73.8 110.8

Manual Integrations
APPROVED

MMDadoda
8/23/2019 2:40:13 PM



#62

4-Bromofluorobenzene

Concen: 104.857 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

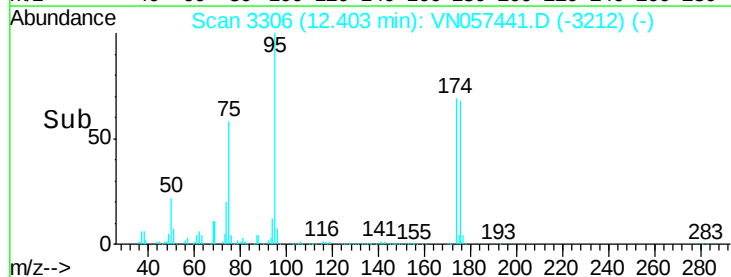
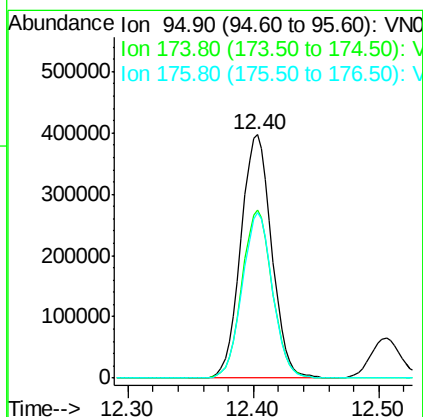
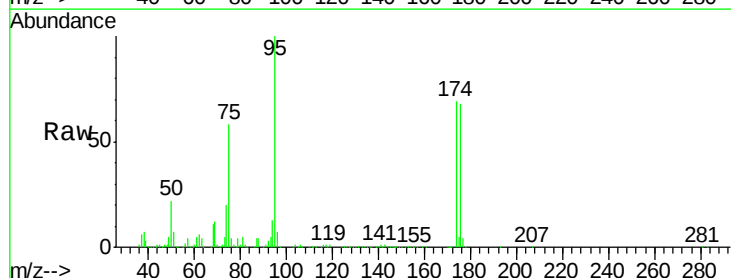
Tgt Ion: 95 Resp: 679363

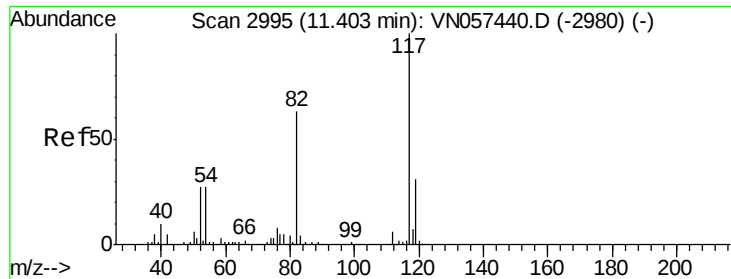
Ion Ratio Lower Upper

95 100

174 68.1 0.0 133.0

176 66.6 0.0 130.8





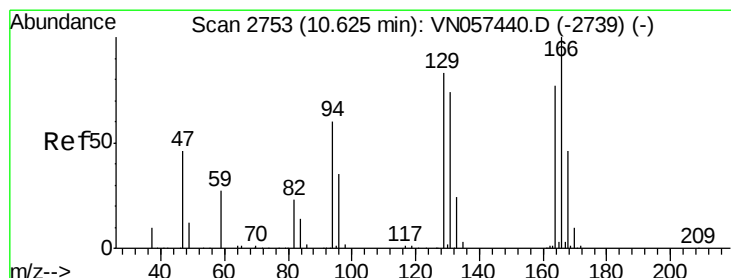
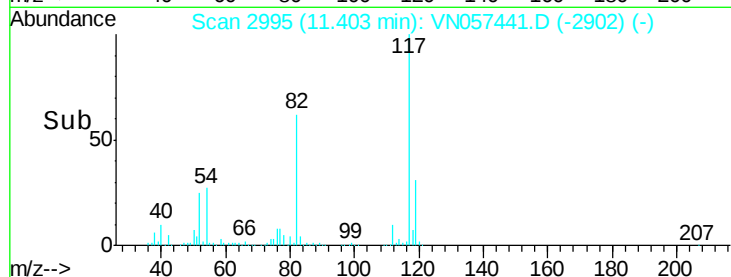
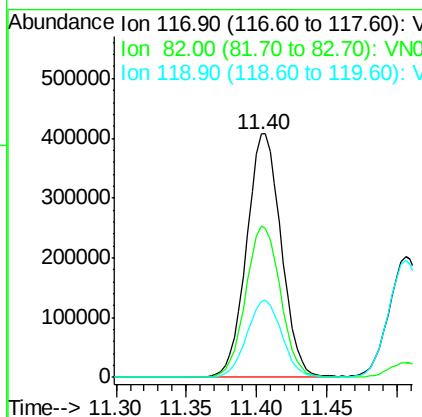
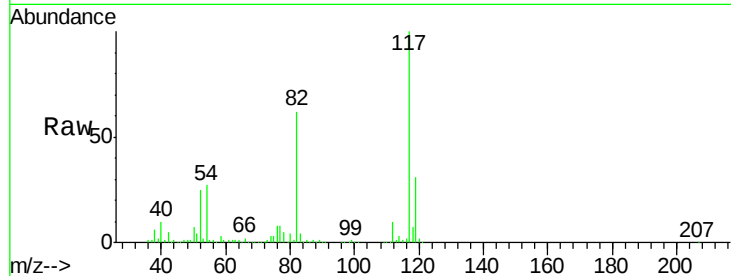
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
117	100	701505		
82	62.2	50.6	75.8	
119	31.0	24.6	36.8	

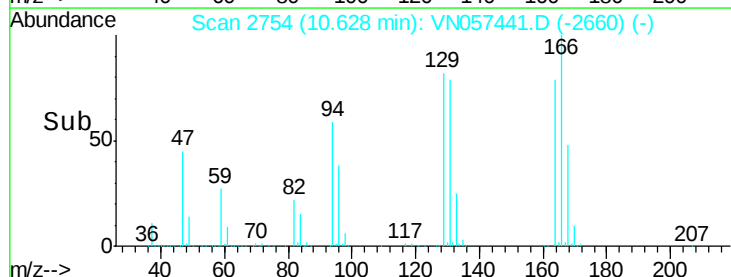
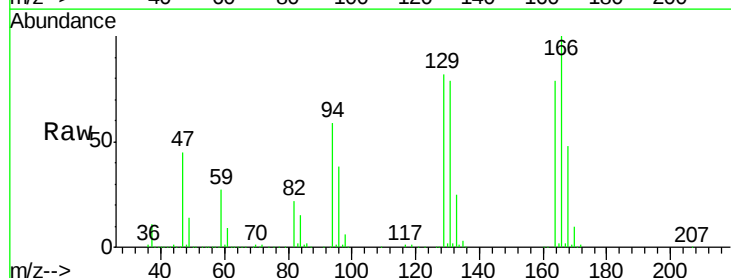
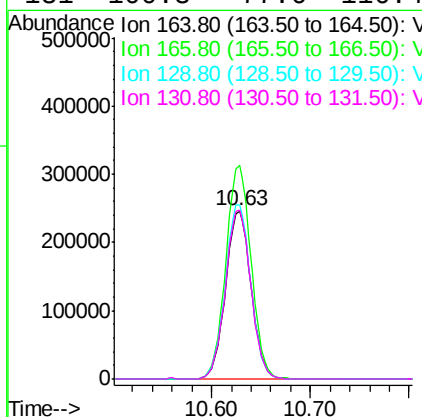
Manual Integrations
APPROVED

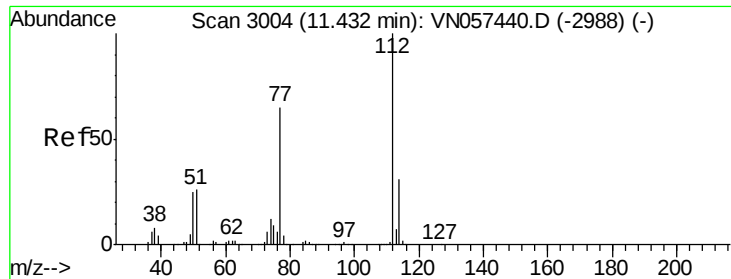
MMDadoda
8/23/2019 2:40:13 PM



#64
Tetrachloroethene
Concen: 75.320 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	442643		
166	127.0	104.4	156.6	
129	103.7	86.6	130.0	
131	100.3	77.6	116.4	





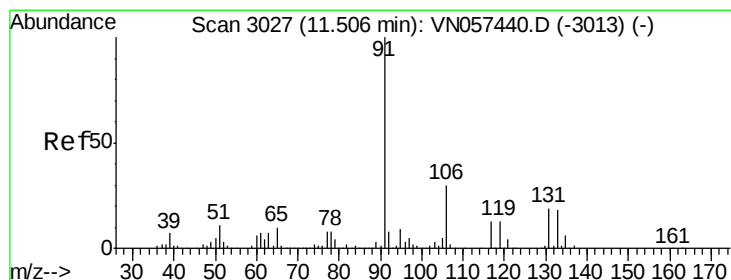
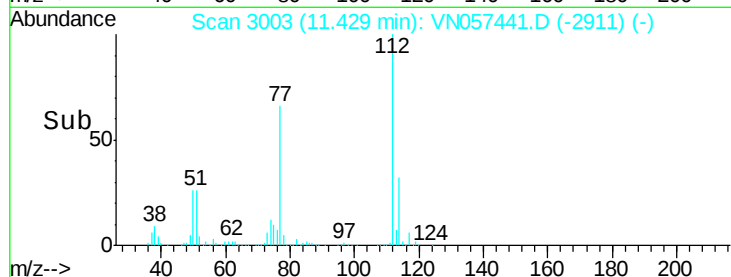
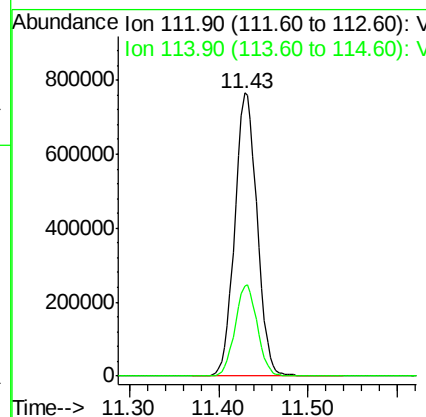
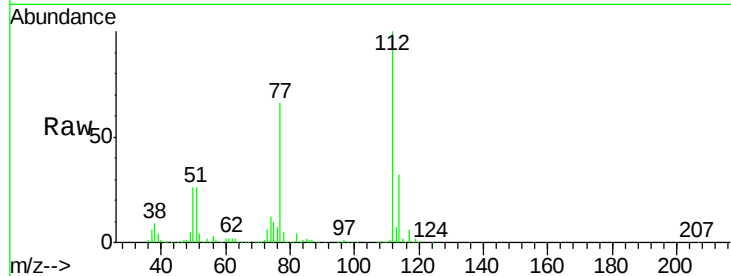
#65
Chlorobenzene
Concen: 93.282 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:112 Resp: 1324112
Ion Ratio Lower Upper
112 100
114 32.0 24.8 37.2

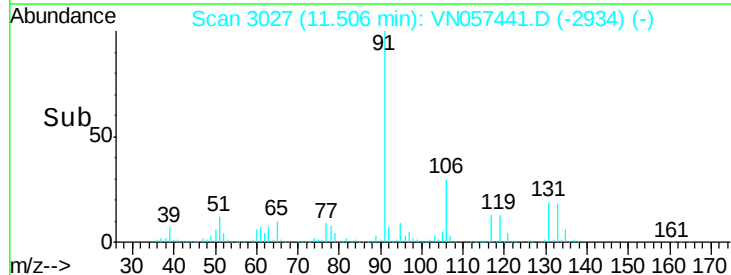
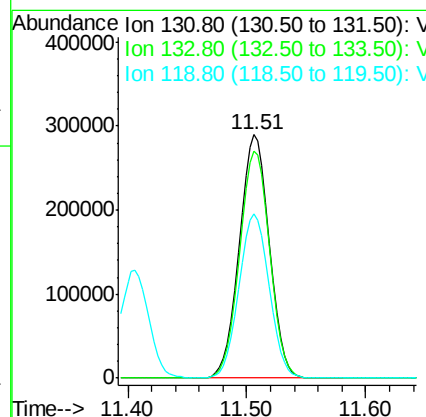
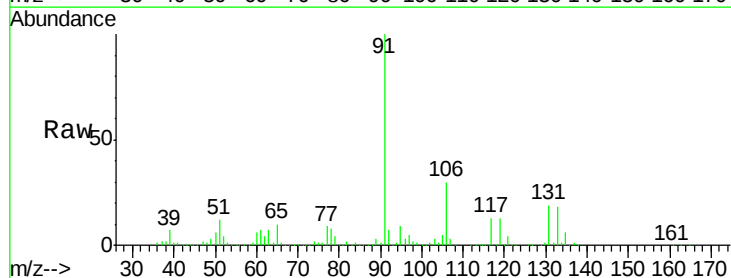
Manual Integrations
APPROVED

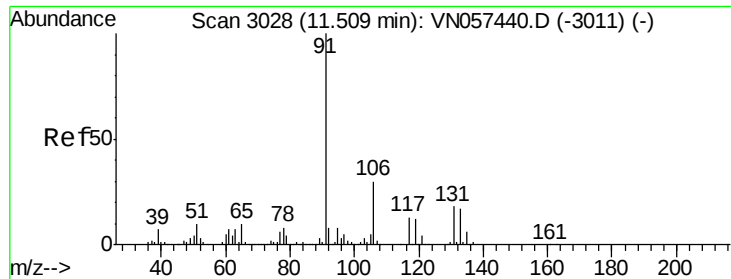
MMDadoda
8/23/2019 2:40:13 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 92.945 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion:131 Resp: 504435
Ion Ratio Lower Upper
131 100
133 94.0 47.6 142.8
119 68.1 34.4 103.2





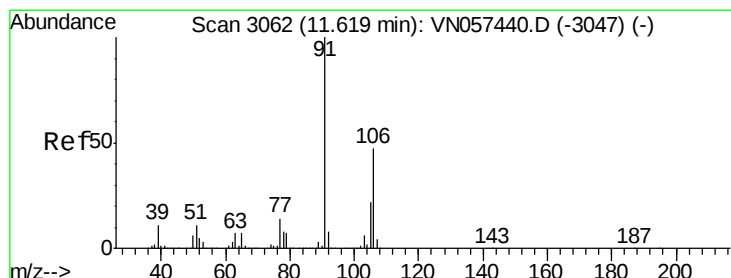
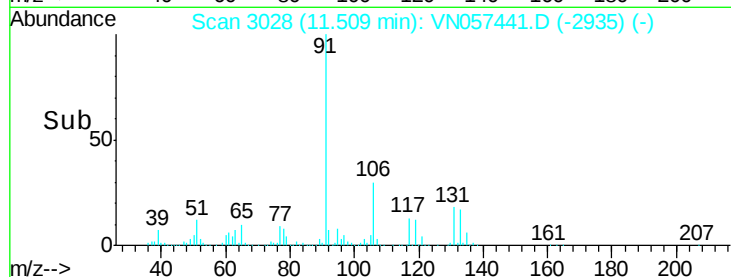
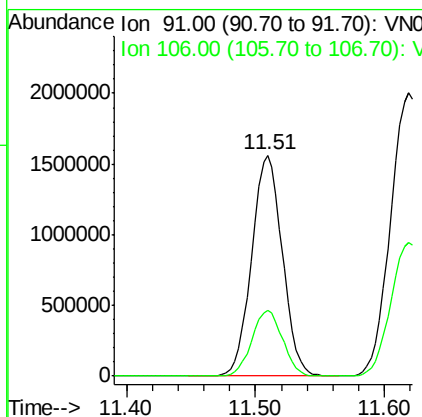
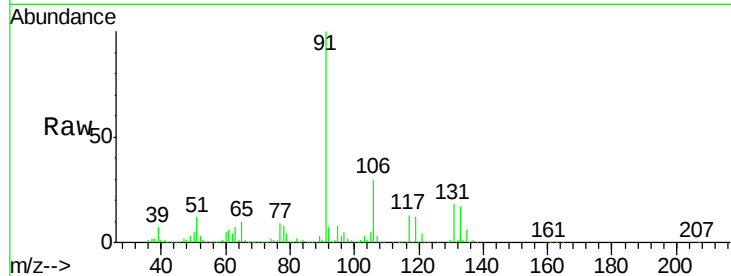
#67
Ethyl Benzene
Concen: 102.162 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 91 Resp: 2590390
Ion Ratio Lower Upper
91 100
106 30.0 24.1 36.1

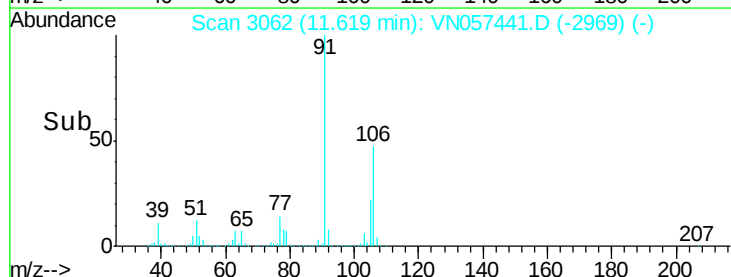
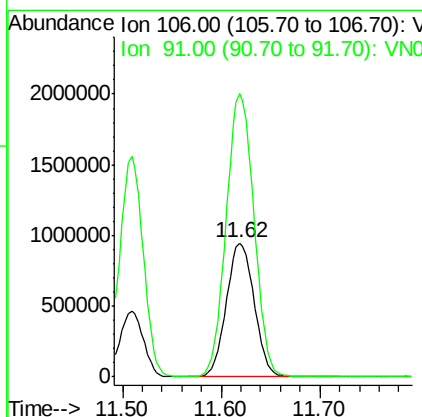
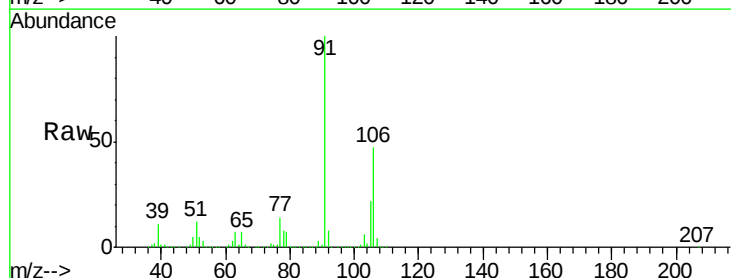
Manual Integrations
APPROVED

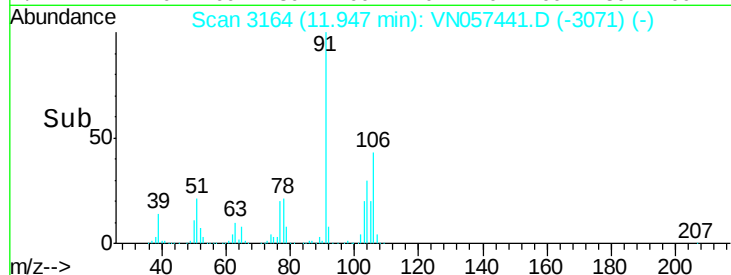
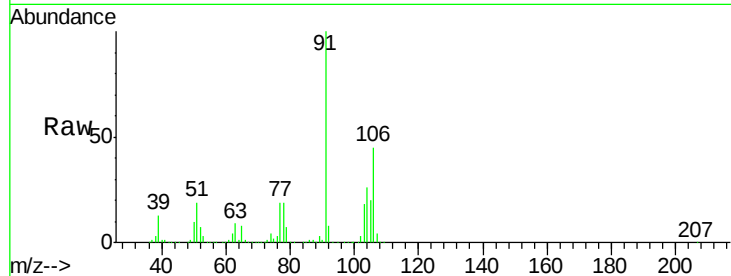
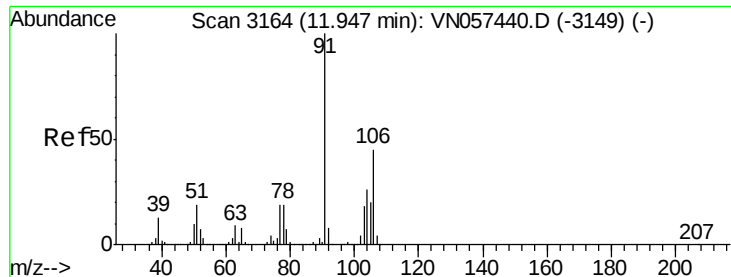
MMDadoda
8/23/2019 2:40:13 PM



#68
m/p-Xylenes
Concen: 202.588 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion: 106 Resp: 1869078
Ion Ratio Lower Upper
106 100
91 211.7 171.8 257.6





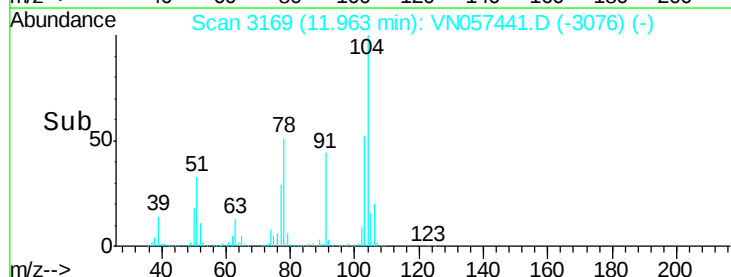
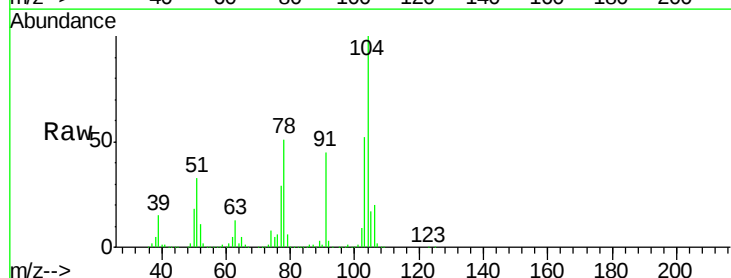
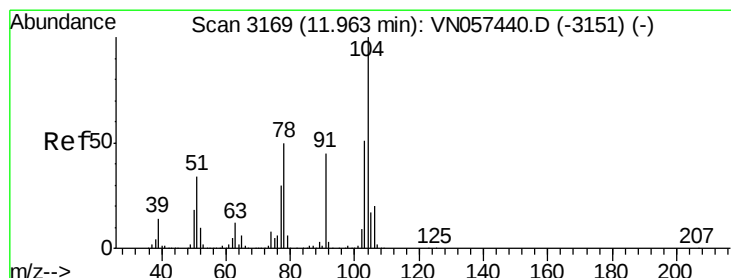
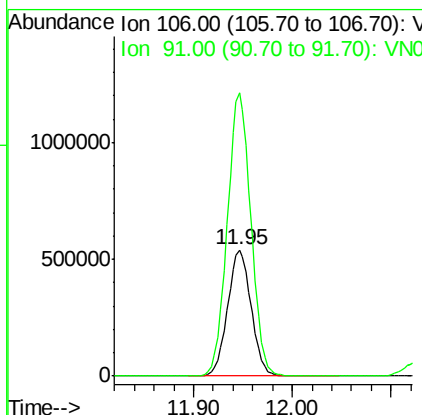
#69
o-Xylene
Concen: 99.274 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	900404		
91	91	225.1	112.3	336.9	

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

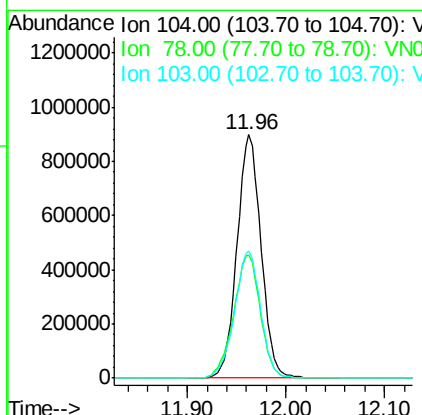
Manual Integrations
APPROVED

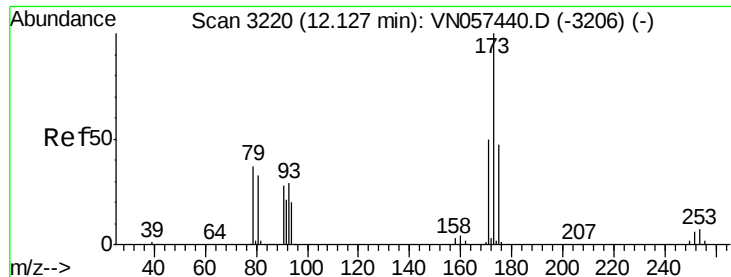
MMDadoda
8/23/2019 2:40:13 PM



#70
Styrene
Concen: 105.070 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	1519576		
78	78	56.5	44.7	67.1	
103	103	56.5	44.4	66.6	





#71

Bromoform

Concen: 85.875 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:173 Resp: 359376

Ion Ratio Lower Upper

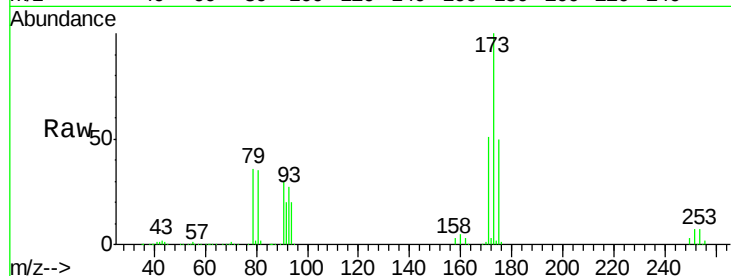
173 100

175 48.0 23.9 71.8

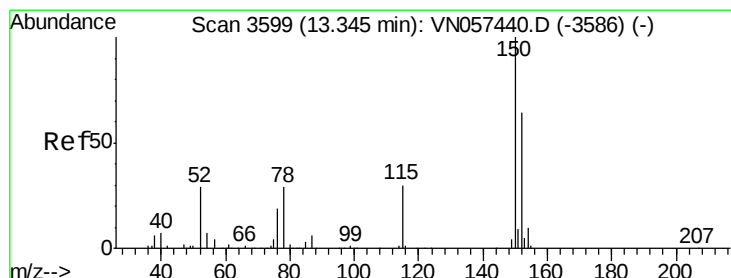
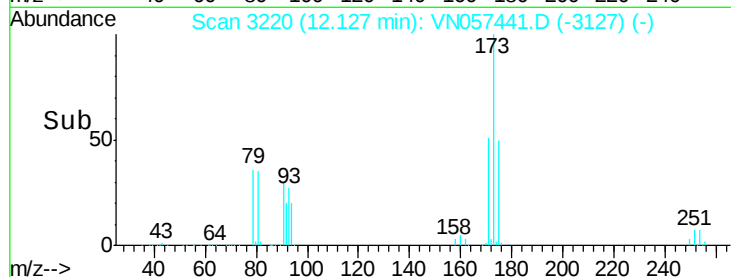
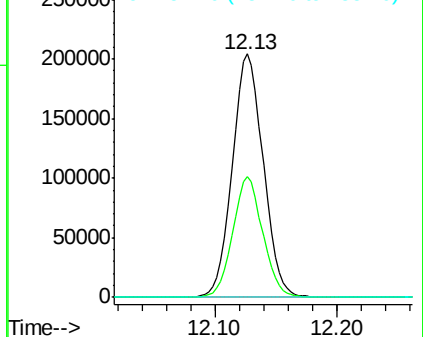
254 0.1 0.1 0.1#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

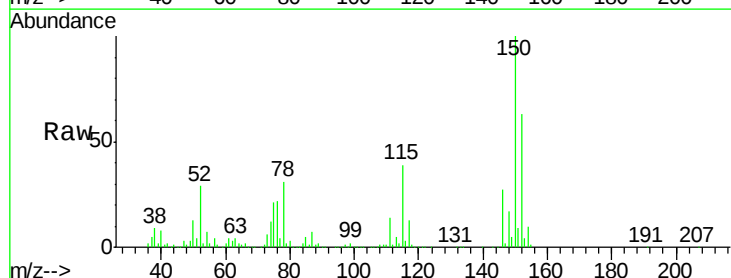
Tgt Ion:152 Resp: 279957

Ion Ratio Lower Upper

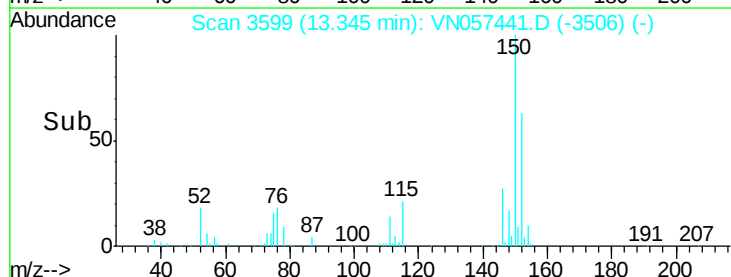
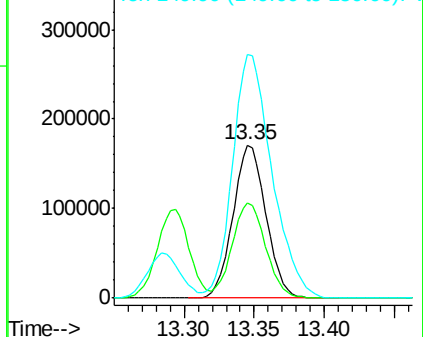
152 100

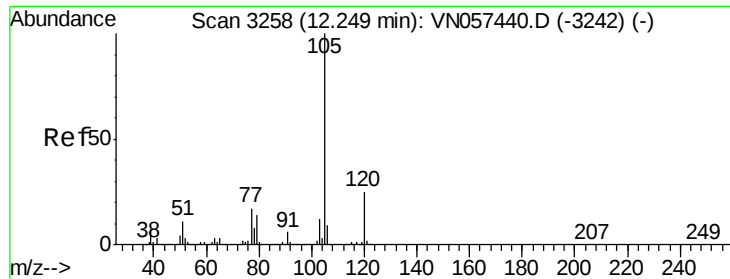
115 63.5 32.0 96.0

150 189.9 0.0 346.6



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





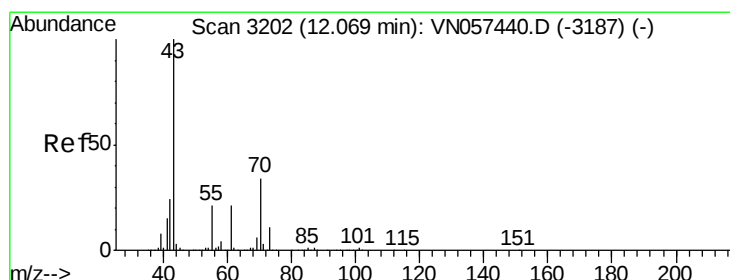
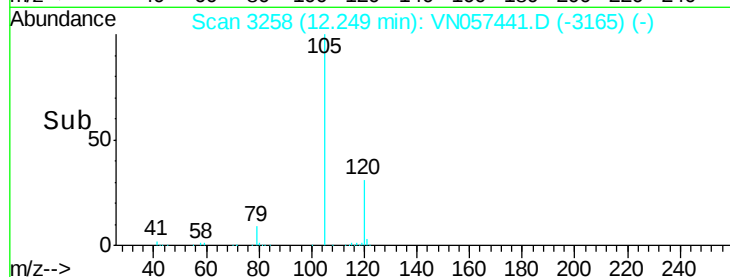
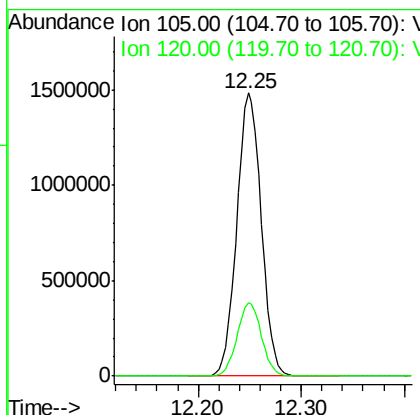
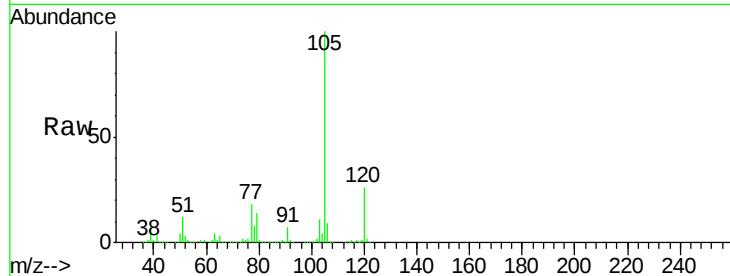
#73
Isopropylbenzene
Concen: 89.028 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:105 Resp: 2444263
Ion Ratio Lower Upper
105 100
120 25.7 12.7 38.0

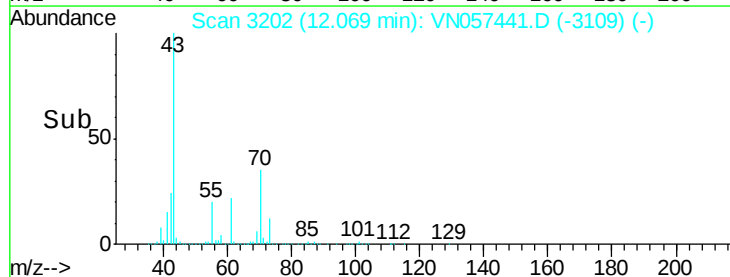
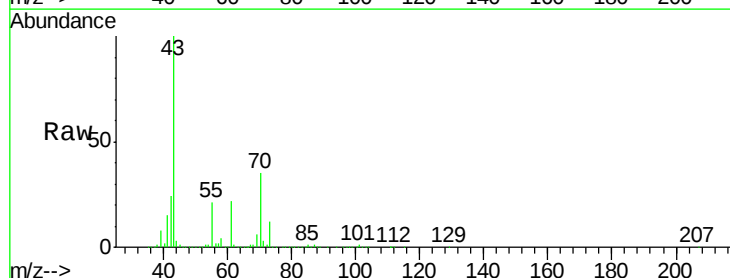
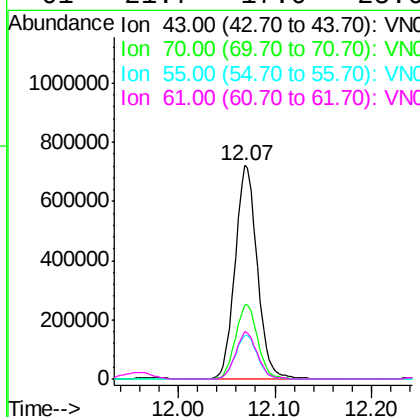
Manual Integrations
APPROVED

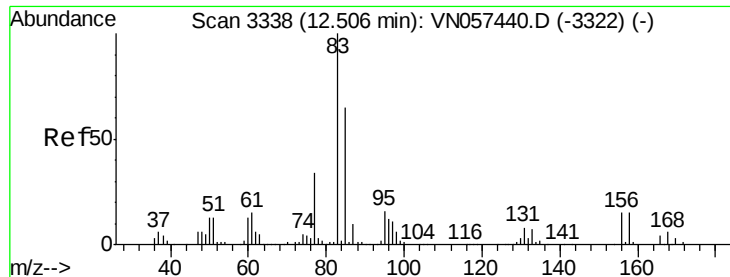
MMDadoda
8/23/2019 2:40:13 PM



#74
N-ethyl acetate
Concen: 129.158 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion: 43 Resp: 1143906
Ion Ratio Lower Upper
43 100
70 35.3 27.8 41.6
55 20.9 17.0 25.4
61 21.7 17.0 25.6





#75

1,1,2,2-Tetrachloroethane

Concen: 86.687 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

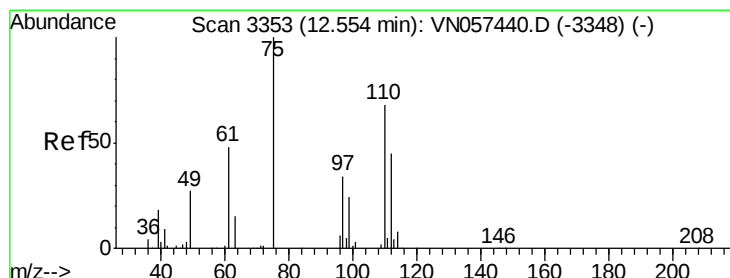
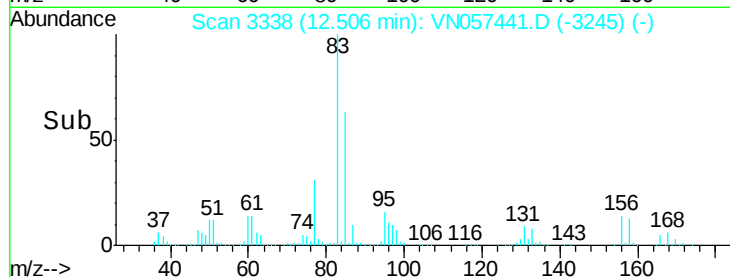
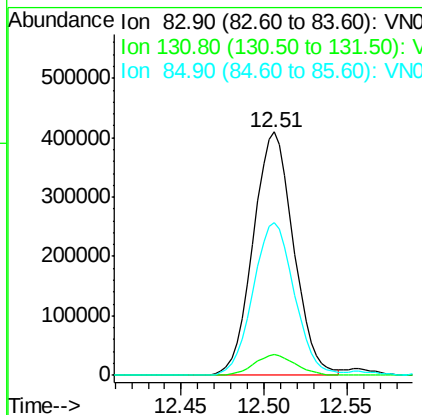
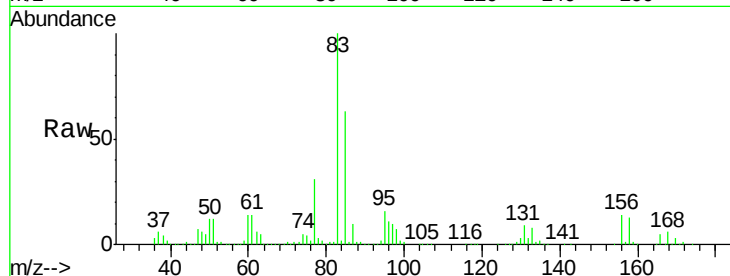
ClientSampleId :

VSTDIC100

Tot Ion:	83	Resp:	695946
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.3	13.1
85	64.1	32.3	96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 84.127 ug/l m

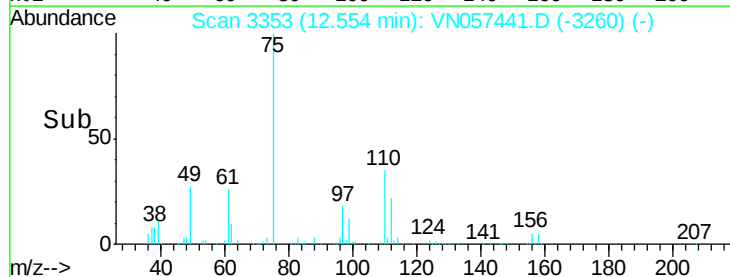
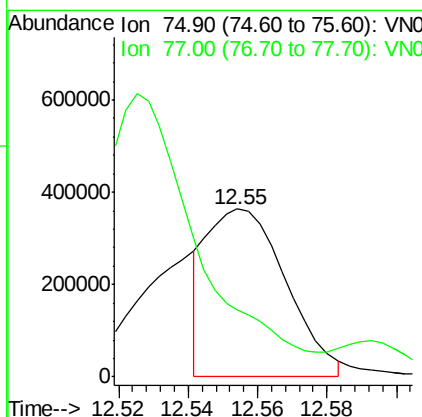
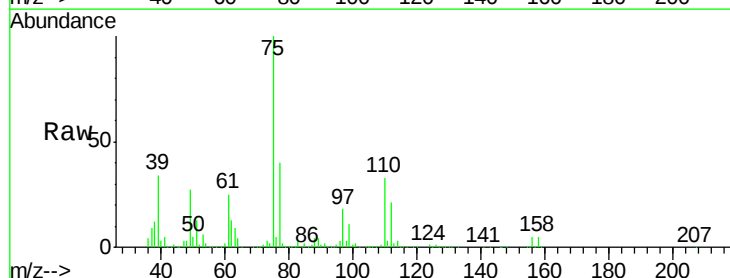
RT: 12.55 min Scan# 3353

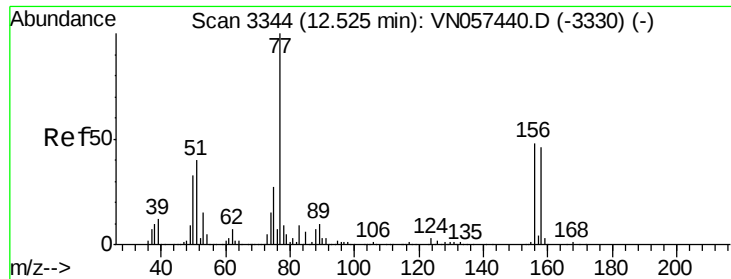
Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Tgt Ion:	75	Resp:	579186
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 72.772 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

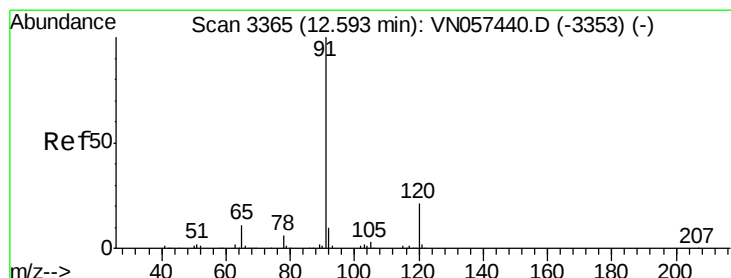
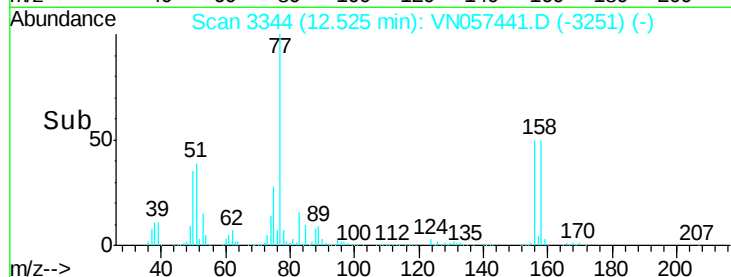
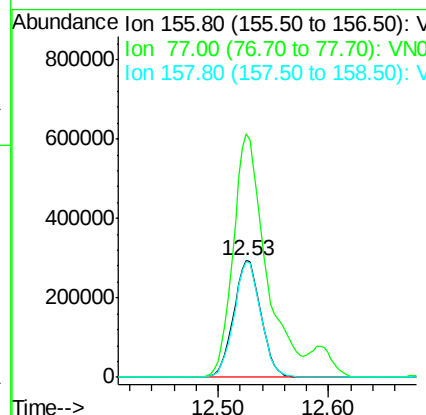
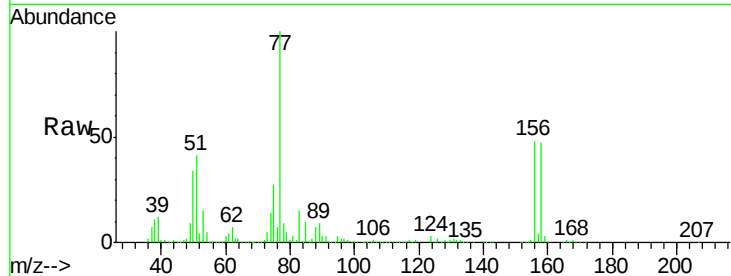
ClientSampleId :

VSTDIC100

Tot Ion:	156	Resp:	504055
Ion Ratio	Lower	Upper	
156	100		
77	248.5	124.4	373.3
158	97.6	48.3	144.8

Manual Integrations
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#78

n-propylbenzene

Concen: 102.507 ug/l

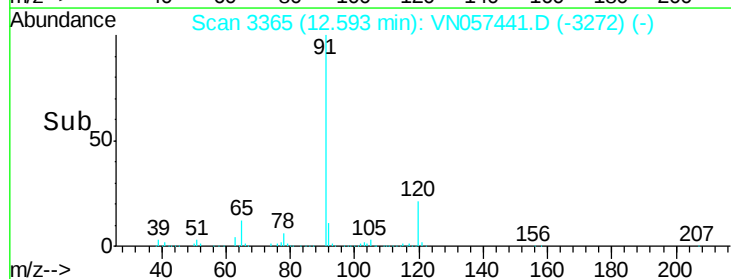
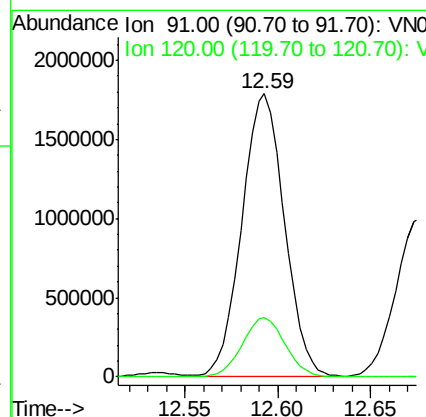
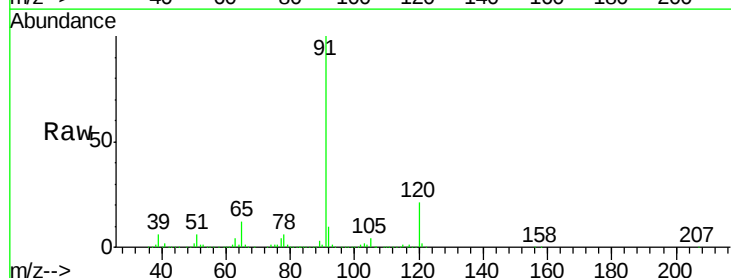
RT: 12.59 min Scan# 3365

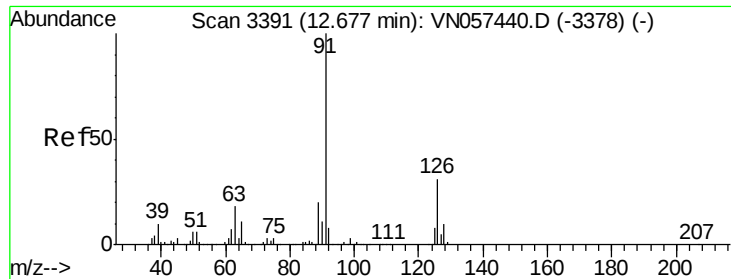
Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Tgt Ion:	91	Resp:	2834592
Ion Ratio	Lower	Upper	
91	100		
120	21.2	10.7	32.1





#79

2-Chlorotoluene

Concen: 93.154 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 1644775

Ion Ratio Lower Upper

91 100

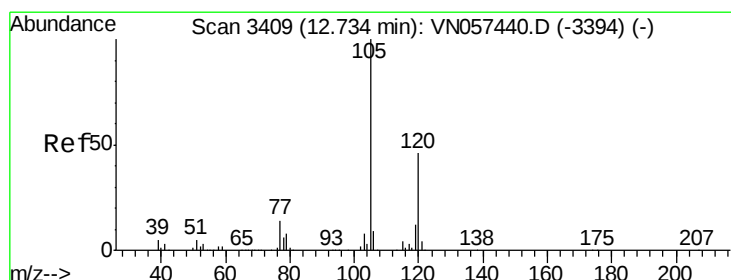
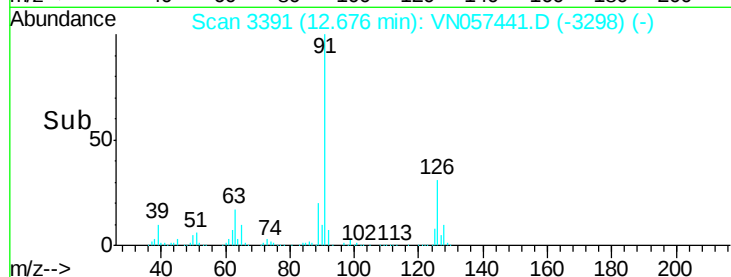
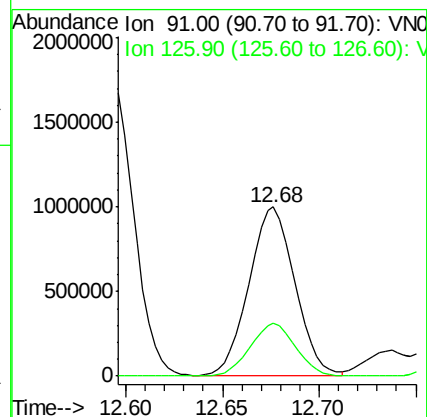
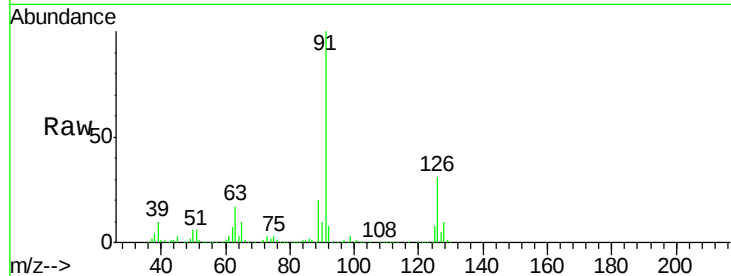
126 31.1 15.3 45.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 91.333 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN057441.D

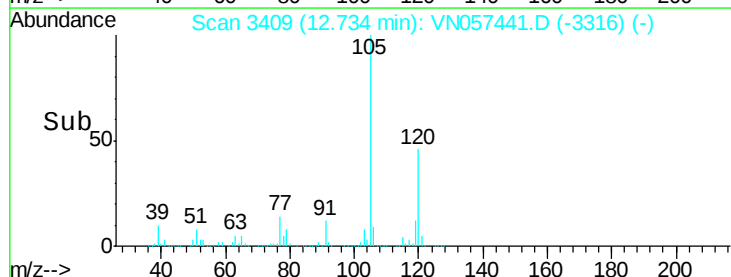
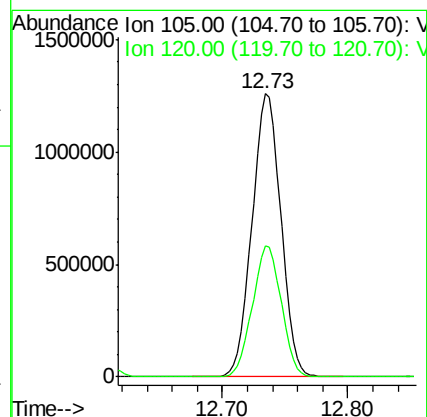
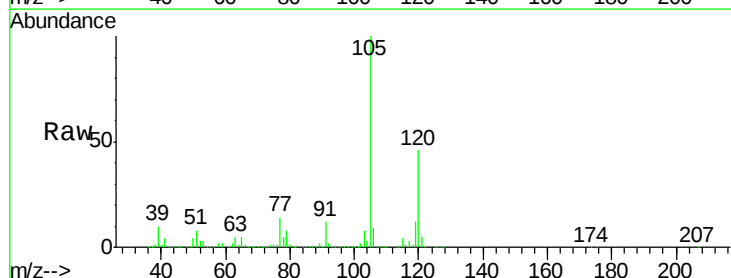
Acq: 22 Aug 2019 18:43

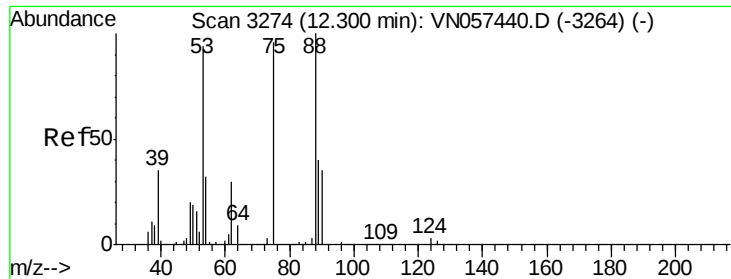
Tgt Ion: 105 Resp: 2017033

Ion Ratio Lower Upper

105 100

120 46.4 23.3 69.8





#81

trans-1,4-Dichloro-2-butene

Concen: 103.898 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 75 Resp: 244278

Ion Ratio Lower Upper

75 100

53 103.4 82.7 124.1

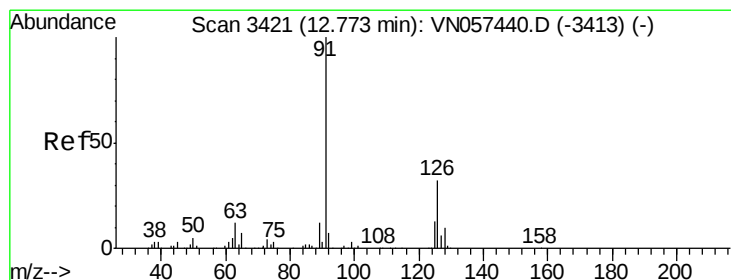
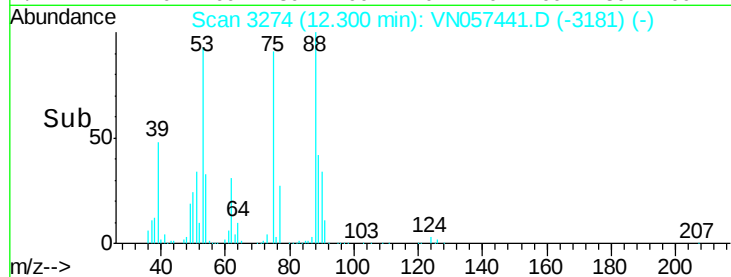
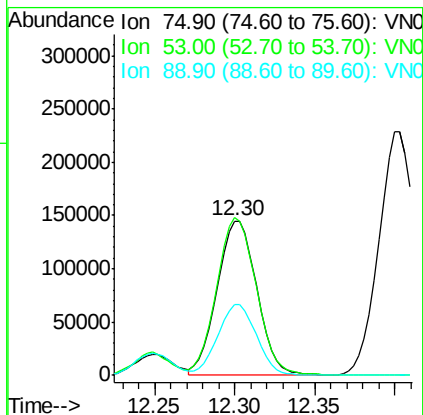
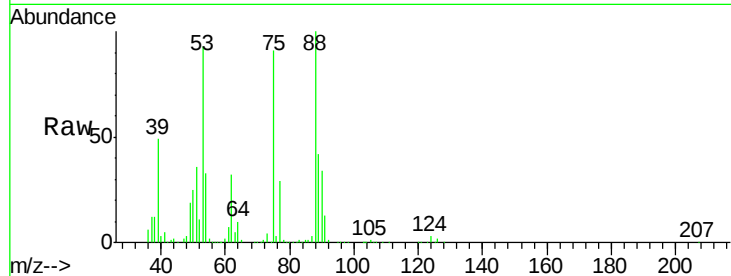
89 45.7 35.8 53.8

Manual Integrations

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#82

4-Chlorotoluene

Concen: 101.765 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN057441.D

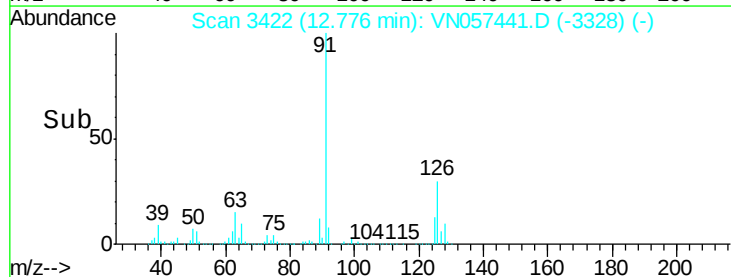
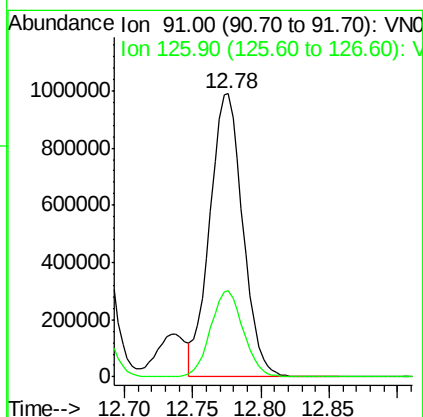
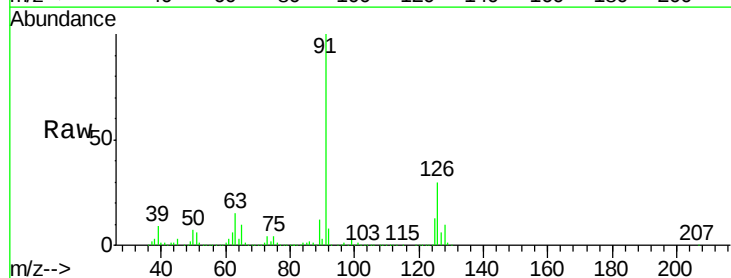
Acq: 22 Aug 2019 18:43

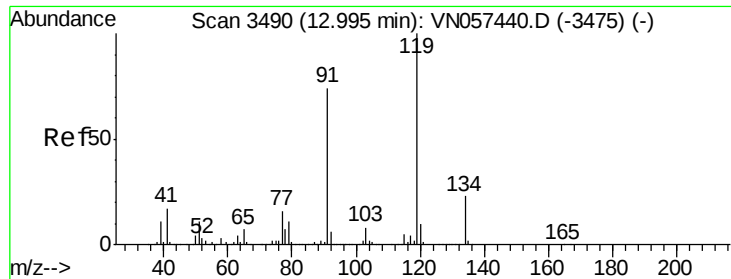
Tgt Ion: 91 Resp: 1660430

Ion Ratio Lower Upper

91 100

126 30.2 15.0 45.0





#83

tert-Butylbenzene

Concen: 81.818 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:119 Resp: 1662219

Ion Ratio Lower Upper

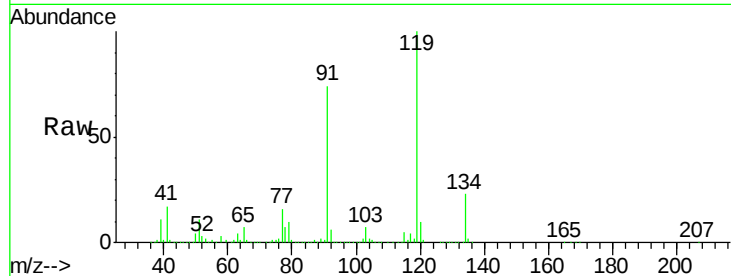
119 100

91 74.0 37.0 111.0

134 24.8 12.2 36.6

Manual Integrations
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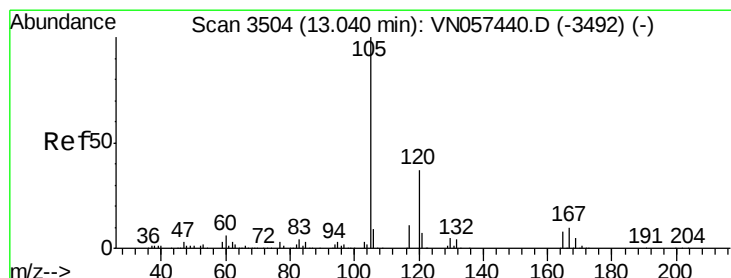
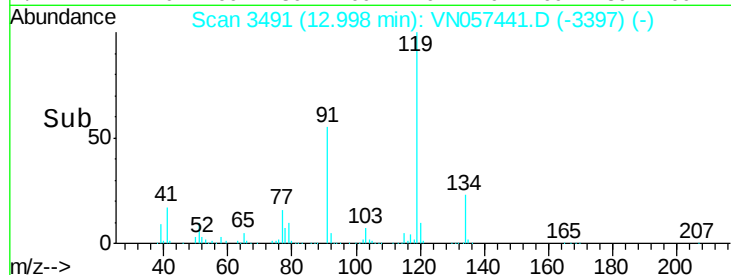
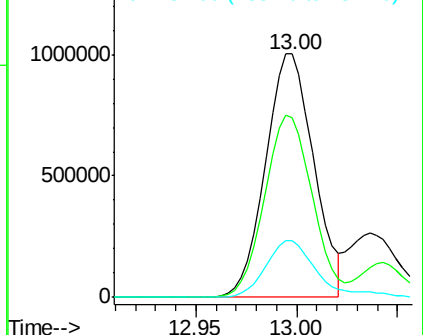
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 95.424 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN057441.D

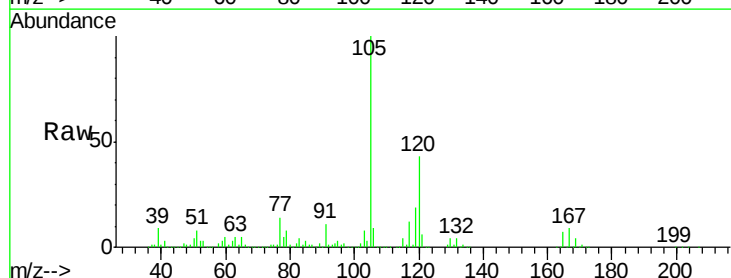
Acq: 22 Aug 2019 18:43

Tgt Ion:105 Resp: 1956697

Ion Ratio Lower Upper

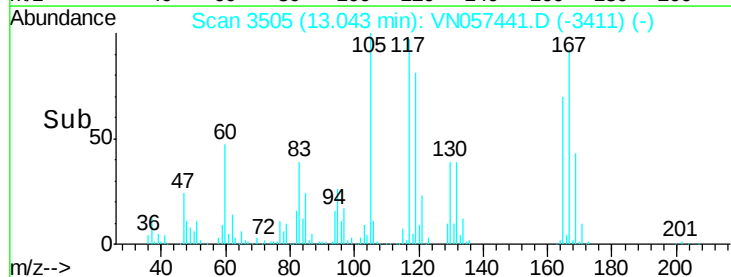
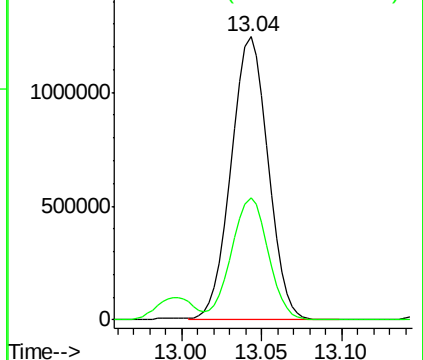
105 100

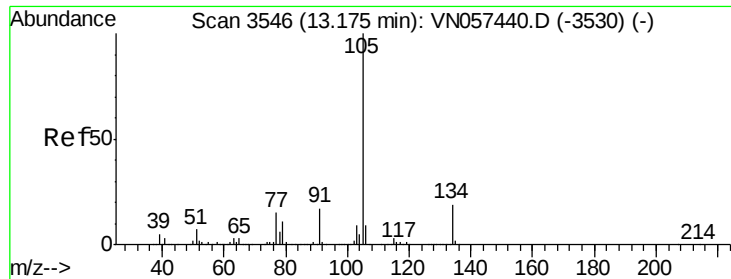
120 42.8 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





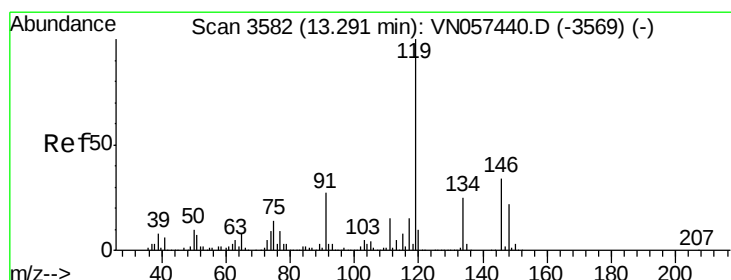
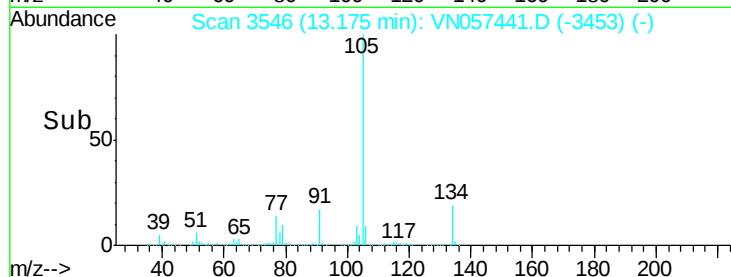
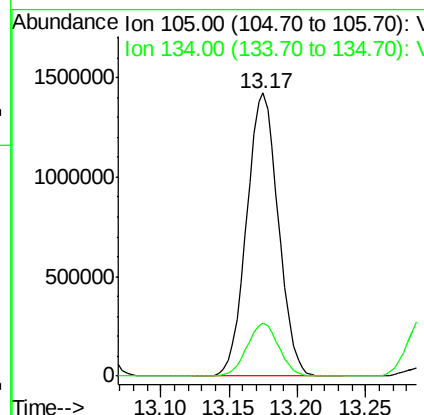
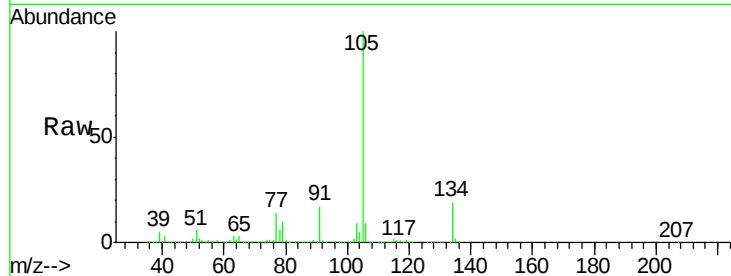
#85
 sec-Butylbenzene
 Concen: 92.978 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. -0.00 min
 Lab File: VN057441.D
 Acq: 22 Aug 2019 18:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:105 Resp: 2284271
 Ion Ratio Lower Upper
 105 100
 134 18.7 9.3 27.9

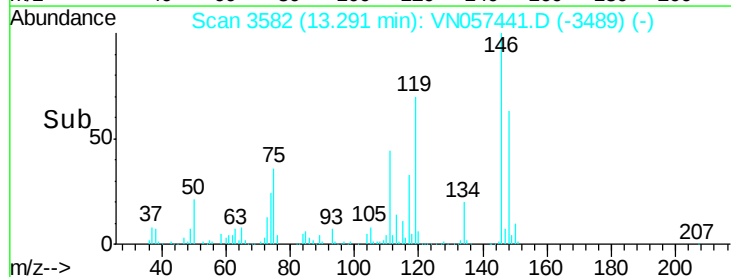
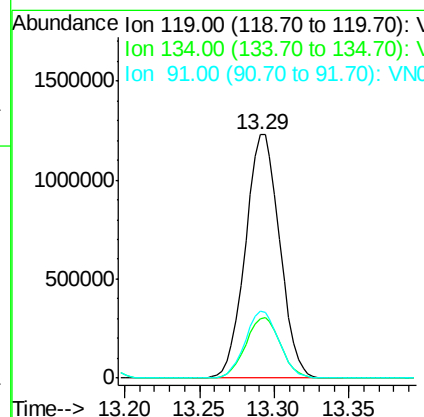
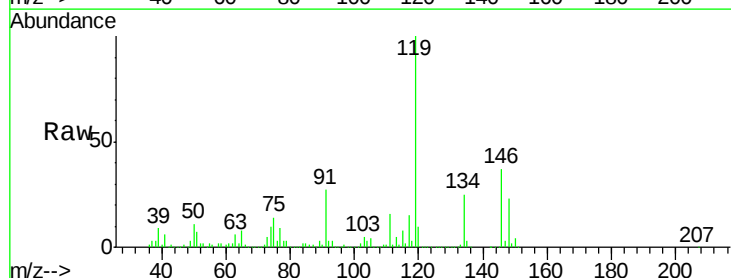
Manual Integrations
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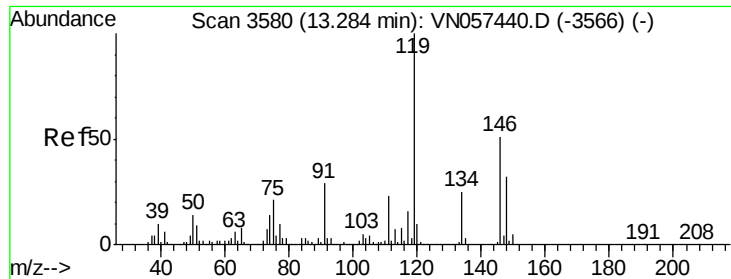
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#86
 p-Isopropyltoluene
 Concen: 93.928 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN057441.D
 Acq: 22 Aug 2019 18:43

Tgt Ion:119 Resp: 1958751
 Ion Ratio Lower Upper
 119 100
 134 25.0 12.7 38.1
 91 26.9 13.9 41.6





#87

1,3-Dichlorobenzene

Concen: 88.135 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

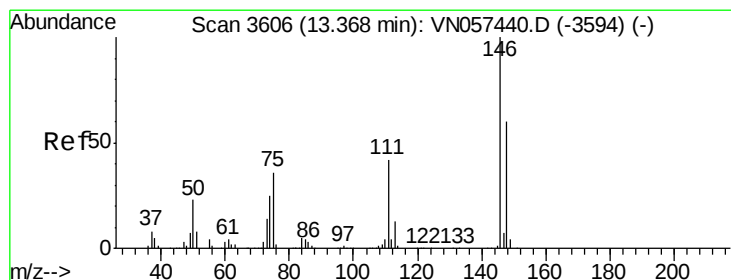
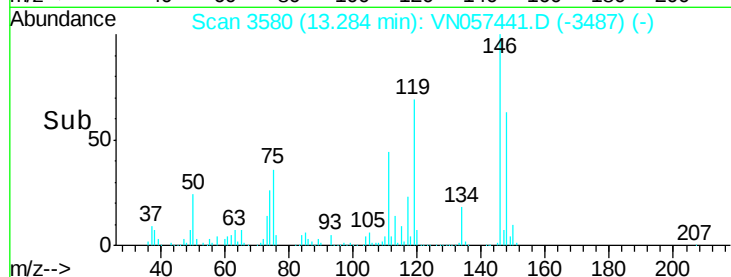
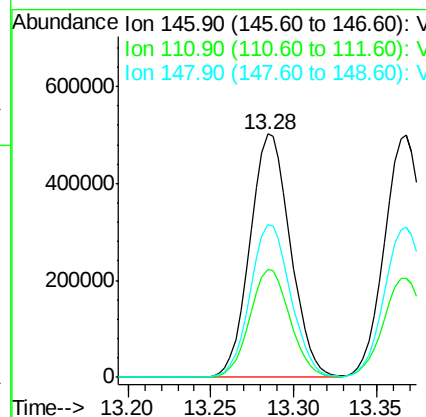
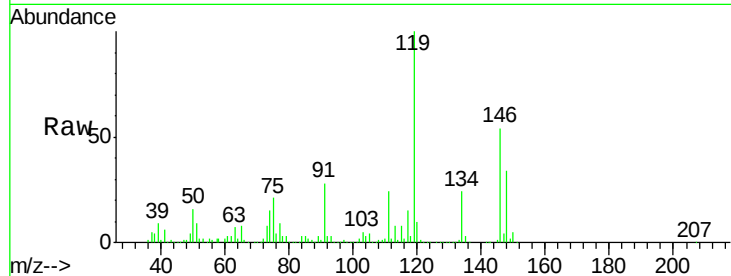
ClientSampleId :

VSTDIC100

Tot Ion:	146	Resp:	850770
Ion Ratio	Lower	Upper	
146	100		
111	43.8	22.1	66.1
148	62.9	31.9	95.9

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 91.213 ug/l

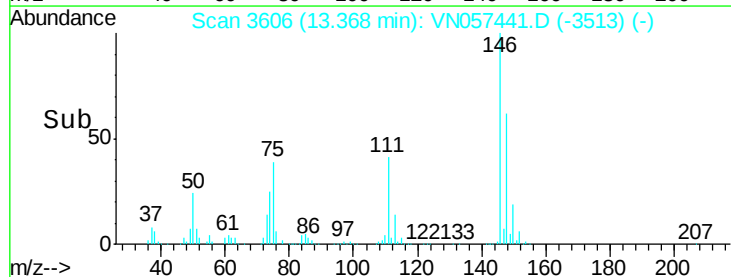
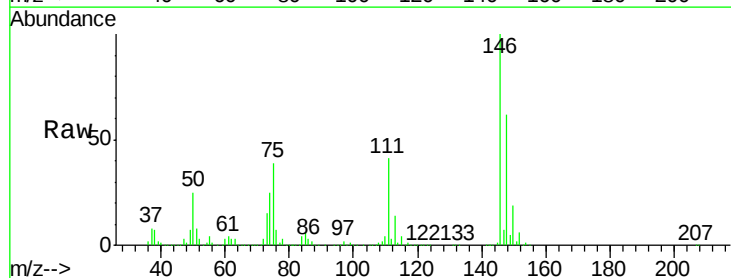
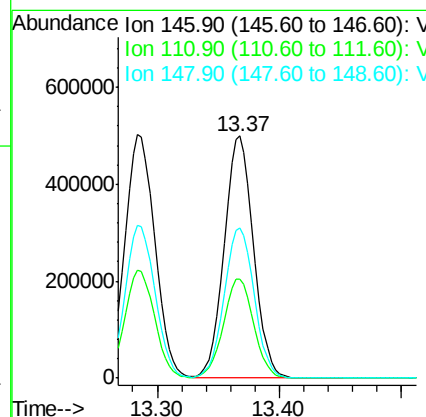
RT: 13.37 min Scan# 3606

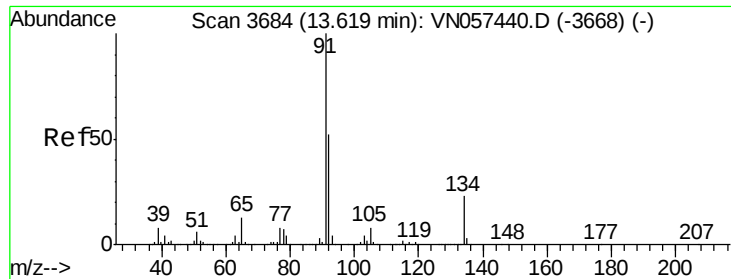
Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Tgt Ion:	146	Resp:	842158
Ion Ratio	Lower	Upper	
146	100		
111	42.2	21.9	65.5
148	63.6	31.1	93.2





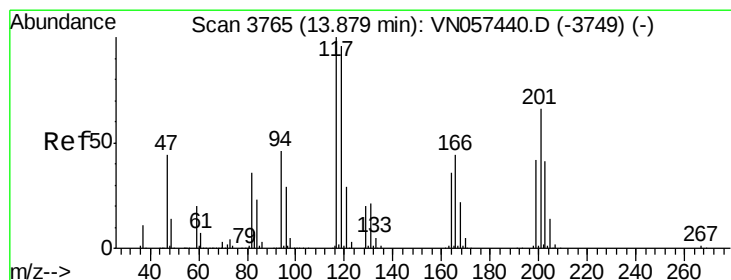
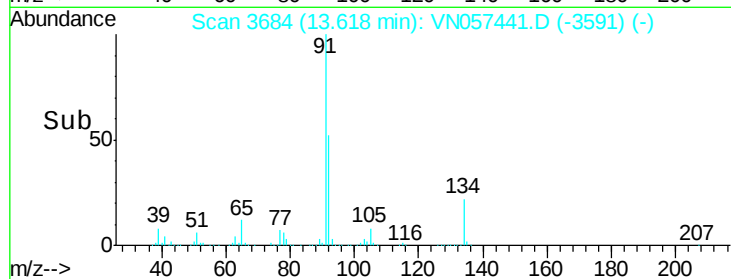
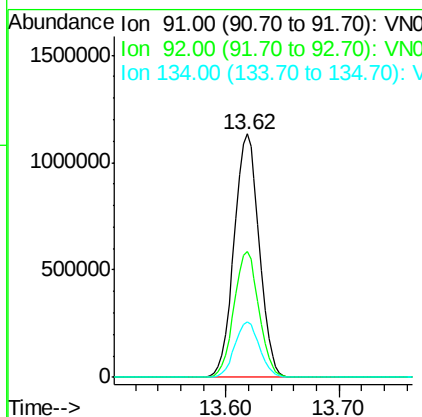
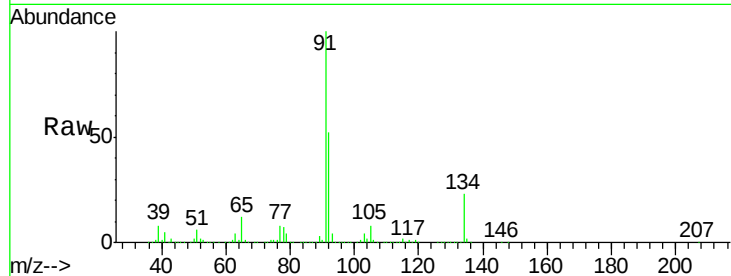
#89
n-Butylbenzene
Concen: 113.761 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 91 Resp: 1744979
Ion Ratio Lower Upper
91 100
92 51.4 25.7 77.0
134 22.6 11.4 34.1

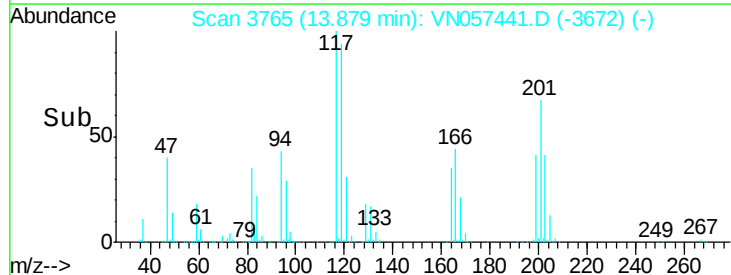
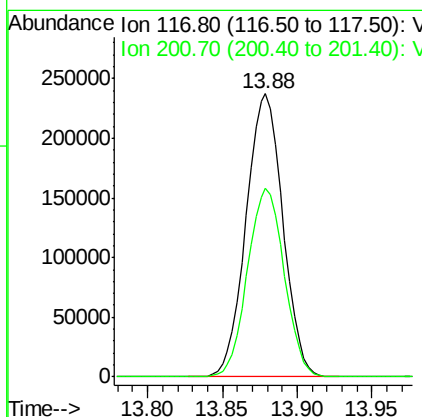
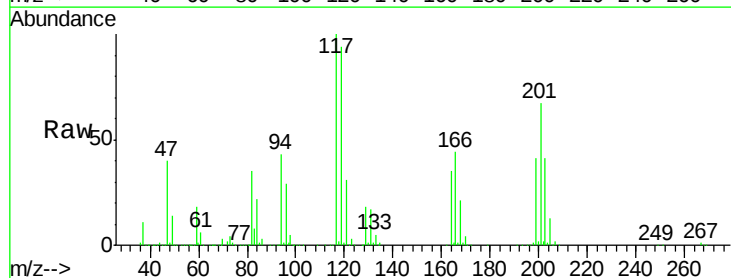
Manual Integrations
APPROVED

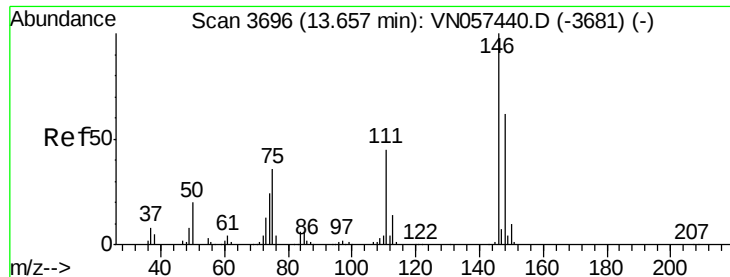
MMDadoda
8/23/2019 2:40:13 PM



#90
Hexachloroethane
Concen: 93.236 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion: 117 Resp: 405989
Ion Ratio Lower Upper
117 100
201 66.4 33.1 99.3





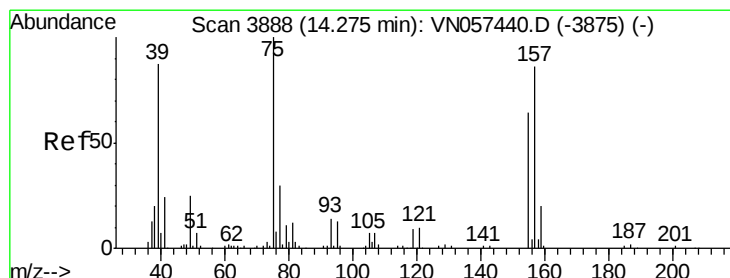
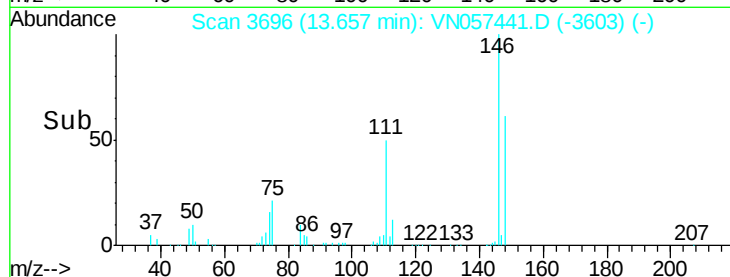
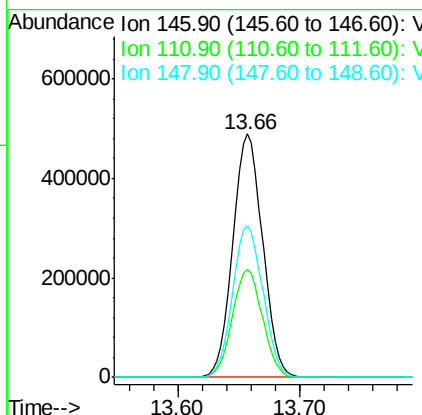
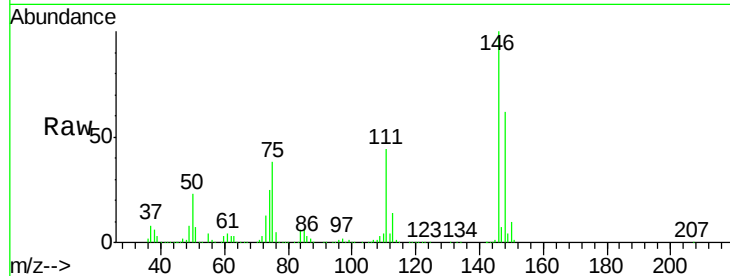
#91
 1,2-Dichlorobenzene
 Concen: 92.062 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. -0.00 min
 Lab File: VN057441.D
 Acq: 22 Aug 2019 18:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.7	23.1	69.2
148	63.3	31.8	95.4

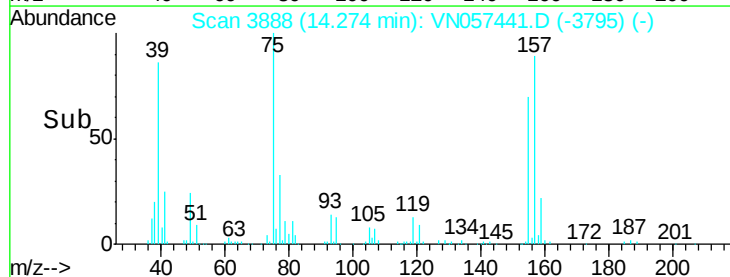
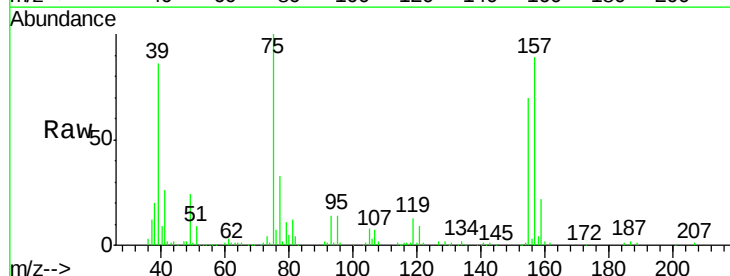
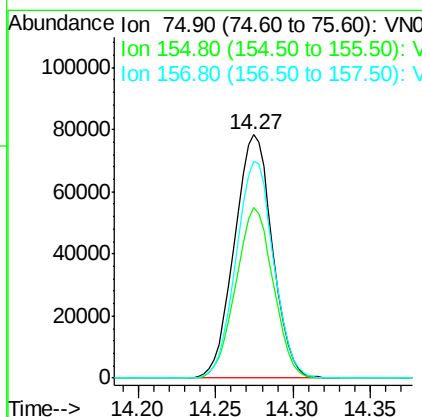
Manual Integrations
 APPROVED

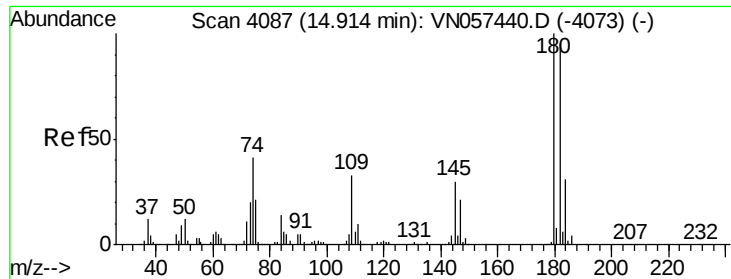
MMDadoda
 8/23/2019 2:40:13 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 126.298 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. -0.00 min
 Lab File: VN057441.D
 Acq: 22 Aug 2019 18:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	69.1	31.6	94.7
157	88.0	43.3	129.8





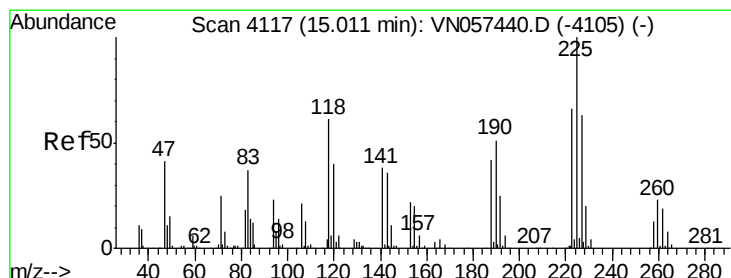
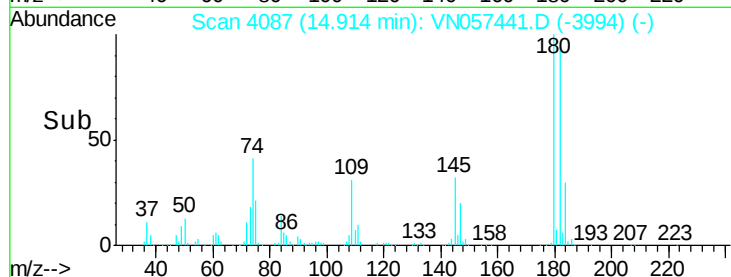
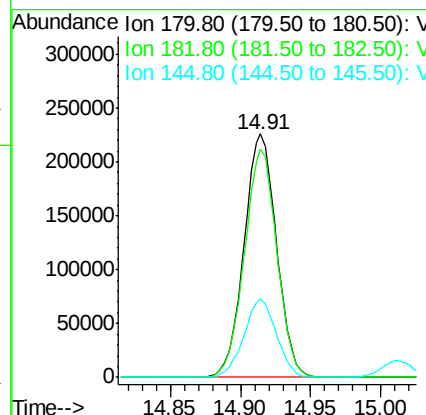
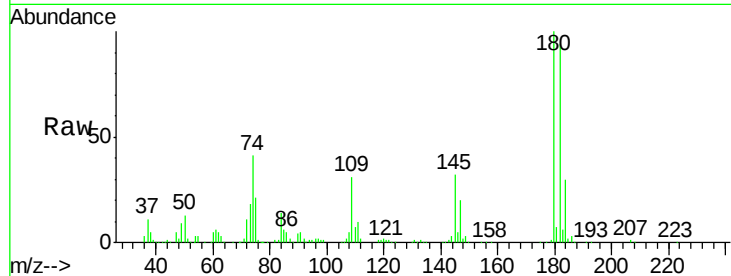
#93
1,2,4-Trichlorobenzene
Concen: 120.687 ug/l
RT: 14.91 min Scan# 4087
Delta R.T. -0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100	363469		
182	94.1	46.7	140.1	
145	32.4	15.6	46.8	

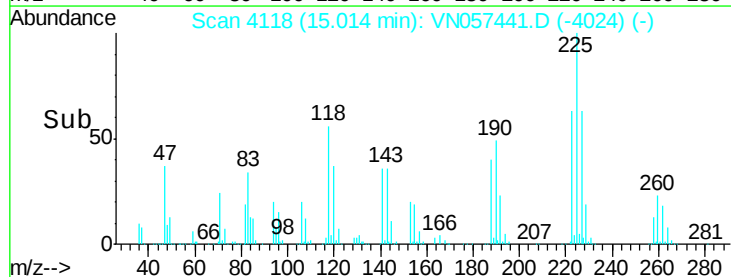
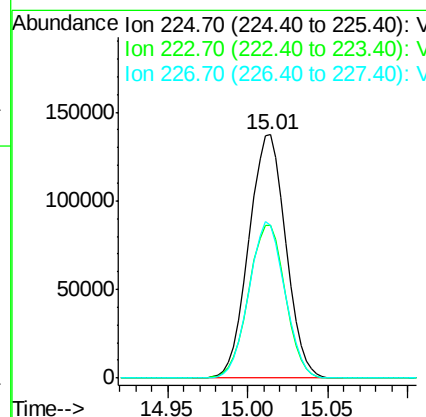
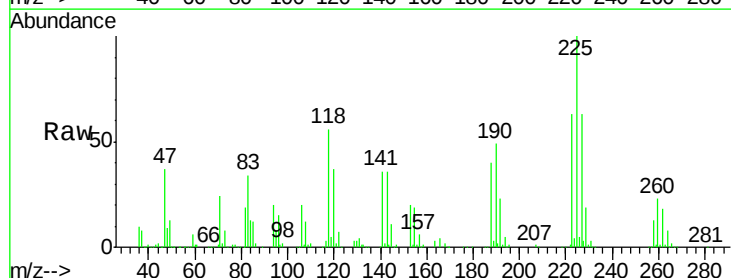
Manual Integrations
APPROVED

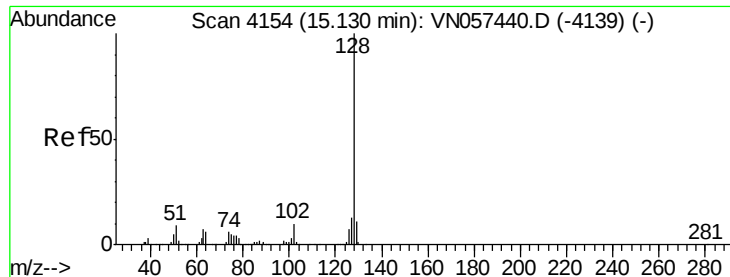
MMDadoda
8/23/2019 2:40:13 PM



#94
Hexachlorobutadiene
Concen: 54.214 ug/l
RT: 15.01 min Scan# 4118
Delta R.T. 0.00 min
Lab File: VN057441.D
Acq: 22 Aug 2019 18:43

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	215969		
223	62.4	32.0	96.2	
227	62.3	31.5	94.5	





#95

Naphthalene

Concen: 165.836 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:128 Resp: 1163394

Ion Ratio Lower Upper

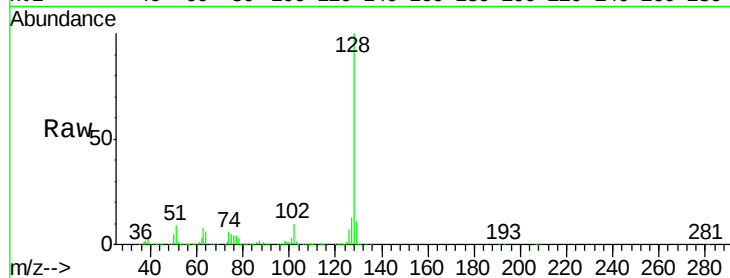
128 100

127 13.1 10.5 15.7

129 10.8 8.6 13.0

Manual Integrations
APPROVED

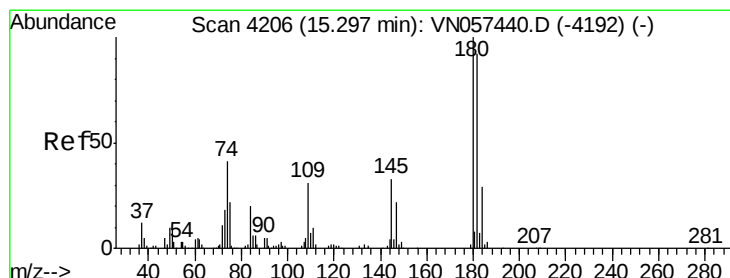
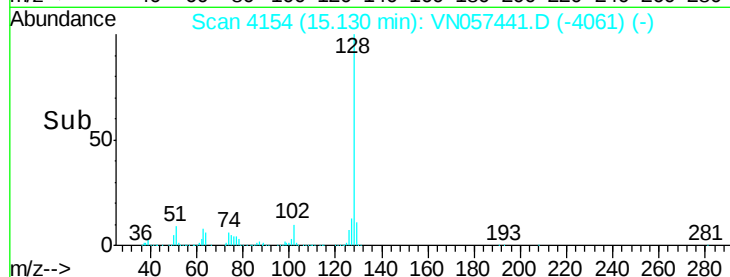
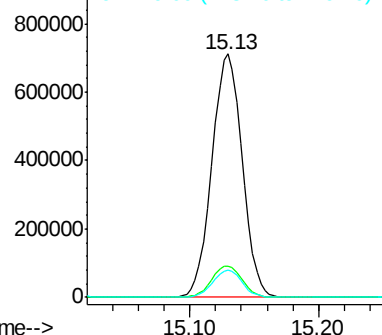
MMDadoda
8/23/2019 2:40:13 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 125.548 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. -0.00 min

Lab File: VN057441.D

Acq: 22 Aug 2019 18:43

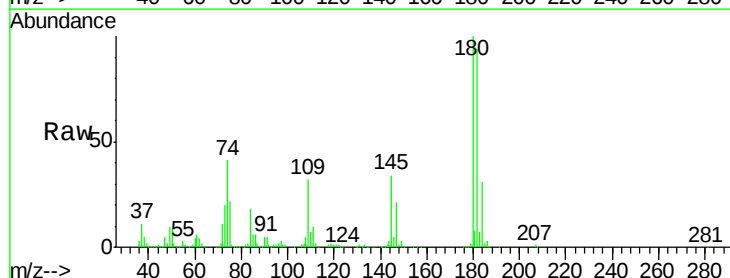
Tgt Ion:180 Resp: 363461

Ion Ratio Lower Upper

180 100

182 94.9 46.7 140.1

145 34.0 16.8 50.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

