

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090119\
 Data File : VN057619.D
 Acq On : 31 Aug 2019 17:24
 Operator : JC/SP
 Sample : VN0901WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/3/2019 11:52:19 AM

Quant Time: Sep 01 00:21:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 31 15:54:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	184706	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	314979	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	292406	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	115454	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	212109	50.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.68%	
35) Dibromofluoromethane	7.58	113	134667	48.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.92%	
50) Toluene-d8	10.08	98	543242	51.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.88%	
62) 4-Bromofluorobenzene	12.40	95	187666	46.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.46%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.84	85	62499	21.160	ug/l	99
3) Chloromethane	2.05	50	77191	22.670	ug/l	97
4) Vinyl Chloride	2.18	62	58647	21.990	ug/l	95
5) Bromomethane	2.51	94	40648	24.088	ug/l	100
6) Chloroethane	2.67	64	31957	21.452	ug/l	96
7) Trichlorofluoromethane	3.00	101	81233	21.699	ug/l	99
8) Diethyl Ether	3.40	74	25567	20.639	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	40217	21.190	ug/l	99
10) Methyl Iodide	3.92	142	51919	21.187	ug/l	98
11) Tert butyl alcohol	4.82	59	45638	104.285	ug/l #	95
12) 1,1-Dichloroethene	3.71	96	37558	21.830	ug/l	91
13) Acrolein	3.58	56	16795	96.521	ug/l	96
14) Allyl chloride	4.29	41	110368	20.563	ug/l	100
15) Acrylonitrile	4.97	53	140101	106.689	ug/l	100
16) Acetone	3.81	43	105666	90.363	ug/l	99
17) Carbon Disulfide	4.02	76	115974	20.851	ug/l	99
18) Methyl Acetate	4.31	43	81304	20.250	ug/l	99
19) Methyl tert-butyl Ether	5.03	73	190123	21.360	ug/l	97
20) Methylene Chloride	4.52	84	64351	22.229	ug/l	96
21) trans-1,2-Dichloroethene	5.01	96	54984	21.497	ug/l	98
22) Diisopropyl ether	5.94	45	233483	21.161	ug/l	97
23) Vinyl Acetate	5.88	43	912500	107.610	ug/l	99
24) 1,1-Dichloroethane	5.82	63	117983	21.302	ug/l	99
25) 2-Butanone	6.83	43	198911	102.084	ug/l	99
26) 2,2-Dichloropropane	6.81	77	83880	18.947	ug/l	78
27) cis-1,2-Dichloroethene	6.81	96	63777	20.881	ug/l	97
28) Bromochloromethane	7.18	49	60153	20.395	ug/l	97
29) Tetrahydrofuran	7.20	42	129134	105.636	ug/l	99
30) Chloroform	7.36	83	116904	20.806	ug/l	93
31) Cyclohexane	7.64	56	118318	21.404	ug/l	96
32) 1,1,1-Trichloroethane	7.55	97	95848	20.795	ug/l	99
36) 1,1-Dichloropropene	7.78	75	84894	20.329	ug/l	99
37) Ethyl Acetate	6.92	43	85671	21.537	ug/l	99
38) Carbon Tetrachloride	7.75	117	74742	19.995	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	101602	20.593	ug/l	98
40) Benzene	8.03	78	255455	21.015	ug/l	97
41) Methacrylonitrile	7.17	41	47769m	22.728	ug/l	
42) 1,2-Dichloroethane	8.11	62	105441	21.356	ug/l	99
43) Isopropyl Acetate	8.16	43	148824	20.795	ug/l	99
44) Trichloroethene	8.82	130	57313	20.784	ug/l	97
45) 1,2-Dichloropropane	9.11	63	72346	21.366	ug/l	96
46) Dibromomethane	9.20	93	44084	21.028	ug/l	97
47) Bromodichloromethane	9.40	83	83346	19.568	ug/l	99
48) Methyl methacrylate	9.19	41	77686	21.261	ug/l	97
49) 1,4-Dioxane	9.20	88	16762	391.757	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	446842	108.937	ug/l	100
52) Toluene	10.15	92	152147	21.177	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	84501	19.835	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	97355	19.764	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	58007	21.280	ug/l	98
56) Ethyl methacrylate	10.43	69	96140	21.135	ug/l	97
57) 1,3-Dichloropropane	10.71	76	106524	21.300	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	122580	92.106	ug/l	100
59) 2-Hexanone	10.75	43	313312	104.014	ug/l	97
60) Dibromochloromethane	10.90	129	53089	20.051	ug/l	100
61) 1,2-Dibromoethane	11.00	107	56278	20.504	ug/l	98
64) Tetrachloroethene	10.63	164	52174	20.607	ug/l	96
65) Chlorobenzene	11.43	112	153113	20.897	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	51531	20.165	ug/l	97
67) Ethyl Benzene	11.51	91	302085	21.219	ug/l	100
68) m/p-Xylenes	11.62	106	208717	41.615	ug/l	99
69) o-Xylene	11.95	106	102389	21.065	ug/l	100
70) Styrene	11.96	104	162567	20.207	ug/l	99
71) Bromoform	12.13	173	29449	19.796	ug/l #	96
73) Isopropylbenzene	12.25	105	276212	23.696	ug/l	100
74) N-amyl acetate	12.07	43	128070	23.281	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	79317	23.087	ug/l	96
76) 1,2,3-Trichloropropane	12.56	75	70931m	23.356	ug/l	
77) Bromobenzene	12.53	156	56895	22.933	ug/l	96
78) n-propylbenzene	12.59	91	298414	23.001	ug/l	98
79) 2-Chlorotoluene	12.68	91	190689	23.571	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	222727	23.226	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	16298	18.396	ug/l	90
82) 4-Chlorotoluene	12.78	91	175103	21.866	ug/l	99
83) tert-Butylbenzene	12.99	119	194949	23.959	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	211517	22.798	ug/l	99
85) sec-Butylbenzene	13.17	105	242373	22.145	ug/l	99
86) p-Isopropyltoluene	13.29	119	199704	22.063	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	87535	21.657	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	83650	21.426	ug/l	99
89) n-Butylbenzene	13.62	91	189687	22.363	ug/l	99
90) Hexachloroethane	13.88	117	31828	20.255	ug/l	97
91) 1,2-Dichlorobenzene	13.66	146	83649	21.688	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	11532	21.800	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	28163	22.328	ug/l	98
94) Hexachlorobutadiene	15.01	225	28244	21.340	ug/l	97
95) Naphthalene	15.13	128	81043	21.024	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	27189	21.477	ug/l	96

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

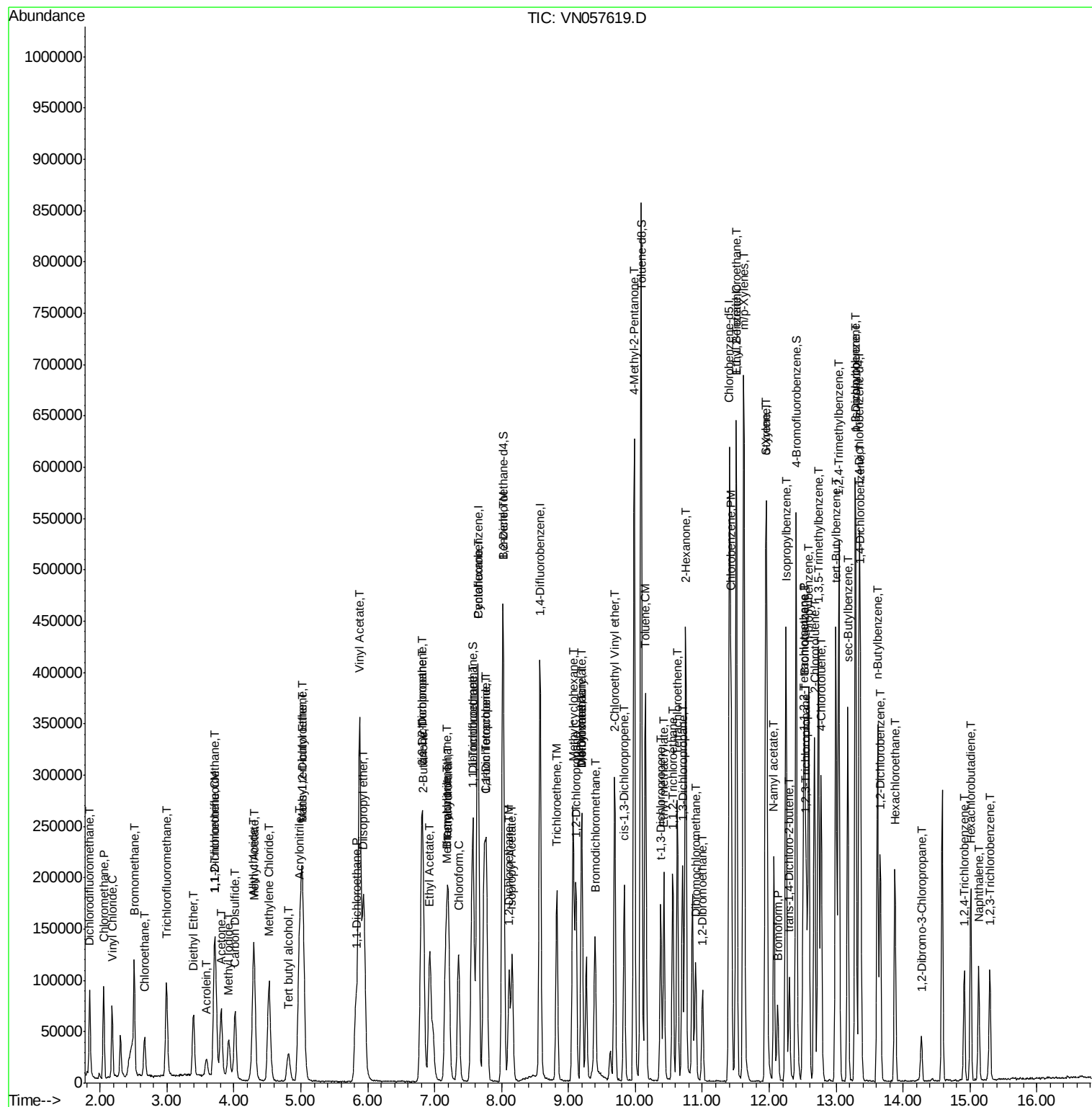
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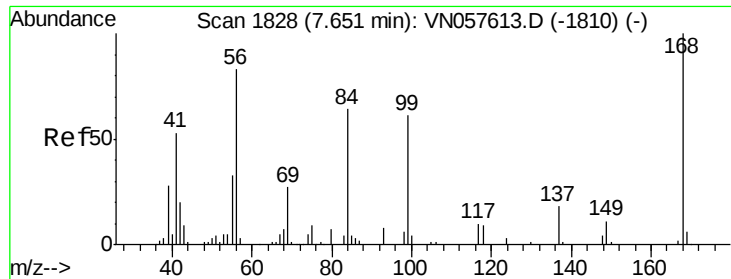
Instrument :
MSVOA_N
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBSD01

Tot Ion:168 Resp: 184706

Ion Ratio Lower Upper

168 100

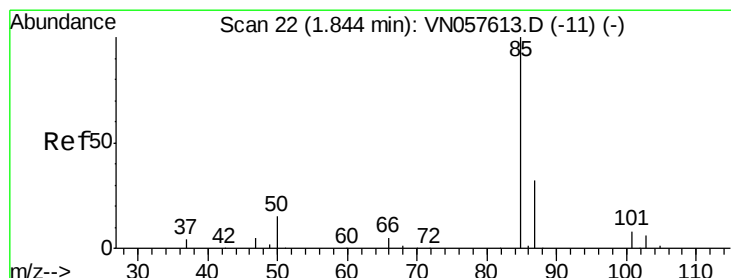
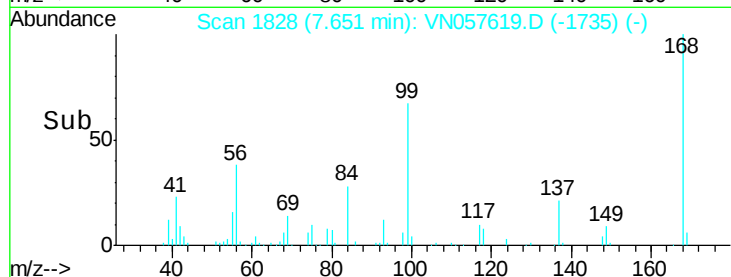
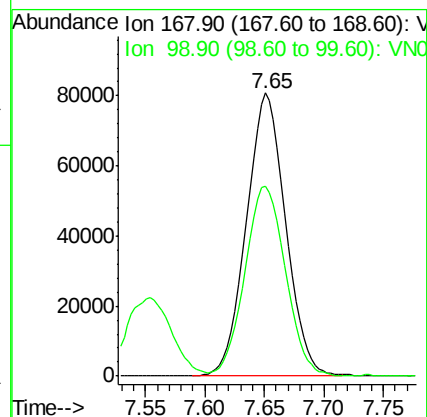
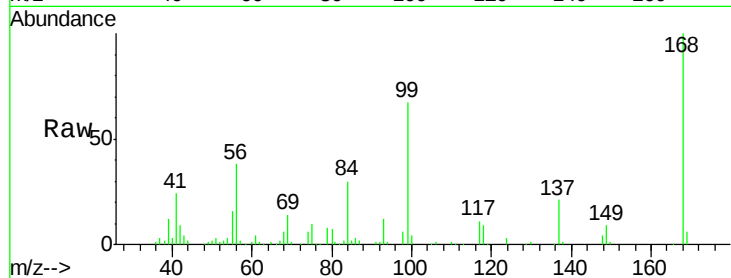
99 66.8 54.2 81.2

Manual Integrations

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9/3/2019 11:52:19 AM



#2

Dichlorodifluoromethane

Concen: 21.160 ug/l

RT: 1.84 min Scan# 22

Delta R.T. -0.00 min

Lab File: VN057619.D

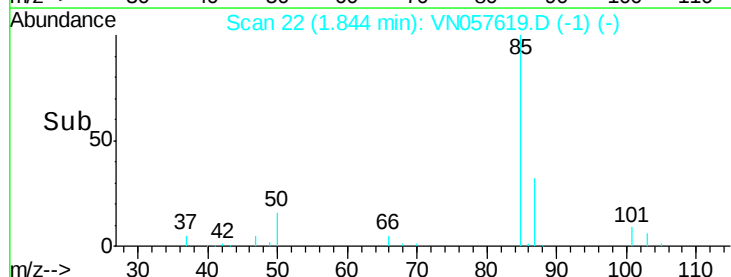
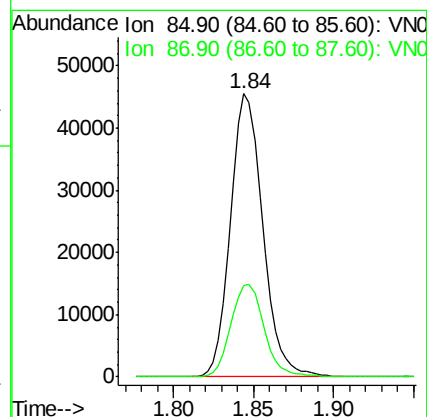
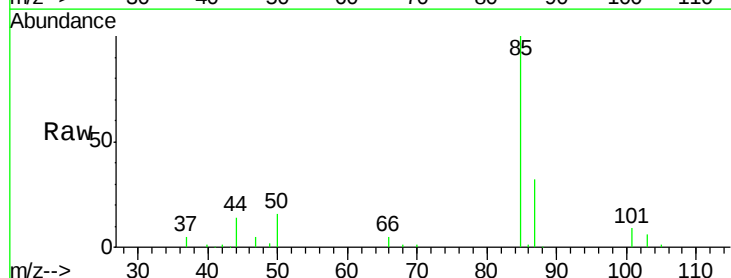
Acq: 31 Aug 2019 17:24

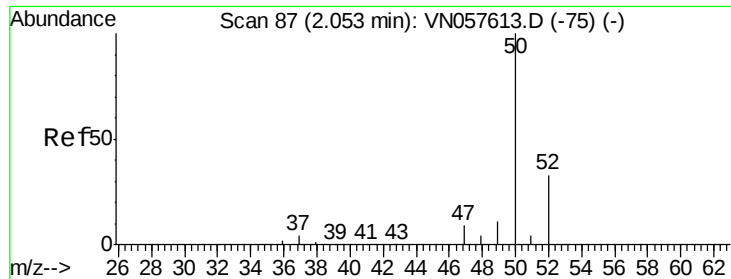
Tgt Ion: 85 Resp: 62499

Ion Ratio Lower Upper

85 100

87 32.1 16.2 48.6





#3

Chloromethane

Concen: 22.670 ug/l

RT: 2.05 min Scan# 87

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBSD01

Tot Ion: 50 Resp: 77191

Ion Ratio Lower Upper

50 100

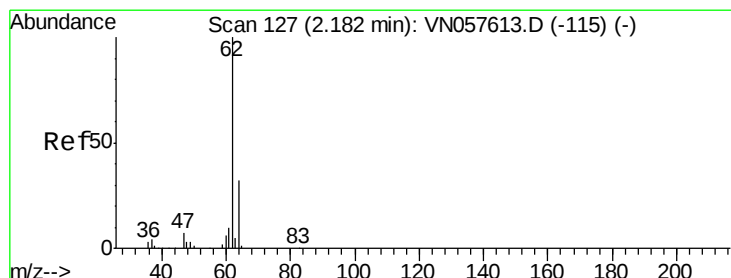
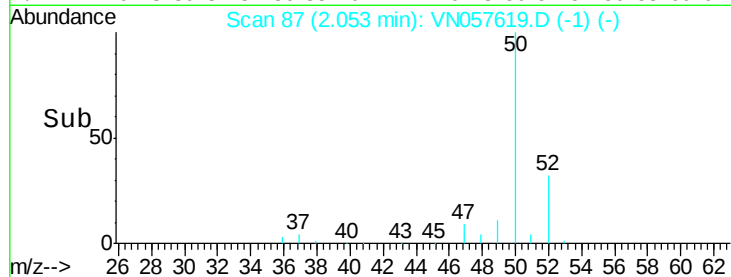
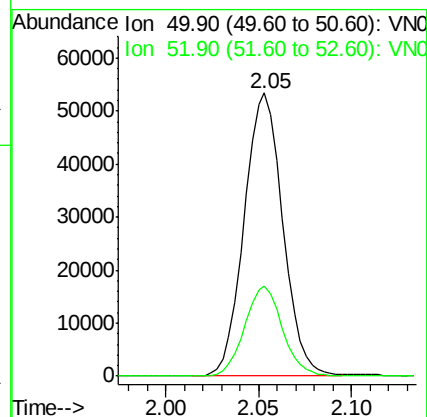
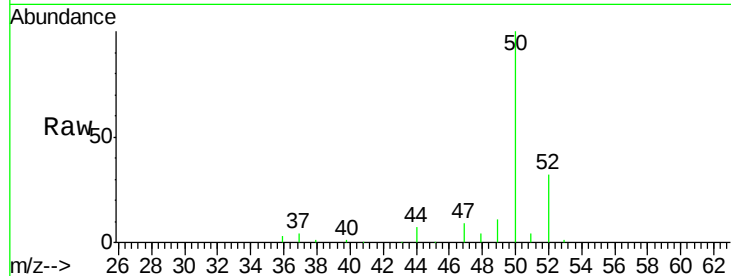
52 31.7 26.7 40.1

Manual Integrations

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9/3/2019 11:52:19 AM



#4

Vinyl Chloride

Concen: 21.990 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN057619.D

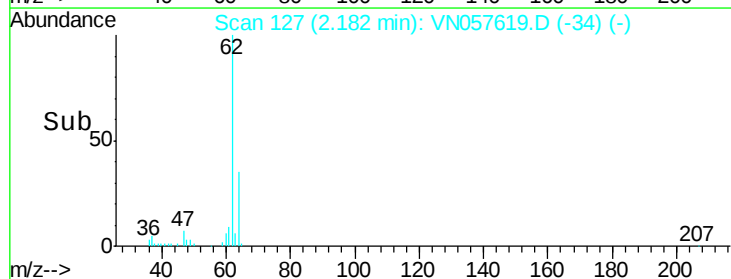
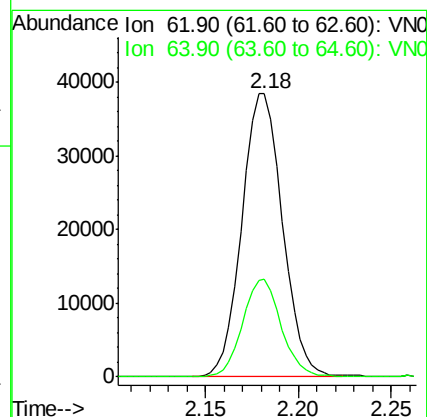
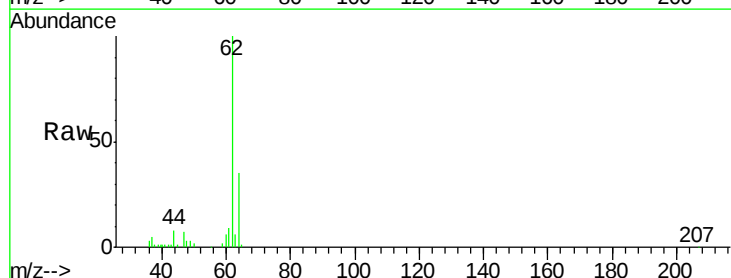
Acq: 31 Aug 2019 17:24

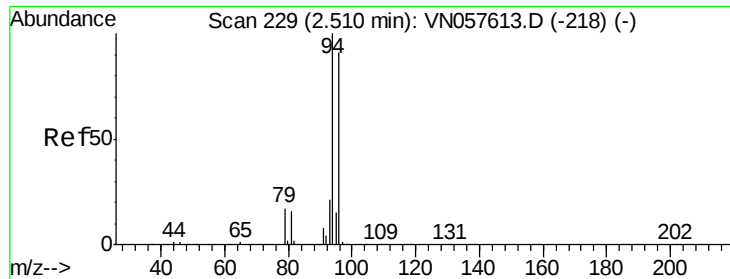
Tgt Ion: 62 Resp: 58647

Ion Ratio Lower Upper

62 100

64 34.5 25.2 37.8





#5

Bromomethane

Concen: 24.088 ug/l

RT: 2.51 min Scan# 230

Delta R.T. 0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

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ClientSampleId :

VN0901WBSD01

Tot Ion: 94 Resp: 40648

Ion Ratio Lower Upper

94 100

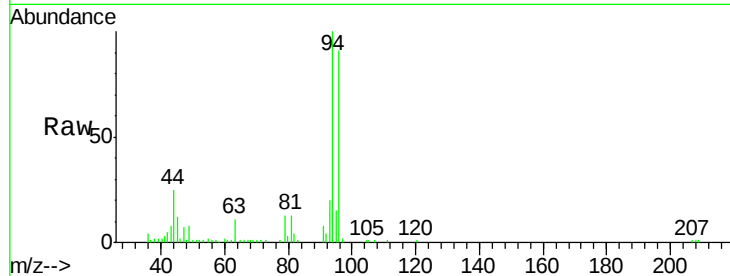
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Manual Integrations

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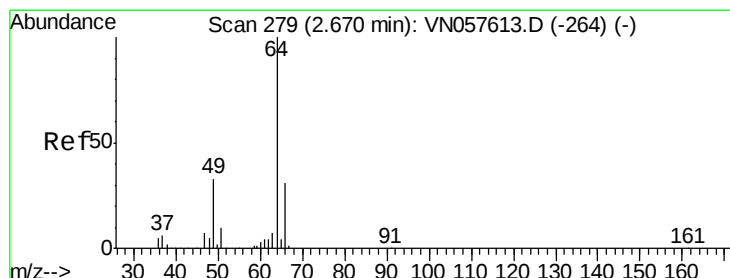
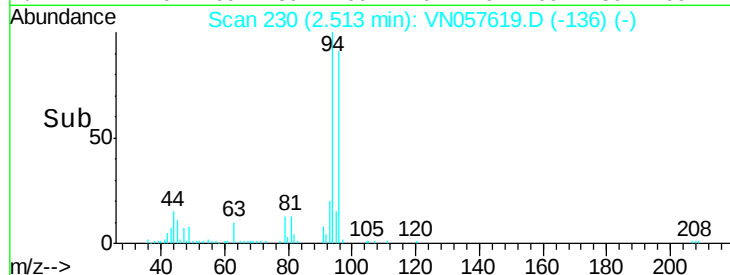
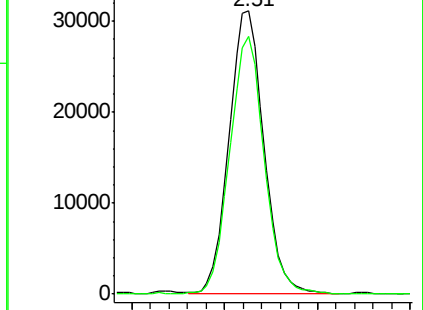
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9/3/2019 11:52:19 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 21.452 ug/l

RT: 2.67 min Scan# 278

Delta R.T. -0.00 min

Lab File: VN057619.D

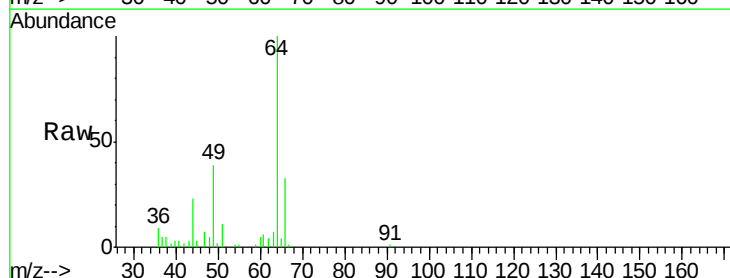
Acq: 31 Aug 2019 17:24

Tgt Ion: 64 Resp: 31957

Ion Ratio Lower Upper

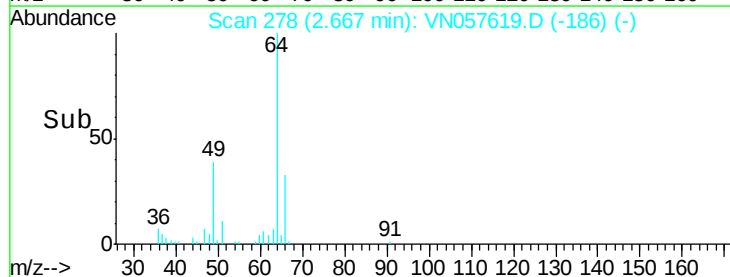
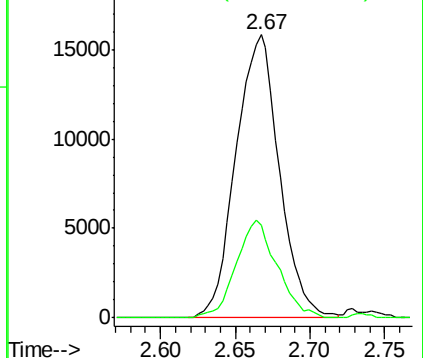
64 100

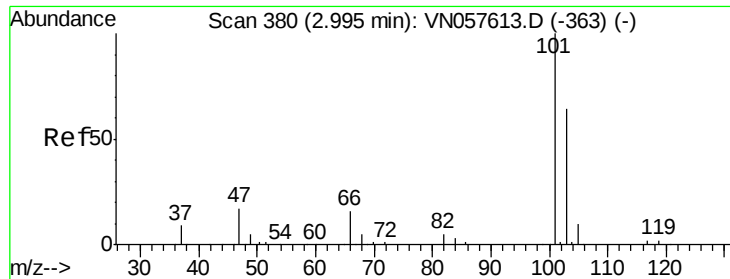
66 32.9 24.7 37.1



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

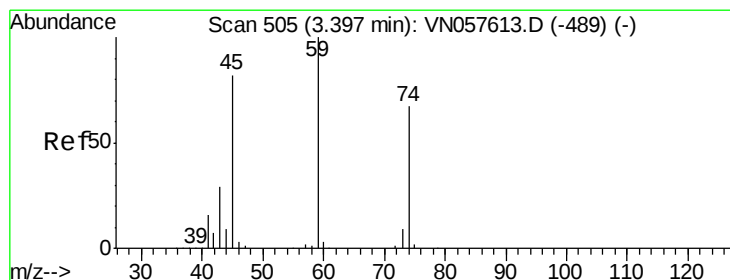
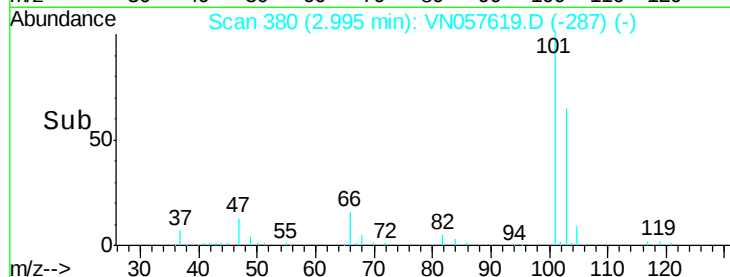
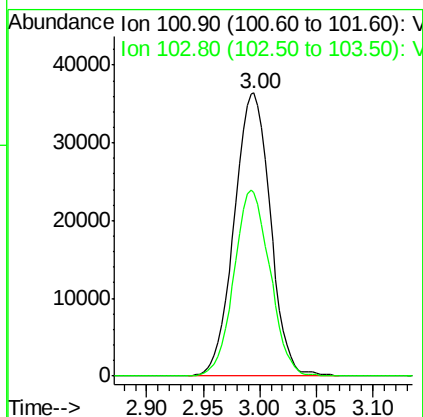
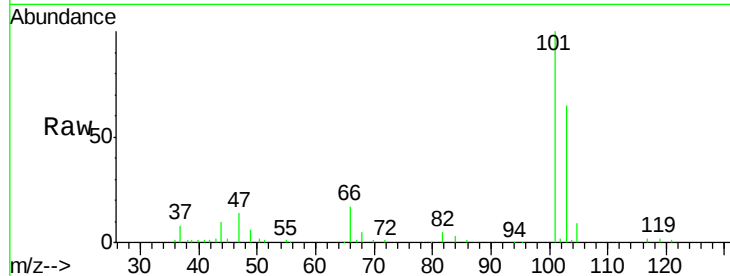
Trichlorofluoromethane
 Concen: 21.699 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
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 ClientSampleId :
 VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.3	76.9

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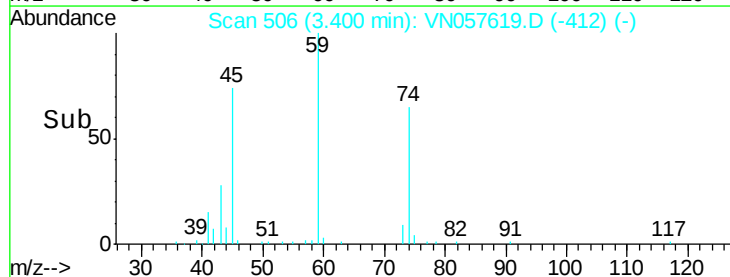
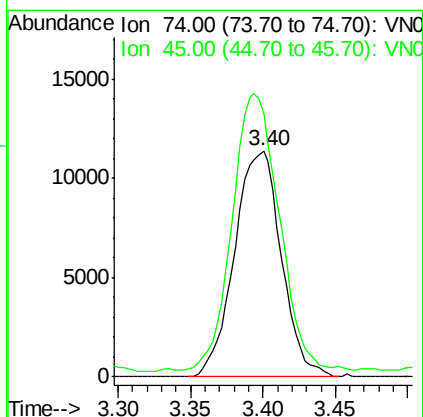
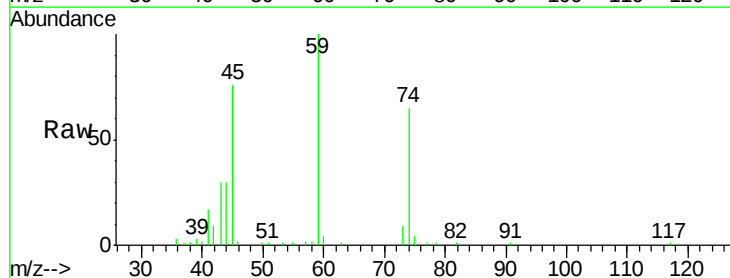
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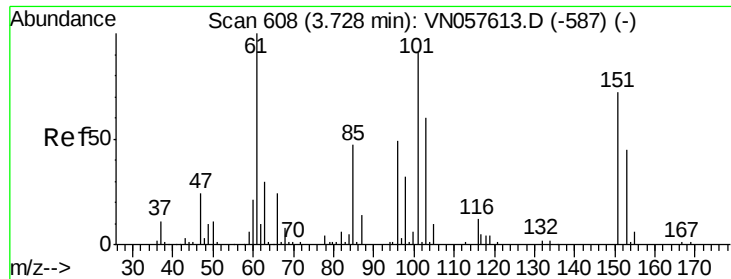


#8

Diethyl Ether
 Concen: 20.639 ug/l
 RT: 3.40 min Scan# 506
 Delta R.T. 0.00 min
 Lab File: VN057619.D
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	122.5	61.9	185.7





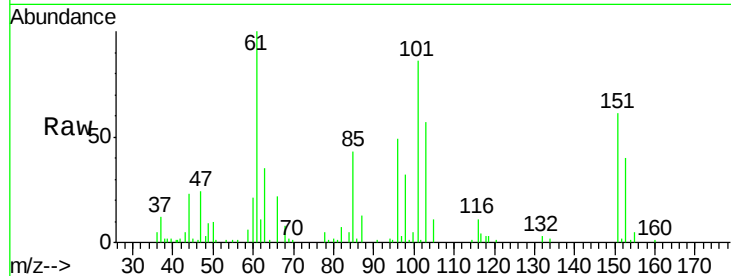
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.190 ug/l
RT: 3.73 min Scan# 607
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampled :
VN0901WBSD01

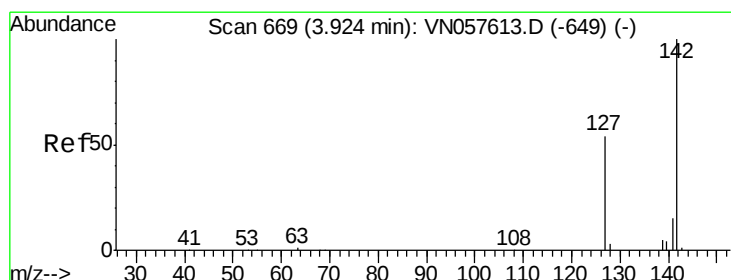
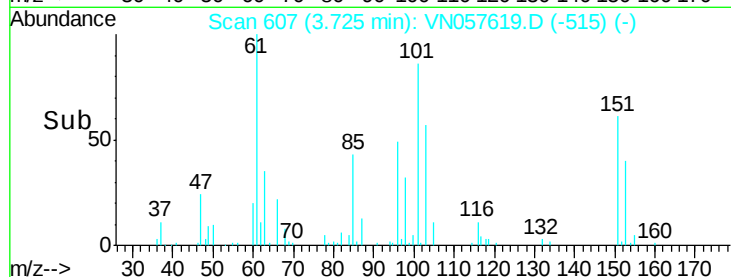
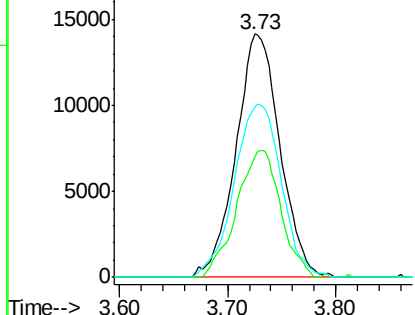
Tot Ion	Ratio	Resp	Lower	Upper
101	100	40217		
85	52.0		42.1	63.1
151	76.0		60.2	90.4

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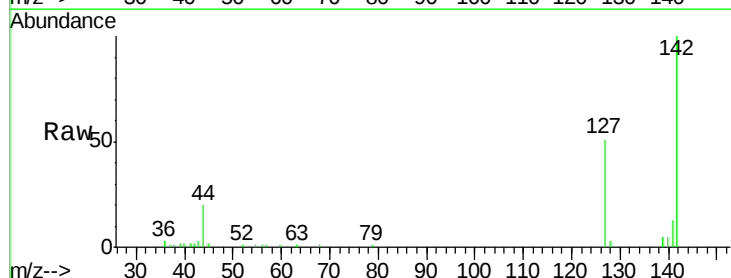


Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V

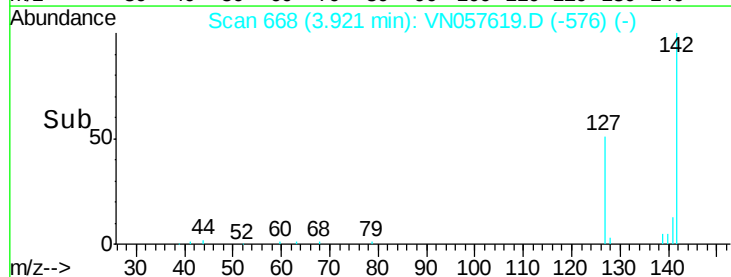
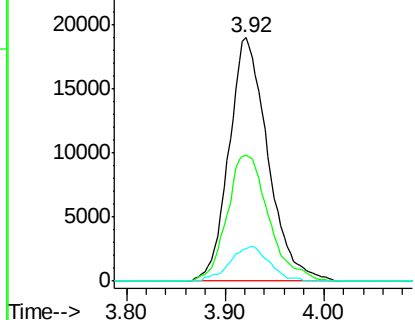


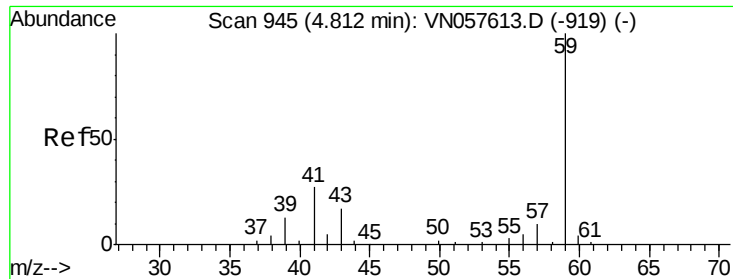
#10
Methyl Iodide
Concen: 21.187 ug/l
RT: 3.92 min Scan# 668
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	51919		
127	55.3		43.0	64.6
141	14.4		11.4	17.2



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

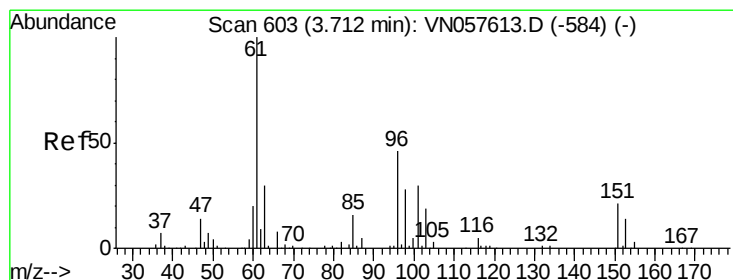
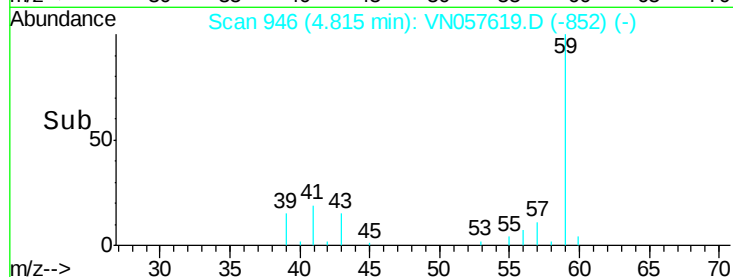
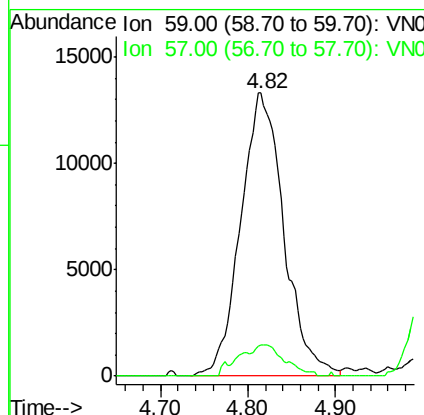
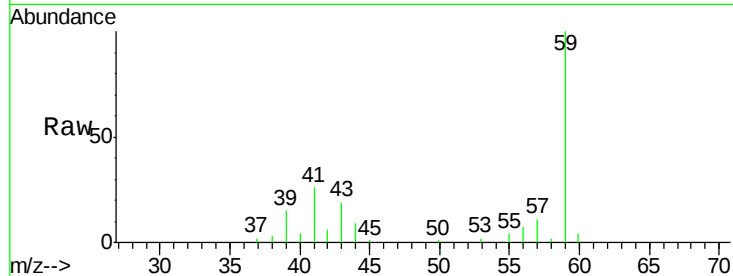
Tert butyl alcohol
 Concen: 104.285 ug/l
 RT: 4.82 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	59	100	45638		
57	57	8.0		5.0	7.6#

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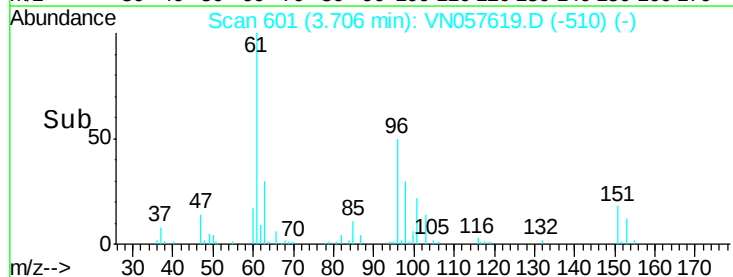
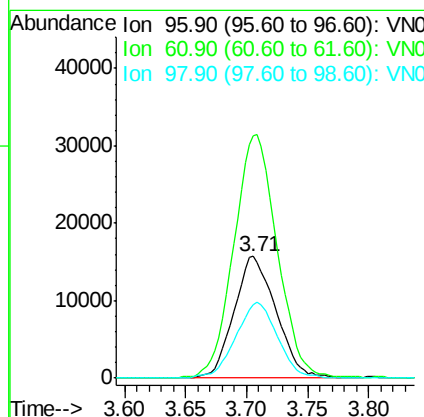
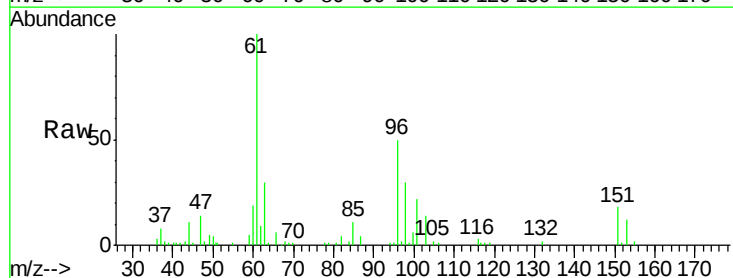
MMDadoda
 9/3/2019 11:52:19 AM

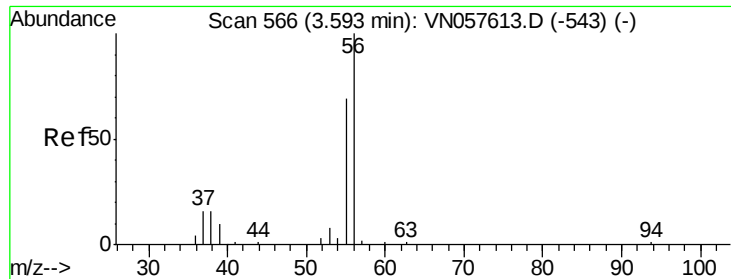


#12

1,1-Dichloroethene
 Concen: 21.830 ug/l
 RT: 3.71 min Scan# 601
 Delta R.T. -0.01 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	96	100	37558		
61	61	197.8		172.1	258.1
98	98	60.0		48.3	72.5





#13

Acrolein

Concen: 96.521 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.01 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBSD01

Tot Ion: 56 Resp: 16795

Ion Ratio Lower Upper

56 100

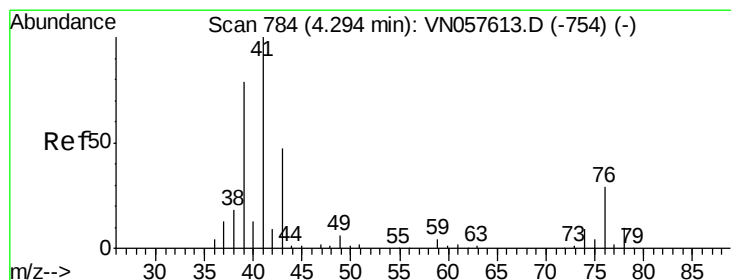
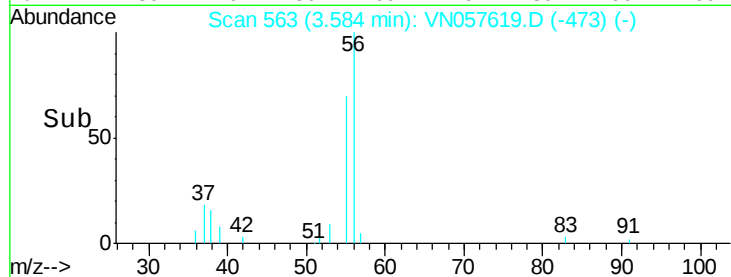
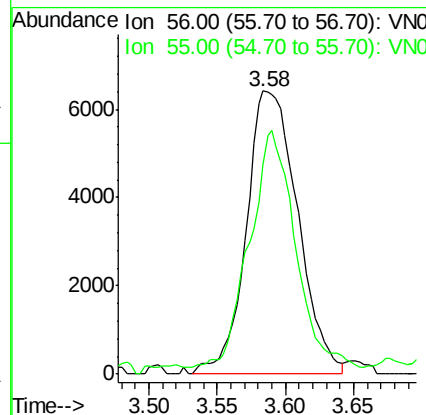
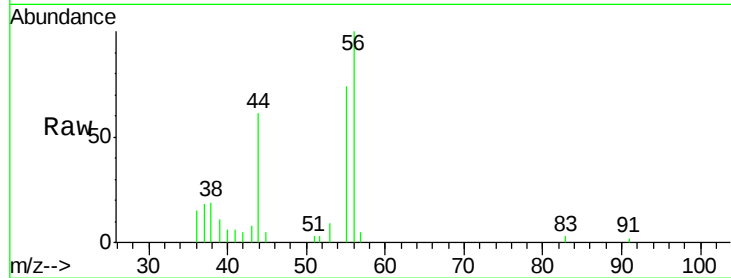
55 74.0 56.5 84.7

Manual Integrations

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#14

Allyl chloride

Concen: 20.563 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

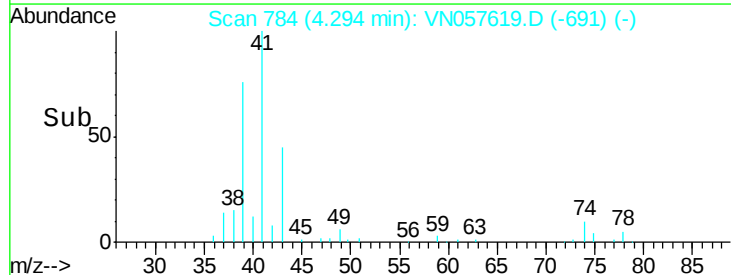
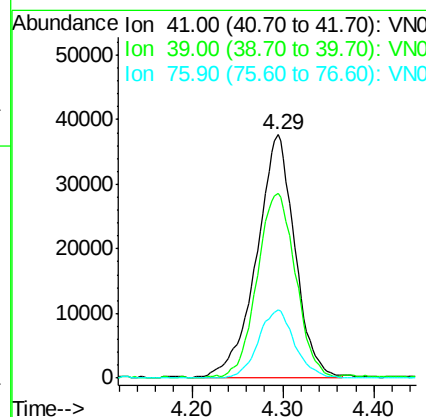
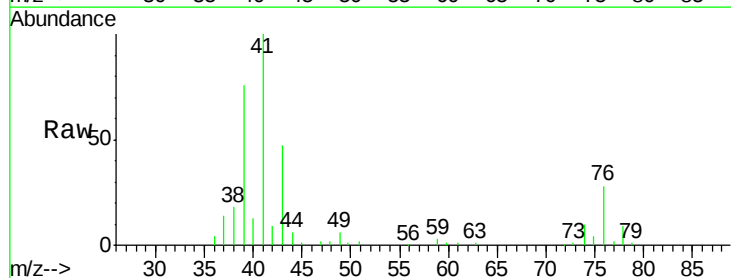
Tgt Ion: 41 Resp: 110368

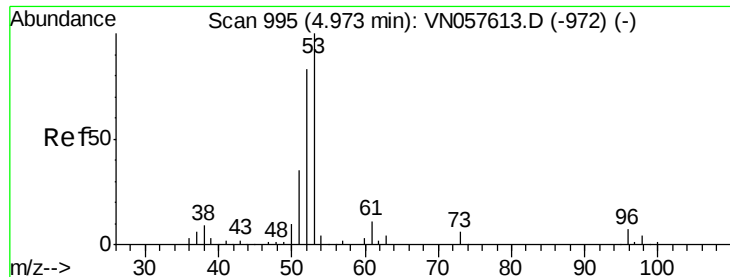
Ion Ratio Lower Upper

41 100

39 76.2 60.9 91.3

76 26.4 21.1 31.7





#15

Acrylonitrile

Concen: 106.689 ug/l

RT: 4.97 min Scan# 995

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

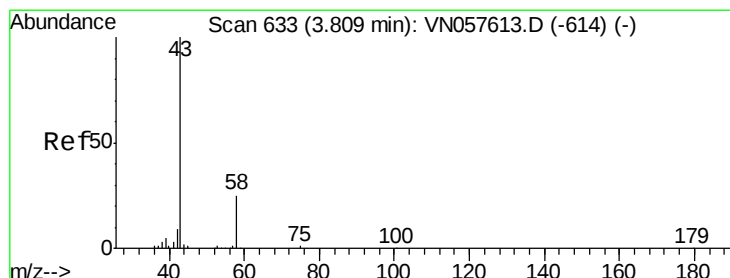
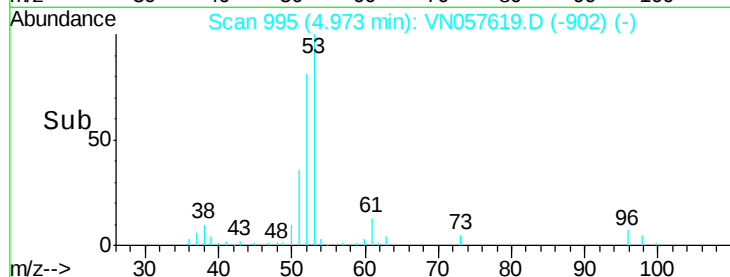
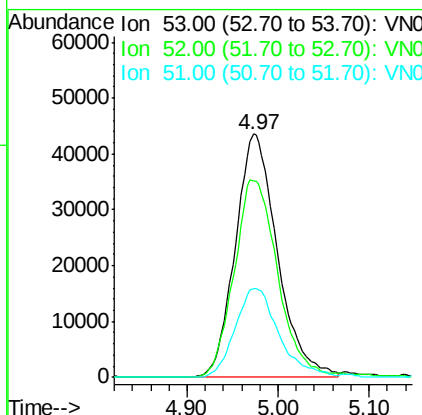
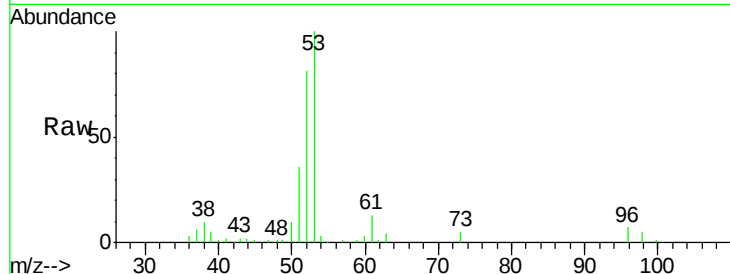
ClientSampleId :

VN0901WBSD01

Tot Ion:	53	Resp:	140101
Ion Ratio	Lower	Upper	
53	100		
52	84.0	67.1	100.7
51	38.0	30.2	45.4

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#16

Acetone

Concen: 90.363 ug/l

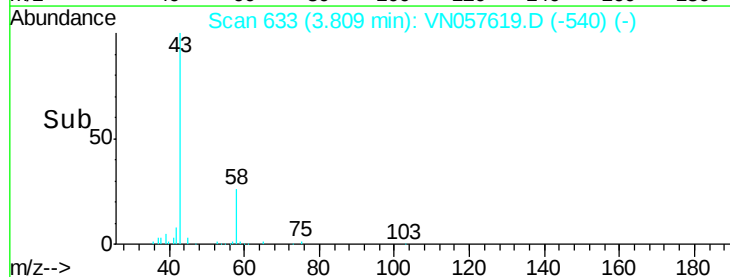
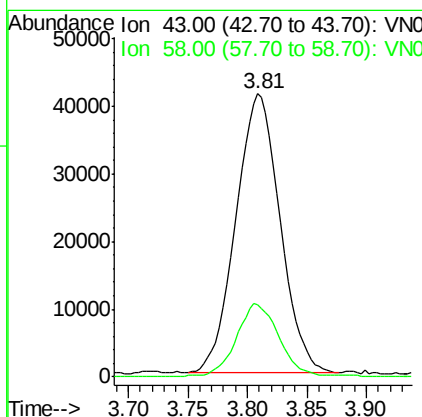
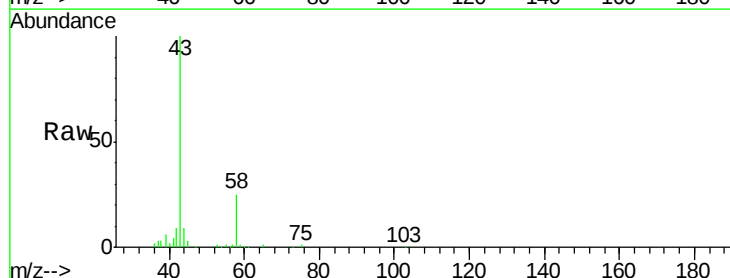
RT: 3.81 min Scan# 633

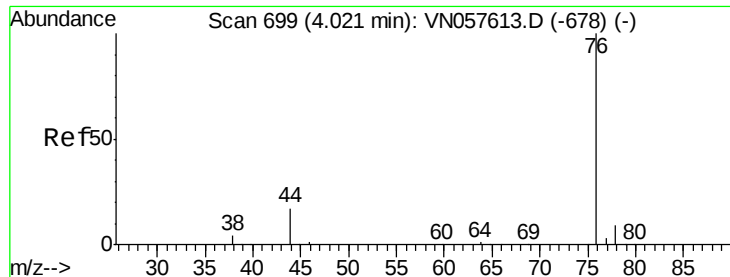
Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Tgt Ion:	43	Resp:	105666
Ion Ratio	Lower	Upper	
43	100		
58	25.3	20.0	30.0





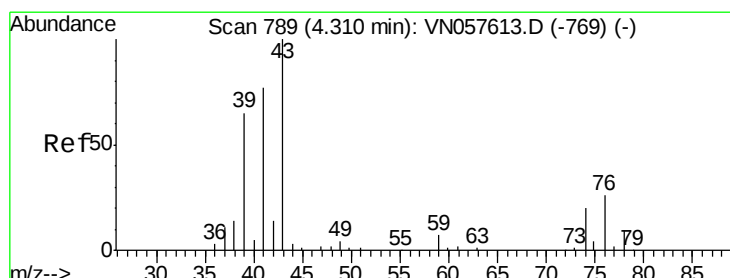
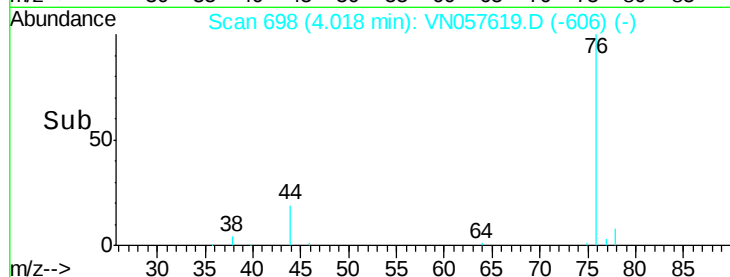
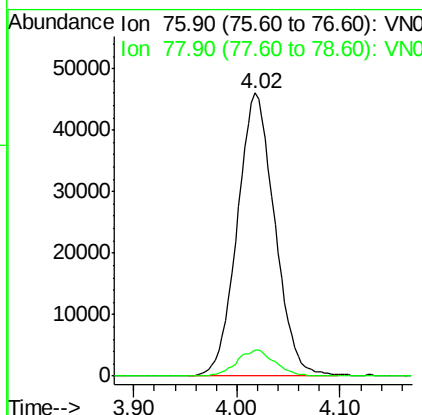
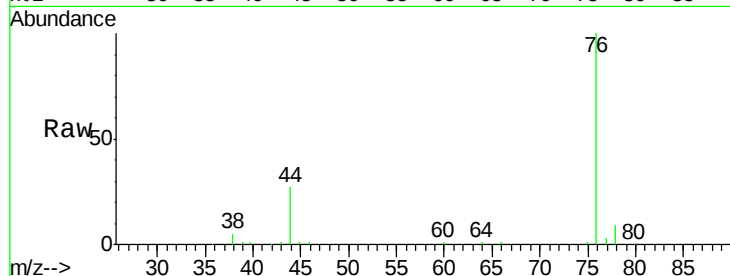
#17
Carbon Disulfide
Concen: 20.851 ug/l
RT: 4.02 min Scan# 698
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampled :
VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.9	10.3

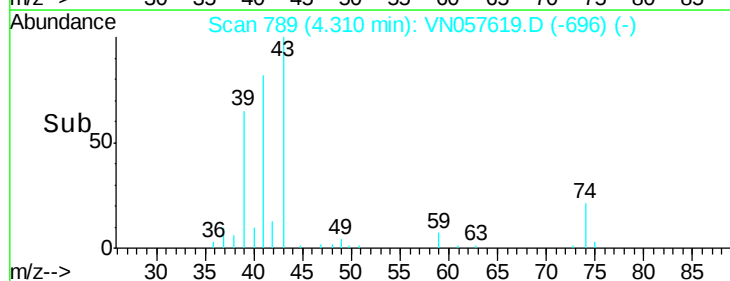
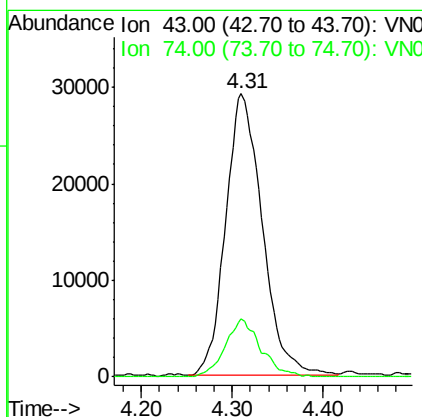
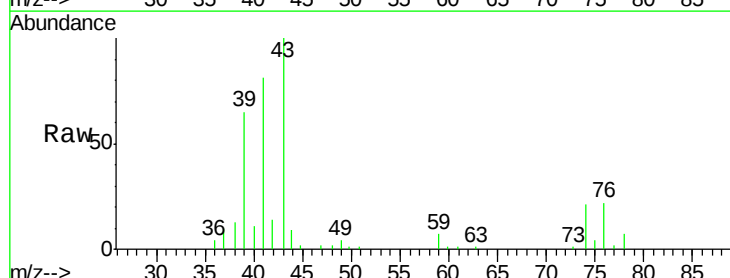
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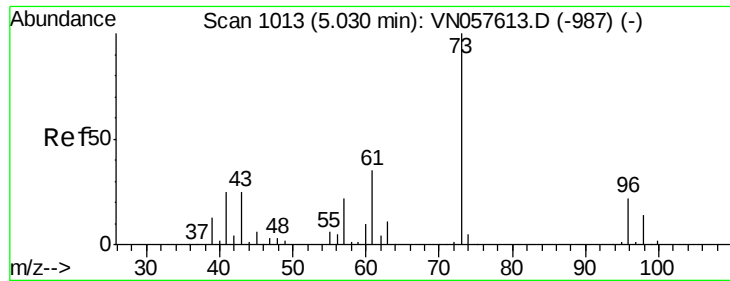
MMDadoda
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#18
Methyl Acetate
Concen: 20.250 ug/l
RT: 4.31 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.9	15.7	23.5





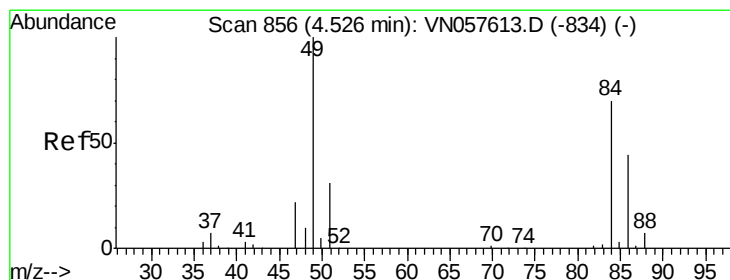
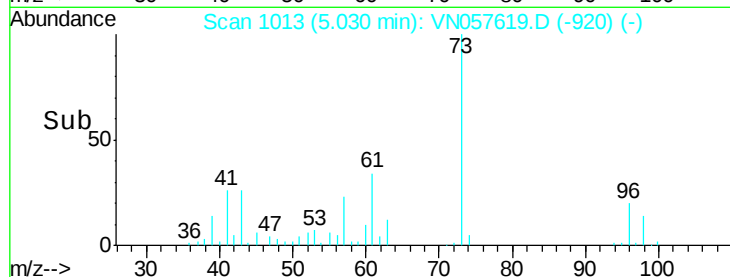
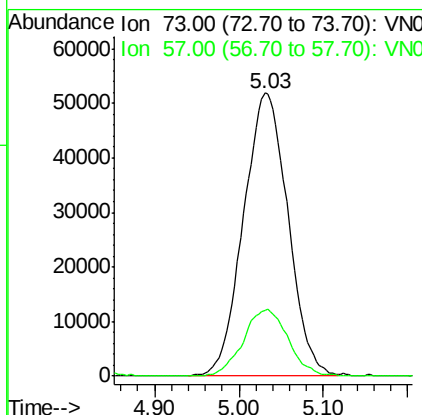
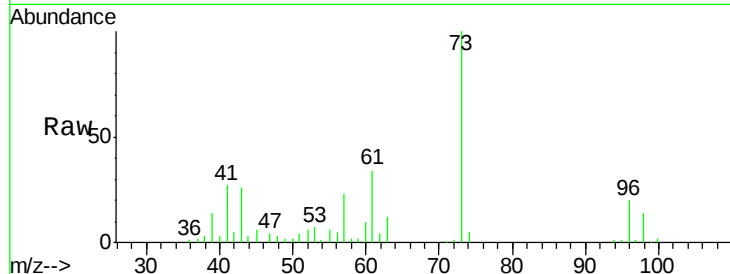
#19
Methvl tert-butvl Ether
Concen: 21.360 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBSD01

Tot Ion: 73 Resp: 190123
Ion Ratio Lower Upper
73 100
57 23.2 17.3 25.9

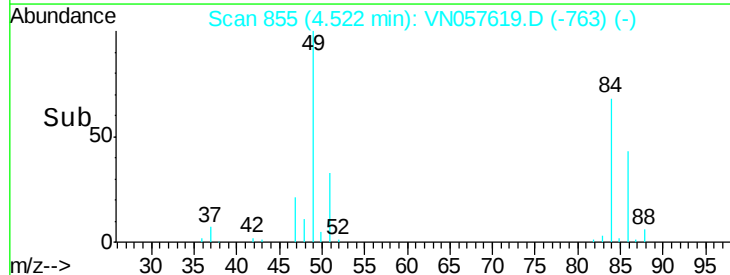
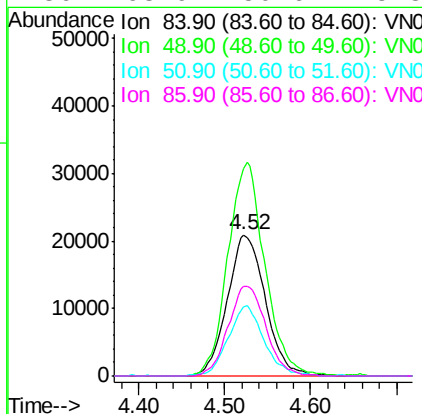
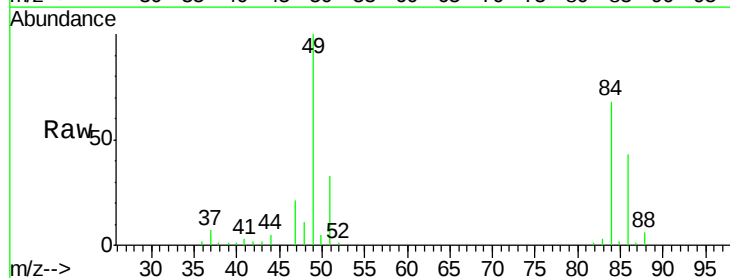
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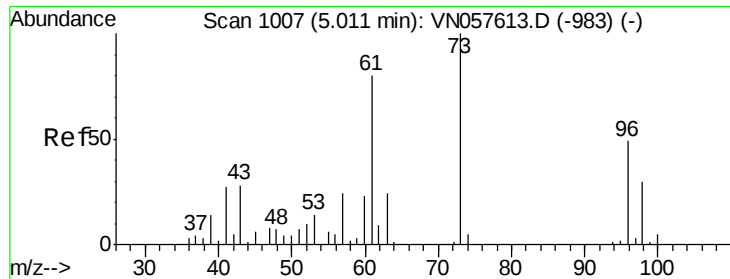
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#20
Methylene Chloride
Concen: 22.229 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion: 84 Resp: 64351
Ion Ratio Lower Upper
84 100
49 146.9 113.8 170.6
51 48.0 35.0 52.6
86 63.9 50.6 75.8





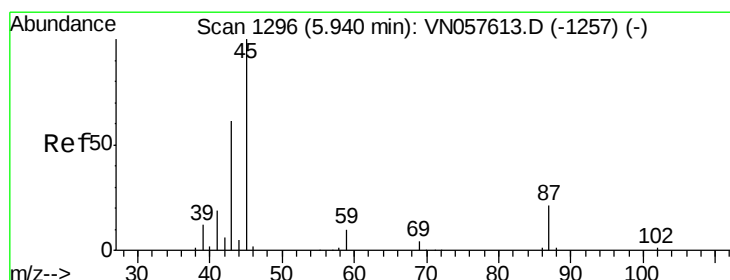
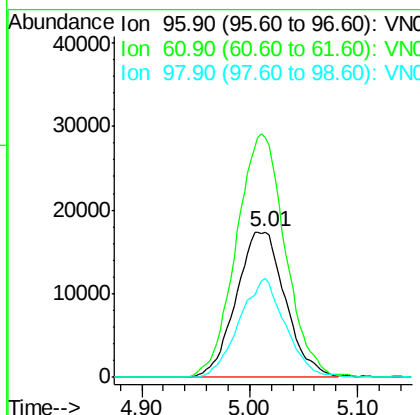
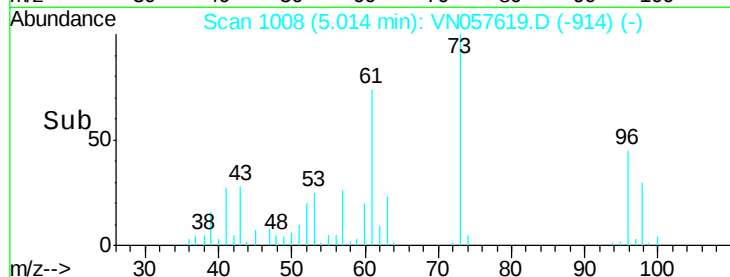
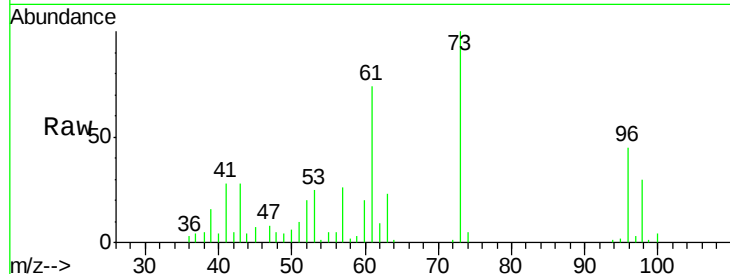
#21
trans-1,2-Dichloroethene
Concen: 21.497 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampled :
VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	164.8	131.6	197.4
98	67.7	49.9	74.9

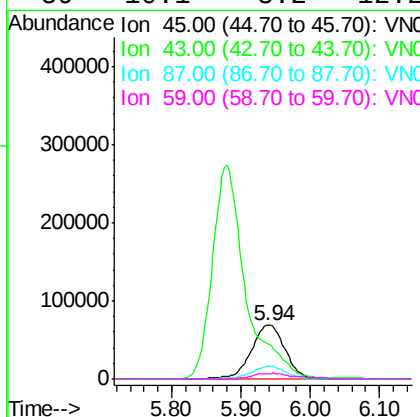
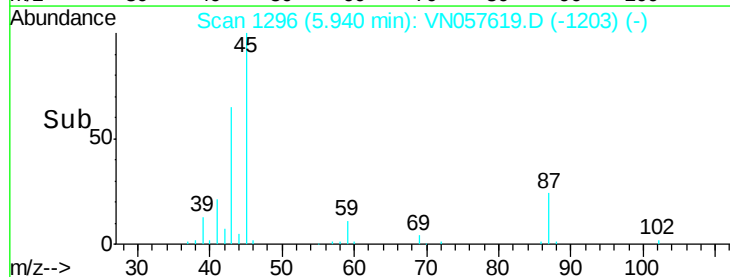
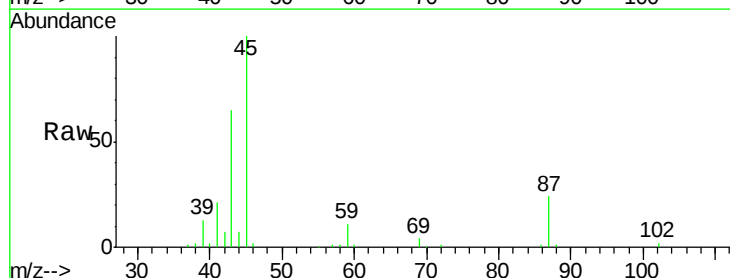
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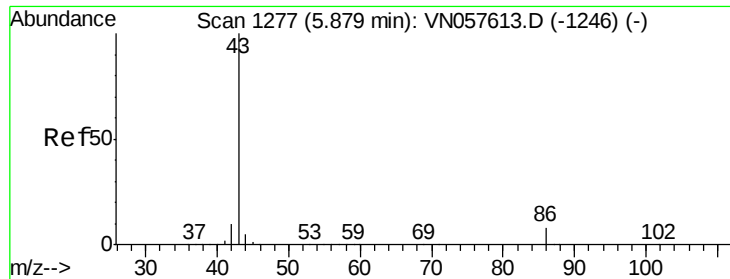
MMDadoda
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#22
Diisopropyl ether
Concen: 21.161 ug/l
RT: 5.94 min Scan# 1296
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
45	100		
43	63.0	49.1	73.7
87	24.4	17.0	25.6
59	10.1	8.2	12.2





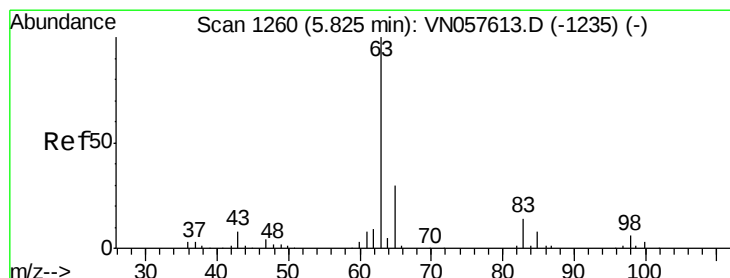
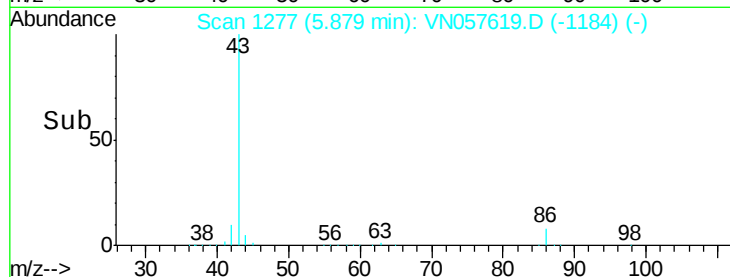
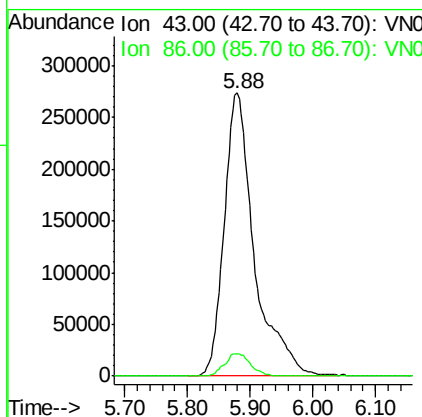
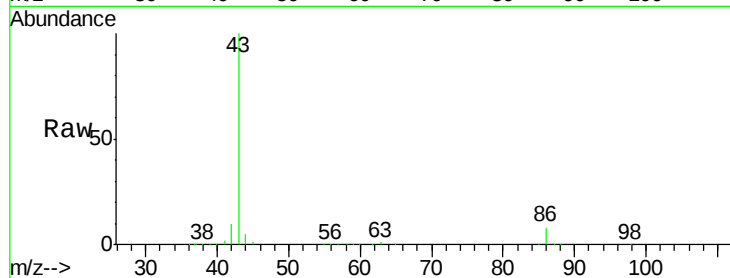
#23
 Vinyl Acetate
 Concen: 107.610 ug/l
 RT: 5.88 min Scan# 1277
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBSD01

Tot Ion	43	Resp	912500
Ion Ratio	100	Lower	Upper
43	100		
86	7.9	6.1	9.1

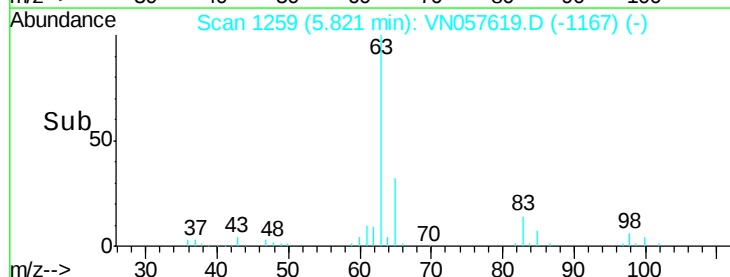
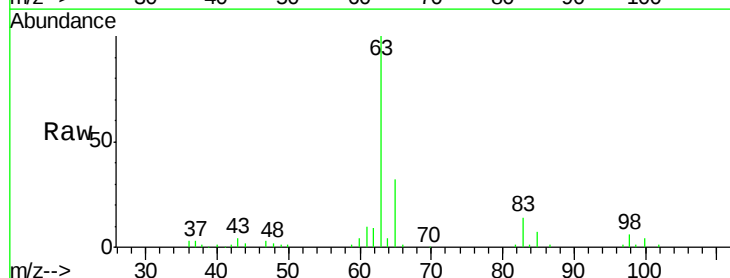
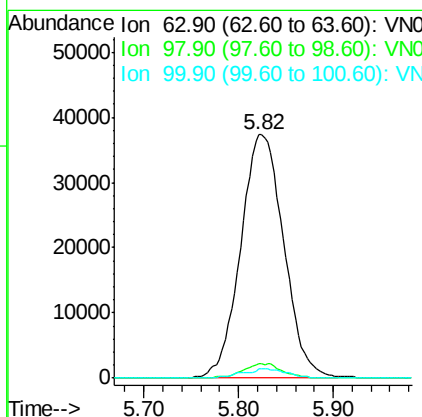
Manual Integrations
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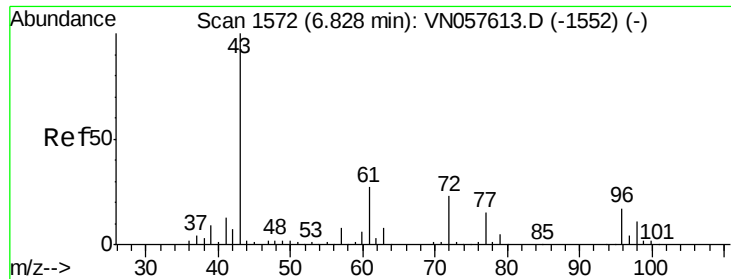
MMDadoda
 9/3/2019 11:52:19 AM



#24
 1,1-Dichloroethane
 Concen: 21.302 ug/l
 RT: 5.82 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Tgt Ion	63	Resp	117983
Ion Ratio	100	Lower	Upper
63	100		
98	5.9	2.8	8.4
100	3.8	1.5	4.5





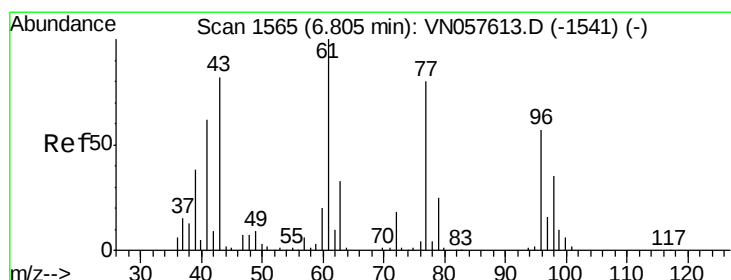
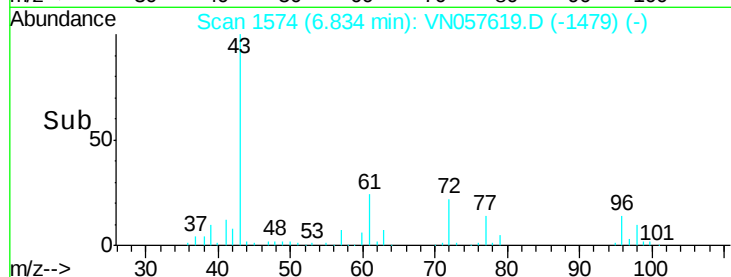
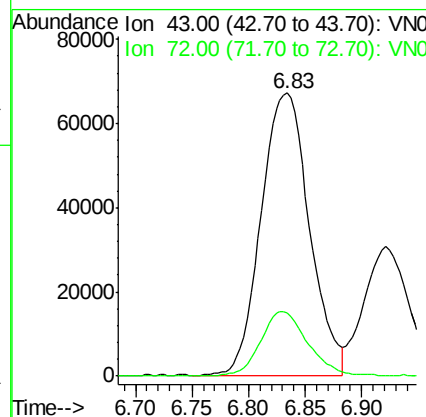
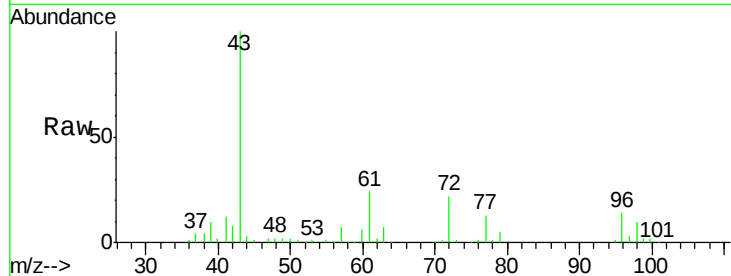
#25
2-Butanone
Concen: 102.084 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampled :
VN0901WBSD01

Tot Ion	43	Resp	198911
Ion Ratio	100	Lower	Upper
72	22.3	18.2	27.4

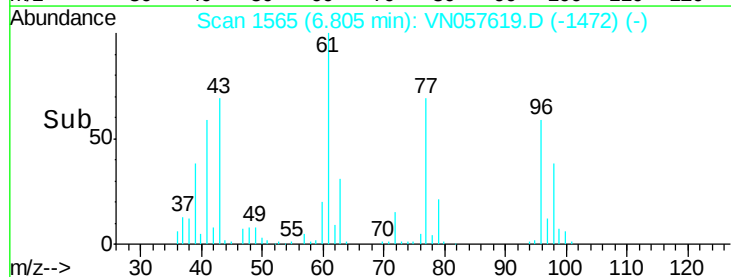
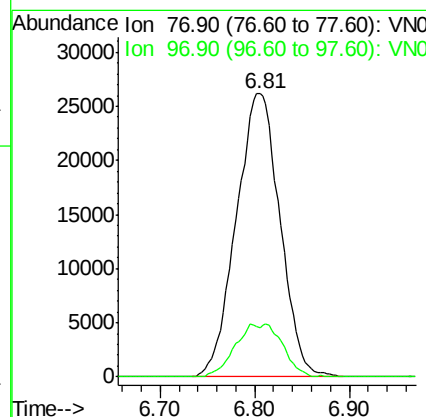
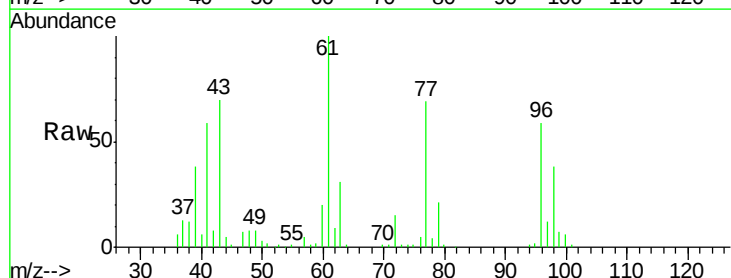
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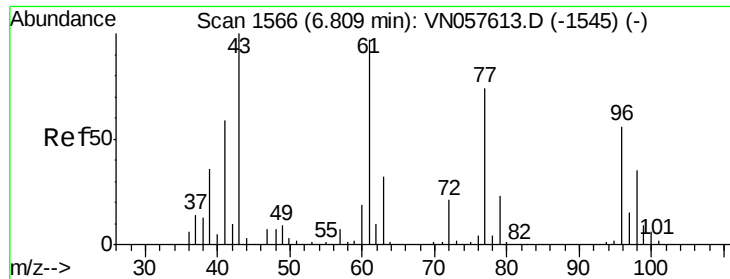
MMDadoda
9/3/2019 11:52:19 AM



#26
2,2-Dichloropropane
Concen: 18.947 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	77	Resp	83880
Ion Ratio	100	Lower	Upper
97	10.8	10.6	31.8





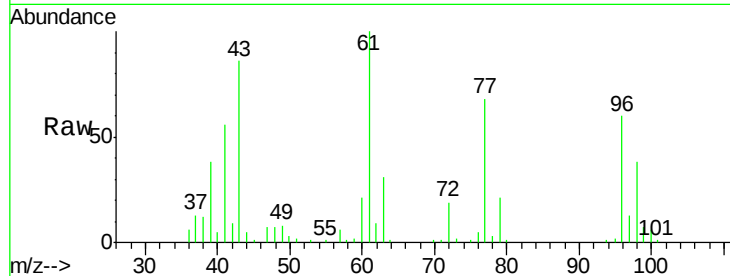
#27
 cis-1,2-Dichloroethene
 Concen: 20.881 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	174.0	0.0	344.6
98	67.9	0.0	124.8

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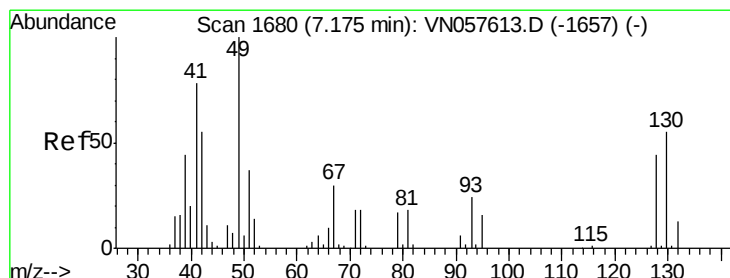
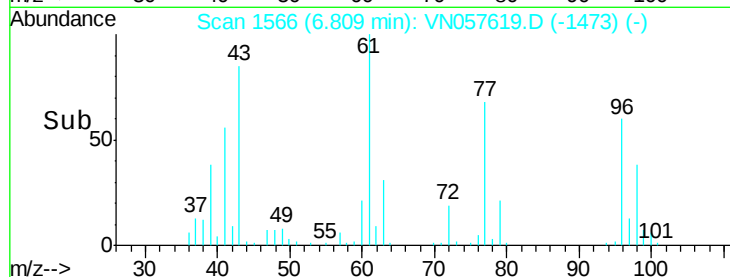
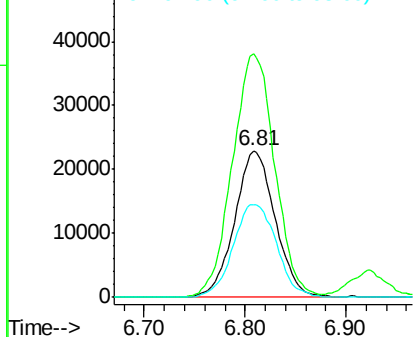


Abundance

Ion 95.90 (95.60 to 96.60): VN0

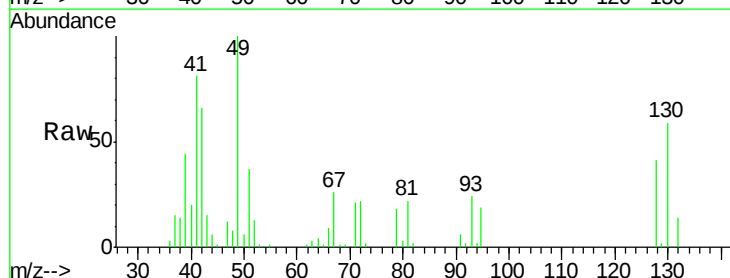
Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28
 Bromochloromethane
 Concen: 20.395 ug/l
 RT: 7.18 min Scan# 1681
 Delta R.T. 0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	1.8
130	59.5	45.8	68.8

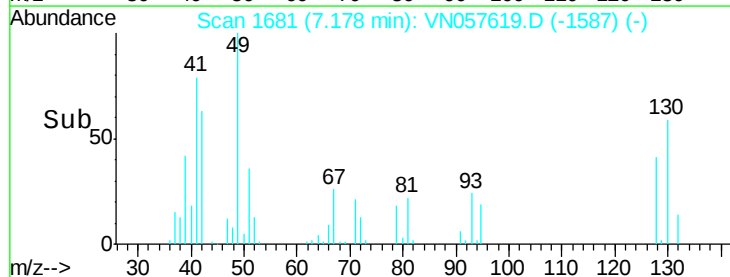
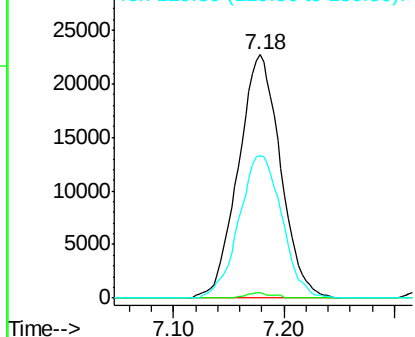


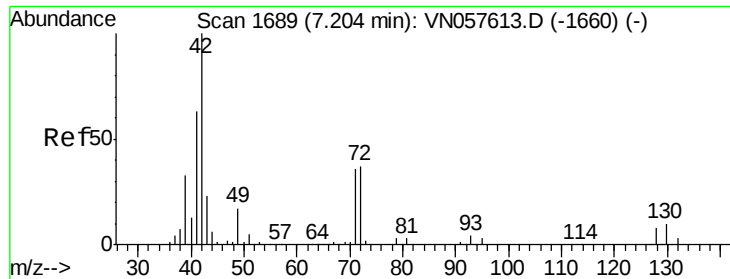
Abundance

Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





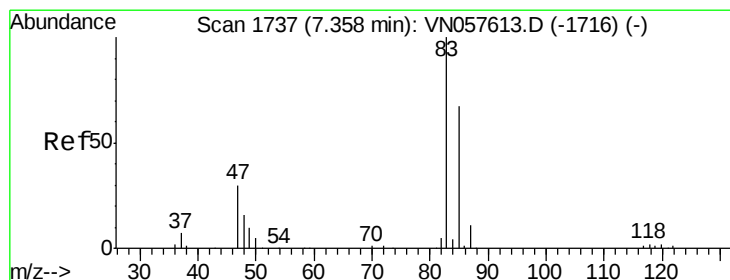
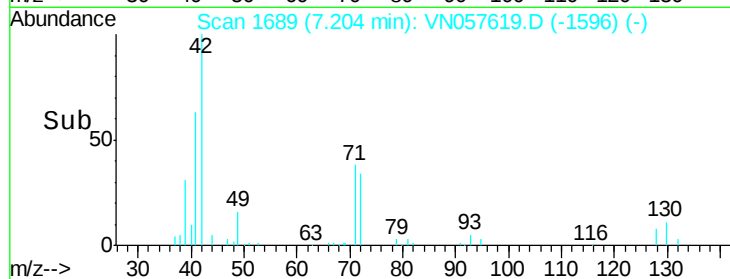
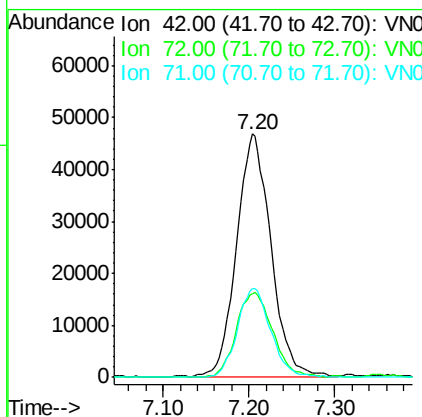
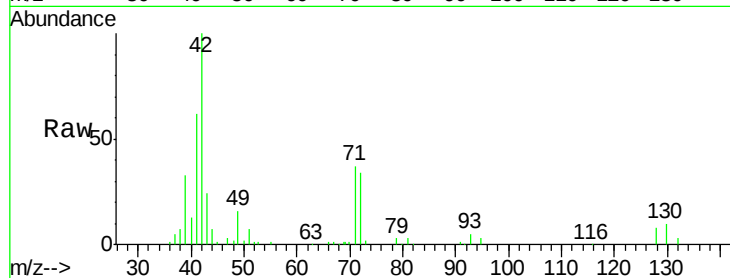
#29
Tetrahydrofuran
Concen: 105.636 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.1	29.6	44.4
71	35.9	27.9	41.9

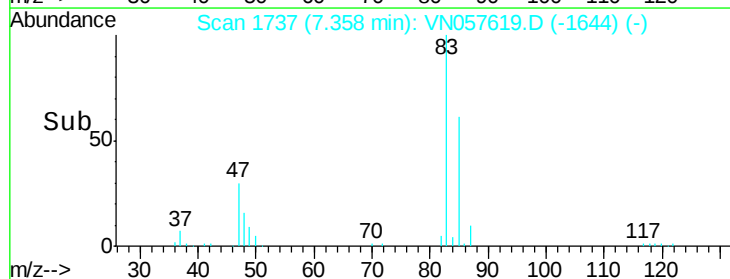
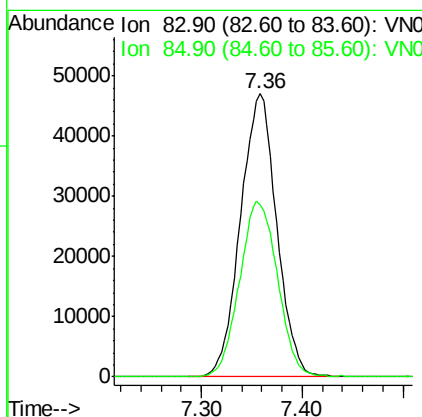
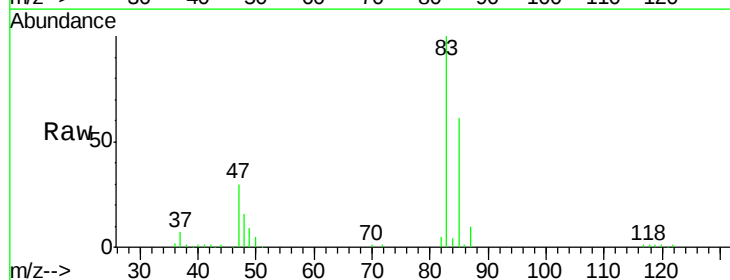
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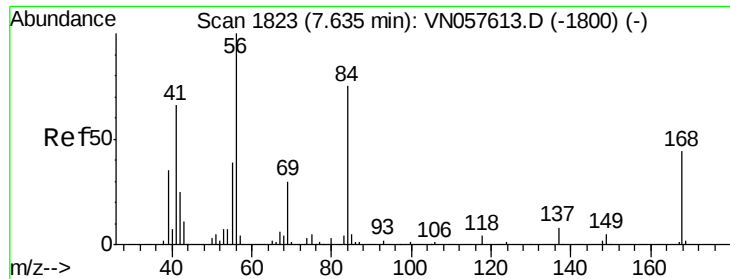
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9/3/2019 11:52:19 AM



#30
Chloroform
Concen: 20.806 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.0	53.2	79.8





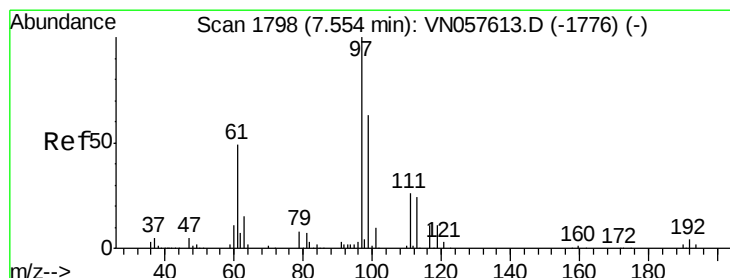
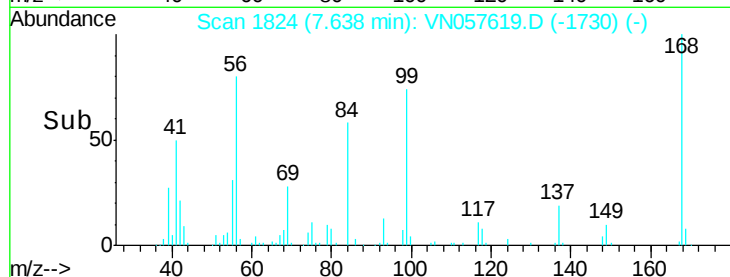
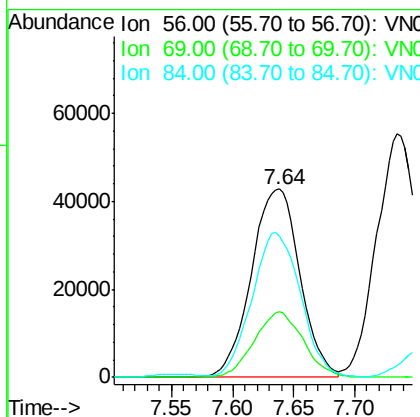
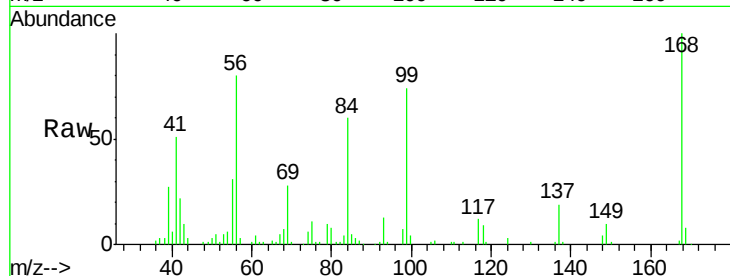
#31
Cyclohexane
Concen: 21.404 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
56	100	118318		
69	35.1	24.4	36.6	
84	72.9	59.9	89.9	

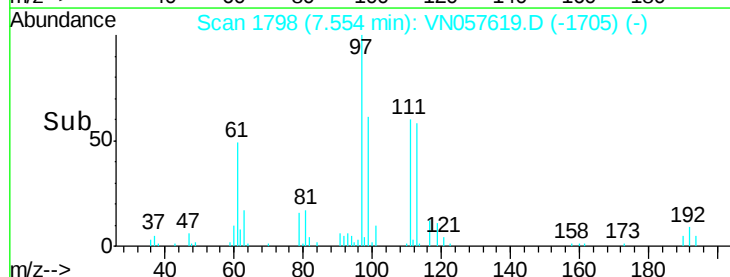
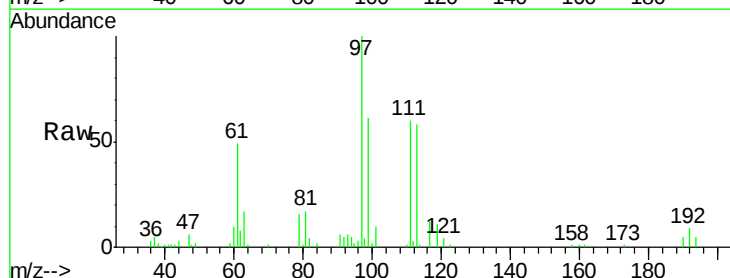
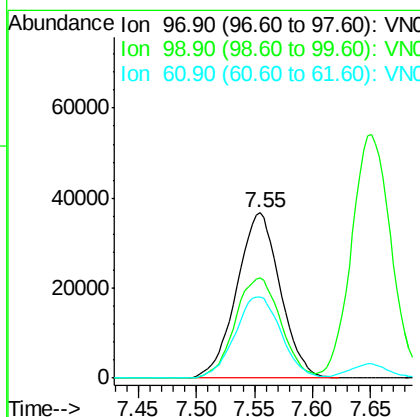
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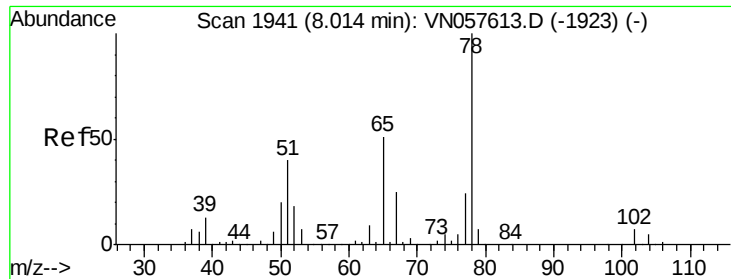
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 20.795 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	95848		
99	63.4	50.6	75.8	
61	52.0	41.1	61.7	





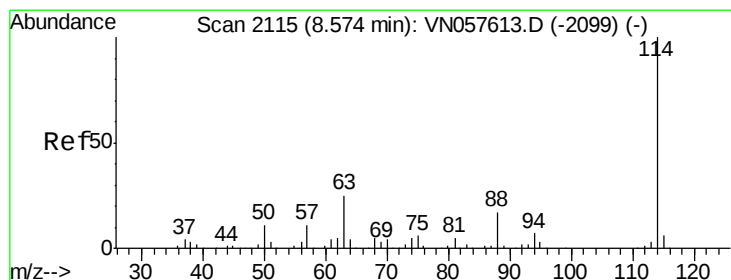
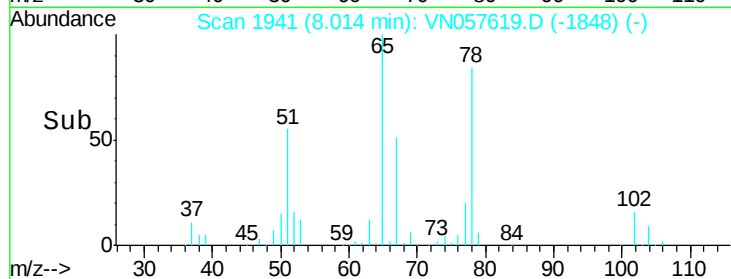
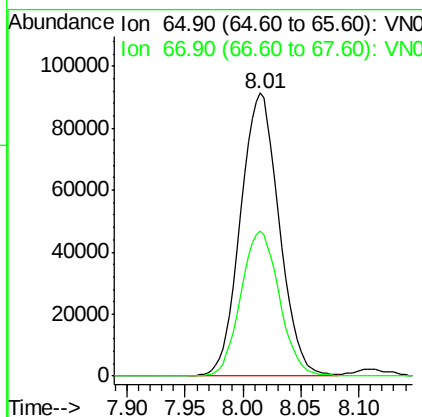
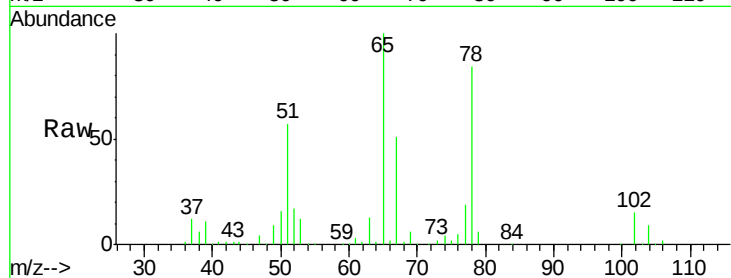
#33
 1,2-Dichloroethane-d4
 Concen: 50.835 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	212109		
67	51.0	0.0	102.2	

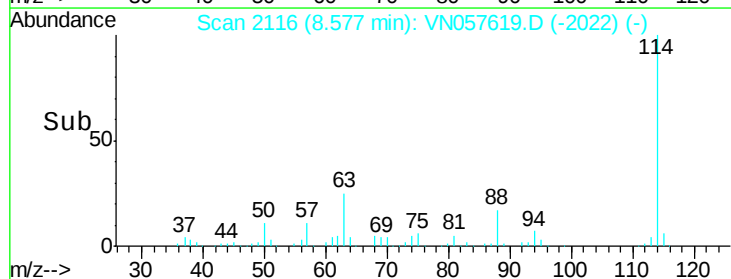
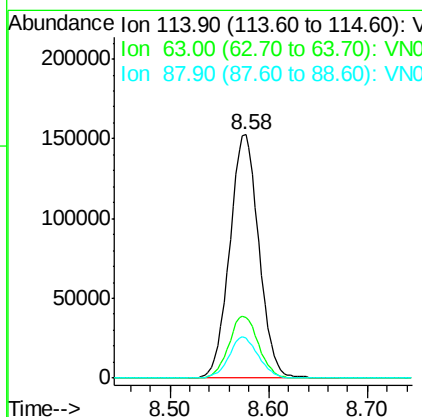
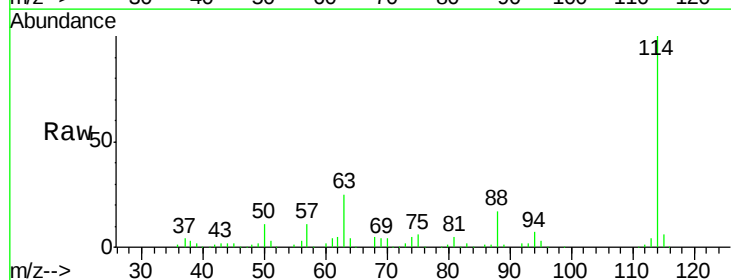
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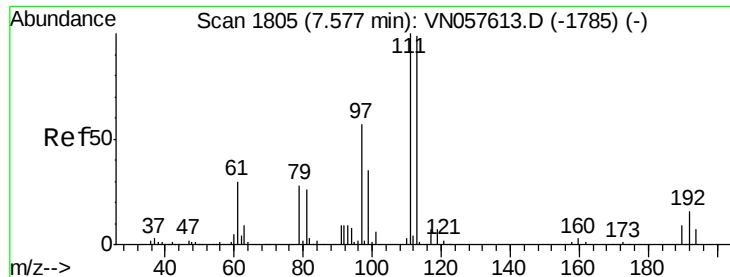
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 9/3/2019 11:52:19 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	314979		
63	25.0	0.0	49.0	
88	16.5	0.0	33.0	





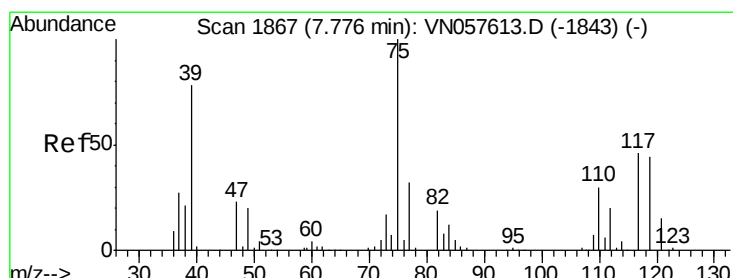
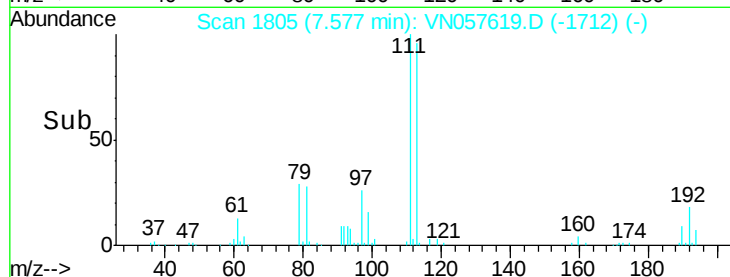
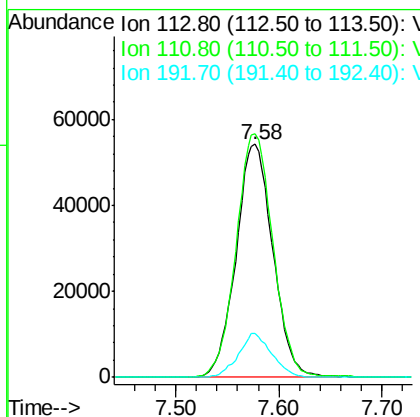
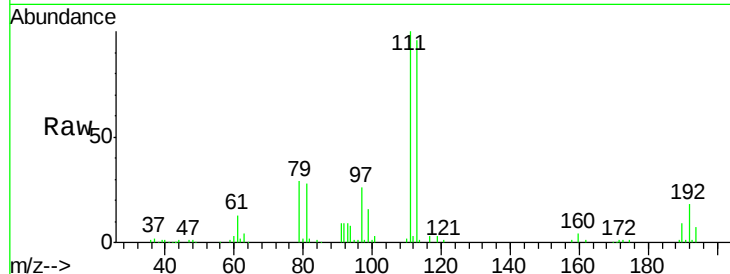
#35
 Dibromofluoromethane
 Concen: 48.958 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
 MSVOA_N
 ClientSampled :
 VN0901WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	104.3	81.3	121.9	
192	17.0	13.5	20.3	

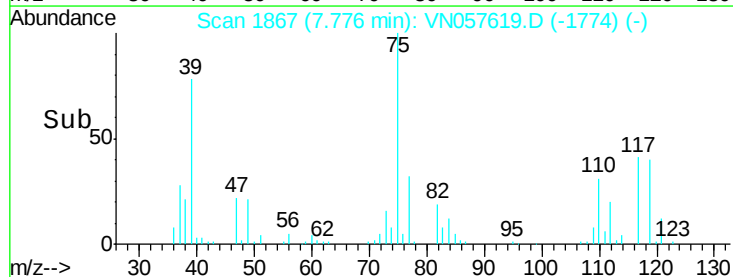
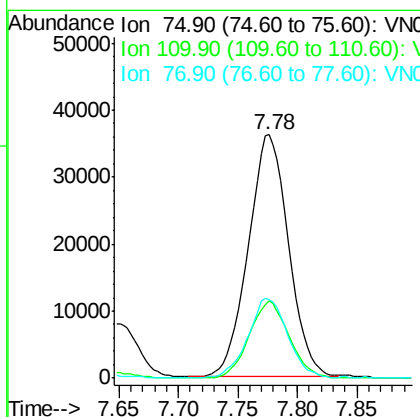
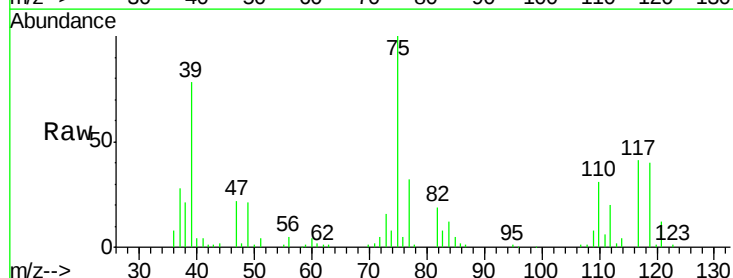
Manual Integrations
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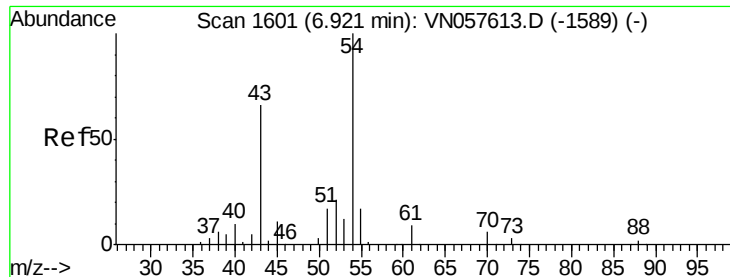
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 9/3/2019 11:52:19 AM



#36
 1,1-Dichloropropene
 Concen: 20.329 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	31.2	15.6	46.8	
77	32.5	24.9	37.3	





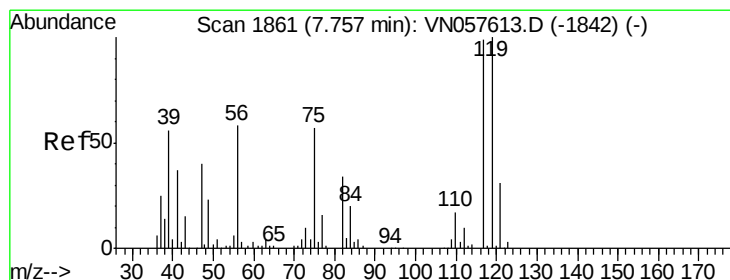
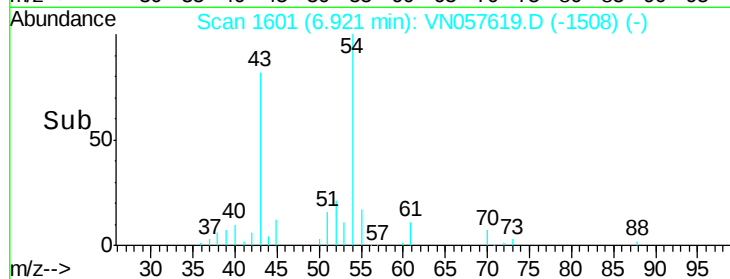
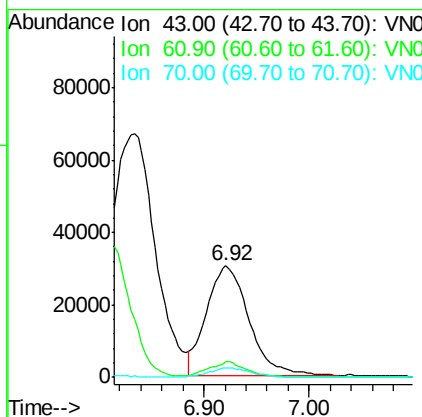
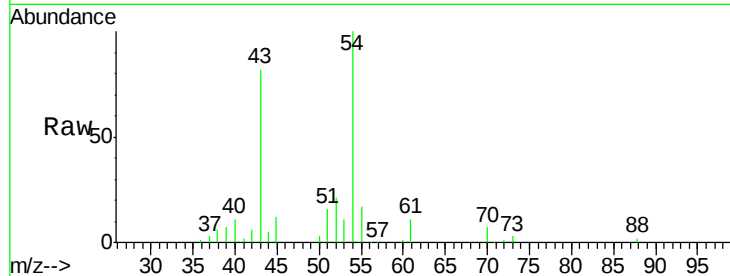
#37
Ethyl Acetate
Concen: 21.537 ug/l
RT: 6.92 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampled :
VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.2	10.1	15.1
70	8.5	6.8	10.2

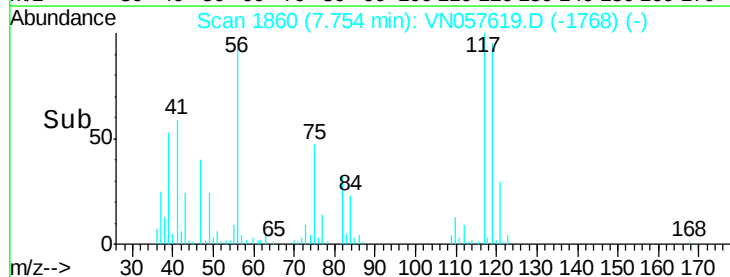
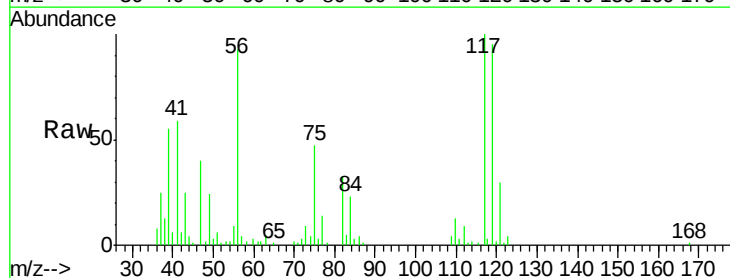
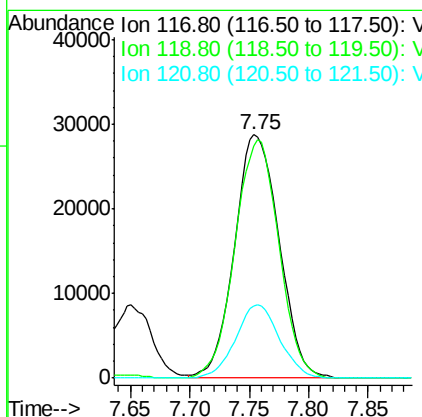
Manual Integrations
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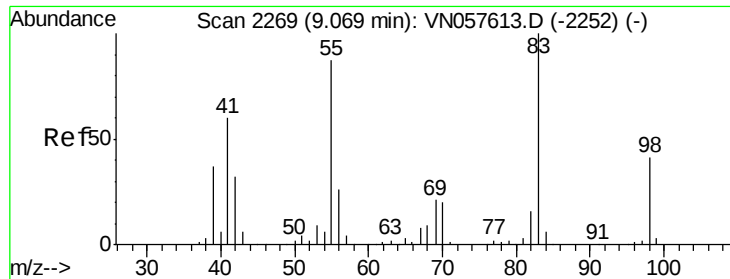
MMDadoda
9/3/2019 11:52:19 AM



#38
Carbon Tetrachloride
Concen: 19.995 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.2	80.6	120.8
121	29.7	25.1	37.7





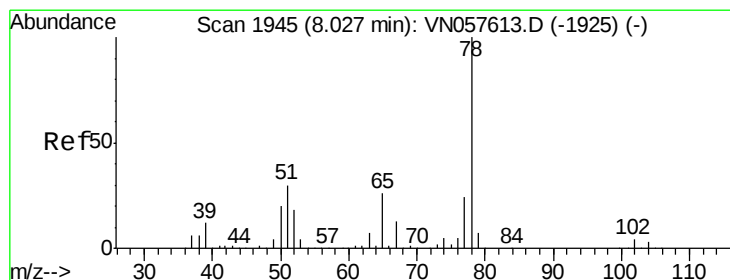
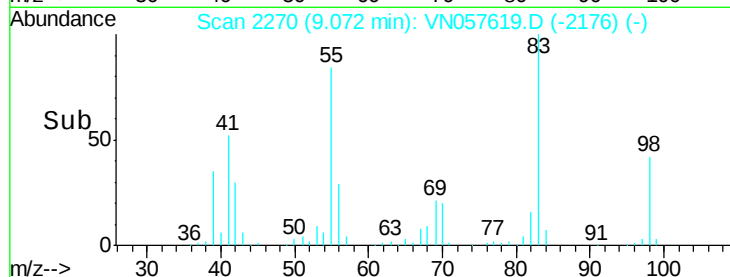
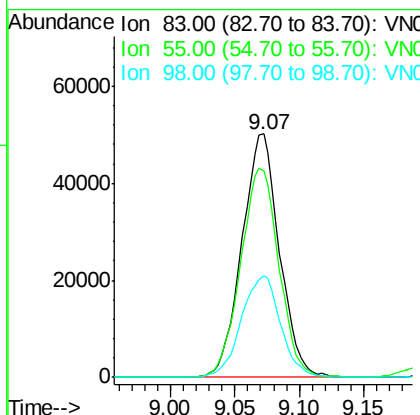
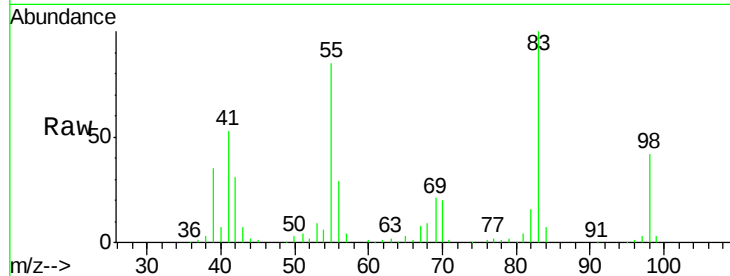
#39
Methvlcvclohexane
Concen: 20.593 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBSD01

Tot Ion	83	Resp	101602
Ion Ratio	Lower	Upper	
83	100		
55	84.6	69.8	104.8
98	41.5	32.7	49.1

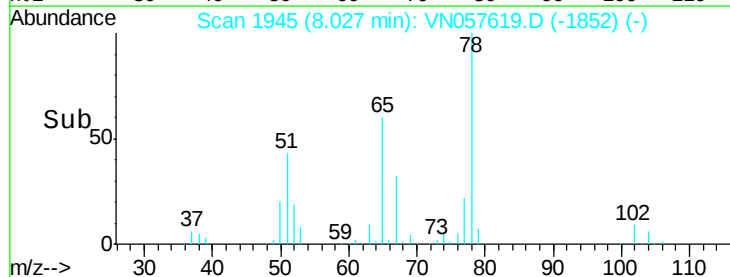
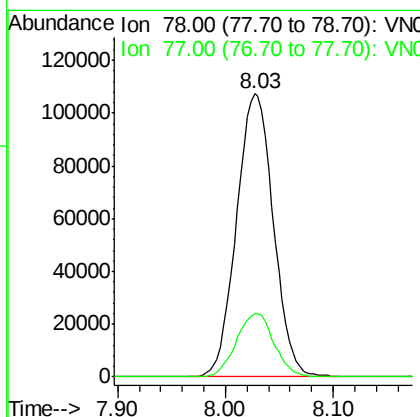
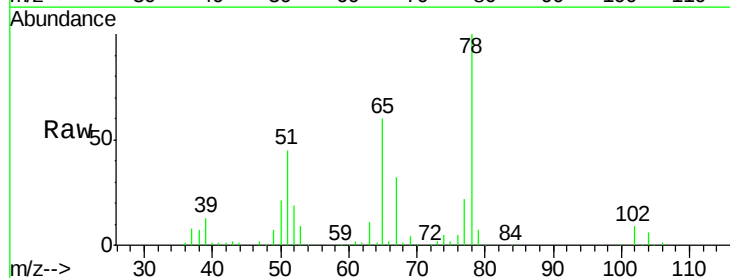
Manual Integrations
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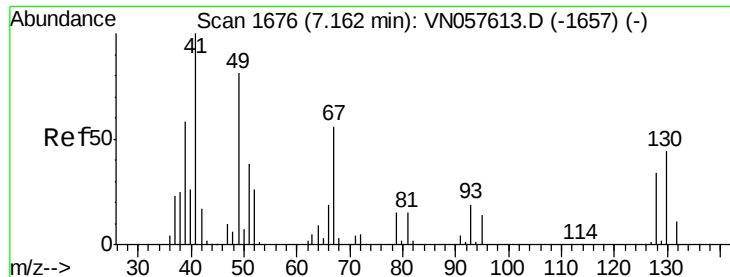
MMDadoda
9/3/2019 11:52:19 AM



#40
Benzene
Concen: 21.015 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	78	Resp	255455
Ion Ratio	Lower	Upper	
78	100		
77	22.3	19.1	28.7





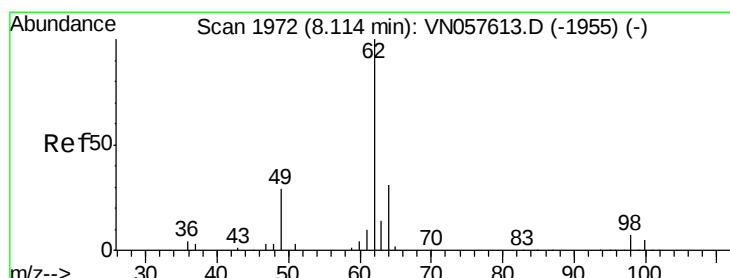
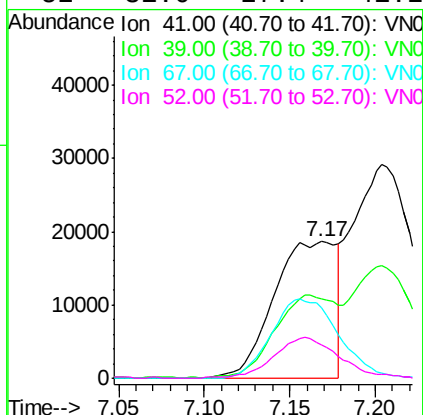
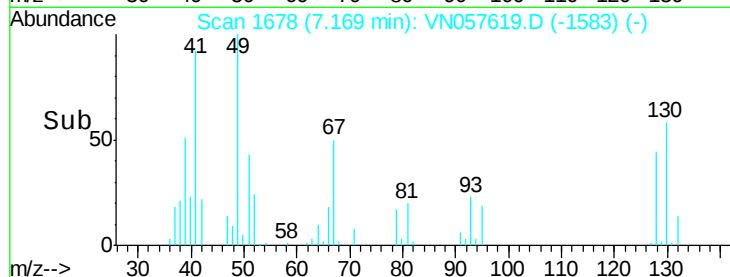
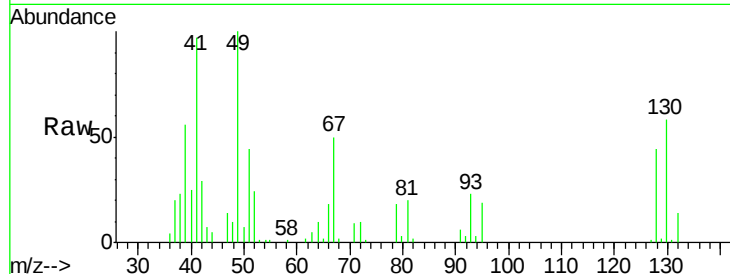
#41
Methacrylonitrile
Concen: 22.728 ug/l m
RT: 7.17 min Scan# 1678
Delta R.T. 0.01 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampled :
VN0901WBSD01

Tot Ion	41	Resp	47769
Ion	Ratio	Lower	Upper
41	100		
39	61.9	50.6	75.8
67	62.1	56.9	85.3
52	31.0	27.4	41.2

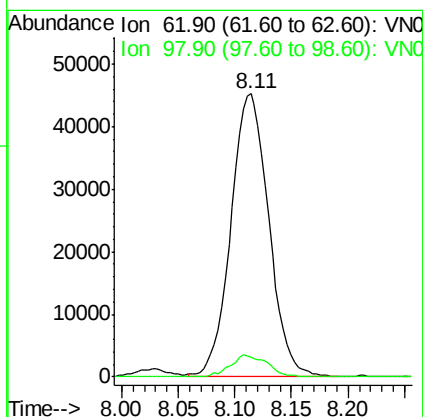
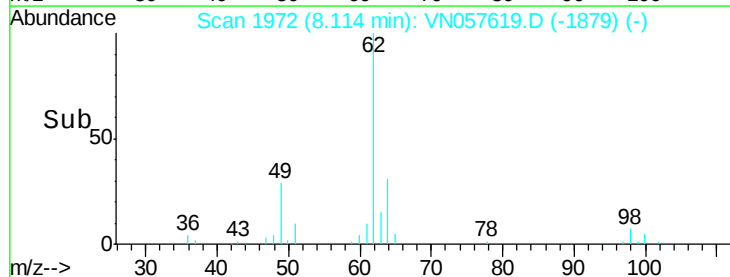
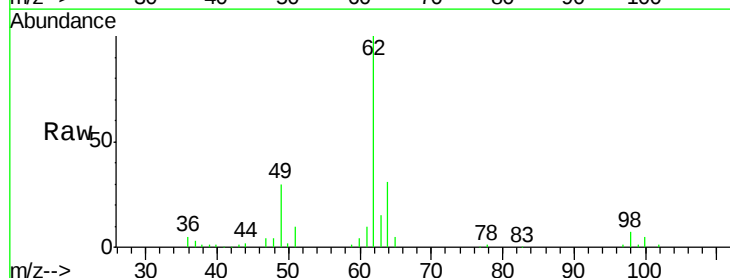
Manual Integrations
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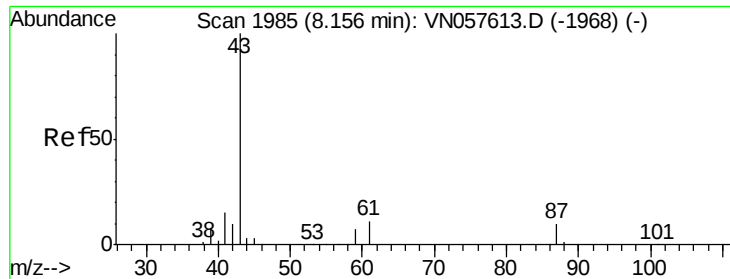
MMDadoda
9/3/2019 11:52:19 AM



#42
1,2-Dichloroethane
Concen: 21.356 ug/l
RT: 8.11 min Scan# 1972
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	62	Resp	105441
Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	14.0





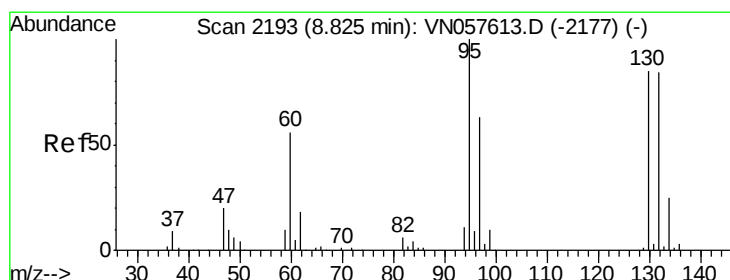
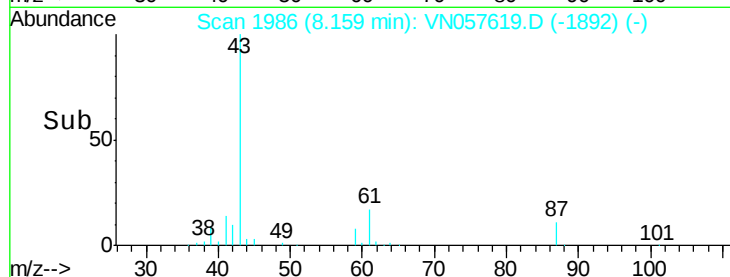
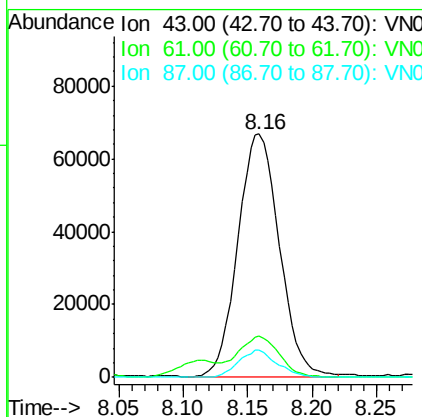
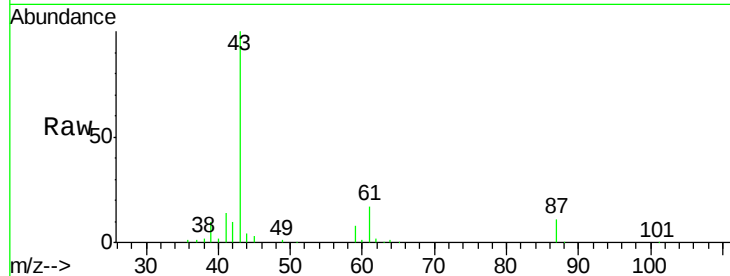
#43
Isopropyl Acetate
Concen: 20.795 ug/l
RT: 8.16 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.0	13.1	19.7
87	10.4	8.1	12.1

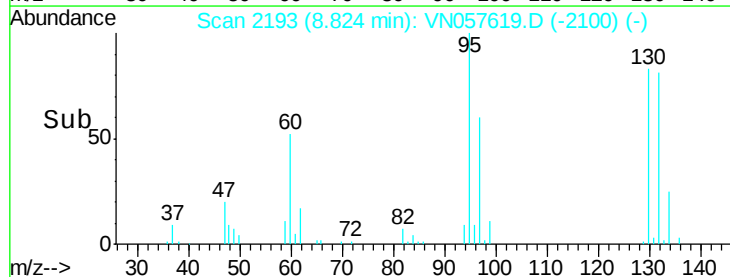
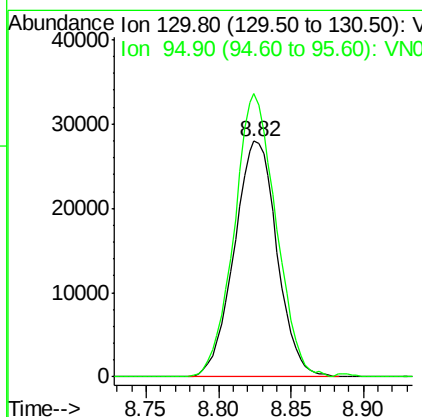
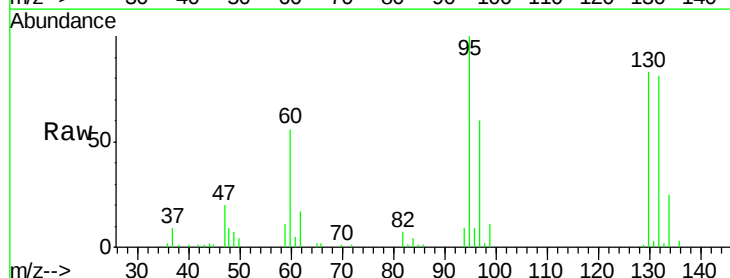
Manual Integrations
APPROVED

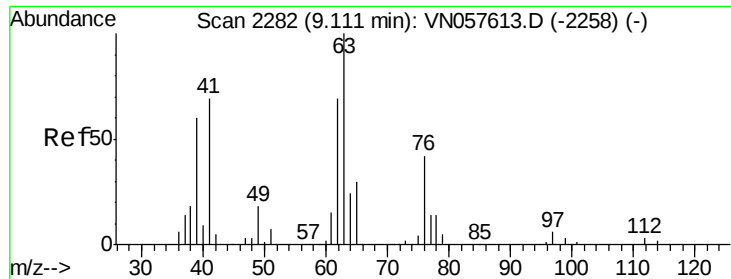
MMDadoda
9/3/2019 11:52:19 AM



#44
Trichloroethene
Concen: 20.784 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
130	100		
95	120.0	0.0	234.4





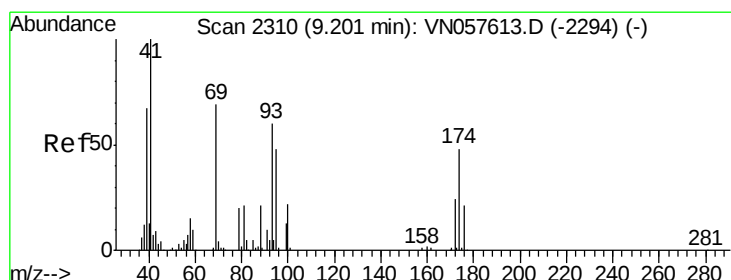
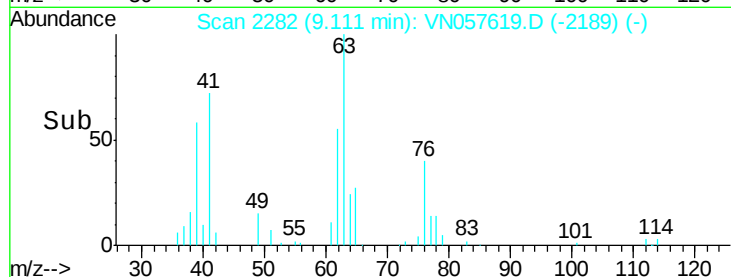
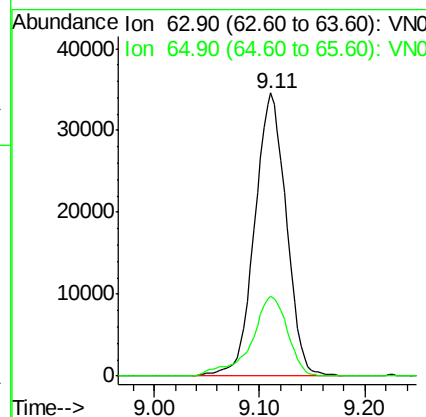
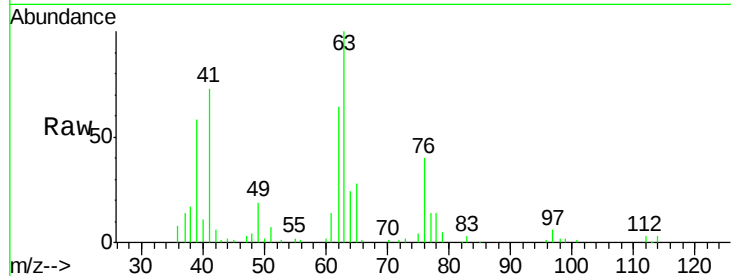
#45
 1,2-Dichloropropane
 Concen: 21.366 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	28.1	24.4	36.6

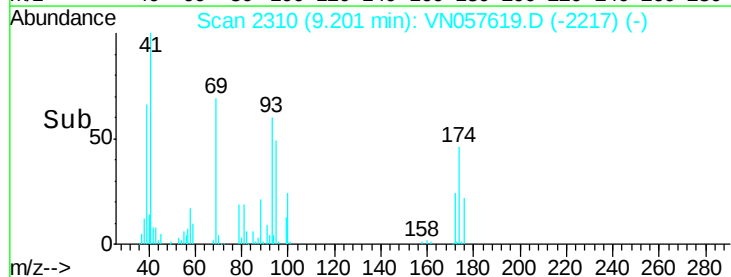
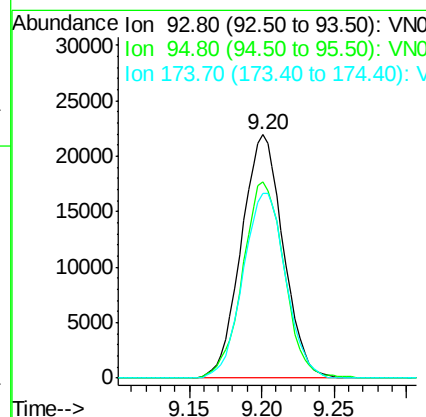
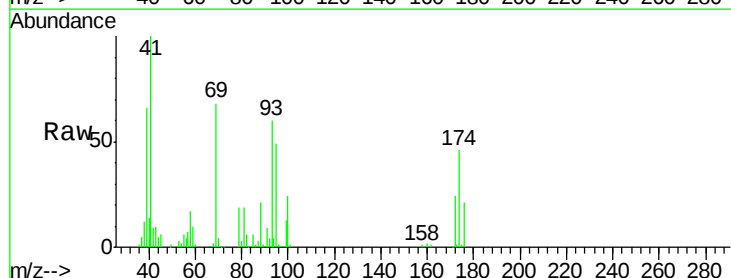
Manual Integrations
 APPROVED

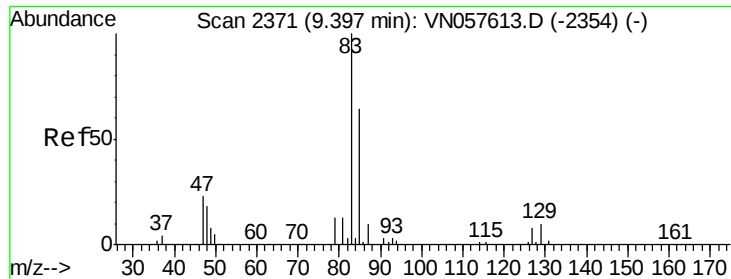
MMDadoda
 9/3/2019 11:52:19 AM



#46
 Dibromomethane
 Concen: 21.028 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
93	100		
95	80.0	65.8	98.6
174	77.3	64.2	96.2





#47

Bromodichloromethane

Concen: 19.568 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

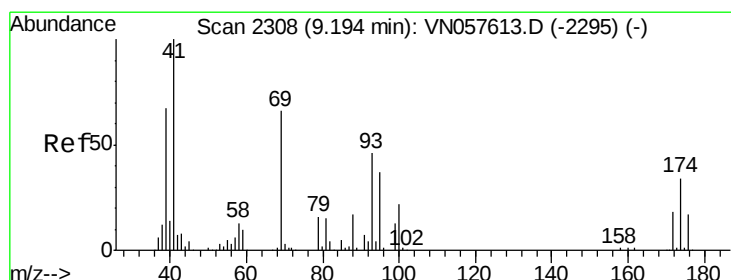
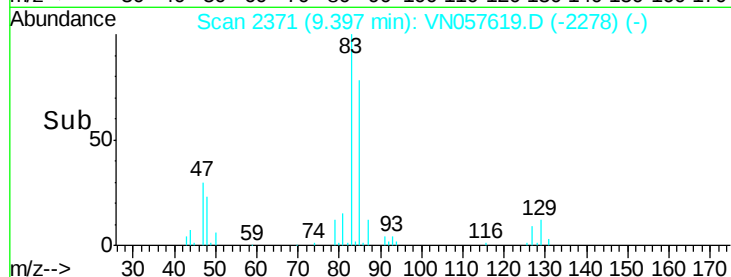
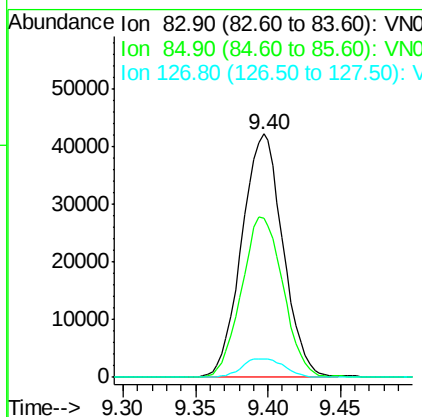
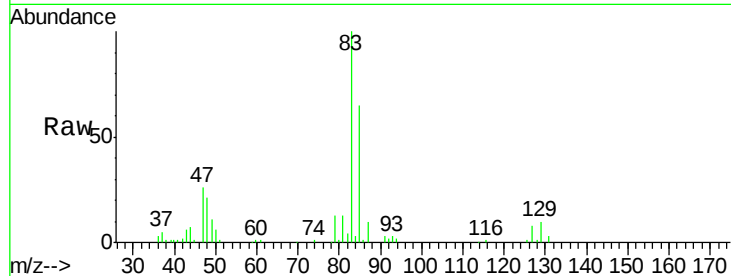
ClientSampleId :

VN0901WBSD01

Tot Ion:	83	Resp:	83346
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.4	77.0
127	7.5	6.1	9.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 21.261 ug/l

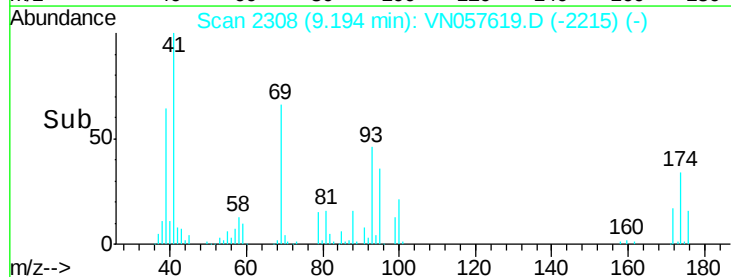
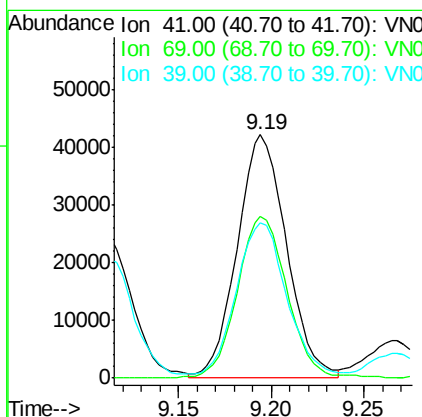
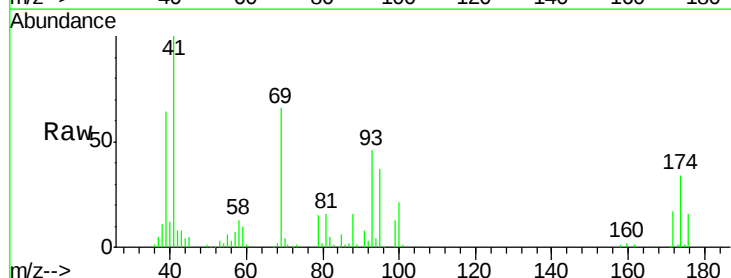
RT: 9.19 min Scan# 2308

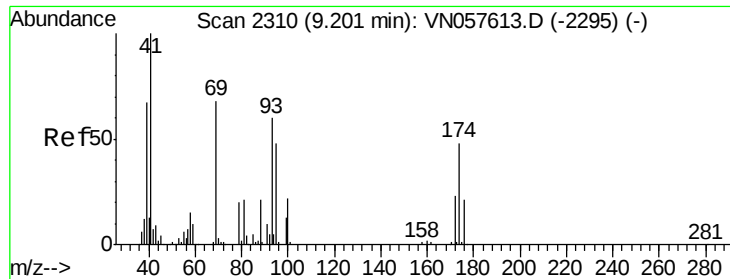
Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Tgt Ion:	41	Resp:	77686
Ion	Ratio	Lower	Upper
41	100		
69	67.7	55.1	82.7
39	65.9	55.4	83.2





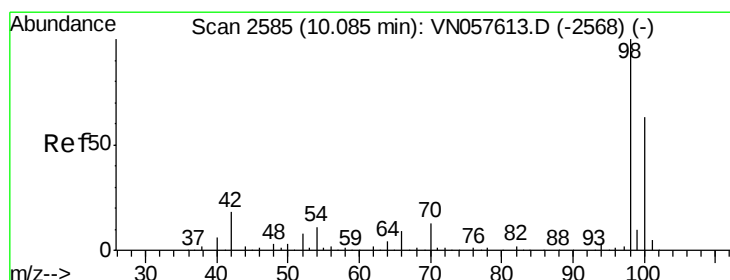
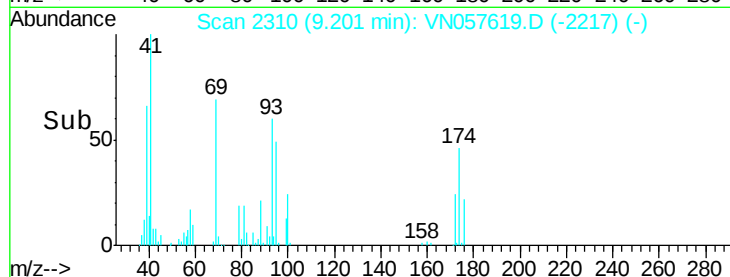
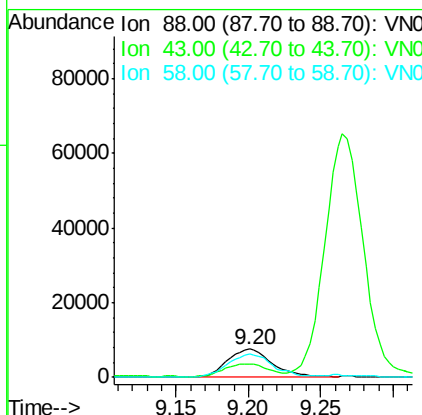
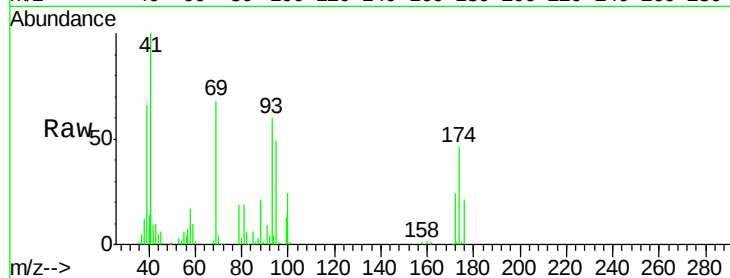
#49
1,4-Dioxane
Concen: 391.757 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBSD01

Tot Ion	88	Resp	16762
Ion	Ratio	Lower	Upper
88	100		
43	41.7	35.0	52.4
58	81.3	61.6	92.4

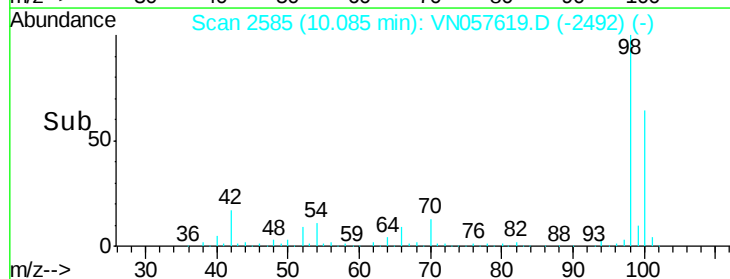
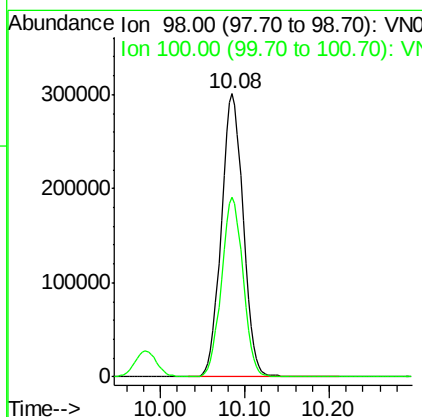
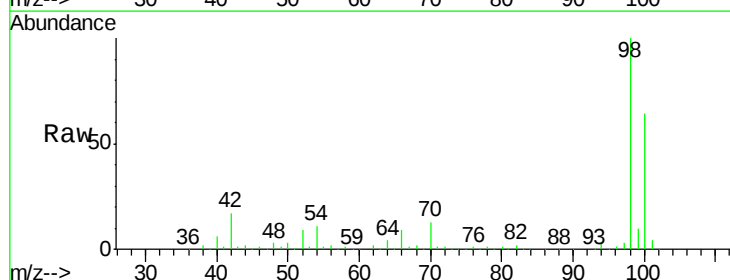
Manual Integrations
APPROVED

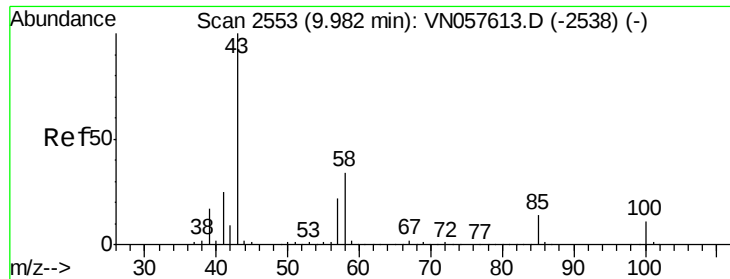
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#50
Toluene-d8
Concen: 51.441 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	98	Resp	543242
Ion	Ratio	Lower	Upper
98	100		
100	62.3	49.8	74.8





#51

4-Methyl-2-Pentanone

Concen: 108.937 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBSD01

Tot Ion: 43 Resp: 446842

Ion Ratio Lower Upper

43 100

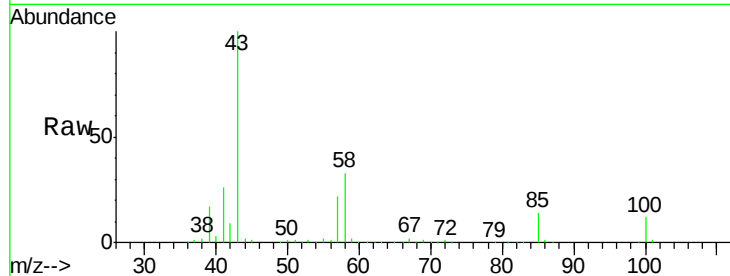
58 33.8 26.9 40.3

Manual Integrations

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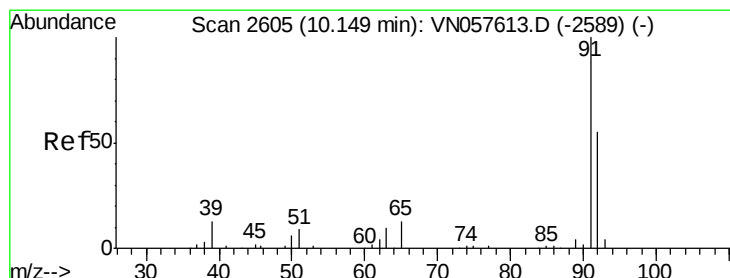
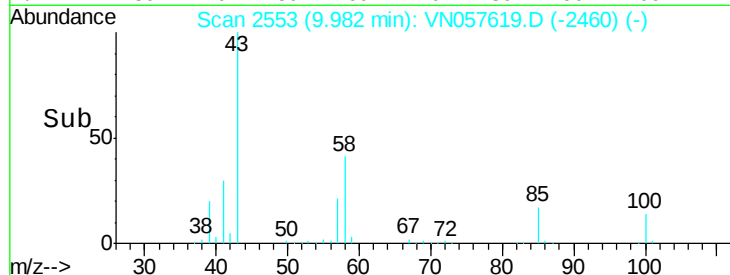
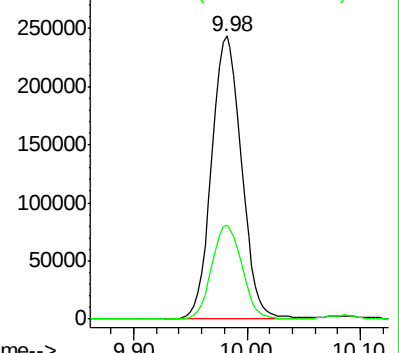
MMDadoda

9/3/2019 11:52:19 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 21.177 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN057619.D

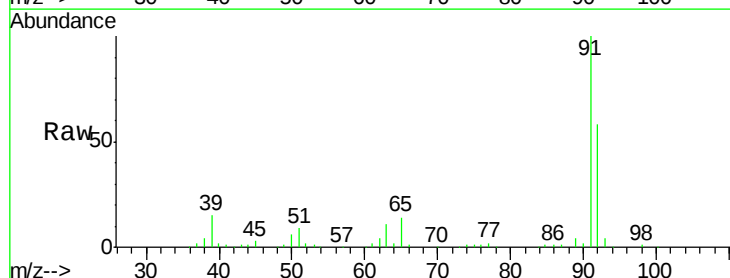
Acq: 31 Aug 2019 17:24

Tgt Ion: 92 Resp: 152147

Ion Ratio Lower Upper

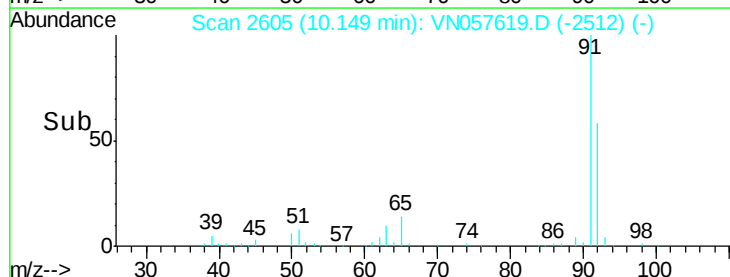
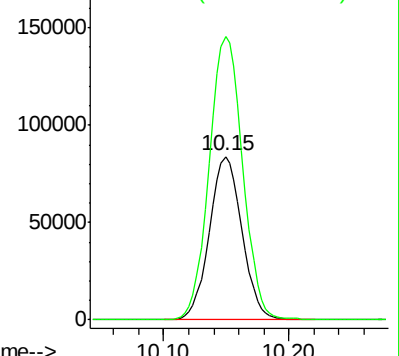
92 100

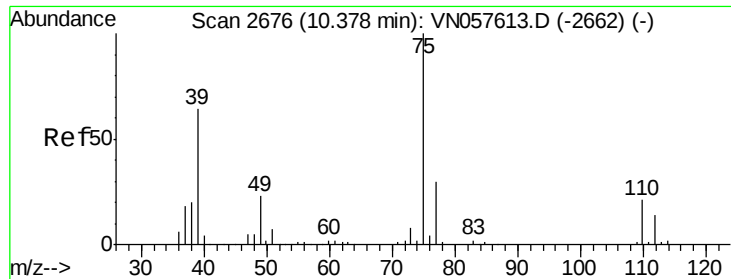
91 177.6 143.8 215.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





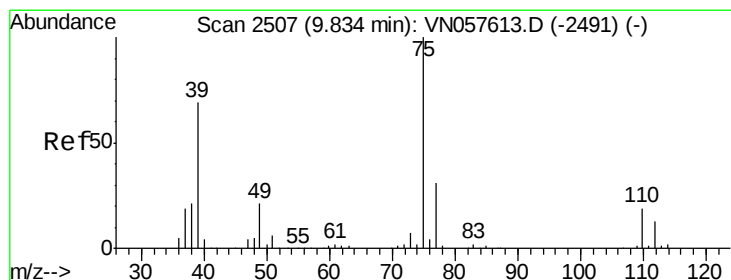
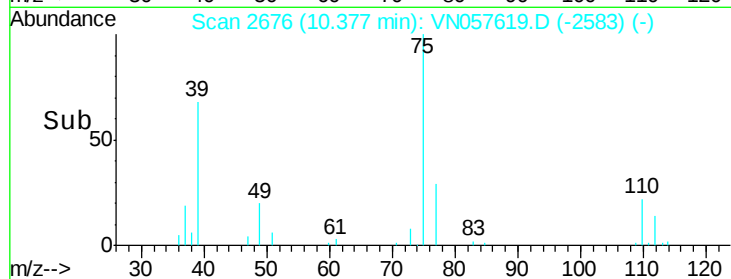
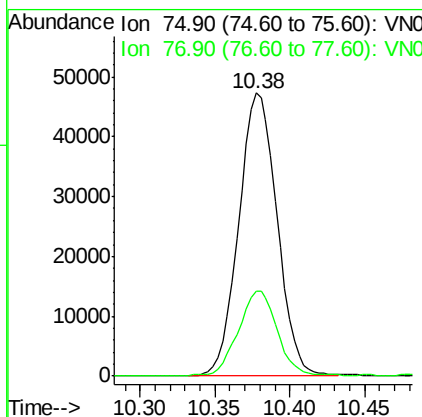
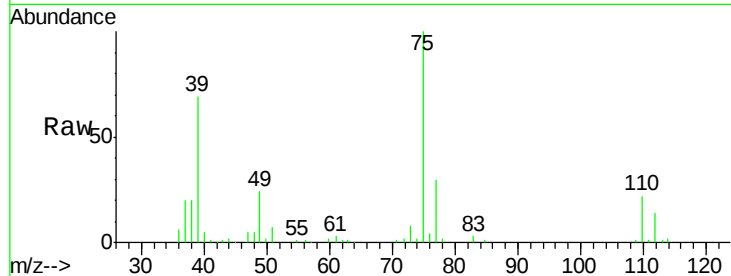
#53
t-1,3-Dichloropropene
Concen: 19.835 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	29.7	24.1	36.1

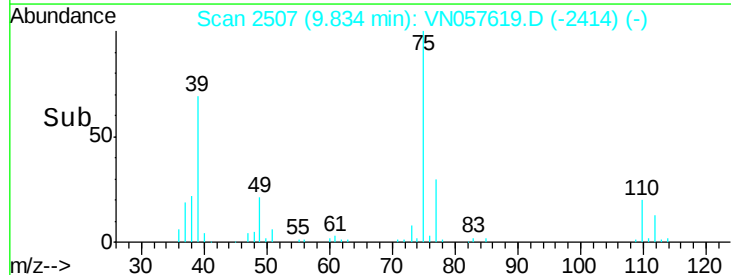
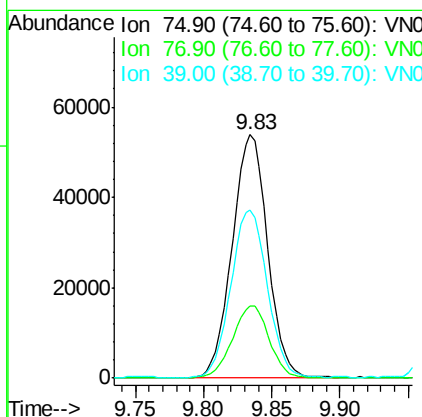
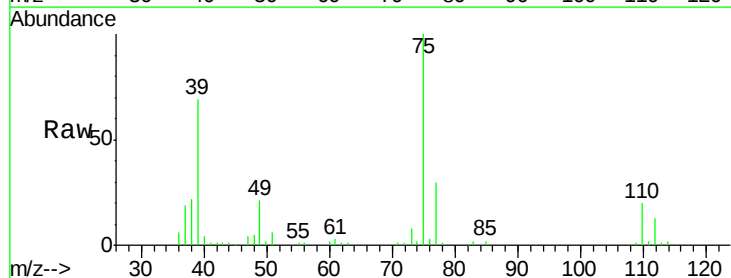
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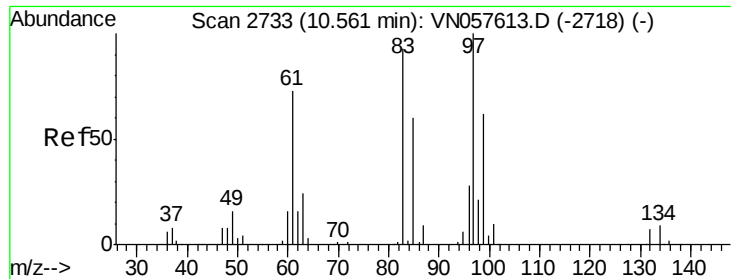
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 19.764 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
75	100		
77	29.8	24.8	37.2
39	68.5	55.0	82.4





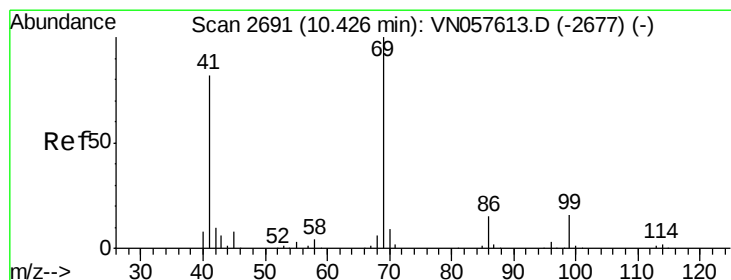
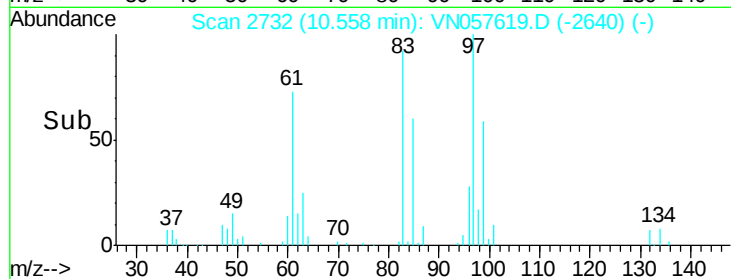
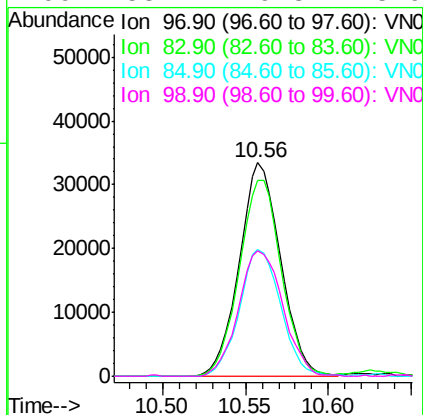
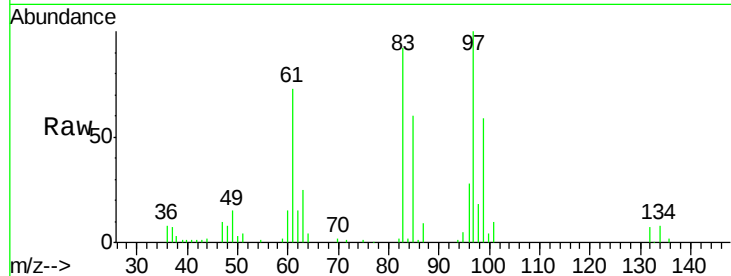
#55
 1,1,2-Trichloroethane
 Concen: 21.280 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
 MSVOA_N
 ClientSampled :
 VN0901WBSD01

Tot Ion:	97	Resp:	58007
Ion	Ratio	Lower	Upper
97	100		
83	91.6	74.2	111.2
85	59.6	47.8	71.8
99	58.7	49.3	73.9

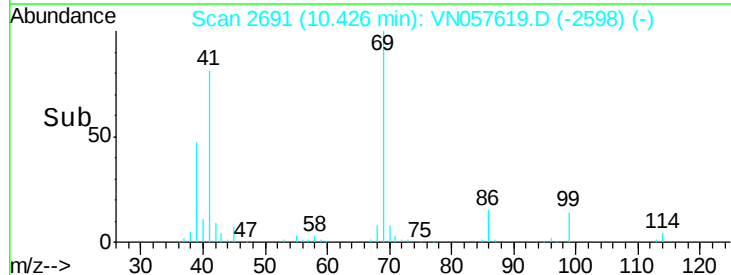
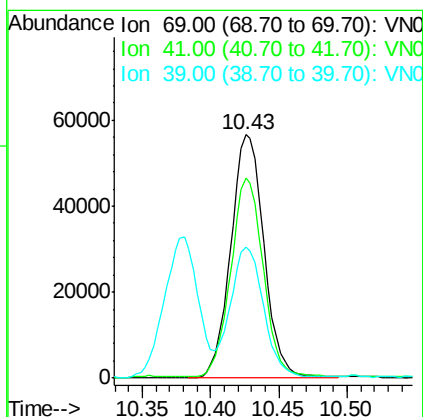
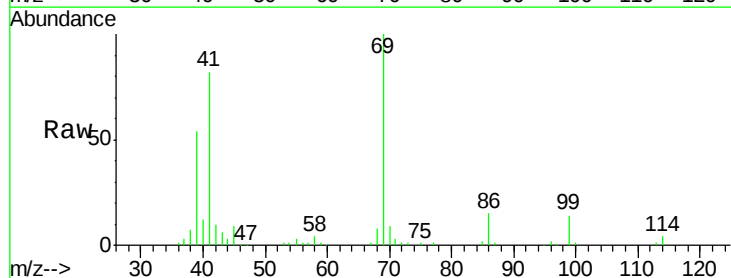
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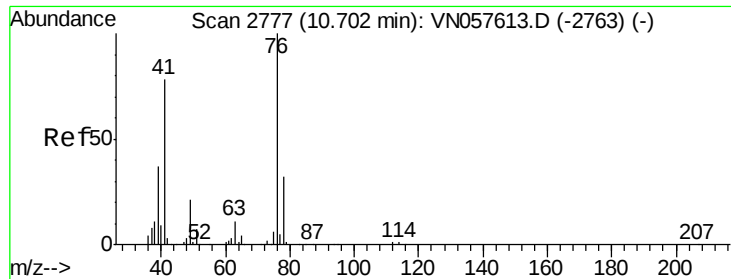
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#56
 Ethyl methacrylate
 Concen: 21.135 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Tgt Ion:	69	Resp:	96140
Ion	Ratio	Lower	Upper
69	100		
41	79.2	65.8	98.6
39	52.2	43.8	65.8





#57

1,3-Dichloropropane

Concen: 21.300 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBSD01

Tot Ion: 76 Resp: 106524

Ion Ratio Lower Upper

76 100

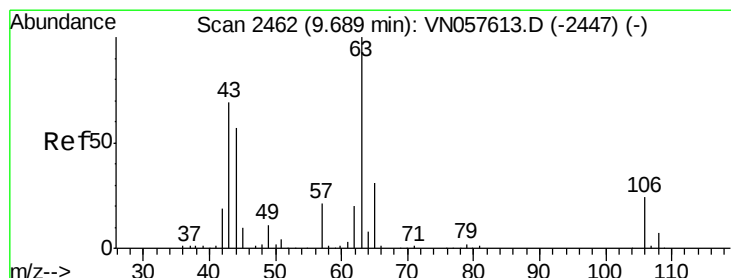
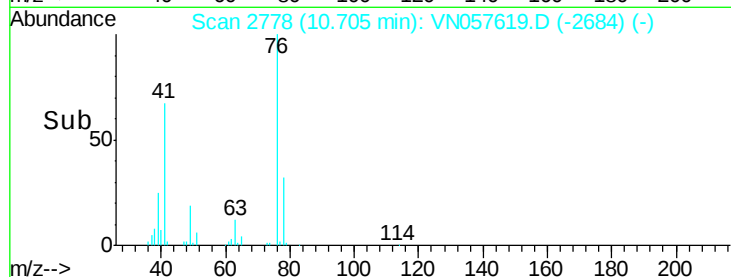
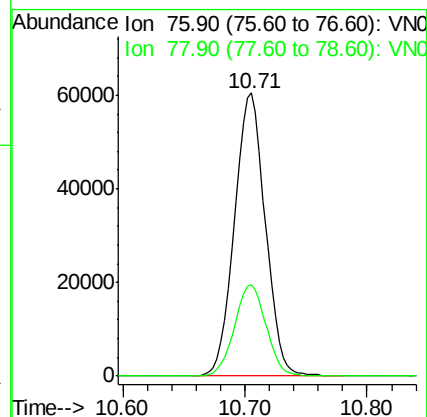
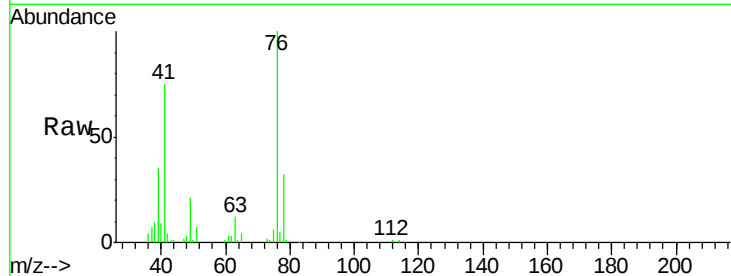
78 33.1 25.4 38.2

Manual Integrations

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9/3/2019 11:52:19 AM



#58

2-Chloroethyl Vinyl ether

Concen: 92.106 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VN057619.D

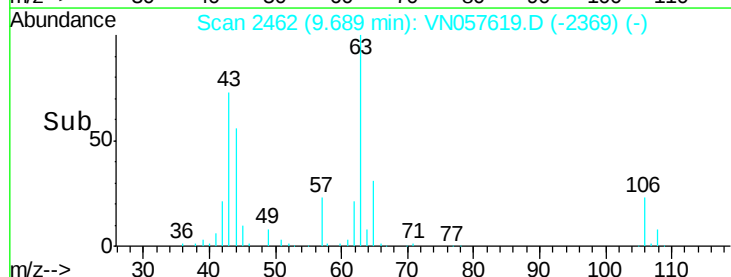
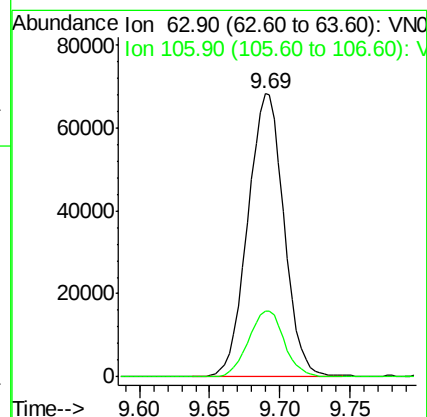
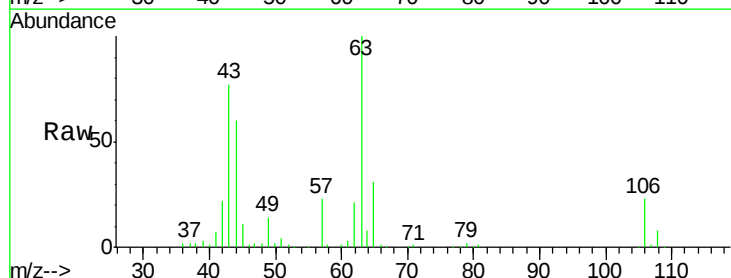
Acq: 31 Aug 2019 17:24

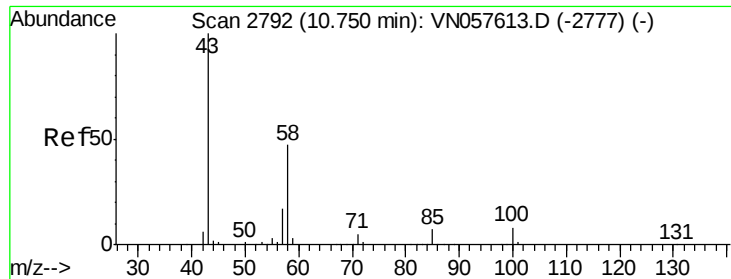
Tgt Ion: 63 Resp: 122580

Ion Ratio Lower Upper

63 100

106 23.1 18.3 27.5





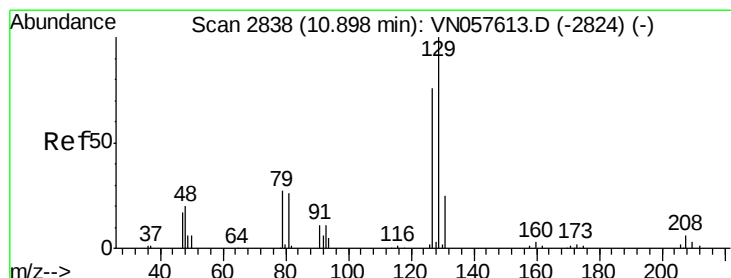
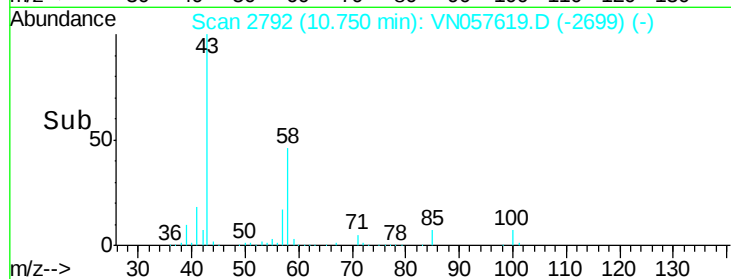
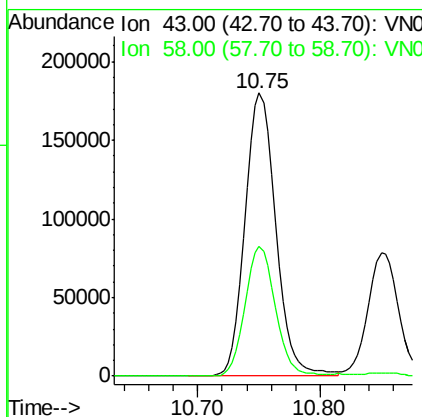
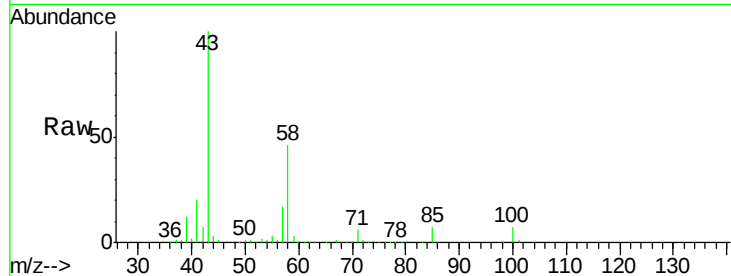
#59
2-Hexanone
Concen: 104.014 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampled :
VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	44.8	23.5	70.5

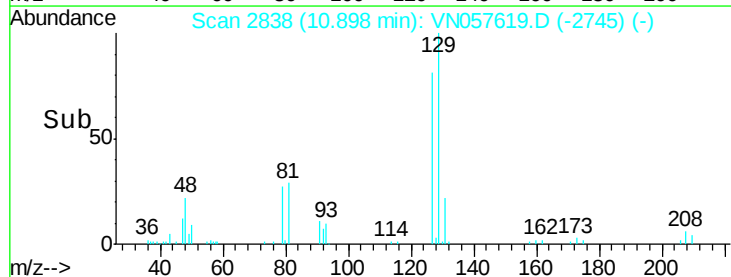
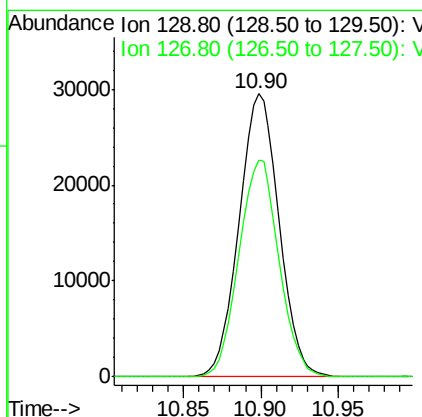
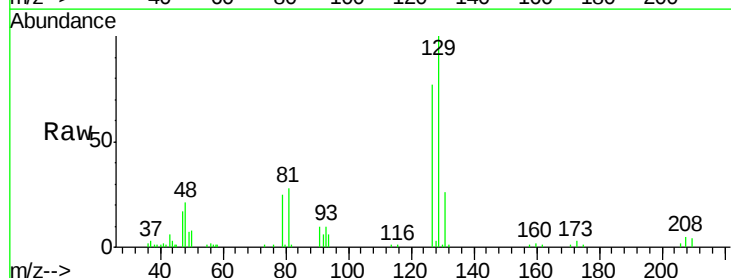
Manual Integrations
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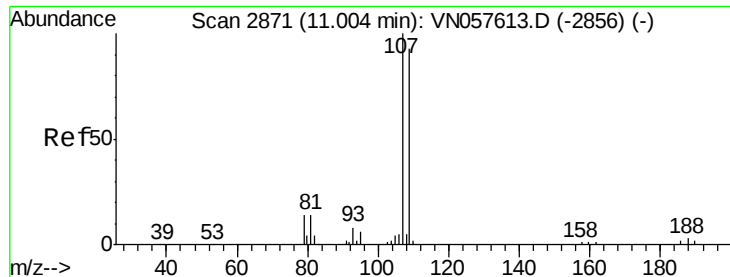
MMDadoda
9/3/2019 11:52:19 AM



#60
Dibromochloromethane
Concen: 20.051 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.6	38.3	114.8





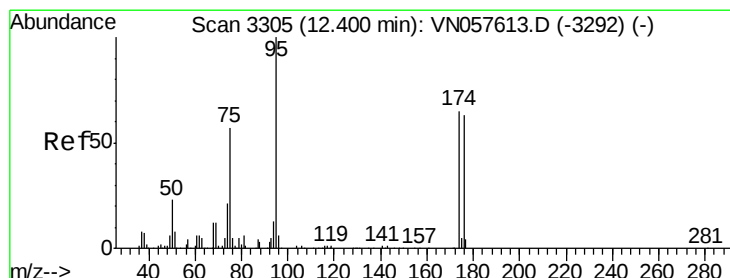
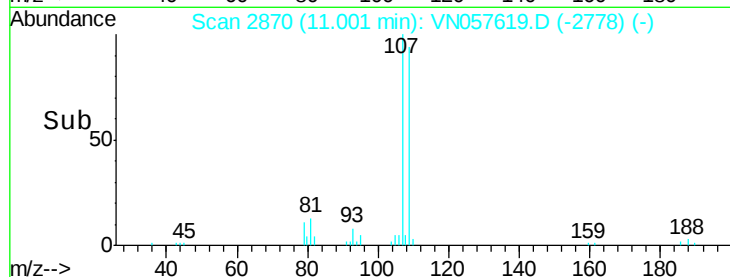
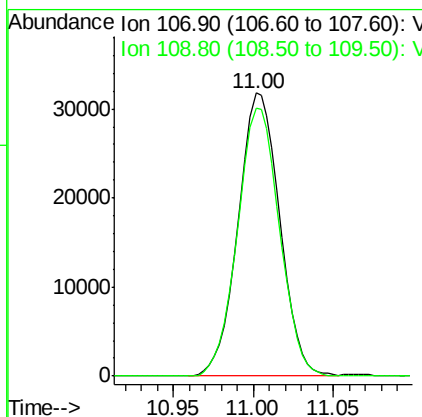
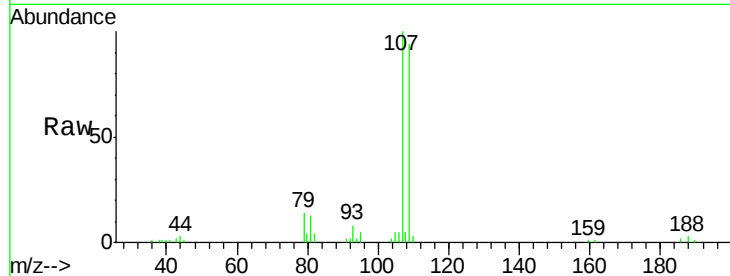
#61
 1,2-Dibromoethane
 Concen: 20.504 ug/l
 RT: 11.00 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.6	75.0	112.4

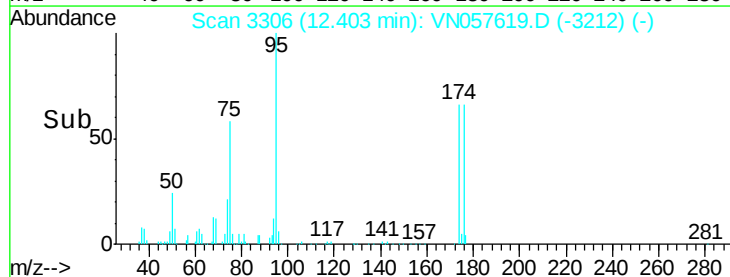
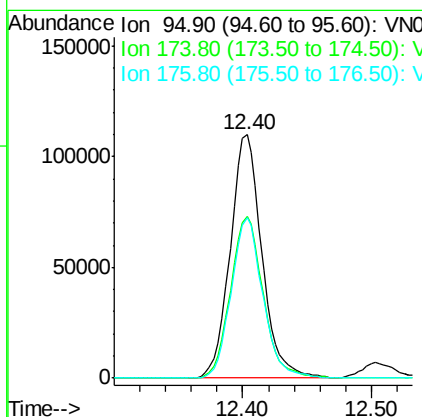
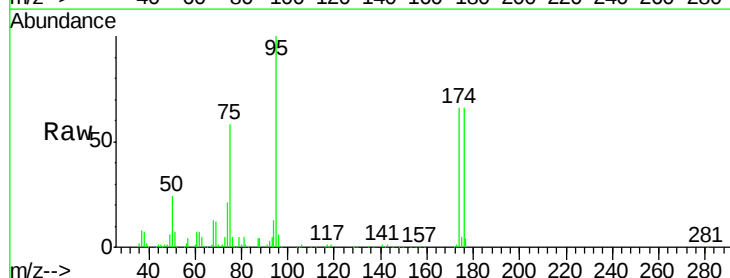
Manual Integrations
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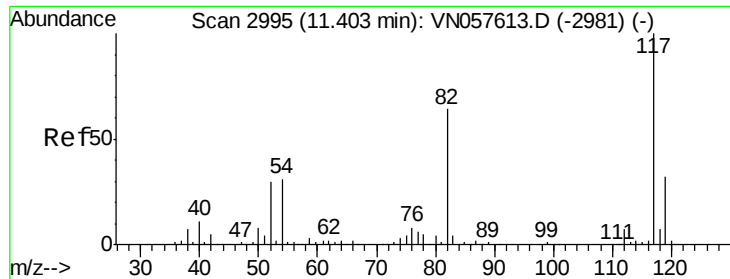
MMDadoda
 9/3/2019 11:52:19 AM



#62
 4-Bromofluorobenzene
 Concen: 46.733 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
95	100		
174	68.4	0.0	134.8
176	65.9	0.0	131.6





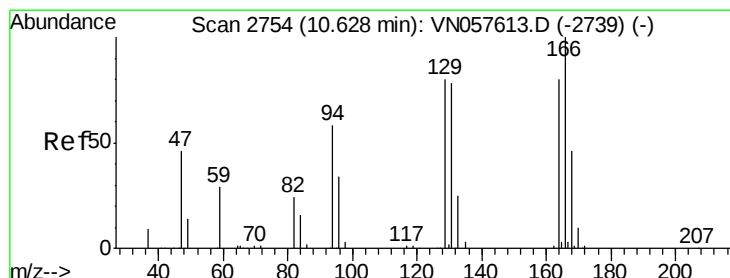
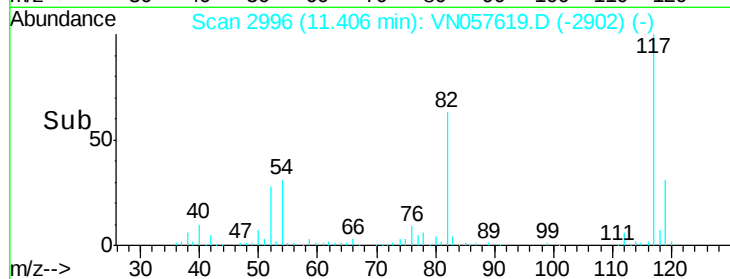
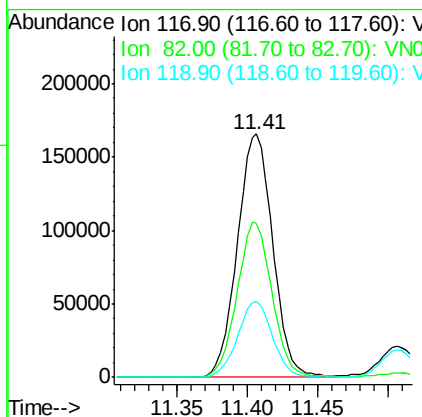
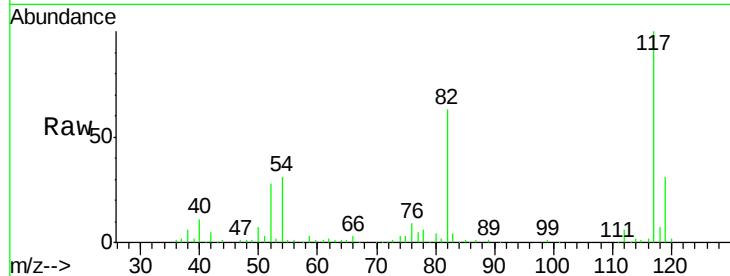
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.5	51.6	77.4
119	31.3	25.8	38.6

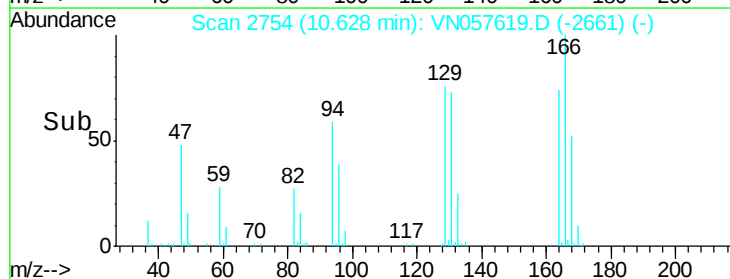
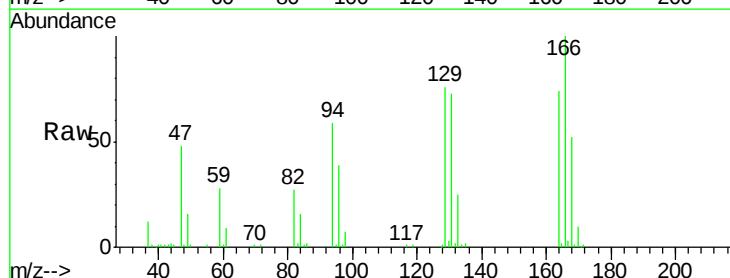
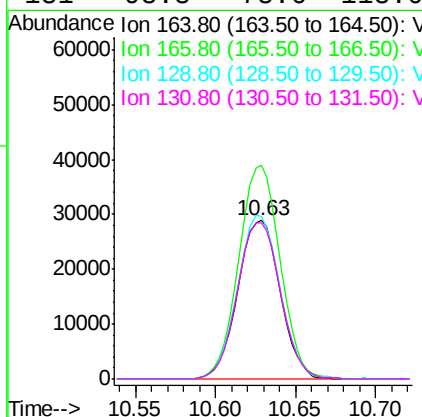
Manual Integrations
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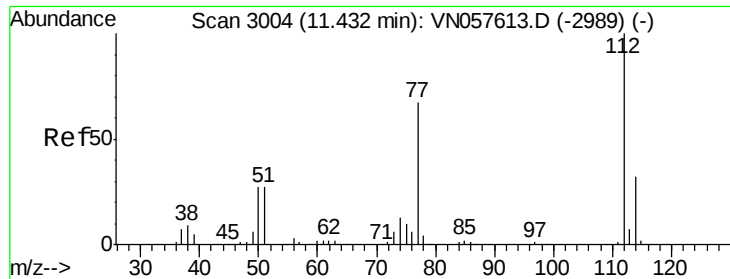
MMDadoda
9/3/2019 11:52:19 AM



#64
Tetrachloroethene
Concen: 20.607 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	134.8	100.6	151.0
129	102.3	80.4	120.6
131	98.8	78.6	118.0





#65

Chlorobenzene

Concen: 20.897 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

ClientSampled :

VN0901WBSD01

Tot Ion:112 Resp: 153113

Ion Ratio Lower Upper

112 100

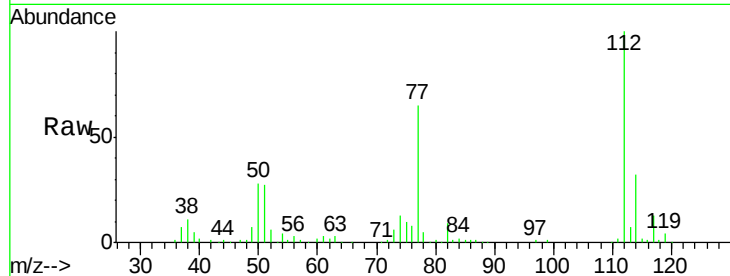
114 32.1 25.3 37.9

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

100000

80000

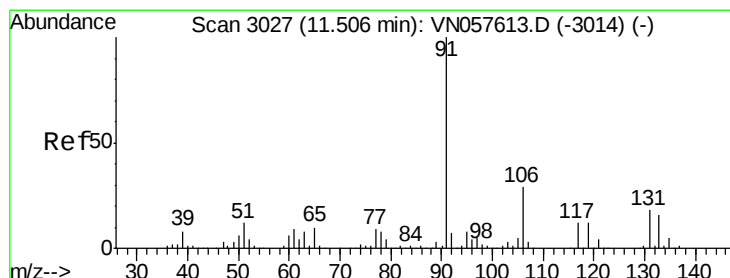
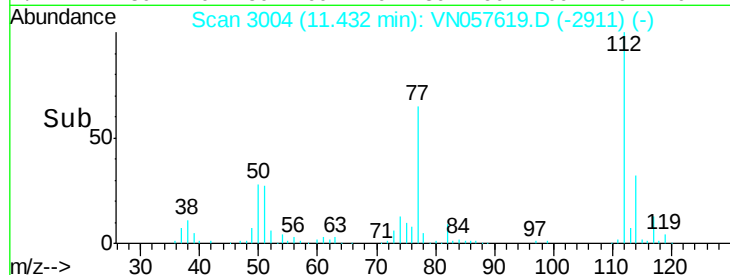
60000

40000

20000

0

Time--> 11.35 11.40 11.45 11.50



#66

1,1,1,2-Tetrachloroethane

Concen: 20.165 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

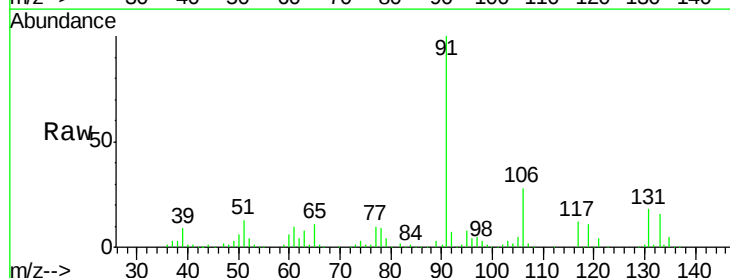
Tgt Ion:131 Resp: 51531

Ion Ratio Lower Upper

131 100

133 95.2 47.8 143.4

119 62.8 33.9 101.6



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

11.51

40000

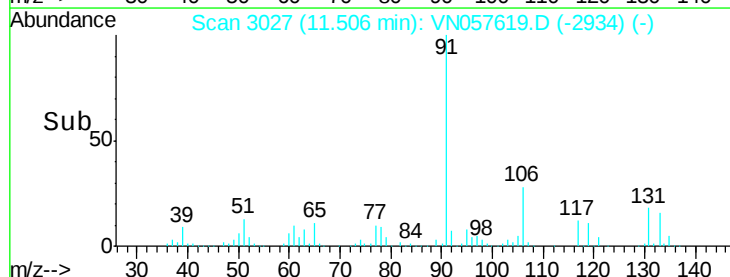
30000

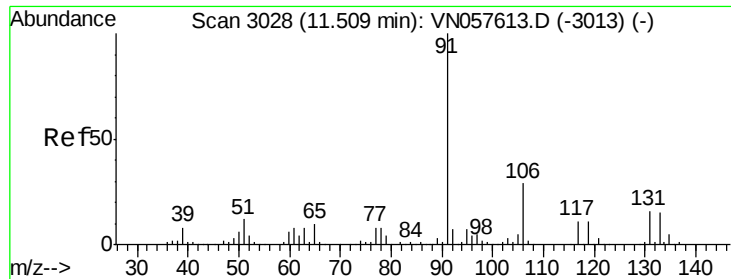
20000

10000

0

Time--> 11.45 11.50 11.55





#67

Ethyl Benzene

Concen: 21.219 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

ClientSampled :

VN0901WBSD01

Tot Ion: 91 Resp: 302085

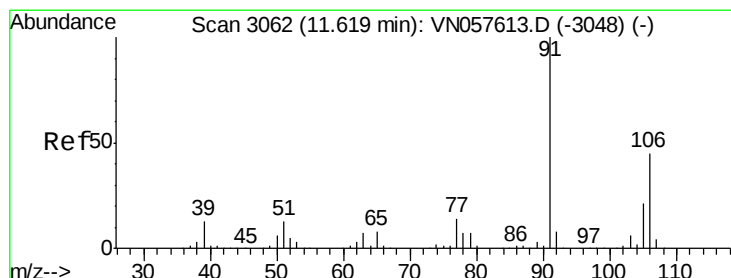
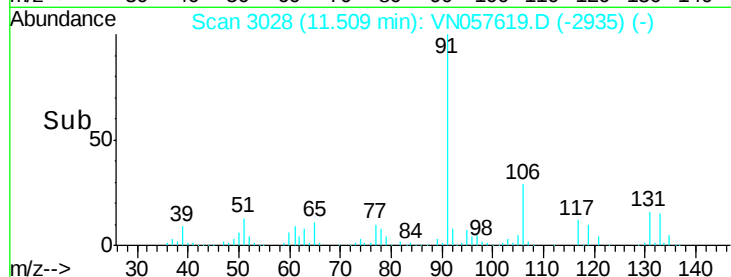
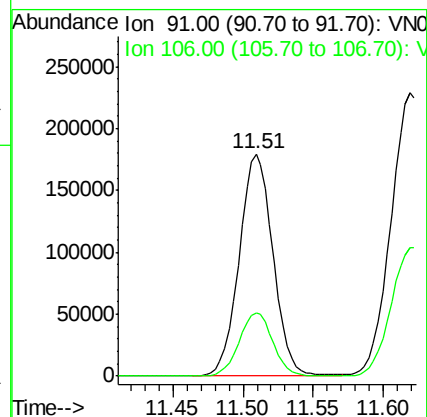
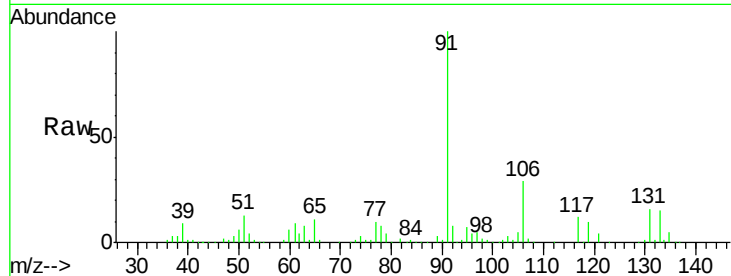
Ion Ratio Lower Upper

91 100

106 28.7 22.9 34.3

Manual Integrations
APPROVED

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9/3/2019 11:52:19 AM



#68

m/p-Xylenes

Concen: 41.615 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN057619.D

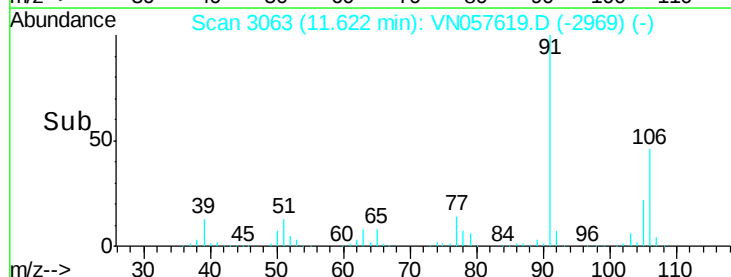
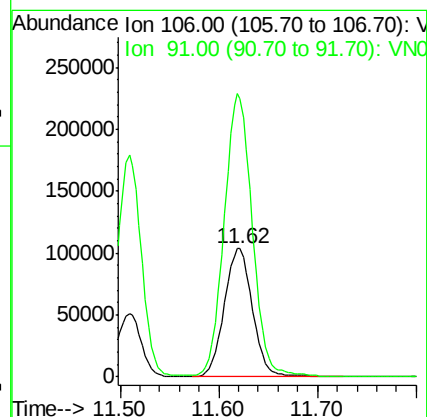
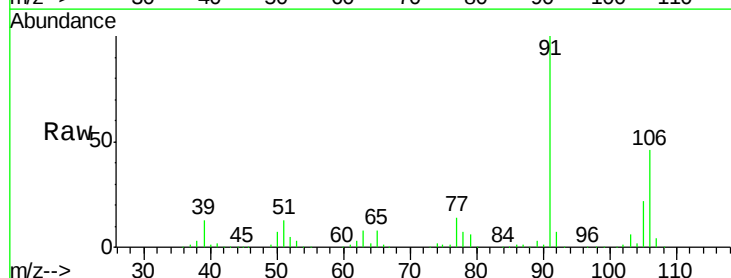
Acq: 31 Aug 2019 17:24

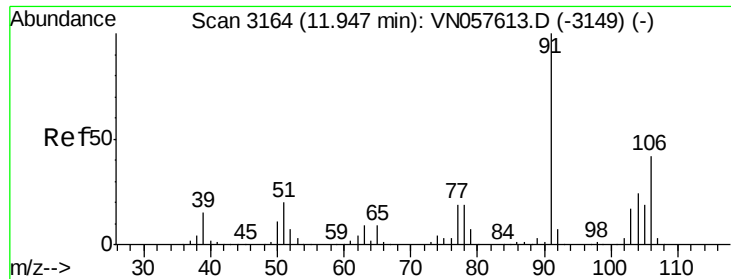
Tgt Ion: 106 Resp: 208717

Ion Ratio Lower Upper

106 100

91 219.1 176.2 264.2





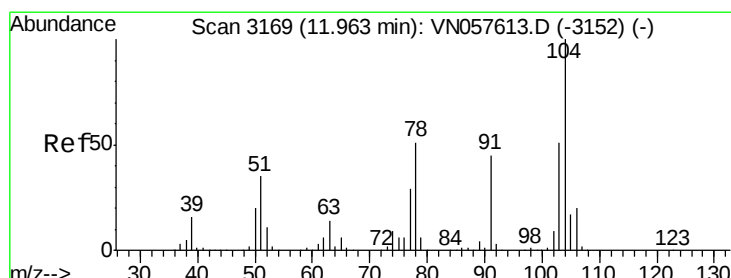
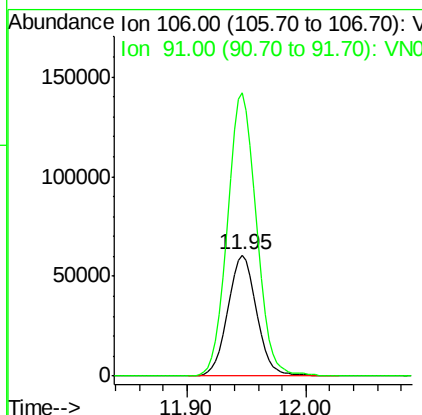
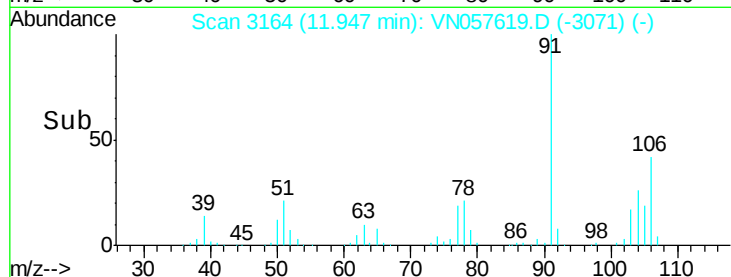
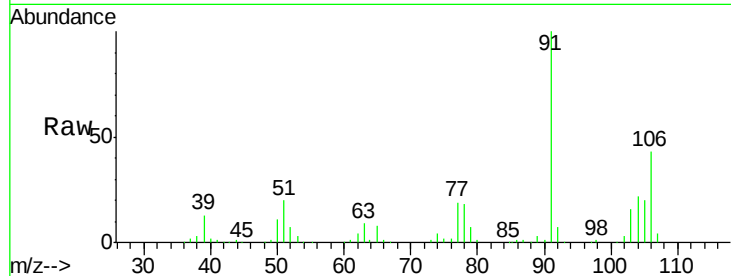
#69
o-Xylene
Concen: 21.065 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBSD01

Tot Ion:106 Resp: 102389
Ion Ratio Lower Upper
106 100
91 234.5 117.3 351.8

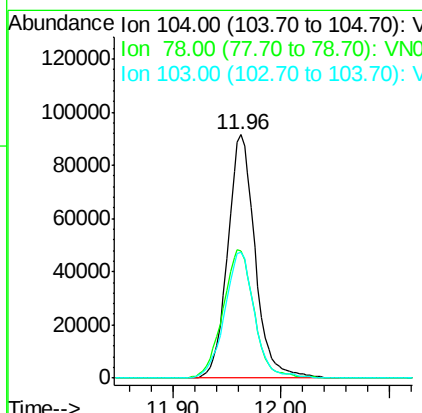
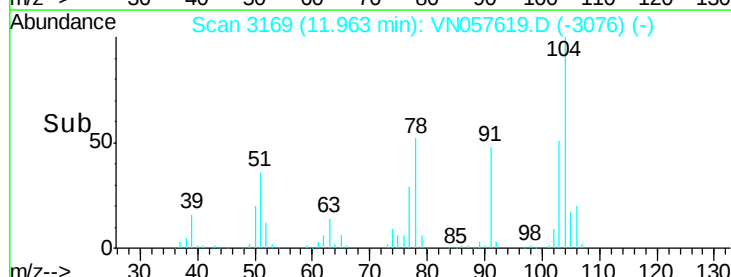
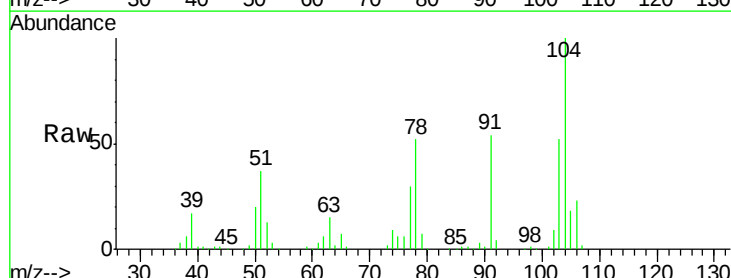
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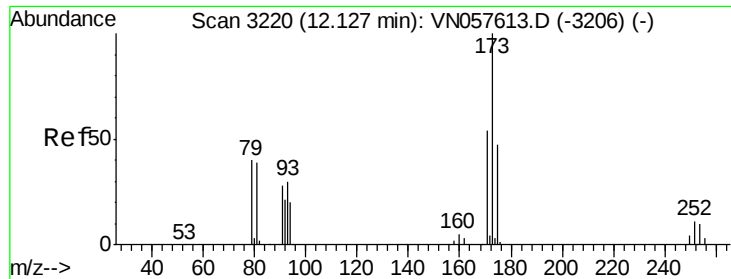
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#70
Styrene
Concen: 20.207 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion:104 Resp: 162567
Ion Ratio Lower Upper
104 100
78 59.8 46.6 70.0
103 56.2 44.7 67.1





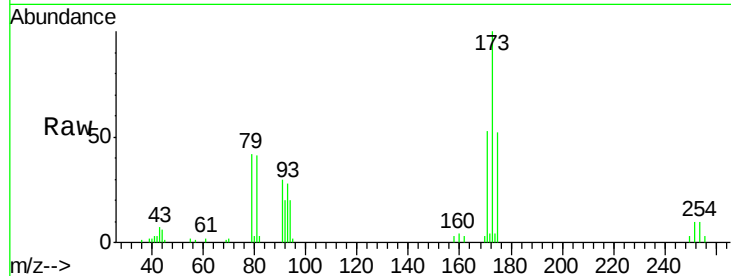
#71
Bromoform
Concen: 19.796 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBSD01

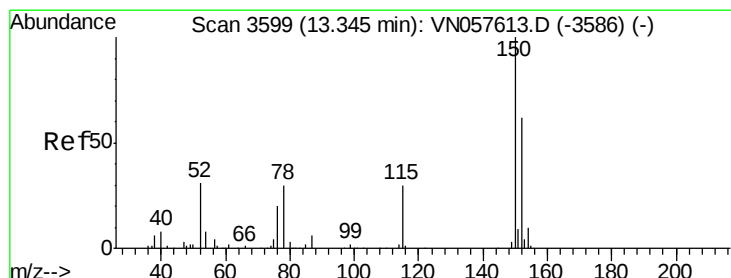
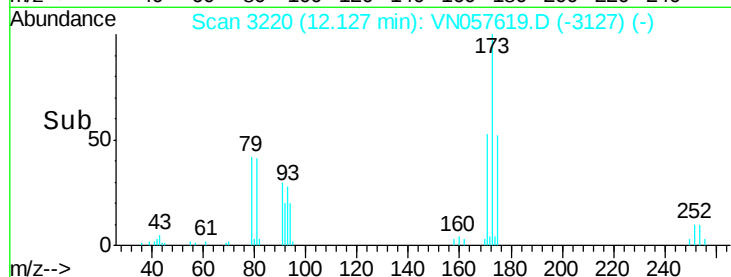
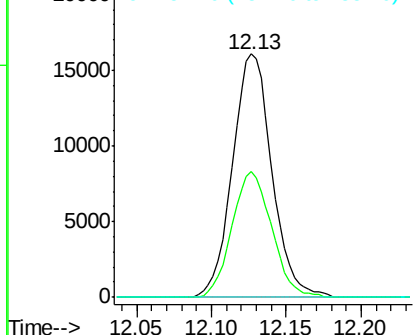
Tot Ion	Ratio	Lower	Upper
173	100		
175	51.9	24.4	73.4
254	0.0	0.0	0.0

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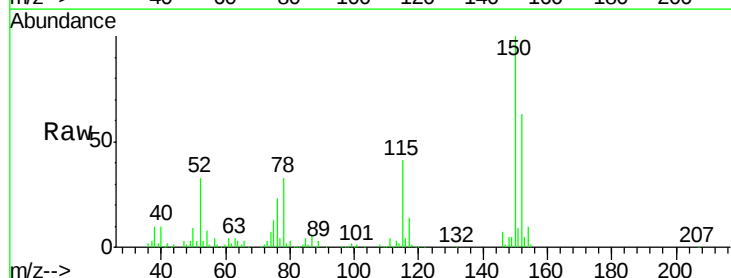


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

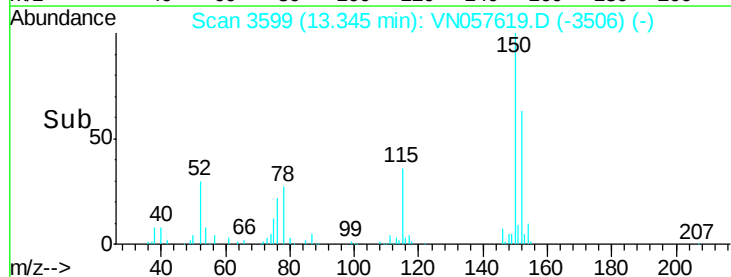
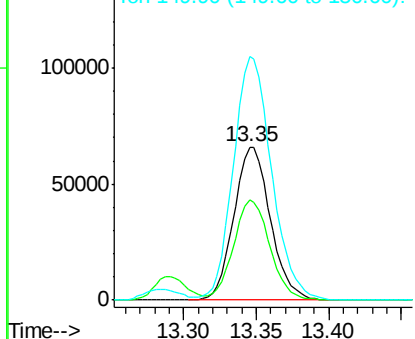


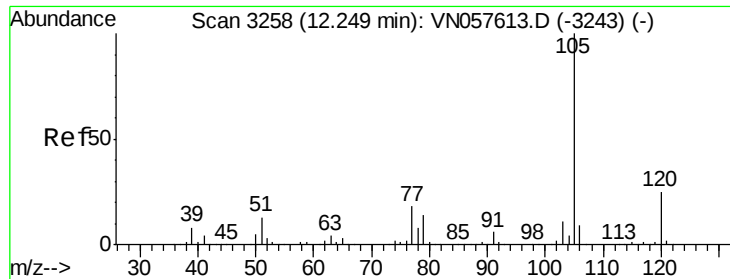
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.2	33.2	99.6
150	167.3	0.0	365.2



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: 23.696 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

ClientSampled :

VN0901WBSD01

Tot Ion: 105 Resp: 276212

Ion Ratio Lower Upper

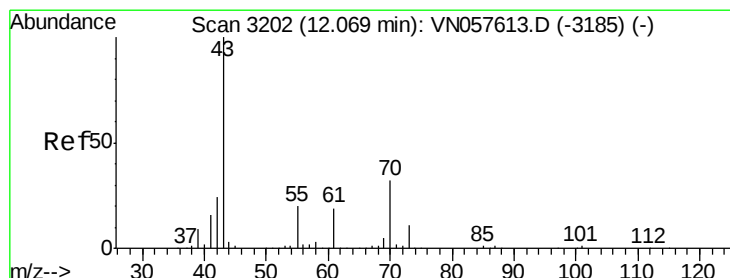
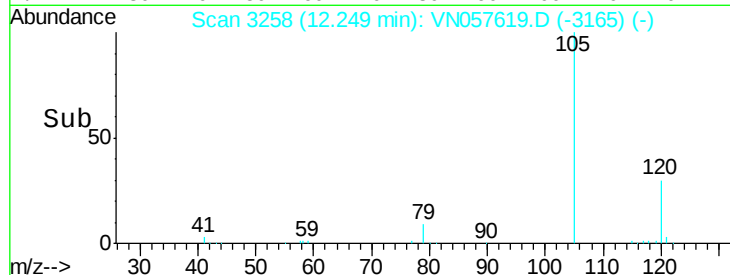
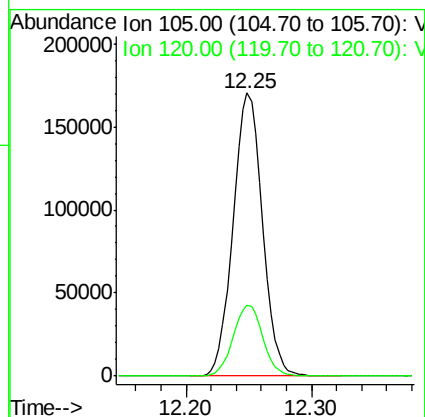
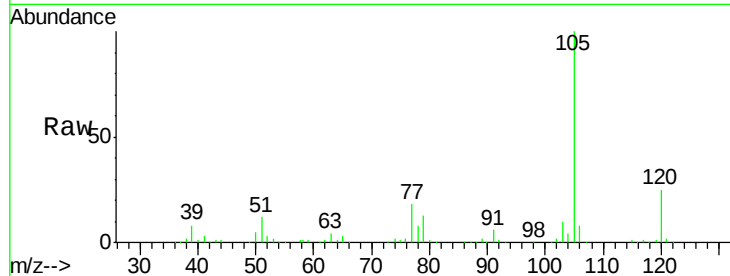
105 100

120 25.4 12.7 38.1

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#74

N-ethyl acetate

Concen: 23.281 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Tgt Ion: 43 Resp: 128070

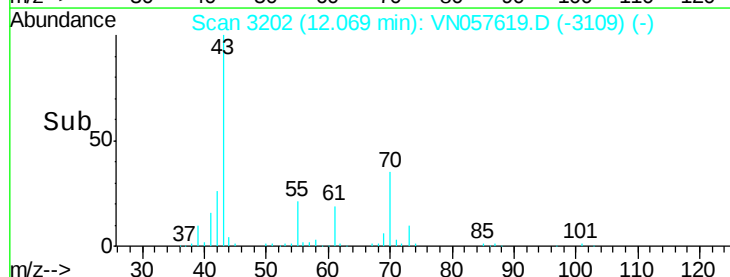
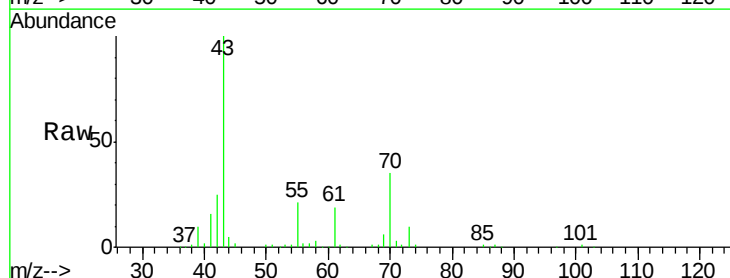
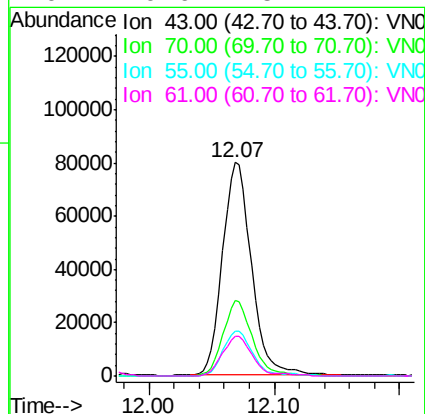
Ion Ratio Lower Upper

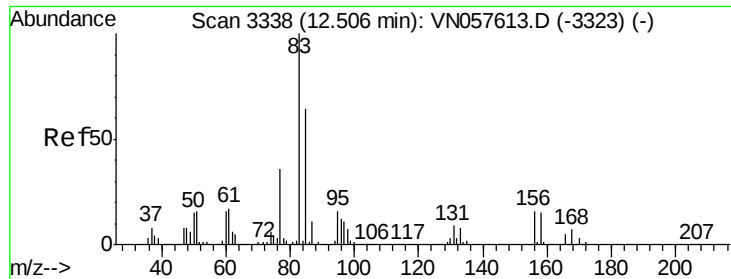
43 100

70 35.8 26.9 40.3

55 21.1 16.8 25.2

61 19.6 15.1 22.7





#75

1,1,2,2-Tetrachloroethane

Concen: 23.087 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

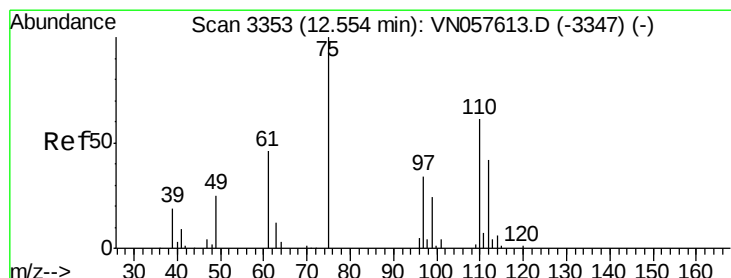
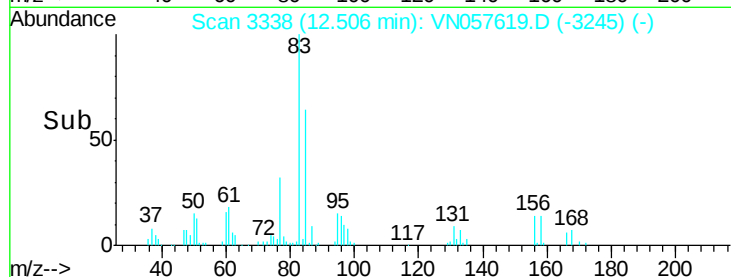
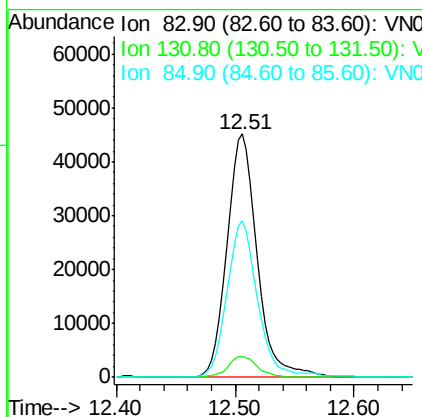
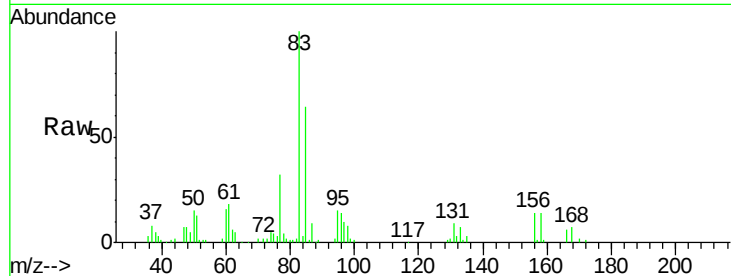
ClientSampleId :

VN0901WBSD01

Tot Ion:	83	Resp:	79317
Ion Ratio	Lower	Upper	
83	100		
131	8.4	4.5	13.7
85	65.5	31.3	93.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 23.356 ug/l m

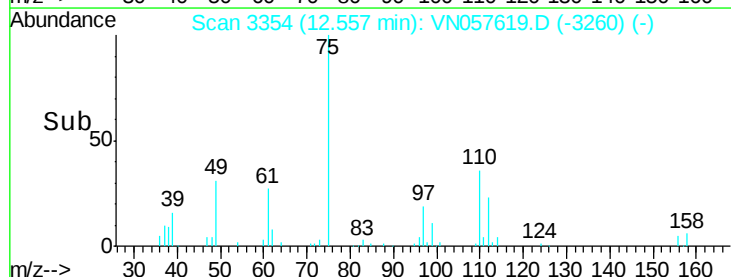
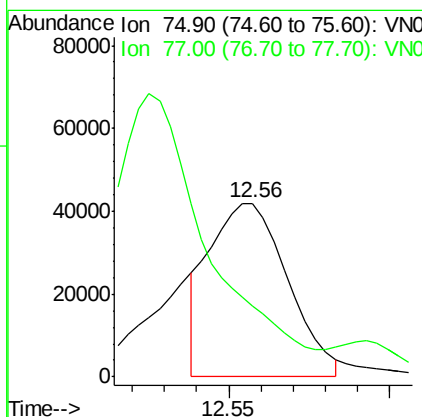
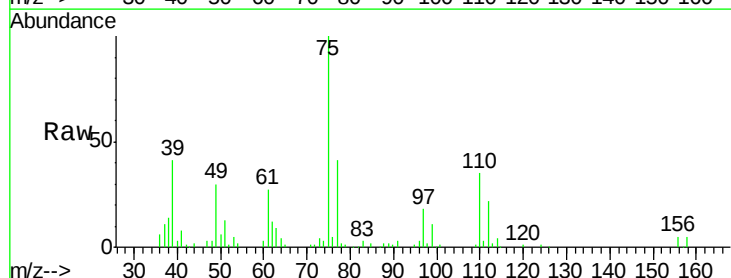
RT: 12.56 min Scan# 3354

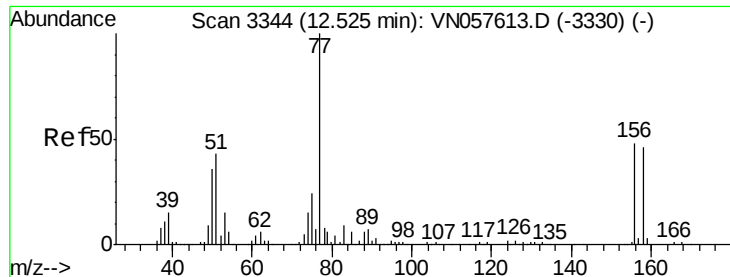
Delta R.T. 0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Tgt Ion:	75	Resp:	70931
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 22.933 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

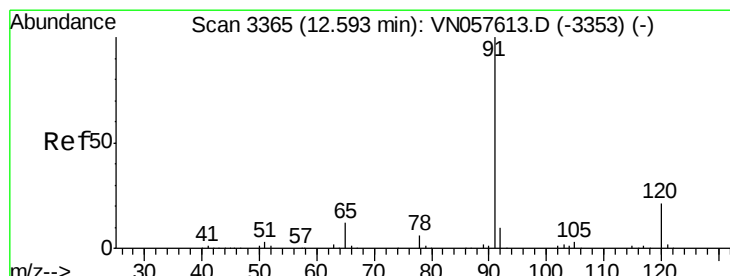
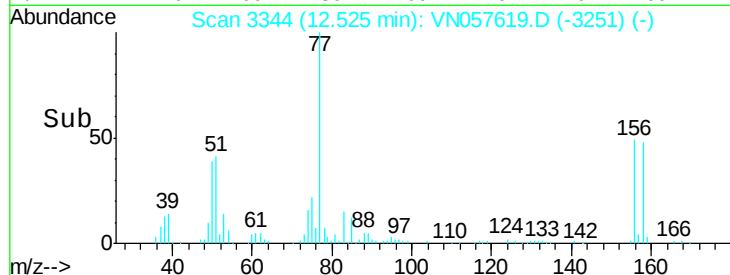
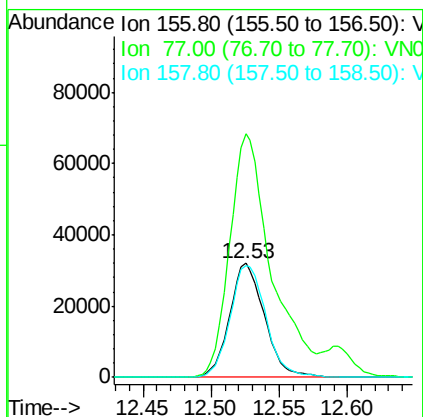
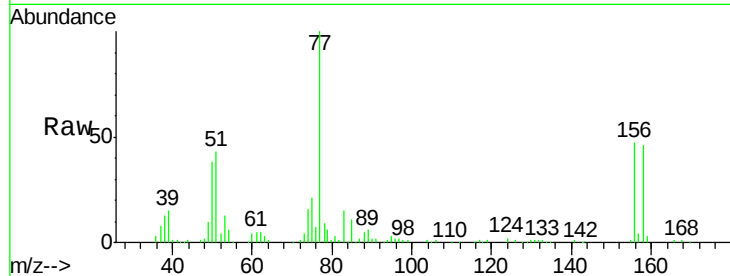
ClientSampleId :

VN0901WBSD01

Tot Ion:	156	Resp:	56895
Ion	Ratio	Lower	Upper
156	100		
77	253.0	123.5	370.5
158	100.9	47.8	143.3

Manual Integrations
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9/3/2019 11:52:19 AM



#78

n-propylbenzene

Concen: 23.001 ug/l

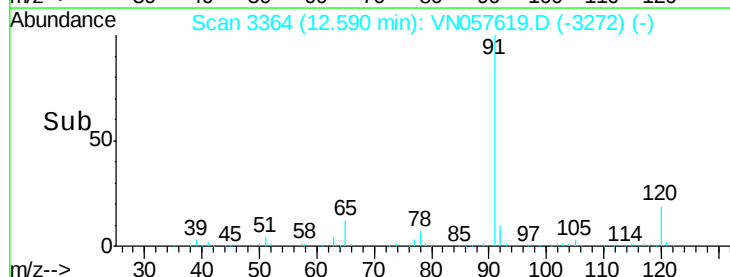
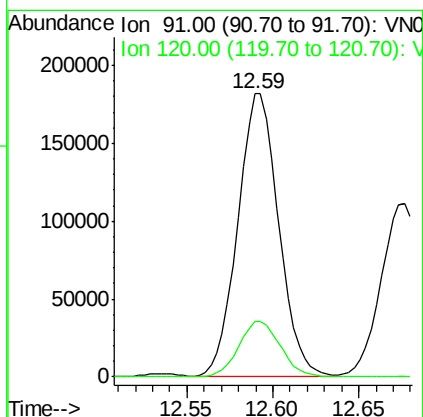
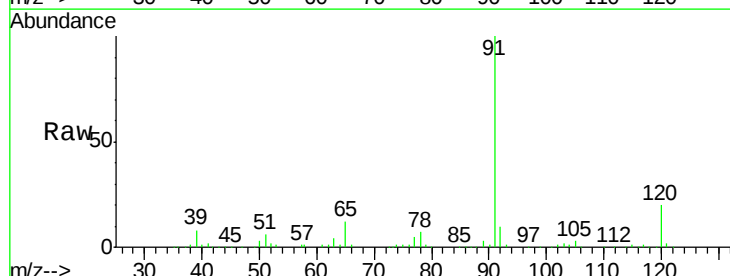
RT: 12.59 min Scan# 3364

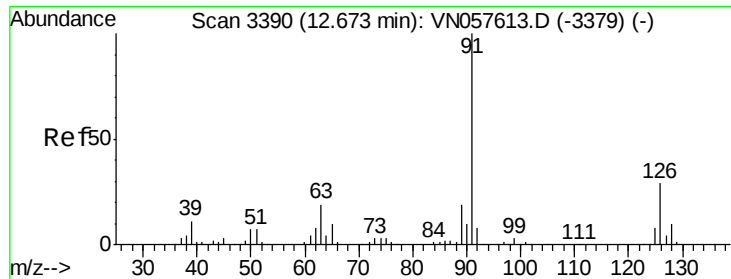
Delta R.T. -0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Tgt Ion:	91	Resp:	298414
Ion	Ratio	Lower	Upper
91	100		
120	20.1	10.4	31.4





#79

2-Chlorotoluene

Concen: 23.571 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBSD01

Tot Ion: 91 Resp: 190689

Ion Ratio Lower Upper

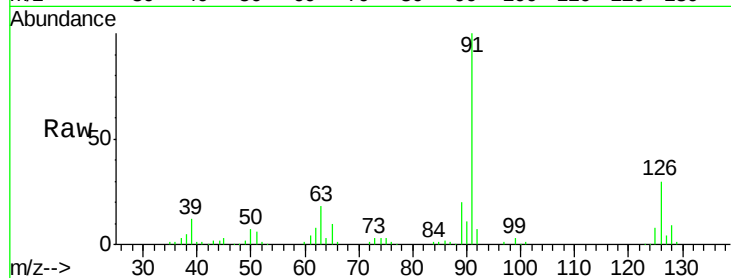
91 100

126 29.6 14.9 44.5

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN057619.D (-3390) (-)

Ion 125.90 (125.60 to 126.60): VN057619.D (-3390) (-)

120000

100000

80000

60000

40000

20000

0

12.65

12.70

12.75

12.80

12.85

12.90

12.95

13.00

13.05

13.10

13.15

13.20

13.25

13.30

13.35

13.40

13.45

13.50

13.55

13.60

13.65

13.70

13.75

13.80

13.85

13.90

13.95

14.00

14.05

14.10

14.15

14.20

14.25

14.30

14.35

14.40

14.45

14.50

14.55

14.60

14.65

14.70

14.75

14.80

14.85

14.90

14.95

15.00

15.05

15.10

15.15

15.20

15.25

15.30

15.35

15.40

15.45

15.50

15.55

15.60

15.65

15.70

15.75

15.80

15.85

15.90

15.95

16.00

16.05

16.10

16.15

16.20

16.25

16.30

16.35

16.40

16.45

16.50

16.55

16.60

16.65

16.70

16.75

16.80

16.85

16.90

16.95

17.00

17.05

17.10

17.15

17.20

17.25

17.30

17.35

17.40

17.45

17.50

17.55

17.60

17.65

17.70

17.75

17.80

17.85

17.90

17.95

18.00

18.05

18.10

18.15

18.20

18.25

18.30

18.35

18.40

18.45

18.50

18.55

18.60

18.65

18.70

18.75

18.80

18.85

18.90

18.95

19.00

19.05

19.10

19.15

19.20

19.25

19.30

19.35

19.40

19.45

19.50

19.55

19.60

19.65

19.70

19.75

19.80

19.85

19.90

19.95

20.00

20.05

20.10

20.15

20.20

20.25

20.30

20.35

20.40

20.45

20.50

20.55

20.60

20.65

20.70

20.75

20.80

20.85

20.90

20.95

21.00

21.05

21.10

21.15

21.20

21.25

21.30

21.35

21.40

21.45

21.50

21.55

21.60

21.65

21.70

21.75

21.80

21.85

21.90

21.95

22.00

22.05

22.10

22.15

22.20

22.25

22.30

22.35

22.40

22.45

22.50

22.55

22.60

22.65

22.70

22.75

22.80

22.85

22.90

22.95

23.00

23.05

23.10

23.15

23.20

23.25

23.30

23.35

23.40

23.45

23.50

23.55

23.60

23.65

23.70

23.75

23.80

23.85

23.90

23.95

24.00

24.05

24.10

24.15

24.20

24.25

24.30

24.35

24.40

24.45

24.50

24.55

24.60

24.65

24.70

24.75

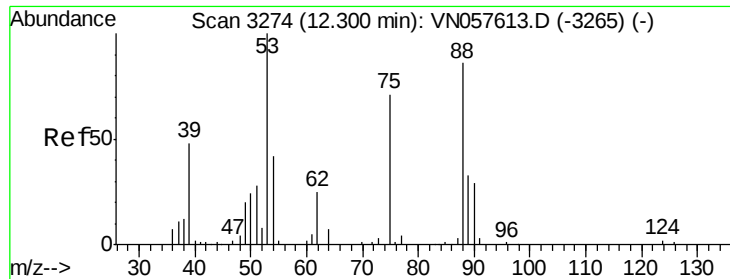
24.80

24.85

24.90

24.95

25.00



#81

trans-1,4-Dichloro-2-butene

Concen: 18.396 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

ClientSampleId :

VN0901WBSD01

Tot Ion: 75 Resp: 16298

Ion Ratio Lower Upper

75 100

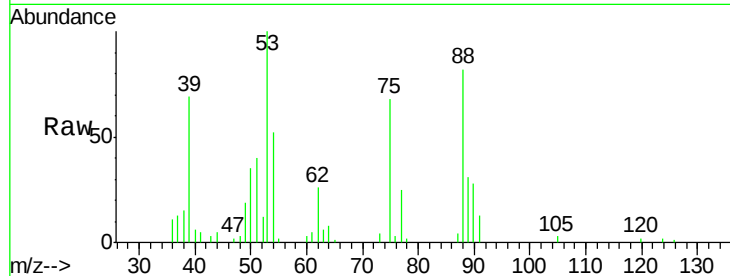
53 154.2 111.0 166.6

89 45.7 38.3 57.5

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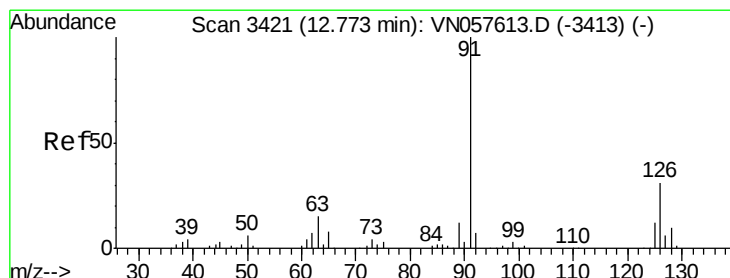
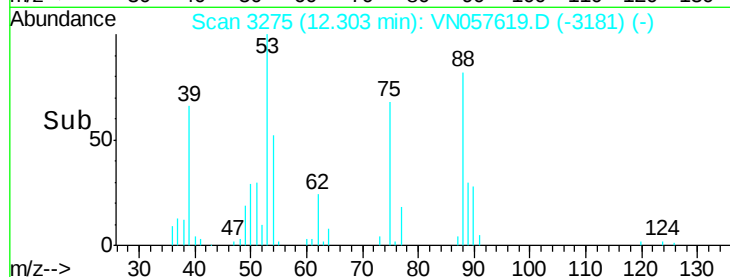
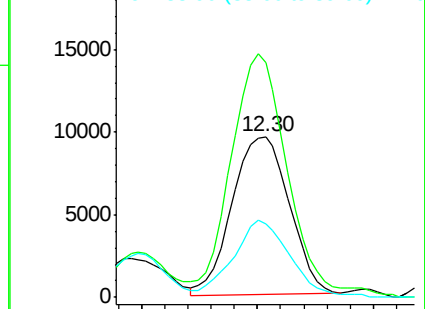
9/3/2019 11:52:19 AM



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 21.866 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN057619.D

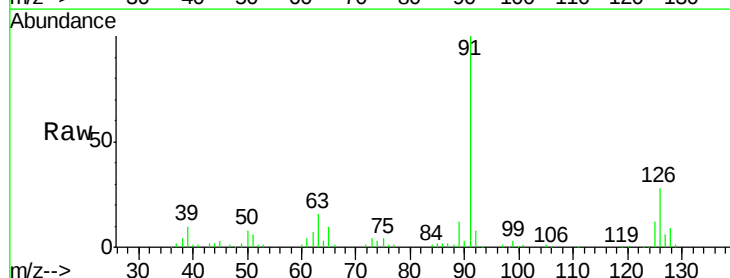
Acq: 31 Aug 2019 17:24

Tgt Ion: 91 Resp: 175103

Ion Ratio Lower Upper

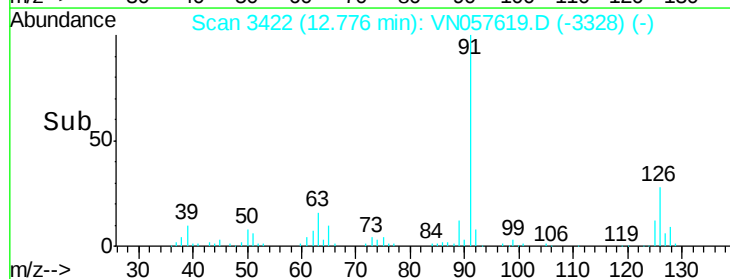
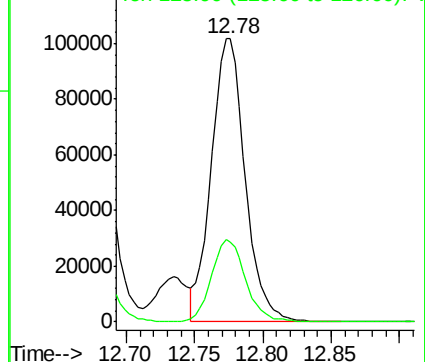
91 100

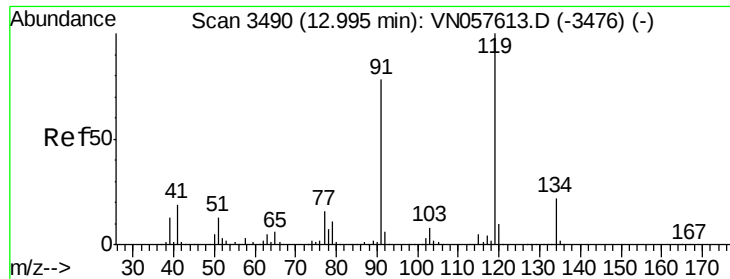
126 29.3 14.4 43.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





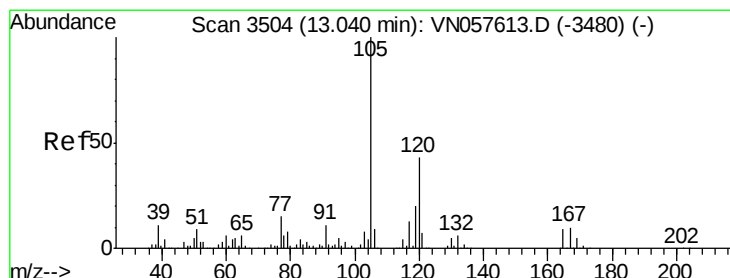
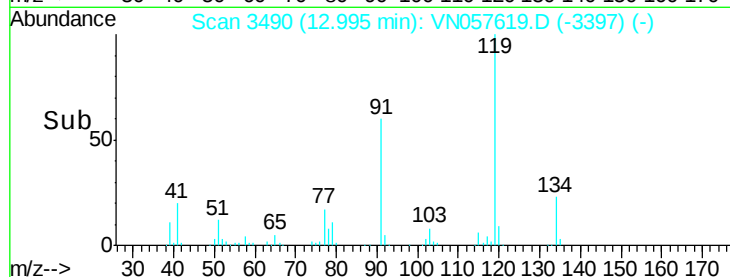
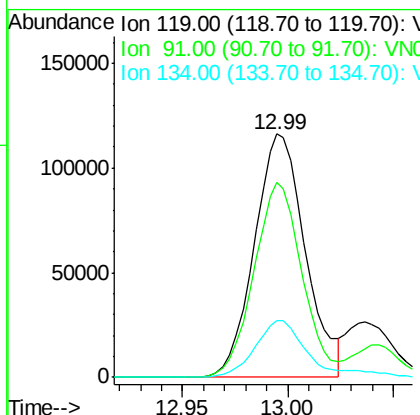
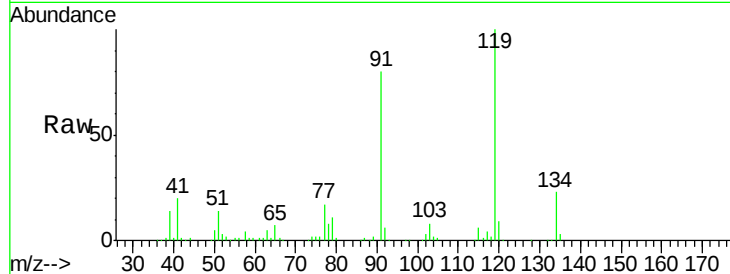
#83
tert-Butylbenzene
Concen: 23.959 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	75.7	38.3	114.9
134	24.5	11.3	33.8

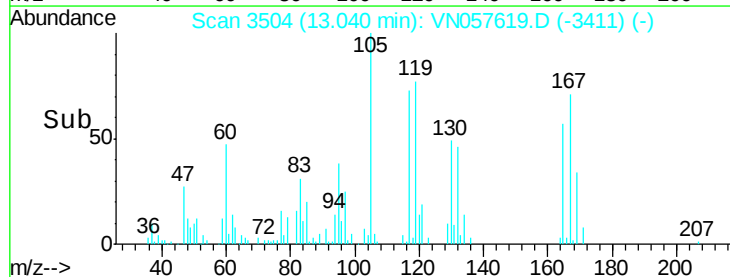
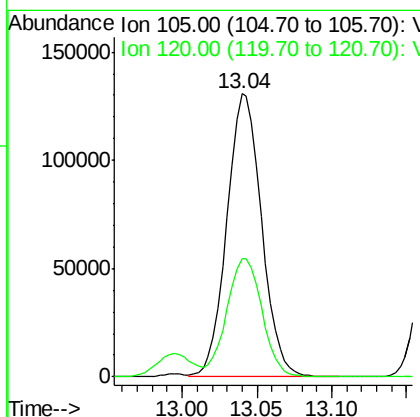
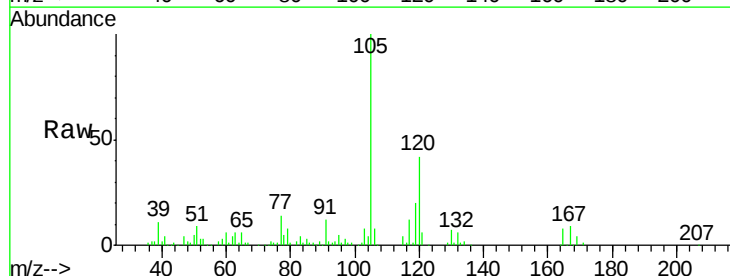
Manual Integrations
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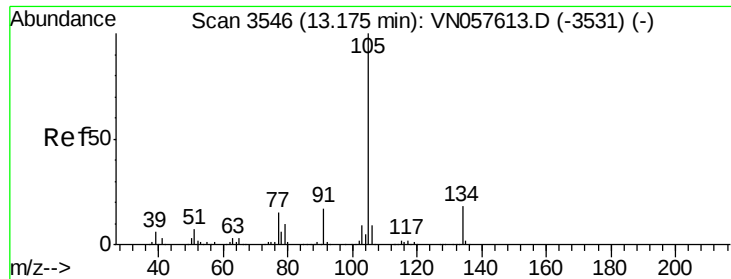
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#84
1,2,4-Trimethylbenzene
Concen: 22.798 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.5	20.8	62.5





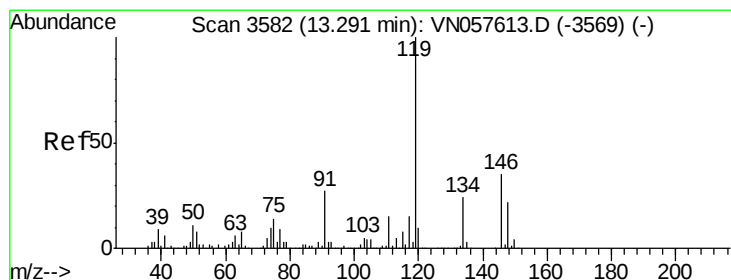
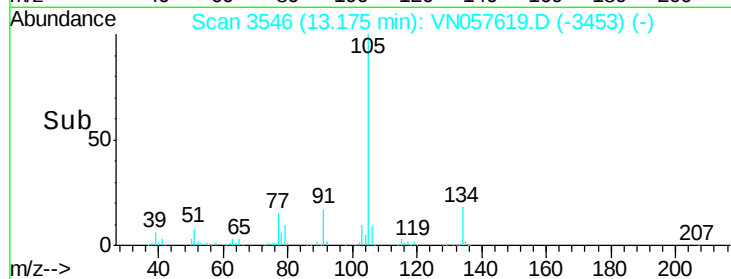
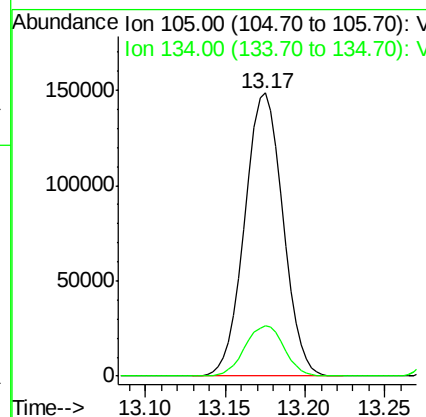
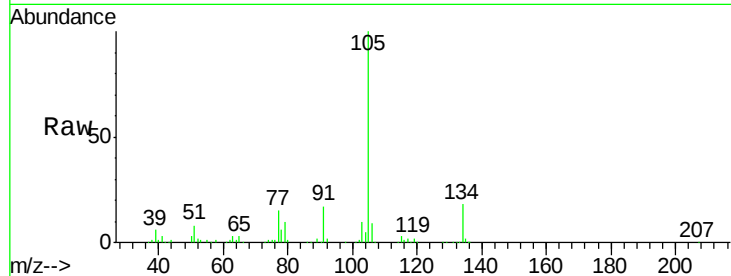
#85
 sec-Butylbenzene
 Concen: 22.145 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	242373		
134	18.2	8.9	26.8	

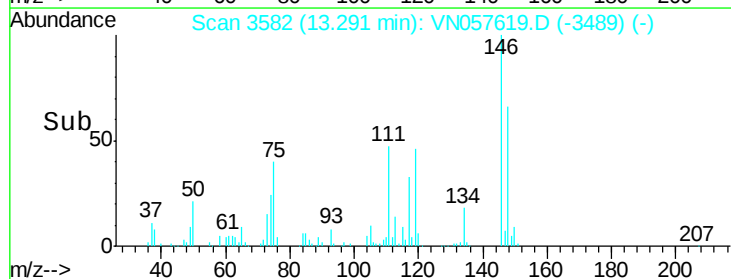
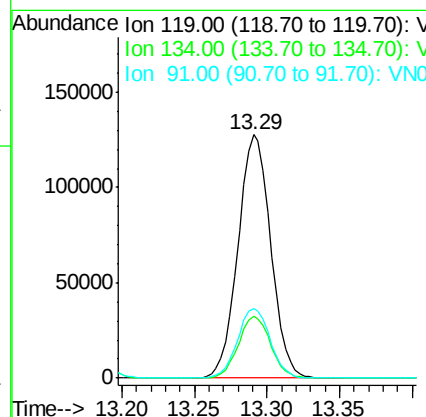
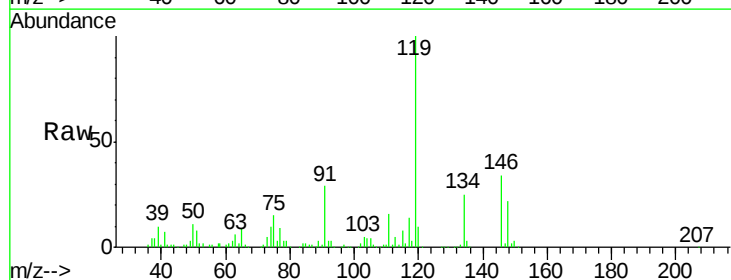
Manual Integrations
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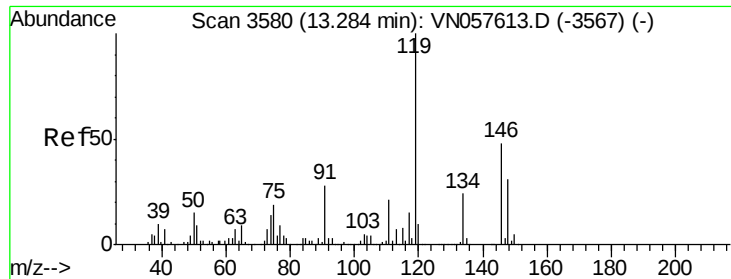
MMDadoda
 9/3/2019 11:52:19 AM



#86
 p-Isopropyltoluene
 Concen: 22.063 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	199704		
134	25.0	11.9	35.5	
91	28.7	13.7	41.0	





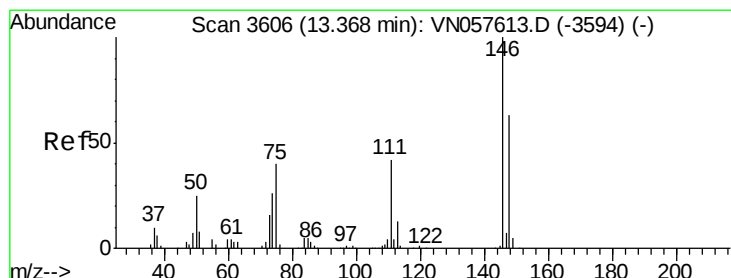
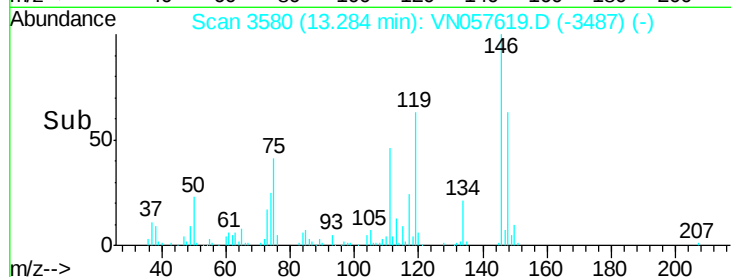
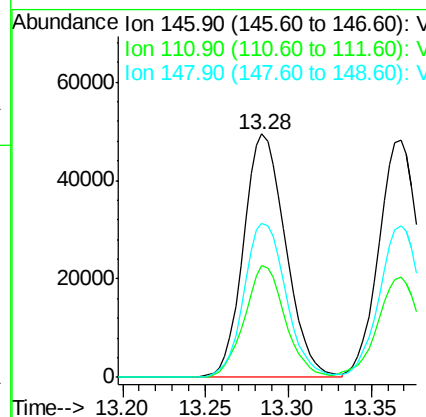
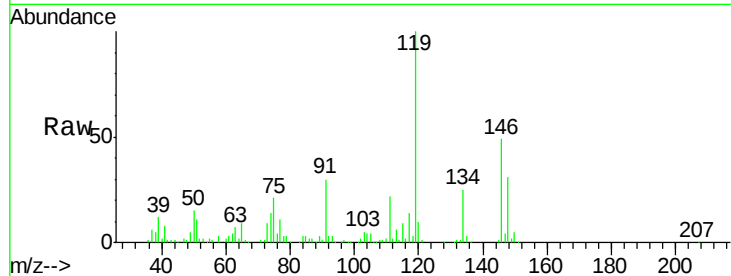
#87
 1,3-Dichlorobenzene
 Concen: 21.657 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100			
111	44.1	21.8	65.3	
148	63.3	31.4	94.2	

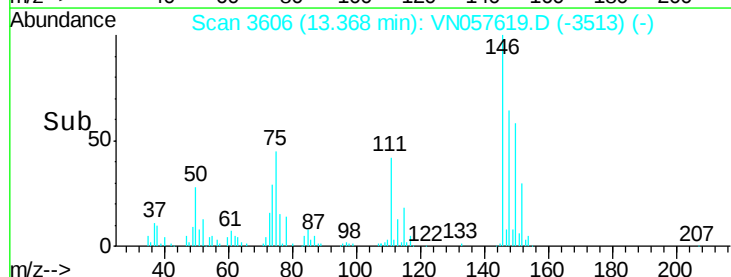
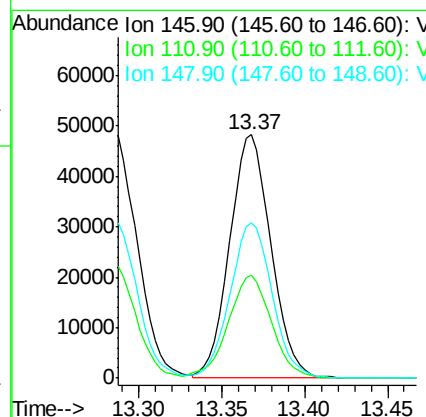
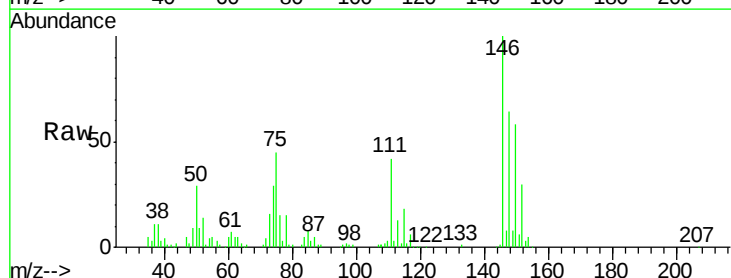
Manual Integrations
 APPROVED

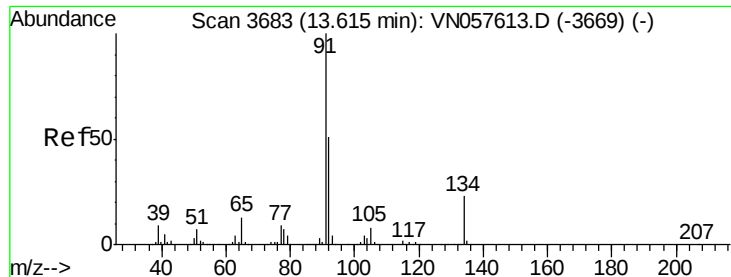
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 9/3/2019 11:52:19 AM



#88
 1,4-Dichlorobenzene
 Concen: 21.426 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
146	100			
111	44.2	21.6	65.0	
148	65.1	32.2	96.6	





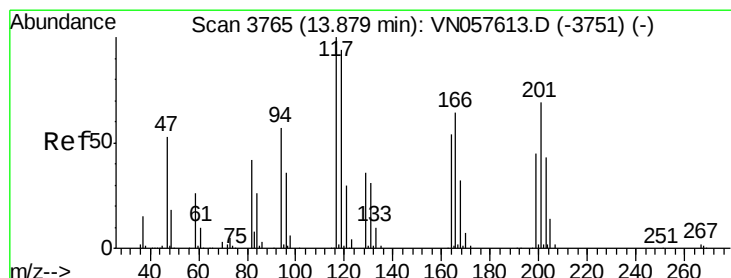
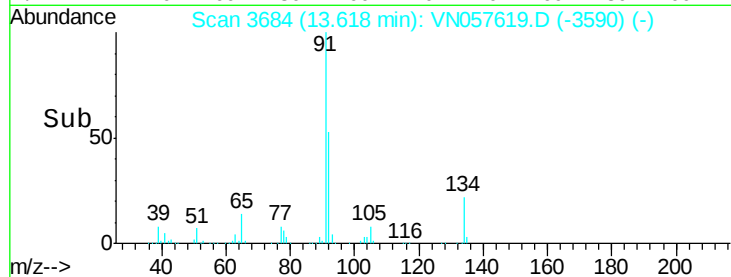
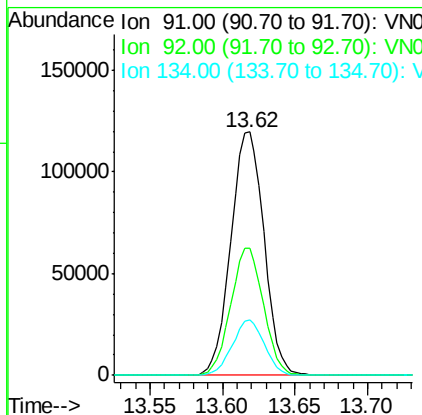
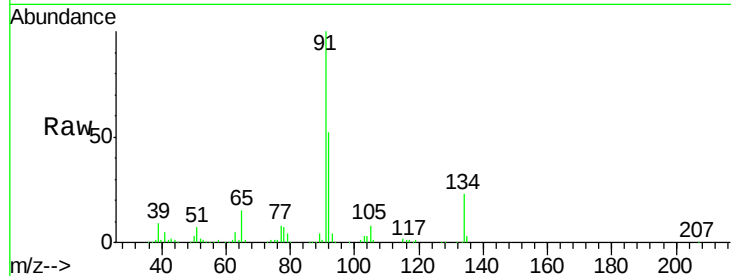
#89
n-Butylbenzene
Concen: 22.363 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Instrument :
MSVOA_N
ClientSampleId :
VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.5	25.4	76.0
134	22.2	11.0	33.0

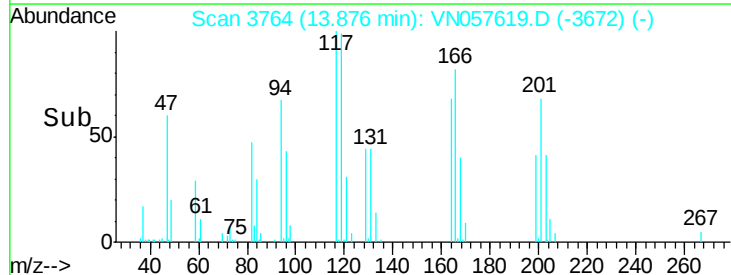
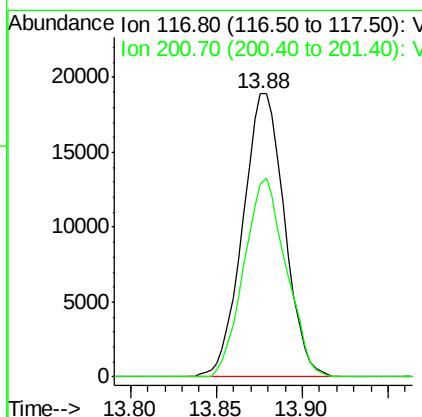
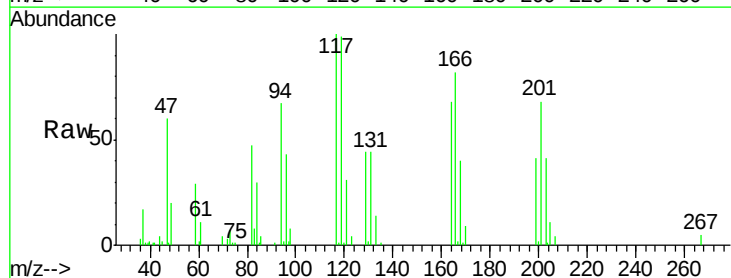
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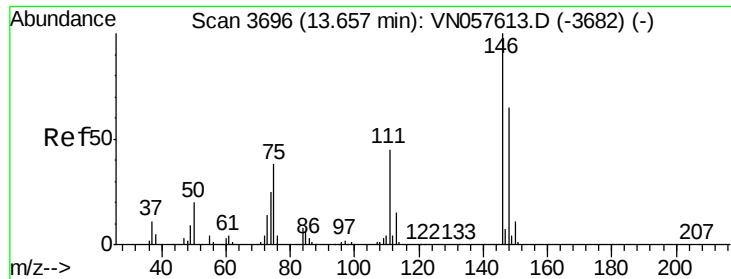
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#90
Hexachloroethane
Concen: 20.255 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN057619.D
Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
117	100		
201	71.1	34.4	103.2





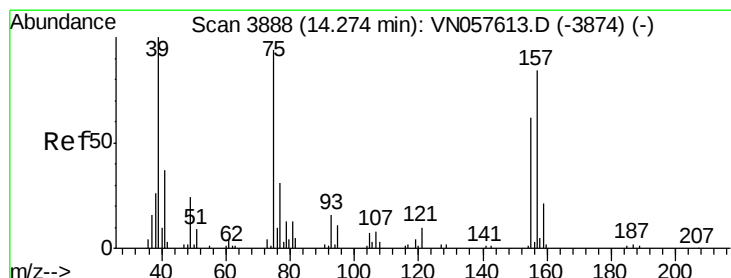
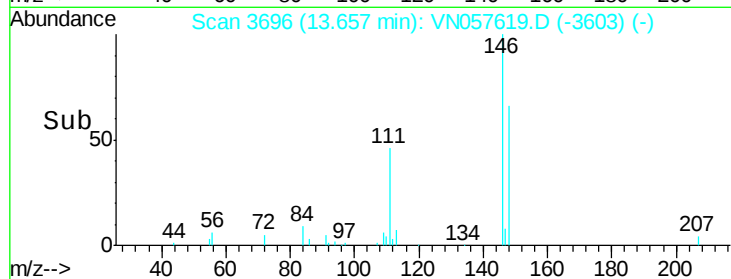
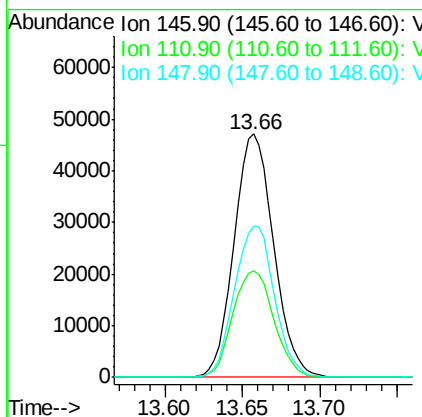
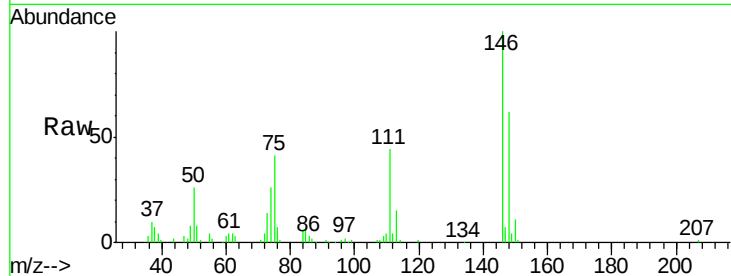
#91
 1,2-Dichlorobenzene
 Concen: 21.688 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.4	22.1	66.5
148	62.9	31.6	94.7

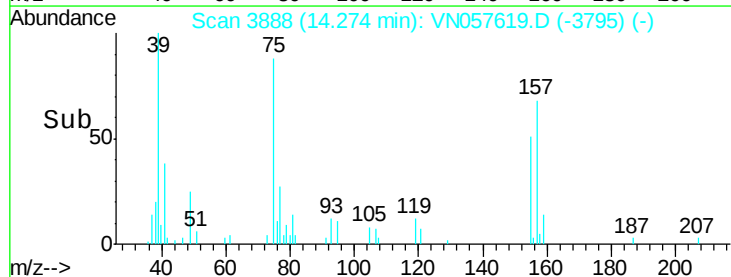
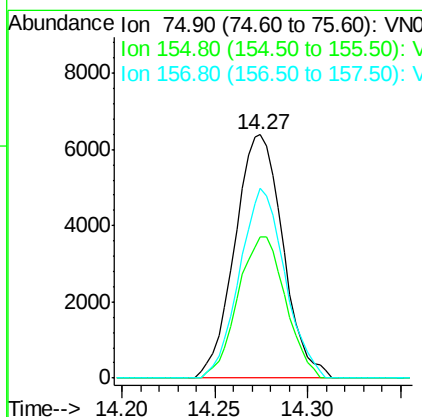
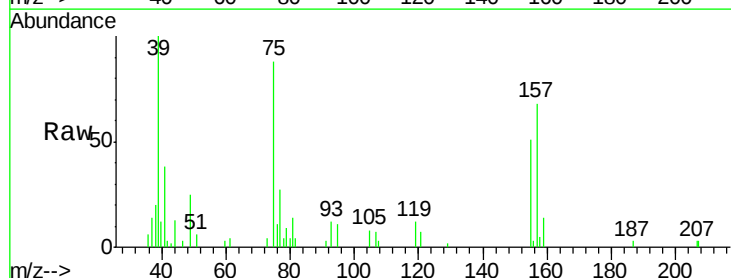
Manual Integrations
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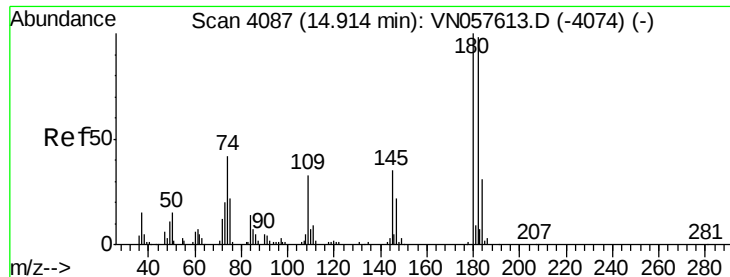
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.800 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	57.2	30.1	90.5
157	73.5	41.4	124.4





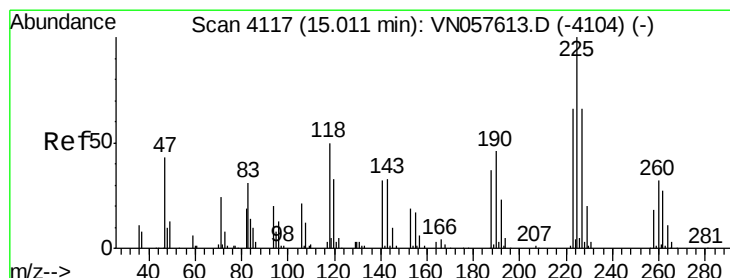
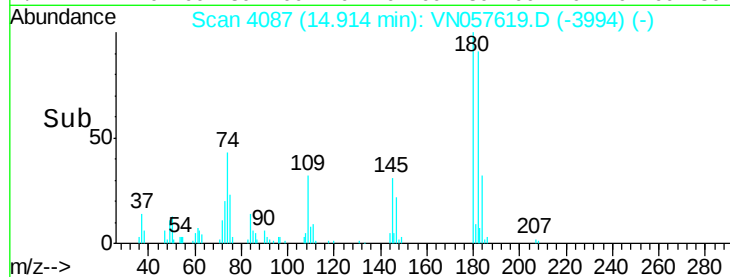
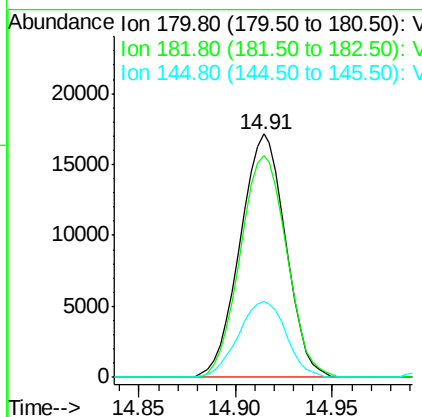
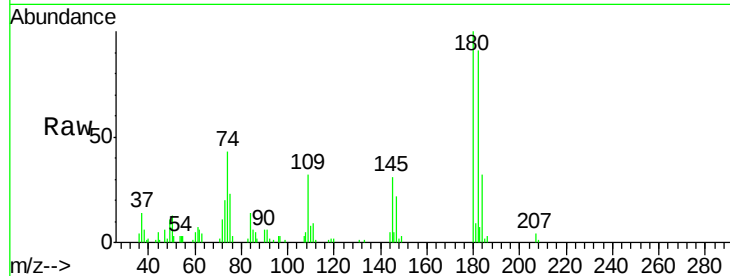
#93
 1,2,4-Trichlorobenzene
 Concen: 22.328 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0901WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	28163		
182	93.1	47.8	143.3	
145	32.7	16.9	50.7	

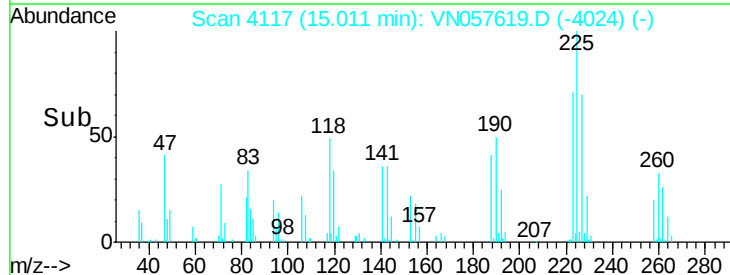
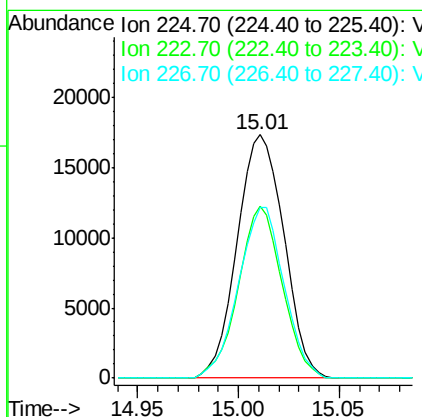
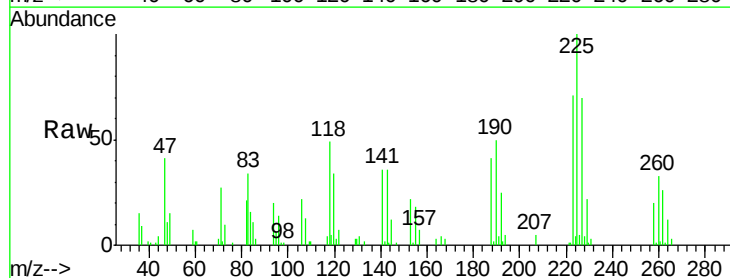
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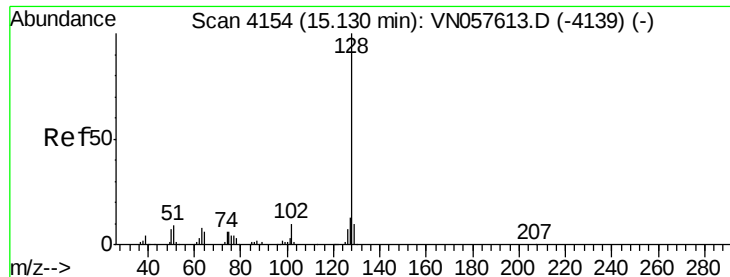
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#94
 Hexachlorobutadiene
 Concen: 21.340 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN057619.D
 Acq: 31 Aug 2019 17:24

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	28244		
223	65.9	32.3	96.8	
227	68.0	32.4	97.2	





#95

Naphthalene

Concen: 21.024 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Instrument :

MSVOA_N

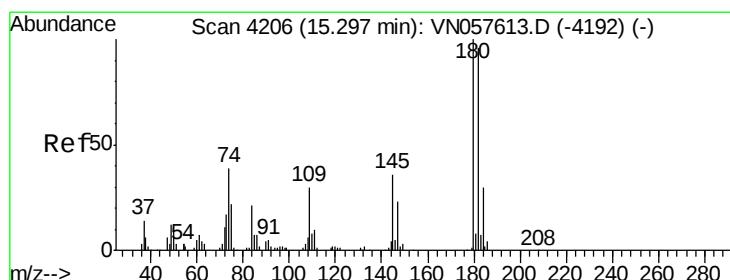
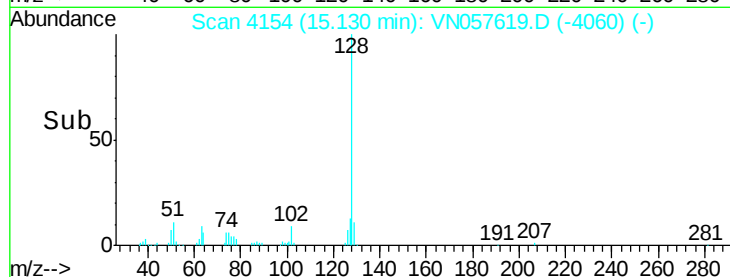
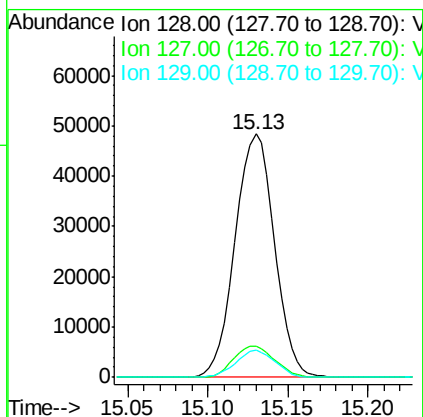
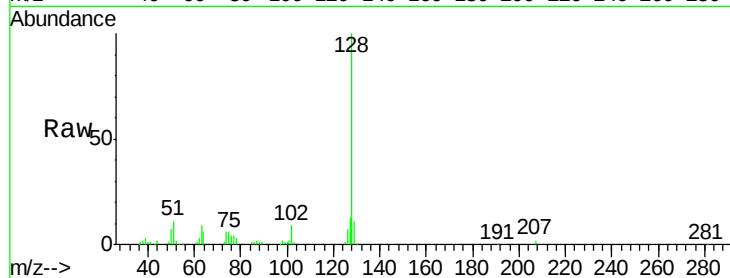
ClientSampleId :

VN0901WBSD01

Tot Ion:	128	Resp:	81043
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.2	15.2
129	11.1	8.6	12.8

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 21.477 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057619.D

Acq: 31 Aug 2019 17:24

Tgt Ion:	180	Resp:	27189
Ion Ratio	Lower	Upper	
180	100		
182	98.1	46.3	138.9
145	35.1	17.8	53.3

