

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN110119\
 Data File : VN059053.D
 Acq On : 1 Nov 2019 11:09
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 11/5/2019 1:58:45 PM

Quant Time: Nov 02 04:40:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 05:16:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	391096	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	616375	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	563540	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	251298	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	117442	20.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.78%	
35) Dibromofluoromethane	7.57	113	87234	21.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.22%	
50) Toluene-d8	10.08	98	338470	21.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.98%	
62) 4-Bromofluorobenzene	12.40	95	117318	20.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.66%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.83	85	91418	19.324	ug/l 98
3) Chloromethane	2.04	50	118848	20.005	ug/l 98
4) Vinyl Chloride	2.17	62	116440	19.821	ug/l 99
5) Bromomethane	2.55	94	68371	18.915	ug/l 99
6) Chloroethane	2.69	64	70837	18.981	ug/l 99
7) Trichlorofluoromethane	3.00	101	142454	19.734	ug/l 100
8) Diethyl Ether	3.39	74	53762	20.943	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	82018	20.133	ug/l 100
10) Methyl Iodide	3.93	142	94577	18.000	ug/l 98
11) Tert butyl alcohol	4.75	59	92104	96.933	ug/l 99
12) 1,1-Dichloroethene	3.72	96	80901	21.123	ug/l 94
13) Acrolein	3.58	56	56756	88.550	ug/l 99
14) Allyl chloride	4.30	41	158752m	20.528	ug/l
15) Acrylonitrile	4.96	53	253310	106.715	ug/l 100
16) Acetone	3.79	43	296888	107.136	ug/l 97
17) Carbon Disulfide	4.03	76	251710	20.495	ug/l 97
18) Methyl Acetate	4.29	43	131412	20.484	ug/l 99
19) Methyl tert-butyl Ether	5.01	73	274994	20.635	ug/l 99
20) Methylene Chloride	4.53	84	92778	19.343	ug/l 97
21) trans-1,2-Dichloroethene	5.02	96	84970	20.185	ug/l 99
22) Diisopropyl ether	5.92	45	313170	20.814	ug/l 95
23) Vinyl Acetate	5.87	43	1309716	108.901	ug/l 99
24) 1,1-Dichloroethane	5.82	63	175043	20.062	ug/l 98
25) 2-Butanone	6.81	43	370173	102.254	ug/l 97
26) 2,2-Dichloropropane	6.80	77	150050	19.956	ug/l 99
27) cis-1,2-Dichloroethene	6.81	96	96764	20.161	ug/l 98
28) Bromochloromethane	7.17	49	48463	16.932	ug/l 96
29) Tetrahydrofuran	7.19	42	235921	106.273	ug/l 99
30) Chloroform	7.35	83	165899	19.082	ug/l 98
31) Cyclohexane	7.63	56	161352	19.886	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	142491	19.491	ug/l 98
36) 1,1-Dichloropropene	7.77	75	128172	20.651	ug/l 99
37) Ethyl Acetate	6.91	43	147029	21.700	ug/l 99
38) Carbon Tetrachloride	7.75	117	124849	19.556	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	145657	20.722	ug/l	97
40) Benzene	8.02	78	381418	20.840	ug/l	100
41) Methacrylonitrile	7.15	41	55233m	17.991	ug/l	
42) 1,2-Dichloroethane	8.10	62	135432	19.505	ug/l	97
43) Isopropyl Acetate	8.15	43	220633	20.264	ug/l	99
44) Trichloroethene	8.82	130	92413	20.681	ug/l	99
45) 1,2-Dichloropropane	9.10	63	103719	20.680	ug/l	100
46) Dibromomethane	9.19	93	65311	20.680	ug/l	96
47) Bromodichloromethane	9.39	83	130413	20.084	ug/l	99
48) Methyl methacrylate	9.19	41	97631	19.891	ug/l	99
49) 1,4-Dioxane	9.18	88	30247	366.418	ug/l	98
51) 4-Methyl-2-Pentanone	9.97	43	700487	110.678	ug/l	98
52) Toluene	10.15	92	227843	21.035	ug/l	100
53) t-1,3-Dichloropropene	10.37	75	145110	20.130	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	157715	20.426	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	91252	20.420	ug/l	97
56) Ethyl methacrylate	10.42	69	134659	20.410	ug/l	97
57) 1,3-Dichloropropane	10.70	76	157007	20.100	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.68	63	268398	96.745	ug/l	99
59) 2-Hexanone	10.75	43	521197	106.758	ug/l	98
60) Dibromochloromethane	10.90	129	97581	20.314	ug/l	99
61) 1,2-Dibromoethane	11.00	107	92528	20.275	ug/l	99
64) Tetrachloroethene	10.63	164	81577	20.902	ug/l	99
65) Chlorobenzene	11.43	112	235740	20.752	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	88698	20.728	ug/l	100
67) Ethyl Benzene	11.51	91	426715	21.468	ug/l	99
68) m/p-Xylenes	11.62	106	317292	43.103	ug/l	99
69) o-Xylene	11.95	106	148884	21.149	ug/l	99
70) Styrene	11.96	104	239922	20.900	ug/l	99
71) Bromoform	12.13	173	69056	20.711	ug/l #	98
73) Isopropylbenzene	12.25	105	404301	22.203	ug/l	100
74) N-amyl acetate	12.07	43	174607	21.286	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	138694	21.667	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	129241m	22.174	ug/l	
77) Bromobenzene	12.53	156	96297	21.423	ug/l	97
78) n-propylbenzene	12.59	91	467679	21.754	ug/l	100
79) 2-Chlorotoluene	12.68	91	282393	21.430	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	340566	22.336	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	47604	21.319	ug/l	97
82) 4-Chlorotoluene	12.78	91	284195	21.166	ug/l	100
83) tert-Butylbenzene	13.00	119	285942	21.898	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	340514	22.656	ug/l	100
85) sec-Butylbenzene	13.17	105	380191	21.887	ug/l	100
86) p-Isopropyltoluene	13.29	119	341131	22.223	ug/l	100
87) 1,3-Dichlorobenzene	13.29	146	169443	21.141	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	165135	20.593	ug/l	99
89) n-Butylbenzene	13.62	91	290411	20.720	ug/l	98
90) Hexachloroethane	13.88	117	64599	20.733	ug/l	97
91) 1,2-Dichlorobenzene	13.66	146	168665	21.451	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	28320	19.787	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	86129	19.956	ug/l	100
94) Hexachlorobutadiene	15.01	225	55641	21.722	ug/l	99
95) Naphthalene	15.13	128	235809	19.725	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	88471	20.830	ug/l	99

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

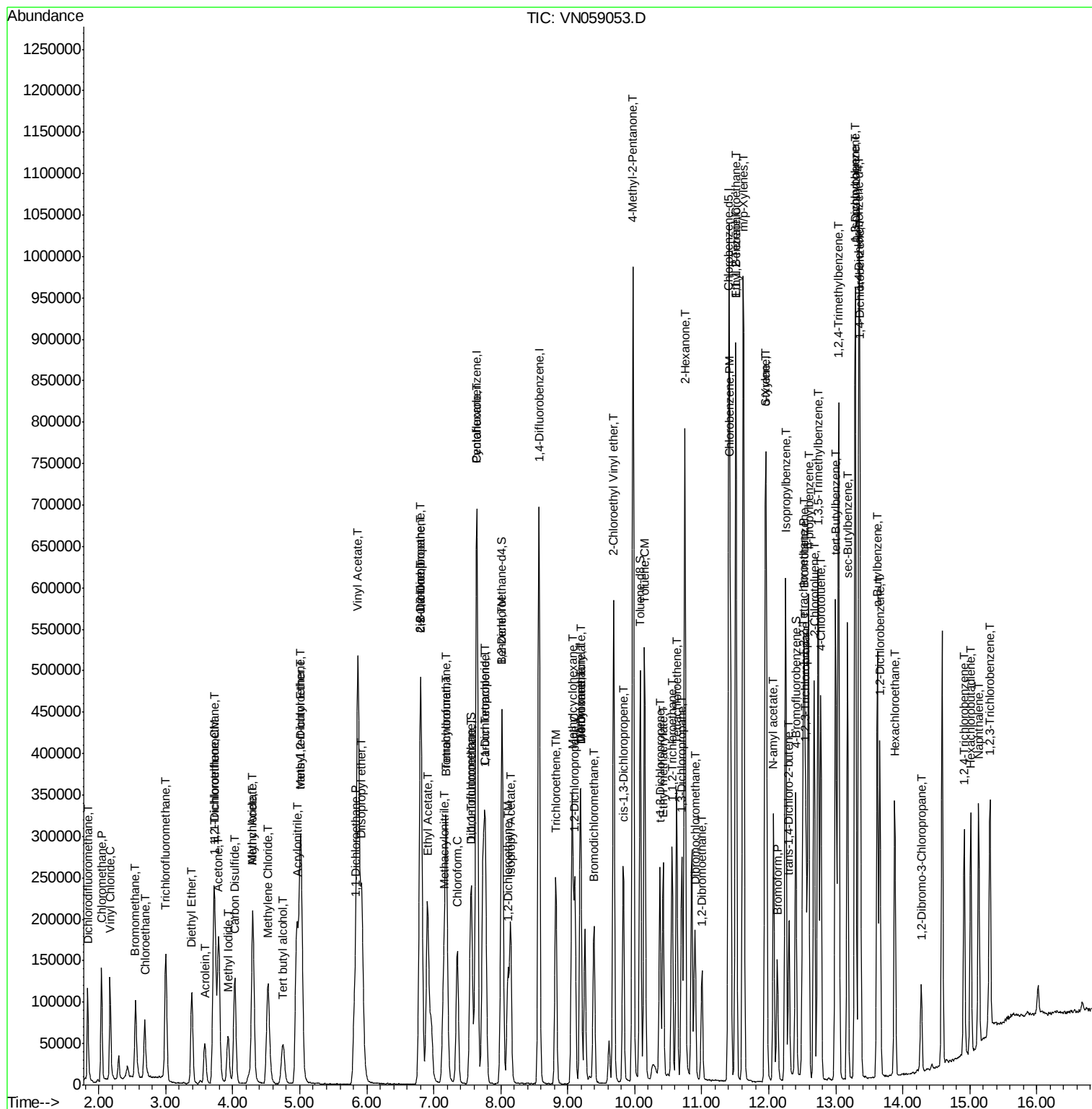
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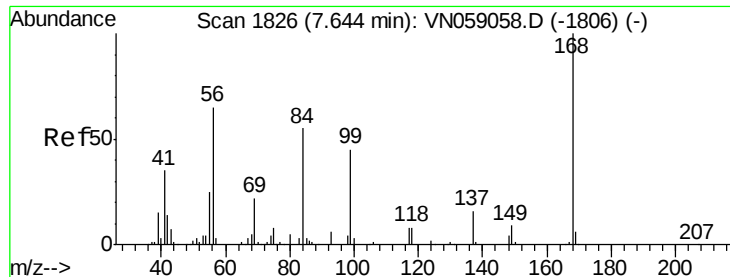
Instrument :
MSVOA_N
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Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 168 Resp: 391096

Ion Ratio Lower Upper

168 100

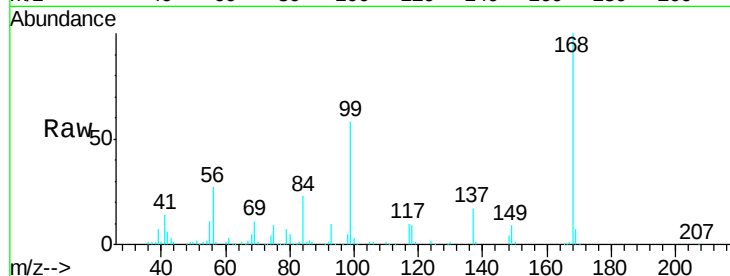
99 57.6 44.1 66.1

Manual Integrations

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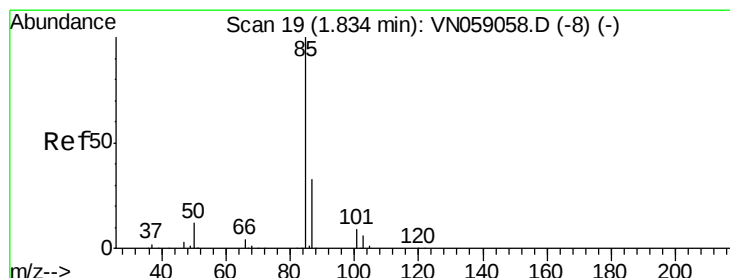
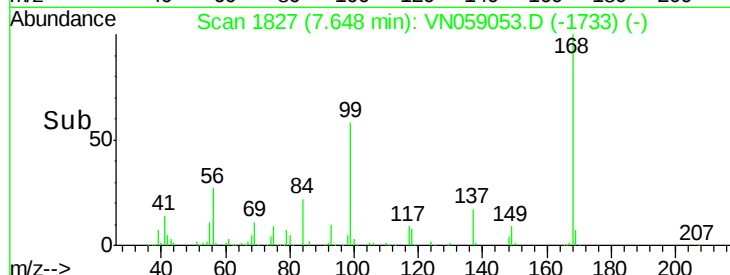
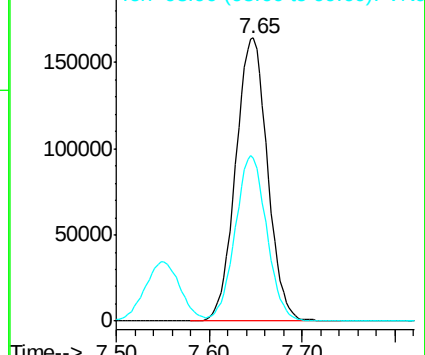
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 19.324 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN059053.D

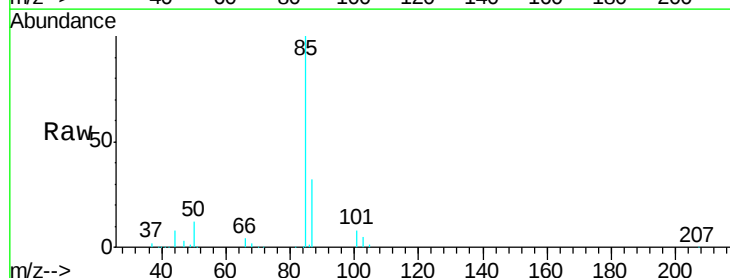
Acq: 1 Nov 2019 11:09

Tgt Ion: 85 Resp: 91418

Ion Ratio Lower Upper

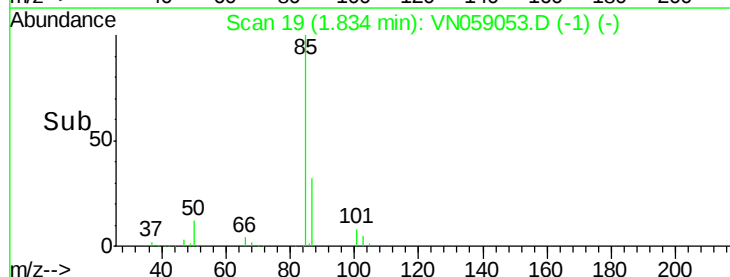
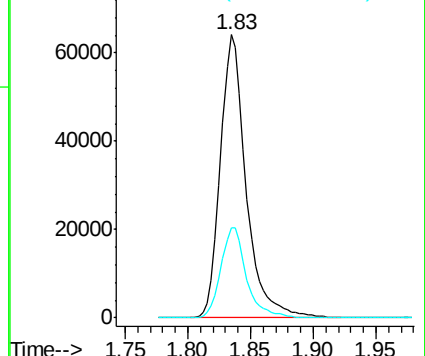
85 100

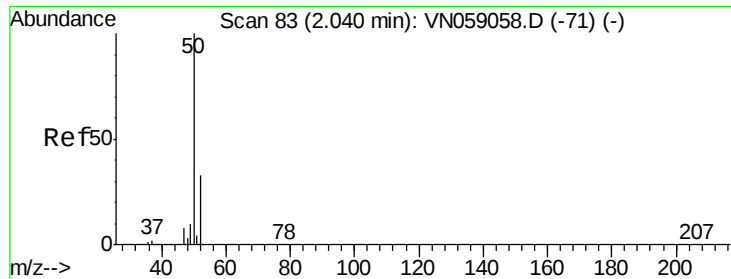
87 31.9 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 20.005 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 50 Resp: 118848

Ion Ratio Lower Upper

50 100

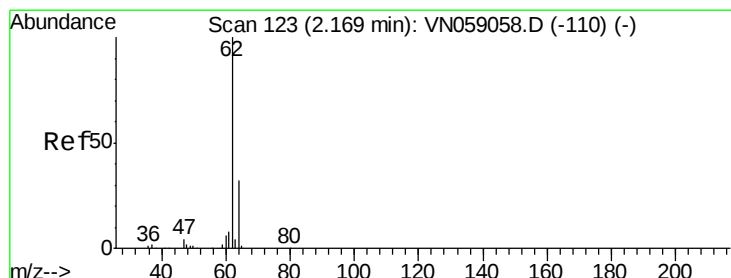
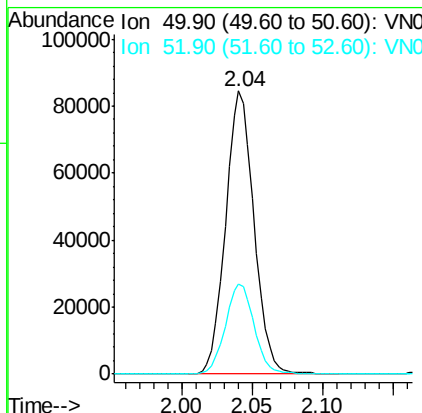
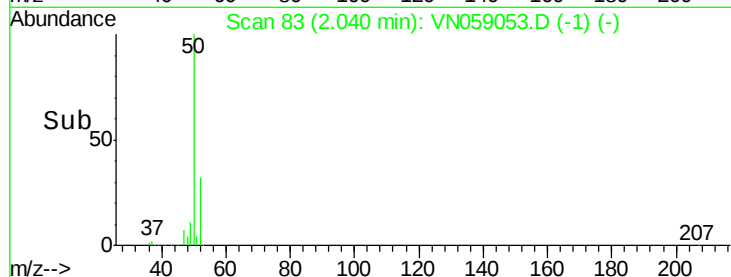
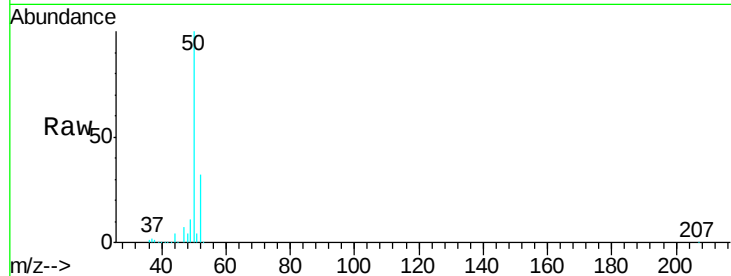
52 32.0 26.3 39.5

Manual Integrations

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11/5/2019 1:58:45 PM



#4

Vinyl Chloride

Concen: 19.821 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN059053.D

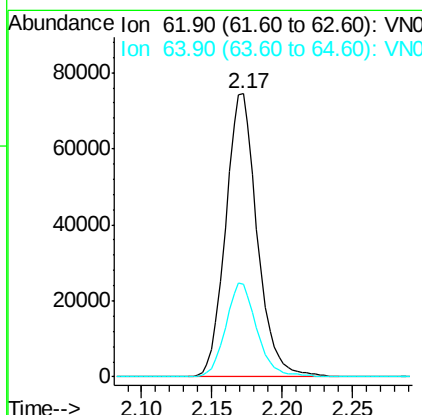
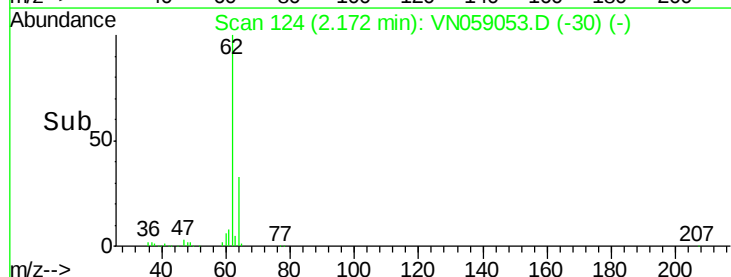
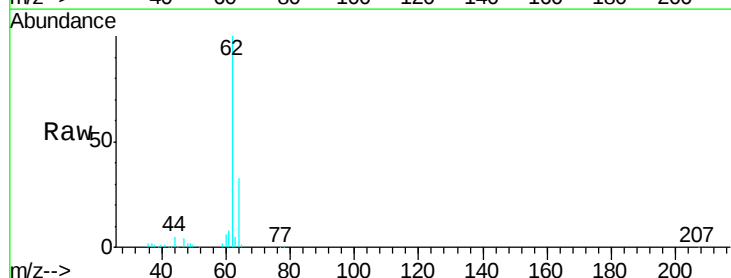
Acq: 1 Nov 2019 11:09

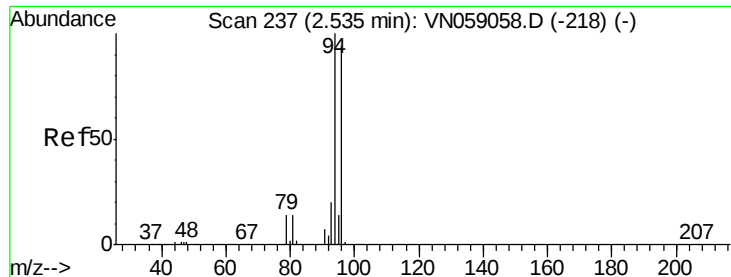
Tgt Ion: 62 Resp: 116440

Ion Ratio Lower Upper

62 100

64 32.9 25.8 38.8





#5

Bromomethane

Concen: 18.915 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

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Tgt Ion: 94 Resp: 68371

Ion Ratio Lower Upper

94 100

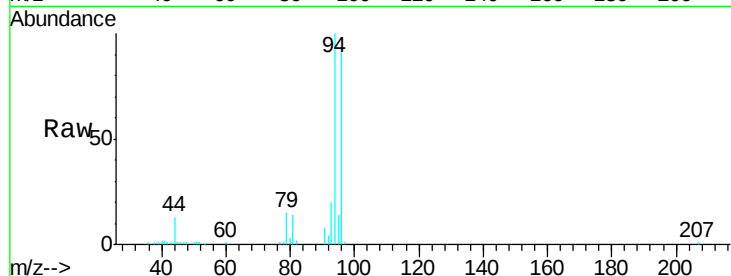
96 92.7 75.1 112.7

Manual Integrations

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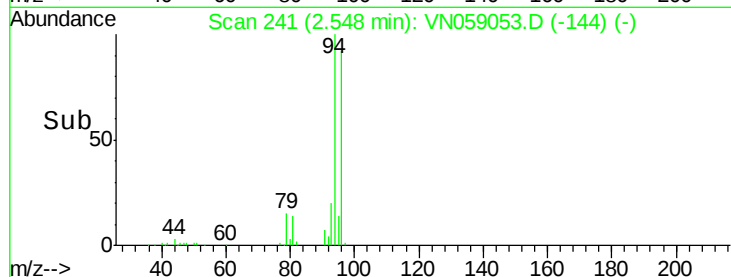


Abundance Ion 93.90 (93.60 to 94.60): VN059058.D (-218) (-)

Ion 95.90 (95.60 to 96.60): VN059058.D (-218) (-)

2.55

Time-->

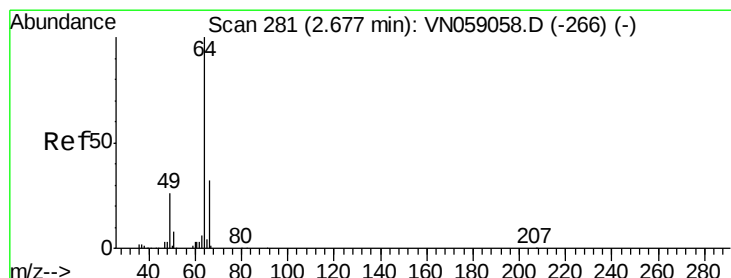


Abundance Ion 63.90 (63.60 to 64.60): VN059058.D (-266) (-)

Ion 65.90 (65.60 to 66.60): VN059058.D (-266) (-)

2.69

Time-->



#6

Chloroethane

Concen: 18.981 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.01 min

Lab File: VN059053.D

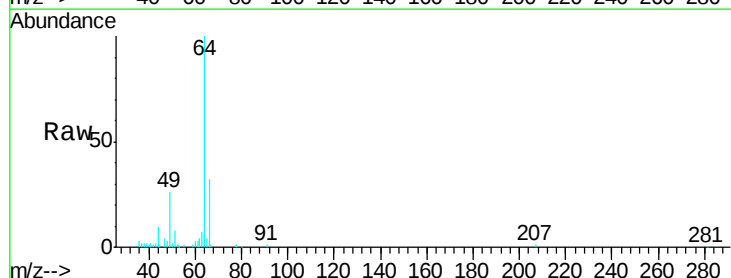
Acq: 1 Nov 2019 11:09

Tgt Ion: 64 Resp: 70837

Ion Ratio Lower Upper

64 100

66 31.6 25.6 38.4

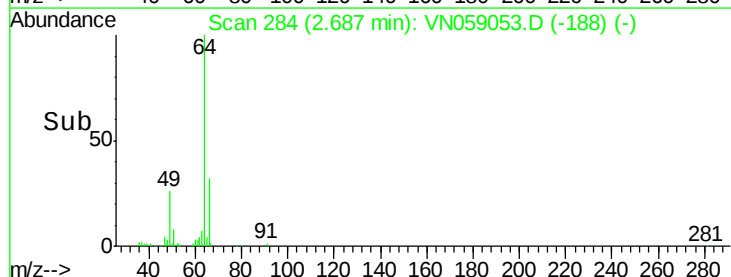


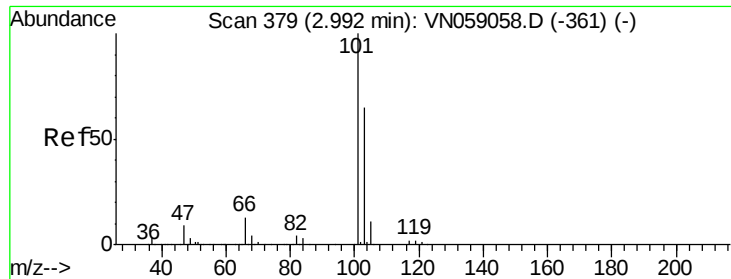
Abundance Ion 63.90 (63.60 to 64.60): VN059058.D (-266) (-)

Ion 65.90 (65.60 to 66.60): VN059058.D (-266) (-)

2.69

Time-->





#7

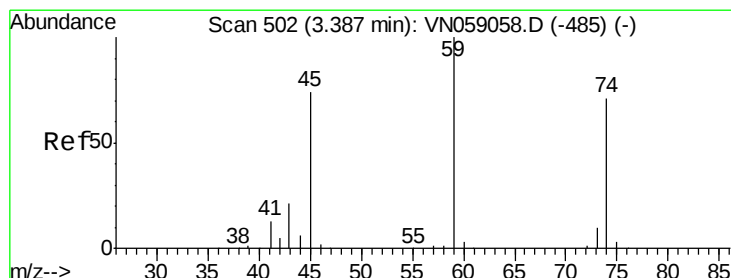
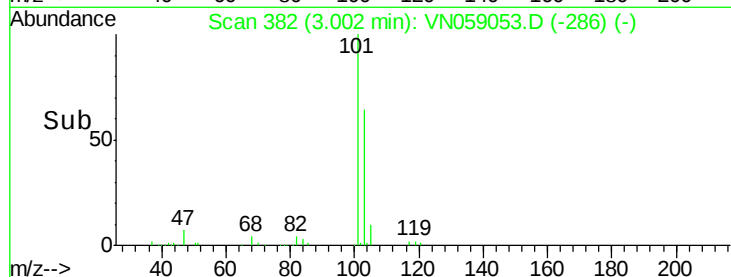
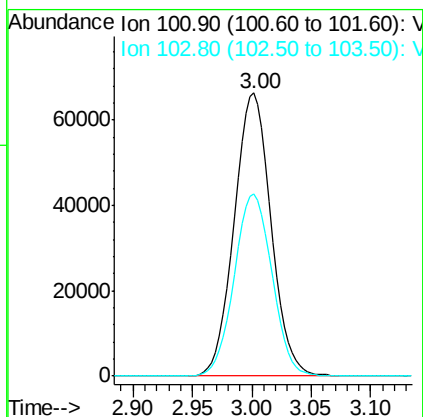
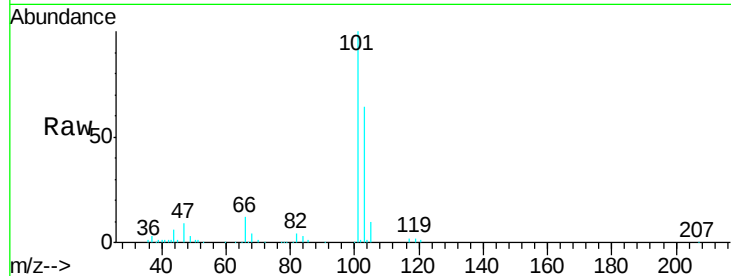
Trichlorofluoromethane
Concen: 19.734 ug/l
RT: 3.00 min Scan# 382
Delta R.T. 0.01 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
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ClientSampleId :
VSTDIC020

Tgt Ion:101 Resp: 142454
Ion Ratio Lower Upper
101 100
103 64.3 51.7 77.5

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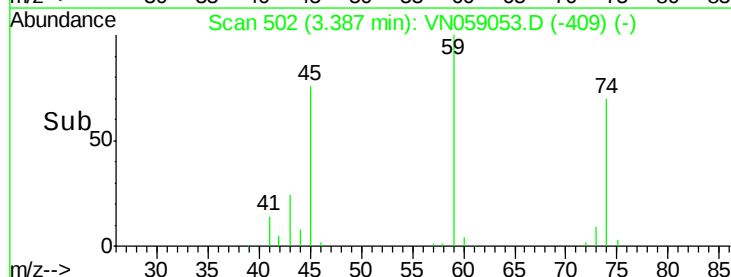
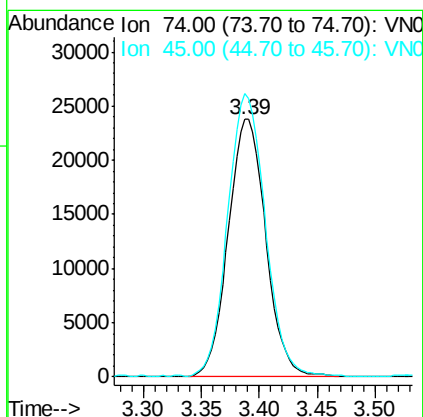
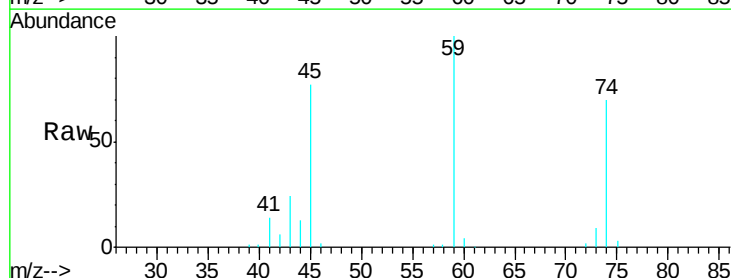
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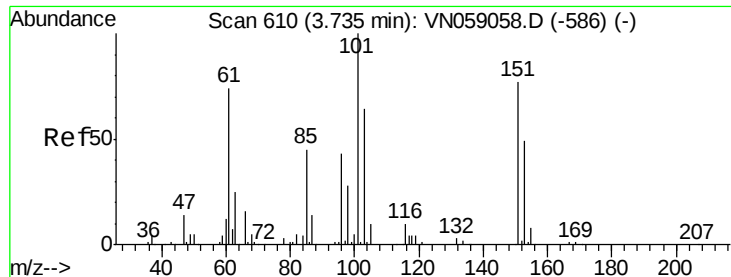


#8

Diethyl Ether
Concen: 20.943 ug/l
RT: 3.39 min Scan# 502
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion: 74 Resp: 53762
Ion Ratio Lower Upper
74 100
45 110.4 52.8 158.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.133 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

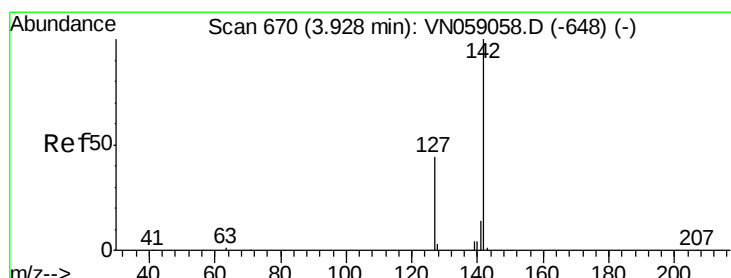
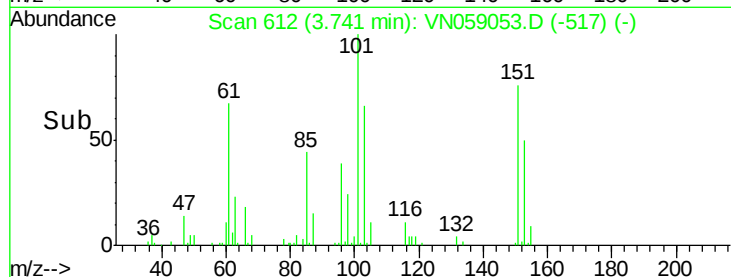
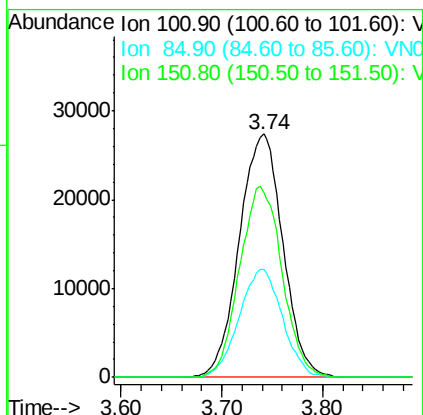
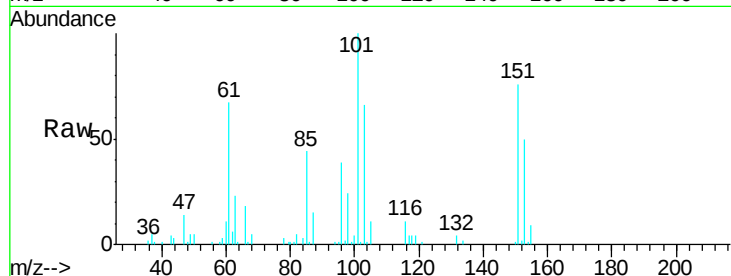
ClientSampleId :

VSTDIC020

Tgt Ion:	101	Resp:	82018
Ion Ratio	Lower	Upper	
101	100		
85	44.2	35.0	52.6
151	76.5	61.3	91.9

Manual Integrations
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#10

Methyl Iodide

Concen: 18.000 ug/l

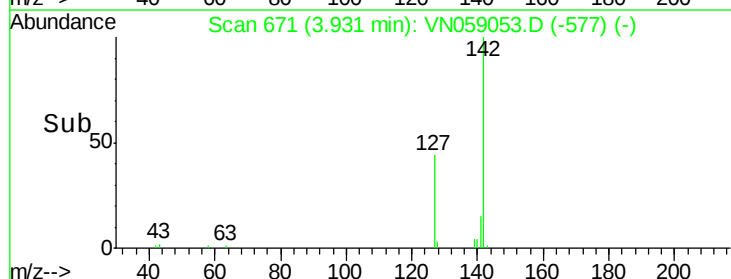
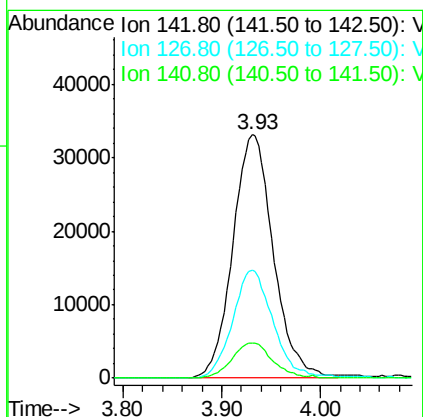
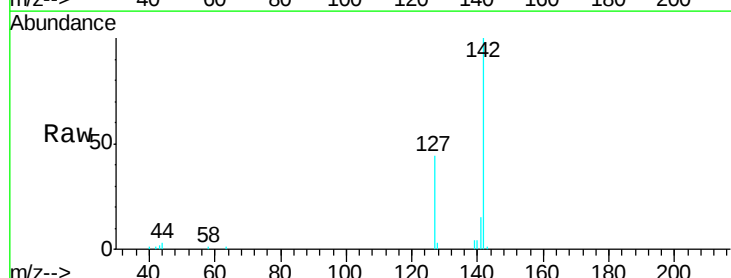
RT: 3.93 min Scan# 671

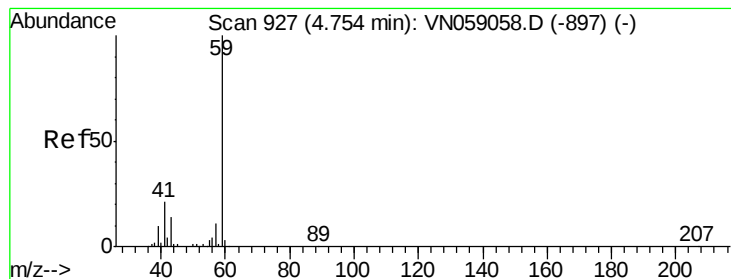
Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Tgt Ion:	142	Resp:	94577
Ion Ratio	Lower	Upper	
142	100		
127	44.5	34.2	51.2
141	14.4	11.1	16.7





#11

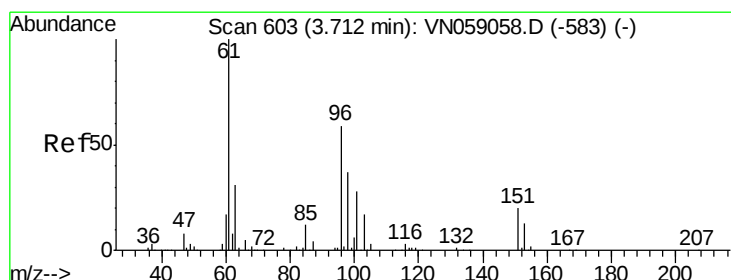
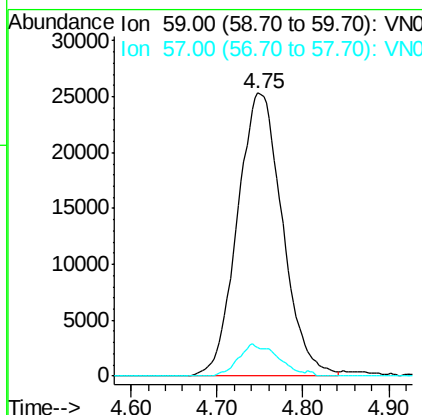
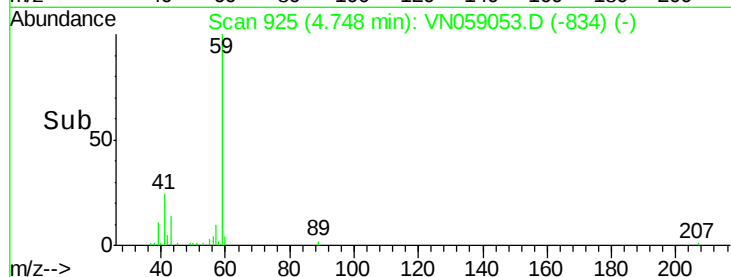
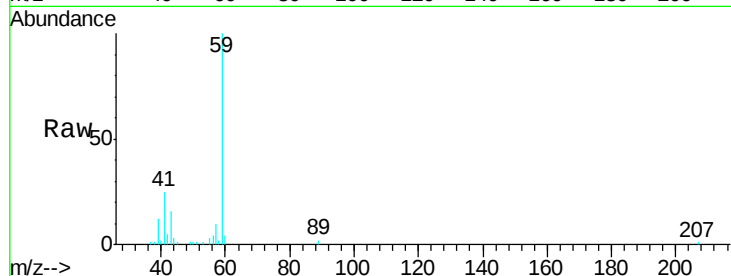
Tert butyl alcohol
Concen: 96.933 ug/l
RT: 4.75 min Scan# 925
Delta R.T. -0.01 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 59 Resp: 92104
Ion Ratio Lower Upper
59 100
57 10.0 8.2 12.4

Manual Integrations
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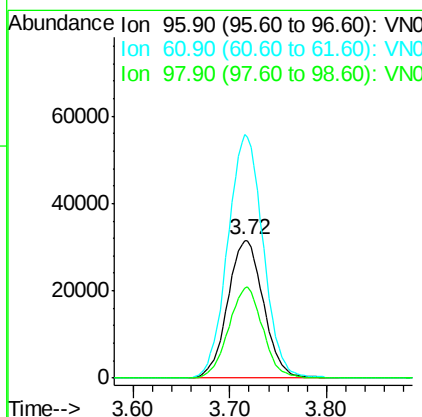
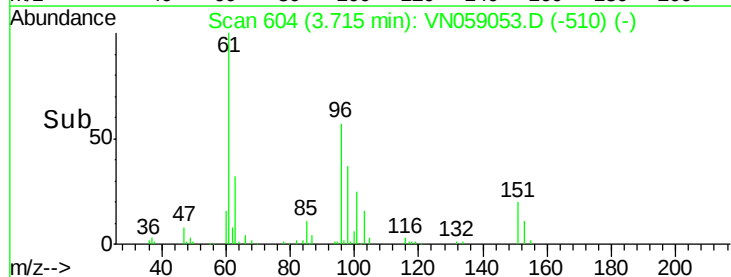
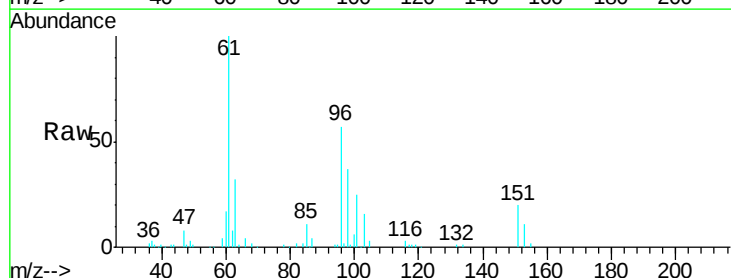
MMDadoda
11/5/2019 1:58:45 PM

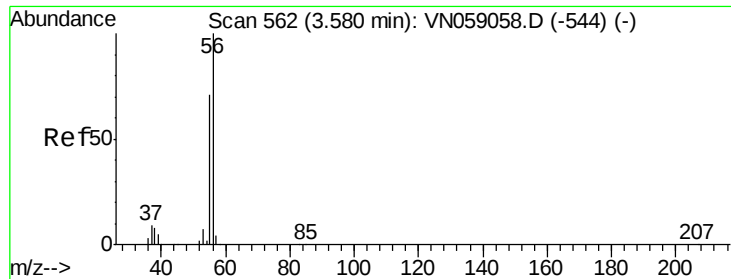


#12

1,1-Dichloroethene
Concen: 21.123 ug/l
RT: 3.72 min Scan# 604
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion: 96 Resp: 80901
Ion Ratio Lower Upper
96 100
61 177.0 135.3 202.9
98 65.6 49.4 74.2





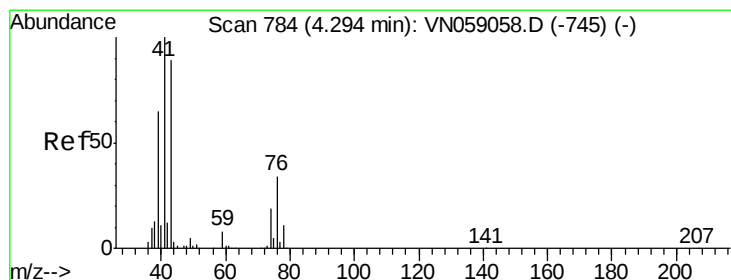
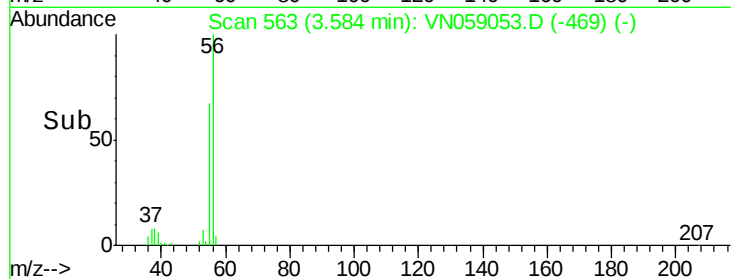
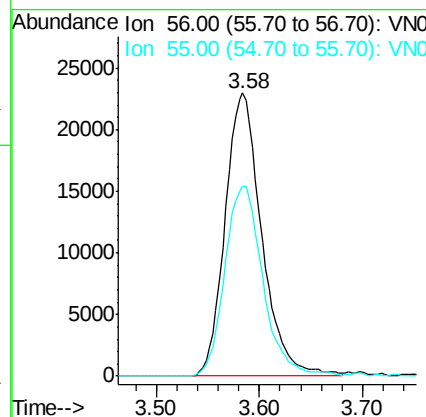
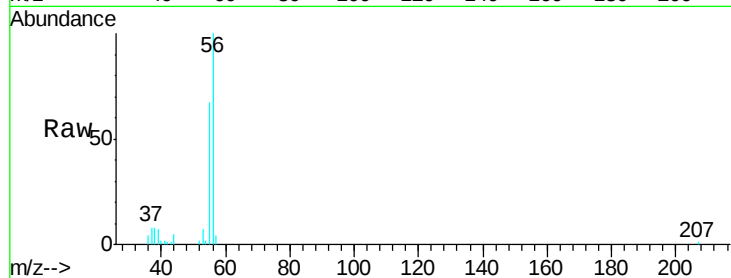
#13
Acrolein
Concen: 88.550 ug/l
RT: 3.58 min Scan# 563
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
56	100		
55	69.1	56.1	84.1

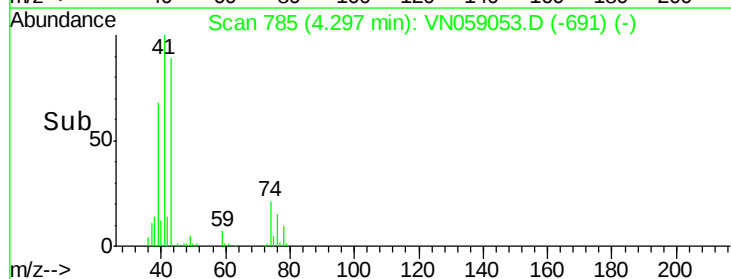
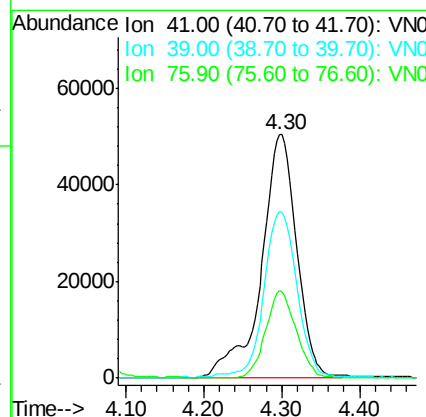
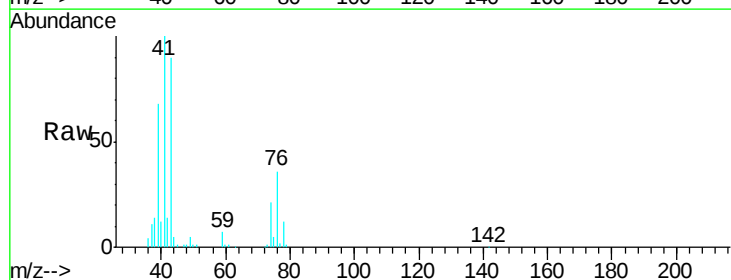
Manual Integrations
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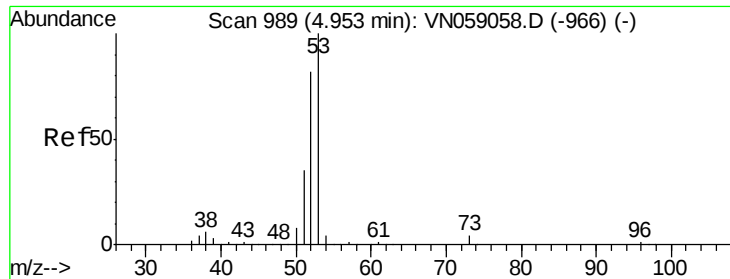
MMDadoda
11/5/2019 1:58:45 PM



#14
Allyl chloride
Concen: 20.528 ug/l m
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Lower	Upper
41	100		
39	63.1	49.4	74.2
76	30.9	24.6	37.0





#15

Acrylonitrile

Concen: 106.715 ug/l

RT: 4.96 min Scan# 990

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

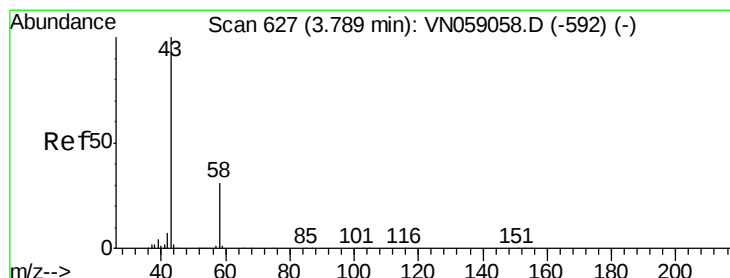
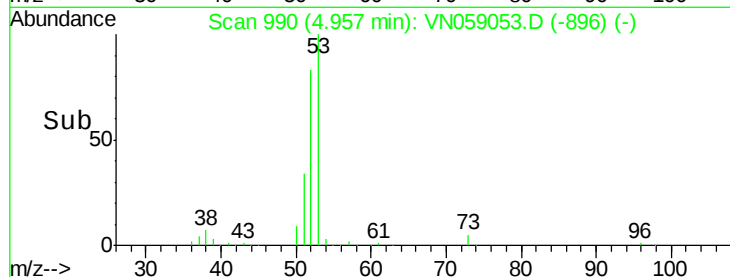
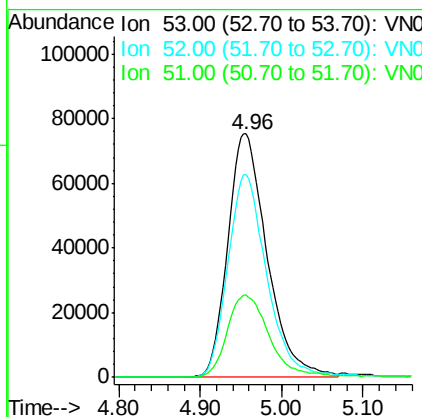
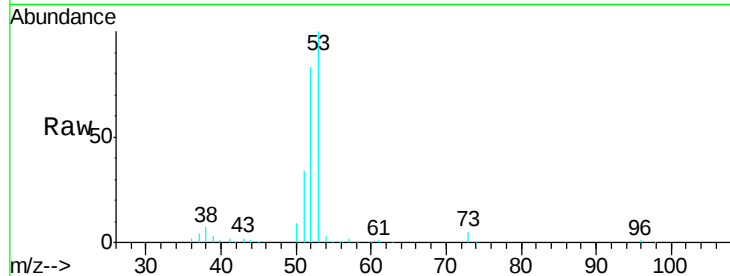
ClientSampleId :

VSTDIC020

Tgt Ion:	53	Resp:	253310
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.0	99.0
51	36.0	28.3	42.5

Manual Integrations
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#16

Acetone

Concen: 107.136 ug/l

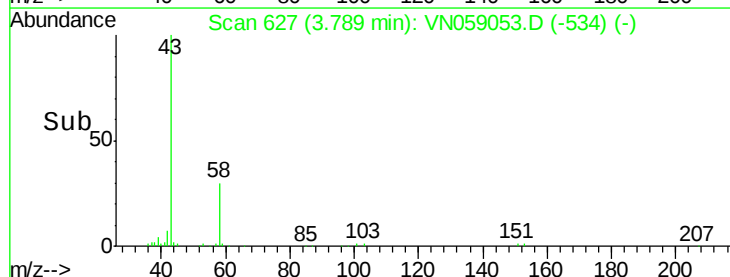
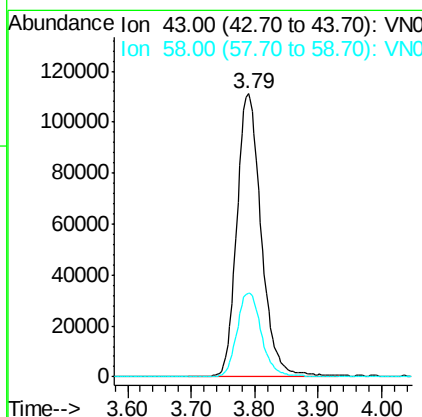
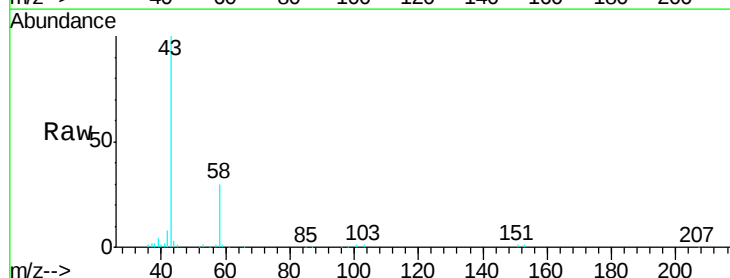
RT: 3.79 min Scan# 627

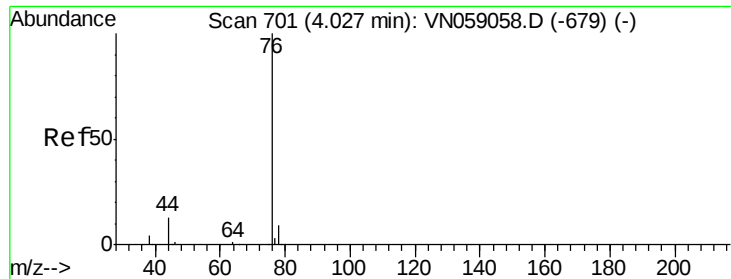
Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Tgt Ion:	43	Resp:	296888
Ion	Ratio	Lower	Upper
43	100		
58	29.6	25.0	37.6





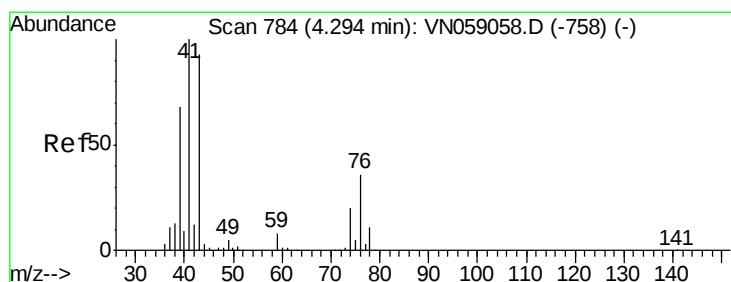
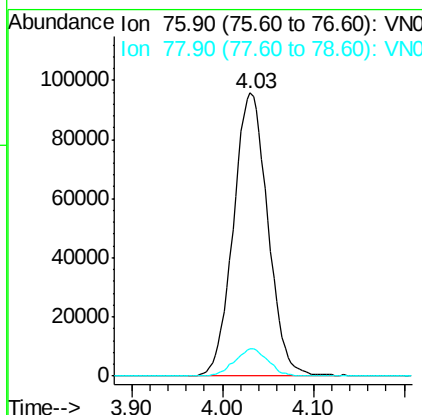
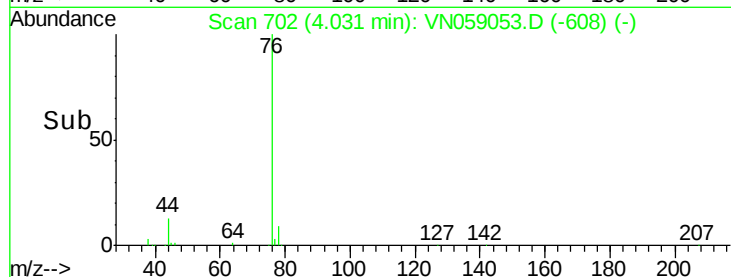
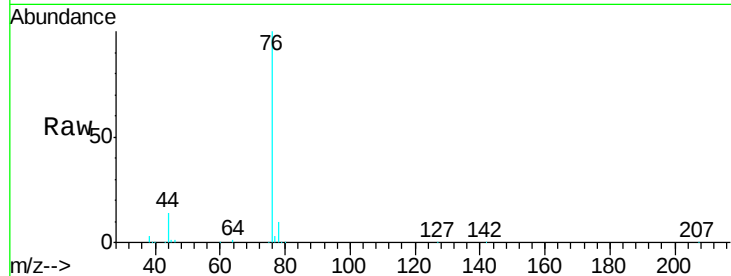
#17
Carbon Disulfide
Concen: 20.495 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tgt Ion: 76 Resp: 251710
Ion Ratio Lower Upper
76 100
78 9.8 7.0 10.6

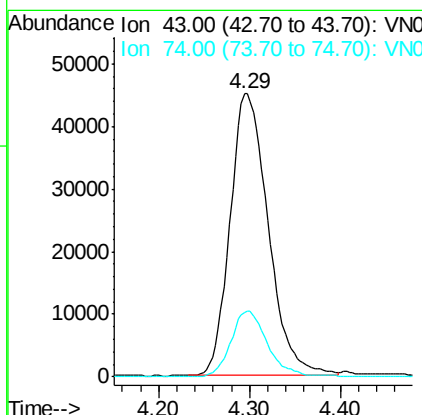
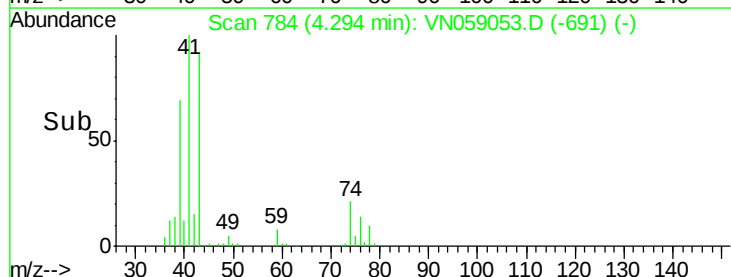
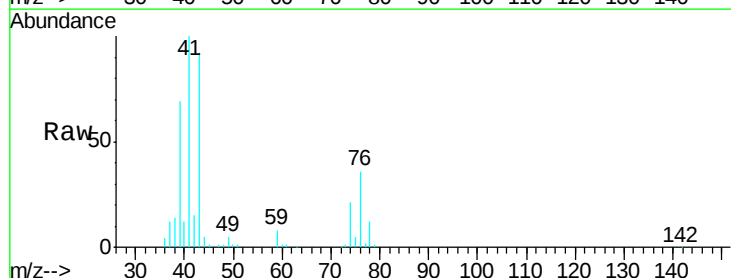
Manual Integrations
APPROVED

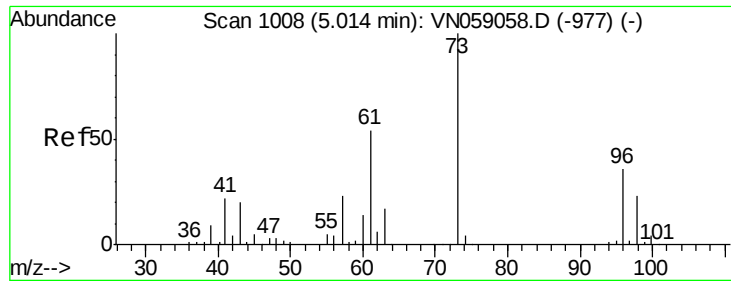
MMDadoda
11/5/2019 1:58:45 PM



#18
Methyl Acetate
Concen: 20.484 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion: 43 Resp: 131412
Ion Ratio Lower Upper
43 100
74 22.6 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 20.635 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tgt Ion: 73 Resp: 274994

Ion Ratio Lower Upper

73 100

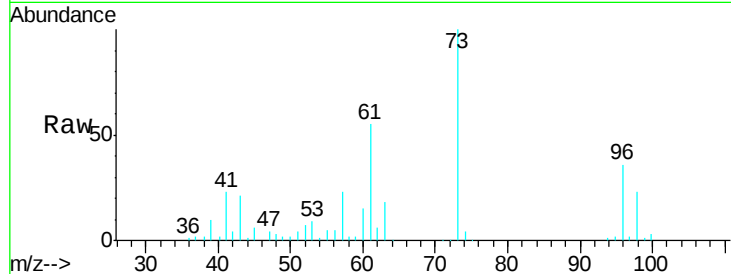
57 23.4 18.4 27.6

Manual Integrations

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Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

80000

60000

40000

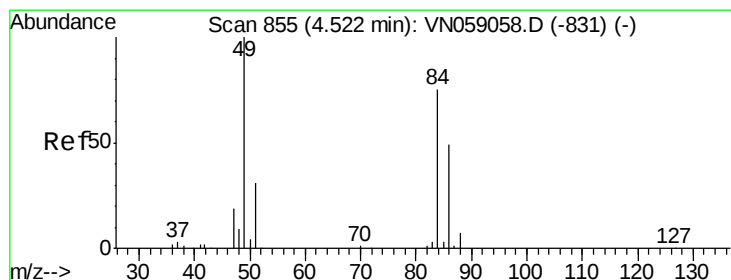
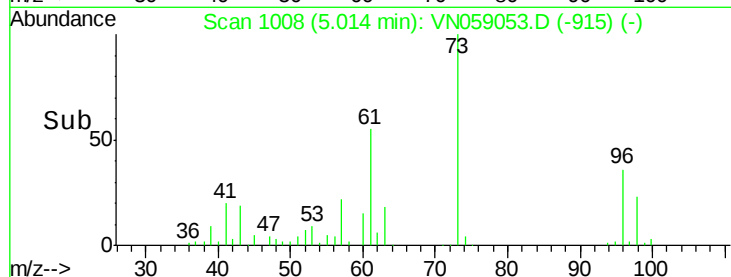
20000

0

Time-->

4.90 5.00 5.10

5.01



#20

Methylene Chloride

Concen: 19.343 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Tgt Ion: 84 Resp: 92778

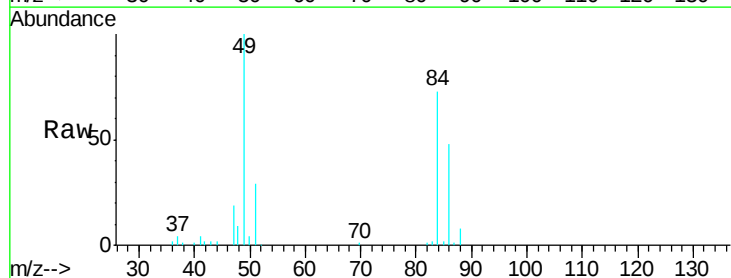
Ion Ratio Lower Upper

84 100

49 137.0 106.4 159.6

51 39.7 33.0 49.4

86 66.2 52.0 78.0



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

60000

50000

40000

30000

20000

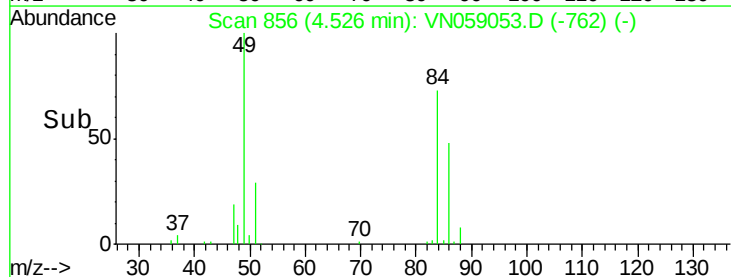
10000

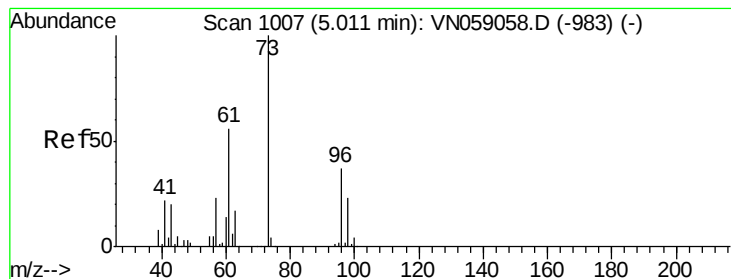
0

Time-->

4.40 4.50 4.60 4.70

4.53





#21

trans-1,2-Dichloroethene

Concen: 20.185 ug/l

RT: 5.02 min Scan# 1009

Delta R.T. 0.01 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 96 Resp: 84970

Ion Ratio Lower Upper

96 100

61 150.3 121.7 182.5

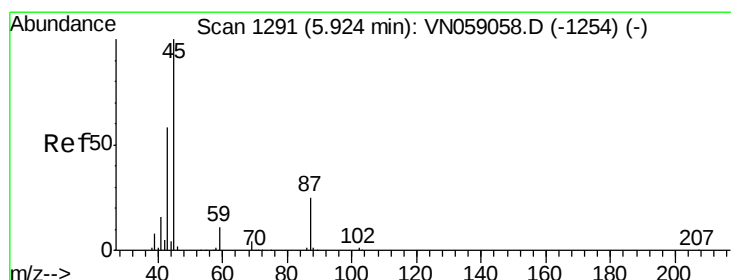
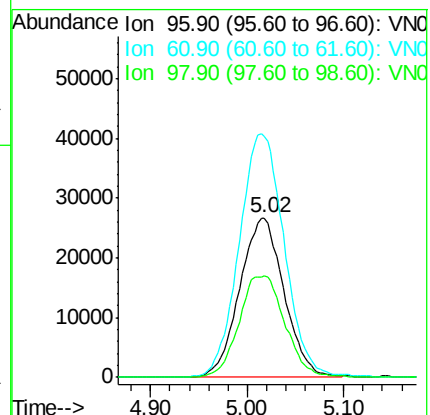
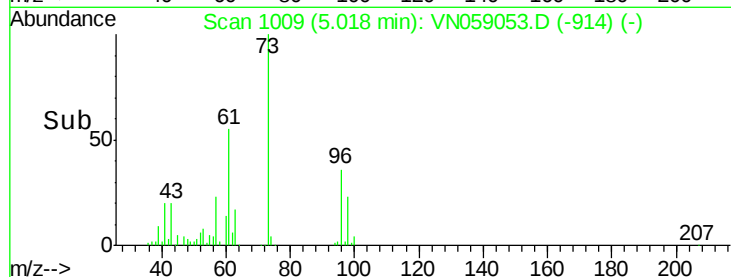
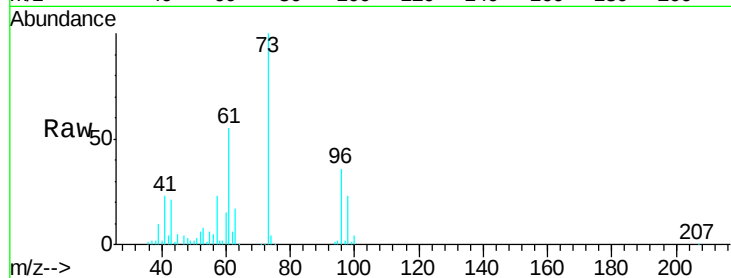
98 63.7 50.6 76.0

Manual Integrations

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11/5/2019 1:58:45 PM



#22

Diisopropyl ether

Concen: 20.814 ug/l

RT: 5.92 min Scan# 1291

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Tgt Ion: 45 Resp: 313170

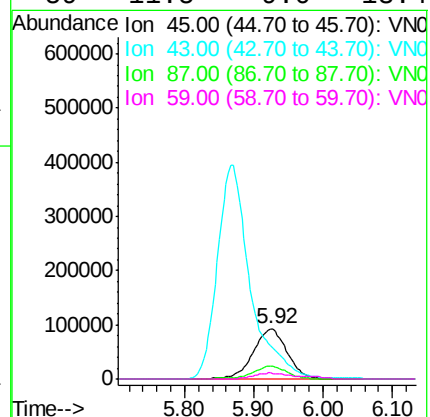
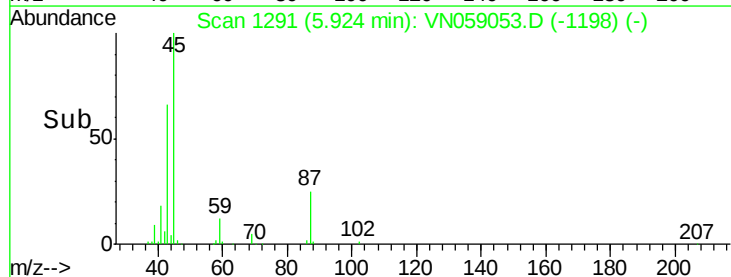
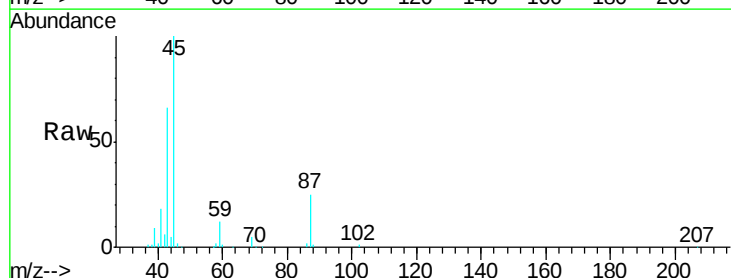
Ion Ratio Lower Upper

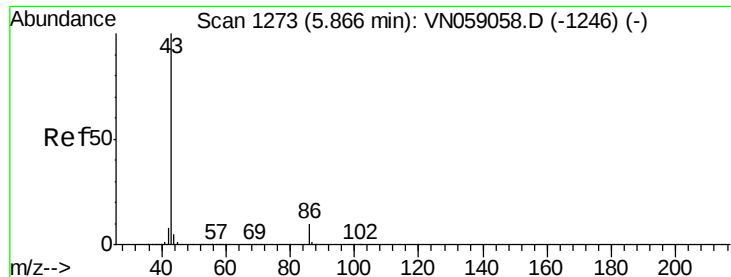
45 100

43 64.4 46.9 70.3

87 25.3 20.1 30.1

59 11.5 9.0 13.4





#23

Vinyl Acetate

Concen: 108.901 ug/l

RT: 5.87 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 1309716

Ion Ratio Lower Upper

43 100

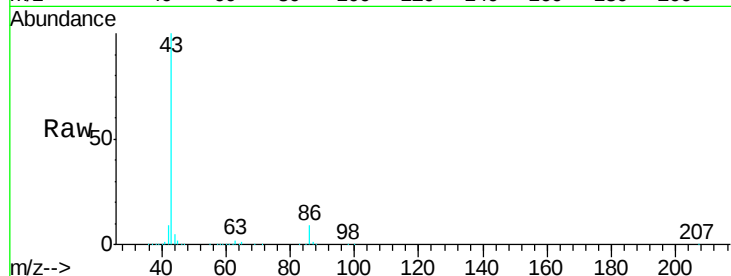
86 9.2 7.6 11.4

Manual Integrations

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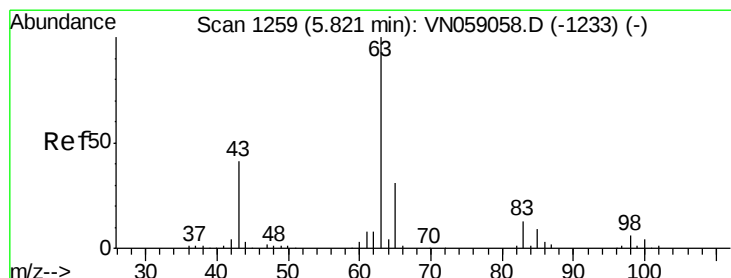
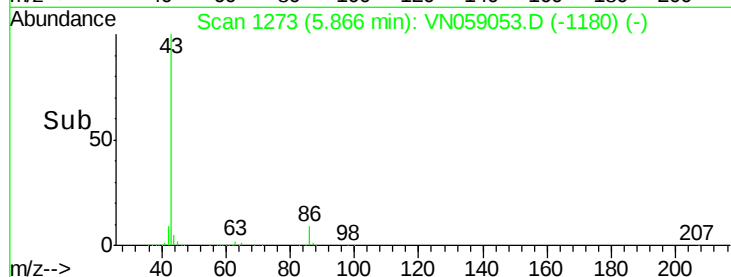
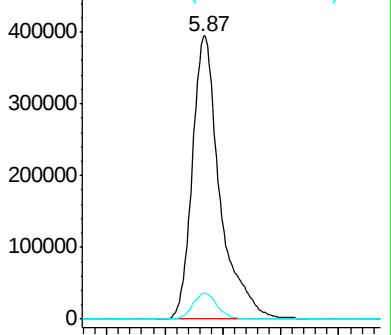
MMDadoda

11/5/2019 1:58:45 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 20.062 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

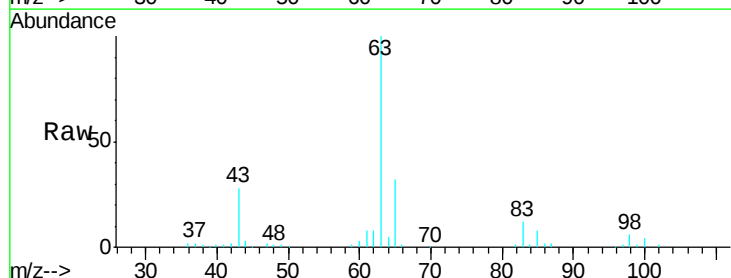
Tgt Ion: 63 Resp: 175043

Ion Ratio Lower Upper

63 100

98 5.7 3.2 9.6

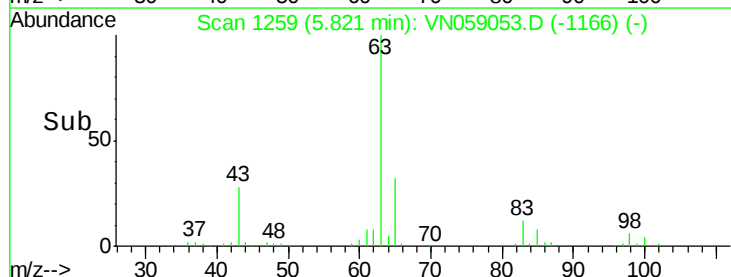
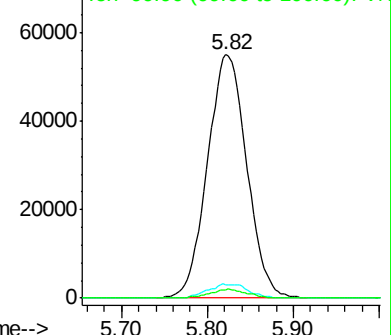
100 3.6 2.0 6.0

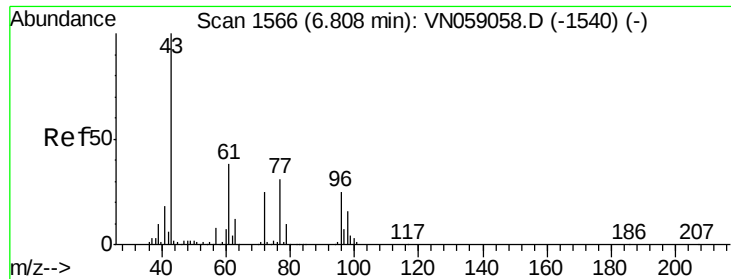


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





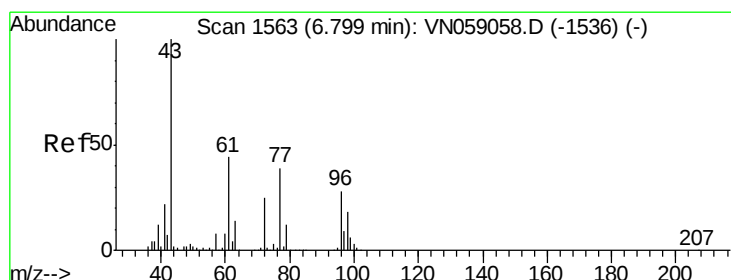
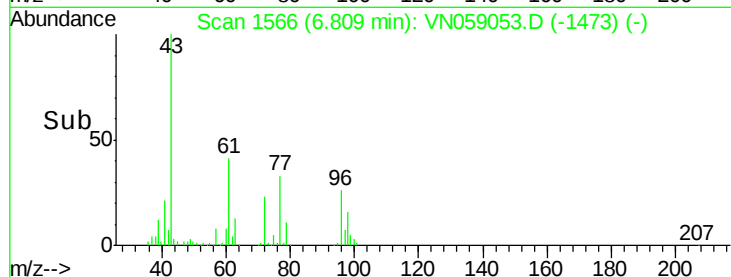
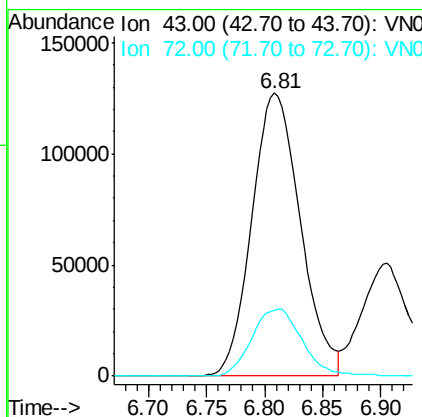
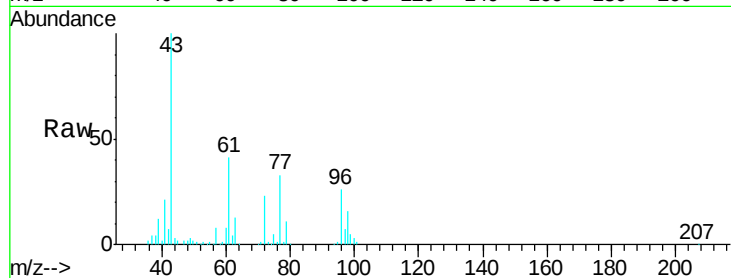
#25
2-Butanone
Concen: 102.254 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tgt Ion: 43 Resp: 370173
Ion Ratio Lower Upper
43 100
72 23.5 19.9 29.9

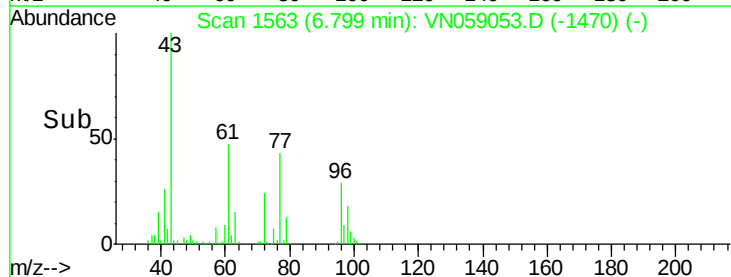
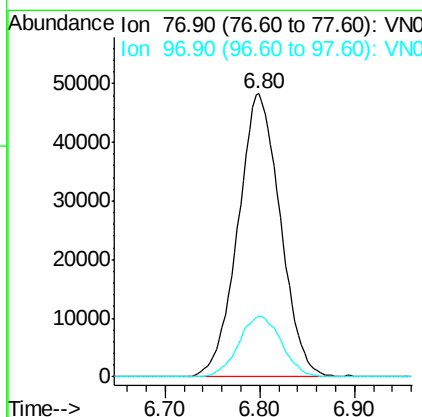
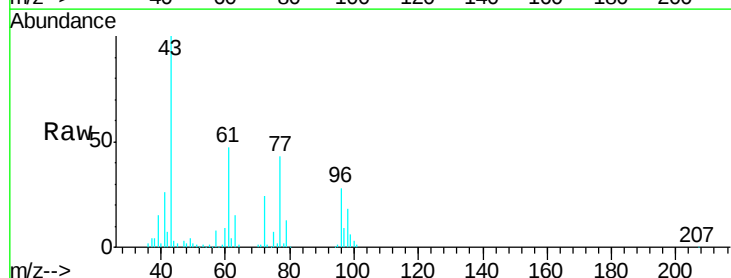
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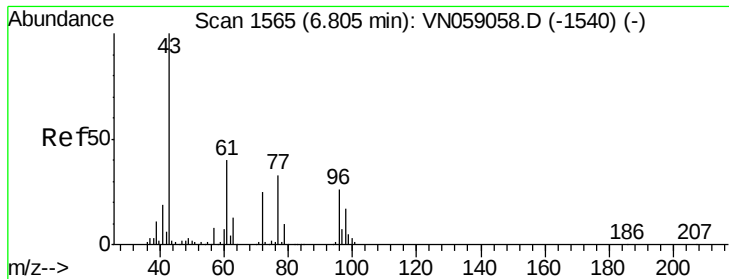
MMDadoda
11/5/2019 1:58:45 PM



#26
2,2-Dichloropropane
Concen: 19.956 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion: 77 Resp: 150050
Ion Ratio Lower Upper
77 100
97 21.6 10.9 32.9





#27

cis-1,2-Dichloroethene

Concen: 20.161 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059053.D

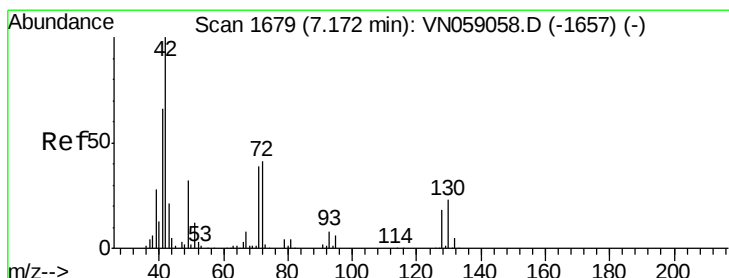
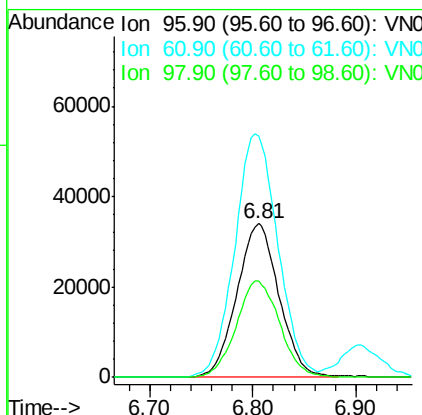
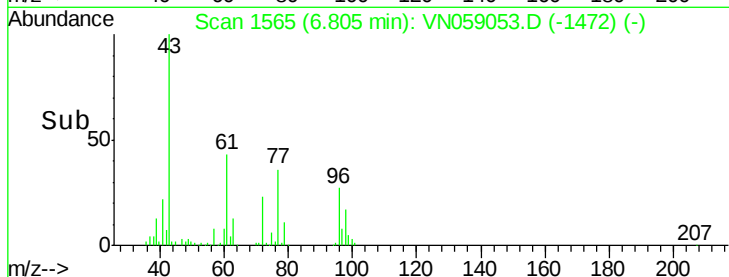
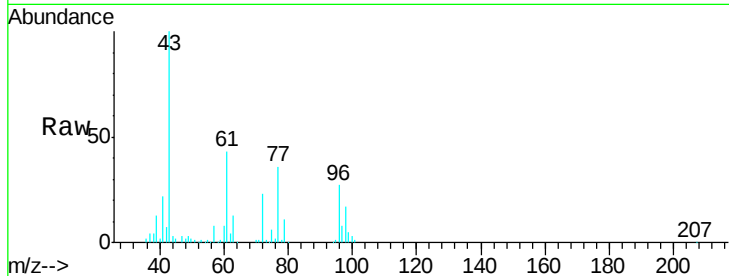
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	96764		
61	162.1	0.0	316.4	
98	64.6	0.0	128.2	

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11/5/2019 1:58:45 PM



#28

Bromochloromethane

Concen: 16.932 ug/l

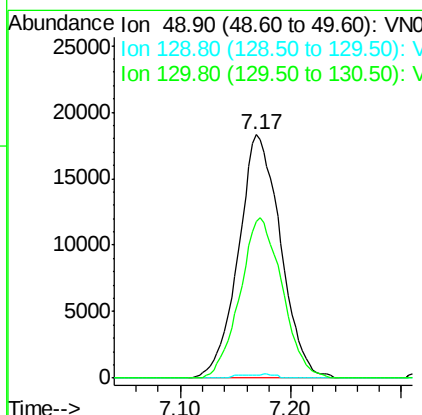
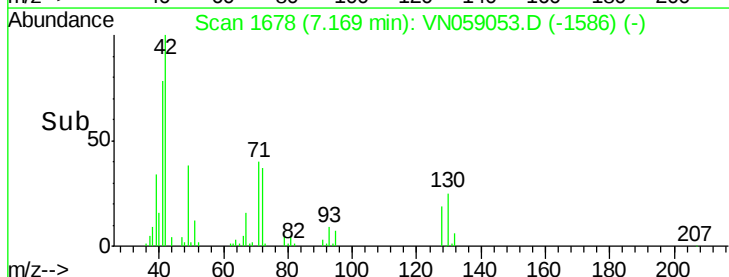
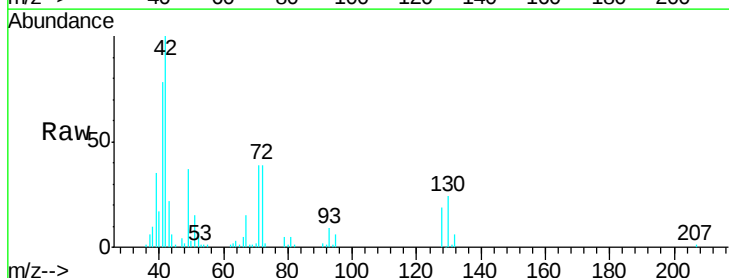
RT: 7.17 min Scan# 1678

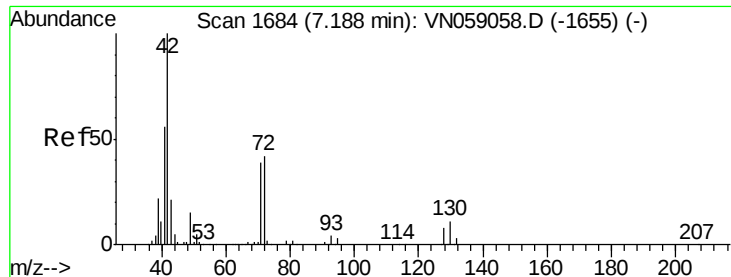
Delta R.T. -0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	48463		
129	0.7	0.0	3.4	
130	65.8	55.0	82.6	





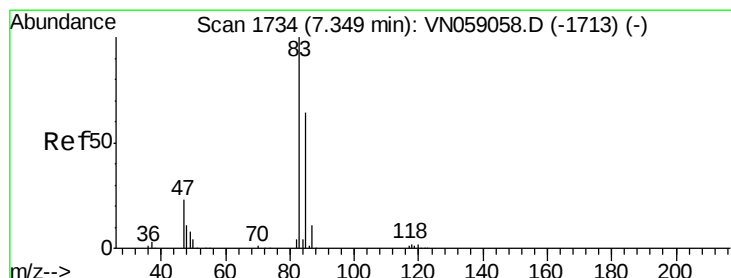
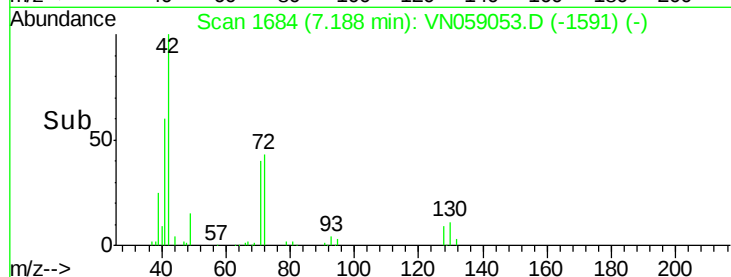
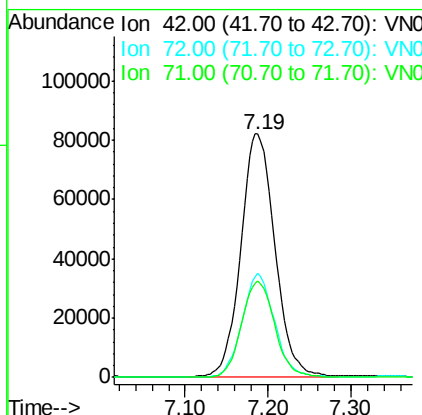
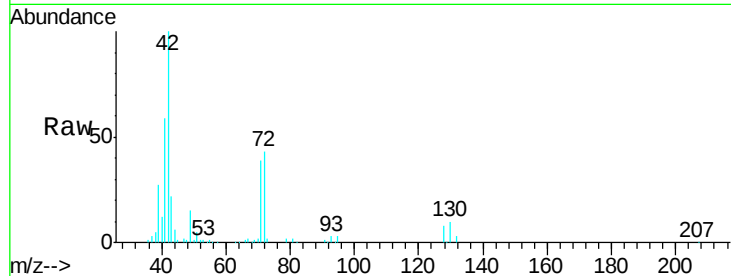
#29
Tetrahydrofuran
Concen: 106.273 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
42	100		
72	40.3	32.7	49.1
71	38.2	31.2	46.8

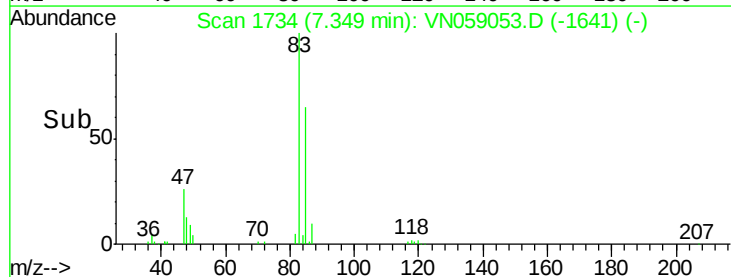
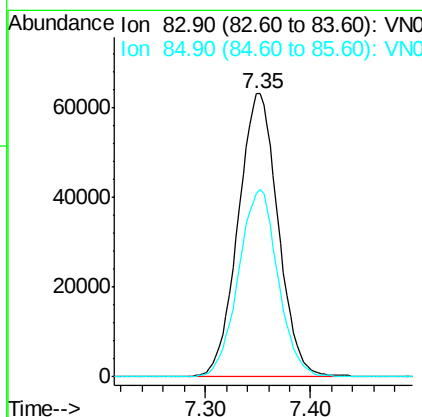
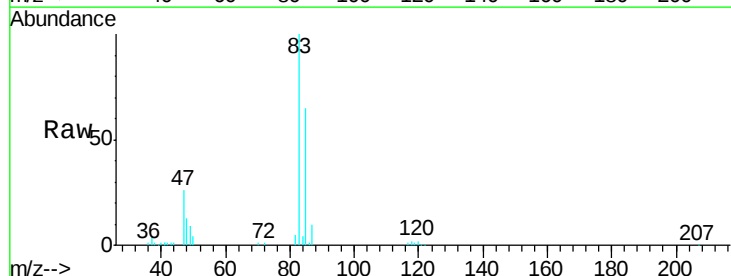
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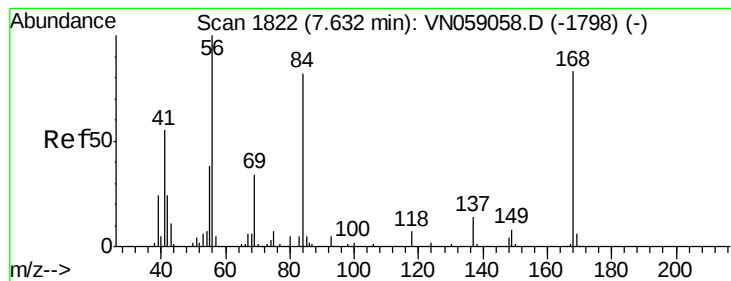
MMDadoda
11/5/2019 1:58:45 PM



#30
Chloroform
Concen: 19.082 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.9	76.3





#31

Cyclohexane

Concen: 19.886 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 161352
Ion Ratio Lower Upper

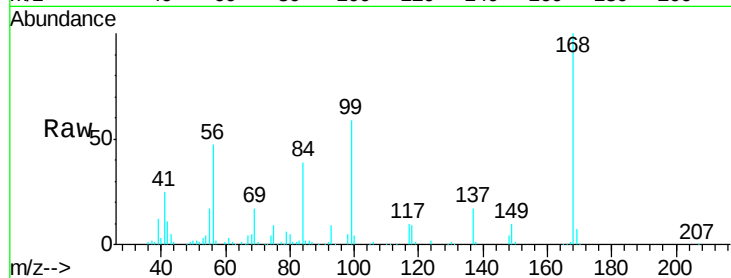
56 100

69 36.7 27.2 40.8

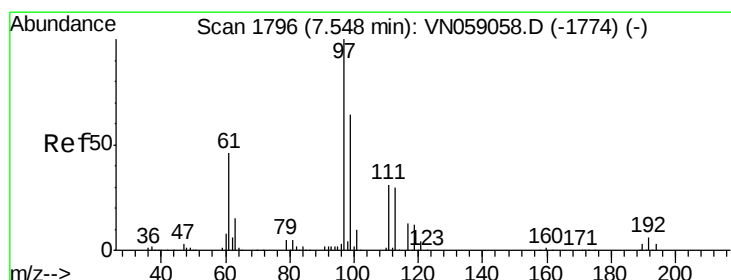
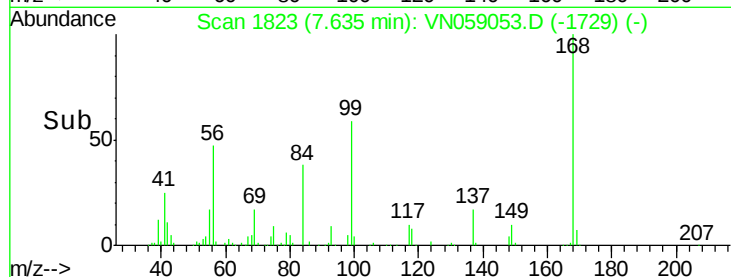
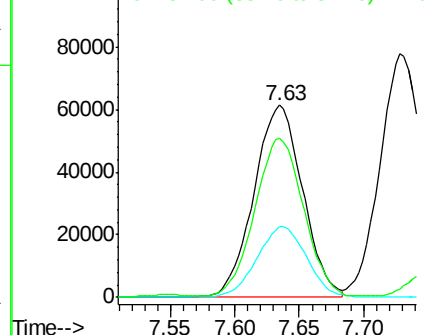
84 81.8 65.2 97.8

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Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 19.491 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN059053.D

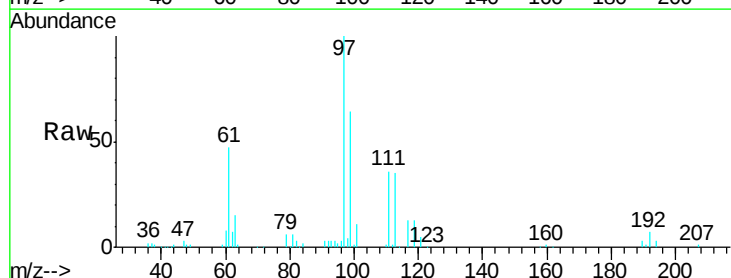
Acq: 1 Nov 2019 11:09

Tgt Ion: 97 Resp: 142491
Ion Ratio Lower Upper

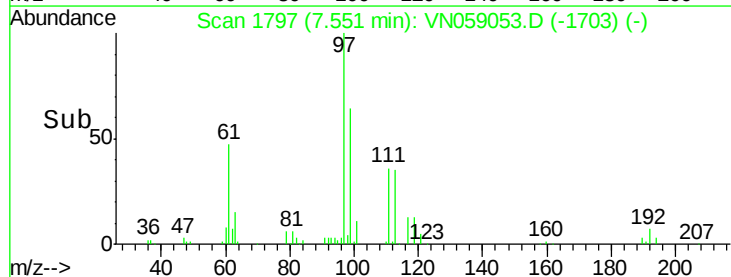
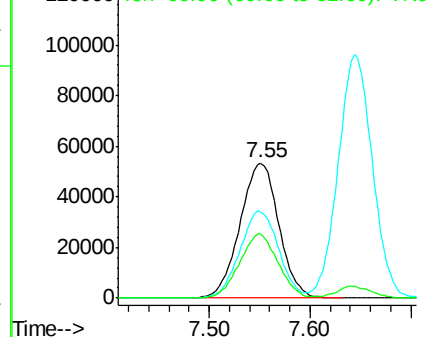
97 100

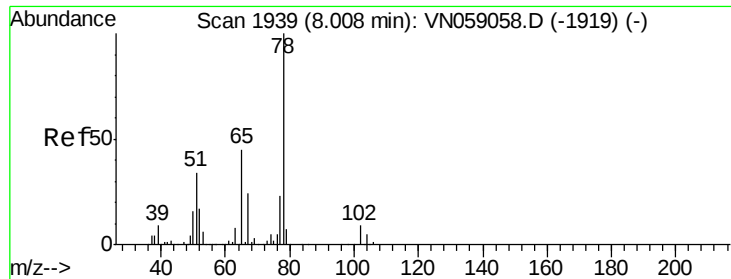
99 64.4 50.7 76.1

61 46.9 36.3 54.5



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





#33

1,2-Dichloroethane-d4

Concen: 20.892 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 117442

Ion Ratio Lower Upper

65 100

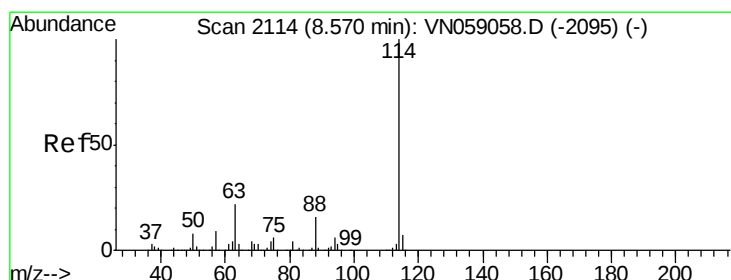
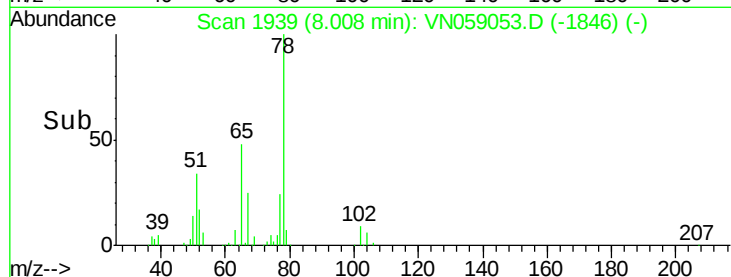
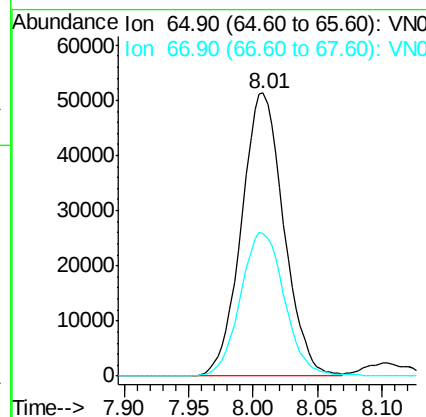
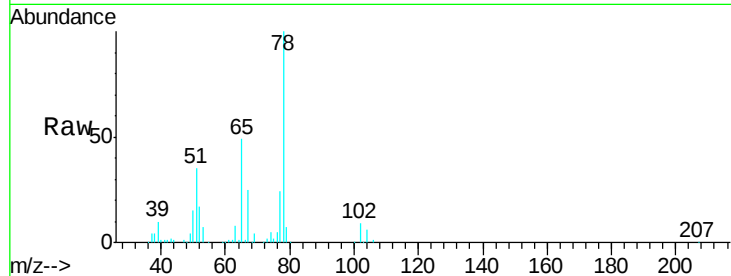
67 52.9 0.0 107.6

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11/5/2019 1:58:45 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

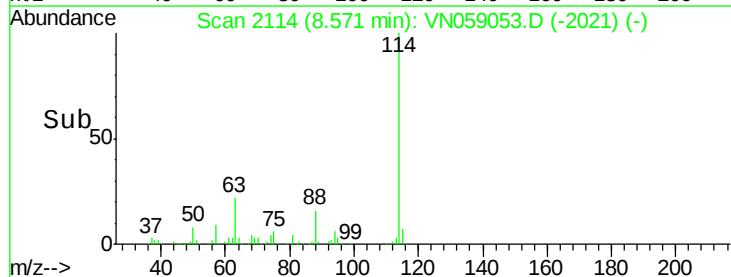
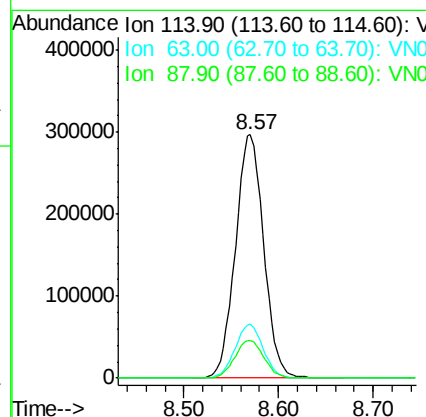
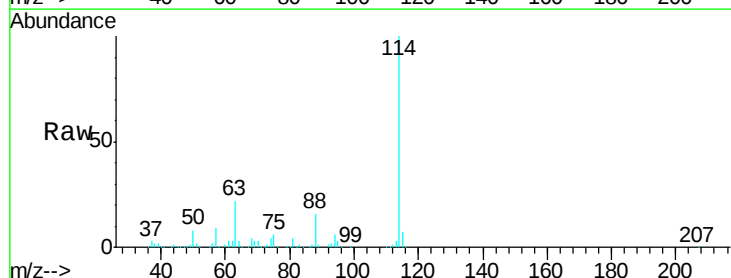
Tgt Ion: 114 Resp: 616375

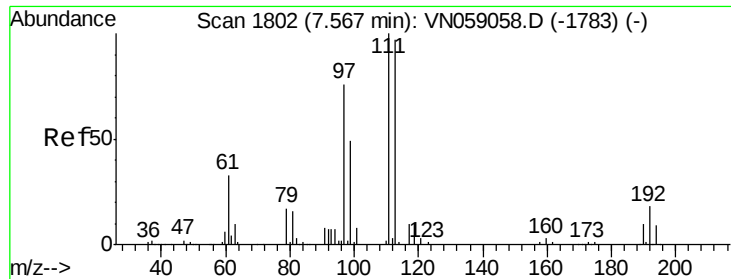
Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.2

88 15.6 0.0 33.0





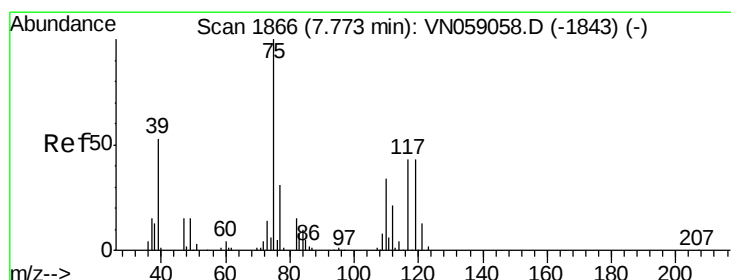
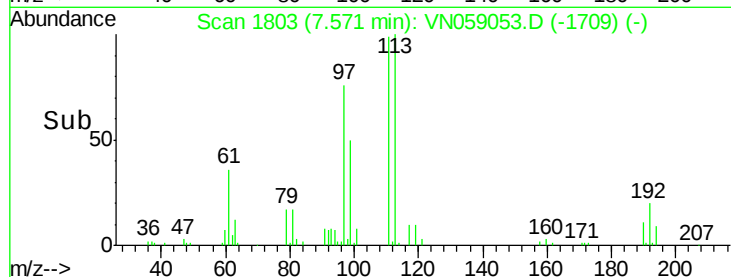
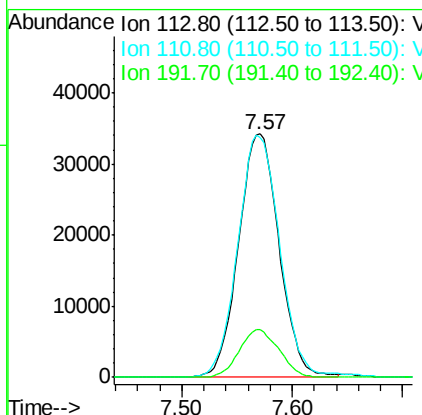
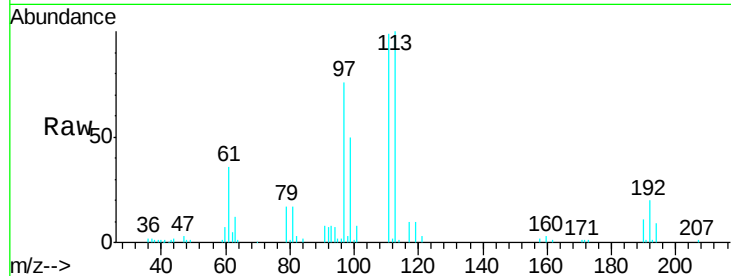
#35
 Dibromofluoromethane
 Concen: 21.606 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059053.D
 Acq: 1 Nov 2019 11:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	87234		
111	103.2	82.9	124.3	
192	19.1	15.9	23.9	

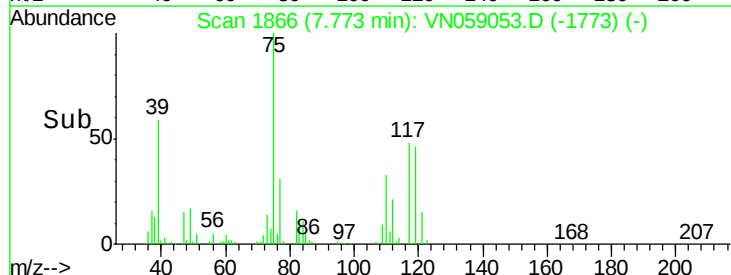
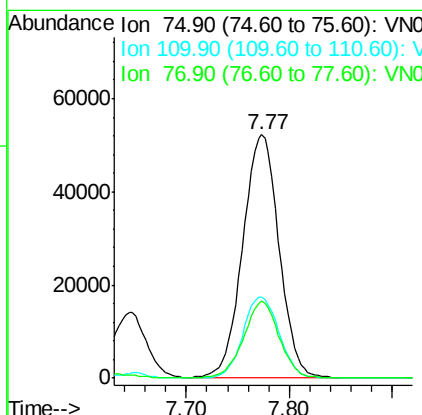
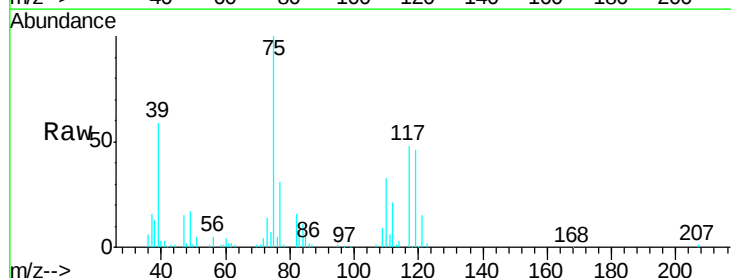
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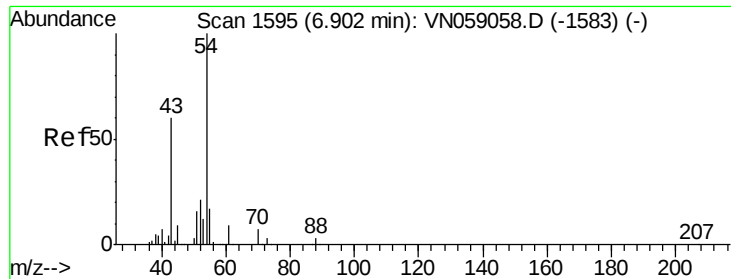
MMDadoda
 11/5/2019 1:58:45 PM



#36
 1,1-Dichloropropene
 Concen: 20.651 ug/l
 RT: 7.77 min Scan# 1866
 Delta R.T. 0.00 min
 Lab File: VN059053.D
 Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	128172		
110	33.2	16.9	50.6	
77	30.9	25.0	37.4	





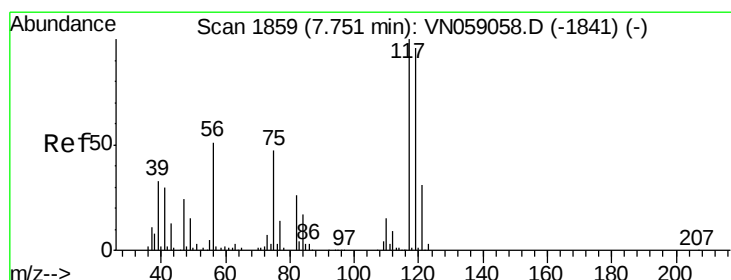
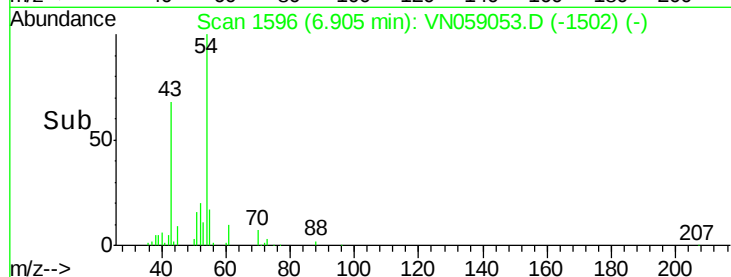
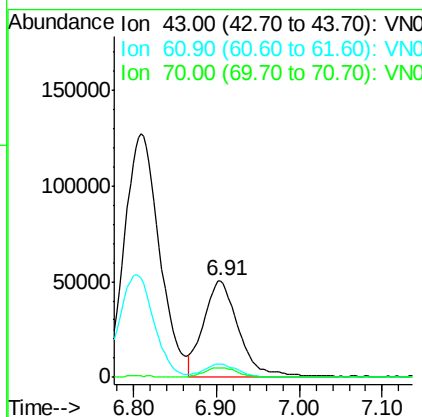
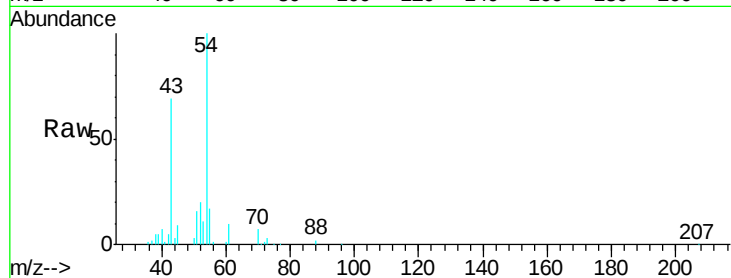
#37
Ethyl Acetate
Concen: 21.700 ug/l
RT: 6.91 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.2	16.8
70	9.9	8.0	12.0

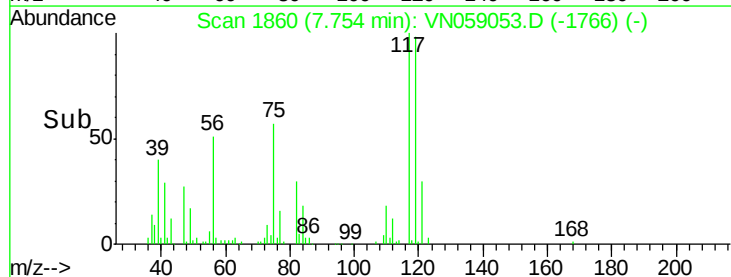
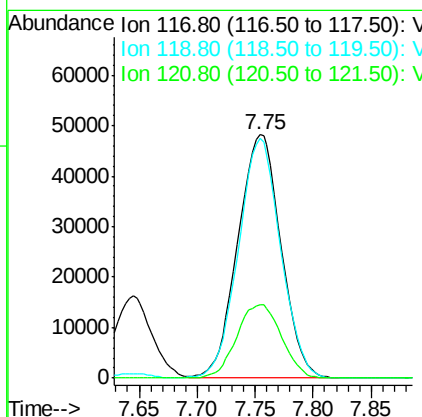
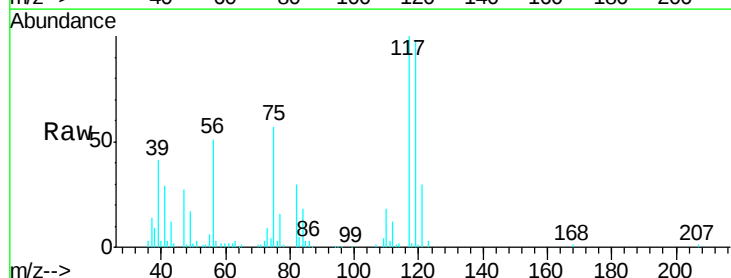
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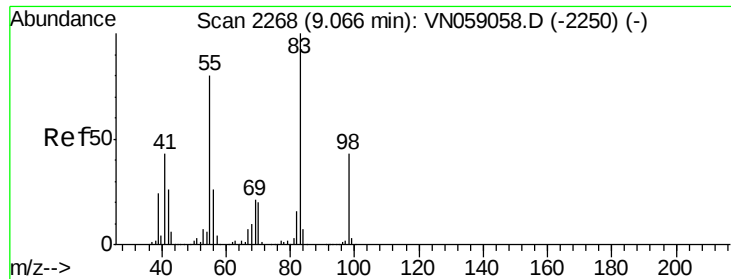
MMDadoda
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#38
Carbon Tetrachloride
Concen: 19.556 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.9	76.6	114.8
121	30.2	24.6	37.0





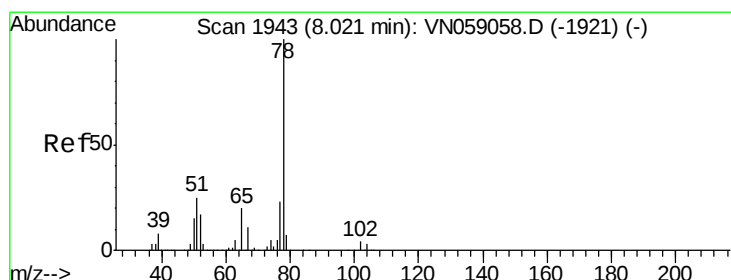
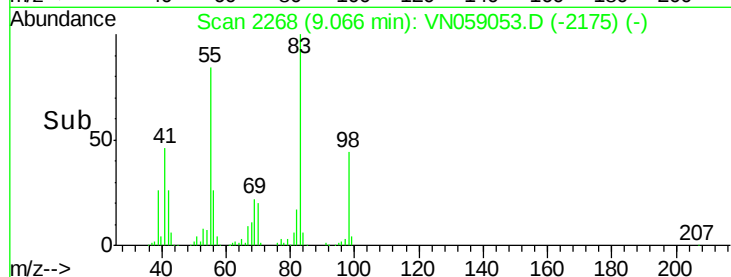
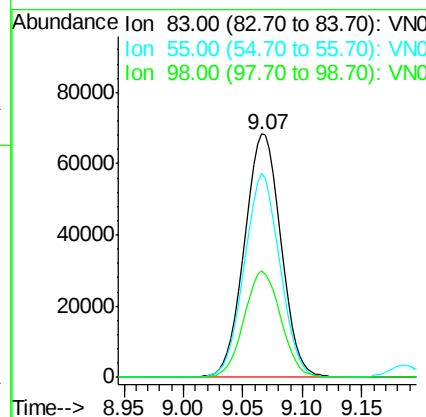
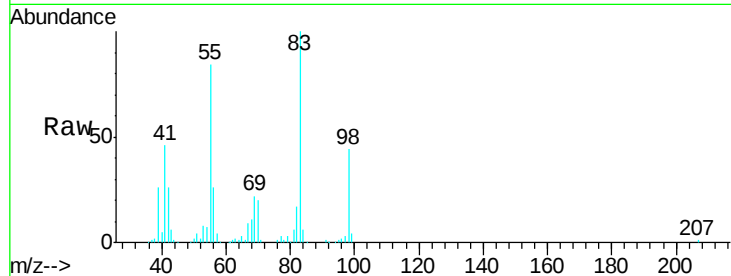
#39
Methylcyclohexane
Concen: 20.722 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp Lower	Upper
83	100		
55	84.0	64.1	96.1
98	43.8	34.3	51.5

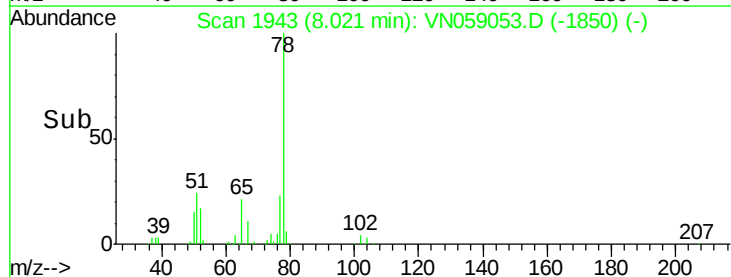
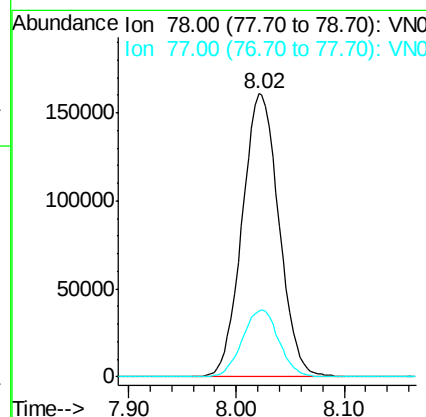
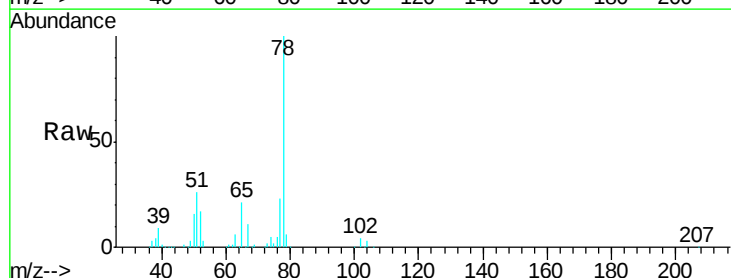
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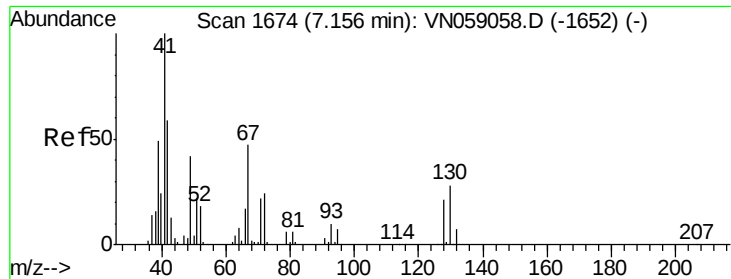
MMDadoda
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#40
Benzene
Concen: 20.840 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Resp Lower	Upper
78	100		
77	23.3	18.6	27.8





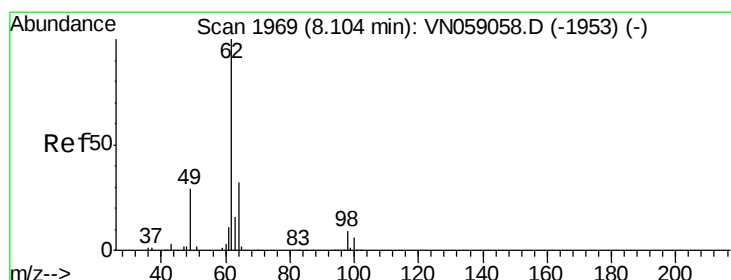
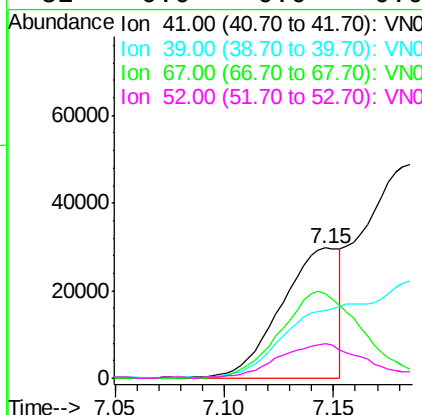
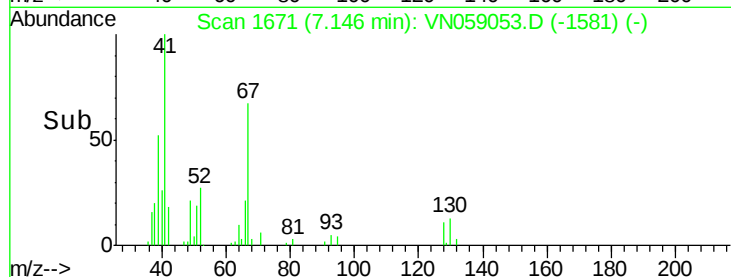
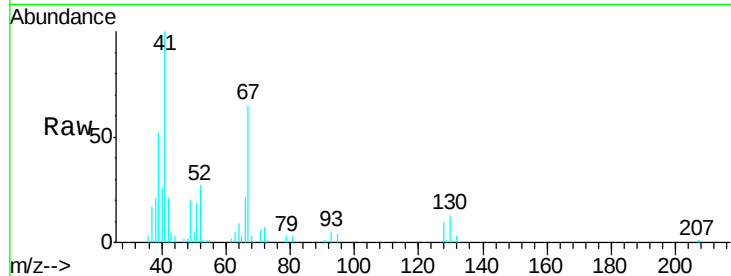
#41
Methacrylonitrile
Concen: 17.991 ug/l m
RT: 7.15 min Scan# 1671
Delta R.T. -0.01 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
41	100		
39	174.5	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

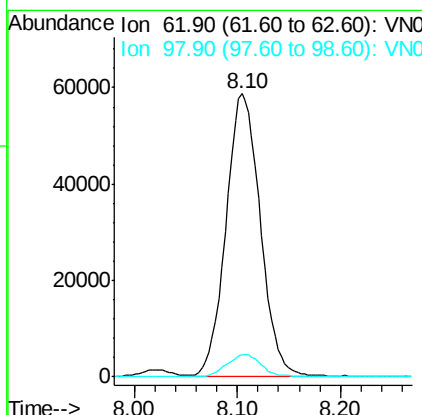
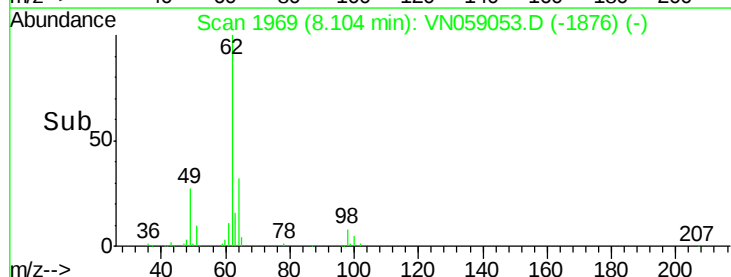
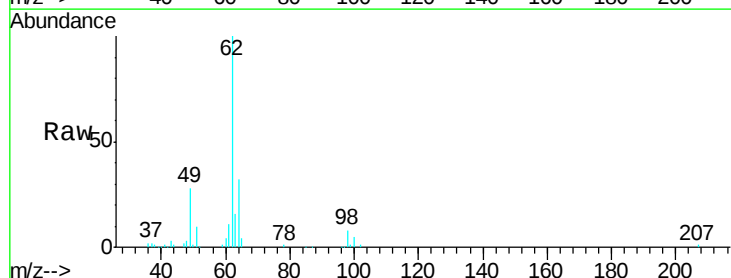
Manual Integrations
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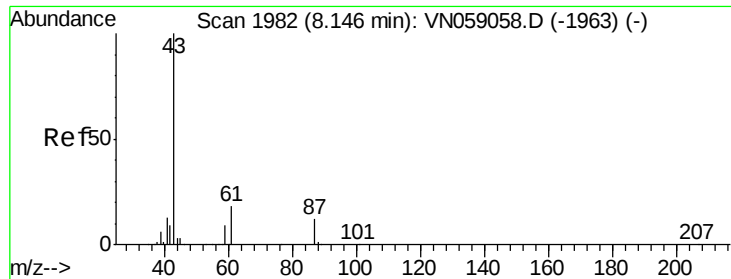
MMDadoda
11/5/2019 1:58:45 PM



#42
1,2-Dichloroethane
Concen: 19.505 ug/l
RT: 8.10 min Scan# 1969
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	18.0





#43

Isopropyl Acetate

Concen: 20.264 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

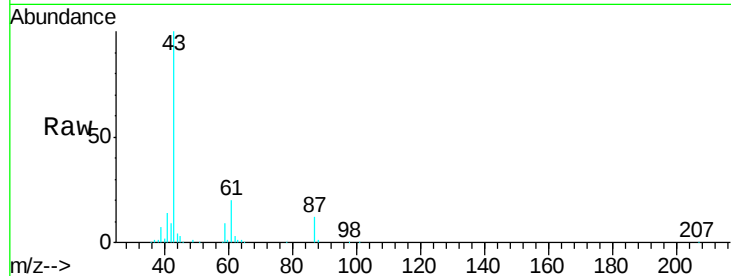
ClientSampleId :

VSTDIC020

Tgt Ion:	43	Resp:	220633
Ion	Ratio	Lower	Upper
43	100		
61	26.5	20.5	30.7
87	12.2	9.8	14.8

Manual Integrations
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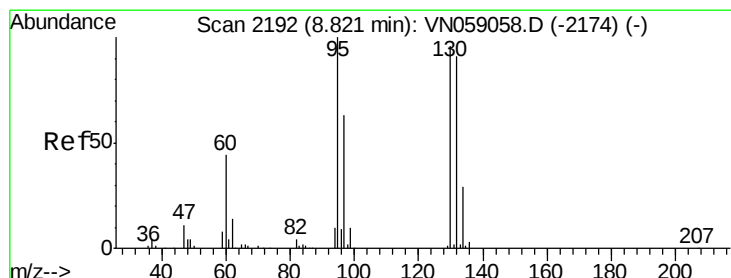
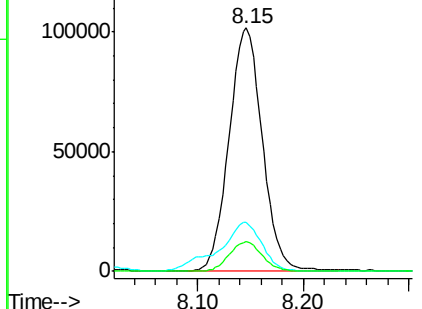
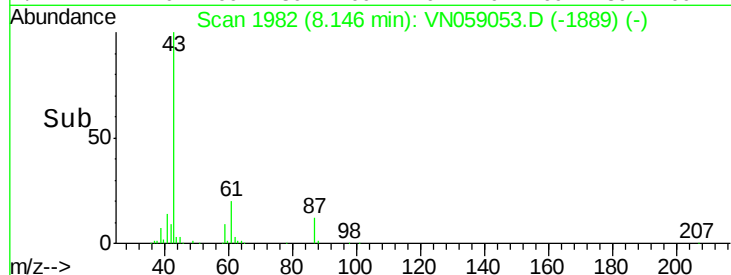


Abundance Ion 43.00 (42.70 to 43.70): VN059058.D (-1963) (-)

Ion 61.00 (60.70 to 61.70): VN059058.D (-1963) (-)

Ion 87.00 (86.70 to 87.70): VN059058.D (-1963) (-)

Time-->



#44

Trichloroethene

Concen: 20.681 ug/l

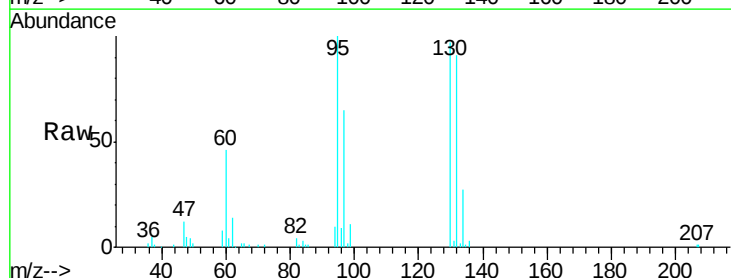
RT: 8.82 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

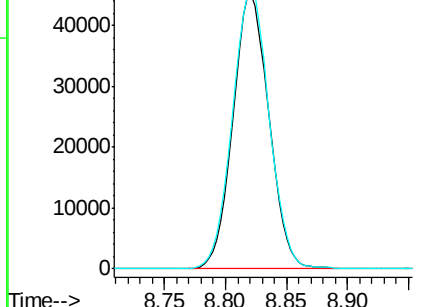
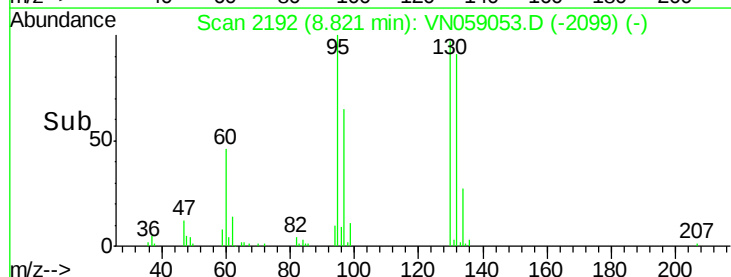
Tgt Ion:	130	Resp:	92413
Ion	Ratio	Lower	Upper
130	100		
95	103.2	0.0	207.6

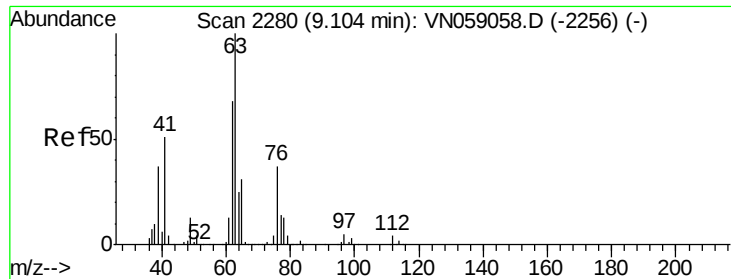


Abundance Ion 129.80 (129.50 to 130.50): VN059058.D (-2174) (-)

Ion 94.90 (94.60 to 95.60): VN059058.D (-2174) (-)

Time-->





#45

1,2-Dichloropropane

Concen: 20.680 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 103719

Ion Ratio Lower Upper

63 100

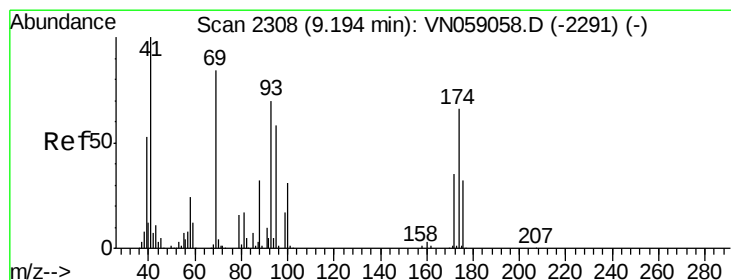
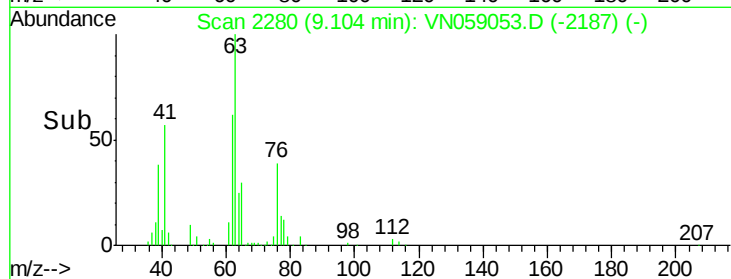
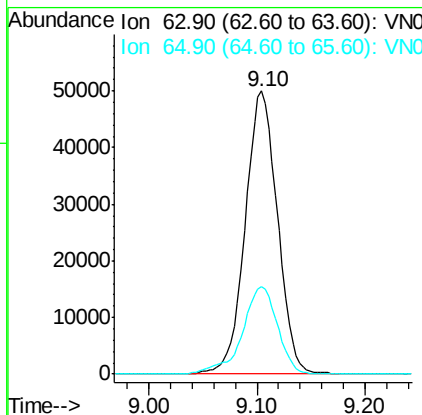
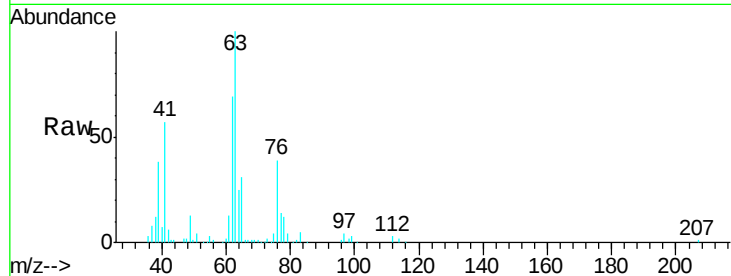
65 31.0 25.0 37.6

Manual Integrations

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#46

Dibromomethane

Concen: 20.680 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

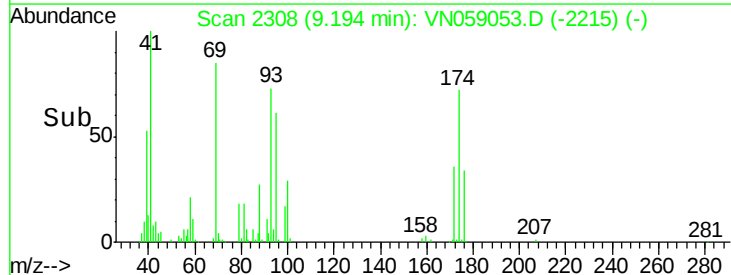
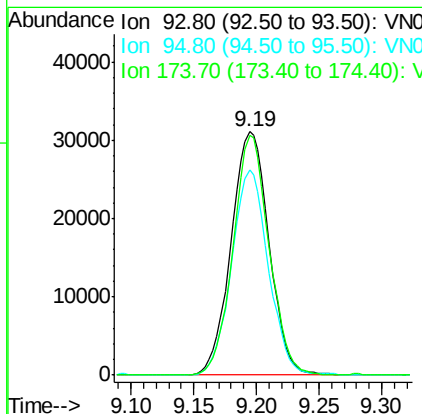
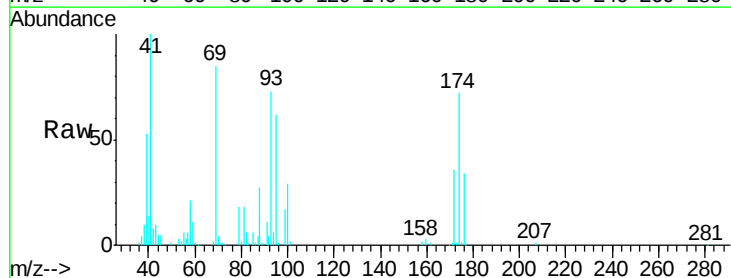
Tgt Ion: 93 Resp: 65311

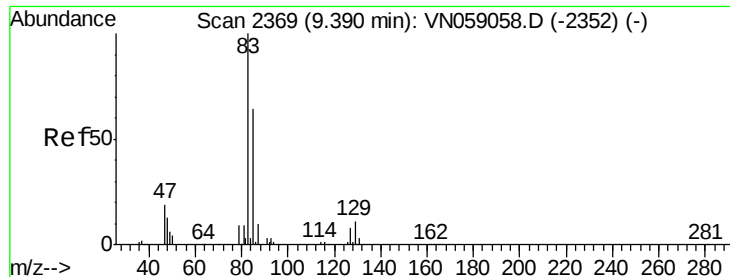
Ion Ratio Lower Upper

93 100

95 81.6 67.2 100.8

174 93.4 78.3 117.5





#47

Bromodichloromethane

Concen: 20.084 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

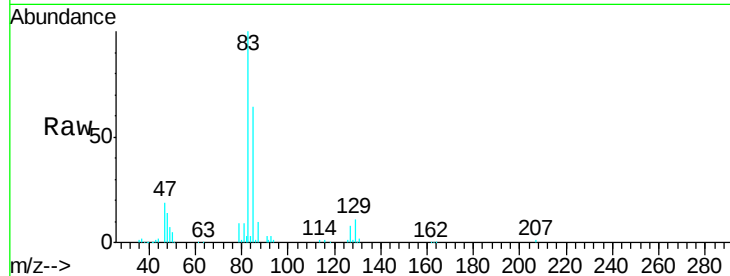
ClientSampleId :

VSTDIC020

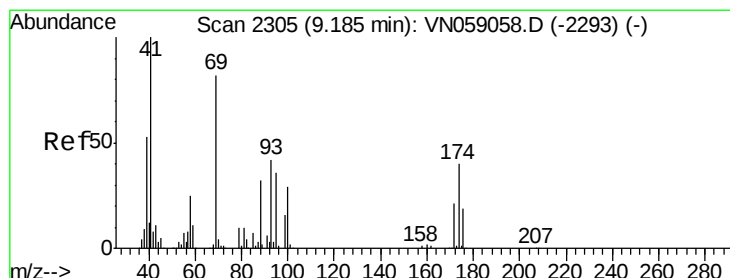
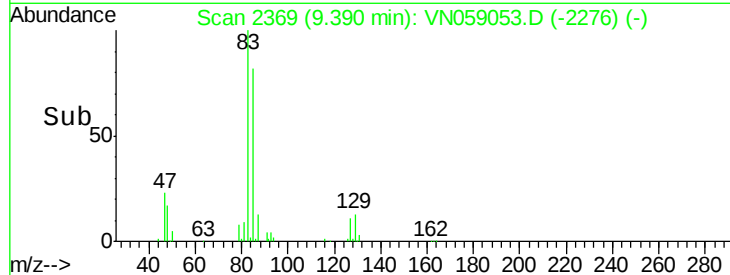
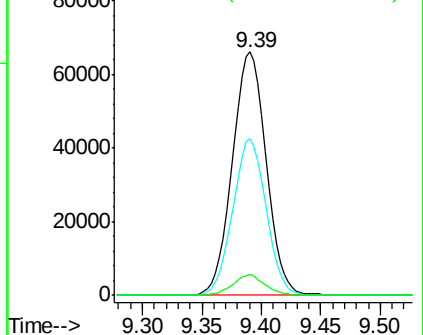
Tgt Ion:	83	Resp:	130413
Ion Ratio	Lower	Upper	
83	100		
85	64.5	51.2	76.8
127	8.4	6.5	9.7

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 19.891 ug/l

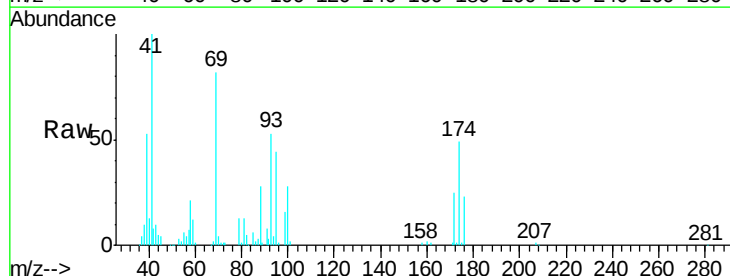
RT: 9.19 min Scan# 2306

Delta R.T. 0.00 min

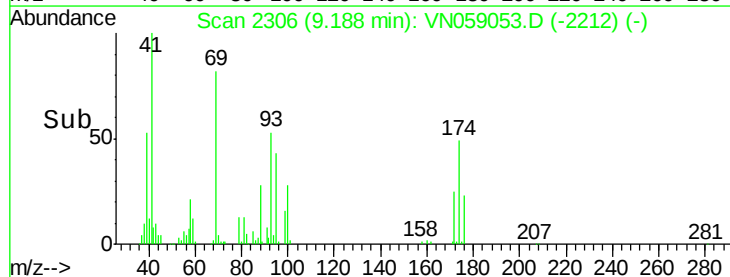
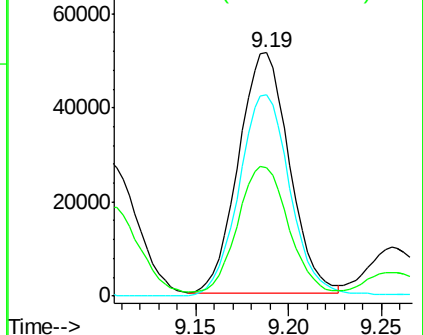
Lab File: VN059053.D

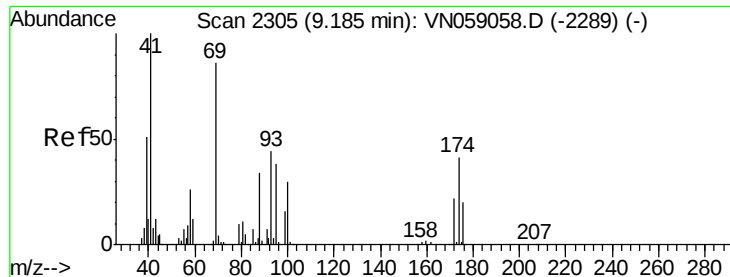
Acq: 1 Nov 2019 11:09

Tgt Ion:	41	Resp:	97631
Ion Ratio	Lower	Upper	
41	100		
69	84.6	67.1	100.7
39	54.8	43.3	64.9



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





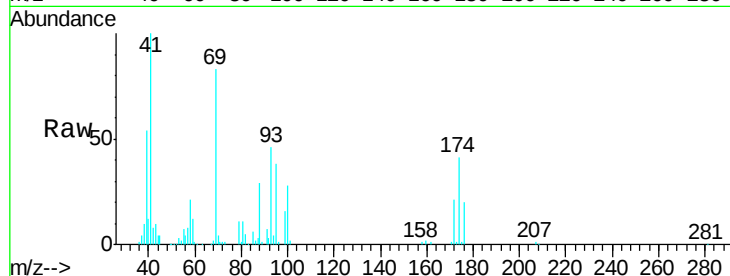
#49
1,4-Dioxane
Concen: 366.418 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
88	100		
43	35.1	26.2	39.2
58	74.4	59.1	88.7

Manual Integrations
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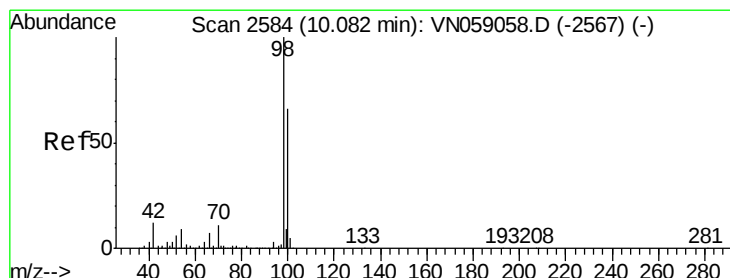
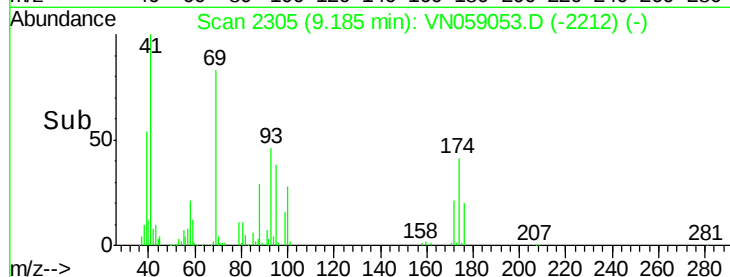
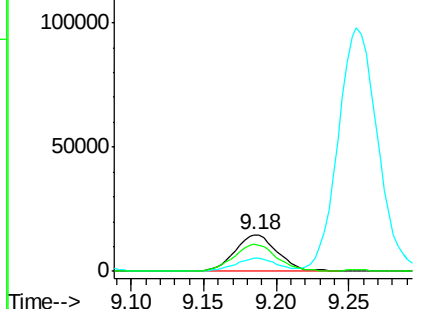
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Abundance Ion 88.00 (87.70 to 88.70): VN059058.D (-2289) (-)

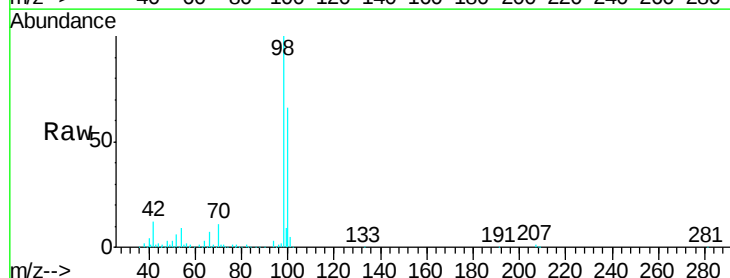
Ion 43.00 (42.70 to 43.70): VN059058.D (-2289) (-)

Ion 58.00 (57.70 to 58.70): VN059058.D (-2289) (-)



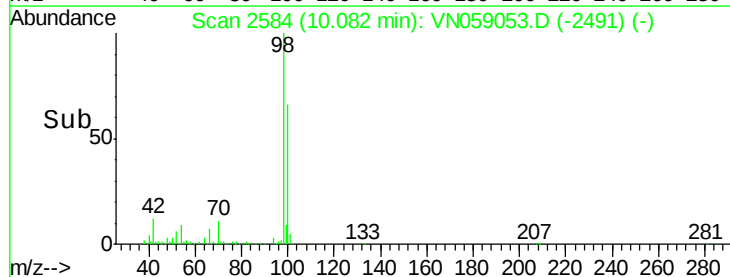
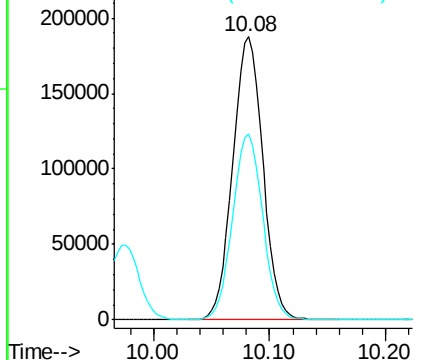
#50
Toluene-d8
Concen: 21.488 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

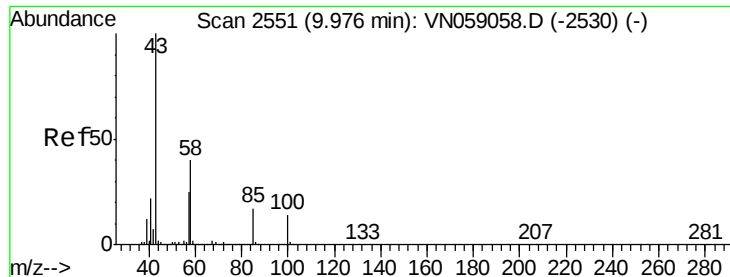
Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.7	77.5



Abundance Ion 98.00 (97.70 to 98.70): VN059058.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN059058.D (-2567) (-)





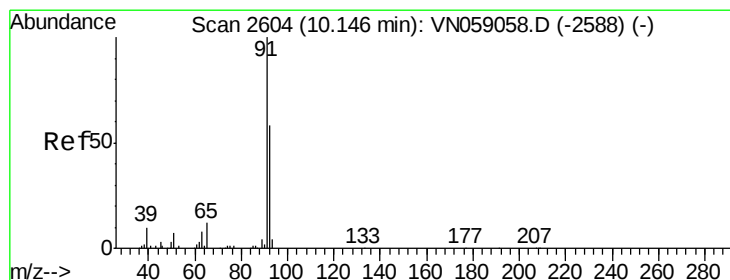
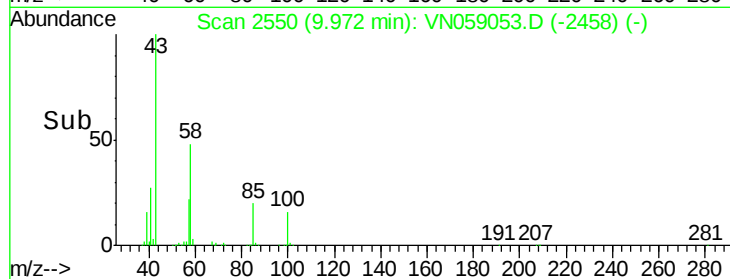
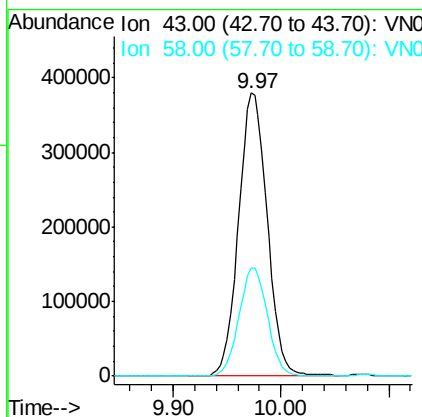
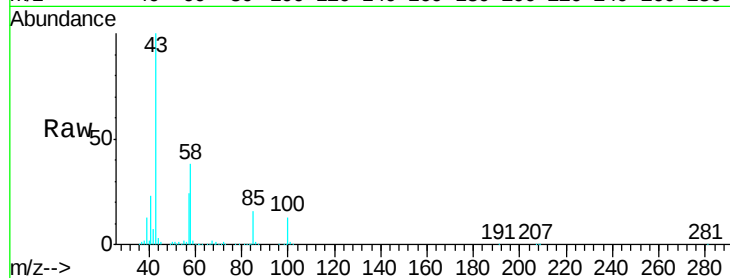
#51
 4-Methyl-2-Pentanone
 Concen: 110.678 ug/l
 RT: 9.97 min Scan# 2550
 Delta R.T. -0.00 min
 Lab File: VN059053.D
 Acq: 1 Nov 2019 11:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.2	31.8	47.6

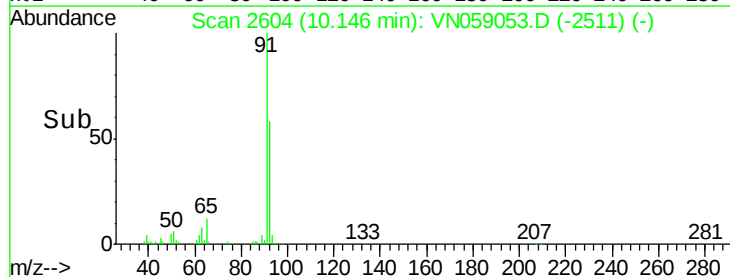
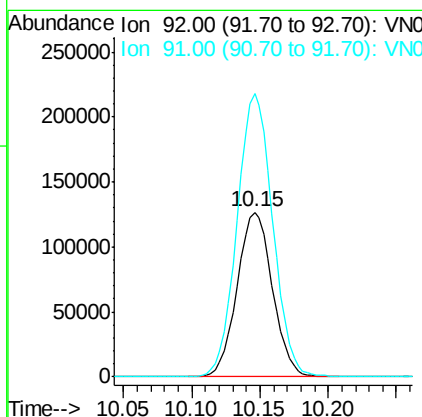
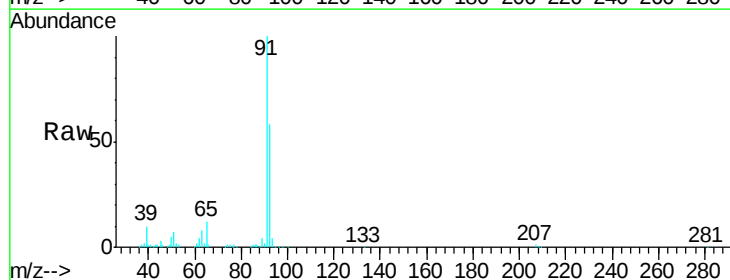
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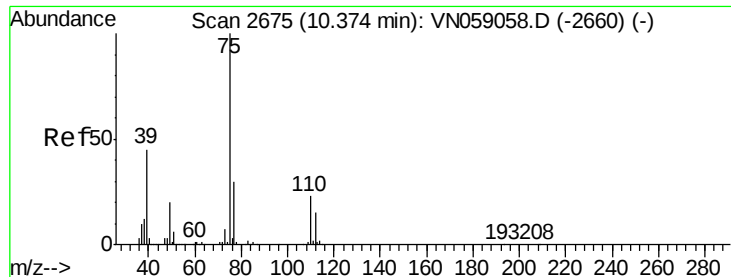
MMDadoda
 11/5/2019 1:58:45 PM



#52
 Toluene
 Concen: 21.035 ug/l
 RT: 10.15 min Scan# 2604
 Delta R.T. 0.00 min
 Lab File: VN059053.D
 Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.9	138.7	208.1





#53

t-1,3-Dichloropropene

Concen: 20.130 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 145110

Ion Ratio Lower Upper

75 100

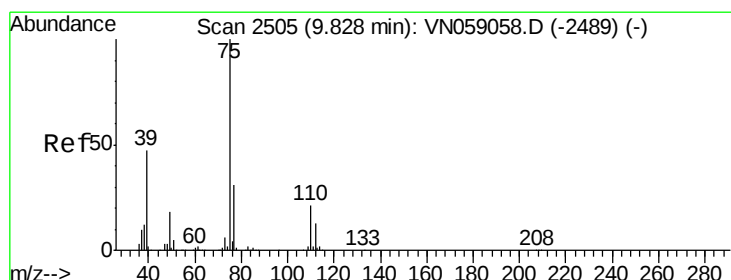
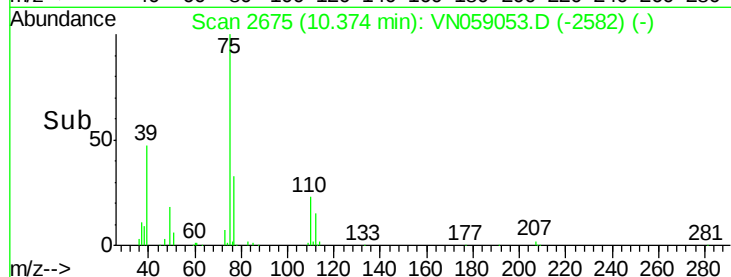
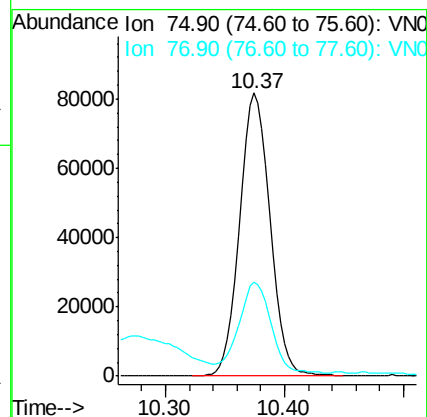
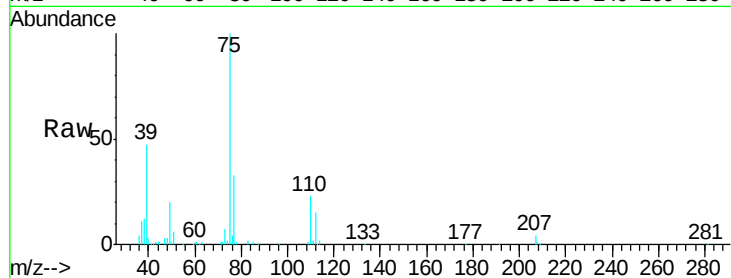
77 32.1 25.6 38.4

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11/5/2019 1:58:45 PM



#54

cis-1,3-Dichloropropene

Concen: 20.426 ug/l

RT: 9.83 min Scan# 2505

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

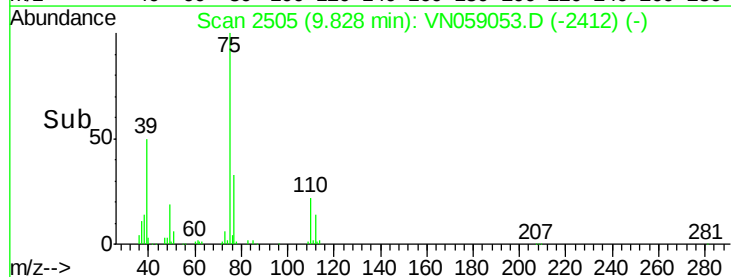
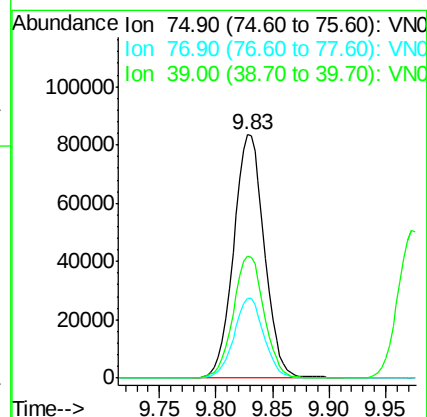
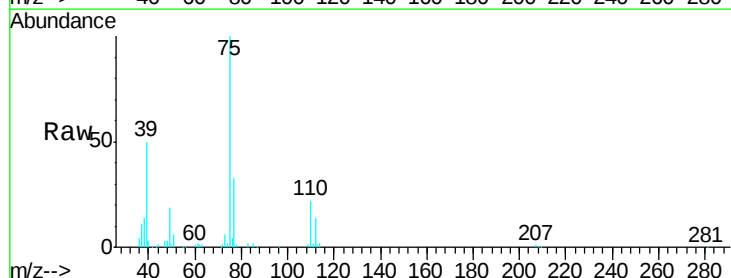
Tgt Ion: 75 Resp: 157715

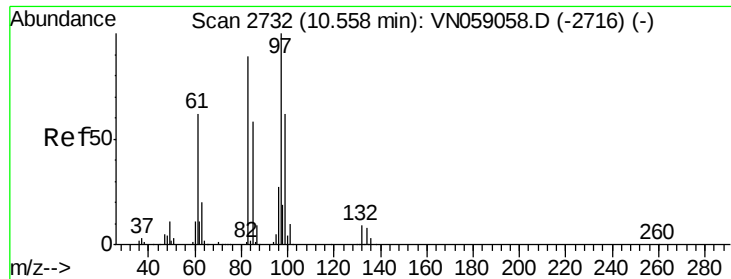
Ion Ratio Lower Upper

75 100

77 32.9 24.6 37.0

39 49.9 37.4 56.2





#55

1,1,2-Trichloroethane

Concen: 20.420 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

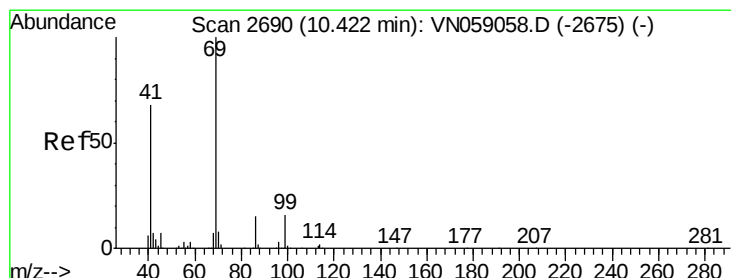
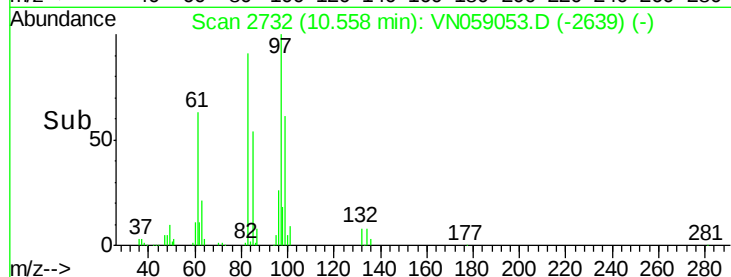
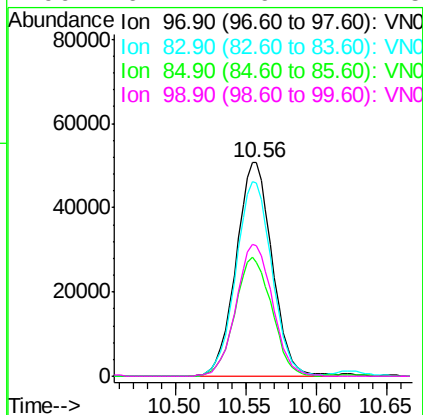
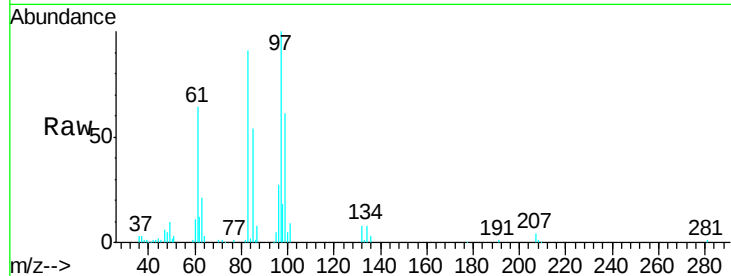
ClientSampleId :

VSTDIC020

Tgt Ion:	97	Resp:	91252
Ion	Ratio	Lower	Upper
97	100		
83	90.6	71.4	107.2
85	53.6	46.6	70.0
99	61.2	49.7	74.5

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#56

Ethyl methacrylate

Concen: 20.410 ug/l

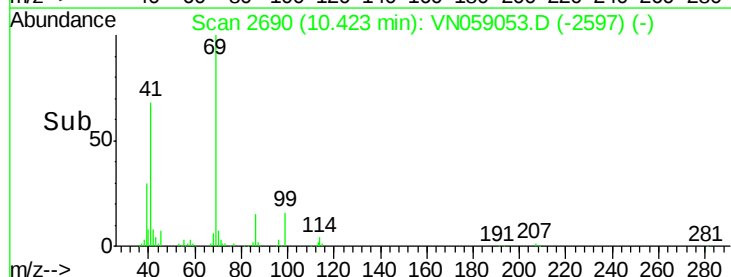
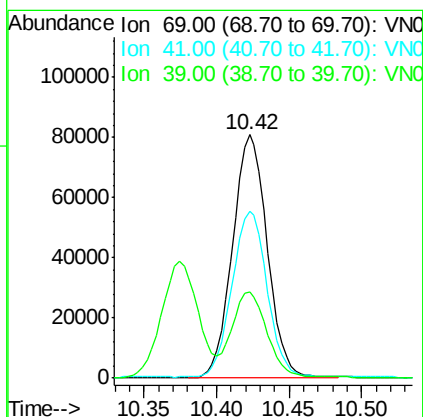
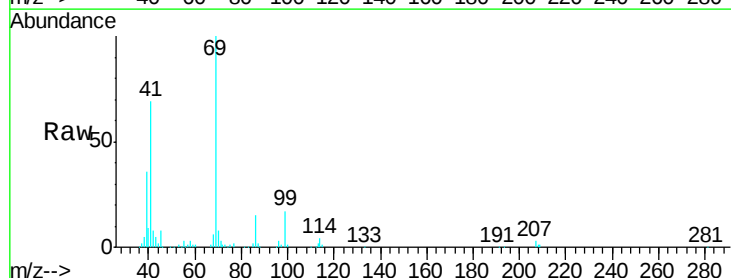
RT: 10.42 min Scan# 2690

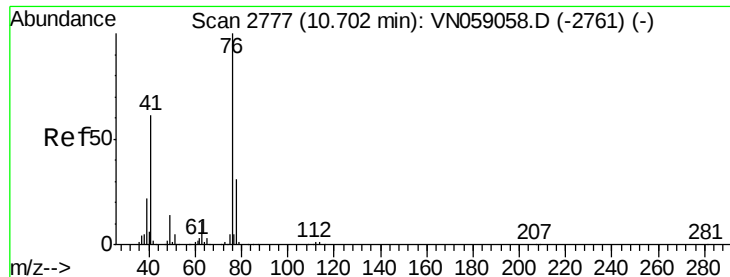
Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Tgt Ion:	69	Resp:	134659
Ion	Ratio	Lower	Upper
69	100		
41	68.7	53.8	80.8
39	35.7	26.2	39.2





#57

1,3-Dichloropropane

Concen: 20.100 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 157007

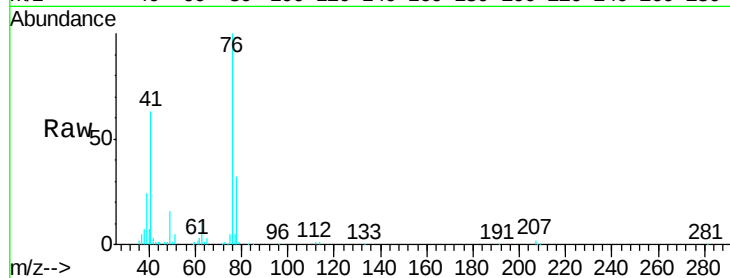
Ion Ratio Lower Upper

76 100

78 32.7 25.8 38.6

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.70

80000

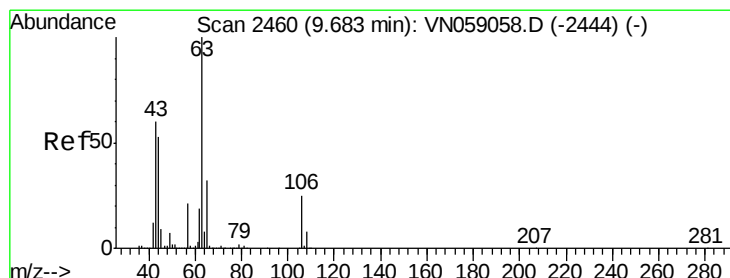
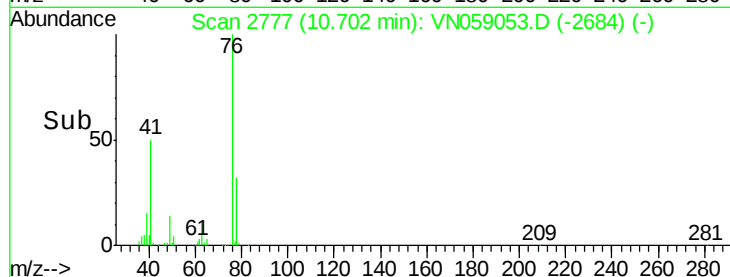
60000

40000

20000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 96.745 ug/l

RT: 9.68 min Scan# 2460

Delta R.T. 0.00 min

Lab File: VN059053.D

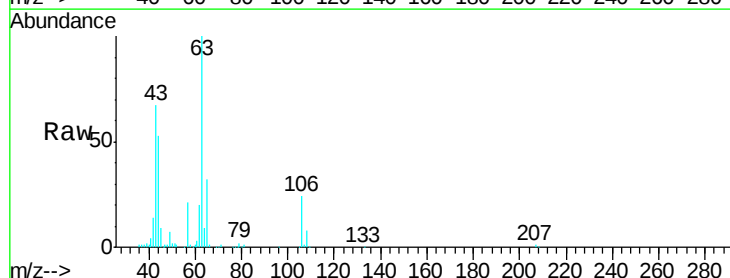
Acq: 1 Nov 2019 11:09

Tgt Ion: 63 Resp: 268398

Ion Ratio Lower Upper

63 100

106 24.4 19.8 29.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.68

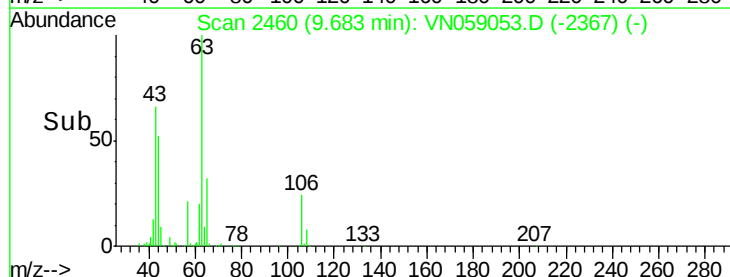
150000

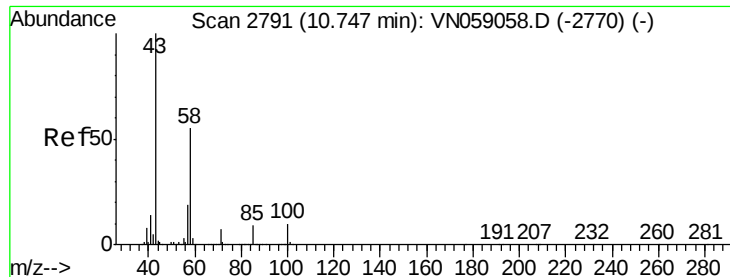
100000

50000

0

Time--> 9.60 9.70 9.80





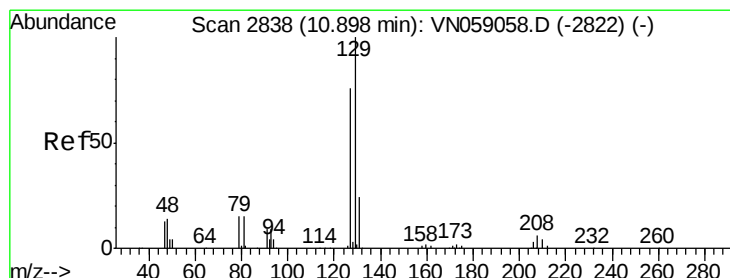
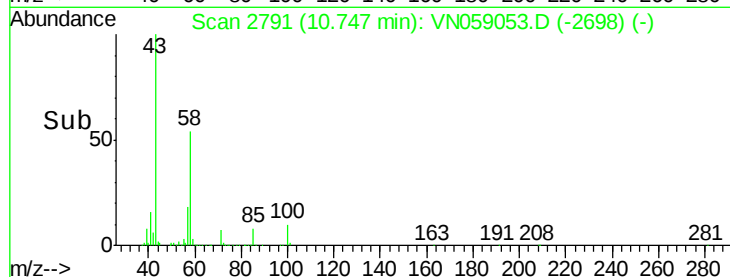
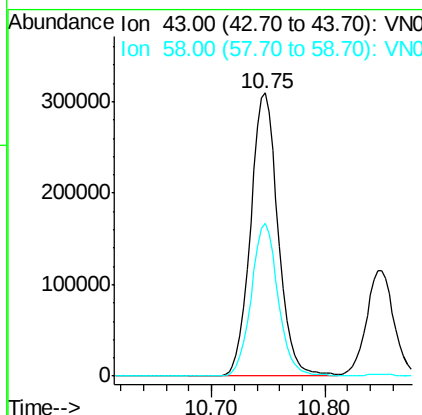
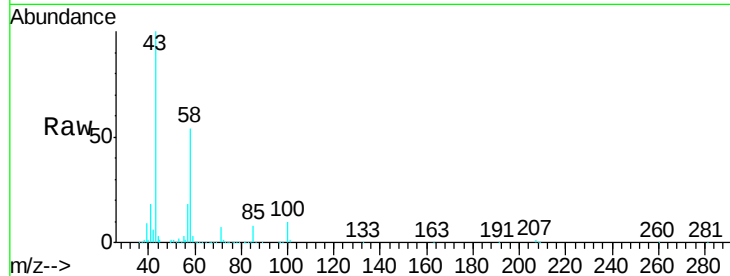
#59
2-Hexanone
Concen: 106.758 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 521197
Ion Ratio Lower Upper
43 100
58 53.1 27.4 82.2

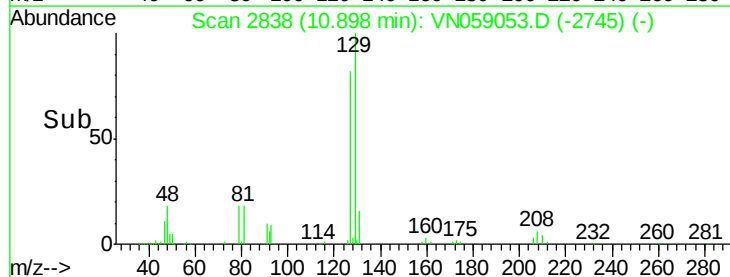
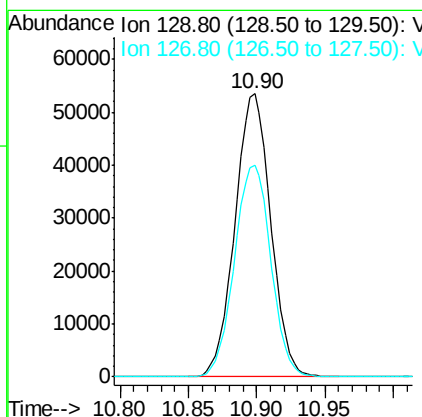
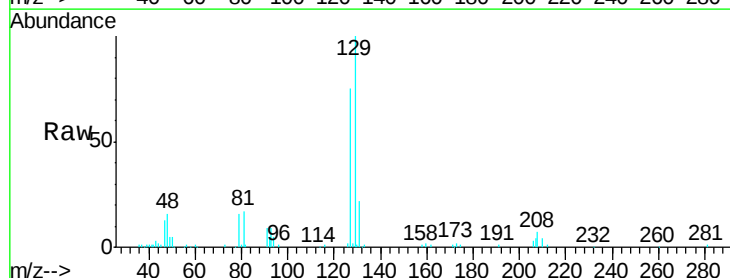
Manual Integrations
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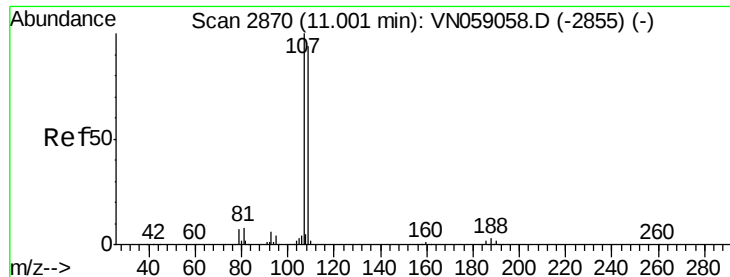
MMDadoda
11/5/2019 1:58:45 PM



#60
Dibromochloromethane
Concen: 20.314 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion: 129 Resp: 97581
Ion Ratio Lower Upper
129 100
127 75.9 38.3 114.8





#61

1,2-Dibromoethane

Concen: 20.275 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 107 Resp: 92528

Ion Ratio Lower Upper

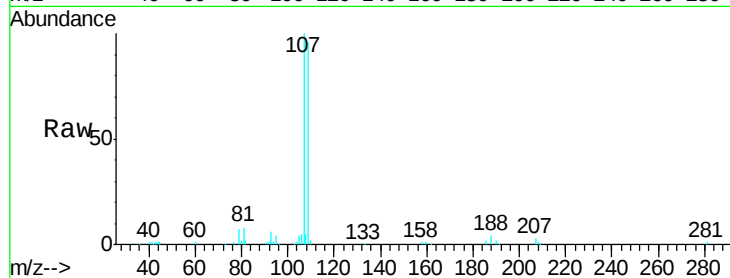
107 100

109 94.9 75.5 113.3

Manual Integrations
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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

60000

50000

40000

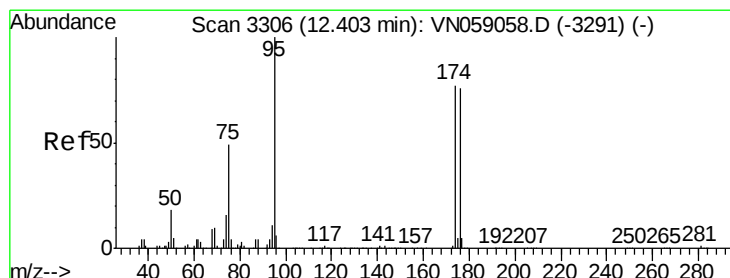
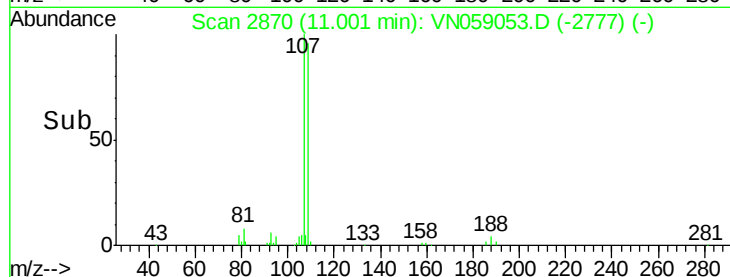
30000

20000

10000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 20.332 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

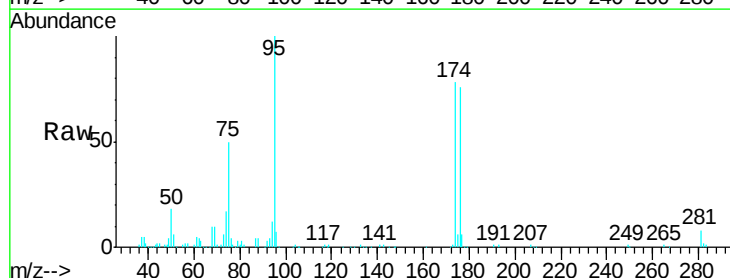
Tgt Ion: 95 Resp: 117318

Ion Ratio Lower Upper

95 100

174 77.2 0.0 155.8

176 75.9 0.0 151.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

80000

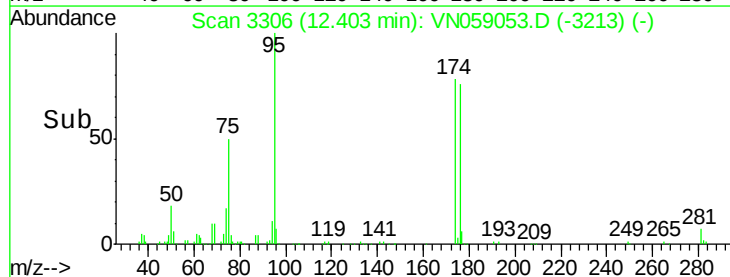
60000

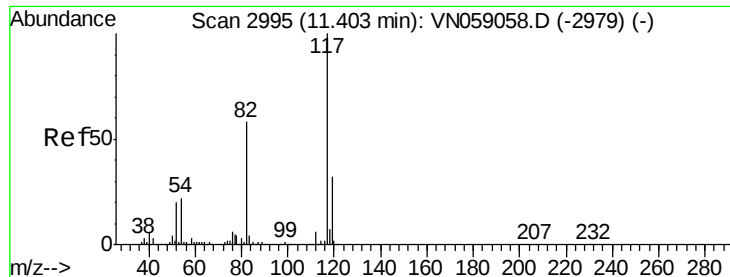
40000

20000

0

Time--> 12.35 12.40 12.45





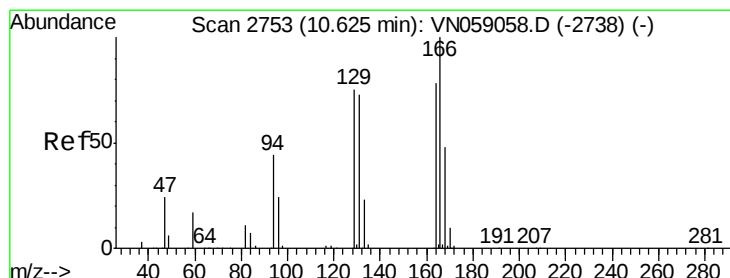
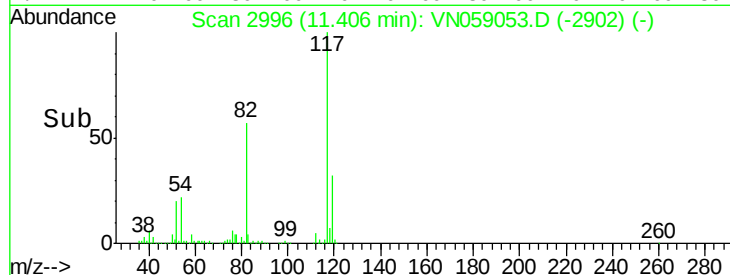
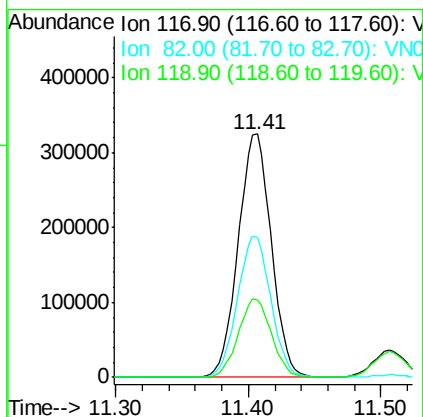
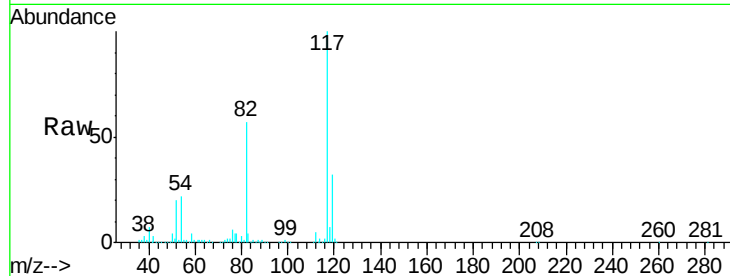
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	563540		
82	57.2	46.0	69.0	
119	31.9	25.6	38.4	

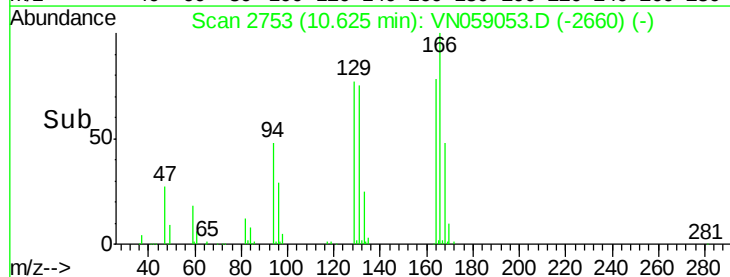
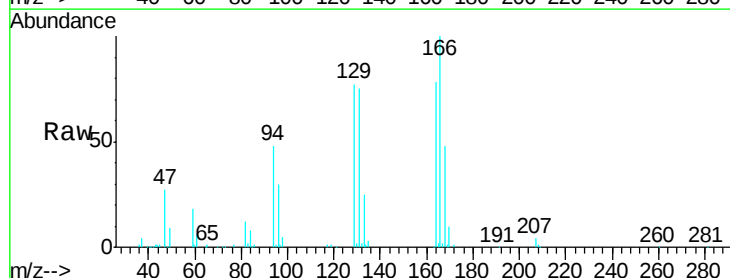
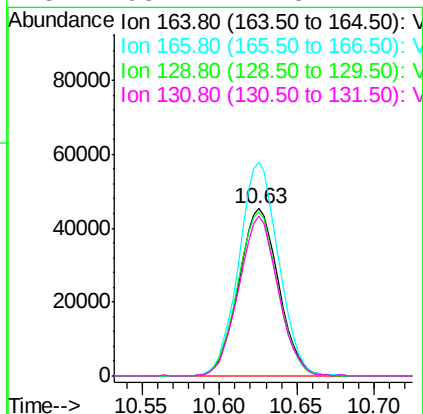
Manual Integrations
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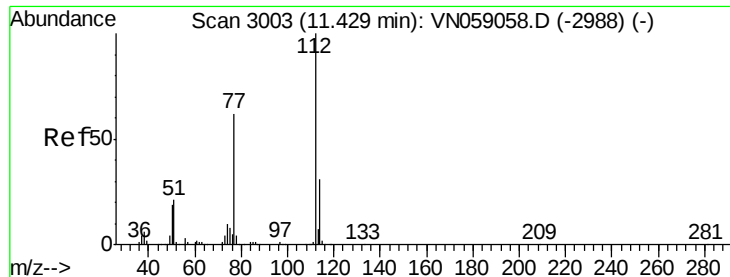
MMDadoda
11/5/2019 1:58:45 PM



#64
Tetrachloroethene
Concen: 20.902 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	81577		
166	127.6	102.7	154.1	
129	98.1	77.3	115.9	
131	95.2	74.8	112.2	





#65

Chlorobenzene

Concen: 20.752 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:112 Resp: 235740

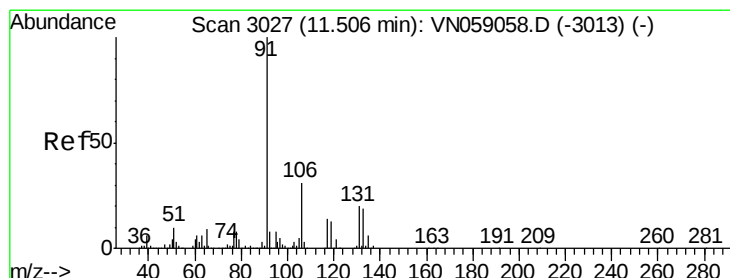
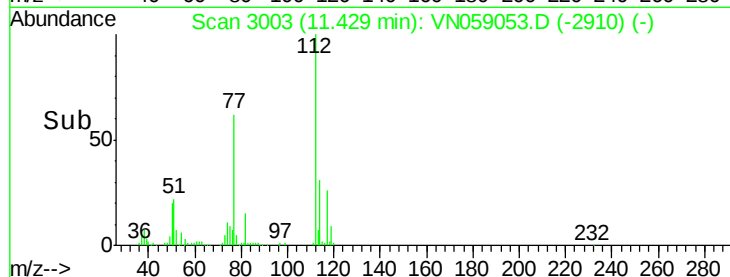
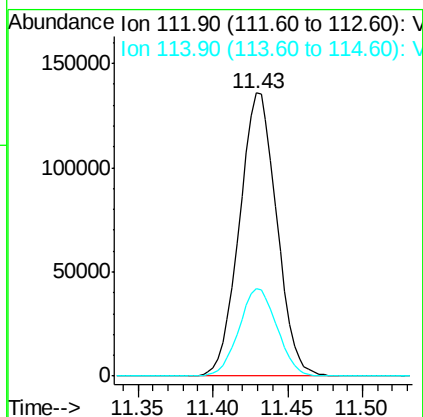
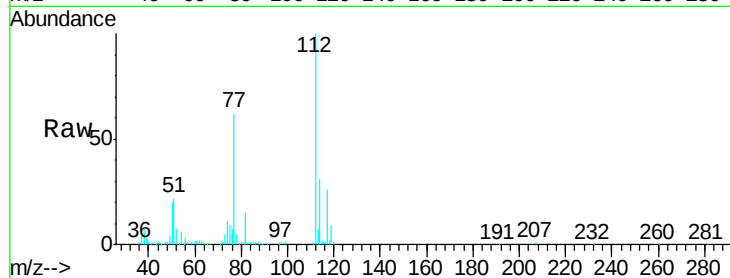
Ion Ratio Lower Upper

112 100

114 30.9 25.0 37.6

Manual Integrations
APPROVED

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#66

1,1,1,2-Tetrachloroethane

Concen: 20.728 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

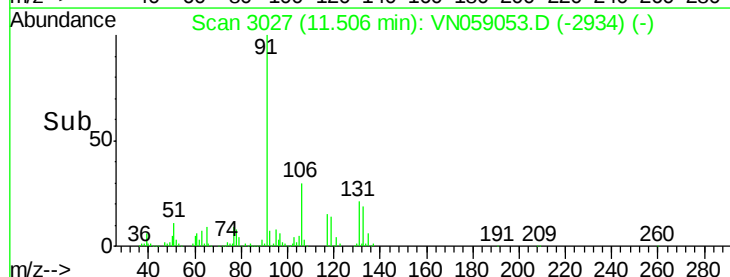
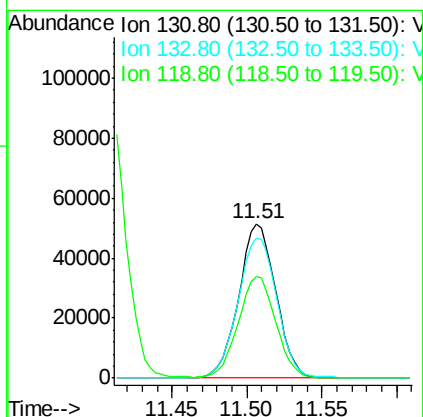
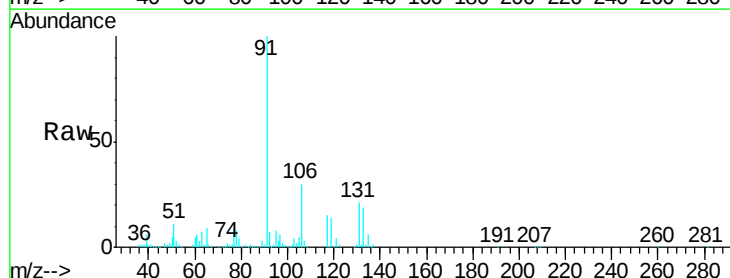
Tgt Ion:131 Resp: 88698

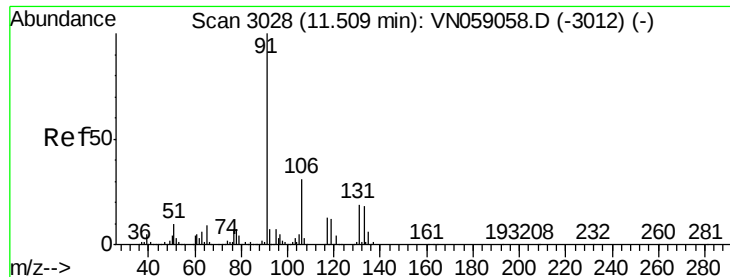
Ion Ratio Lower Upper

131 100

133 95.8 47.9 143.6

119 66.9 33.5 100.5





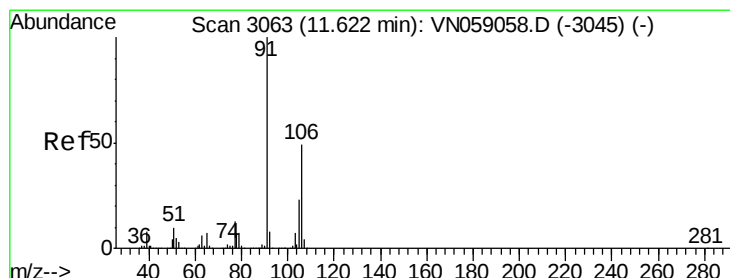
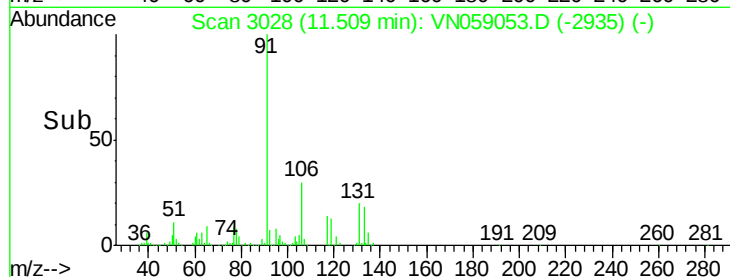
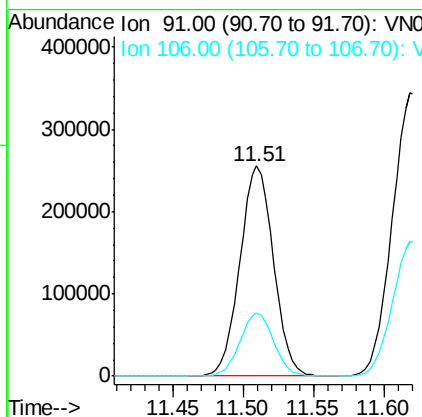
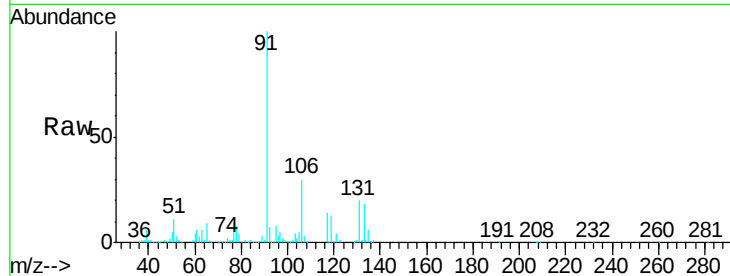
#67
Ethyl Benzene
Concen: 21.468 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 91 Resp: 426715
Ion Ratio Lower Upper
91 100
106 30.1 24.6 36.8

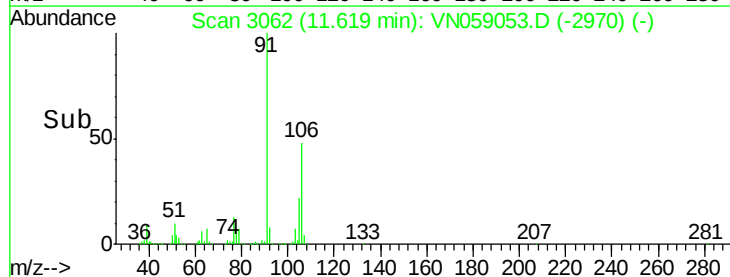
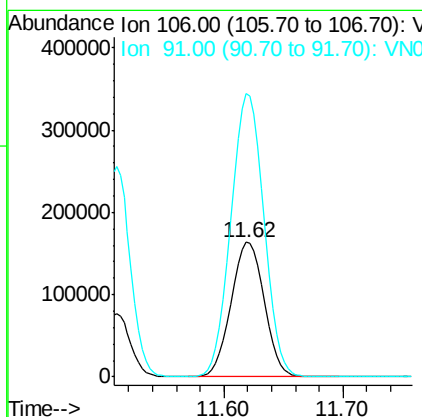
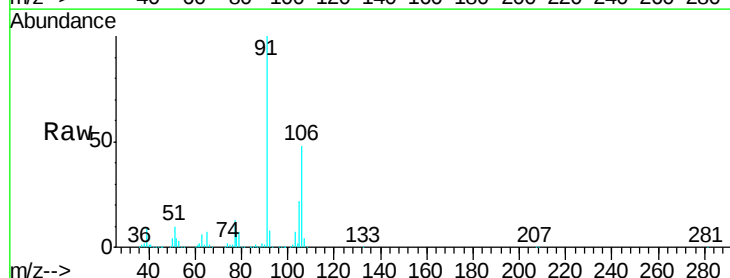
Manual Integrations
APPROVED

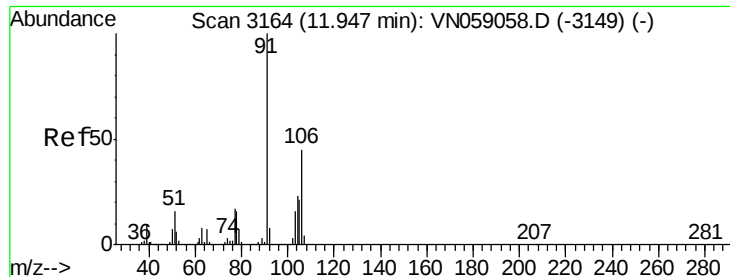
MMDadoda
11/5/2019 1:58:45 PM



#68
m/p-Xylenes
Concen: 43.103 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion: 106 Resp: 317292
Ion Ratio Lower Upper
106 100
91 208.6 165.7 248.5





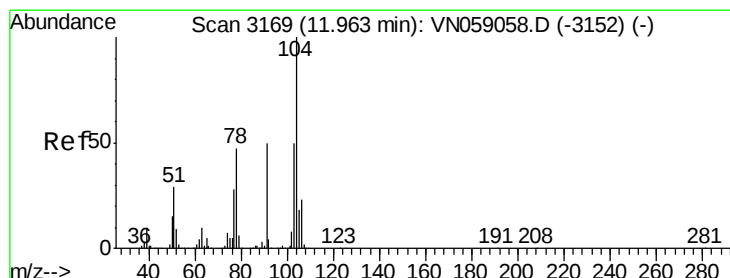
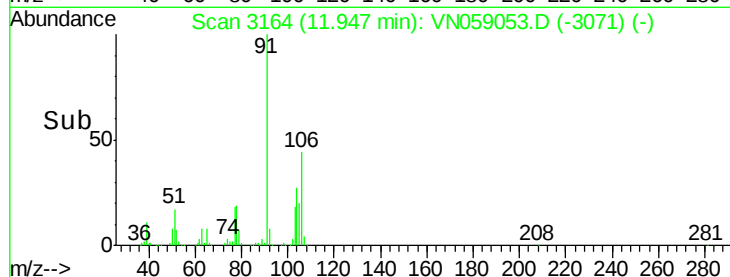
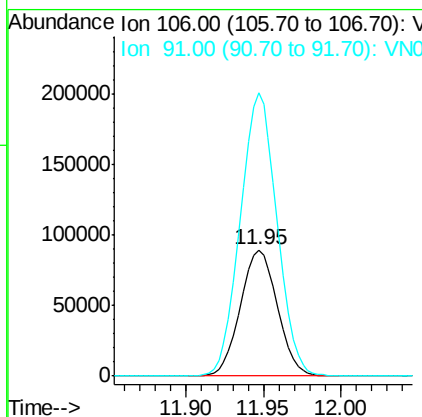
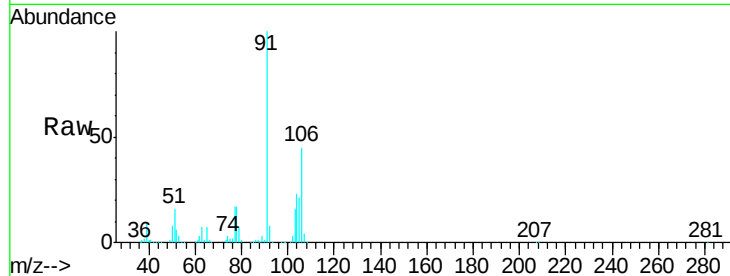
#69
o-Xylene
Concen: 21.149 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion:106 Resp: 148884
Ion Ratio Lower Upper
106 100
91 222.7 110.4 331.2

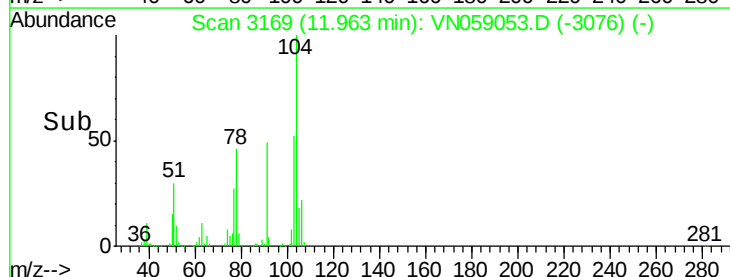
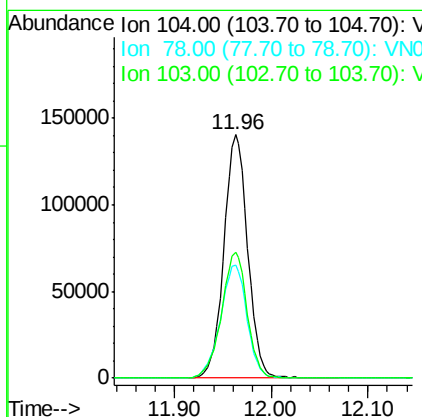
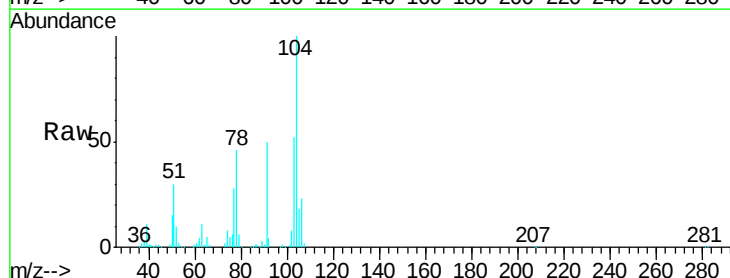
Manual Integrations
APPROVED

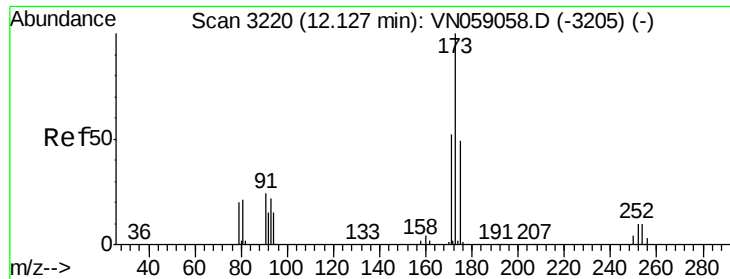
MMDadoda
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#70
Styrene
Concen: 20.900 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion:104 Resp: 239922
Ion Ratio Lower Upper
104 100
78 51.7 41.2 61.8
103 55.6 43.9 65.9





#71

Bromoform

Concen: 20.711 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

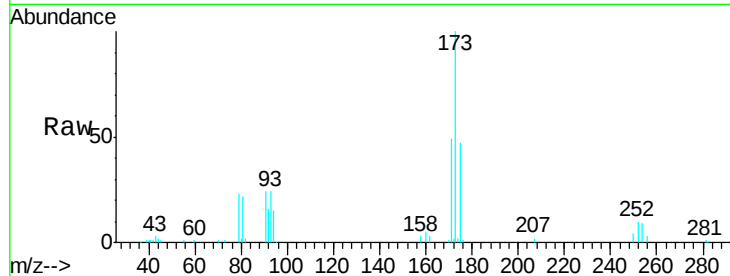
ClientSampleId :

VSTDIC020

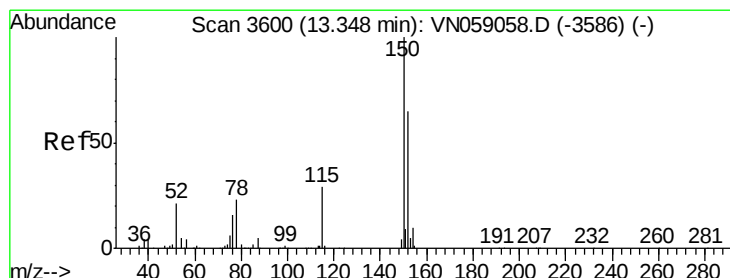
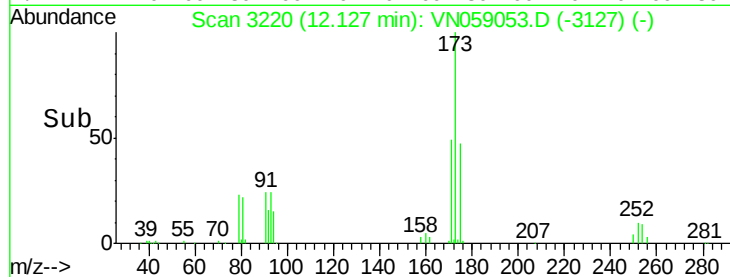
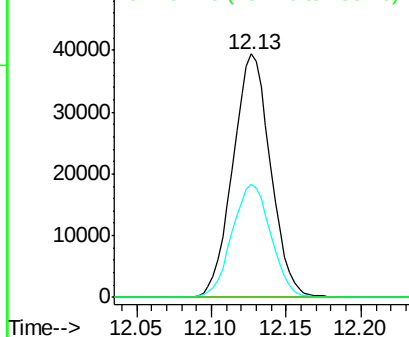
Tgt Ion	Ratio	Resp	Lower	Upper
173	100	69056		
175	47.7	24.4	73.2	
254	0.0	0.1	0.1#	

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

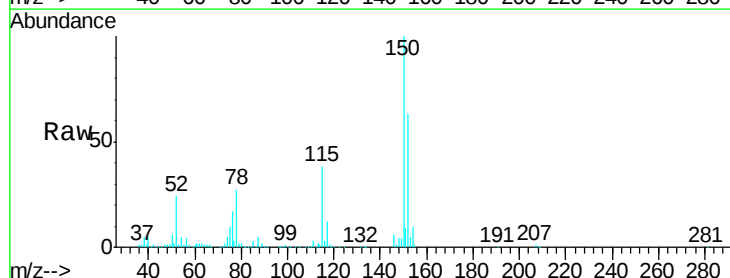
RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

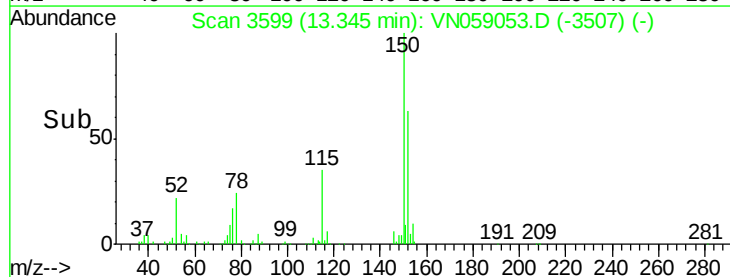
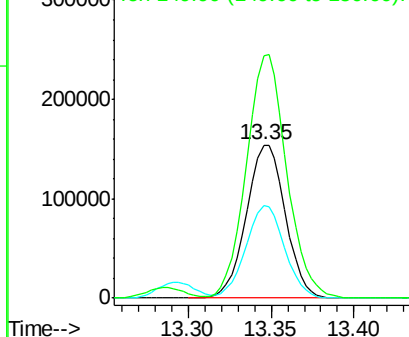
Lab File: VN059053.D

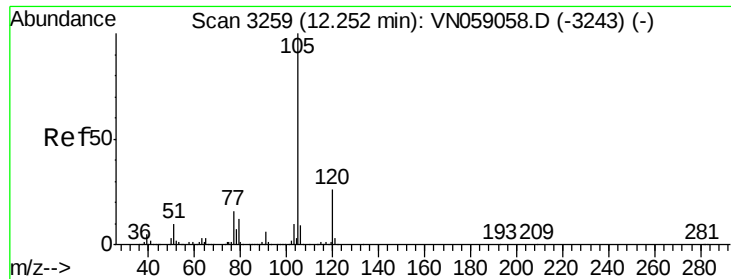
Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	251298		
115	60.6	29.6	88.9	
150	164.2	0.0	345.8	



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: 22.203 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tgt Ion: 105 Resp: 404301

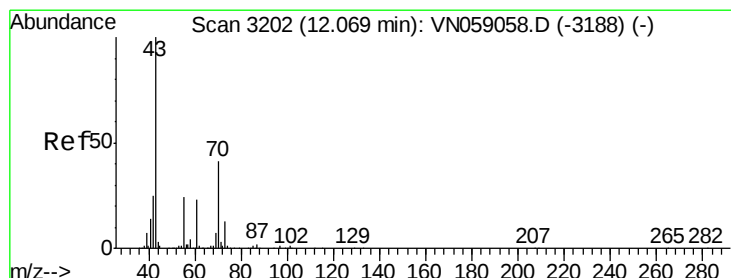
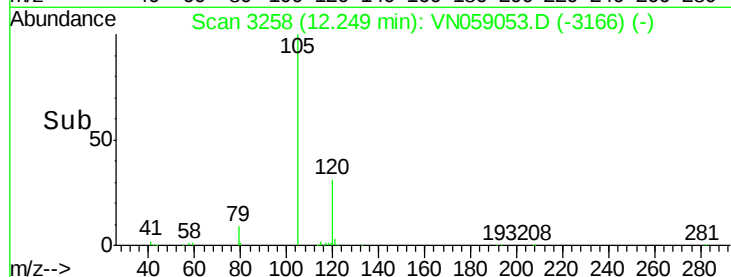
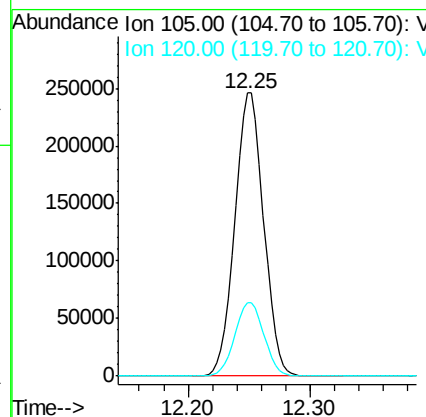
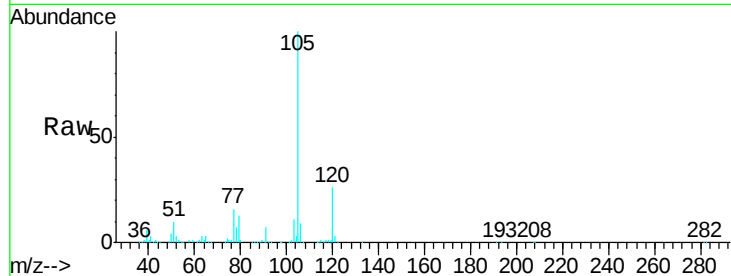
Ion Ratio Lower Upper

105 100

120 26.2 13.1 39.1

Manual Integrations
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11/5/2019 1:58:45 PM



#74

N-ethyl acetate

Concen: 21.286 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Tgt Ion: 43 Resp: 174607

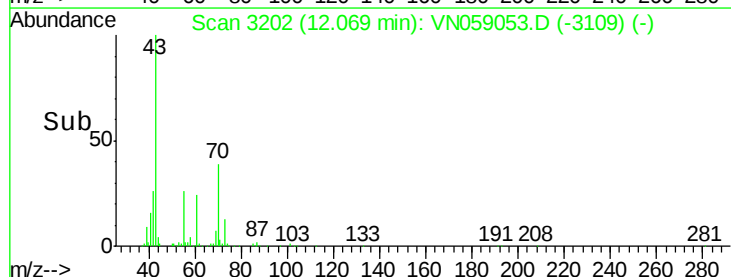
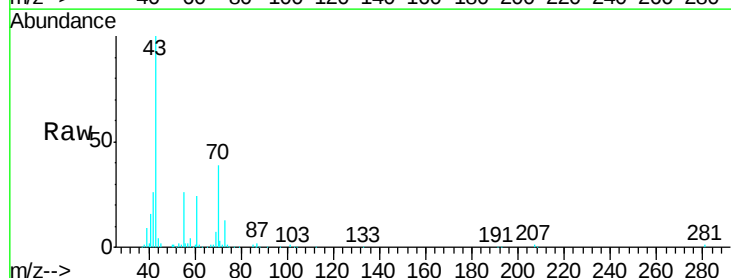
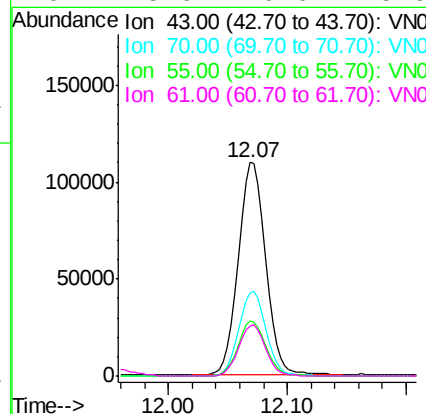
Ion Ratio Lower Upper

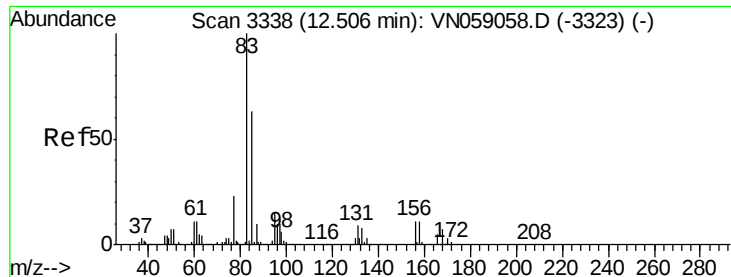
43 100

70 40.0 32.6 49.0

55 26.4 19.7 29.5

61 23.6 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 21.667 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 138694

Ion Ratio Lower Upper

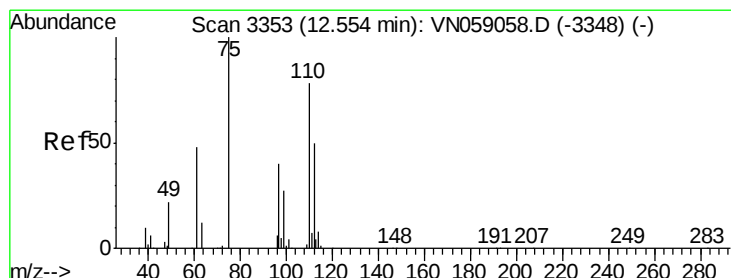
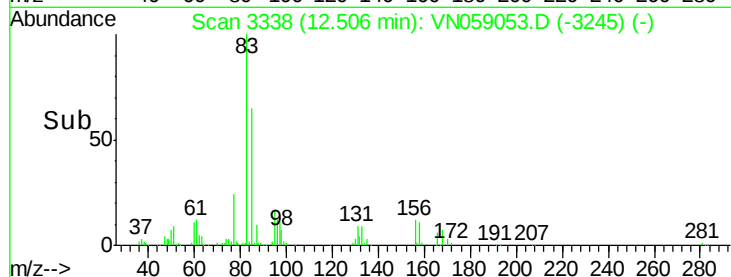
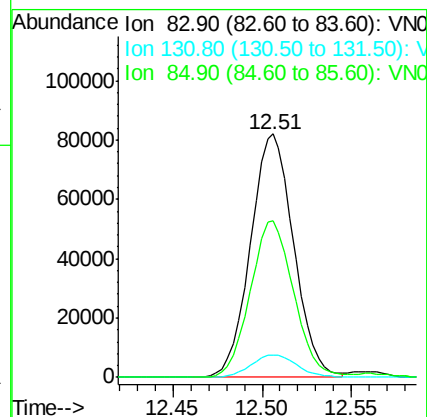
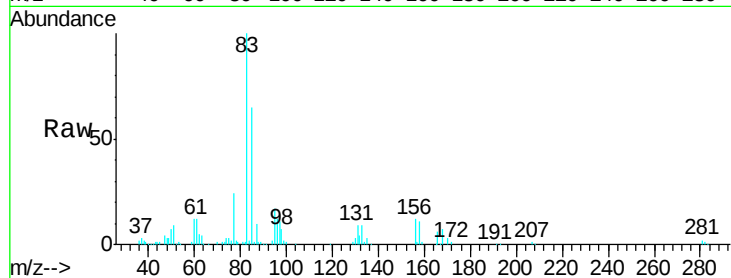
83 100

131 9.8 4.9 14.7

85 65.0 31.9 95.9

Manual Integrations
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11/5/2019 1:58:45 PM



#76

1,2,3-Trichloropropane

Concen: 22.174 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN059053.D

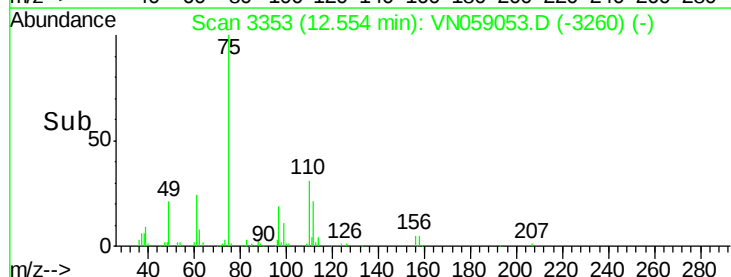
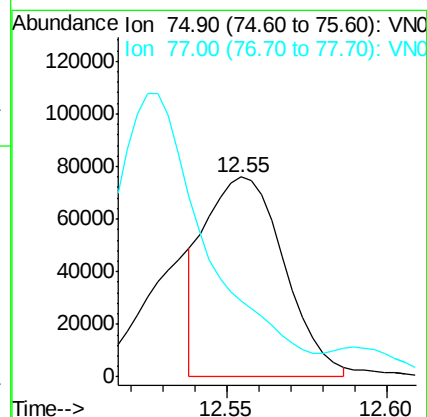
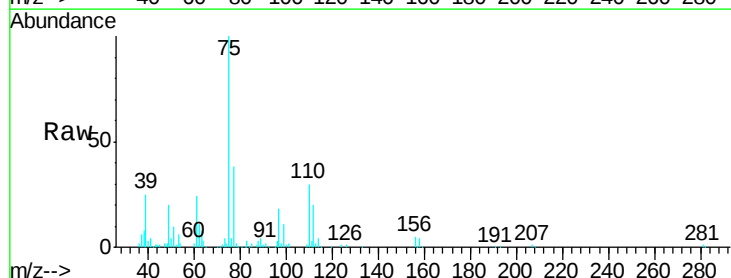
Acq: 1 Nov 2019 11:09

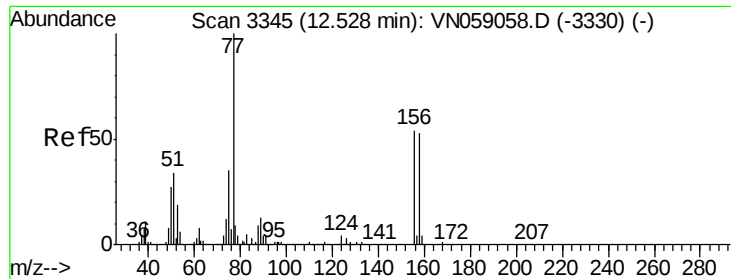
Tgt Ion: 75 Resp: 129241

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 21.423 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

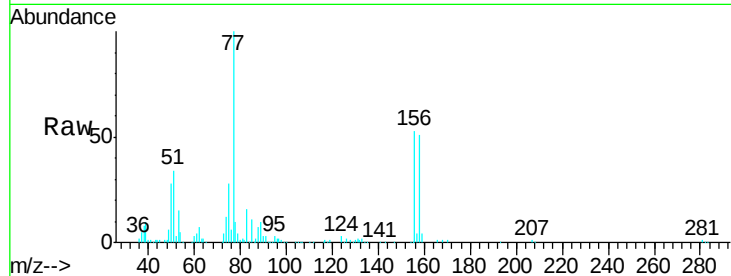
ClientSampled :

VSTDIC020

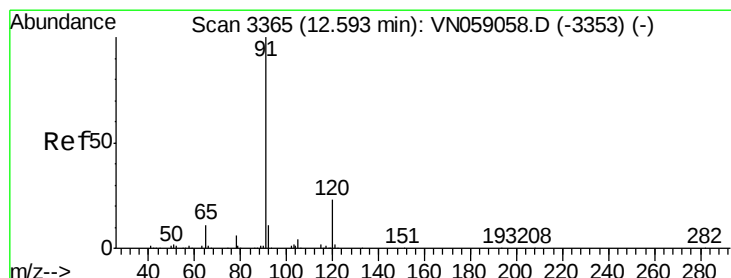
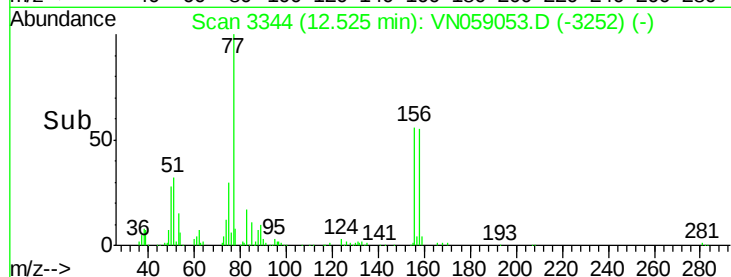
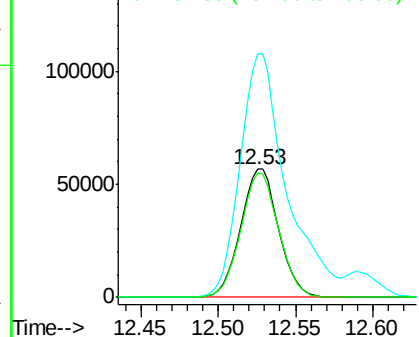
Tgt Ion:	156	Resp:	96297
Ion Ratio	Lower	Upper	
156	100		
77	234.7	114.2	342.6
158	96.9	49.6	149.0

Manual Integrations
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Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): V
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.754 ug/l

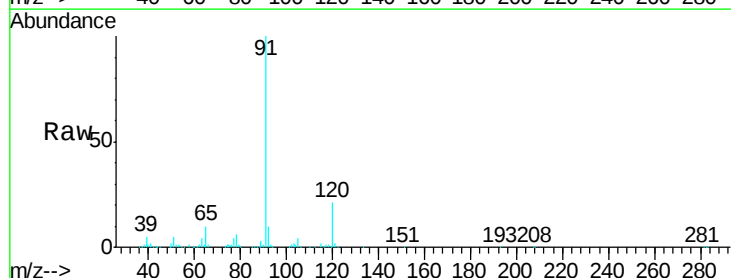
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

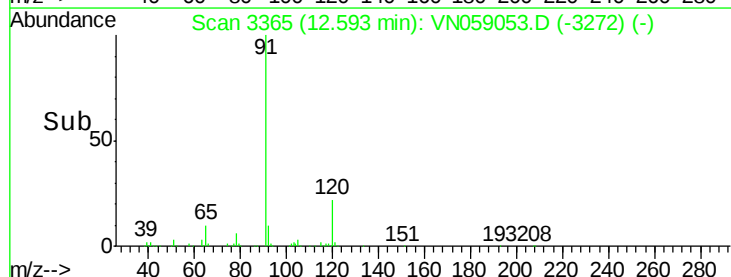
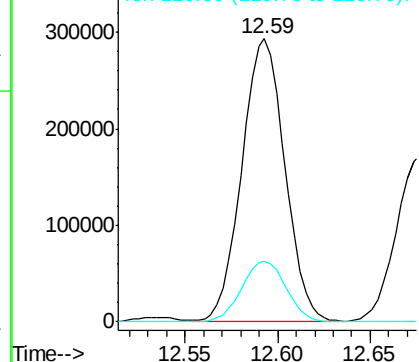
Lab File: VN059053.D

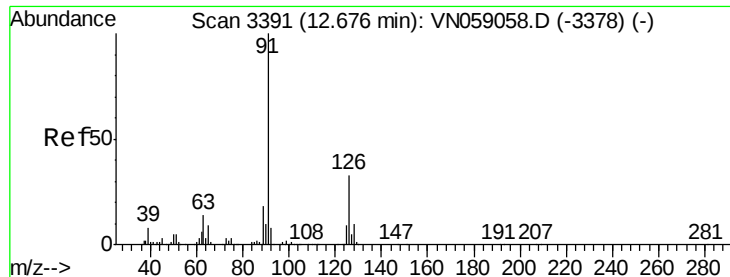
Acq: 1 Nov 2019 11:09

Tgt Ion:	91	Resp:	467679
Ion Ratio	Lower	Upper	
91	100		
120	22.4	11.2	33.5



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 120.00 (119.70 to 120.70): V





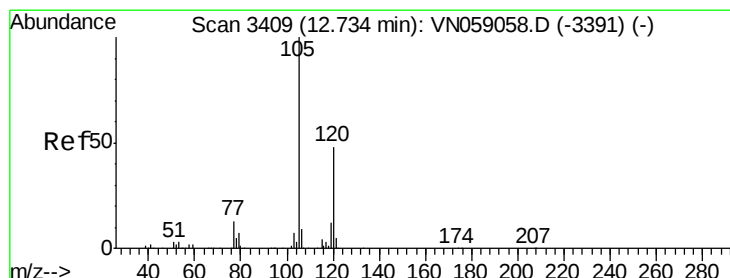
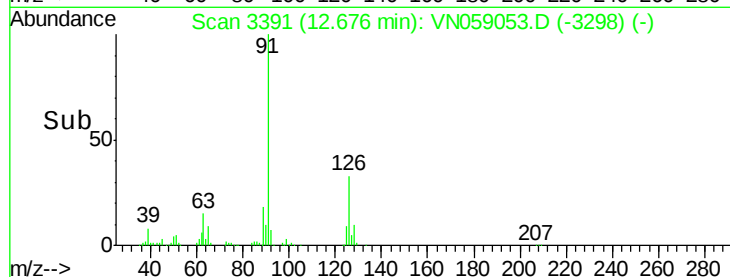
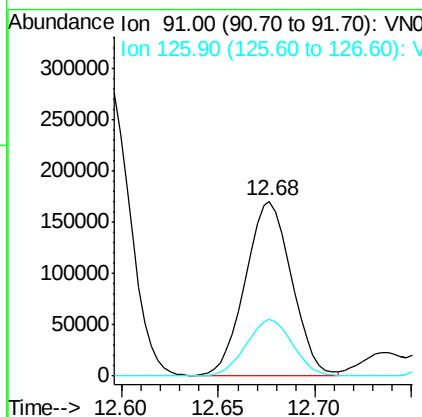
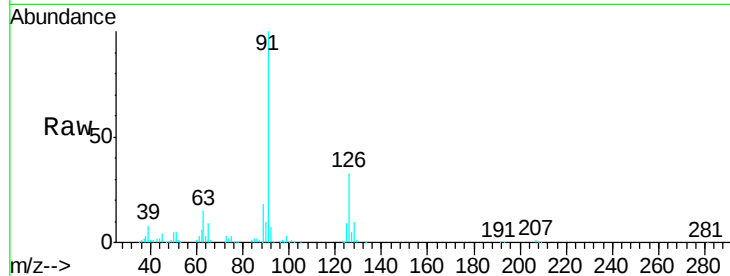
#79
 2-Chlorotoluene
 Concen: 21.430 ug/l
 RT: 12.68 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VN059053.D
 Acq: 1 Nov 2019 11:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tgt Ion: 91 Resp: 282393
 Ion Ratio Lower Upper
 91 100
 126 32.8 16.3 48.8

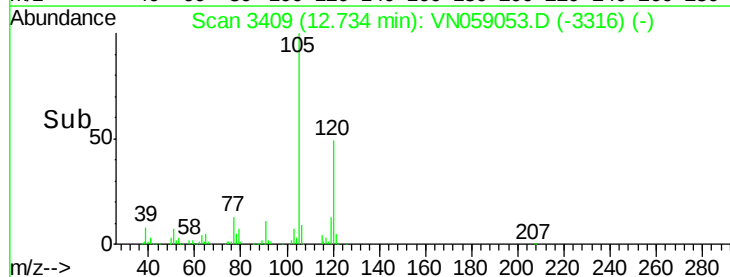
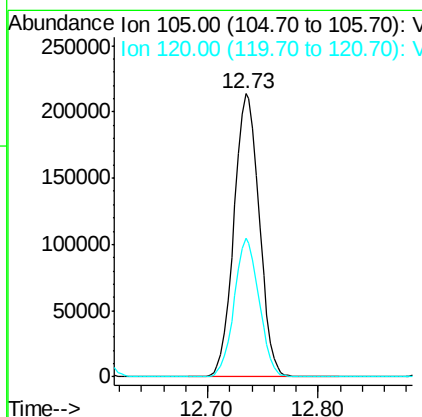
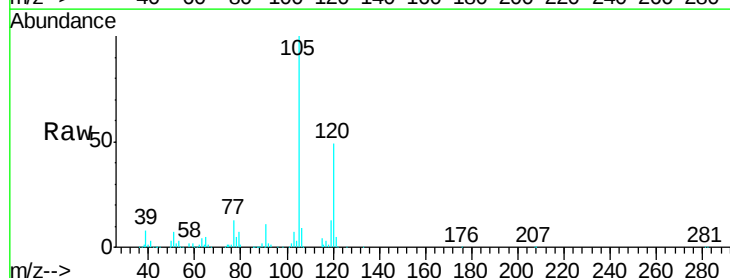
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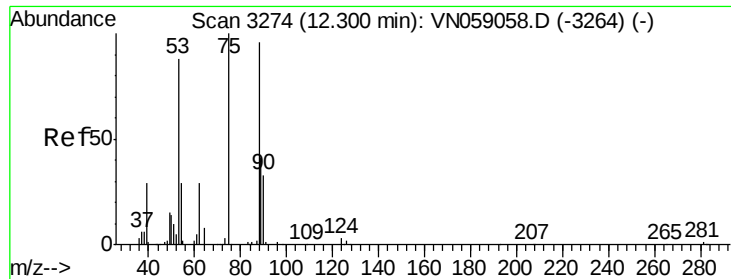
MMDadoda
 11/5/2019 1:58:45 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 22.336 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN059053.D
 Acq: 1 Nov 2019 11:09

Tgt Ion: 105 Resp: 340566
 Ion Ratio Lower Upper
 105 100
 120 48.1 24.2 72.6





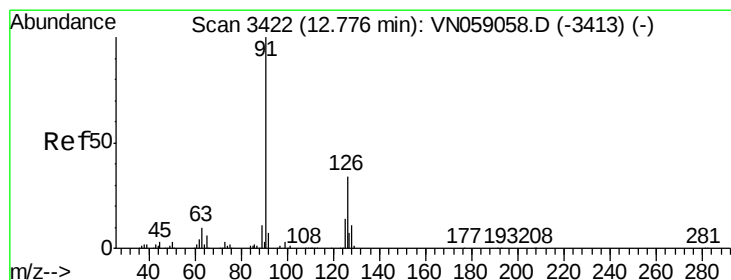
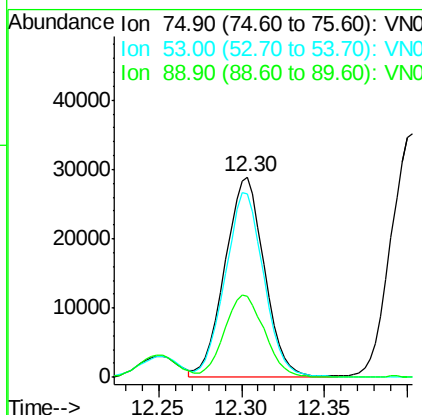
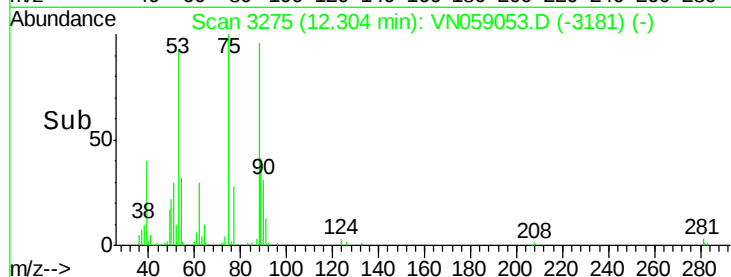
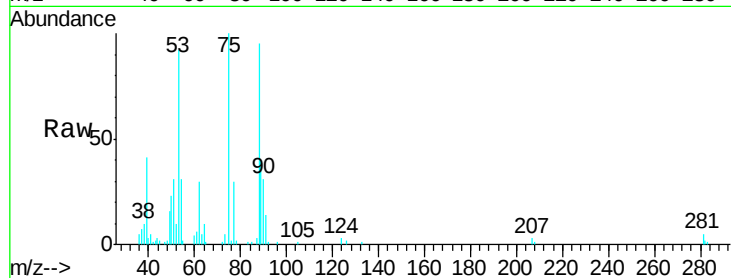
#81
trans-1,4-Dichloro-2-butene
Concen: 21.319 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
75	100		
53	91.2	70.4	105.6
89	41.7	34.2	51.2

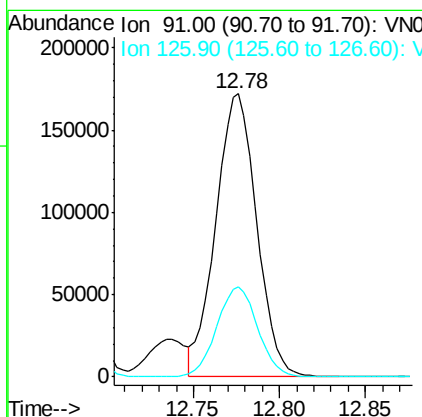
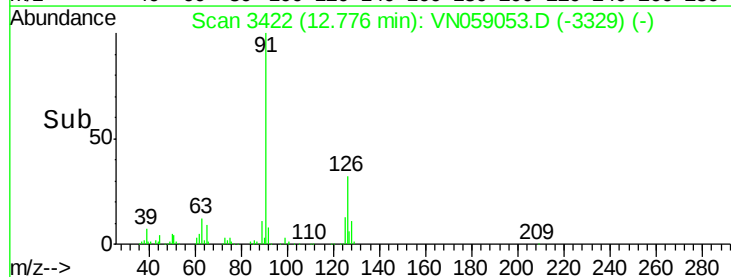
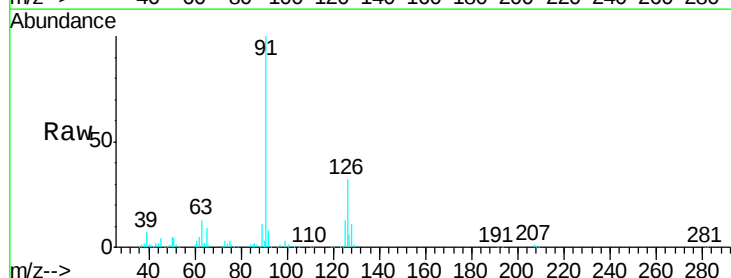
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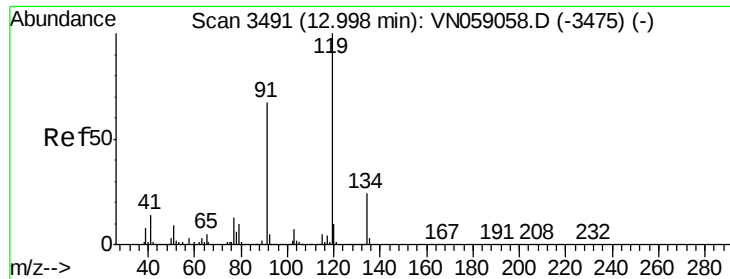
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11/5/2019 1:58:45 PM



#82
4-Chlorotoluene
Concen: 21.166 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.0	47.9





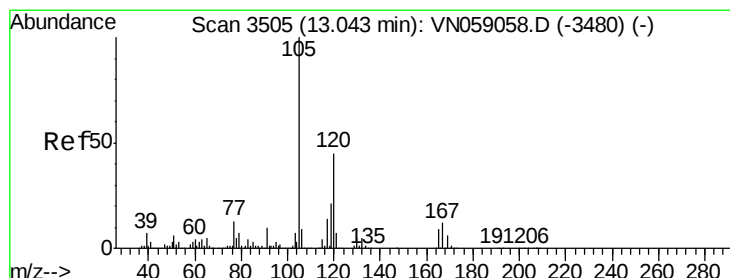
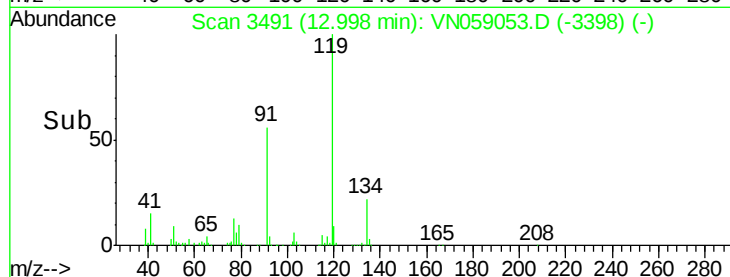
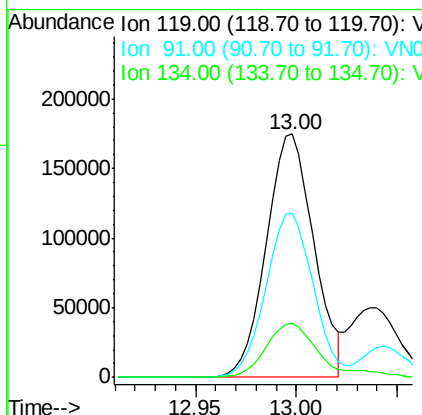
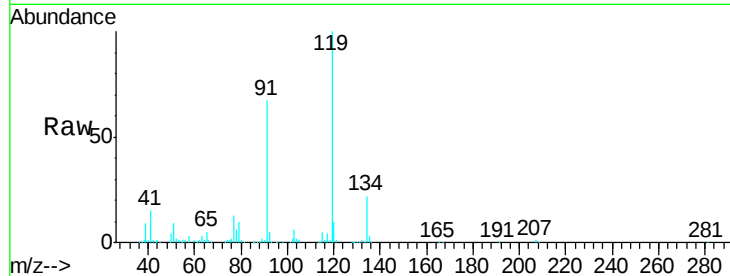
#83
tert-Butylbenzene
Concen: 21.898 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
119	100		
91	67.0	33.7	101.0
134	25.0	12.9	38.7

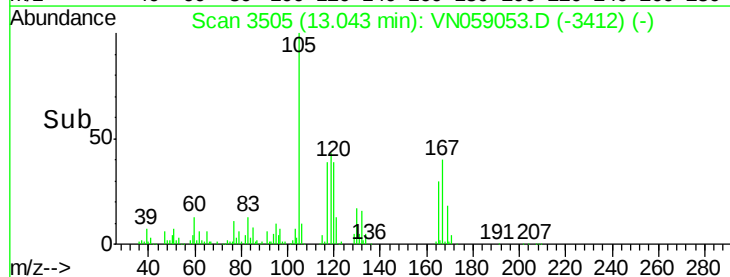
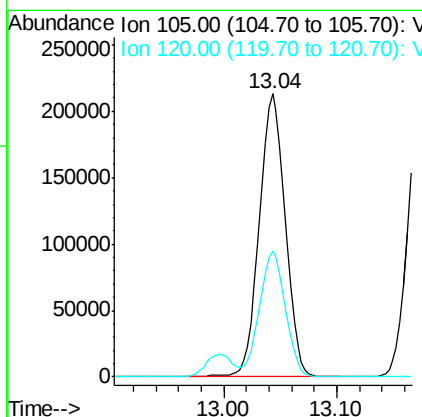
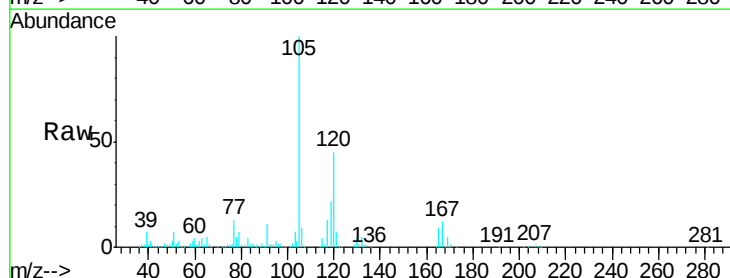
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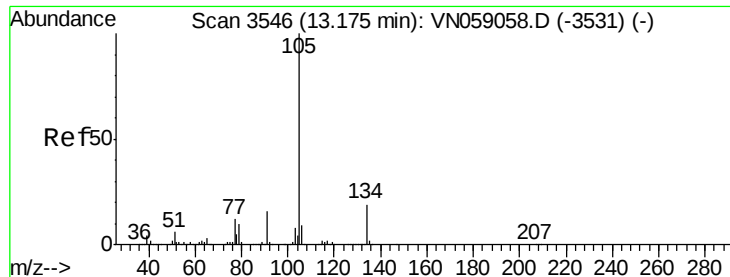
MMDadoda
11/5/2019 1:58:45 PM



#84
1,2,4-Trimethylbenzene
Concen: 22.656 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.4	22.3	66.9





#85

sec-Butylbenzene

Concen: 21.887 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

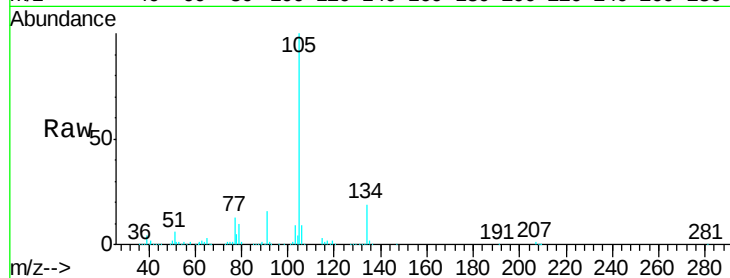
Tgt Ion:105 Resp: 380191
Ion Ratio Lower Upper

105 100

134 19.4 9.8 29.4

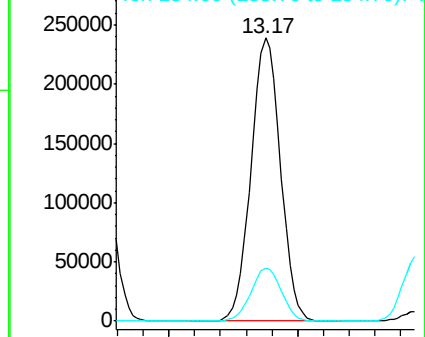
Manual Integrations
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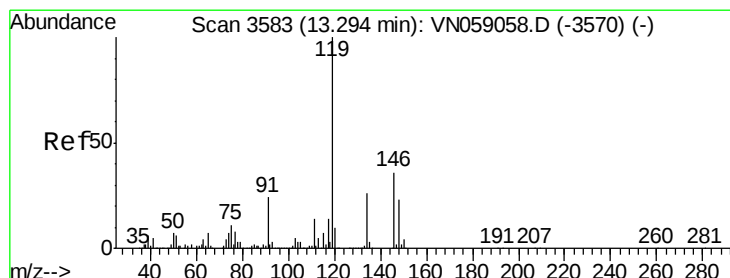
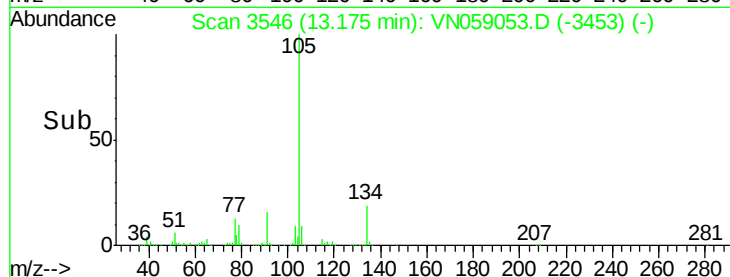


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 22.223 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN059053.D

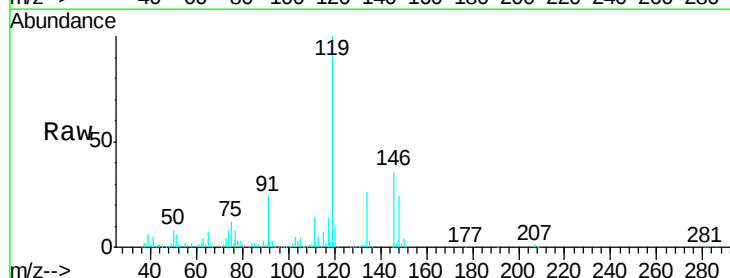
Acq: 1 Nov 2019 11:09

Tgt Ion:119 Resp: 341131
Ion Ratio Lower Upper

119 100

134 25.8 13.0 39.0

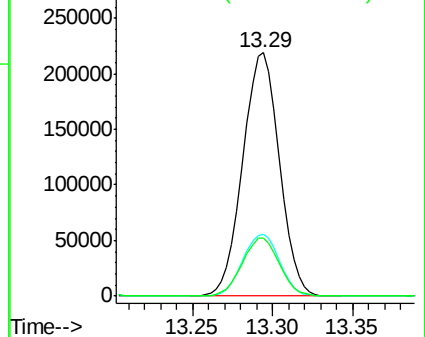
91 24.1 12.0 36.0



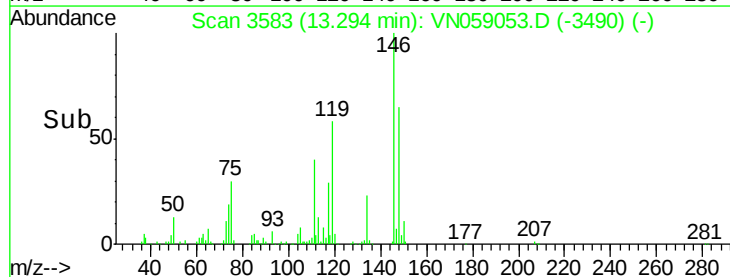
Abundance Ion 119.00 (118.70 to 119.70): V

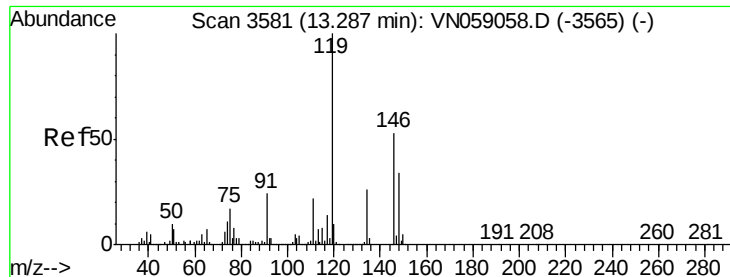
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time-->





#87

1,3-Dichlorobenzene

Concen: 21.141 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

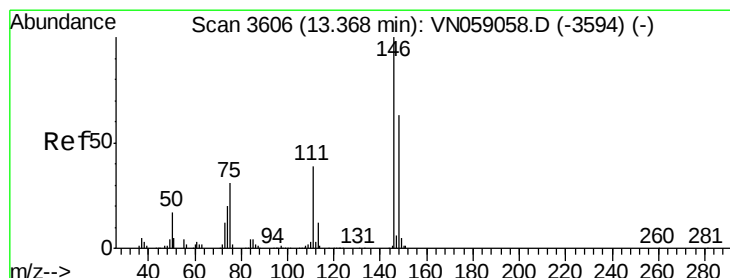
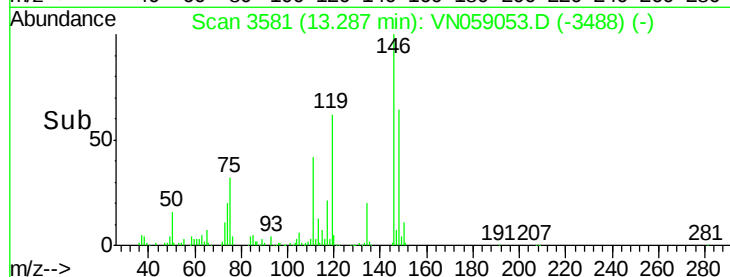
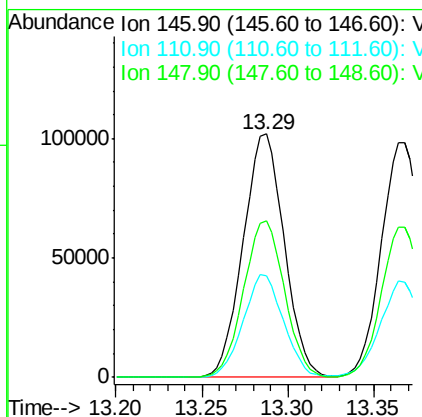
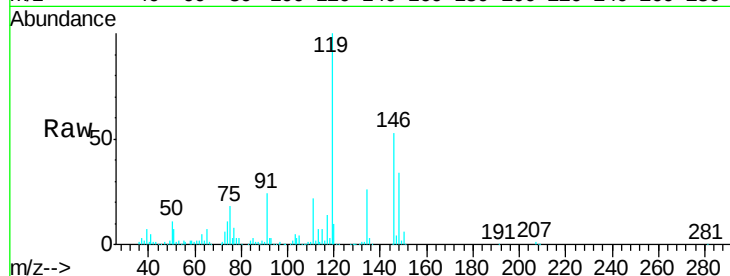
ClientSampled :

VSTDIC020

Tgt Ion:	146	Resp:	169443
Ion Ratio	Lower	Upper	
146	100		
111	41.4	20.5	61.5
148	63.9	31.8	95.3

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 20.593 ug/l

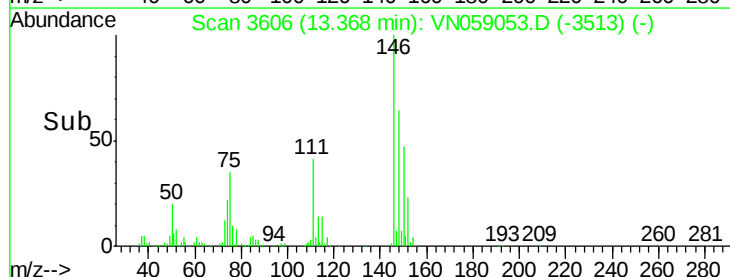
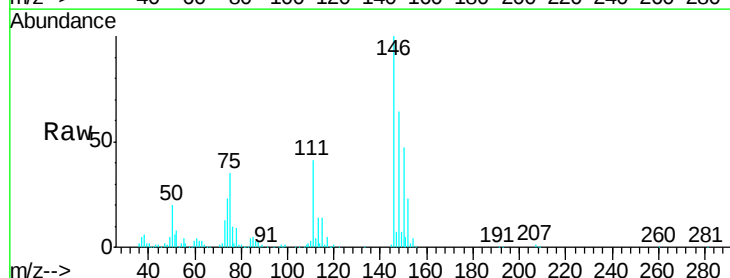
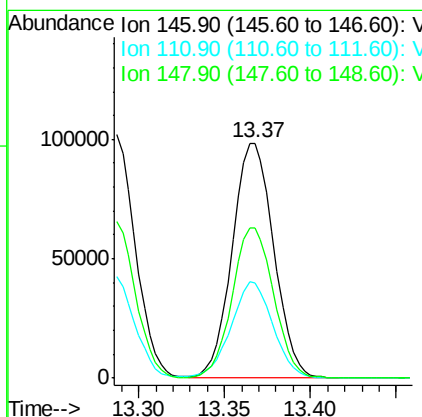
RT: 13.37 min Scan# 3606

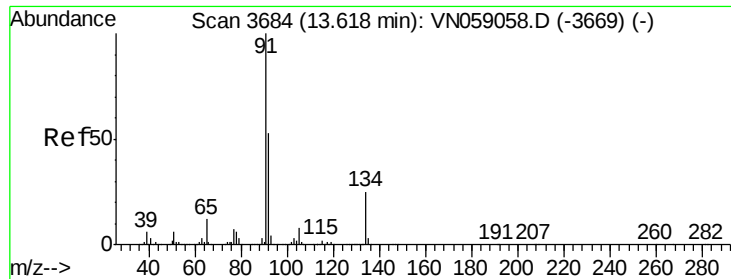
Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Tgt Ion:	146	Resp:	165135
Ion Ratio	Lower	Upper	
146	100		
111	41.9	20.1	60.2
148	64.2	31.9	95.7





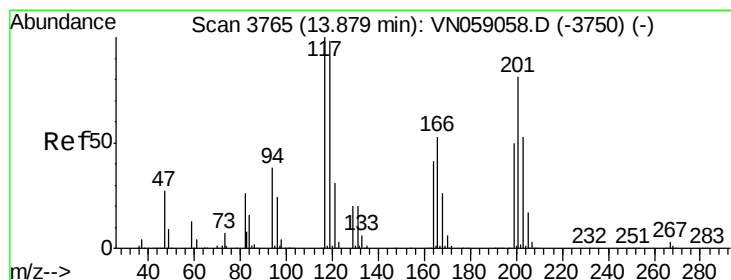
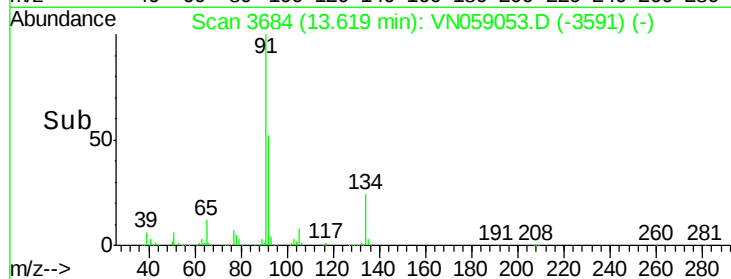
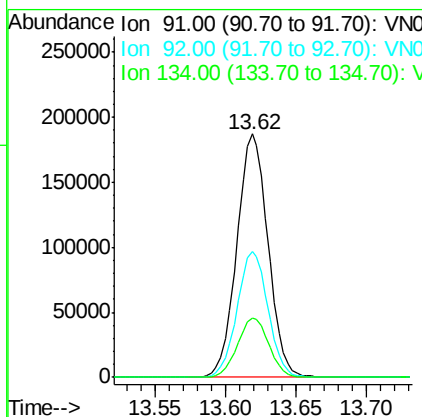
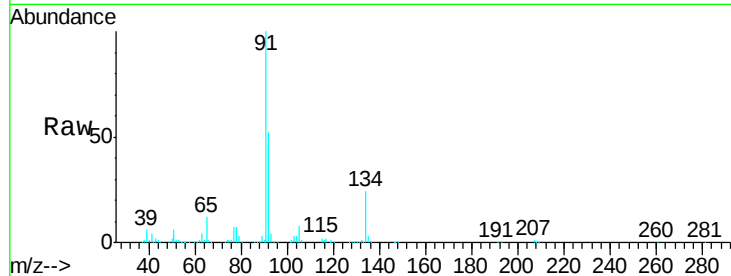
#89
n-Butylbenzene
Concen: 20.720 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	290411		
92	51.3	26.4	79.0	
134	24.5	12.5	37.5	

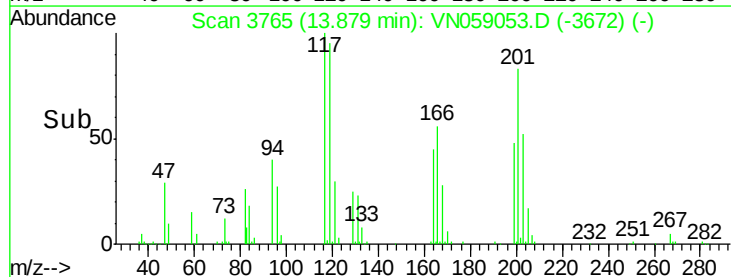
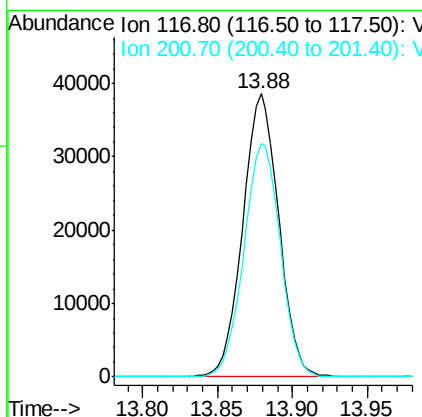
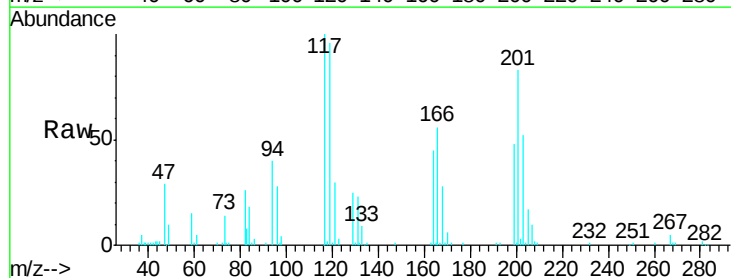
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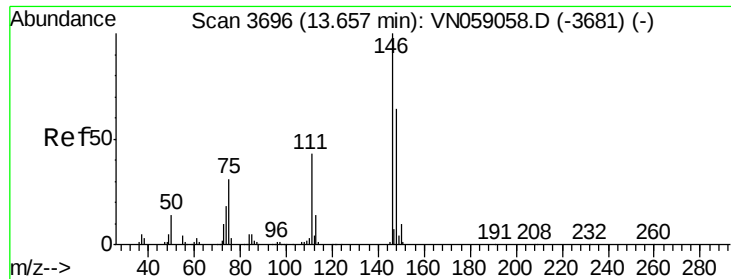
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#90
Hexachloroethane
Concen: 20.733 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	64599		
201	83.7	40.7	122.1	





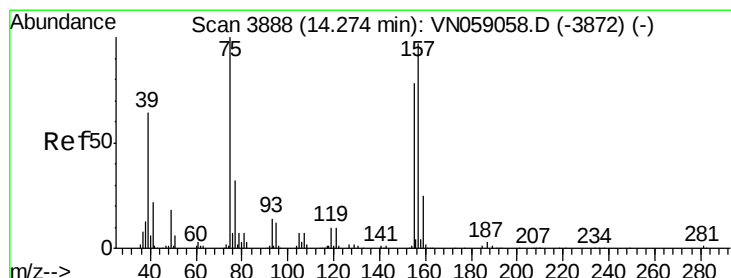
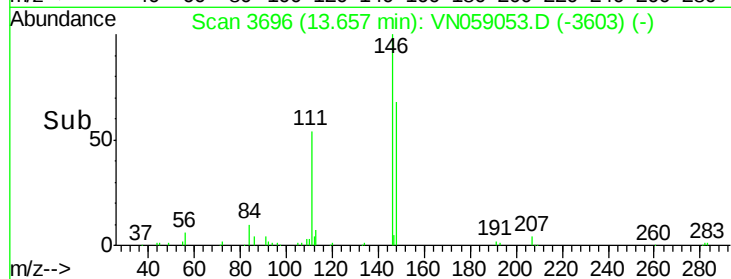
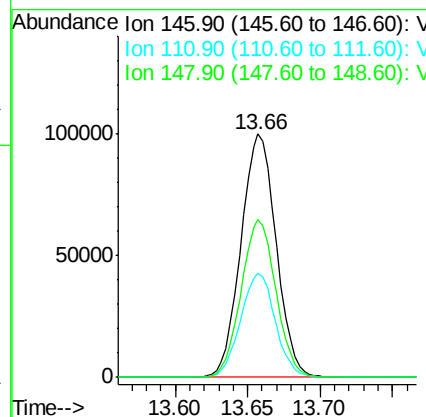
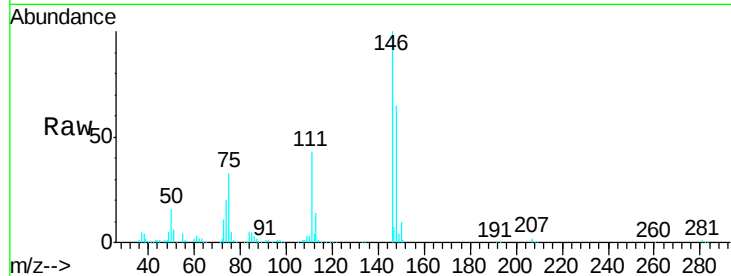
#91
 1,2-Dichlorobenzene
 Concen: 21.451 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN059053.D
 Acq: 1 Nov 2019 11:09

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	168665		
111	42.3	21.2	63.6	
148	64.2	32.1	96.3	

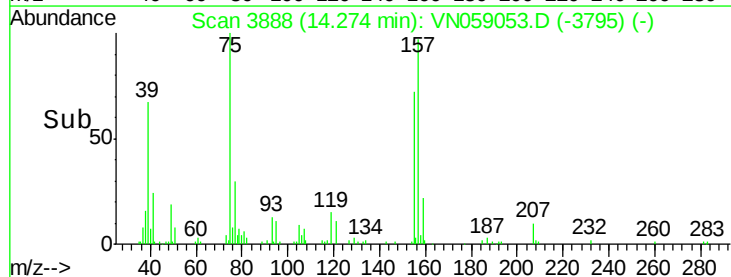
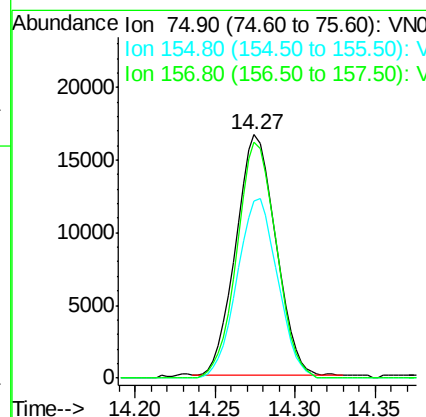
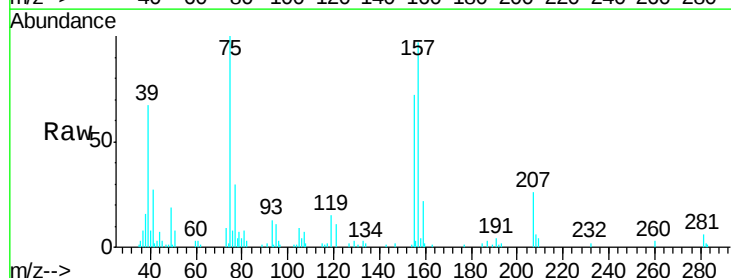
Manual Integrations
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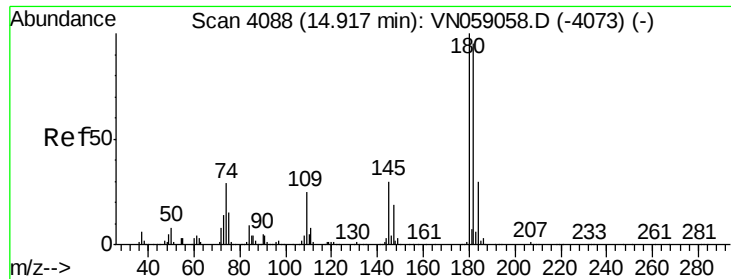
MMDadoda
 11/5/2019 1:58:45 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.787 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN059053.D
 Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	28320		
155	75.0	39.7	119.1	
157	95.8	51.0	153.0	





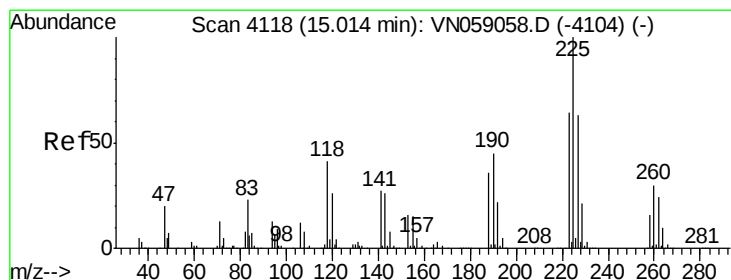
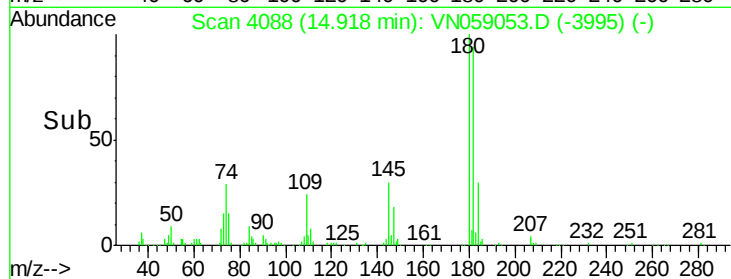
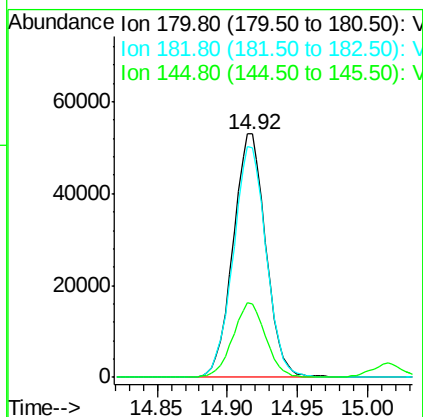
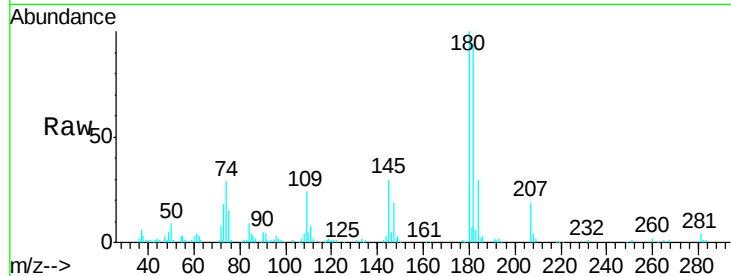
#93
1,2,4-Trichlorobenzene
Concen: 19.956 ug/l
RT: 14.92 min Scan# 4088
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	86129		
182	95.3	47.8	143.4	
145	30.8	15.1	45.3	

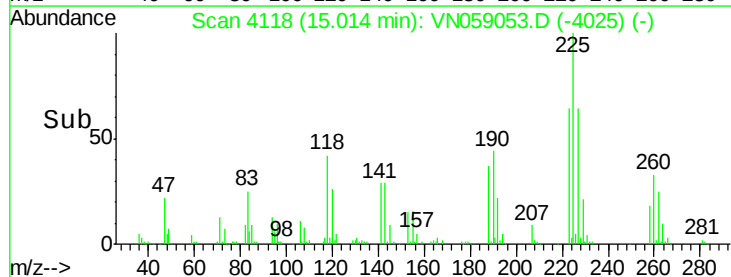
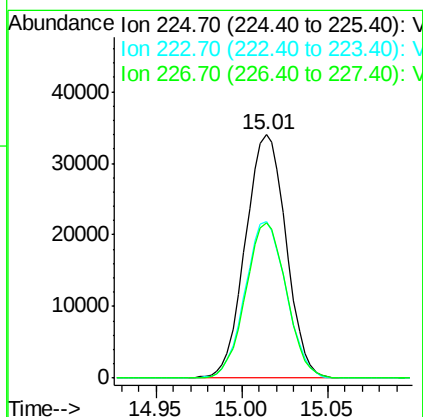
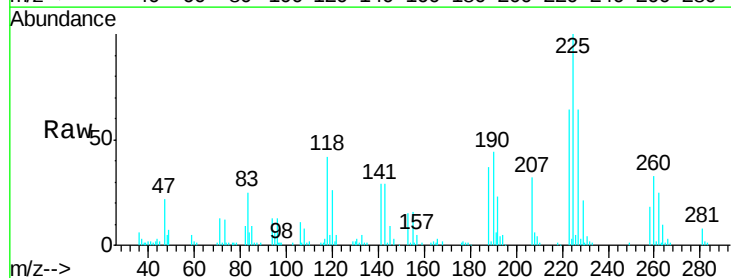
Manual Integrations
APPROVED

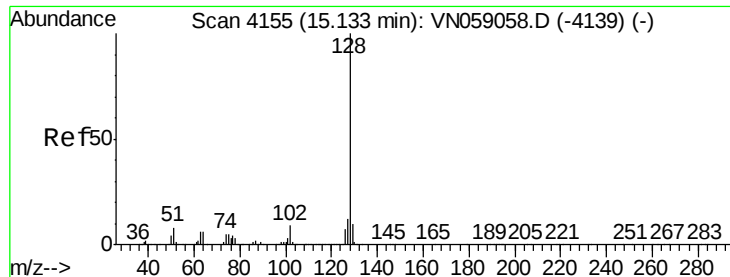
MMDadoda
11/5/2019 1:58:45 PM



#94
Hexachlorobutadiene
Concen: 21.722 ug/l
RT: 15.01 min Scan# 4118
Delta R.T. 0.00 min
Lab File: VN059053.D
Acq: 1 Nov 2019 11:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	55641		
223	65.1	31.6	95.0	
227	63.8	31.9	95.7	





#95

Naphthalene

Concen: 19.725 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Instrument :

MSVOA_N

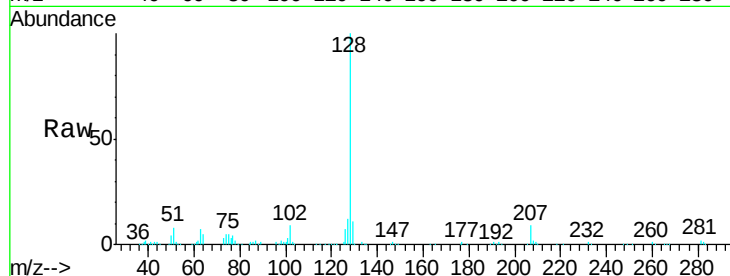
ClientSampleId :

VSTDIC020

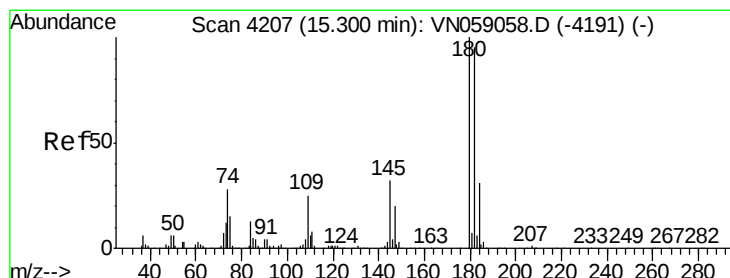
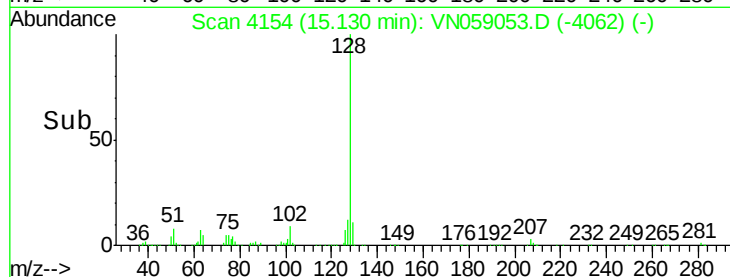
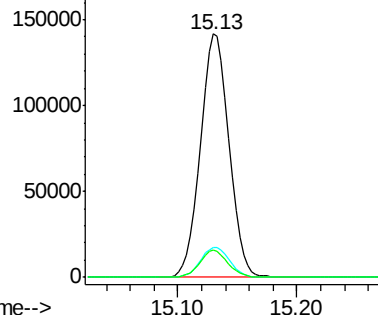
Tgt Ion:	128	Resp:	235809
Ion Ratio	Lower	Upper	
128	100		
127	12.5	9.9	14.9
129	10.8	8.4	12.6

Manual Integrations
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11/5/2019 1:58:45 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 20.830 ug/l

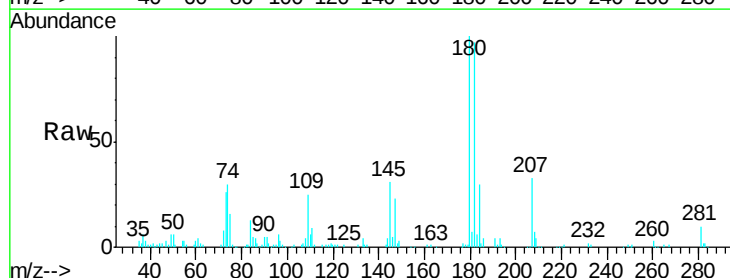
RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN059053.D

Acq: 1 Nov 2019 11:09

Tgt Ion:	180	Resp:	88471
Ion Ratio	Lower	Upper	
180	100		
182	96.4	47.7	143.1
145	32.2	16.0	48.0



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

