

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112119\
 Data File : VN059345.D
 Acq On : 21 Nov 2019 18:46
 Operator : JC/SP
 Sample : K5957-09MSD
 Misc : 5.01µl/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MSD

Manual Integrations
 APPROVED

MMDadoda
 11/22/2019 3:12:55 PM

Quant Time: Nov 22 07:11:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 21 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	385977	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	611017	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	542728	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	406006	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	247796	53.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.02%	
35) Dibromofluoromethane	7.57	113	201837	55.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.12%	
50) Toluene-d8	10.08	98	819748	56.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.50%	
62) 4-Bromofluorobenzene	12.40	95	523562	102.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	205.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	215649	43.642	ug/l	100
3) Chloromethane	2.04	50	264661	43.720	ug/l	98
4) Vinyl Chloride	2.17	62	281035	45.092	ug/l	99
5) Bromomethane	2.50	94	65788	19.013	ug/l	97
6) Chloroethane	2.62	64	80998	23.813	ug/l	97
7) Trichlorofluoromethane	2.94	101	247407	36.863	ug/l	100
8) Diethyl Ether	3.38	74	125461	45.725	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.71	101	184985	45.075	ug/l	100
10) Methyl Iodide	3.91	142	219224m	42.981	ug/l	
11) Tert butyl alcohol	4.84	59	215047m	231.929	ug/l	
12) 1,1-Dichloroethene	3.69	96	175729	42.184	ug/l	98
13) Acrolein	3.58	56	198144	234.103	ug/l	98
14) Allyl chloride	4.28	41	315645	40.560	ug/l	98
15) Acrylonitrile	4.96	53	554554	226.206	ug/l	99
16) Acetone	3.80	43	436477	210.199	ug/l	98
17) Carbon Disulfide	4.00	76	572959	43.903	ug/l	100
18) Methyl Acetate	4.29	43	324664	47.112	ug/l	98
19) Methyl tert-butyl Ether	5.01	73	626487	46.562	ug/l	98
20) Methylene Chloride	4.51	84	204382	43.641	ug/l	97
21) trans-1,2-Dichloroethene	5.00	96	197757	44.792	ug/l	99
22) Diisopropyl ether	5.92	45	666782	45.507	ug/l	99
23) Vinyl Acetate	5.86	43	2657264	230.621	ug/l	99
24) 1,1-Dichloroethane	5.81	63	372174	45.126	ug/l	100
25) 2-Butanone	6.82	43	717020	222.061	ug/l	99
26) 2,2-Dichloropropane	6.79	77	309823	43.384	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	222026	44.573	ug/l	99
28) Bromochloromethane	7.17	49	158382	47.279	ug/l	97
29) Tetrahydrofuran	7.19	42	494970	221.692	ug/l	99
30) Chloroform	7.35	83	353343	44.135	ug/l	99
31) Cyclohexane	7.63	56	356264	43.689	ug/l	99
32) 1,1,1-Trichloroethane	7.54	97	304706	44.312	ug/l	99
36) 1,1-Dichloropropene	7.77	75	286732	45.457	ug/l	100
37) Ethyl Acetate	6.91	43	291993	43.072	ug/l	98
38) Carbon Tetrachloride	7.75	117	267039	44.222	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	368081	48.391	ug/l	99
40) Benzene	8.02	78	841843	45.472	ug/l	100
41) Methacrylonitrile	7.17	41	153082m	50.867	ug/l	
42) 1,2-Dichloroethane	8.10	62	272446	44.496	ug/l	100
43) Isopropyl Acetate	8.15	43	466846	45.060	ug/l #	92
44) Trichloroethene	8.82	130	211607	45.099	ug/l	97
45) 1,2-Dichloropropane	9.10	63	223233	45.219	ug/l	100
46) Dibromomethane	9.20	93	134788	44.512	ug/l	100
47) Bromodichloromethane	9.39	83	273208	45.051	ug/l	100
48) Methyl methacrylate	9.19	41	206859	43.906	ug/l	97
49) 1,4-Dioxane	9.20	88	73790	1042.103	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	1375137	226.761	ug/l	99
52) Toluene	10.15	92	508727	45.700	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	323637	45.908	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	355698	46.498	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	222320	51.366	ug/l	99
56) Ethyl methacrylate	10.43	69	337781	46.375	ug/l	97
57) 1,3-Dichloropropane	10.70	76	340120	45.087	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	649187	242.687	ug/l	100
59) 2-Hexanone	10.75	43	1045288	235.398	ug/l	98
60) Dibromochloromethane	10.90	129	205236	44.999	ug/l	99
61) 1,2-Dibromoethane	11.00	107	202602	44.988	ug/l	99
64) Tetrachloroethene	10.63	164	179846	42.846	ug/l	98
65) Chlorobenzene	11.43	112	527742	45.223	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	188443	44.450	ug/l	100
67) Ethyl Benzene	11.51	91	1023801	49.135	ug/l	99
68) m/p-Xylenes	11.62	106	731220	94.443	ug/l	98
69) o-Xylene	11.95	106	350920	47.343	ug/l	96
70) Styrene	11.97	104	575443	49.201	ug/l	97
71) Bromoform	12.13	173	146867	45.743	ug/l #	100
73) Isopropylbenzene	12.25	105	1057632	31.799	ug/l	100
74) N-amyl acetate	12.05	43	2939317	219.900	ug/l #	58
75) 1,1,2,2-Tetrachloroethane	12.51	83	685187	62.277	ug/l #	92
76) 1,2,3-Trichloropropane	12.56	75	262758m	28.013	ug/l	
77) Bromobenzene	12.53	156	227548	28.207	ug/l	87
78) n-propylbenzene	12.59	91	1431946	38.008	ug/l	97
79) 2-Chlorotoluene	12.68	91	727938	31.479	ug/l	94
80) 1,3,5-Trimethylbenzene	12.74	105	835541	29.885	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	110357	29.427	ug/l #	65
82) 4-Chlorotoluene	12.78	91	697453	29.146	ug/l	89
83) tert-Butylbenzene	13.00	119	955856	40.479	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	1060973	38.739	ug/l	100
85) sec-Butylbenzene	13.17	105	1578856	49.747	ug/l	88
86) p-Isopropyltoluene	13.29	119	895678	31.715	ug/l	97
87) 1,3-Dichlorobenzene	13.29	146	406473	28.294	ug/l #	1
88) 1,4-Dichlorobenzene	13.37	146	410926	28.910	ug/l #	1
89) n-Butylbenzene	13.62	91	1229677	49.634	ug/l #	76
90) Hexachloroethane	13.89	117	471445	88.144	ug/l #	38
91) 1,2-Dichlorobenzene	13.66	146	403438	29.025	ug/l #	41
92) 1,2-Dibromo-3-Chloropropan	14.27	75	67752	28.965	ug/l	99

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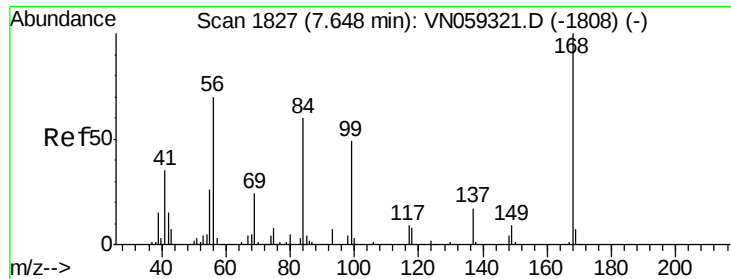
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	295413	35.102	ug/l #	19
94) Hexachlorobutadiene	15.01	225	173886	34.723	ug/l	99
95) Naphthalene	15.13	128	835753	35.870	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	283675	34.062	ug/l #	68

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059345.D

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Instrument :

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ClientSampleId :

MW-4-(12-14)MSD

Tot Ion:168 Resp: 385977

Ion Ratio Lower Upper

168 100

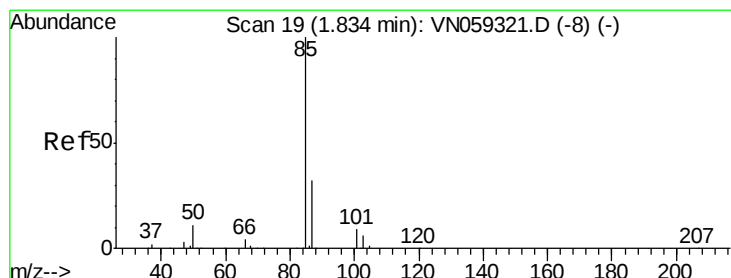
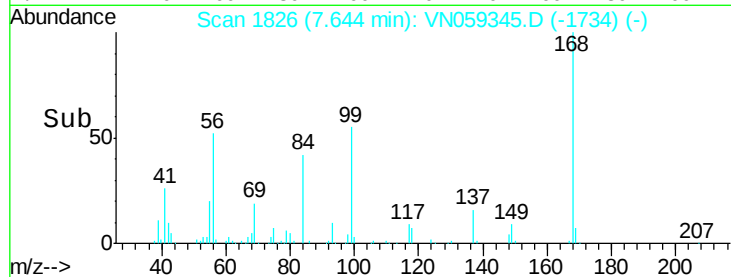
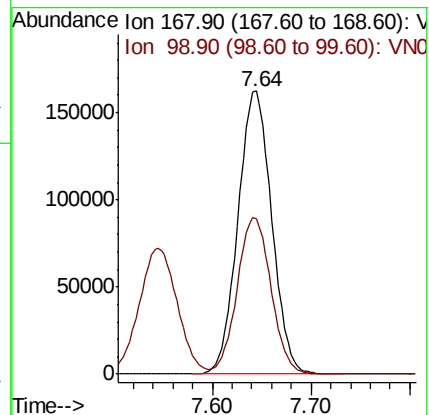
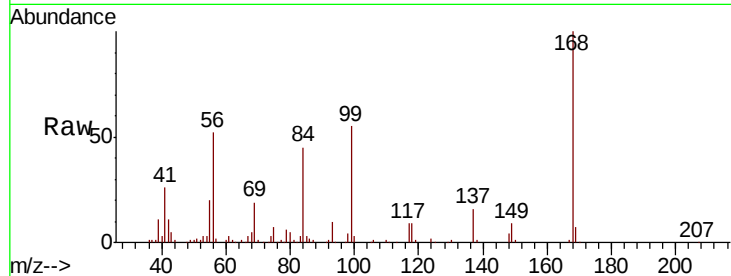
99 54.8 44.6 66.8

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 43.642 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN059345.D

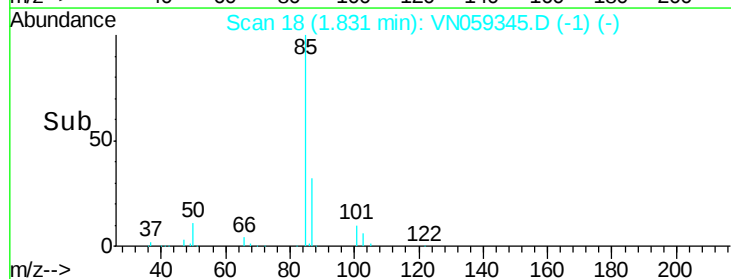
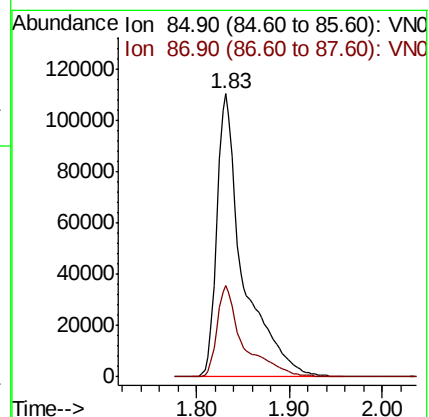
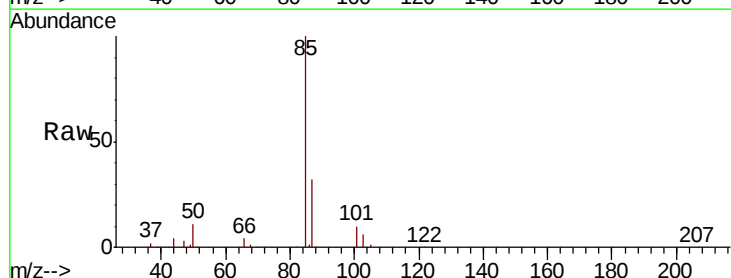
Acq: 21 Nov 2019 18:46

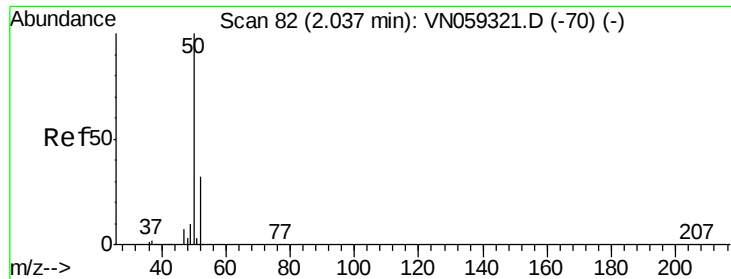
Tgt Ion: 85 Resp: 215649

Ion Ratio Lower Upper

85 100

87 32.1 16.0 48.0





#3

Chloromethane

Concen: 43.720 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 50 Resp: 264661

Ion Ratio Lower Upper

50 100

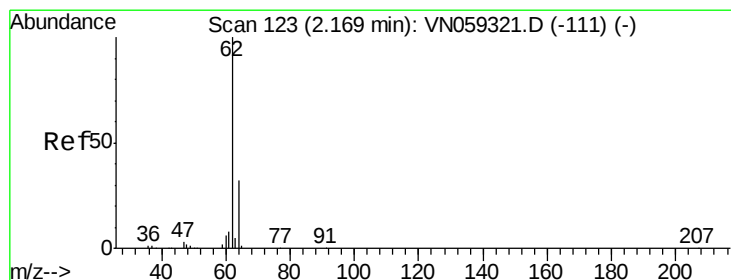
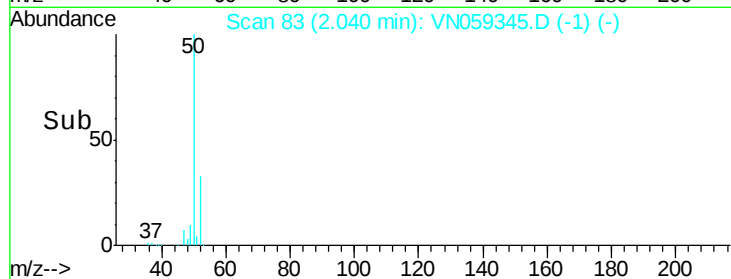
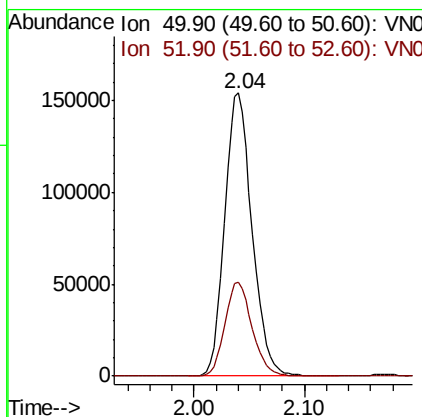
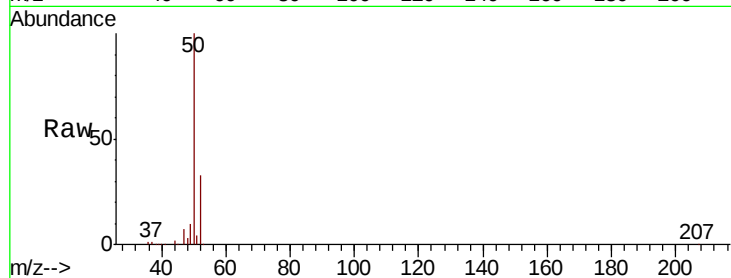
52 33.4 26.0 39.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 45.092 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN059345.D

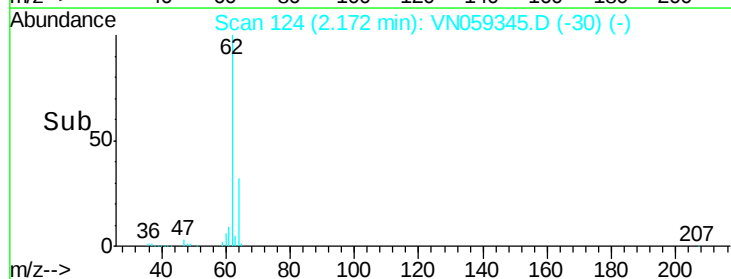
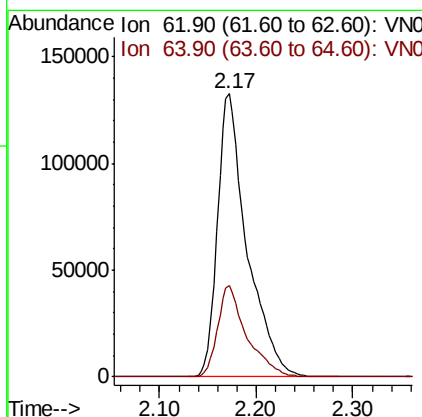
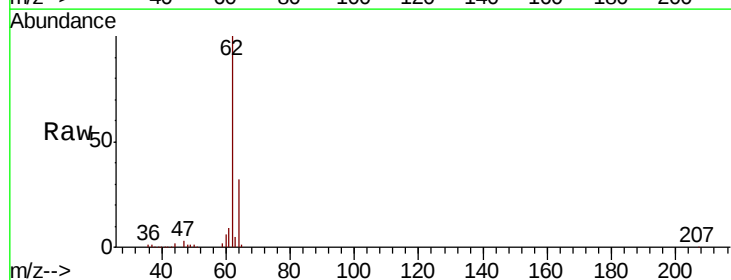
Acq: 21 Nov 2019 18:46

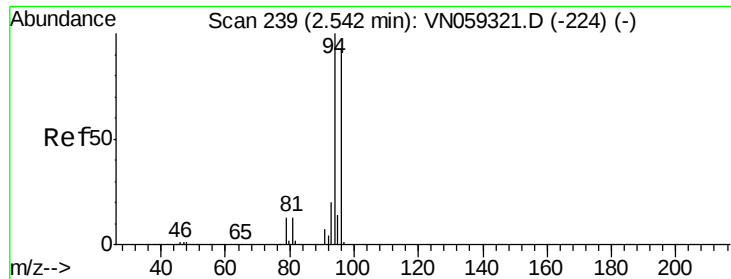
Tgt Ion: 62 Resp: 281035

Ion Ratio Lower Upper

62 100

64 32.2 25.4 38.0





#5

Bromomethane

Concen: 19.013 ug/l

RT: 2.50 min Scan# 225

Delta R.T. -0.04 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 65788

Ion Ratio Lower Upper

94 100

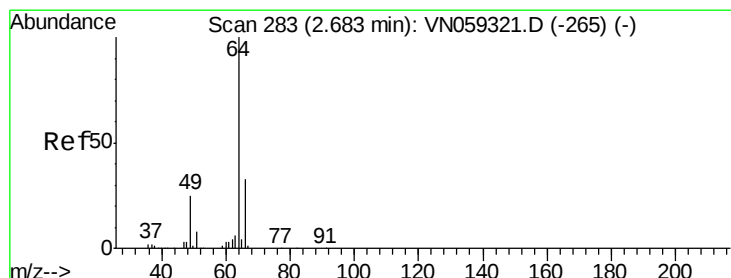
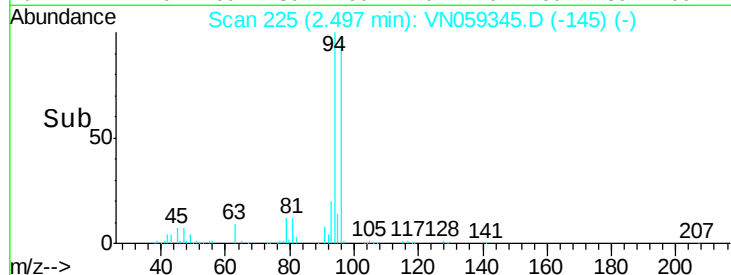
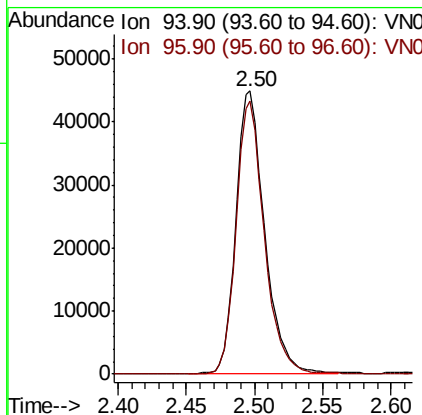
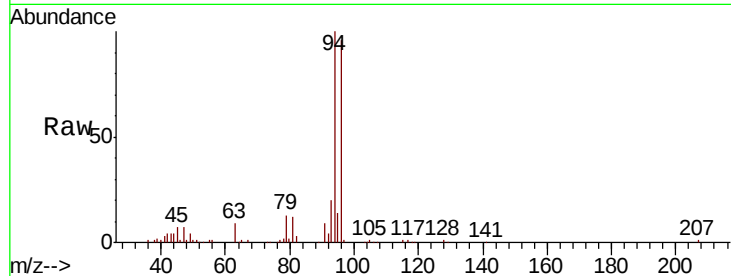
96 96.3 74.5 111.7

Manual Integrations

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#6

Chloroethane

Concen: 23.813 ug/l

RT: 2.62 min Scan# 263

Delta R.T. -0.06 min

Lab File: VN059345.D

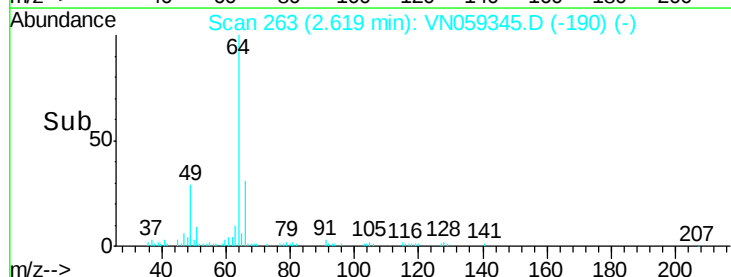
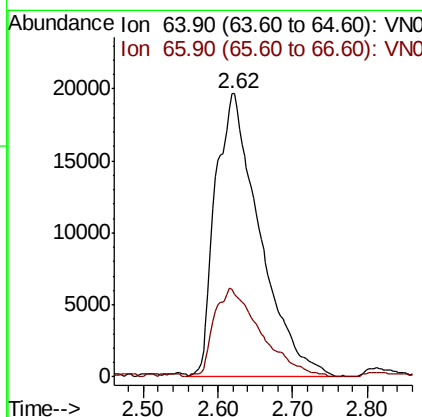
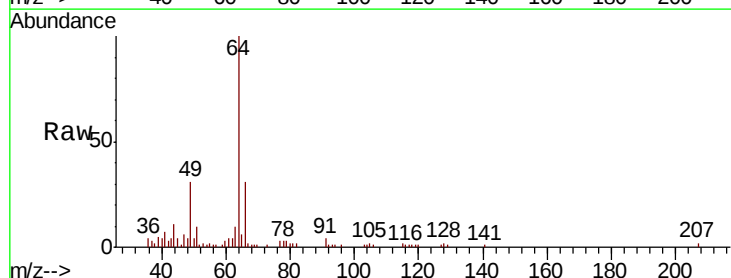
Acq: 21 Nov 2019 18:46

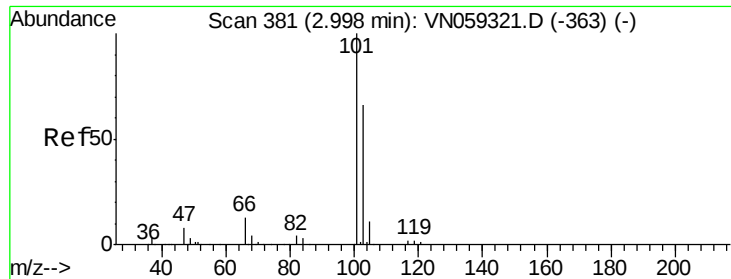
Tgt Ion: 64 Resp: 80998

Ion Ratio Lower Upper

64 100

66 31.1 26.2 39.2





#7

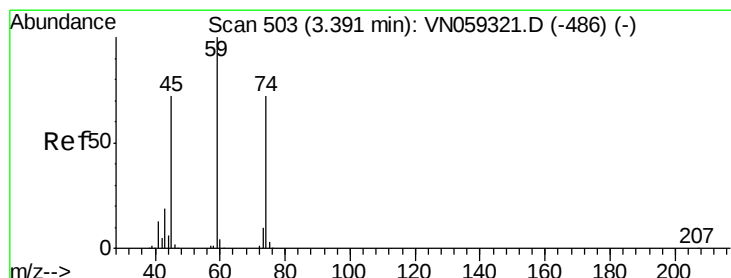
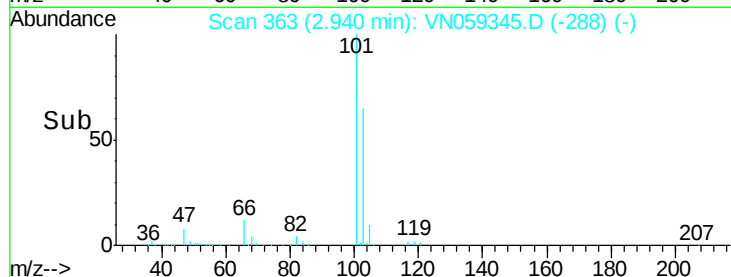
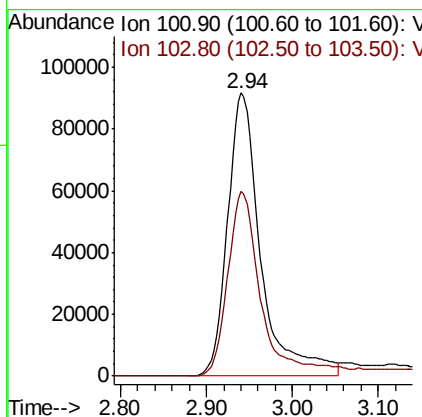
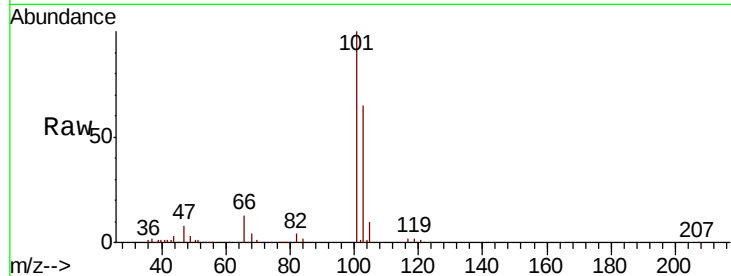
Trichlorofluoromethane
Concen: 36.863 ug/l
RT: 2.94 min Scan# 363
Delta R.T. -0.06 min
Lab File: VN059345.D
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		247407		
103	65.2	52.5	78.7		

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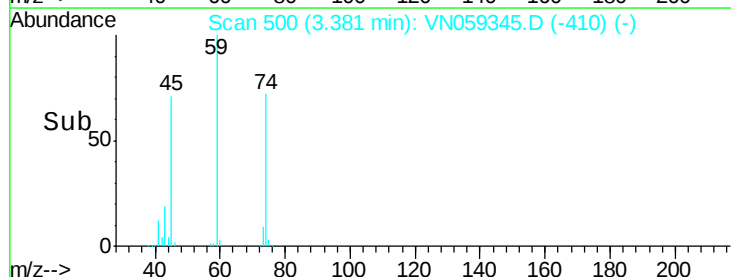
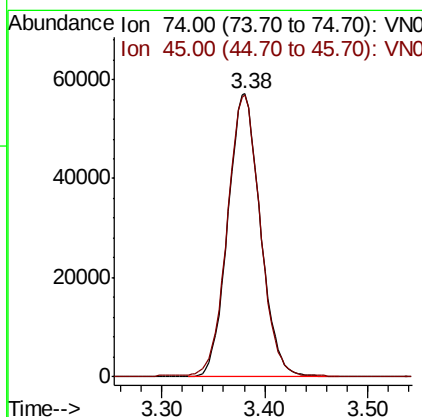
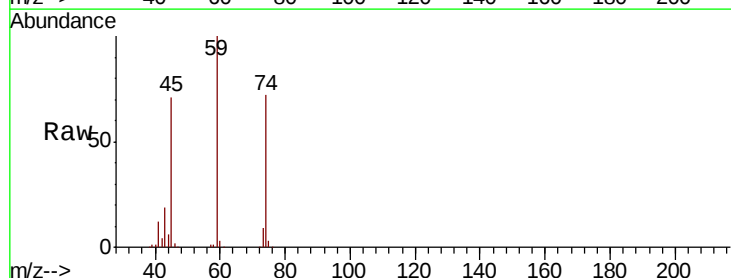
MMDadoda
11/22/2019 3:12:55 PM

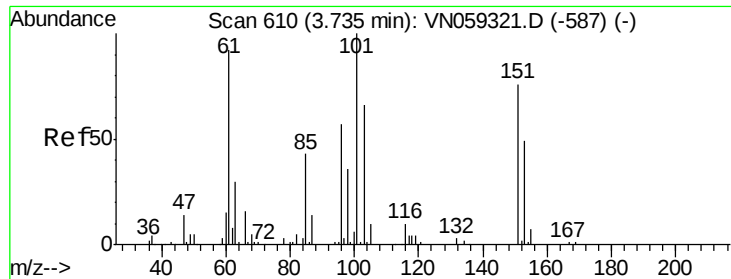


#8

Diethyl Ether
Concen: 45.725 ug/l
RT: 3.38 min Scan# 500
Delta R.T. -0.01 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		125461		
45	100.0	51.7	155.2		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.075 ug/l

RT: 3.71 min Scan# 602

Delta R.T. -0.03 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

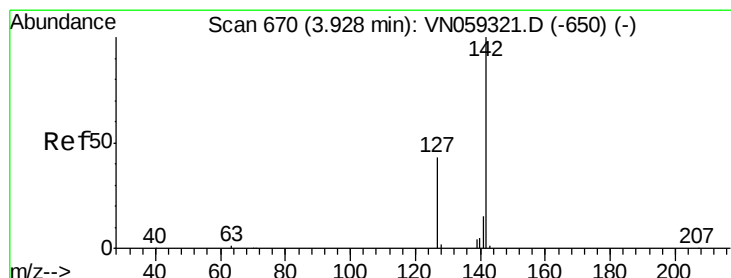
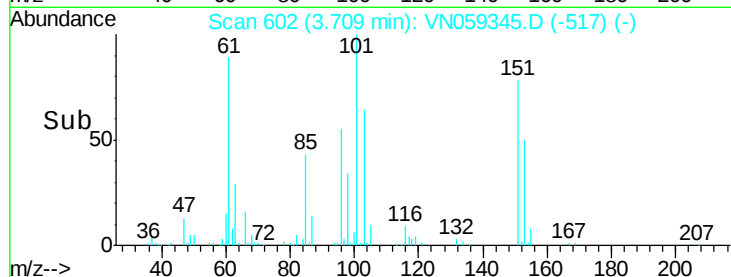
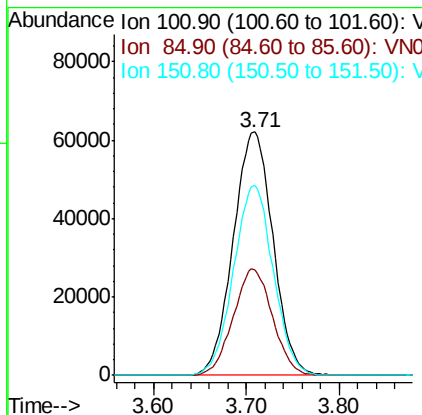
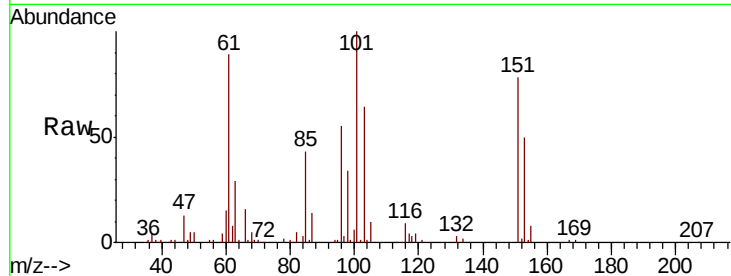
ClientSampleId :

MW-4-(12-14)MSD

Tot Ion:	101	Resp:	184985
Ion Ratio	Lower	Upper	
101	100		
85	43.1	34.8	52.2
151	78.0	62.2	93.4

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#10

Methyl Iodide

Concen: 42.981 ug/l m

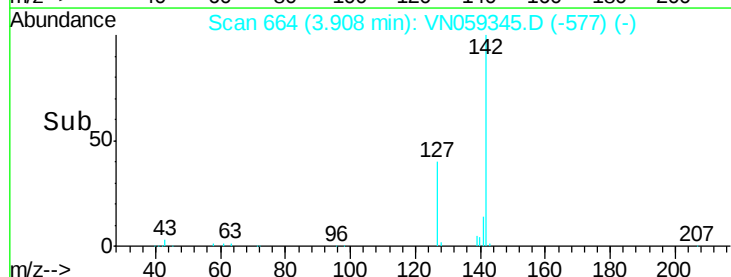
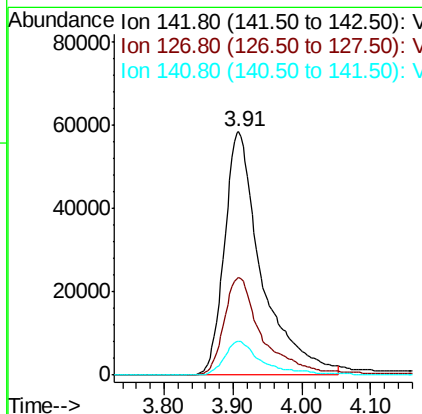
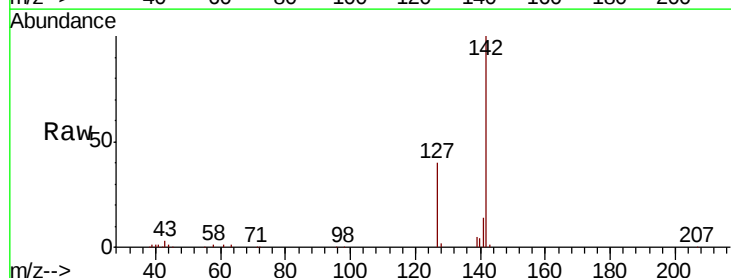
RT: 3.91 min Scan# 664

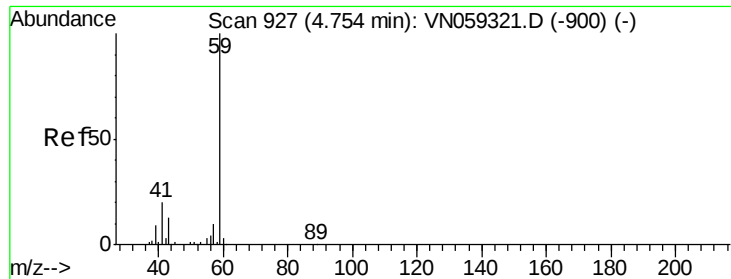
Delta R.T. -0.02 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Tgt Ion:	142	Resp:	219224
Ion Ratio	Lower	Upper	
142	100		
127	0.0	33.8	50.6#
141	0.0	11.2	16.8#





#11

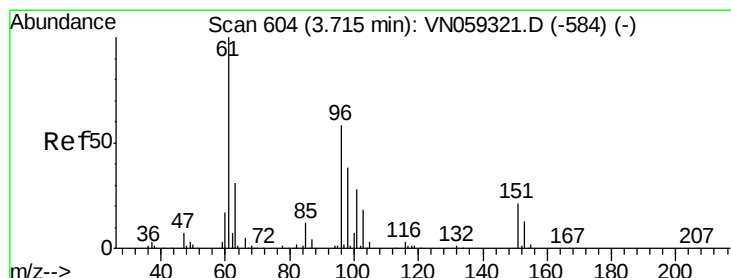
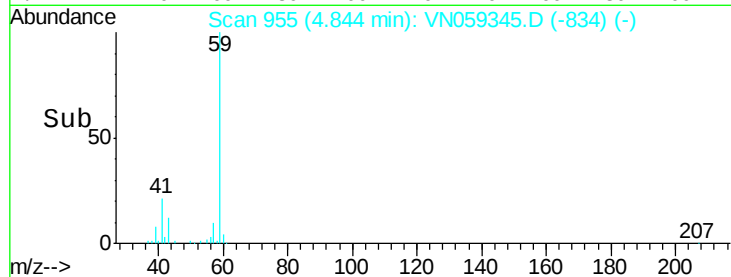
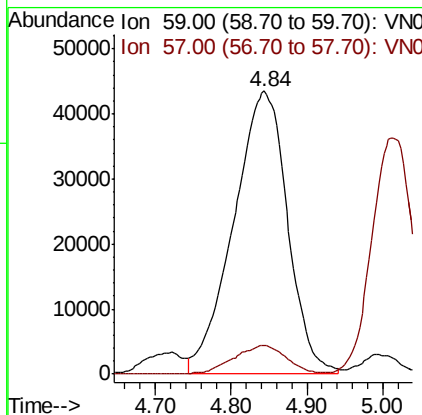
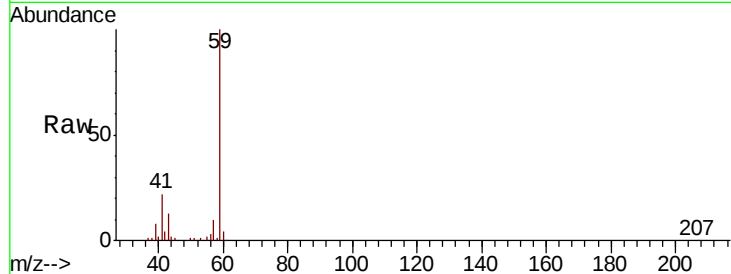
Tert butyl alcohol
Concen: 231.929 ug/l m
RT: 4.84 min Scan# 955
Delta R.T. 0.09 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion: 59 Resp: 215047
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

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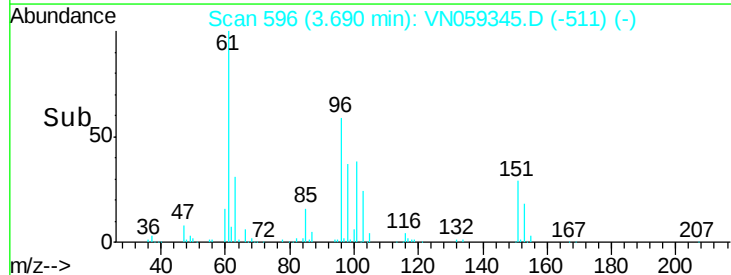
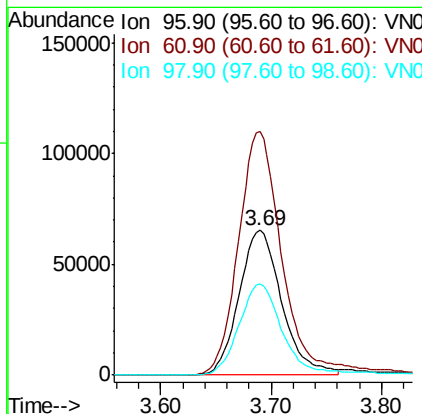
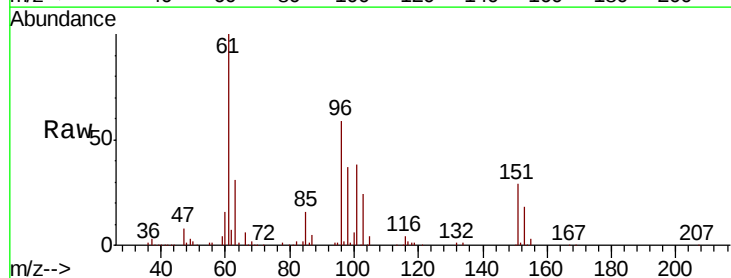
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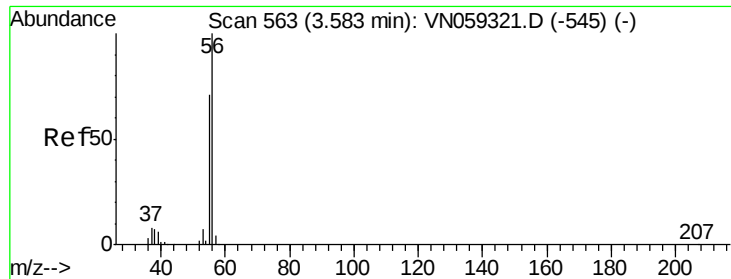


#12

1,1-Dichloroethene
Concen: 42.184 ug/l
RT: 3.69 min Scan# 596
Delta R.T. -0.03 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion: 96 Resp: 175729
Ion Ratio Lower Upper
96 100
61 168.3 136.8 205.2
98 62.7 51.6 77.4





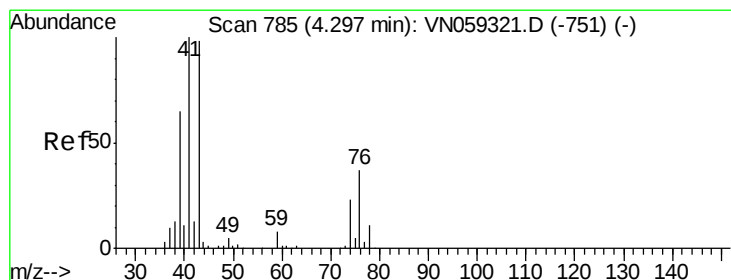
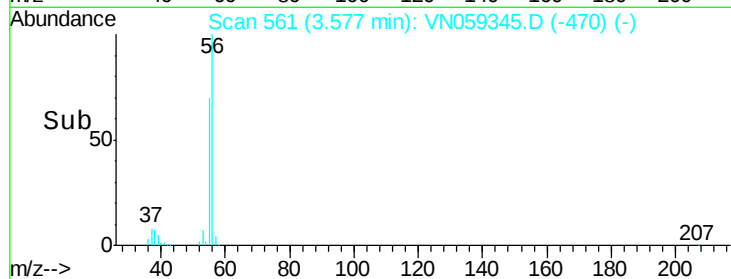
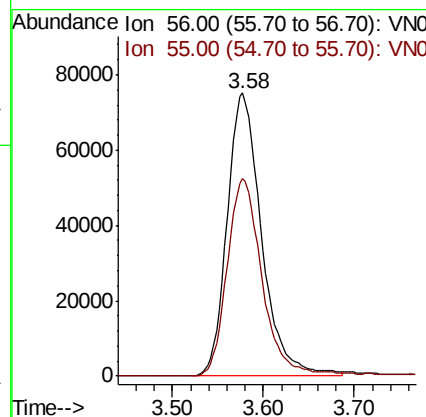
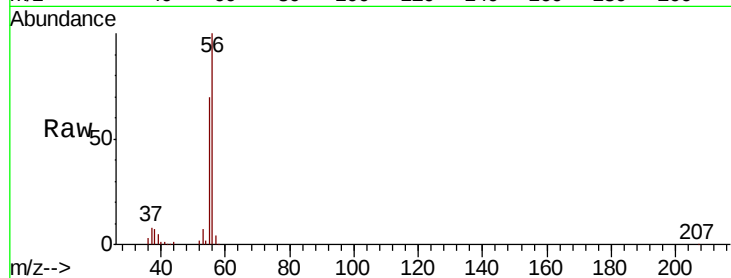
#13
Acrolein
Concen: 234.103 ug/l
RT: 3.58 min Scan# 561
Delta R.T. -0.01 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	69.9	57.4	86.0	

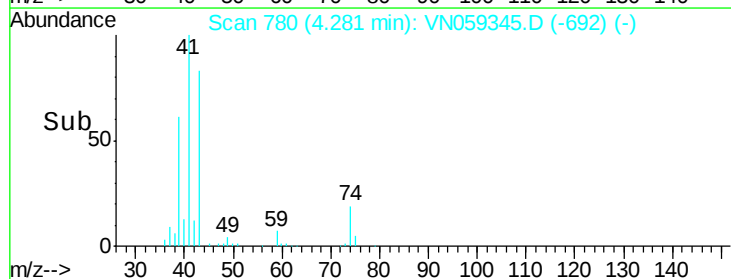
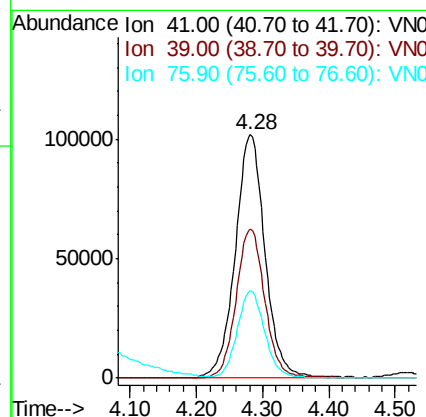
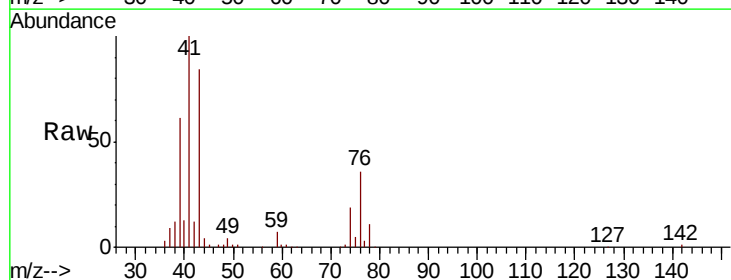
Manual Integrations
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#14
Allyl chloride
Concen: 40.560 ug/l
RT: 4.28 min Scan# 780
Delta R.T. -0.02 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	58.6	48.4	72.6	
76	33.7	26.2	39.4	





#15

Acrylonitrile

Concen: 226.206 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

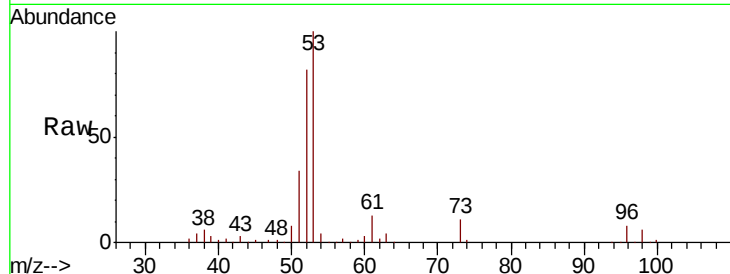
ClientSampleId :

MW-4-(12-14)MSD

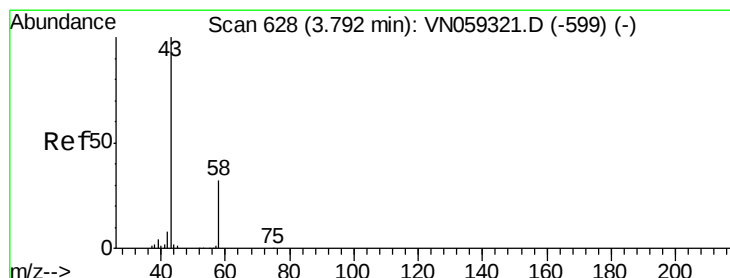
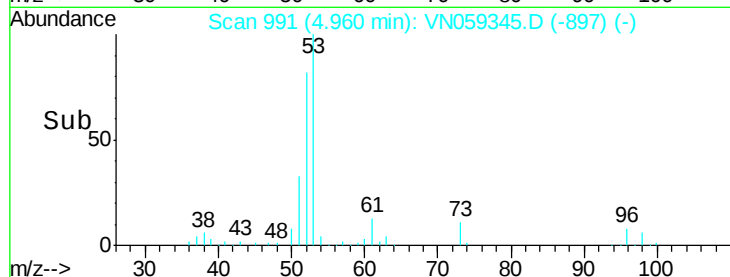
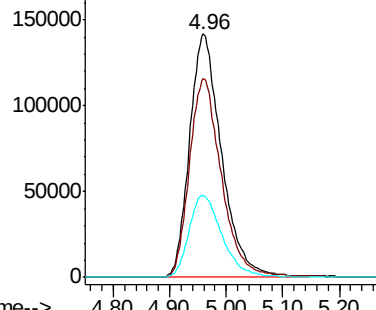
Tot Ion:	53	Resp:	554554
Ion Ratio	Lower	Upper	
53	100		
52	81.7	65.8	98.8
51	35.1	28.2	42.2

Manual Integrations
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Abundance Ion 53.00 (52.70 to 53.70): VN059321.D (-968) (-)



#16

Acetone

Concen: 210.199 ug/l

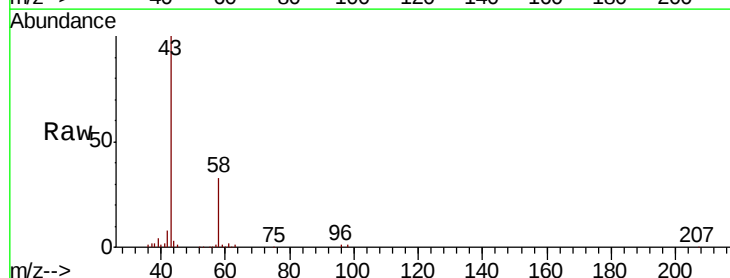
RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

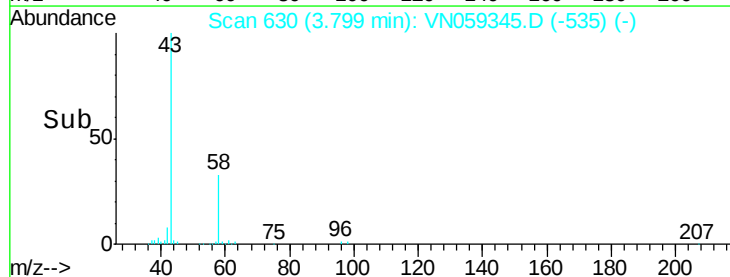
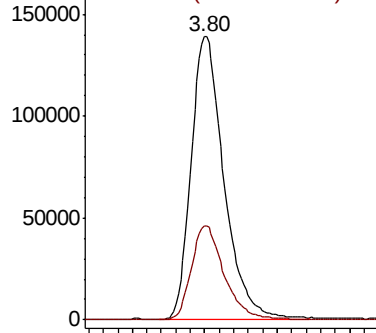
Lab File: VN059345.D

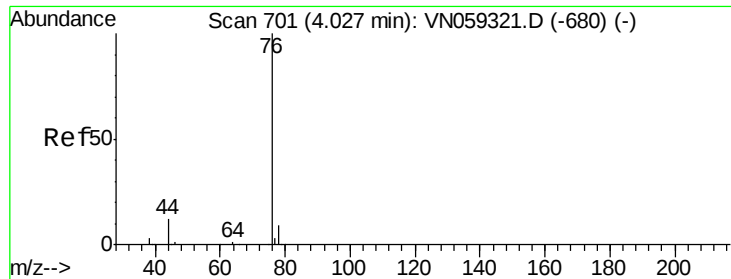
Acq: 21 Nov 2019 18:46

Tgt Ion:	43	Resp:	436477
Ion Ratio	Lower	Upper	
43	100		
58	33.3	25.8	38.6



Abundance Ion 43.00 (42.70 to 43.70): VN059321.D (-599) (-)





#17

Carbon Disulfide

Concen: 43.903 ug/l

RT: 4.00 min Scan# 694

Delta R.T. -0.02 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 76 Resp: 572959

Ion Ratio Lower Upper

76 100

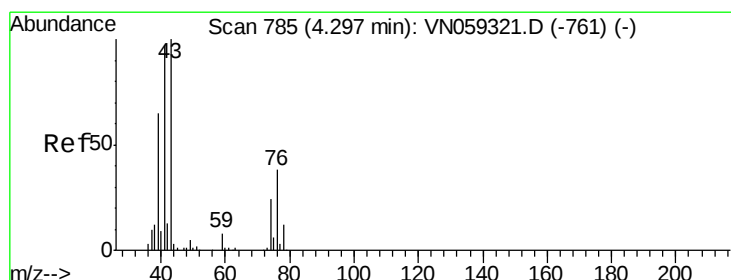
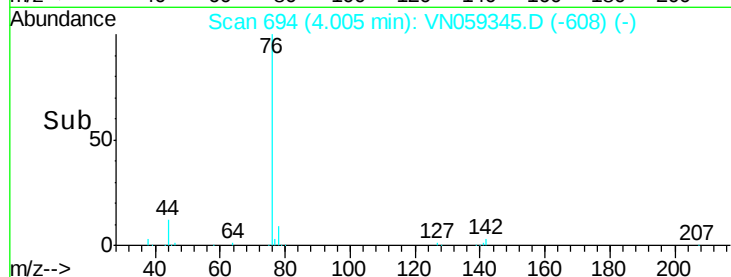
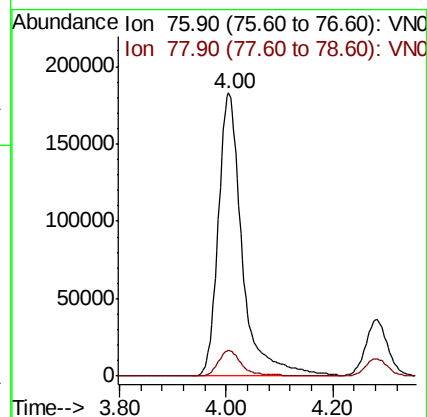
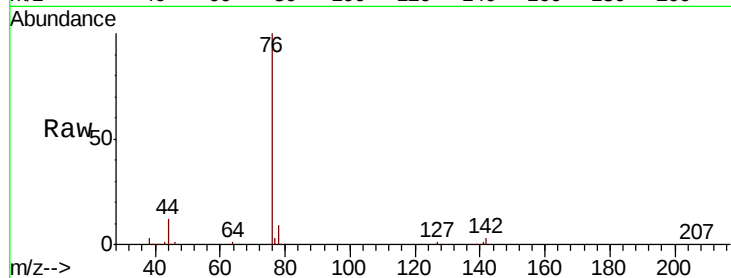
78 9.1 7.2 10.8

Manual Integrations

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#18

Methyl Acetate

Concen: 47.112 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.00 min

Lab File: VN059345.D

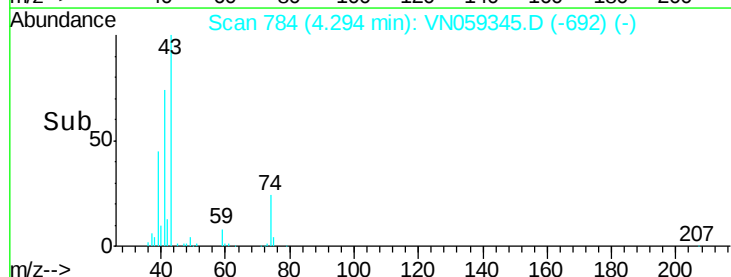
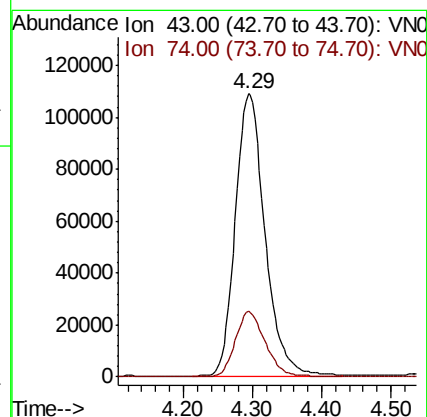
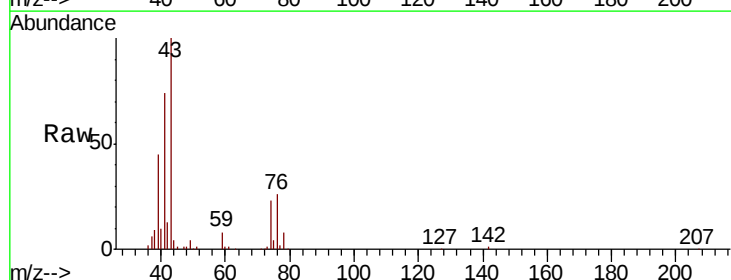
Acq: 21 Nov 2019 18:46

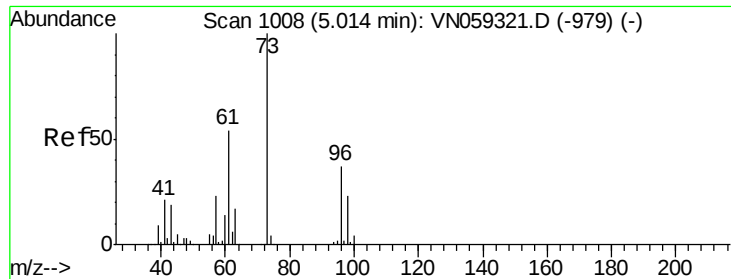
Tgt Ion: 43 Resp: 324664

Ion Ratio Lower Upper

43 100

74 23.6 18.1 27.1





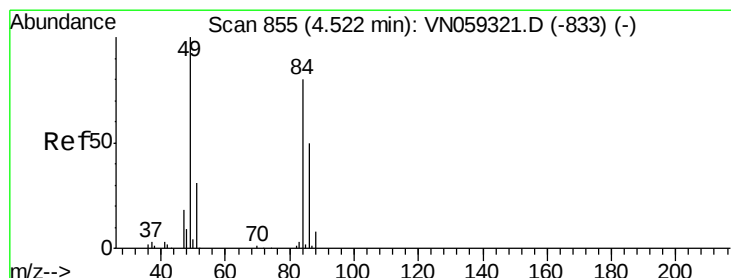
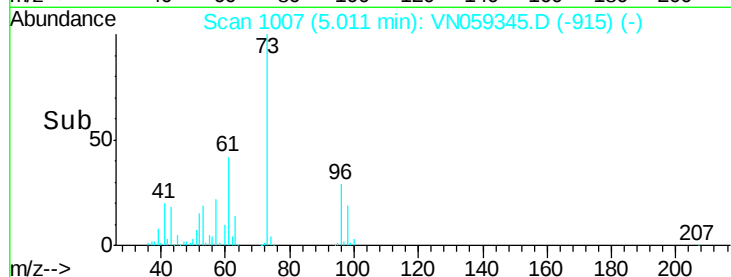
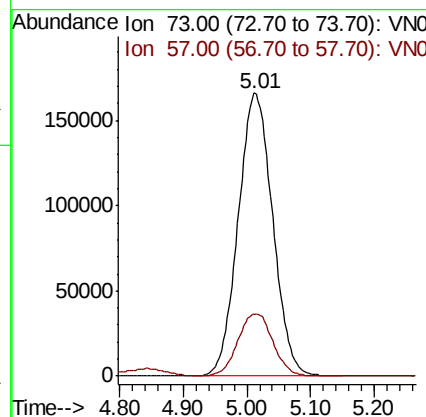
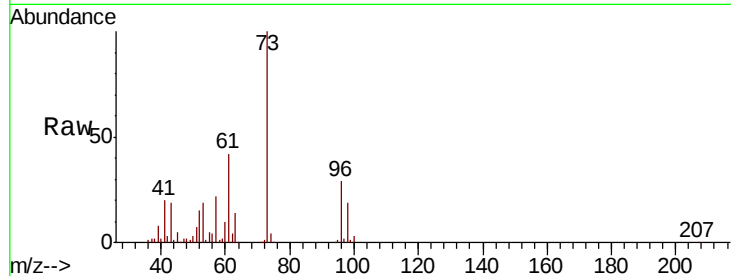
#19
Methvl tert-butvl Ether
Concen: 46.562 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion: 73 Resp: 626487
Ion Ratio Lower Upper
73 100
57 21.9 18.4 27.6

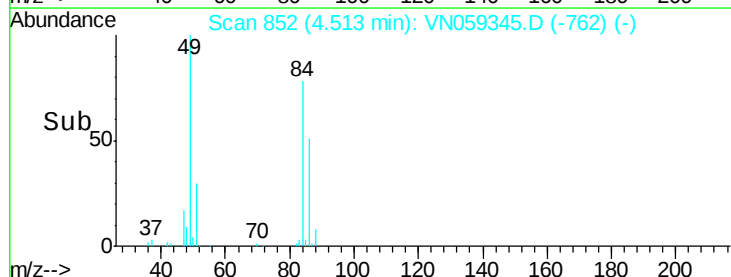
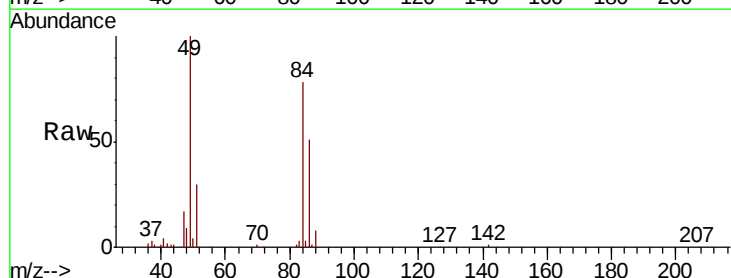
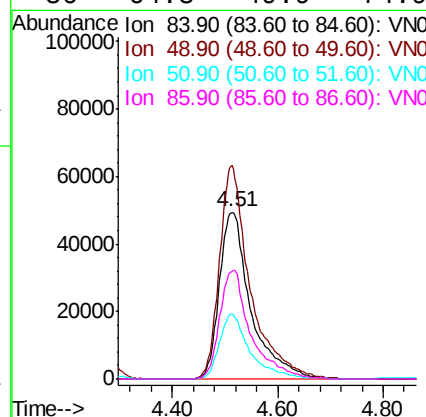
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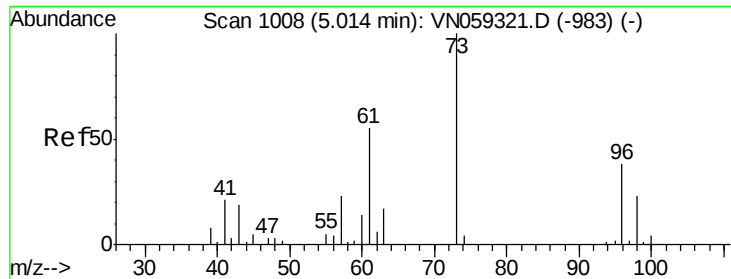
MMDadoda
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#20
Methylene Chloride
Concen: 43.641 ug/l
RT: 4.51 min Scan# 852
Delta R.T. -0.01 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion: 84 Resp: 204382
Ion Ratio Lower Upper
84 100
49 128.2 99.5 149.3
51 38.9 31.1 46.7
86 64.8 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 44.792 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. -0.02 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 96 Resp: 197757

Ion Ratio Lower Upper

96 100

61 143.9 116.4 174.6

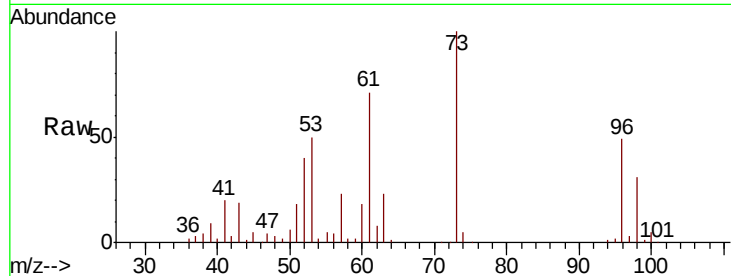
98 63.5 49.6 74.4

Manual Integrations

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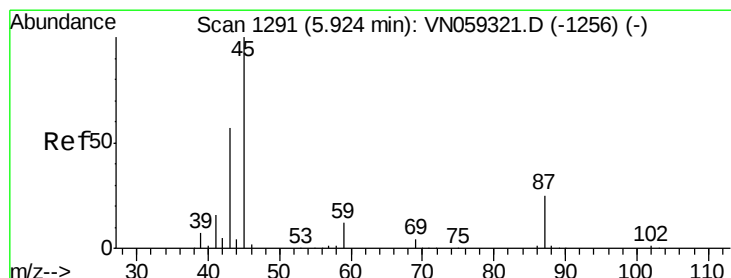
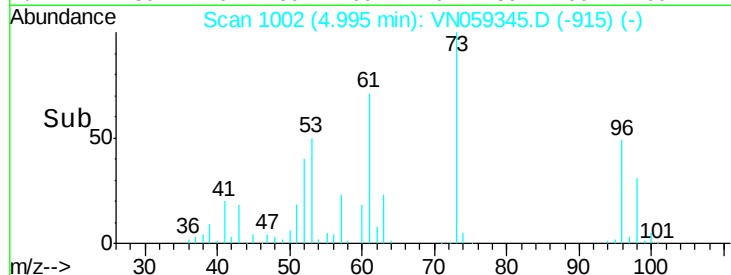
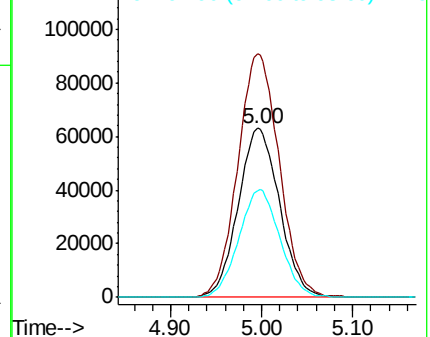


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 45.507 ug/l

RT: 5.92 min Scan# 1291

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Tgt Ion: 45 Resp: 666782

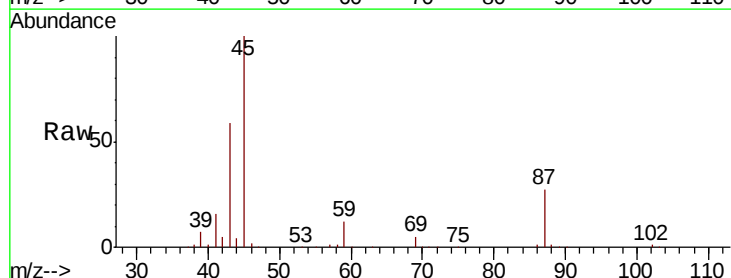
Ion Ratio Lower Upper

45 100

43 58.5 47.6 71.4

87 26.8 20.7 31.1

59 12.2 9.4 14.2



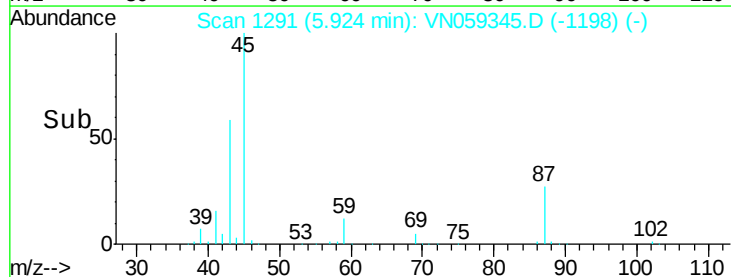
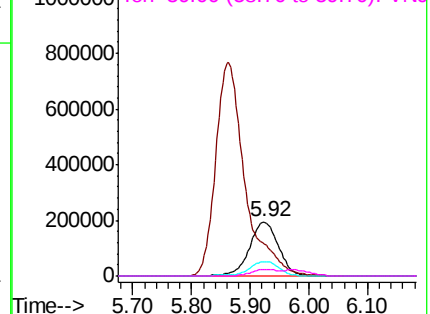
Abundance

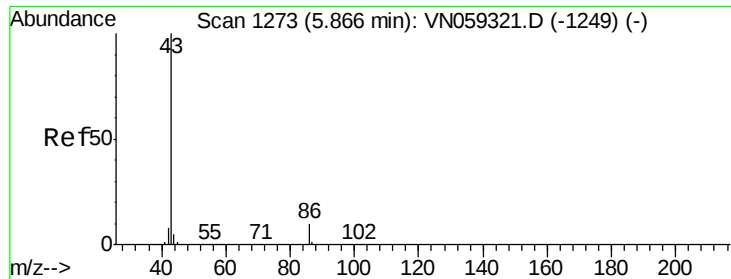
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 230.621 ug/l

RT: 5.86 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 43 Resp: 2657264

Ion Ratio Lower Upper

43 100

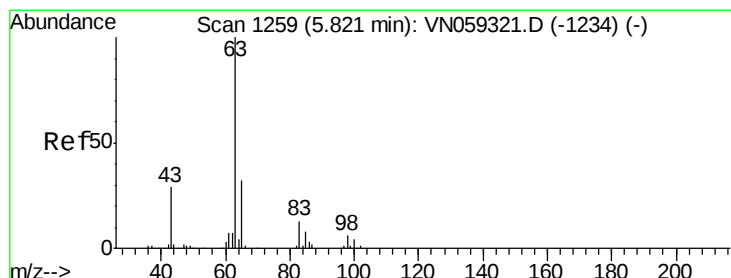
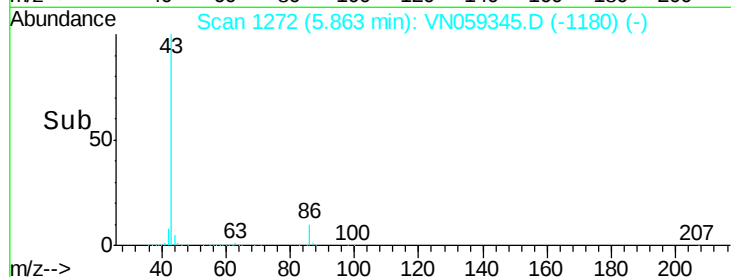
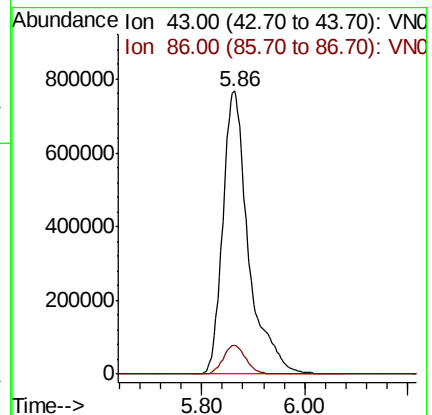
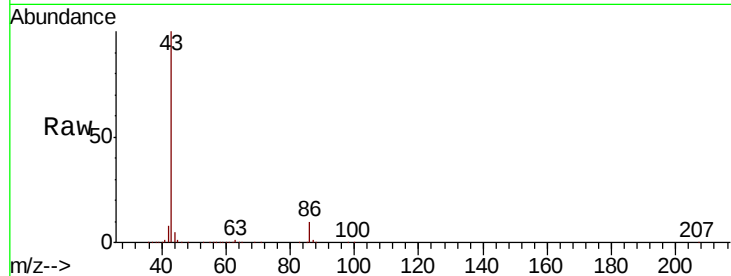
86 10.2 8.0 12.0

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 45.126 ug/l

RT: 5.81 min Scan# 1256

Delta R.T. -0.01 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

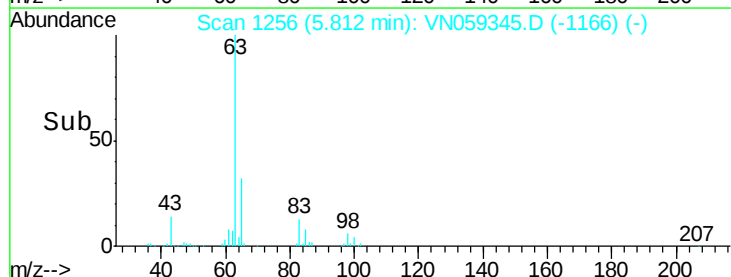
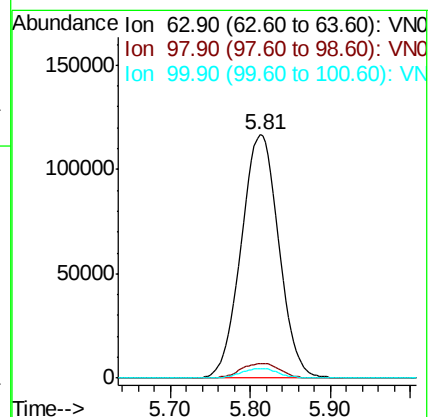
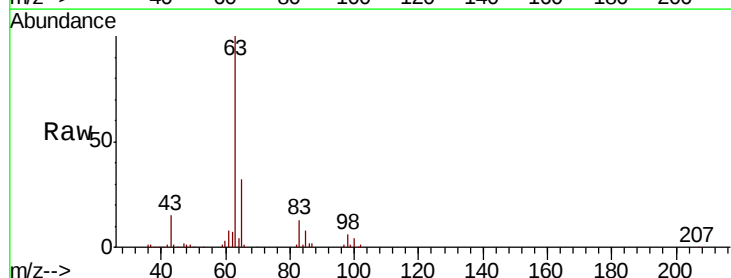
Tgt Ion: 63 Resp: 372174

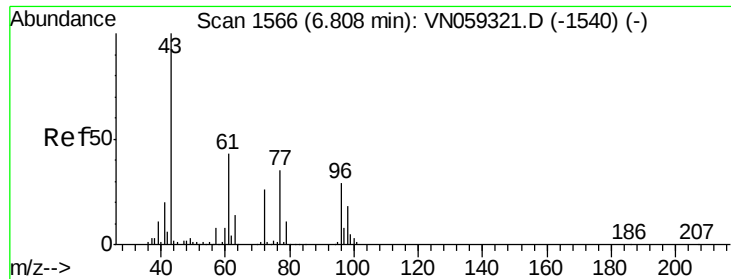
Ion Ratio Lower Upper

63 100

98 5.9 2.9 8.8

100 3.8 1.9 5.7





#25

2-Butanone

Concen: 222.061 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 43 Resp: 717020

Ion Ratio Lower Upper

43 100

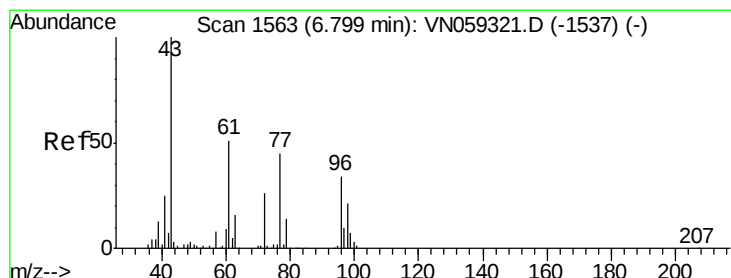
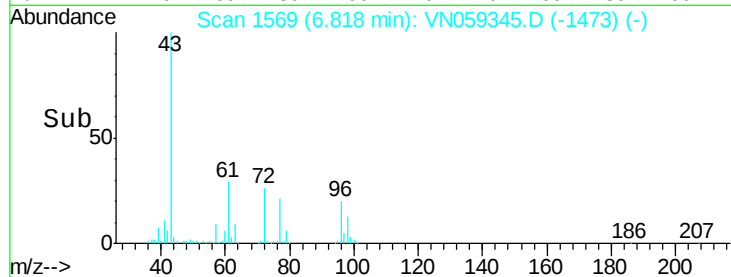
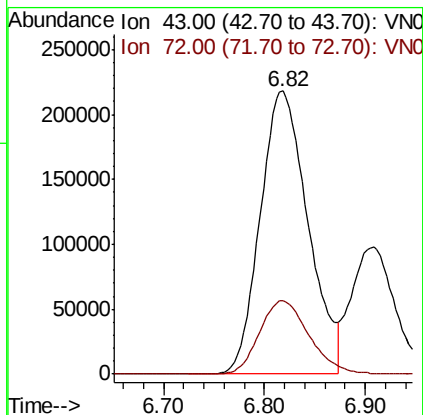
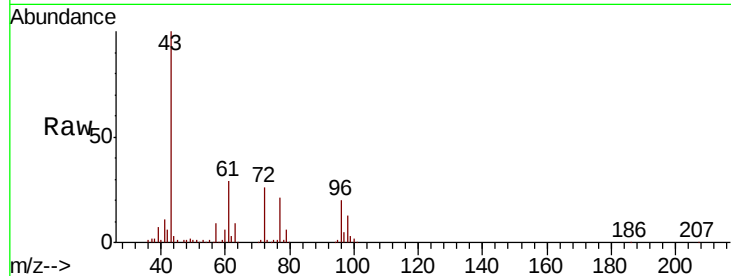
72 26.1 20.5 30.7

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 43.384 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.01 min

Lab File: VN059345.D

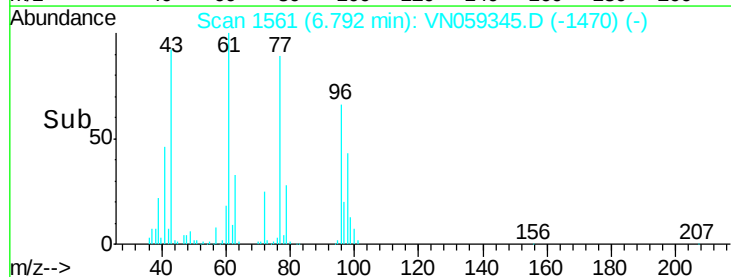
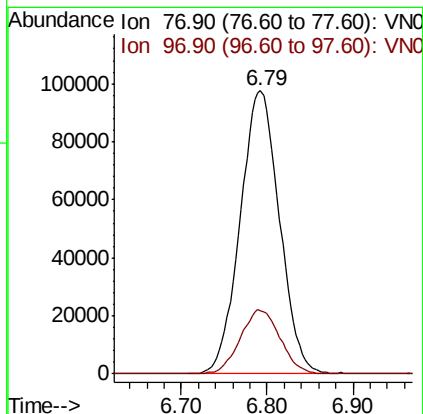
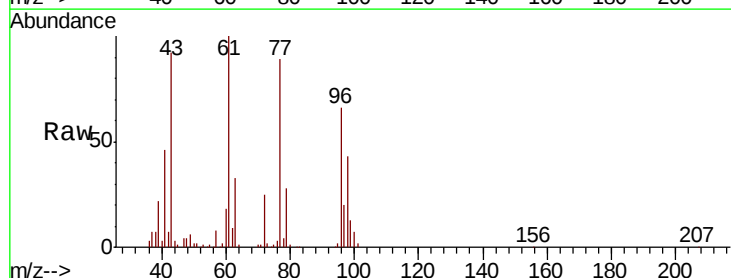
Acq: 21 Nov 2019 18:46

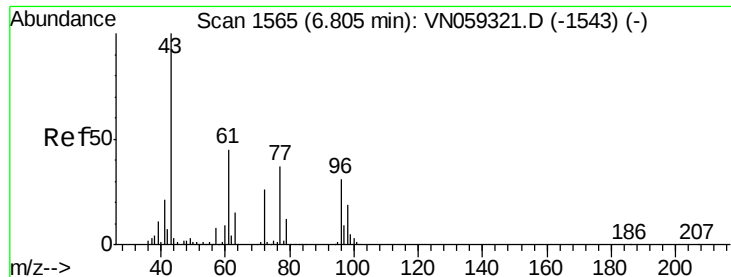
Tgt Ion: 77 Resp: 309823

Ion Ratio Lower Upper

77 100

97 23.0 11.5 34.4





#27

cis-1,2-Dichloroethene

Concen: 44.573 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

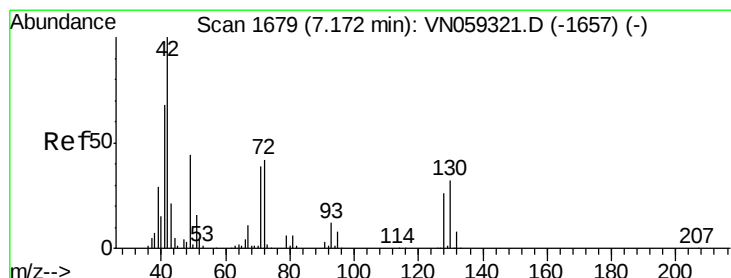
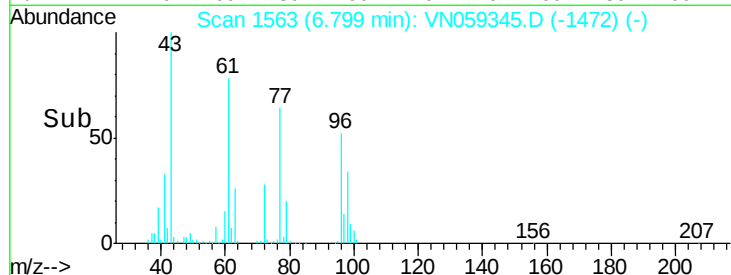
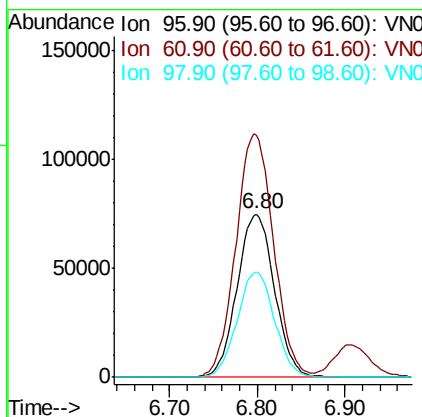
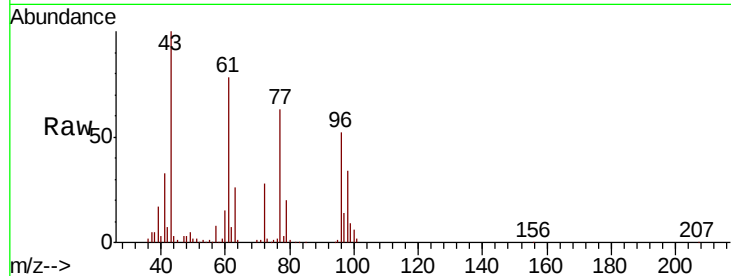
ClientSampleId :

MW-4-(12-14)MSD

Tot Ion:	96	Resp:	222026
Ion Ratio	Lower	Upper	
96	100		
61	151.0	0.0	304.0
98	64.6	0.0	128.4

Manual Integrations
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#28

Bromochloromethane

Concen: 47.279 ug/l

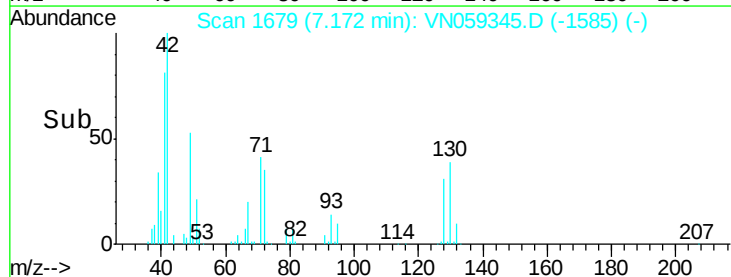
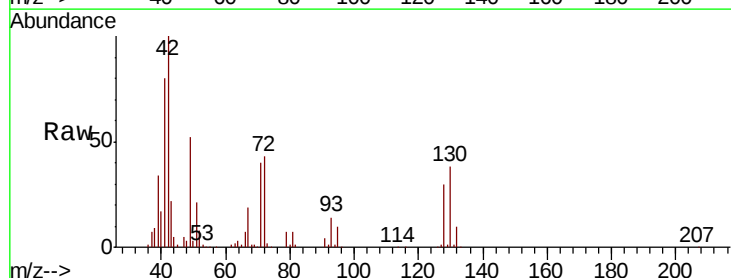
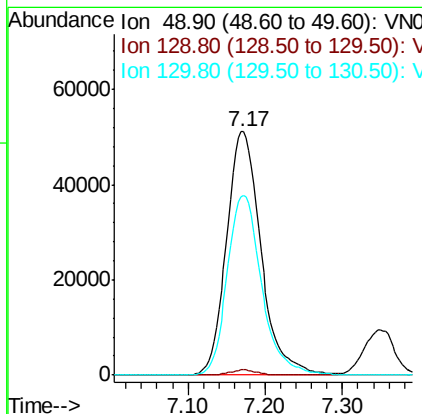
RT: 7.17 min Scan# 1679

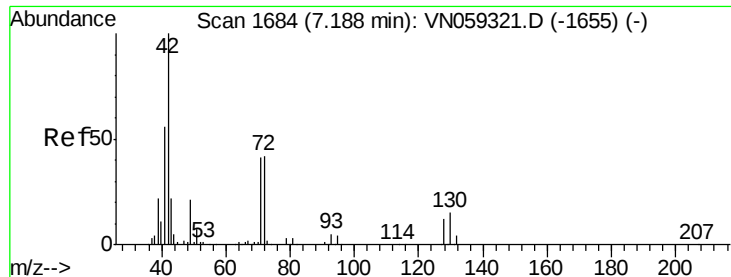
Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Tgt Ion:	49	Resp:	158382
Ion Ratio	Lower	Upper	
49	100		
129	1.6	0.0	3.8
130	73.5	57.0	85.6





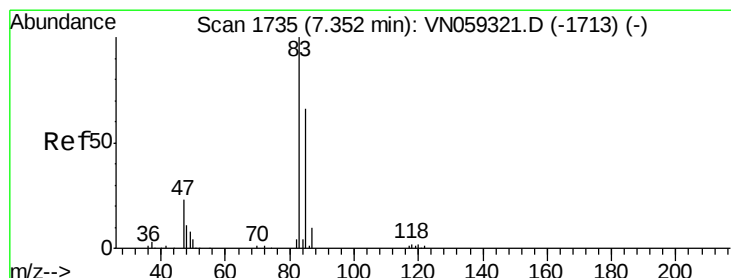
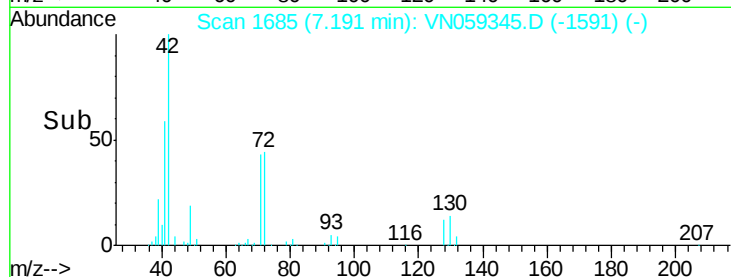
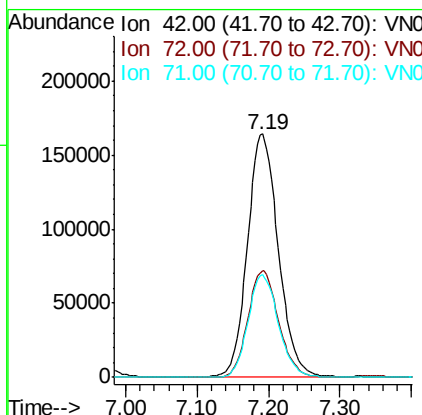
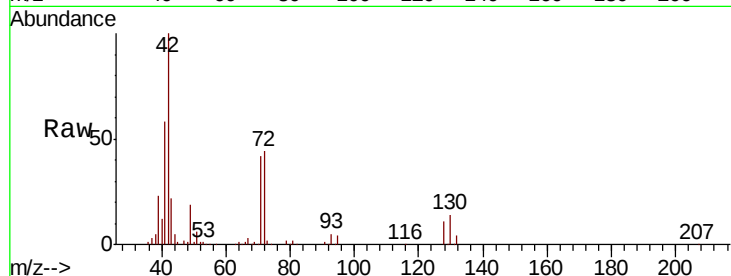
#29
Tetrahydrofuran
Concen: 221.692 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.4	34.2	51.2
71	41.4	32.6	48.8

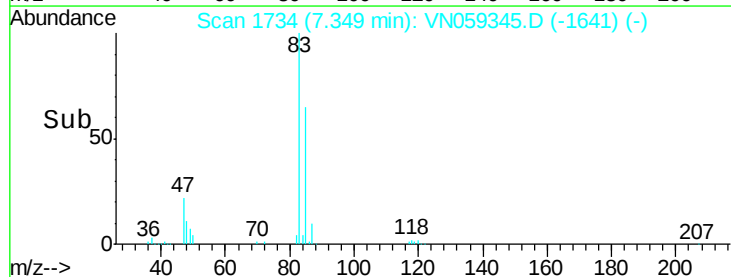
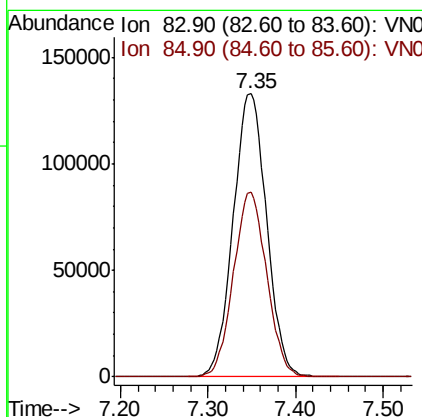
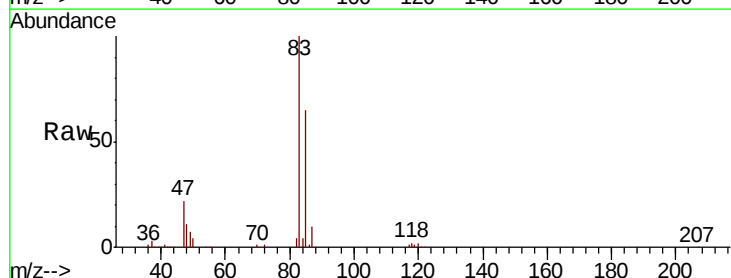
Manual Integrations
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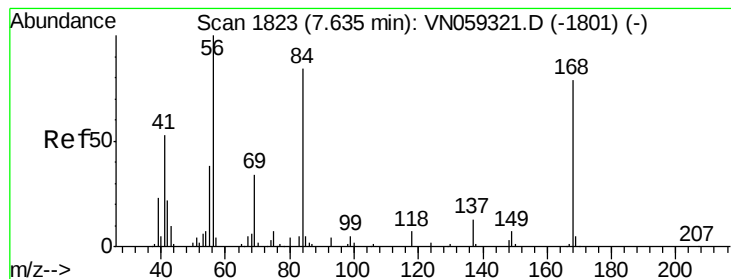
MMDadoda
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#30
Chloroform
Concen: 44.135 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.7	79.1





#31

Cyclohexane

Concen: 43.689 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.01 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

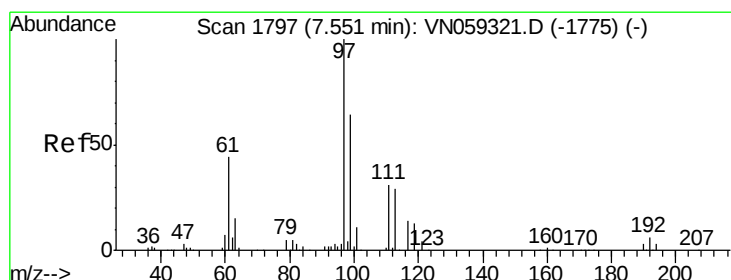
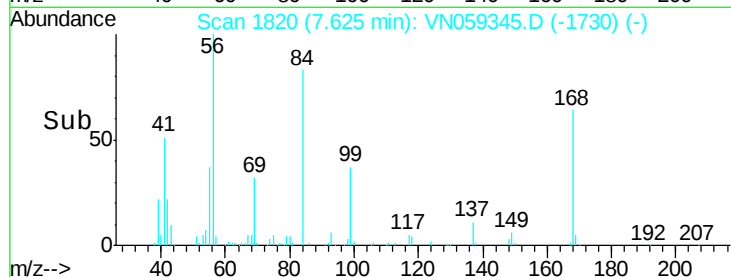
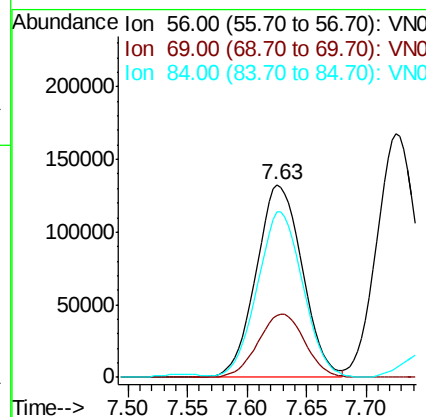
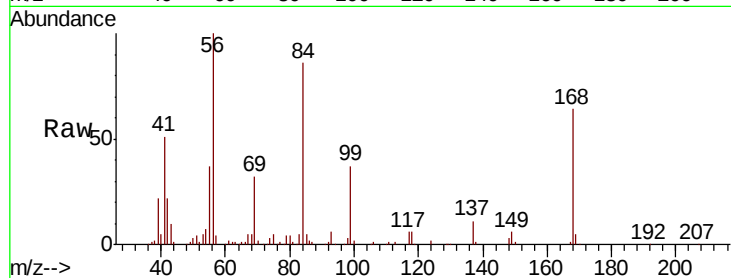
ClientSampleId :

MW-4-(12-14)MSD

Tot Ion:	56	Resp:	356264
Ion Ratio	Lower	Upper	
56	100		
69	32.2	26.6	40.0
84	84.7	67.0	100.4

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#32

1,1,1-Trichloroethane

Concen: 44.312 ug/l

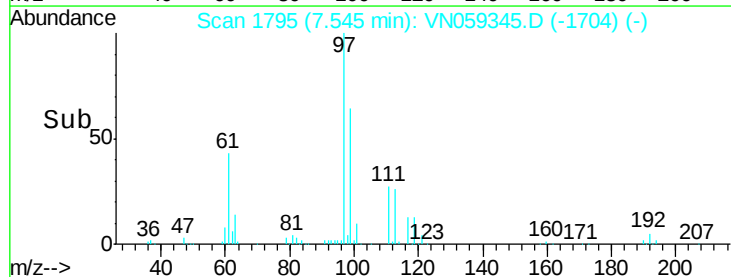
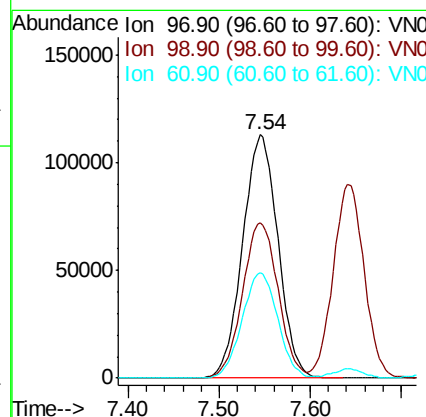
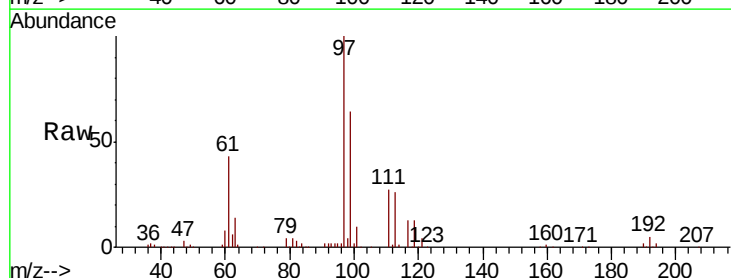
RT: 7.54 min Scan# 1795

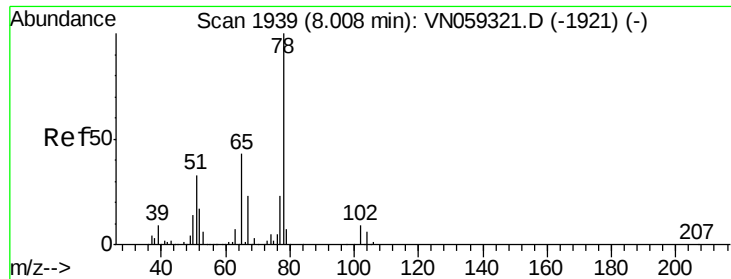
Delta R.T. -0.01 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Tgt Ion:	97	Resp:	304706
Ion Ratio	Lower	Upper	
97	100		
99	64.4	51.3	76.9
61	43.6	35.3	52.9





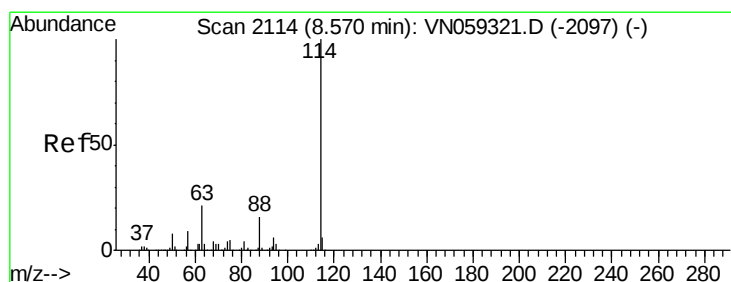
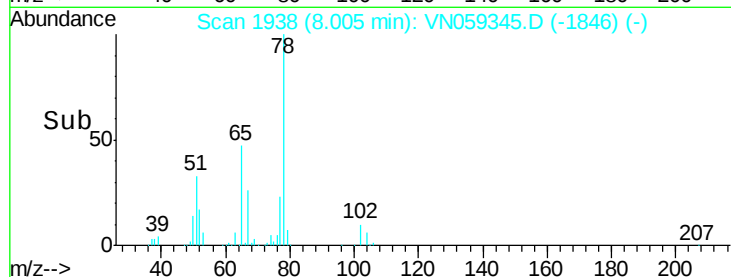
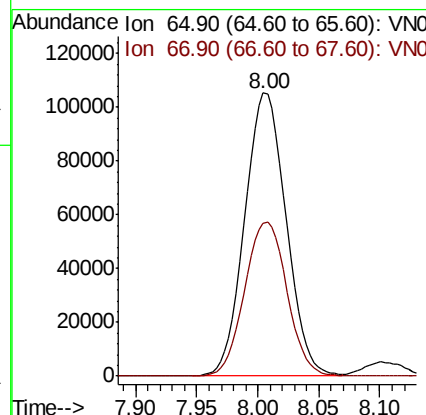
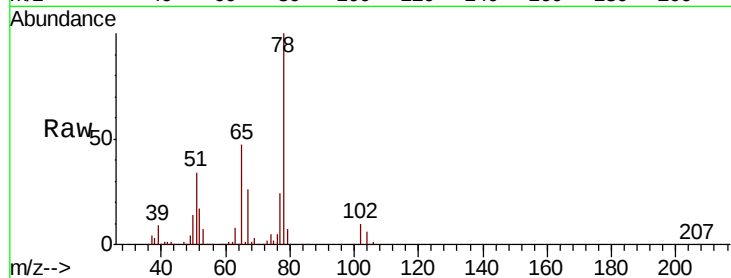
#33
 1,2-Dichloroethane-d4
 Concen: 53.507 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN059345.D
 Acq: 21 Nov 2019 18:46

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
65	100	247796		
67	55.7	0.0	109.4	

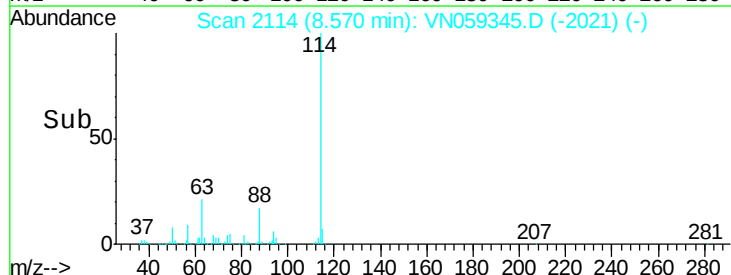
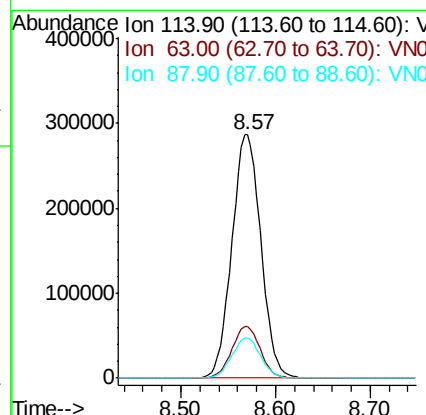
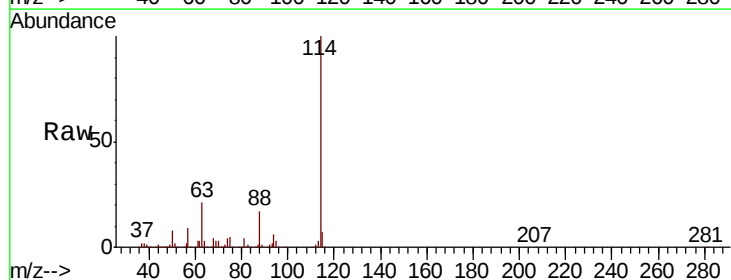
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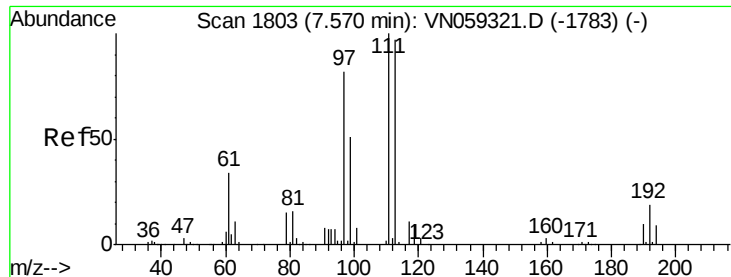
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059345.D
 Acq: 21 Nov 2019 18:46

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	611017		
63	21.3	0.0	42.2	
88	16.7	0.0	32.2	





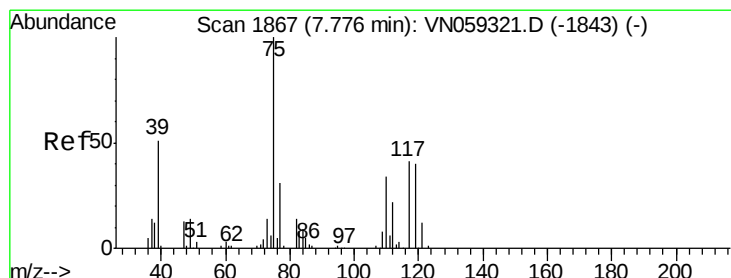
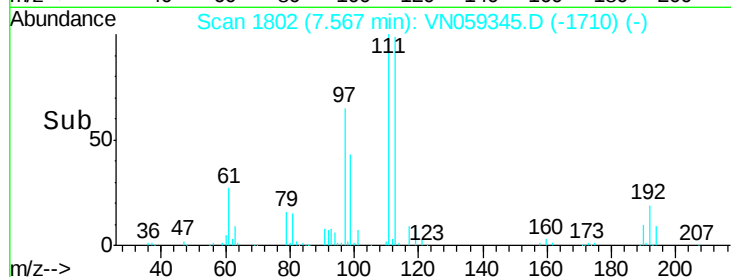
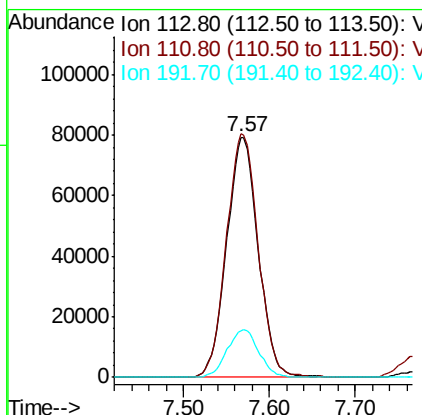
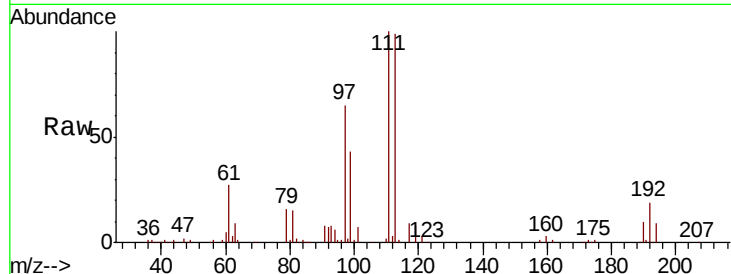
#35
Dibromofluoromethane
Concen: 55.060 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
113	100	201837		
111	102.1	82.7	124.1	
192	19.9	16.3	24.5	

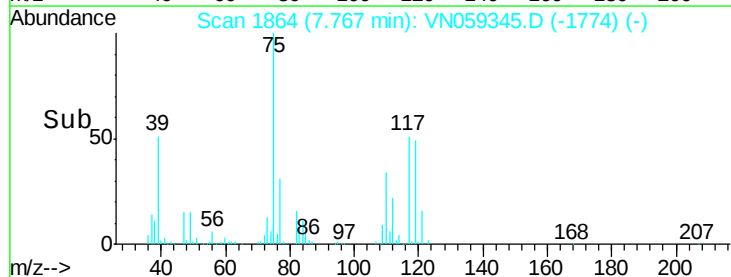
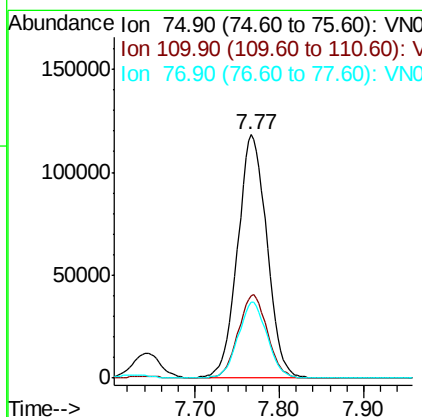
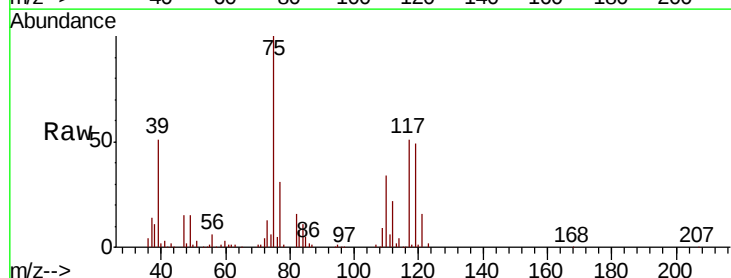
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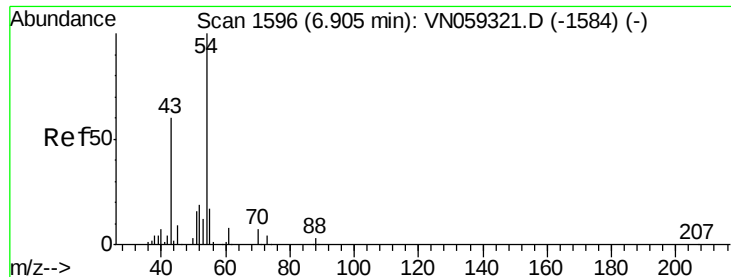
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11/22/2019 3:12:55 PM



#36
1,1-Dichloropropene
Concen: 45.457 ug/l
RT: 7.77 min Scan# 1864
Delta R.T. -0.01 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	286732		
110	34.0	17.0	51.0	
77	30.9	24.8	37.2	





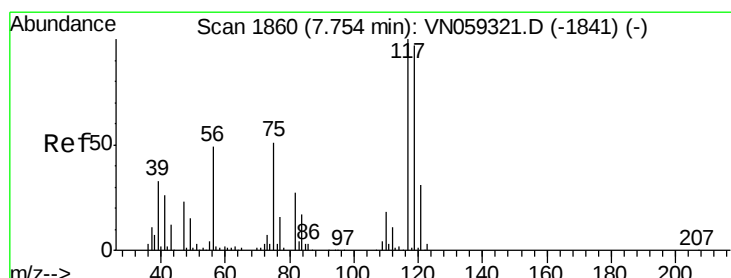
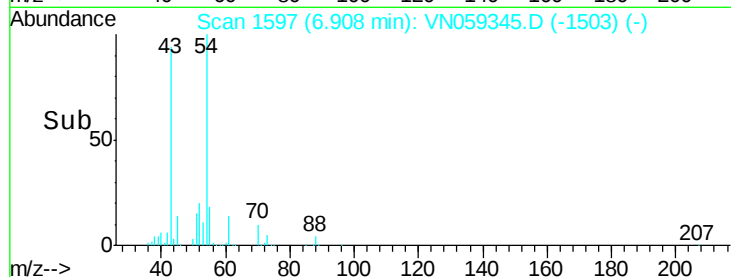
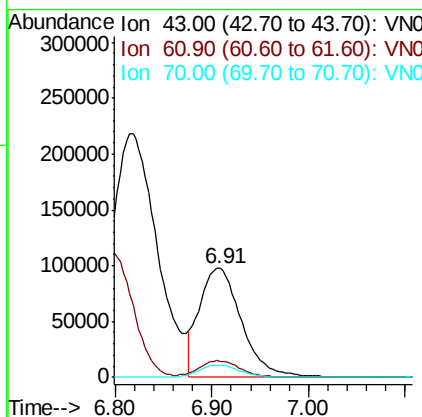
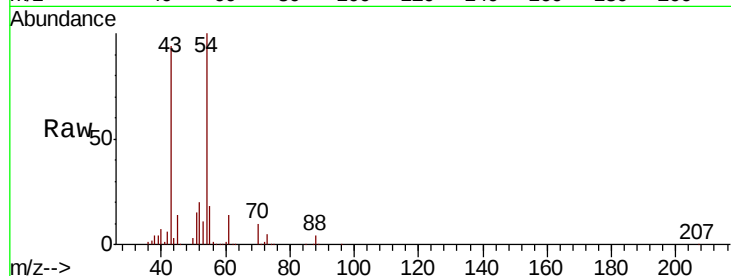
#37
Ethyl Acetate
Concen: 43.072 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.0	16.6
70	11.2	8.8	13.2

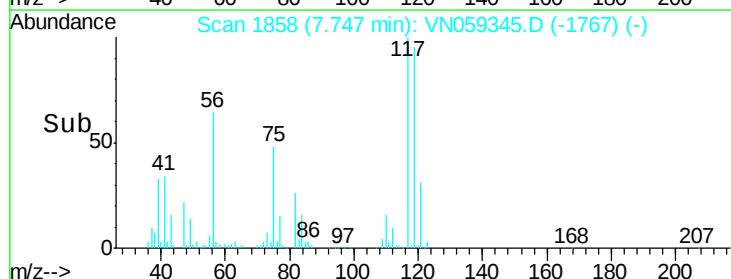
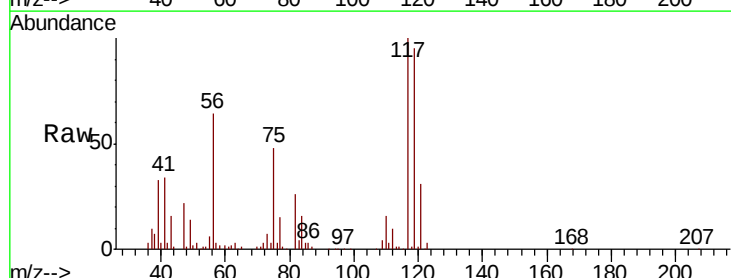
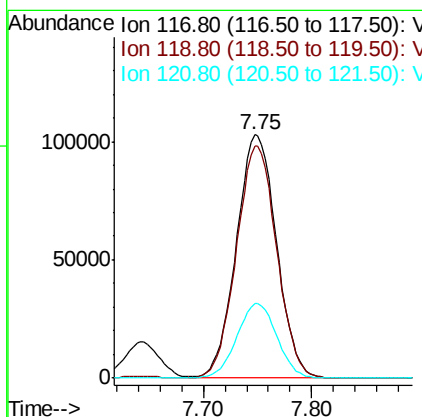
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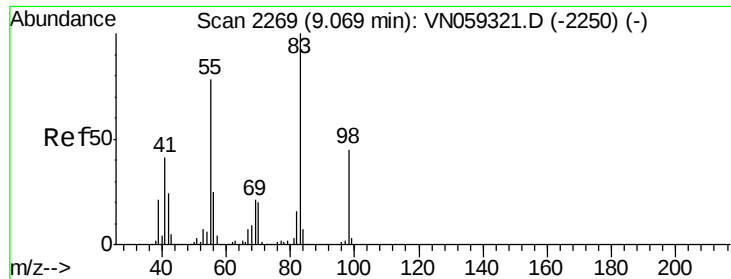
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11/22/2019 3:12:55 PM



#38
Carbon Tetrachloride
Concen: 44.222 ug/l
RT: 7.75 min Scan# 1858
Delta R.T. -0.01 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.3	77.0	115.4
121	30.5	24.4	36.6





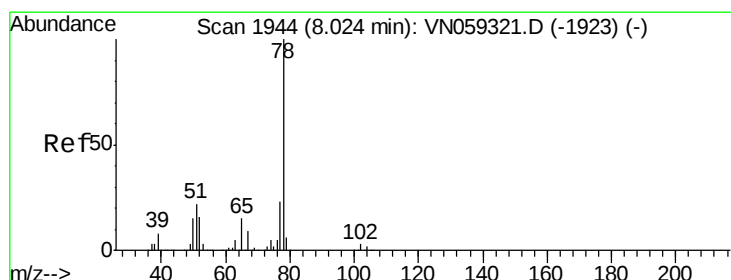
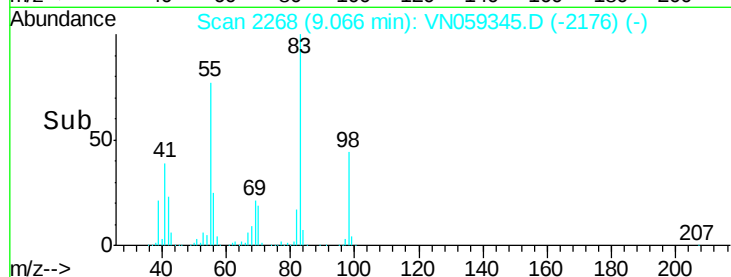
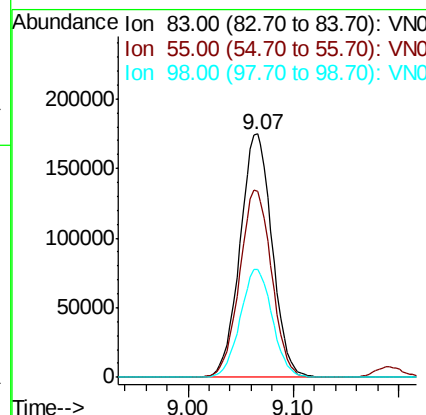
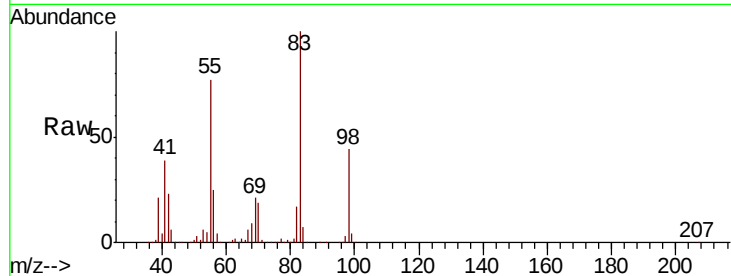
#39
Methvlcvclohexane
Concen: 48.391 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.5	62.3	93.5
98	44.4	36.0	54.0

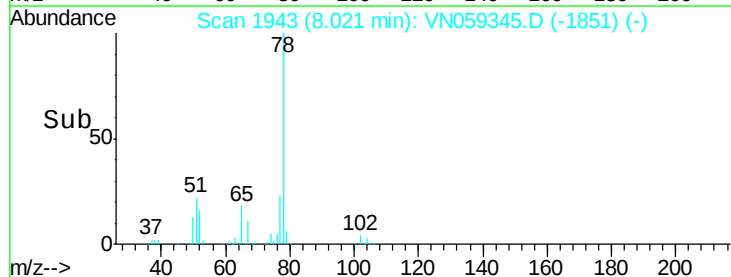
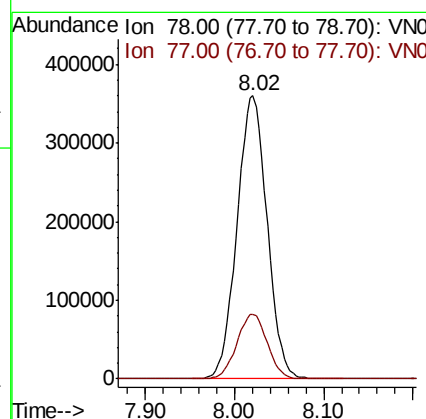
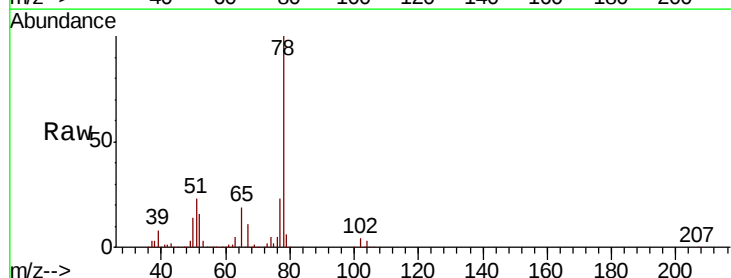
Manual Integrations
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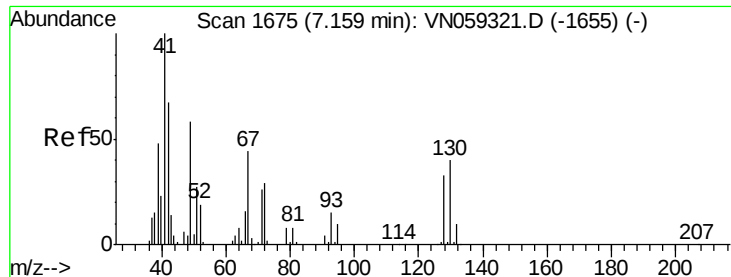
MMDadoda
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#40
Benzene
Concen: 45.472 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.4	27.6





#41

Methacrylonitrile

Concen: 50.867 ug/l m

RT: 7.17 min Scan# 1677

Delta R.T. 0.01 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 41 Resp: 153082

Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

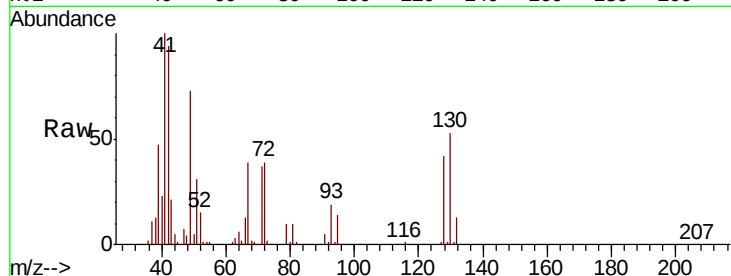
67 0.0 0.0 0.0

52 0.0 0.0 0.0

Manual Integrations
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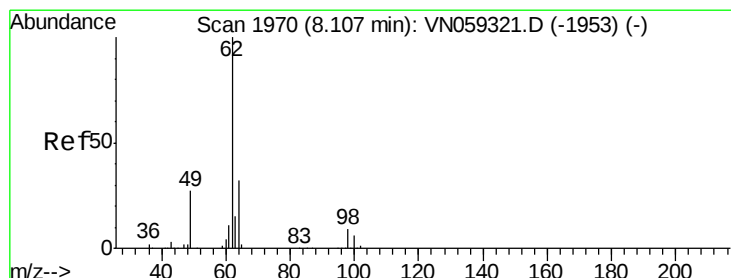
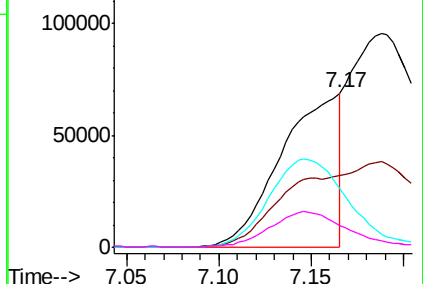
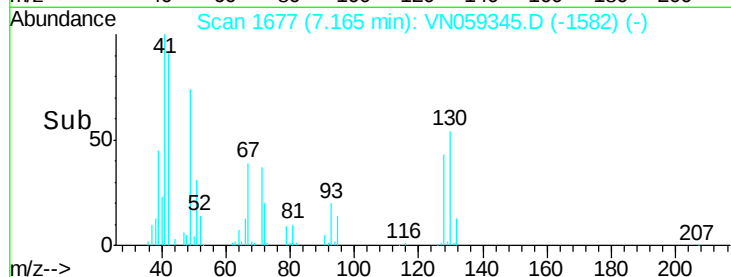


Abundance Ion 41.00 (40.70 to 41.70): VN059321.D (-1655) (-)

Ion 39.00 (38.70 to 39.70): VN059321.D (-1655) (-)

Ion 67.00 (66.70 to 67.70): VN059321.D (-1655) (-)

Ion 52.00 (51.70 to 52.70): VN059321.D (-1655) (-)



#42

1,2-Dichloroethane

Concen: 44.496 ug/l

RT: 8.10 min Scan# 1969

Delta R.T. -0.00 min

Lab File: VN059345.D

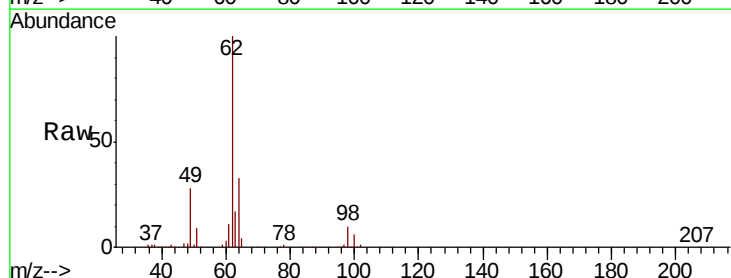
Acq: 21 Nov 2019 18:46

Tgt Ion: 62 Resp: 272446

Ion Ratio Lower Upper

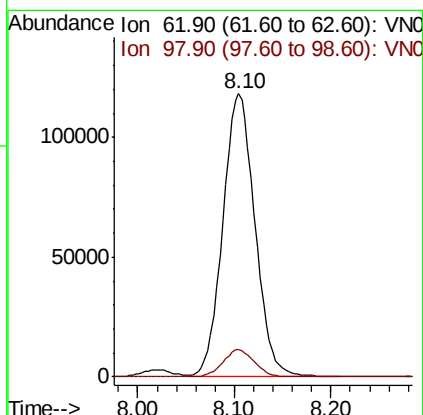
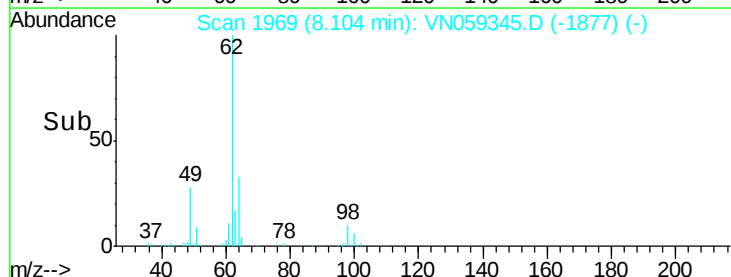
62 100

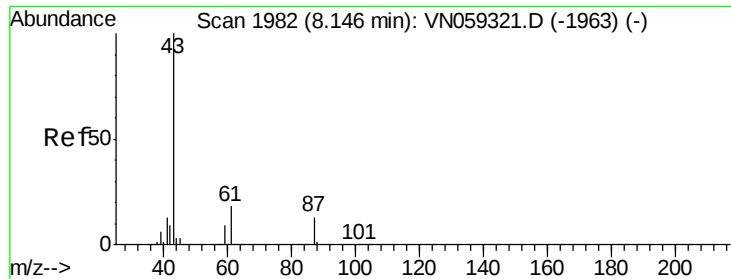
98 9.3 0.0 18.6



Abundance Ion 61.90 (61.60 to 62.60): VN059321.D (-1953) (-)

Ion 97.90 (97.60 to 98.60): VN059321.D (-1953) (-)





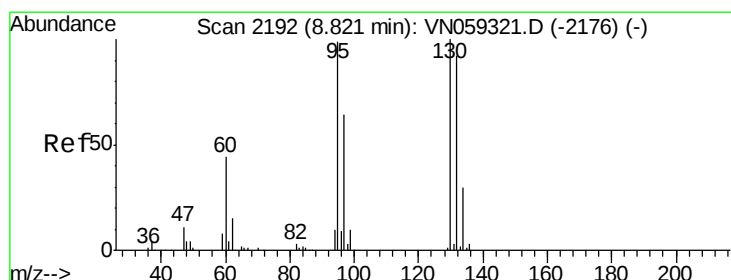
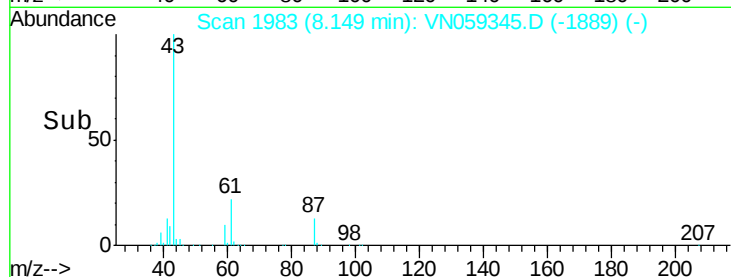
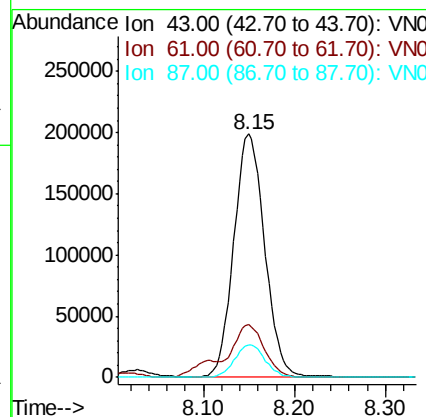
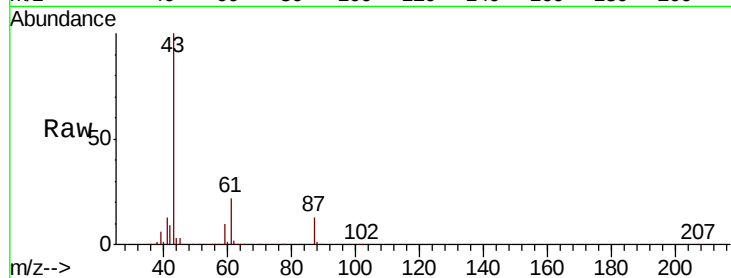
#43
Isopropyl Acetate
Concen: 45.060 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.4	21.7	32.5#
87	13.2	10.2	15.4

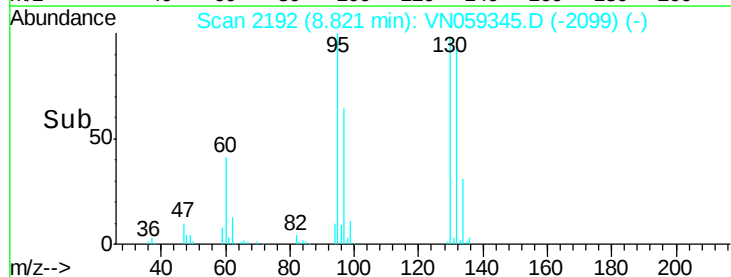
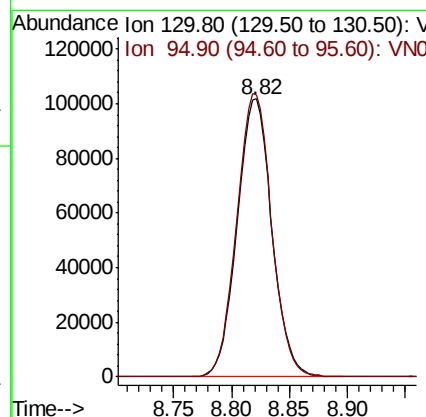
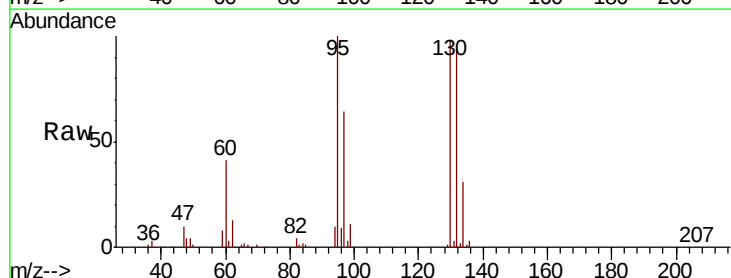
Manual Integrations
APPROVED

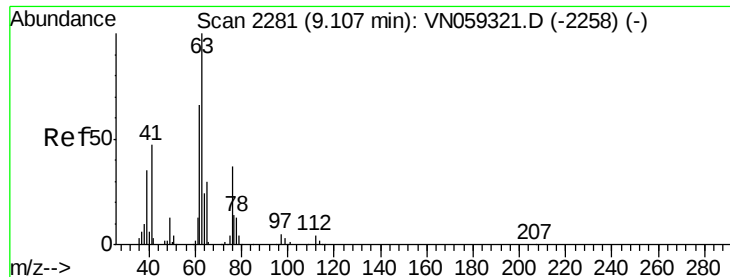
MMDadoda
11/22/2019 3:12:55 PM



#44
Trichloroethene
Concen: 45.099 ug/l
RT: 8.82 min Scan# 2192
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.7	0.0	198.4





#45

1,2-Dichloropropane

Concen: 45.219 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. -0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 63 Resp: 223233

Ion Ratio Lower Upper

63 100

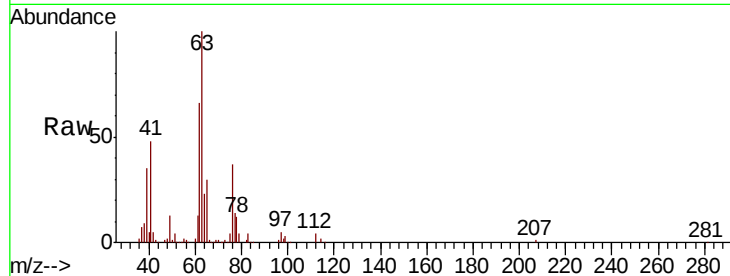
65 29.8 23.9 35.9

Manual Integrations

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Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

9.10

120000

100000

80000

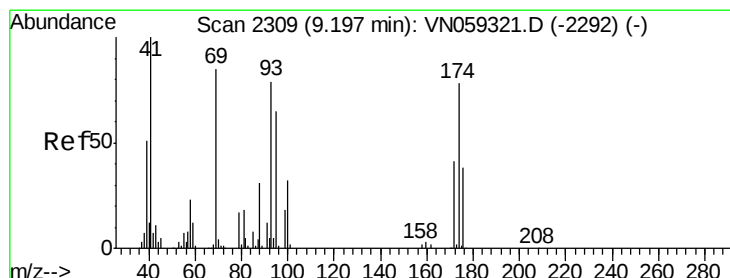
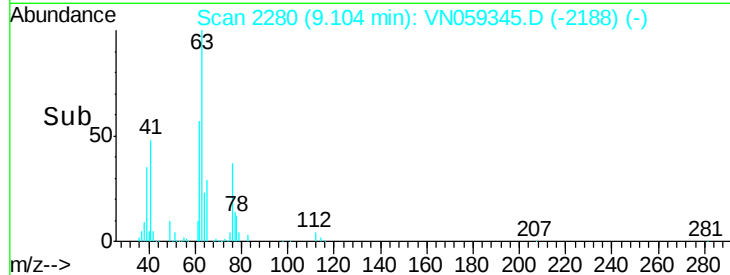
60000

40000

20000

0

Time-->



#46

Dibromomethane

Concen: 44.512 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

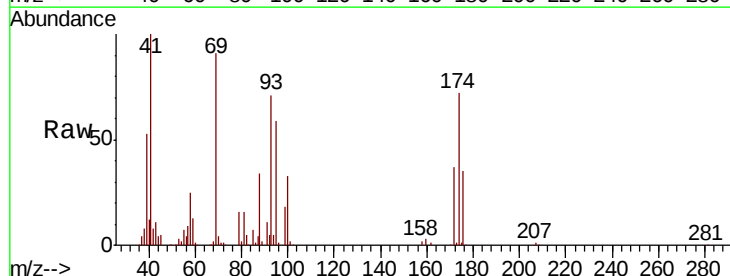
Tgt Ion: 93 Resp: 134788

Ion Ratio Lower Upper

93 100

95 83.9 66.9 100.3

174 100.5 80.6 120.8



Abundance Ion 92.80 (92.50 to 93.50): VNC

Ion 94.80 (94.50 to 95.50): VNC

Ion 173.70 (173.40 to 174.40): VNC

9.20

80000

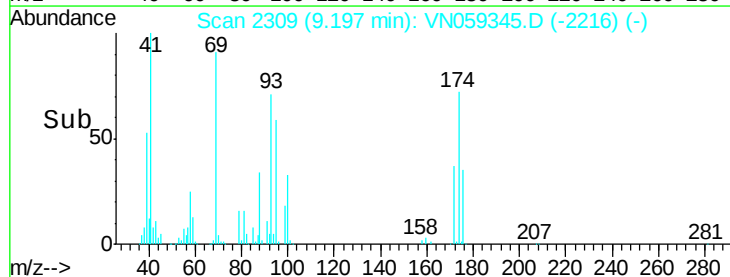
60000

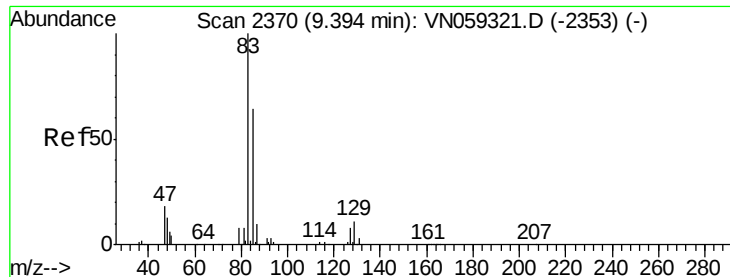
40000

20000

0

Time-->





#47

Bromodichloromethane

Concen: 45.051 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

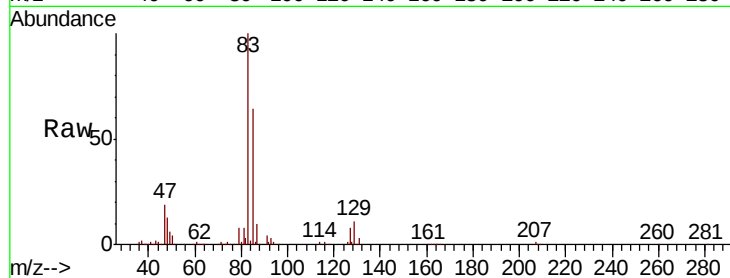
ClientSampleId :

MW-4-(12-14)MSD

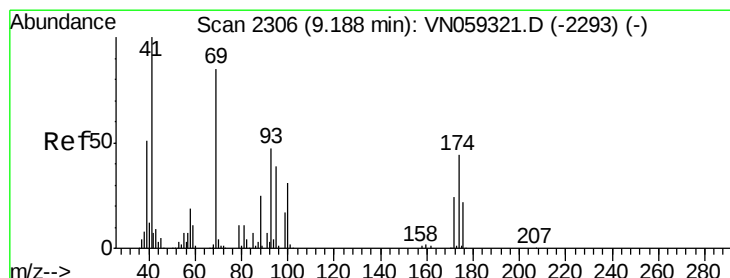
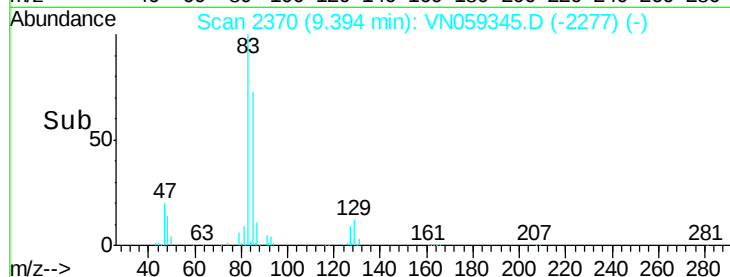
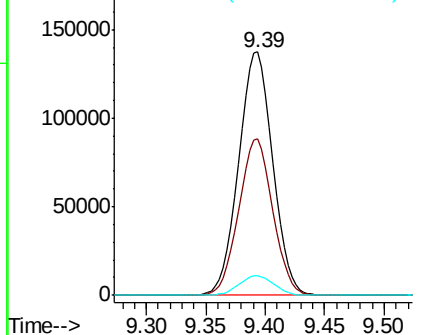
Tot Ion:	83	Resp:	273208
Ion Ratio	Lower	Upper	
83	100		
85	64.1	51.5	77.3
127	8.3	6.6	10.0

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



#48

Methyl methacrylate

Concen: 43.906 ug/l

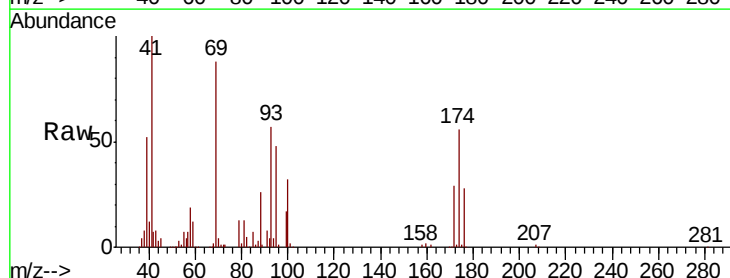
RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

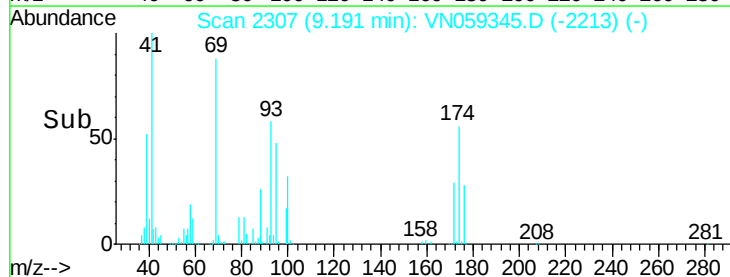
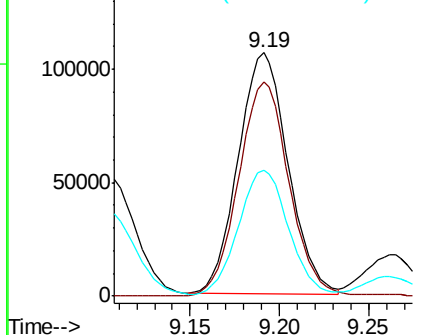
Lab File: VN059345.D

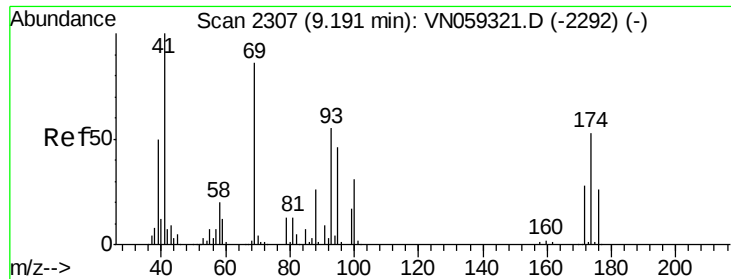
Acq: 21 Nov 2019 18:46

Tgt Ion:	41	Resp:	206859
Ion Ratio	Lower	Upper	
41	100		
69	90.5	68.8	103.2
39	52.7	42.1	63.1



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





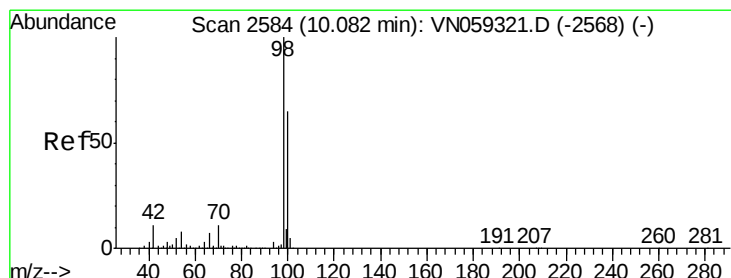
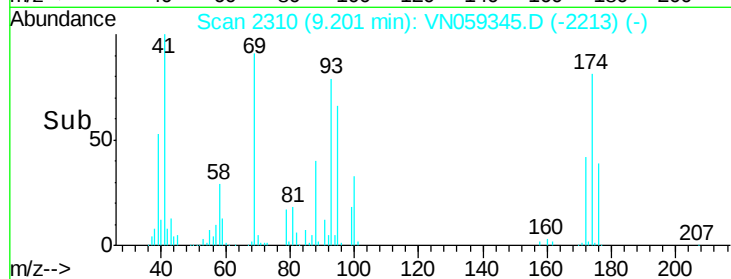
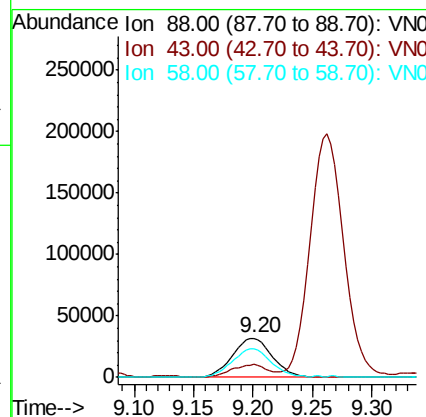
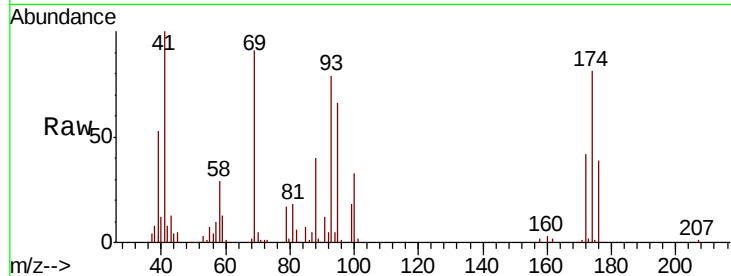
#49
1,4-Dioxane
Concen: 1042.103 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.01 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion	88	Resp	73790
Ion Ratio	100	Lower	Upper
88	100		
43	28.5	26.9	40.3
58	72.1	59.2	88.8

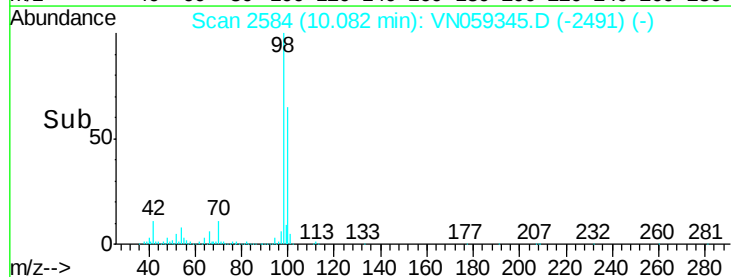
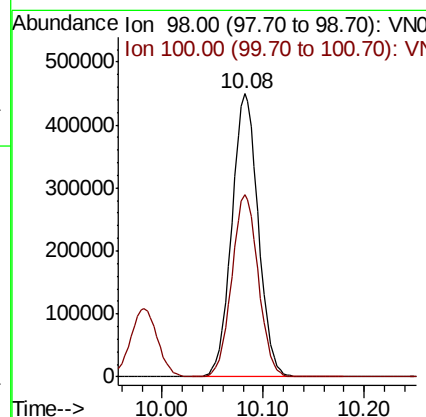
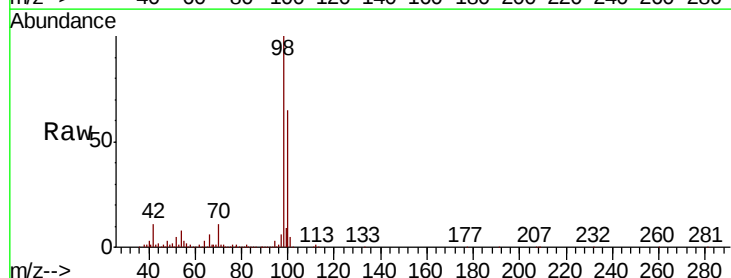
Manual Integrations
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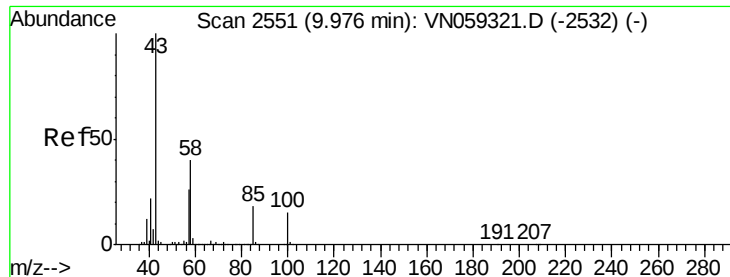
MMDadoda
11/22/2019 3:12:55 PM



#50
Toluene-d8
Concen: 56.251 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion	98	Resp	819748
Ion Ratio	100	Lower	Upper
98	100		
100	64.7	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 226.761 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.01 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 43 Resp: 1375137

Ion Ratio Lower Upper

43 100

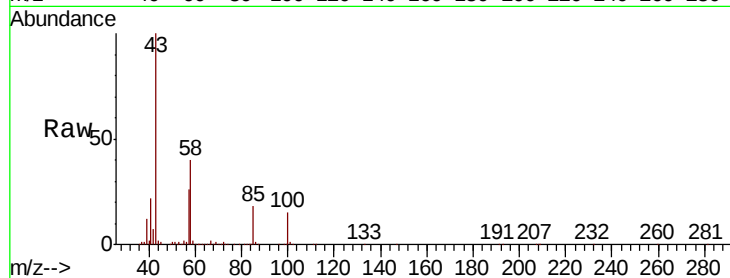
58 40.5 31.8 47.8

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN059321.D (-2532) (-)

Ion 58.00 (57.70 to 58.70): VN059321.D (-2532) (-)

9.98

800000

600000

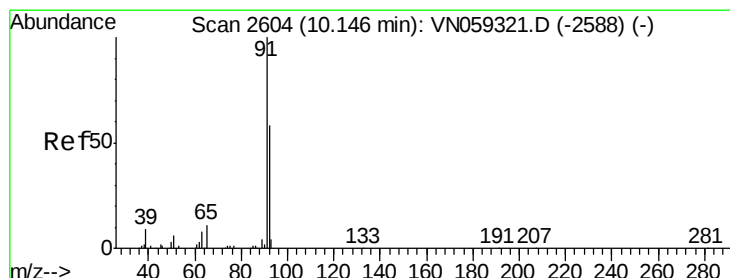
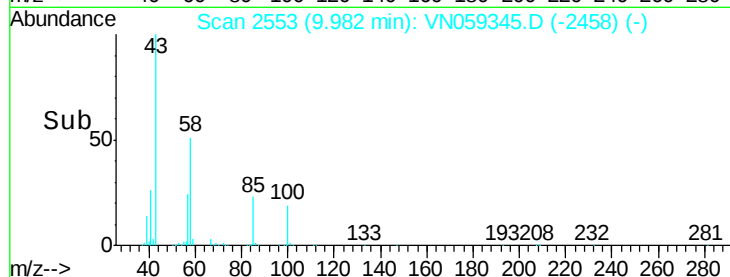
400000

200000

0

9.90 10.00

Time-->



#52

Toluene

Concen: 45.700 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059345.D

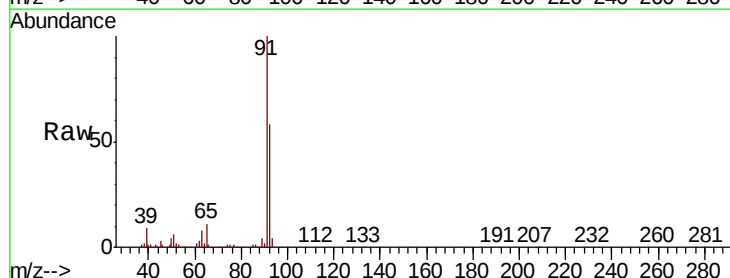
Acq: 21 Nov 2019 18:46

Tgt Ion: 92 Resp: 508727

Ion Ratio Lower Upper

92 100

91 172.7 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VN059321.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN059321.D (-2588) (-)

10.15

500000

400000

300000

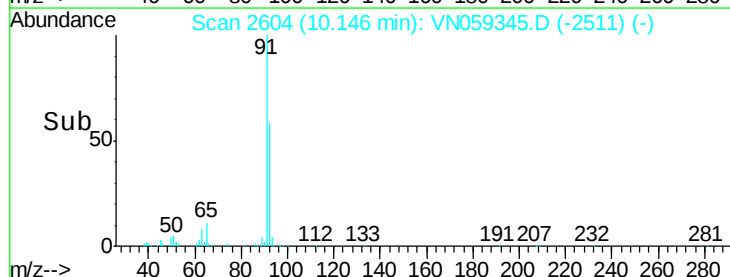
200000

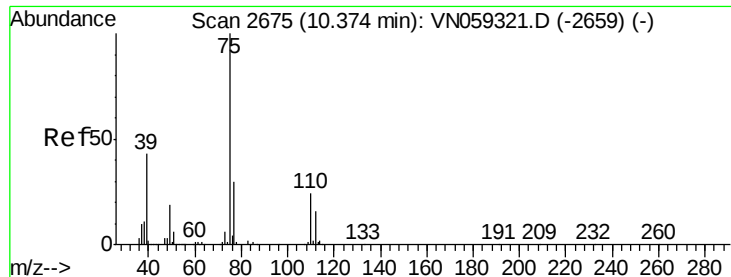
100000

0

10.10 10.20

Time-->





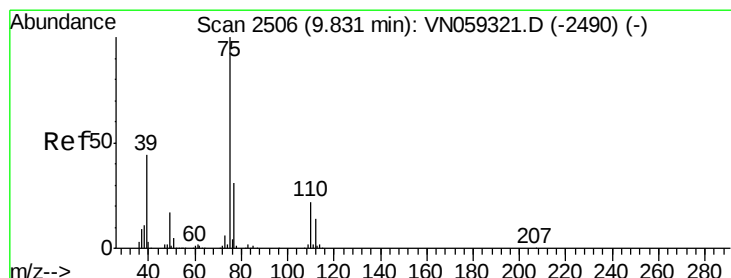
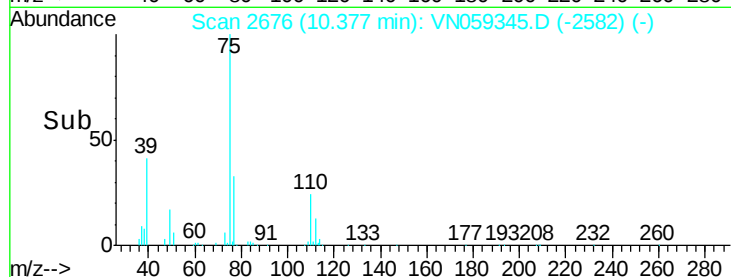
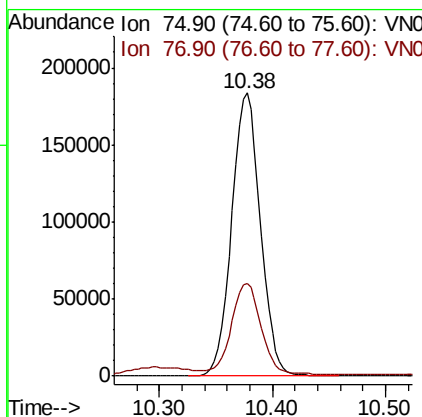
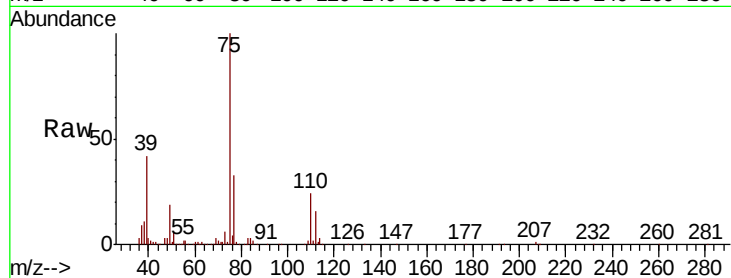
#53
t-1,3-Dichloropropene
Concen: 45.908 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.5	38.3

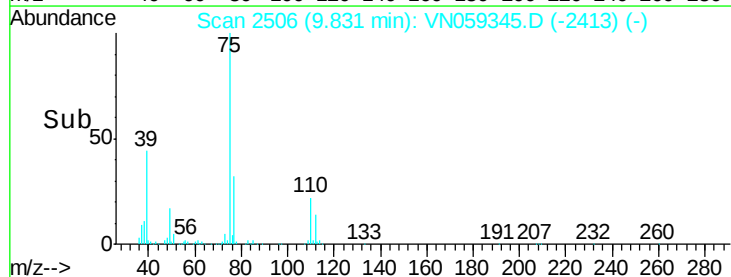
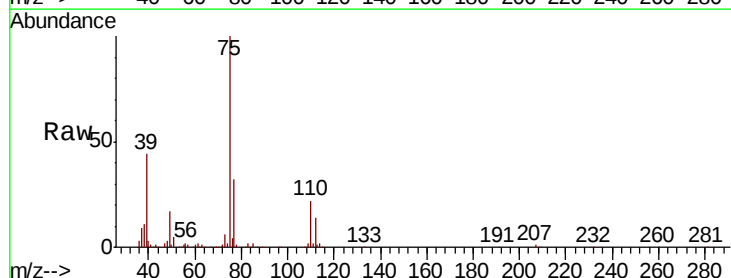
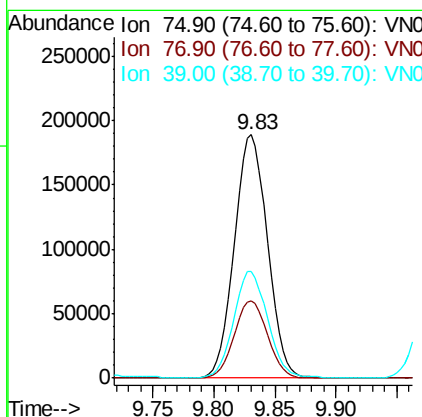
Manual Integrations
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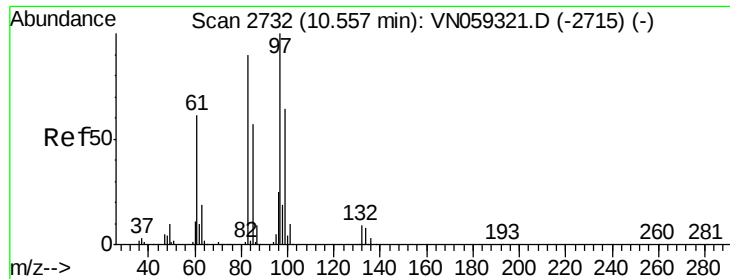
MMDadoda
11/22/2019 3:12:55 PM



#54
cis-1,3-Dichloropropene
Concen: 46.498 ug/l
RT: 9.83 min Scan# 2506
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.4
39	43.9	35.5	53.3





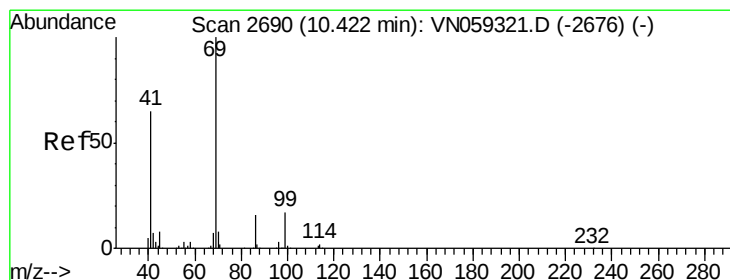
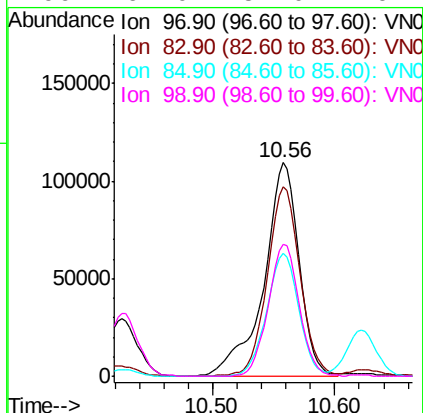
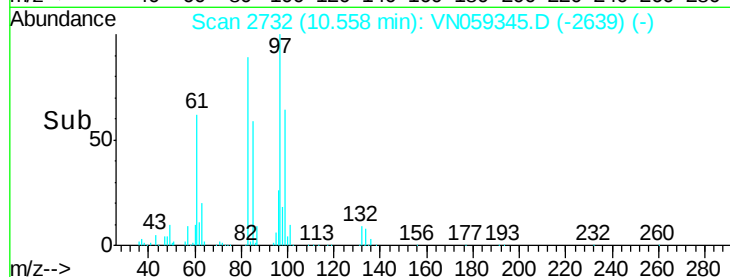
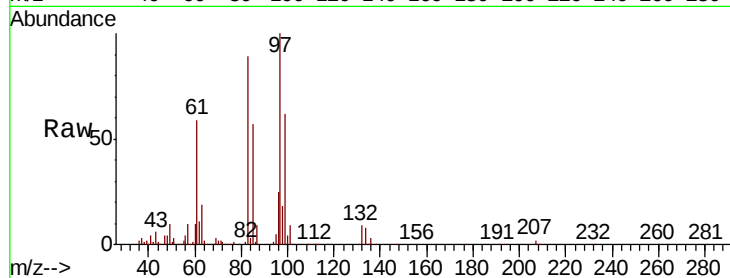
#55
 1,1,2-Trichloroethane
 Concen: 51.366 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN059345.D
 Acq: 21 Nov 2019 18:46

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MSD

Tot Ion:	97	Resp:	222320
Ion	Ratio	Lower	Upper
97	100		
83	88.9	72.0	108.0
85	57.3	45.8	68.6
99	62.0	51.0	76.4

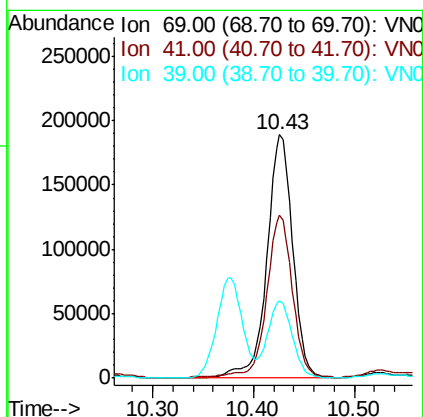
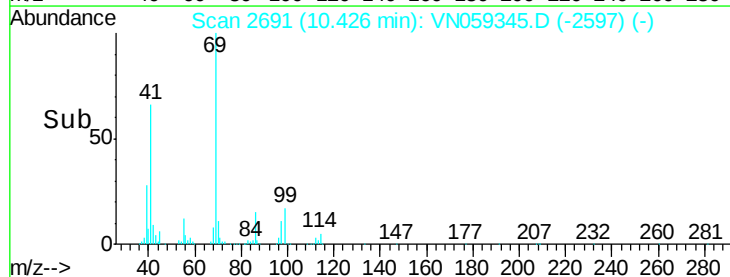
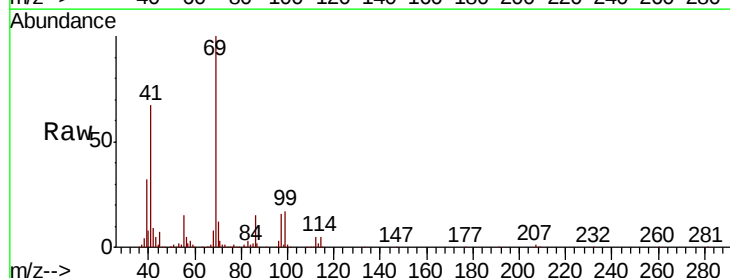
Manual Integrations
 APPROVED

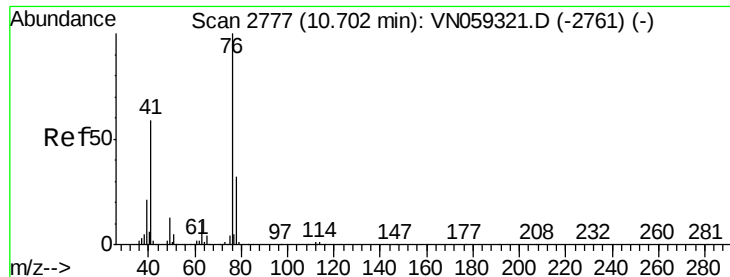
MMDadoda
 11/22/2019 3:12:55 PM



#56
 Ethyl methacrylate
 Concen: 46.375 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN059345.D
 Acq: 21 Nov 2019 18:46

Tgt Ion:	69	Resp:	337781
Ion	Ratio	Lower	Upper
69	100		
41	67.0	51.7	77.5
39	29.7	25.2	37.8





#57

1,3-Dichloropropane

Concen: 45.087 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 76 Resp: 340120

Ion Ratio Lower Upper

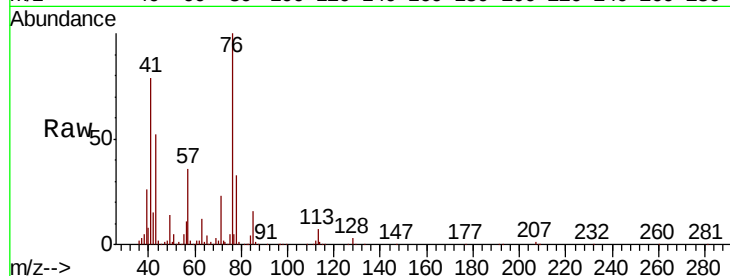
76 100

78 32.6 26.0 39.0

Manual Integrations
APPROVED

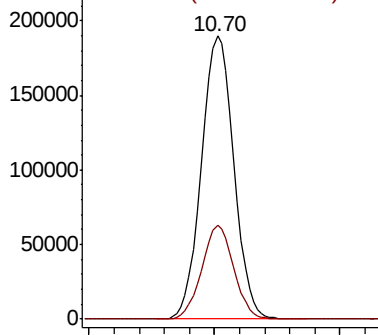
MMDadoda

11/22/2019 3:12:55 PM

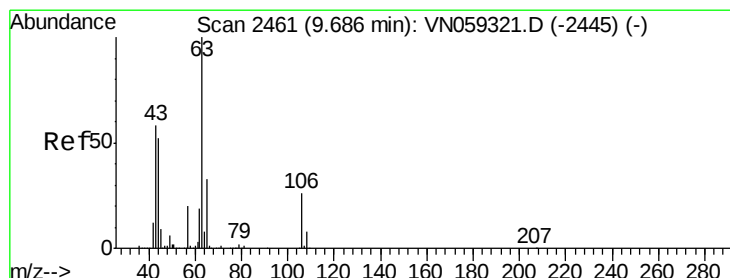
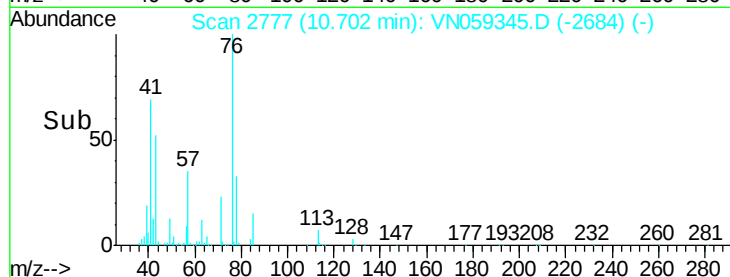


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 242.687 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN059345.D

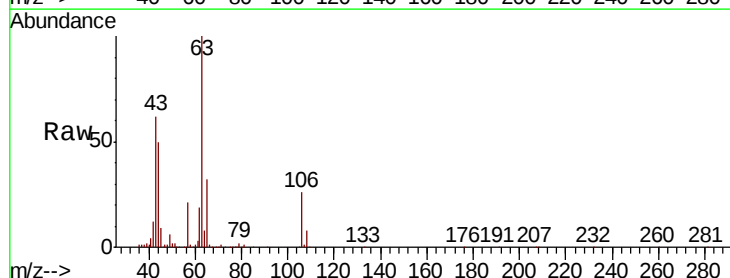
Acq: 21 Nov 2019 18:46

Tgt Ion: 63 Resp: 649187

Ion Ratio Lower Upper

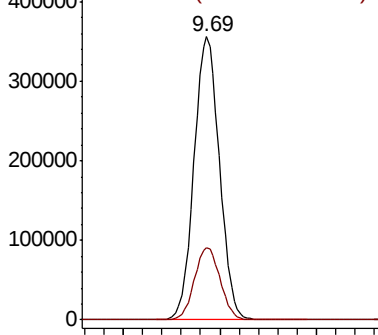
63 100

106 25.8 20.5 30.7

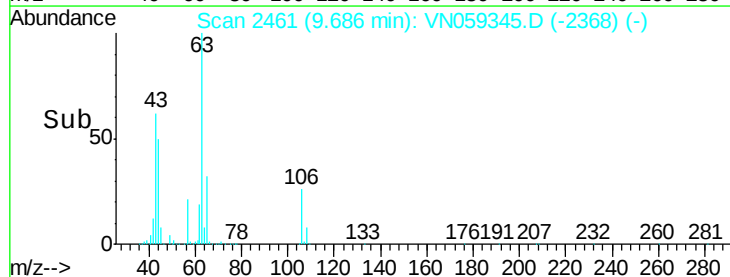


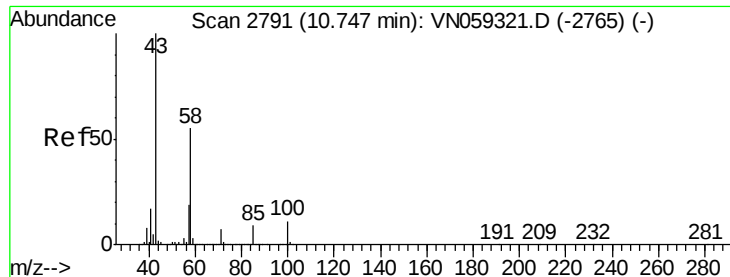
Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V



Time--> 9.60 9.70 9.80





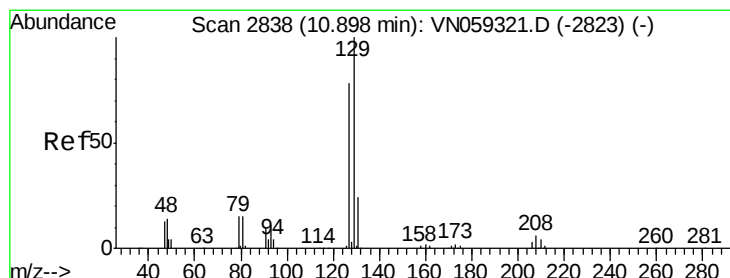
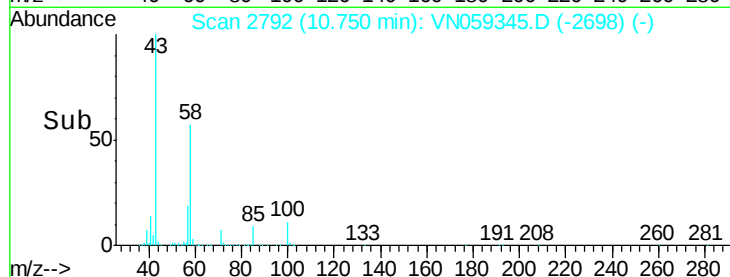
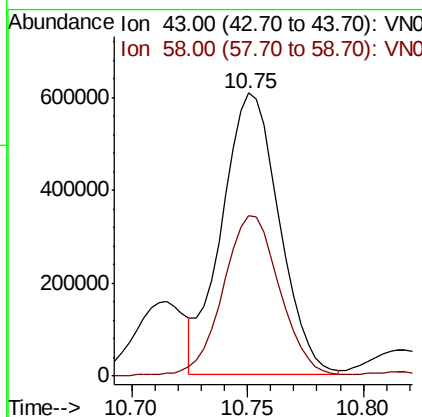
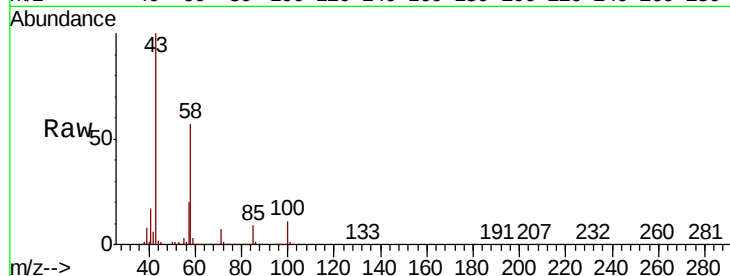
#59
2-Hexanone
Concen: 235.398 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion: 43 Resp: 1045288
Ion Ratio Lower Upper
43 100
58 56.7 27.7 83.0

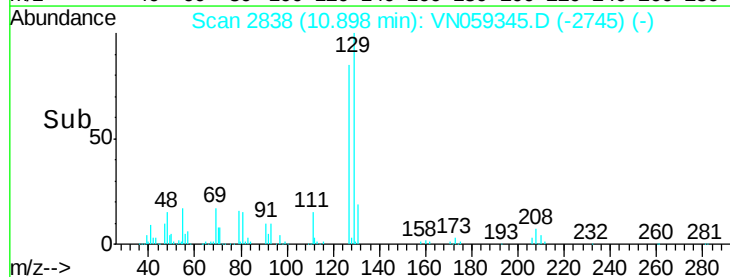
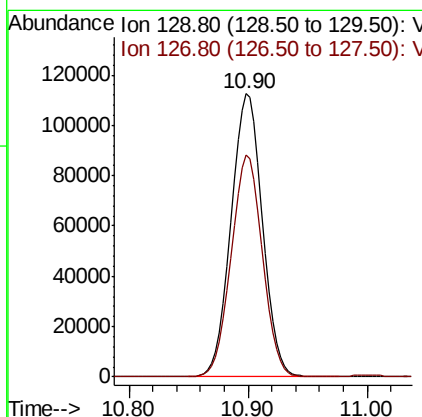
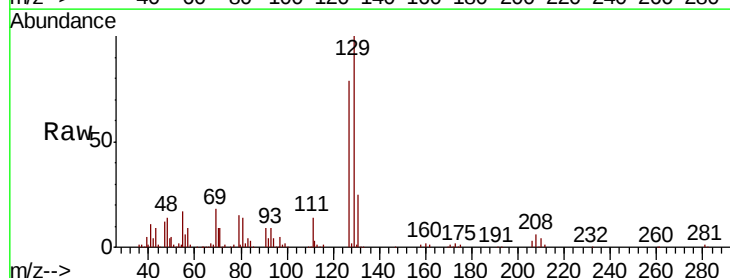
Manual Integrations
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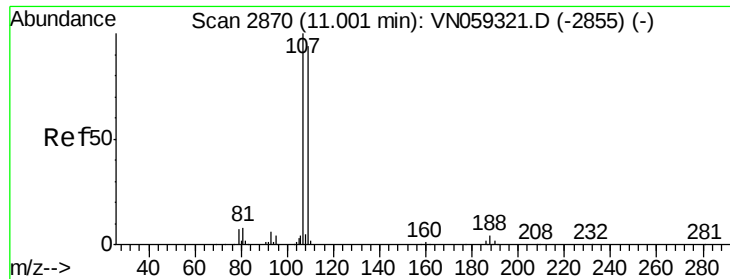
MMDadoda
11/22/2019 3:12:55 PM



#60
Dibromochloromethane
Concen: 44.999 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion: 129 Resp: 205236
Ion Ratio Lower Upper
129 100
127 78.2 38.5 115.5





#61

1,2-Dibromoethane

Concen: 44.988 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 107 Resp: 202602

Ion Ratio Lower Upper

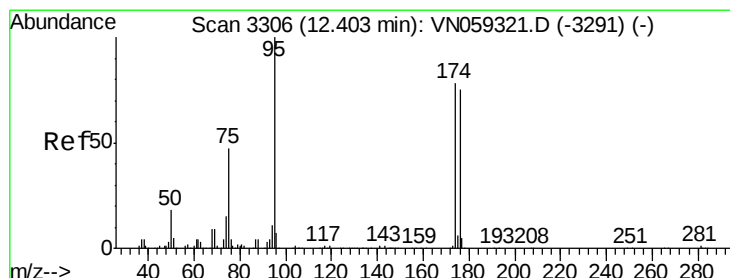
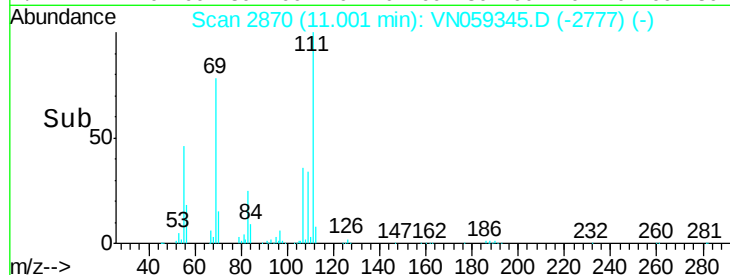
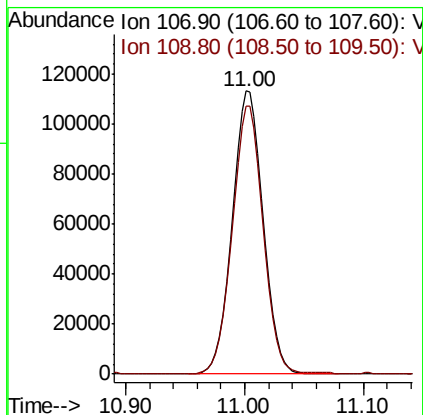
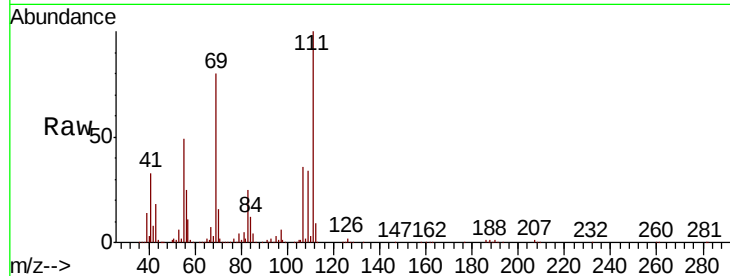
107 100

109 94.8 75.4 113.2

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#62

4-Bromofluorobenzene

Concen: 102.749 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

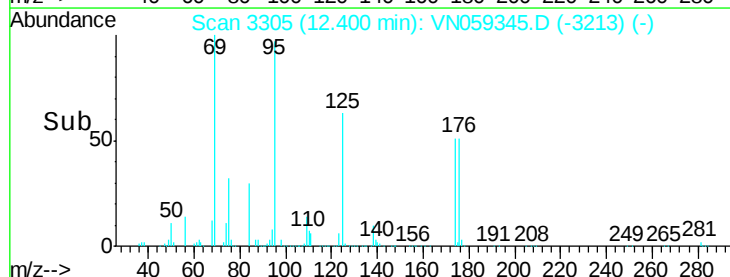
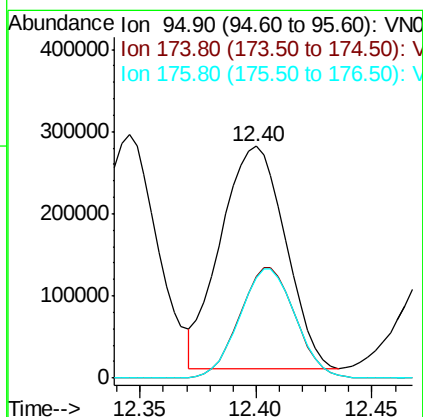
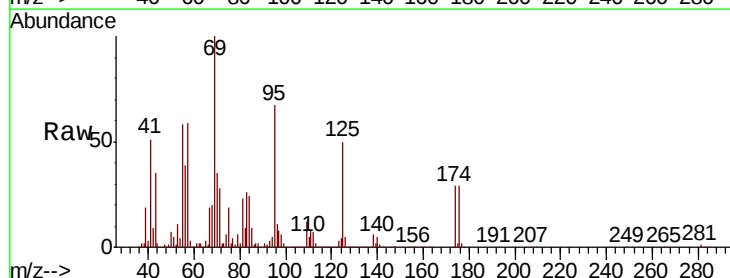
Tgt Ion: 95 Resp: 523562

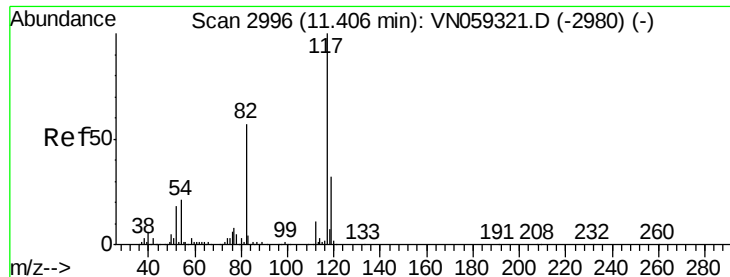
Ion Ratio Lower Upper

95 100

174 43.2 0.0 157.4

176 42.7 0.0 151.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

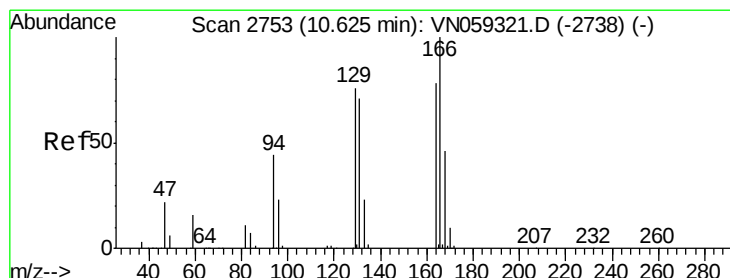
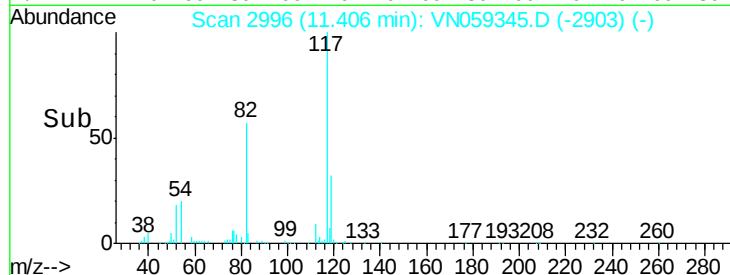
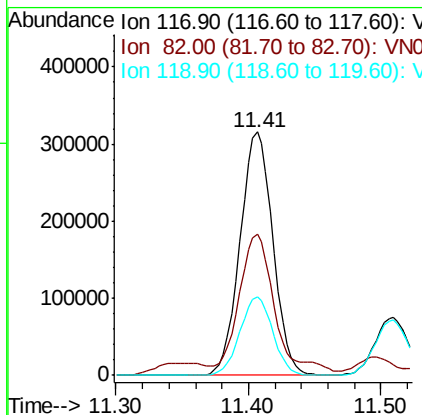
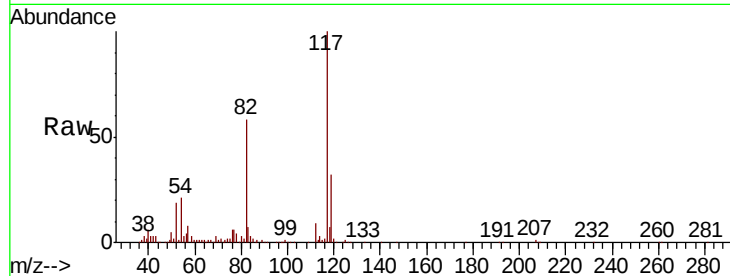
ClientSampleId :

MW-4-(12-14)MSD

Tot Ion:	117	Resp:	542728
Ion Ratio	Lower	Upper	
117	100		
82	56.1	45.7	68.5
119	32.3	25.8	38.6

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#64

Tetrachloroethene

Concen: 42.846 ug/l

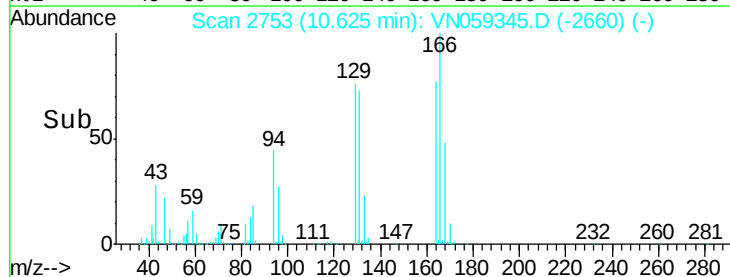
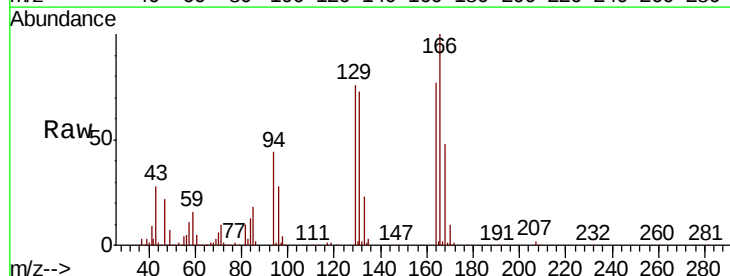
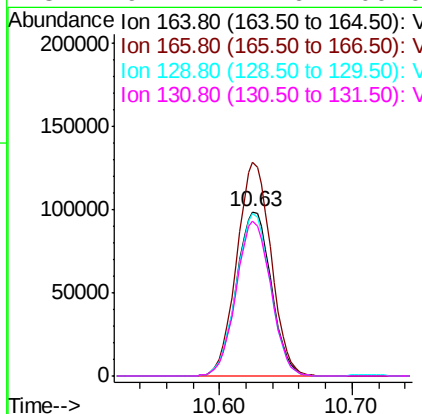
RT: 10.63 min Scan# 2753

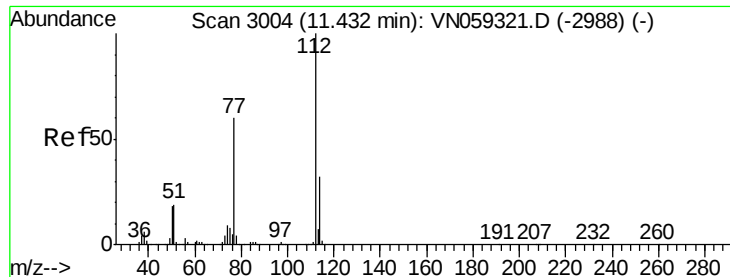
Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Tgt Ion:	164	Resp:	179846
Ion Ratio	Lower	Upper	
164	100		
166	130.1	102.9	154.3
129	98.7	78.2	117.2
131	94.4	72.6	109.0





#65

Chlorobenzene

Concen: 45.223 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion:112 Resp: 527742

Ion Ratio Lower Upper

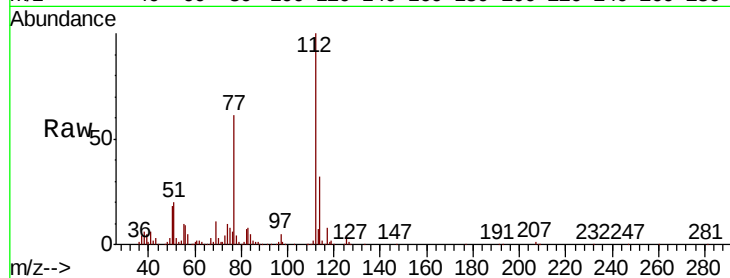
112 100

114 32.2 25.8 38.6

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

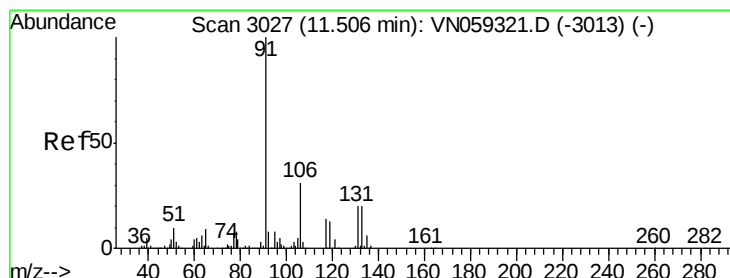
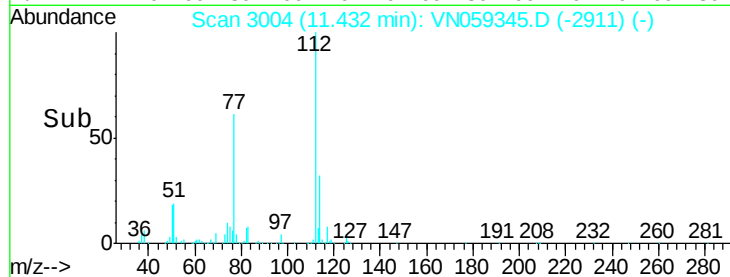
300000

200000

100000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 44.450 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

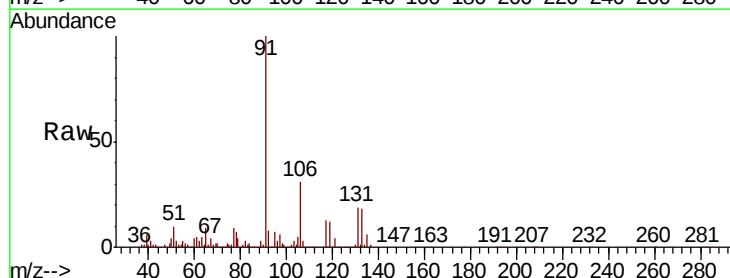
Tgt Ion:131 Resp: 188443

Ion Ratio Lower Upper

131 100

133 96.9 48.2 144.6

119 67.0 33.6 100.6



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

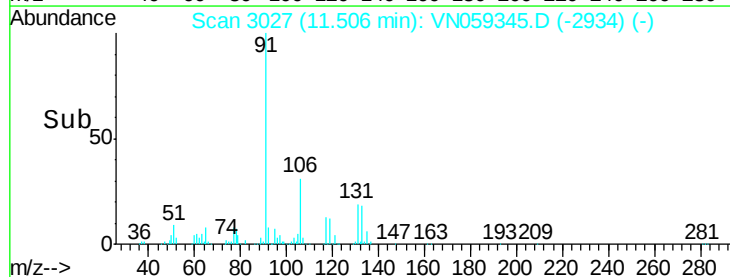
11.51

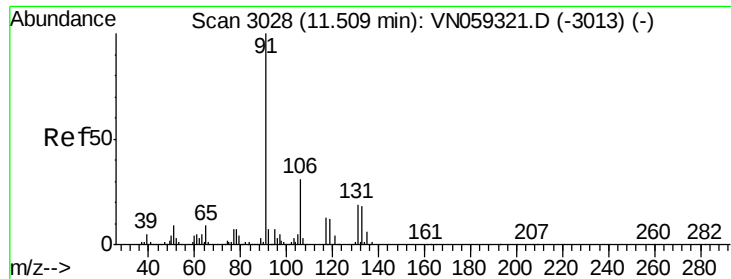
100000

50000

0

Time-->





#67

Ethyl Benzene

Concen: 49.135 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 91 Resp: 1023801

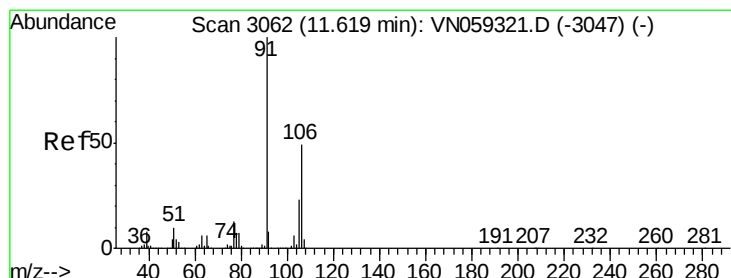
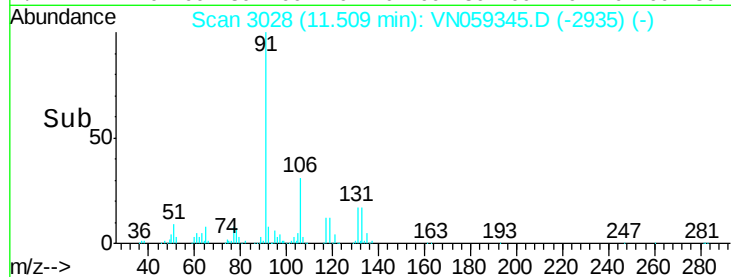
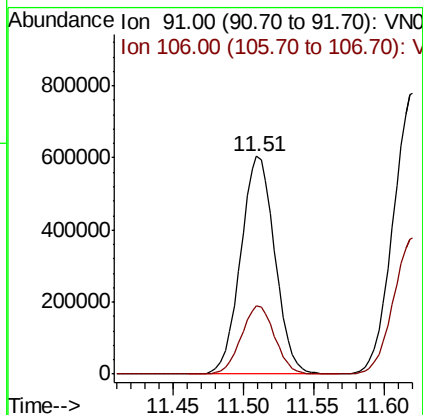
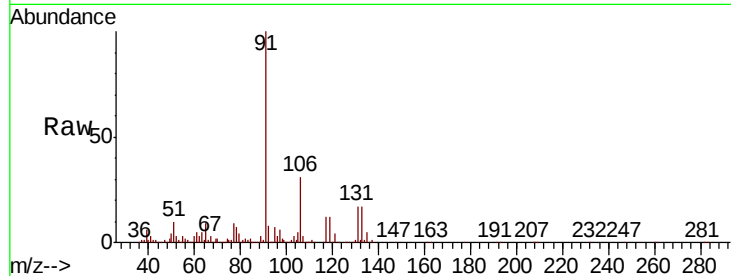
Ion Ratio Lower Upper

91 100

106 31.1 24.6 37.0

Manual Integrations
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#68

m/p-Xylenes

Concen: 94.443 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN059345.D

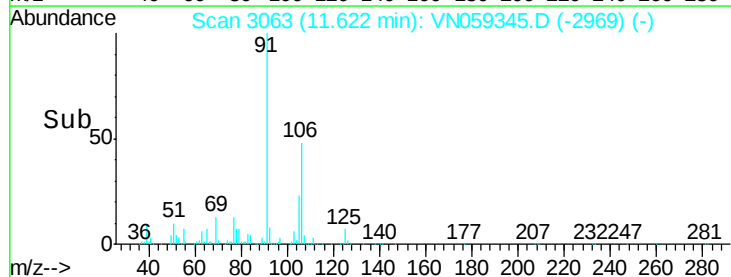
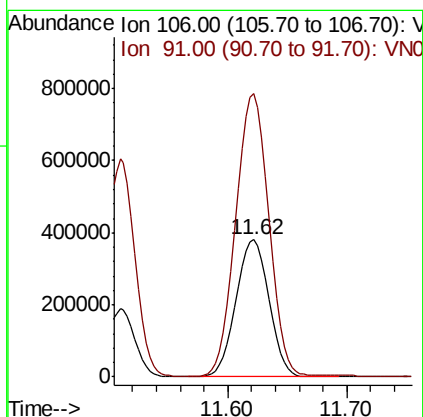
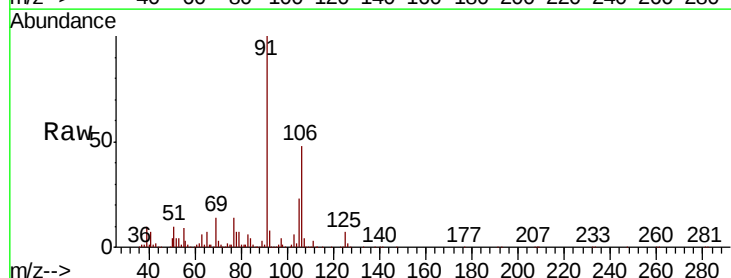
Acq: 21 Nov 2019 18:46

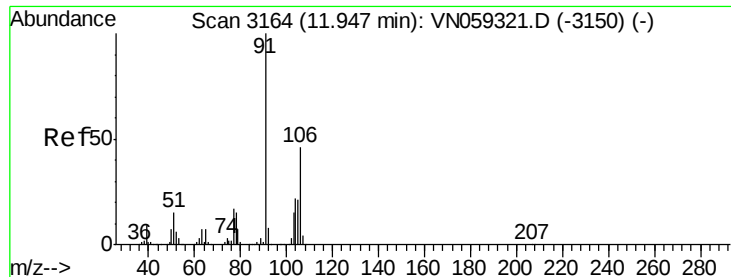
Tgt Ion: 106 Resp: 731220

Ion Ratio Lower Upper

106 100

91 207.3 163.2 244.8





#69

o-Xylene

Concen: 47.343 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleID :

MW-4-(12-14)MSD

Tot Ion:106 Resp: 350920

Ion Ratio Lower Upper

106 100

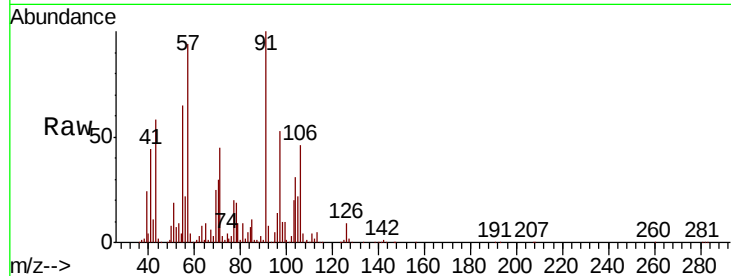
91 224.4 109.3 327.9

Manual Integrations

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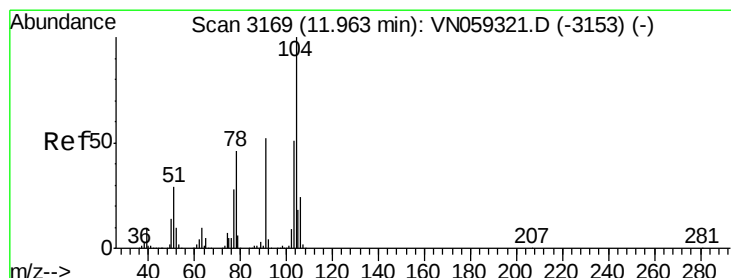
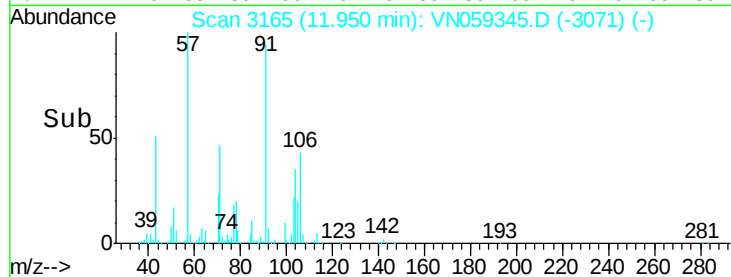
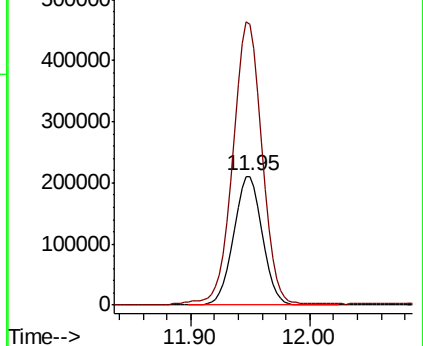
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#70

Styrene

Concen: 49.201 ug/l

RT: 11.97 min Scan# 3170

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

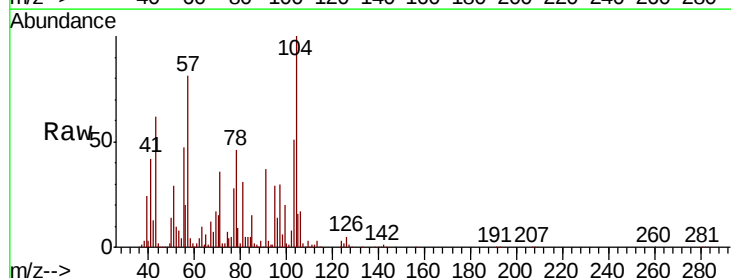
Tgt Ion:104 Resp: 575443

Ion Ratio Lower Upper

104 100

78 53.1 40.3 60.5

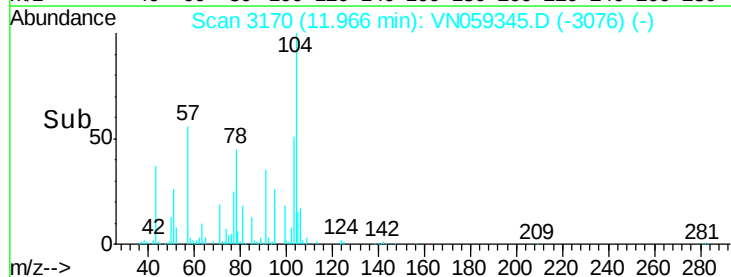
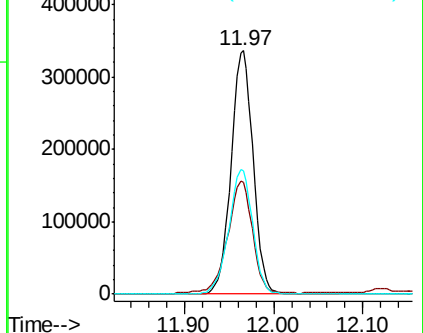
103 55.7 43.6 65.4

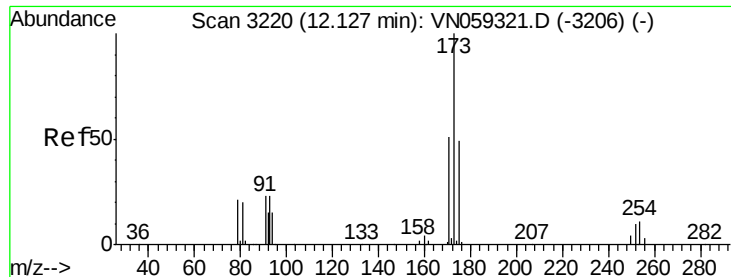


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 45.743 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

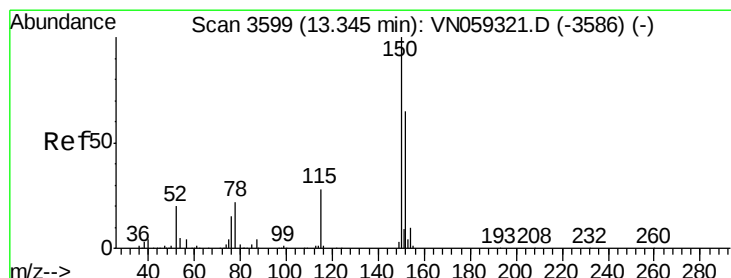
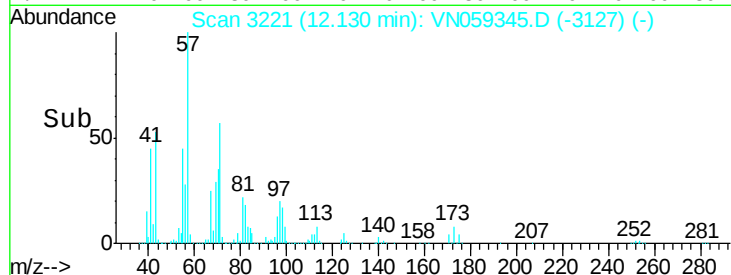
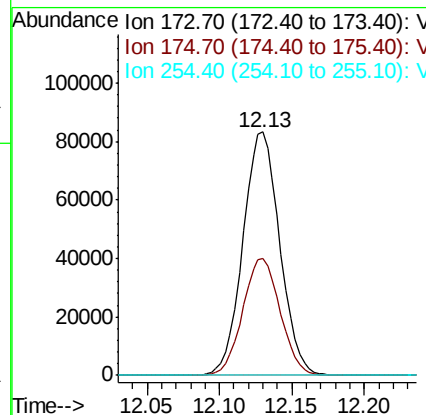
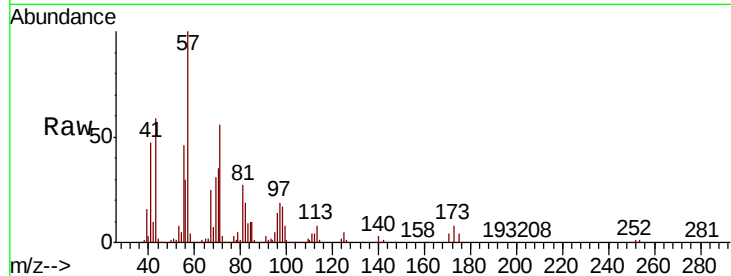
ClientSampleId :

MW-4-(12-14)MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
173	100				
175	48.8	24.6	73.6		
254	0.1	0.1	0.1		

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

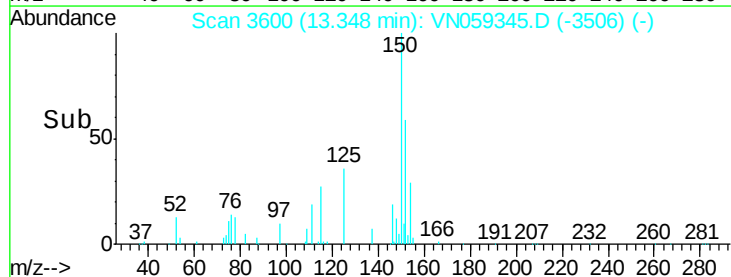
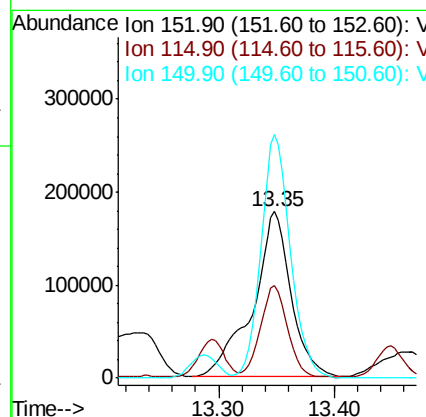
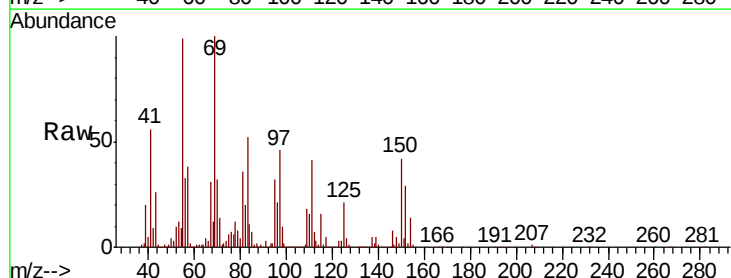
RT: 13.35 min Scan# 3600

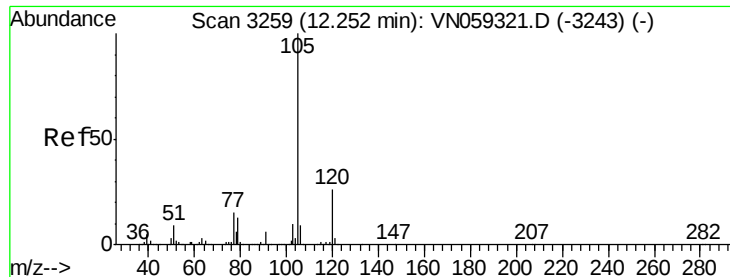
Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100				
115	39.1	29.3	88.0		
150	113.3	0.0	346.0		





#73

Isopropylbenzene

Concen: 31.799 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion:105 Resp: 1057632

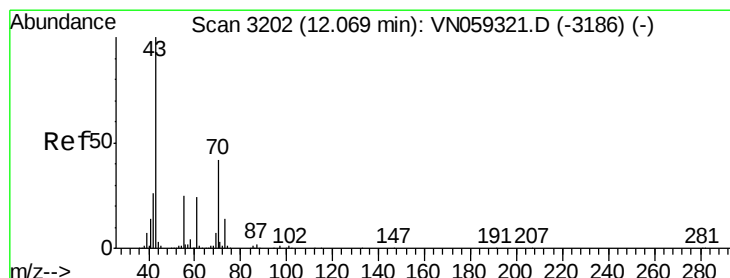
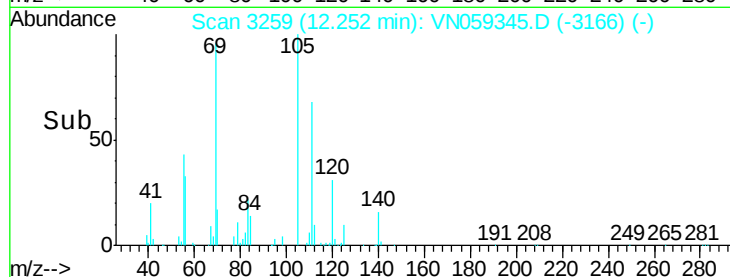
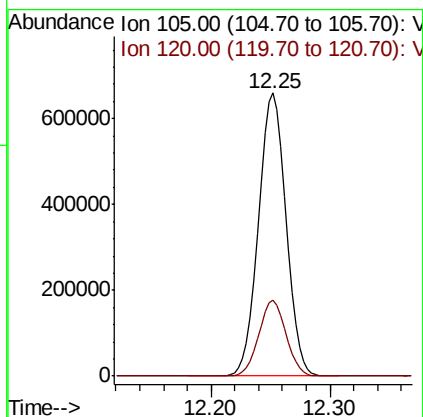
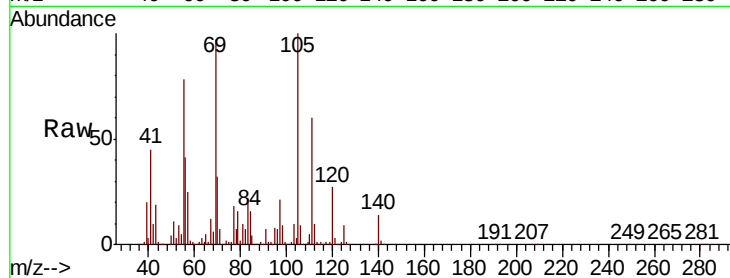
Ion Ratio Lower Upper

105 100

120 26.4 13.1 39.3

Manual Integrations
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#74

N-ethyl acetate

Concen: 219.900 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. -0.02 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Tgt Ion: 43 Resp: 2939317

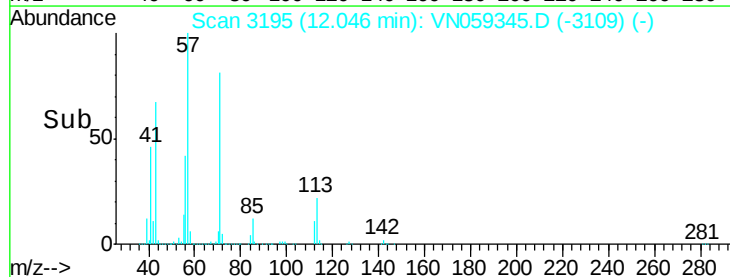
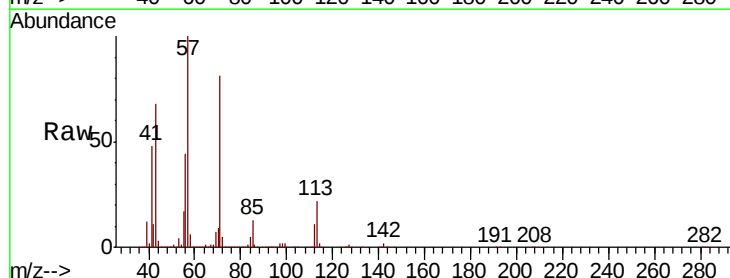
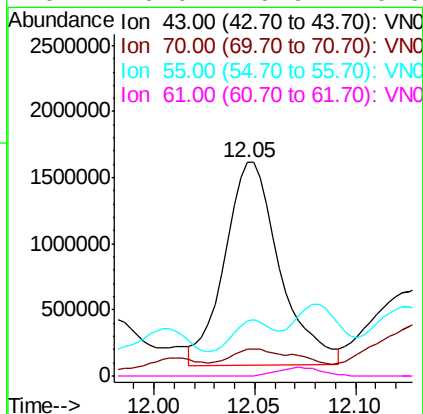
Ion Ratio Lower Upper

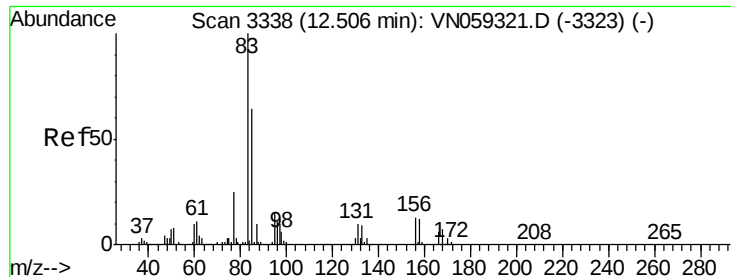
43 100

70 7.8 33.8 50.6#

55 18.8 20.3 30.5#

61 0.0 19.9 29.9#





#75

1,1,2,2-Tetrachloroethane

Concen: 62.277 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 83 Resp: 685187

Ion Ratio Lower Upper

83 100

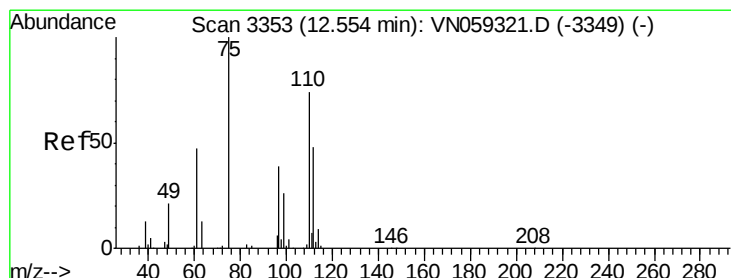
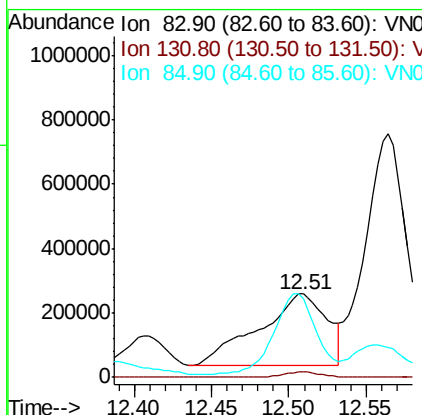
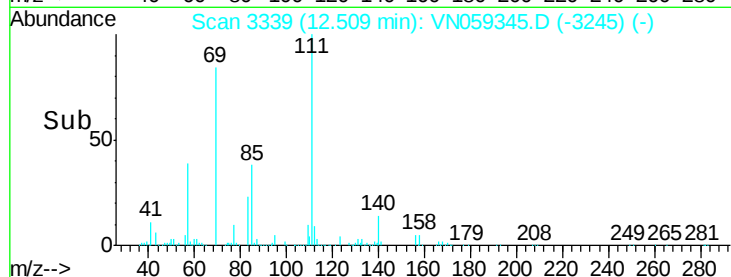
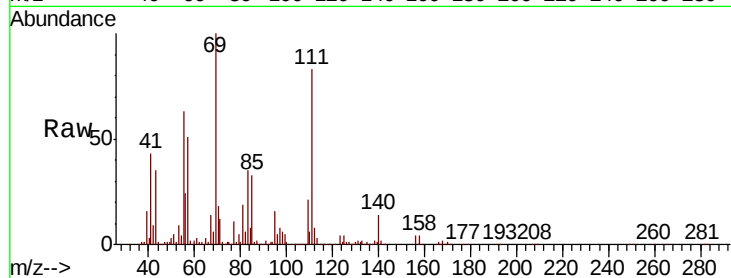
131 4.4 5.0 14.9#

85 69.8 32.1 96.3

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#76

1,2,3-Trichloropropane

Concen: 28.013 ug/l m

RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VN059345.D

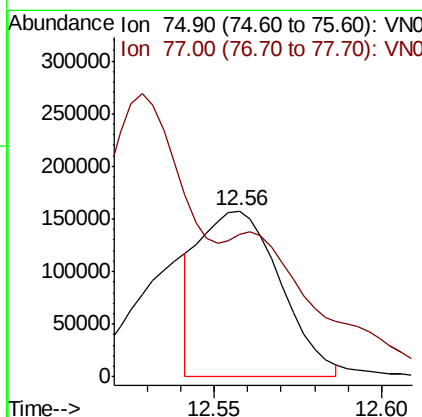
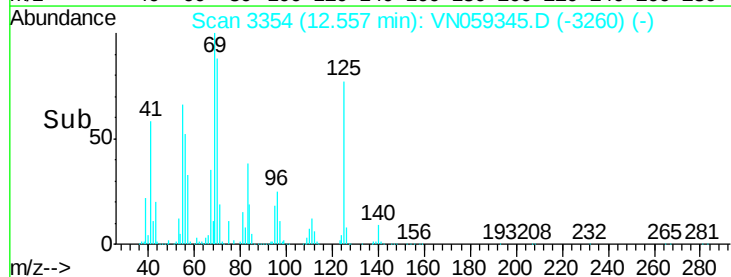
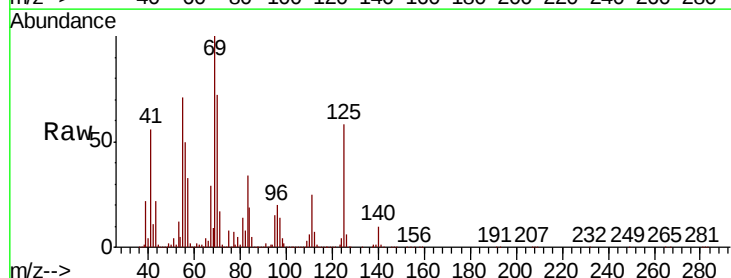
Acq: 21 Nov 2019 18:46

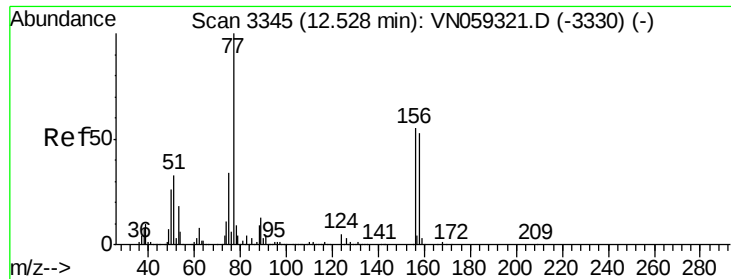
Tgt Ion: 75 Resp: 262758

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 28.207 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

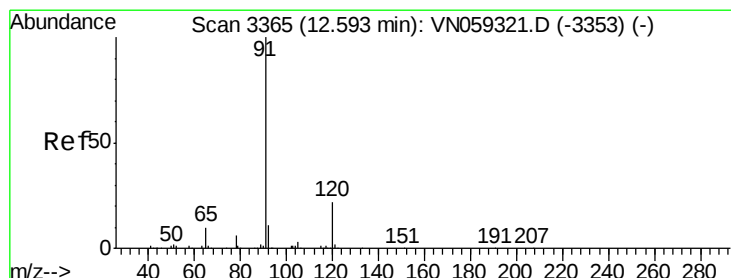
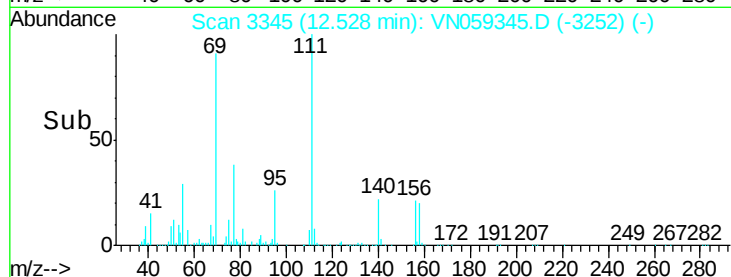
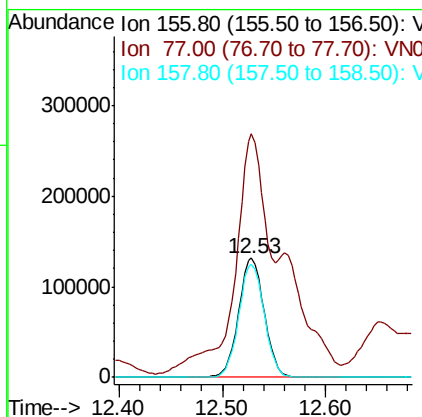
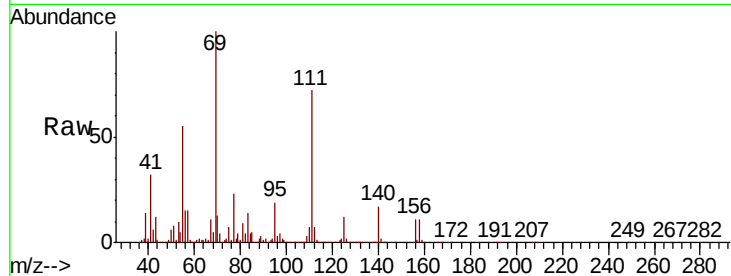
ClientSampleId :

MW-4-(12-14)MSD

Tot Ion:	156	Resp:	227548
Ion Ratio	Lower	Upper	
156	100		
77	250.4	111.1	333.4
158	94.2	47.8	143.4

Manual Integrations
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#78

n-propylbenzene

Concen: 38.008 ug/l

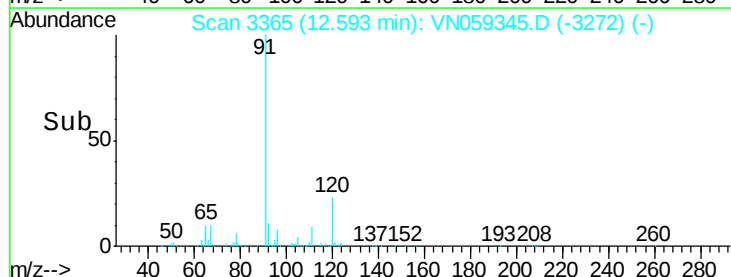
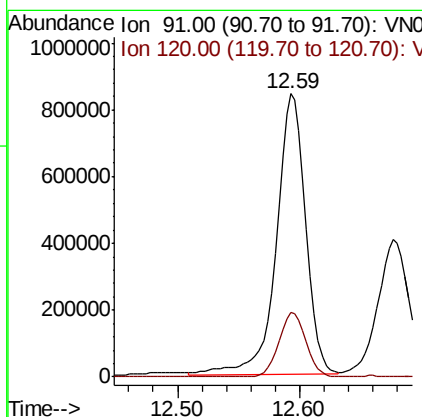
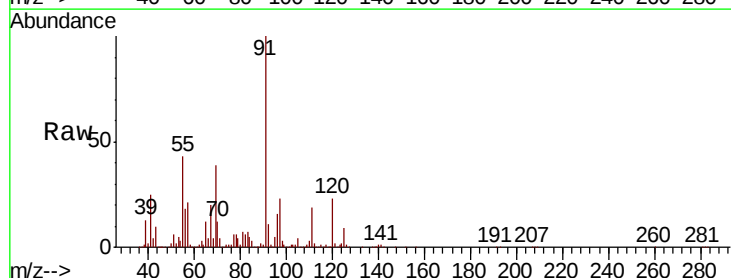
RT: 12.59 min Scan# 3365

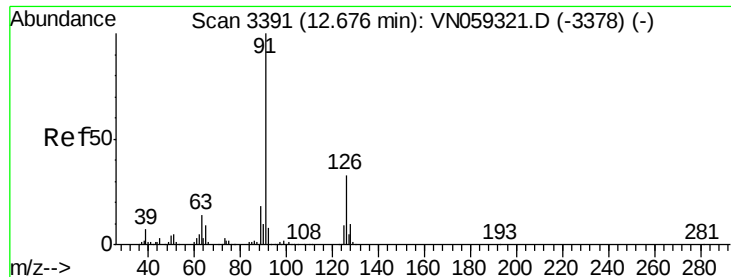
Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Tgt Ion:	91	Resp:	1431946
Ion Ratio	Lower	Upper	
91	100		
120	21.0	11.3	33.9





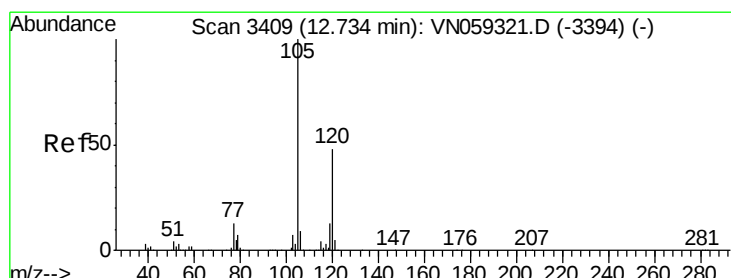
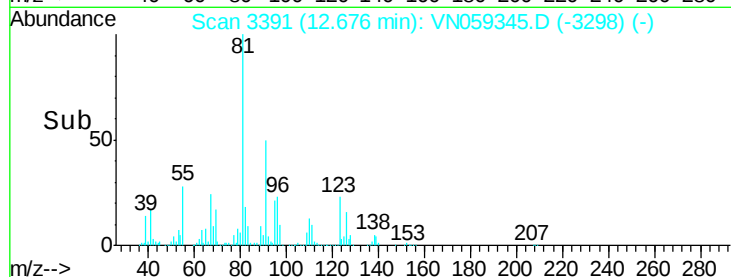
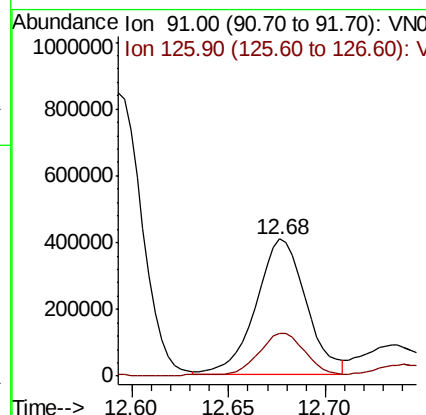
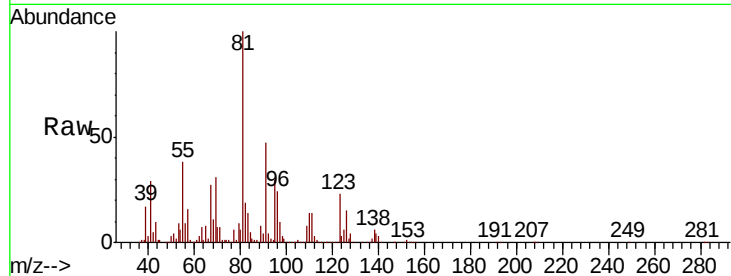
#79
2-Chlorotoluene
Concen: 31.479 ug/l
RT: 12.68 min Scan# 3391
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion: 91 Resp: 727938
Ion Ratio Lower Upper
91 100
126 29.8 16.7 50.1

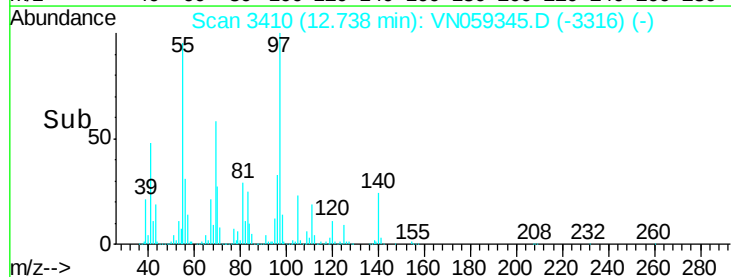
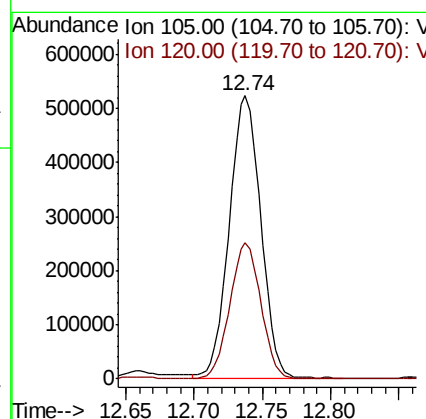
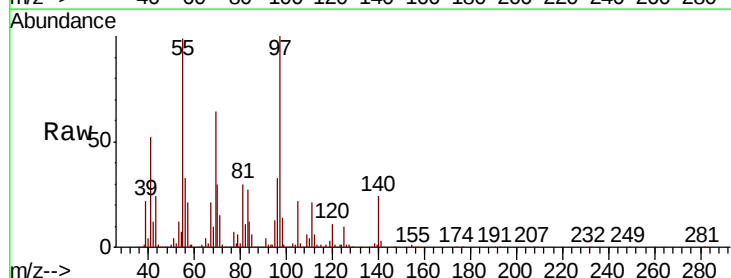
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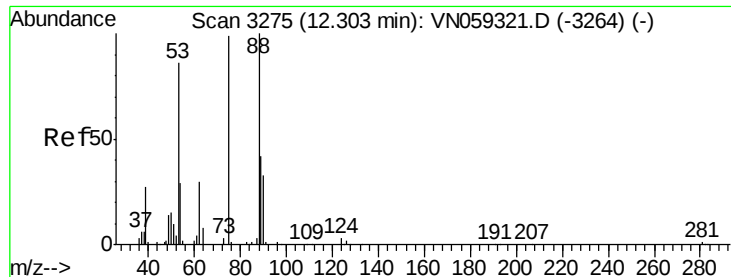
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#80
1,3,5-Trimethylbenzene
Concen: 29.885 ug/l
RT: 12.74 min Scan# 3410
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion: 105 Resp: 835541
Ion Ratio Lower Upper
105 100
120 47.7 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 29.427 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion: 75 Resp: 110357
Ion Ratio Lower Upper

75 100

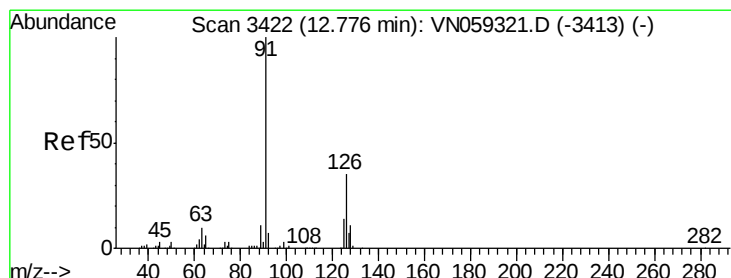
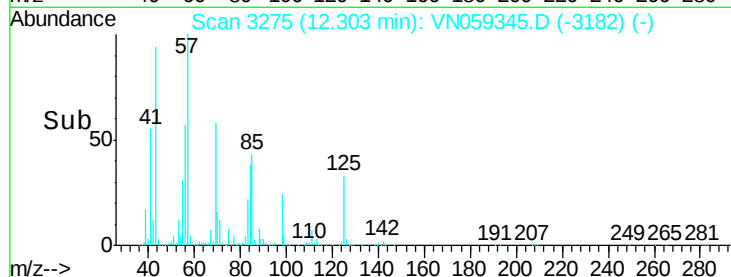
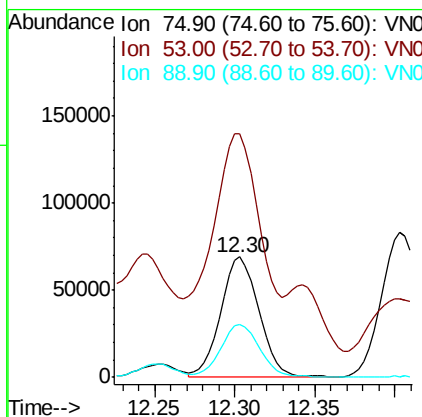
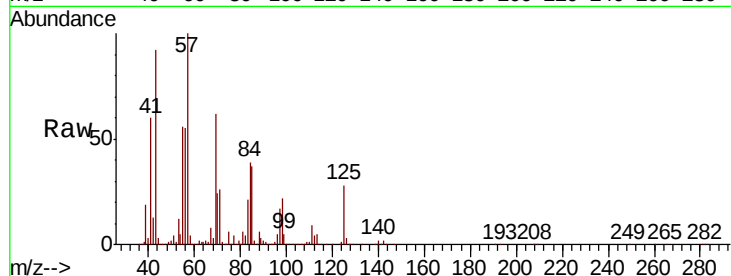
53 136.8 70.7 106.1#

89 45.1 35.4 53.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 29.146 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

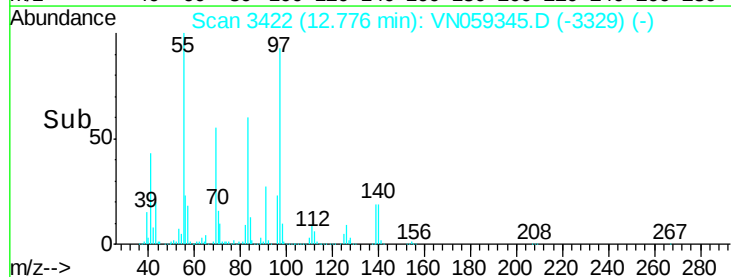
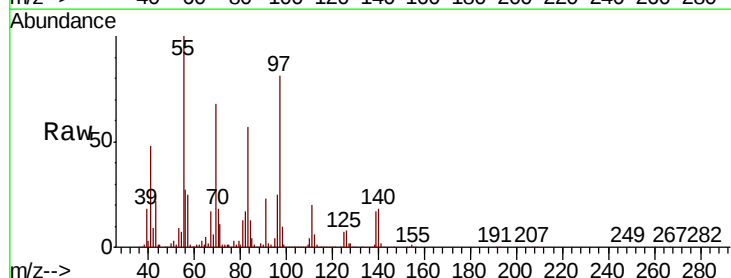
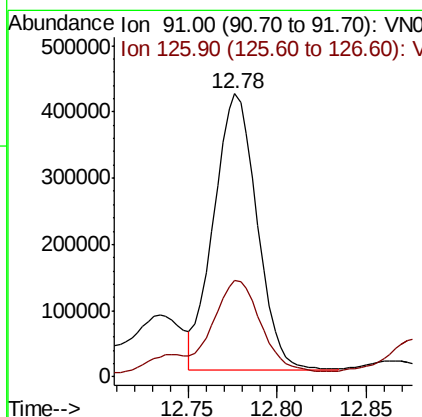
Lab File: VN059345.D

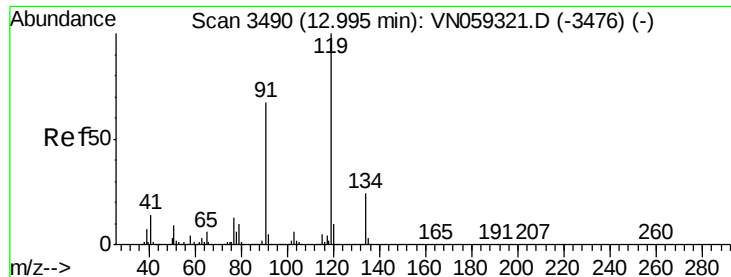
Acq: 21 Nov 2019 18:46

Tgt Ion: 91 Resp: 697453
Ion Ratio Lower Upper

91 100

126 38.3 16.2 48.6





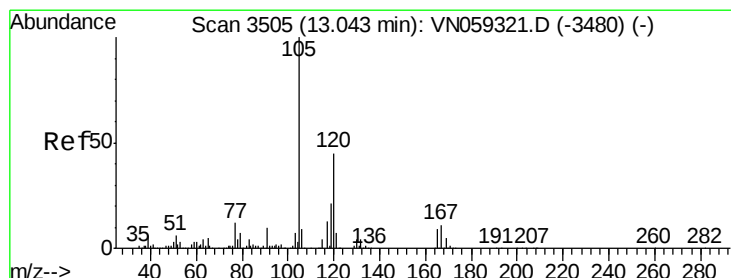
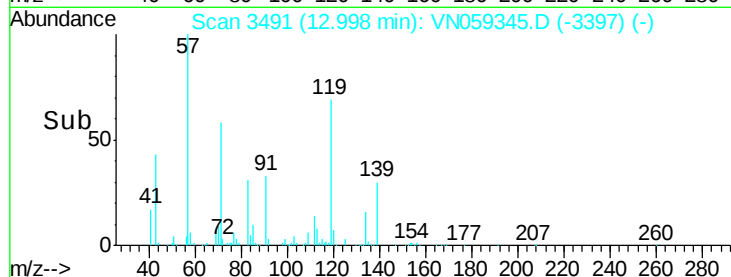
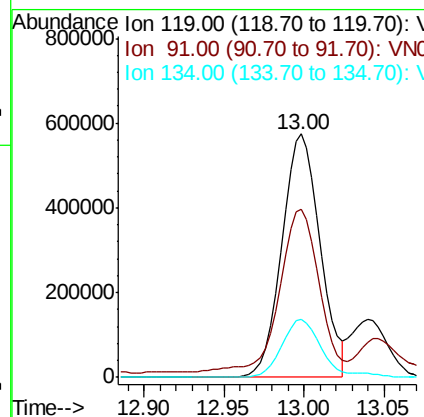
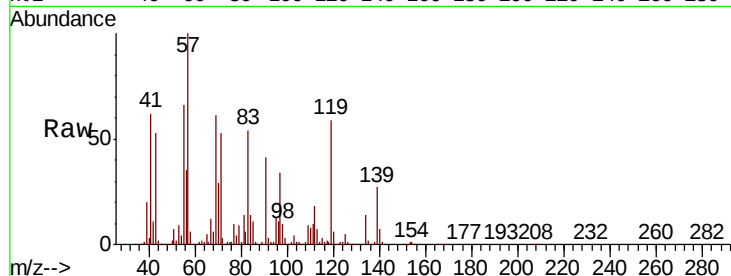
#83
tert-Butylbenzene
Concen: 40.479 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.5	32.8	98.4
134	25.0	13.0	38.9

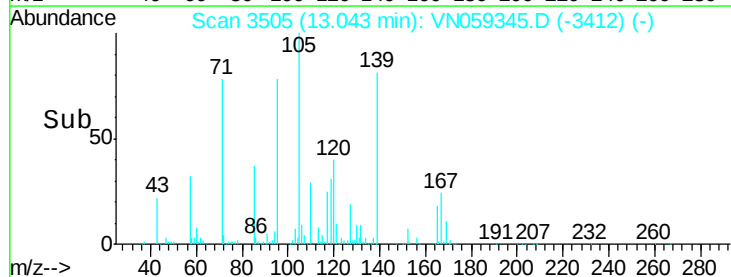
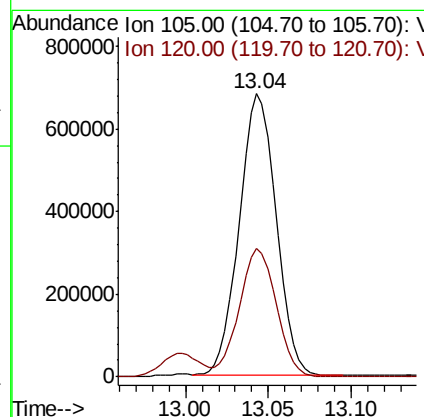
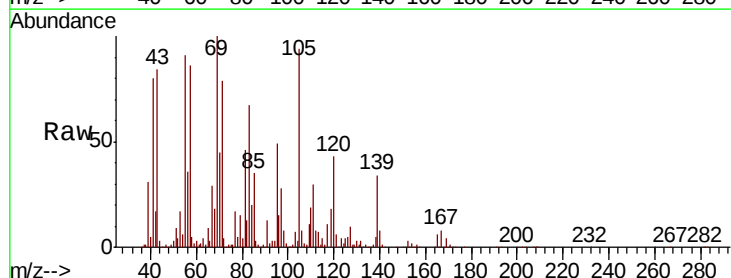
Manual Integrations
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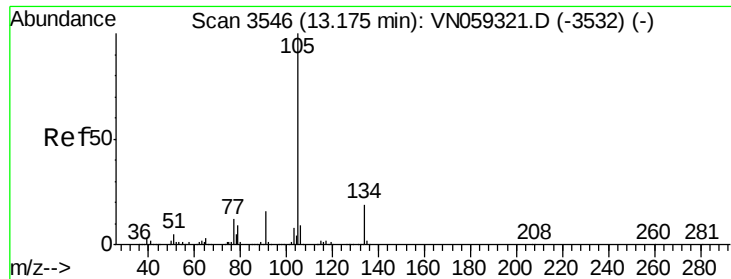
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 38.739 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.6	67.8





#85

sec-Butylbenzene

Concen: 49.747 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

ClientSampleId :

MW-4-(12-14)MSD

Tot Ion:105 Resp: 1578856

Ion Ratio Lower Upper

105 100

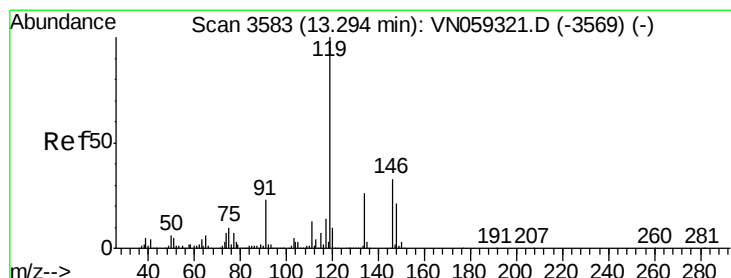
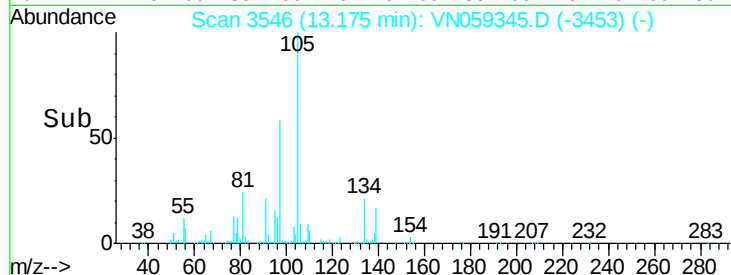
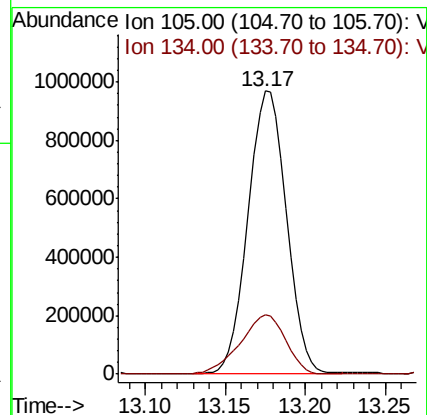
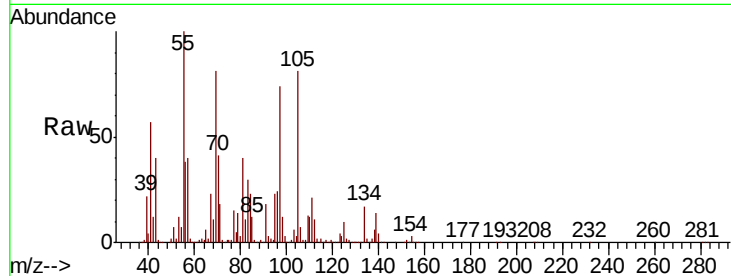
134 24.9 9.8 29.3

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#86

p-Isopropyltoluene

Concen: 31.715 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

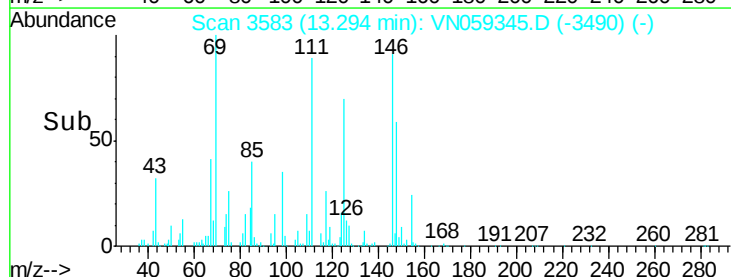
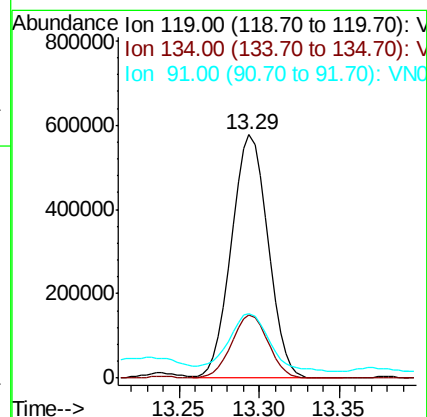
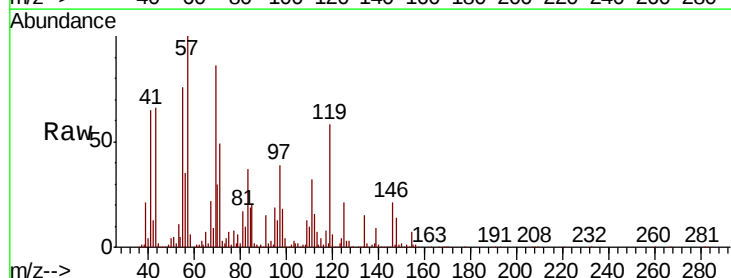
Tgt Ion:119 Resp: 895678

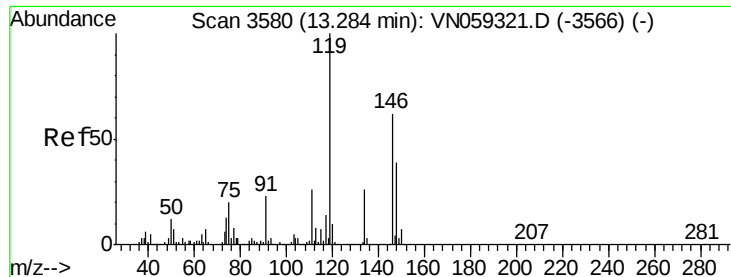
Ion Ratio Lower Upper

119 100

134 25.8 13.0 38.9

91 26.4 11.6 34.7





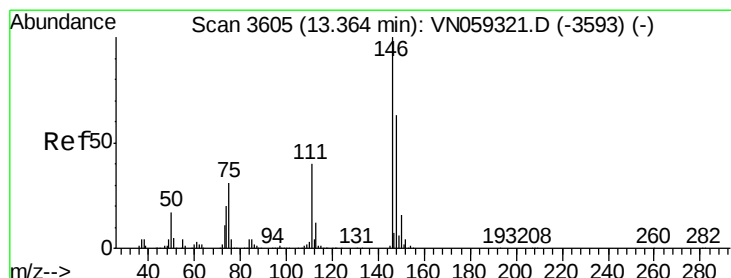
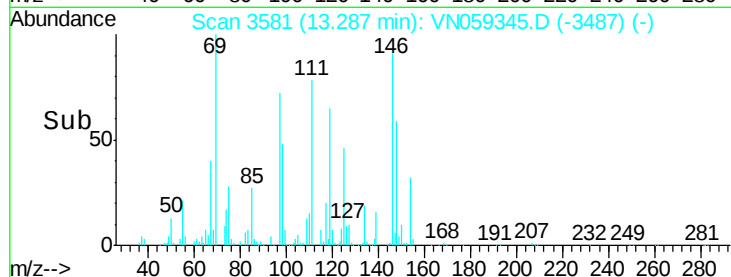
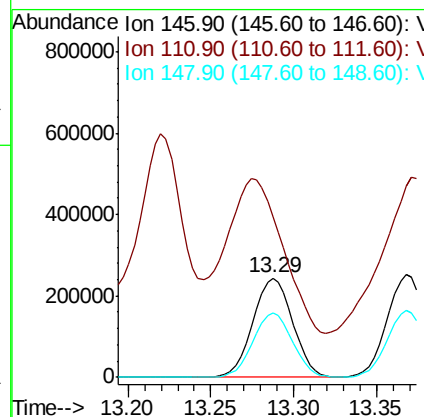
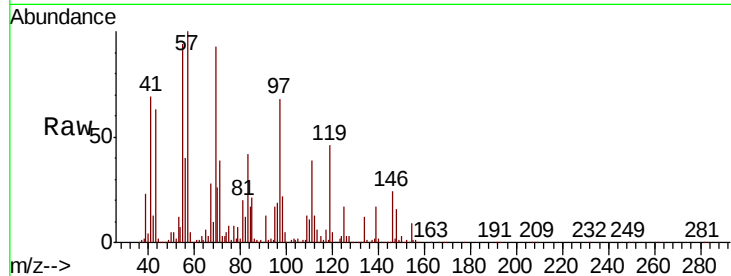
#87
 1,3-Dichlorobenzene
 Concen: 28.294 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN059345.D
 Acq: 21 Nov 2019 18:46

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	215.4	20.6	61.8#
148	64.6	31.9	95.5

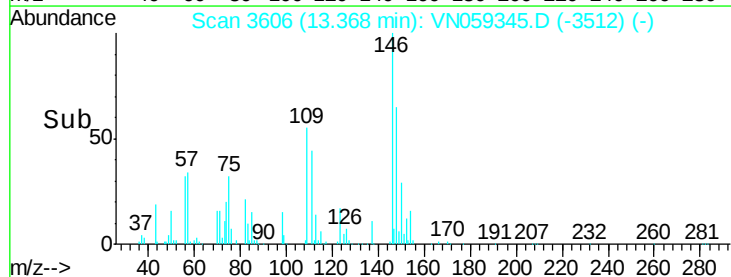
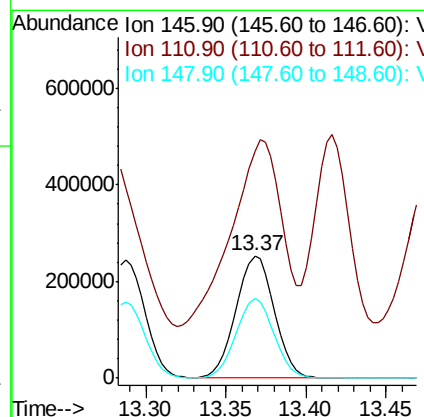
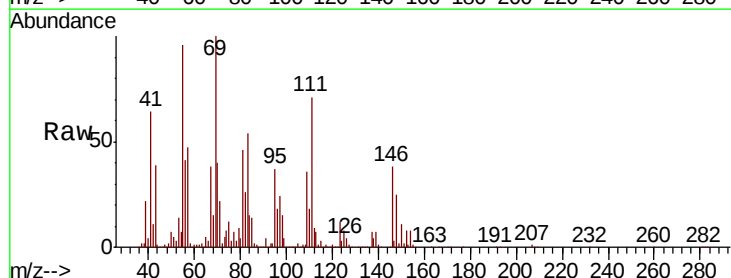
Manual Integrations
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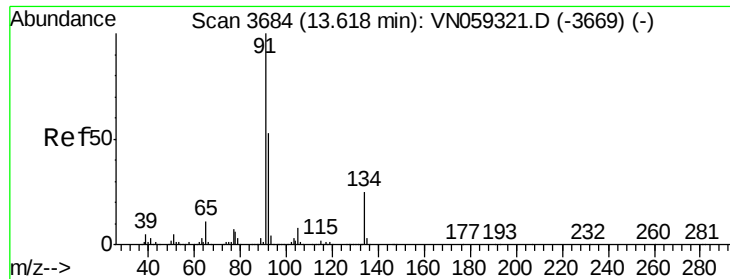
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#88
 1,4-Dichlorobenzene
 Concen: 28.910 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN059345.D
 Acq: 21 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	198.2	20.1	60.3#
148	64.3	31.7	95.1





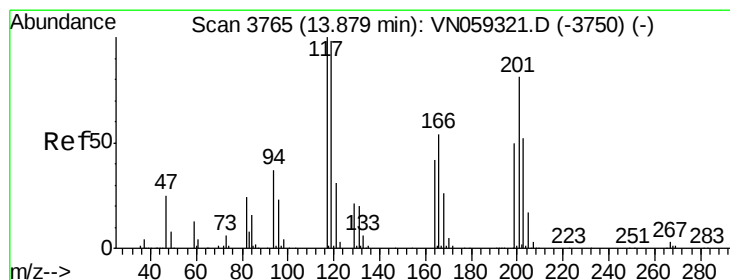
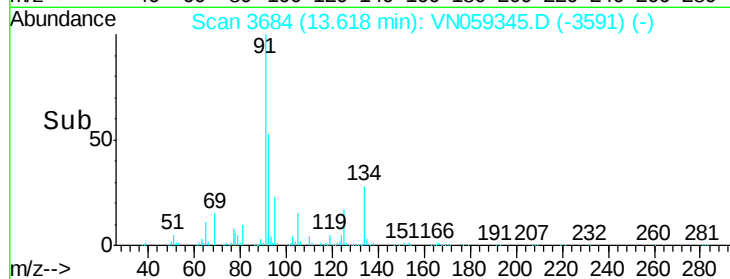
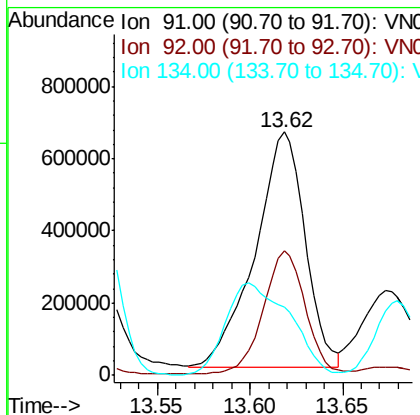
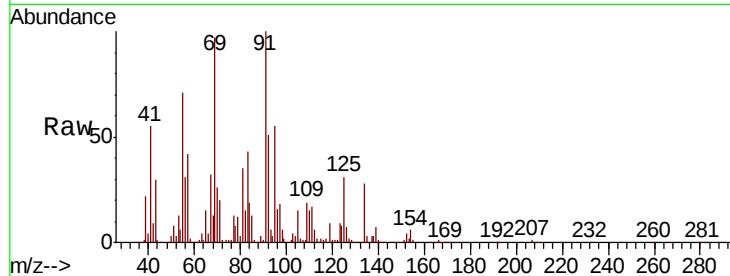
#89
n-Butylbenzene
Concen: 49.634 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion	Ratio	Lower	Upper
91	100		
92	43.8	26.0	78.0
134	50.0	12.7	38.1

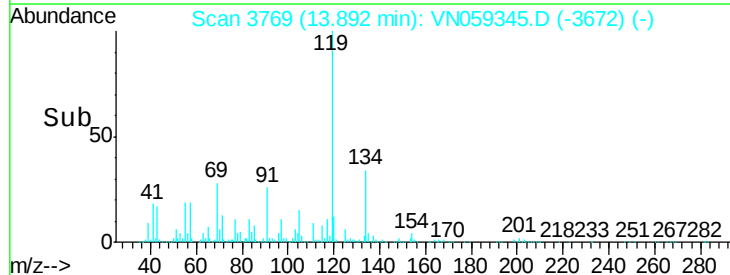
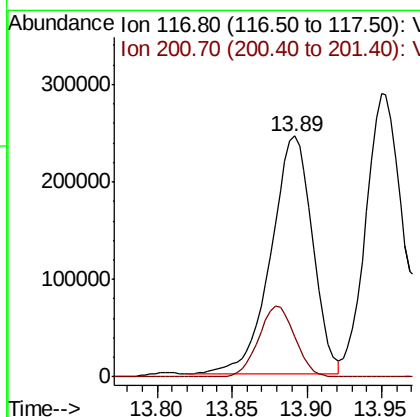
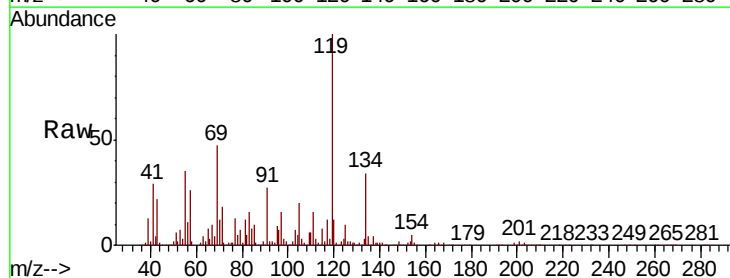
Manual Integrations
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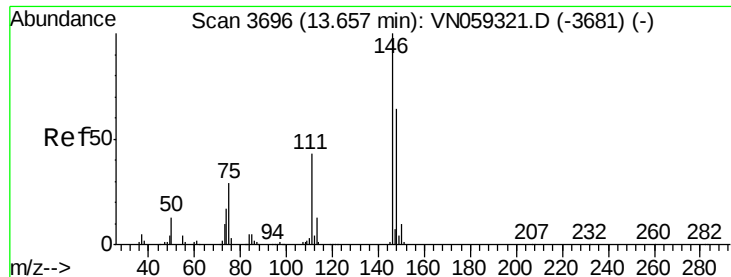
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#90
Hexachloroethane
Concen: 88.144 ug/l
RT: 13.89 min Scan# 3769
Delta R.T. 0.01 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	26.0	40.4	121.2





#91

1,2-Dichlorobenzene

Concen: 29.025 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Instrument :

MSVOA_N

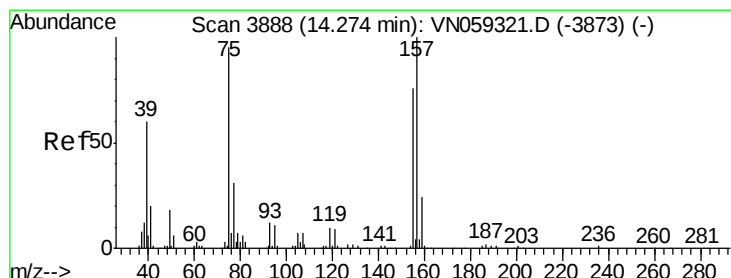
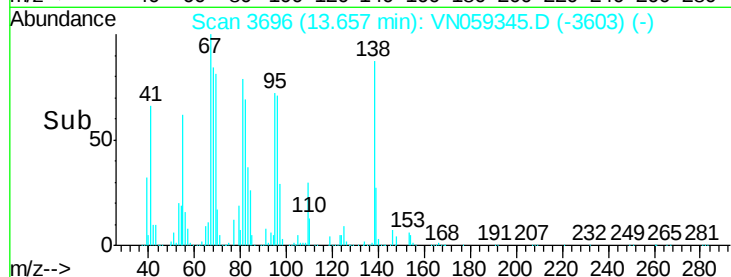
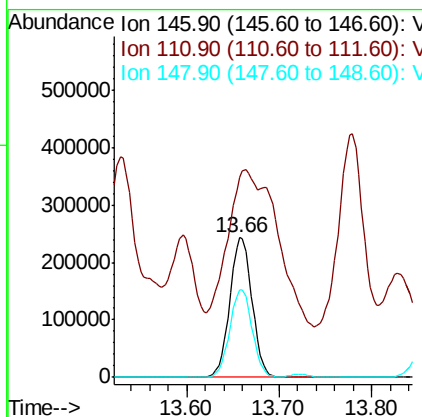
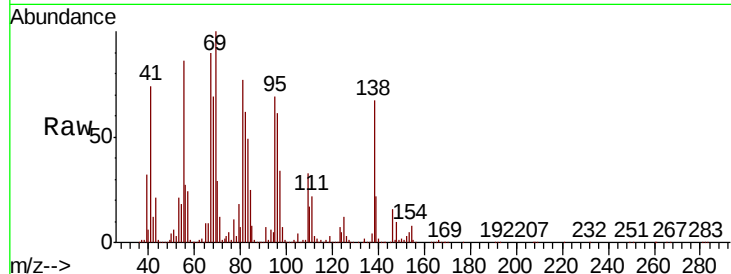
ClientSampleId :

MW-4-(12-14)MSD

Tot Ion:	146	Resp:	403438
Ion Ratio	Lower	Upper	
146	100		
111	136.0	21.3	64.0#
148	63.3	31.9	95.5

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 28.965 ug/l

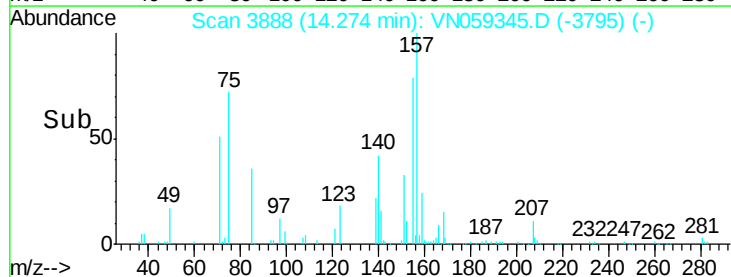
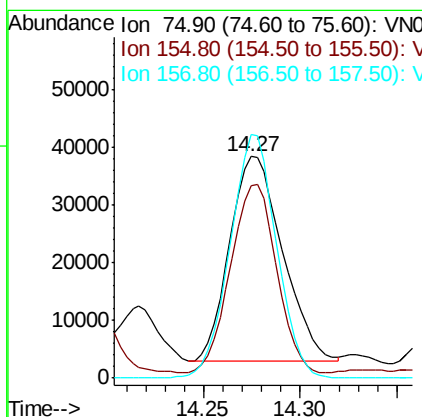
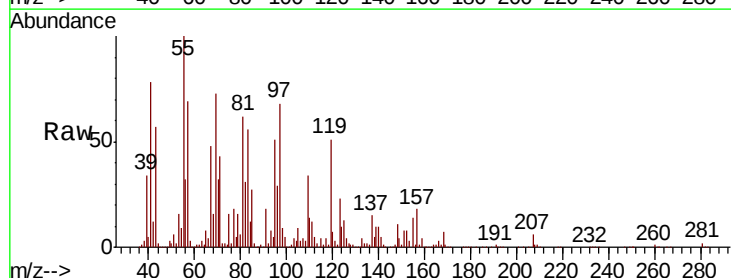
RT: 14.27 min Scan# 3888

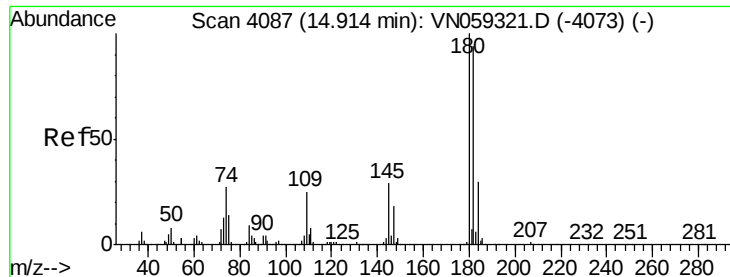
Delta R.T. 0.00 min

Lab File: VN059345.D

Acq: 21 Nov 2019 18:46

Tgt Ion:	75	Resp:	67752
Ion Ratio	Lower	Upper	
75	100		
155	80.1	40.5	121.5
157	104.0	52.7	158.1





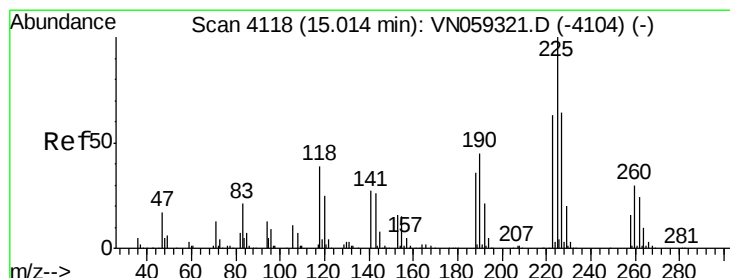
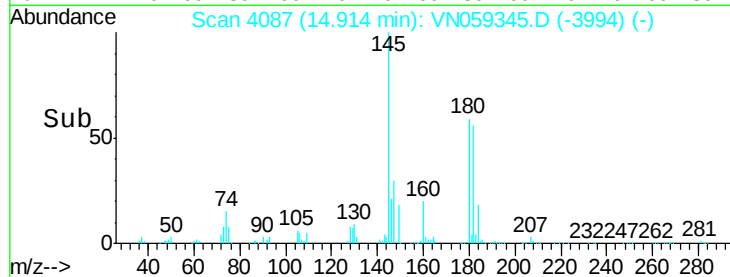
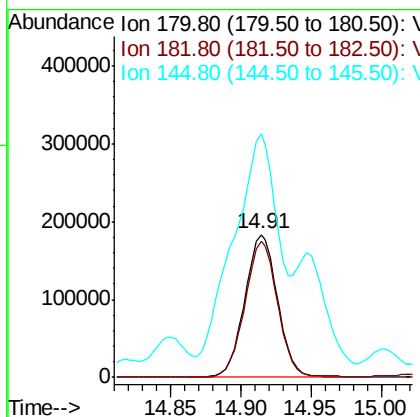
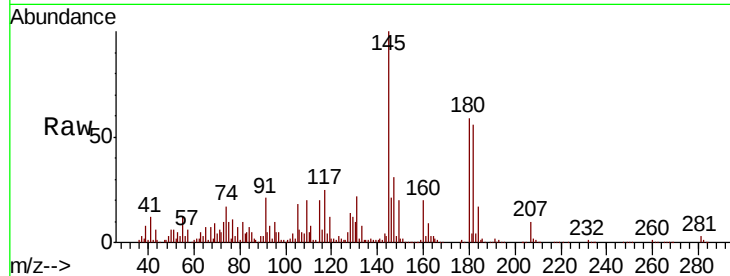
#93
 1,2,4-Trichlorobenzene
 Concen: 35.102 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059345.D
 Acq: 21 Nov 2019 18:46

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-(12-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.6	47.2	141.6	
145	210.8	14.9	44.5#	

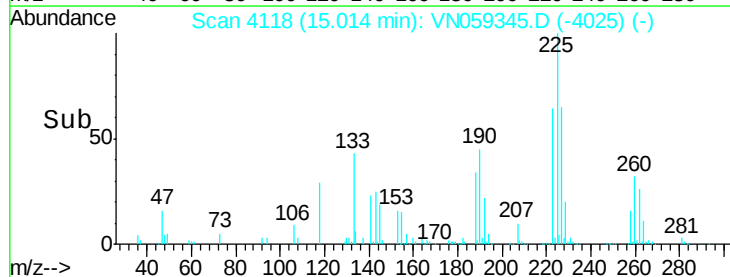
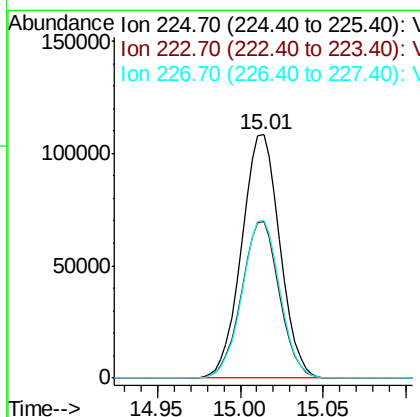
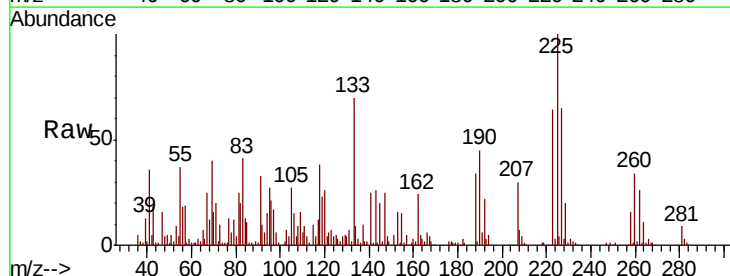
Manual Integrations
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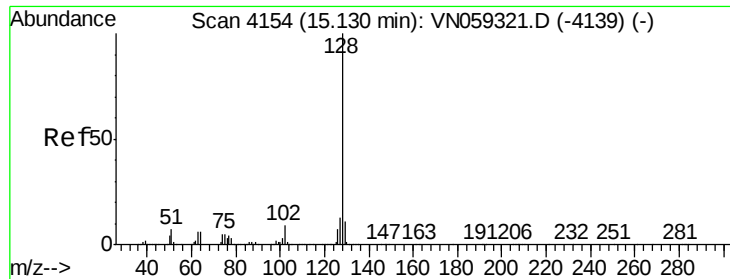
MMDadoda
 11/22/2019 3:12:55 PM



#94
 Hexachlorobutadiene
 Concen: 34.723 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN059345.D
 Acq: 21 Nov 2019 18:46

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.7	31.6	94.8	
227	64.3	32.6	97.7	





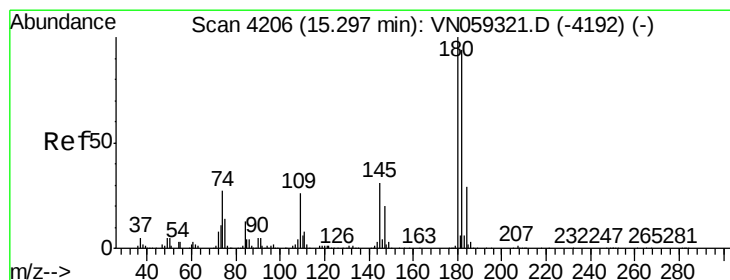
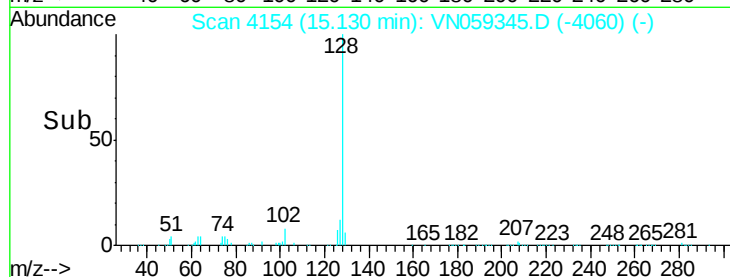
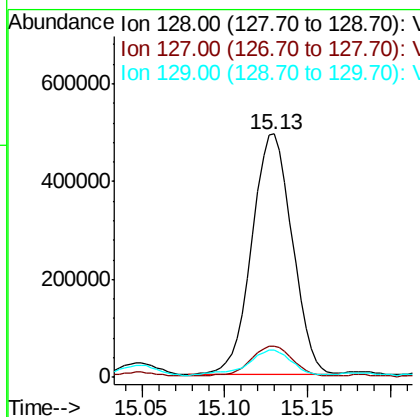
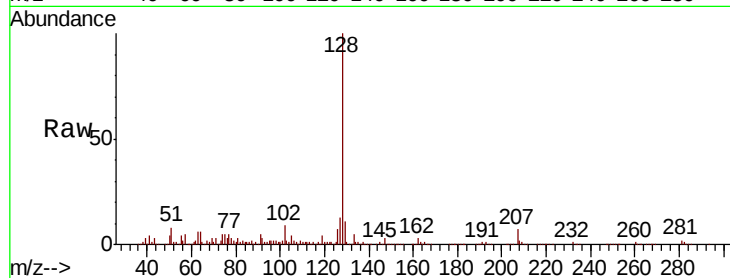
#95
Naphthalene
Concen: 35.870 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Instrument :
MSVOA_N
ClientSampleId :
MW-4-(12-14)MSD

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.6	13.0

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 34.062 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN059345.D
Acq: 21 Nov 2019 18:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.1	141.4
145	99.2	15.6	46.8#

