

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058232.D
 Acq On : 20 Sep 2019 1:53
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 3:37:06 PM

Quant Time: Sep 20 07:54:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	482462	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	823210	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	753314	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	363249	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	360342	53.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.24%	
35) Dibromofluoromethane	7.57	113	261645	52.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.56%	
50) Toluene-d8	10.09	98	1022121	52.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.84%	
62) 4-Bromofluorobenzene	12.41	95	376364	51.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	186179	46.976	ug/l	99
3) Chloromethane	2.03	50	156668	51.310	ug/l	97
4) Vinyl Chloride	2.17	62	168715	50.513	ug/l	100
5) Bromomethane	2.54	94	86295	48.815	ug/l	99
6) Chloroethane	2.68	64	109998	51.454	ug/l	100
7) Trichlorofluoromethane	3.00	101	249170	46.060	ug/l	99
8) Diethyl Ether	3.39	74	122846	49.560	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	183399	47.021	ug/l	100
10) Methyl Iodide	3.93	142	140814	43.085	ug/l	98
11) Tert butyl alcohol	4.75	59	223401	279.485	ug/l	100
12) 1,1-Dichloroethene	3.72	96	149641	50.559	ug/l	98
13) Acrolein	3.59	56	31793	268.391	ug/l	97
14) Allyl chloride	4.30	41	276343	43.299	ug/l	89
15) Acrylonitrile	4.96	53	584510	274.464	ug/l	99
16) Acetone	3.79	43	497489	218.106	ug/l	98
17) Carbon Disulfide	4.03	76	196082	47.079	ug/l	97
18) Methyl Acetate	4.30	43	316500	52.733	ug/l	100
19) Methyl tert-butyl Ether	5.02	73	783070	53.230	ug/l	99
20) Methylene Chloride	4.53	84	213283	53.423	ug/l	99
21) trans-1,2-Dichloroethene	5.02	96	162074	50.251	ug/l	97
22) Diisopropyl ether	5.93	45	850354	52.451	ug/l	98
23) Vinyl Acetate	5.87	43	3071910	276.914	ug/l	99
24) 1,1-Dichloroethane	5.83	63	442596	51.151	ug/l	99
25) 2-Butanone	6.82	43	806449	259.515	ug/l	99
26) 2,2-Dichloropropane	6.81	77	285107	38.839	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	247254	50.537	ug/l	99
28) Bromochloromethane	7.18	49	221003	53.991	ug/l	100
29) Tetrahydrofuran	7.19	42	500229	261.332	ug/l	99
30) Chloroform	7.36	83	475437	51.046	ug/l	99
31) Cyclohexane	7.64	56	276799	49.463	ug/l	100
32) 1,1,1-Trichloroethane	7.55	97	370710	52.283	ug/l	100
36) 1,1-Dichloropropene	7.78	75	272869	45.964	ug/l	99
37) Ethyl Acetate	6.91	43	320375	52.002	ug/l	100
38) Carbon Tetrachloride	7.76	117	290659	48.706	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	268706	46.818	ug/l	97
40) Benzene	8.03	78	885468	48.834	ug/l	99
41) Methacrylonitrile	7.15	41	150359	48.474	ug/l #	100
42) 1,2-Dichloroethane	8.11	62	381567	50.151	ug/l	100
43) Isopropyl Acetate	8.15	43	576923	50.141	ug/l #	92
44) Trichloroethene	8.82	130	217821	49.090	ug/l	100
45) 1,2-Dichloropropane	9.11	63	279407	51.599	ug/l	99
46) Dibromomethane	9.20	93	166616	50.609	ug/l	100
47) Bromodichloromethane	9.39	83	367669	53.308	ug/l	98
48) Methyl methacrylate	9.19	41	278064	53.226	ug/l	98
49) 1,4-Dioxane	9.19	88	91600	1067.946	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	1773695	290.222	ug/l	99
52) Toluene	10.15	92	556319	48.956	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	369458	52.293	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	392627	50.335	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	265042	52.557	ug/l	99
56) Ethyl methacrylate	10.43	69	394181	54.175	ug/l	99
57) 1,3-Dichloropropane	10.71	76	449818	51.886	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	982087	283.365	ug/l	99
59) 2-Hexanone	10.75	43	1272738	280.403	ug/l	99
60) Dibromochloromethane	10.90	129	266432	54.917	ug/l	99
61) 1,2-Dibromoethane	11.00	107	243037	52.004	ug/l	100
64) Tetrachloroethene	10.63	164	175549	47.805	ug/l	98
65) Chlorobenzene	11.43	112	654073	49.363	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	253894	52.844	ug/l	99
67) Ethyl Benzene	11.51	91	1169327	51.503	ug/l	99
68) m/p-Xylenes	11.62	106	856734	100.190	ug/l	98
69) o-Xylene	11.95	106	428382	50.948	ug/l	99
70) Styrene	11.97	104	772186	53.301	ug/l	99
71) Bromoform	12.13	173	168372	47.464	ug/l #	100
73) Isopropylbenzene	12.25	105	1226924	53.961	ug/l	100
74) N-amyl acetate	12.07	43	546441	57.448	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	405420	53.246	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	312485m	48.067	ug/l	
77) Bromobenzene	12.53	156	285523	49.922	ug/l	98
78) n-propylbenzene	12.60	91	1413849	54.721	ug/l	100
79) 2-Chlorotoluene	12.68	91	856661	53.052	ug/l	100
80) 1,3,5-Trimethylbenzene	12.74	105	1039791	54.080	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	99414	46.032	ug/l	98
82) 4-Chlorotoluene	12.78	91	889863	52.426	ug/l	100
83) tert-Butylbenzene	13.00	119	917905	53.534	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1058708	55.332	ug/l	99
85) sec-Butylbenzene	13.18	105	1243555	55.463	ug/l	100
86) p-Isopropyltoluene	13.29	119	1111390	55.756	ug/l	100
87) 1,3-Dichlorobenzene	13.29	146	553010	52.938	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	553264	51.878	ug/l	100
89) n-Butylbenzene	13.62	91	1018959	53.919	ug/l	100
90) Hexachloroethane	13.88	117	173467	49.648	ug/l	98
91) 1,2-Dichlorobenzene	13.66	146	563724	53.797	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.28	75	77558	56.580	ug/l	98

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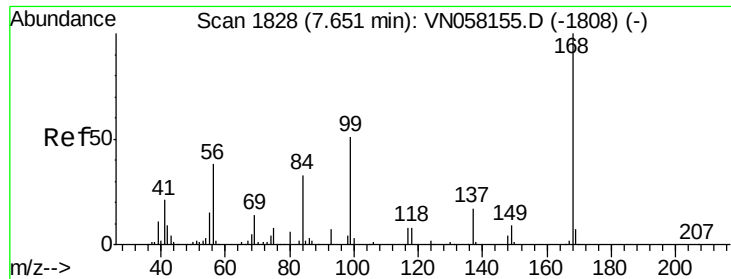
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	363050	54.226	ug/l	99
94) Hexachlorobutadiene	15.01	225	162963	50.360	ug/l	97
95) Naphthalene	15.13	128	1029658	59.343	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	350547	55.396	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 482462

Ion Ratio Lower Upper

168 100

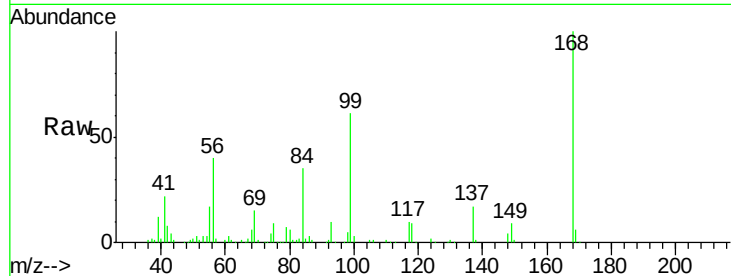
99 60.4 47.4 71.2

Manual Integrations

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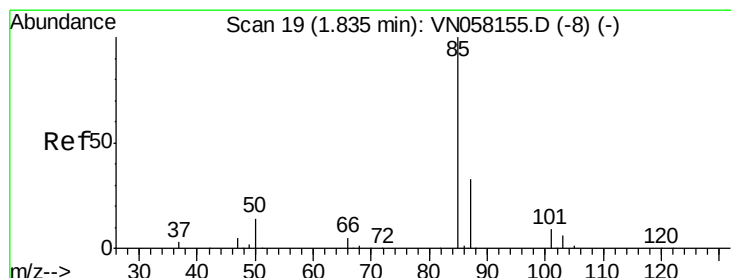
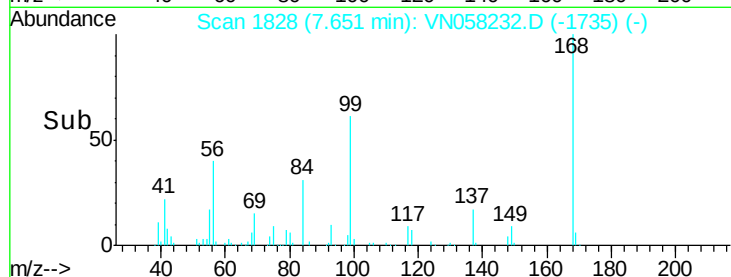
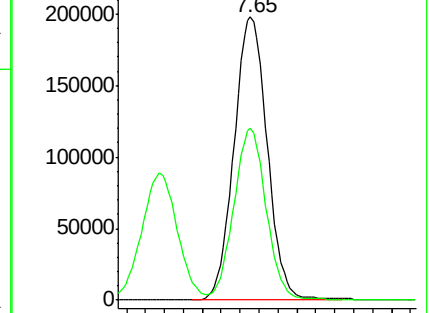
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 46.976 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058232.D

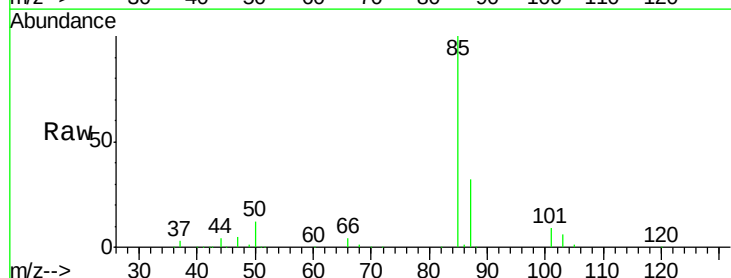
Acq: 20 Sep 2019 1:53

Tgt Ion: 85 Resp: 186179

Ion Ratio Lower Upper

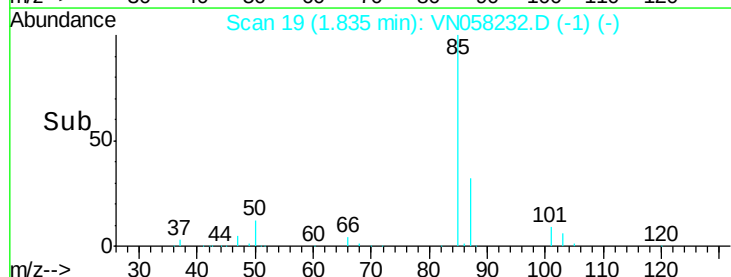
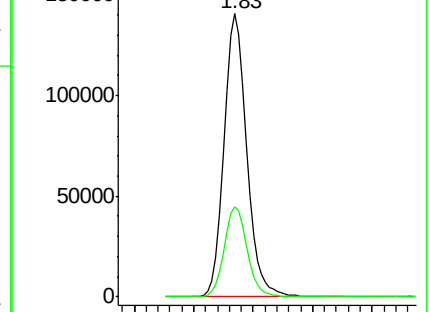
85 100

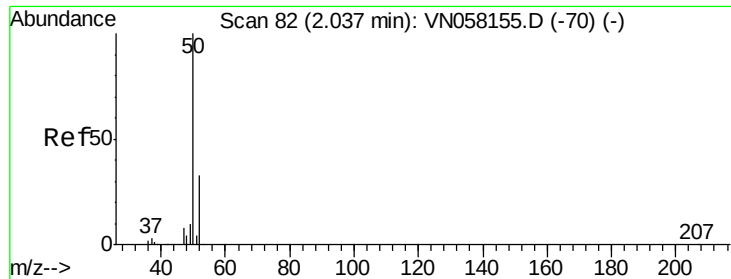
87 32.0 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 51.310 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 156668

Ion Ratio Lower Upper

50 100

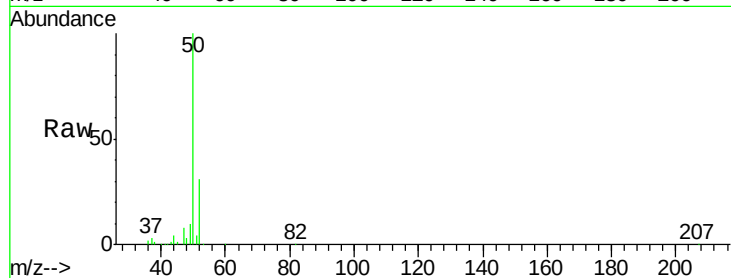
52 31.3 26.3 39.5

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.03

120000

100000

80000

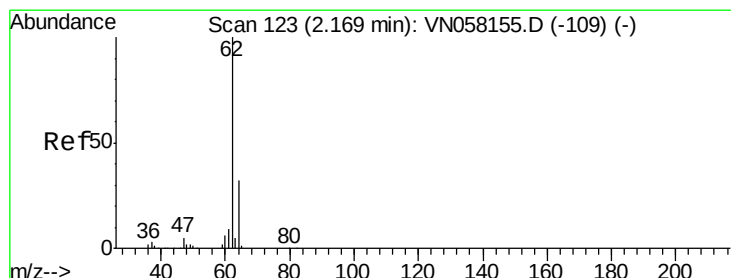
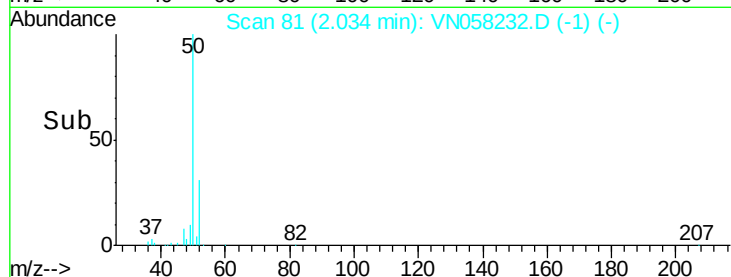
60000

40000

20000

0

Time--> 1.95 2.00 2.05 2.10



#4

Vinyl Chloride

Concen: 50.513 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058232.D

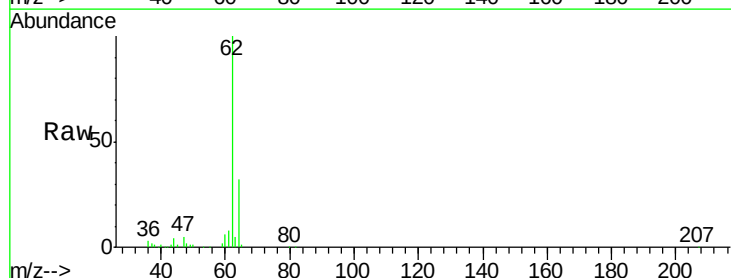
Acq: 20 Sep 2019 1:53

Tgt Ion: 62 Resp: 168715

Ion Ratio Lower Upper

62 100

64 31.9 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.17

120000

100000

80000

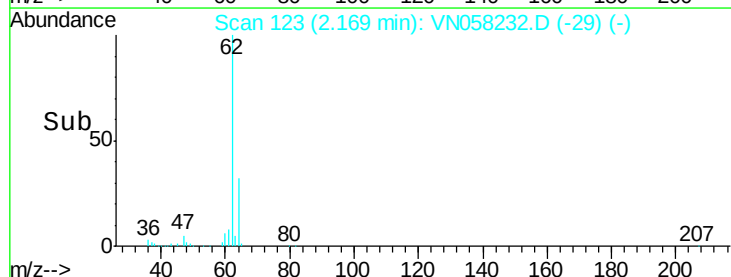
60000

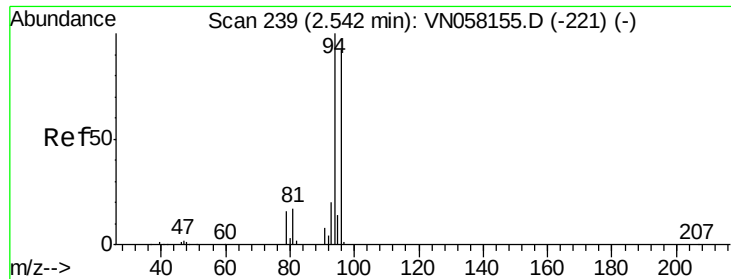
40000

20000

0

Time--> 2.10 2.15 2.20 2.25





#5

Bromomethane

Concen: 48.815 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 86295

Ion Ratio Lower Upper

94 100

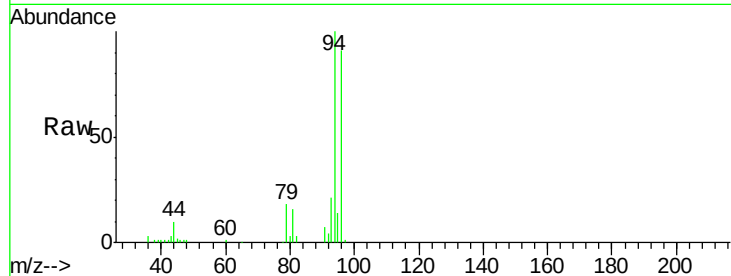
96 91.0 73.3 109.9

Manual Integrations

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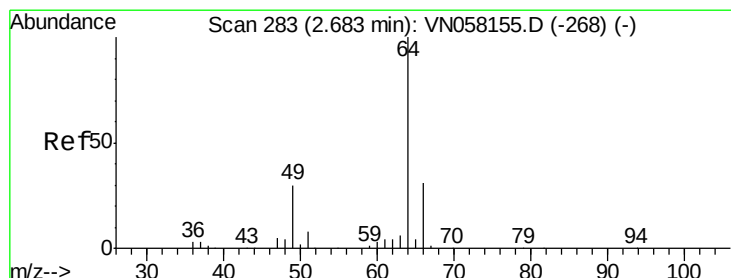
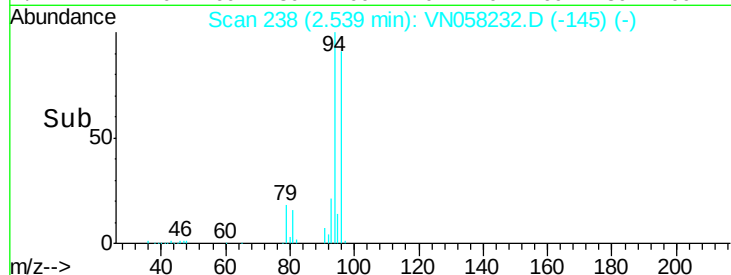


Abundance Ion 93.90 (93.60 to 94.60): VN058155.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN058155.D (-221) (-)

2.54

Time-->



#6

Chloroethane

Concen: 51.454 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN058232.D

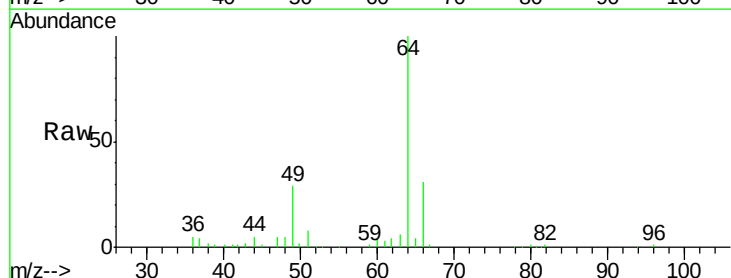
Acq: 20 Sep 2019 1:53

Tgt Ion: 64 Resp: 109998

Ion Ratio Lower Upper

64 100

66 30.8 24.6 37.0

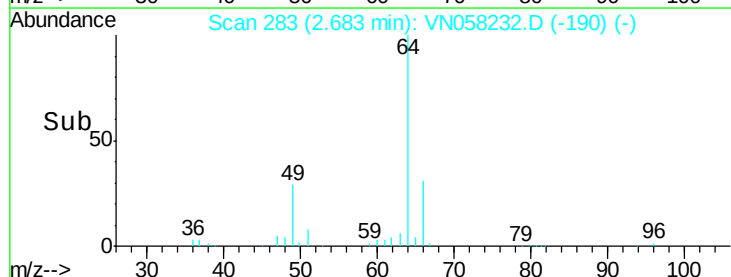


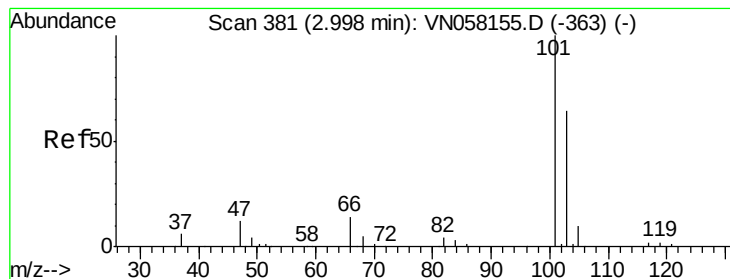
Abundance Ion 63.90 (63.60 to 64.60): VN058155.D (-268) (-)

Ion 65.90 (65.60 to 66.60): VN058155.D (-268) (-)

2.68

Time-->





#7

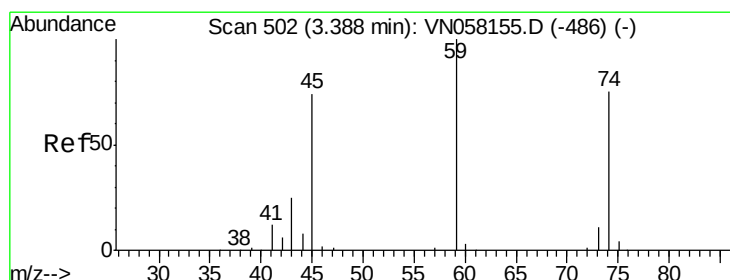
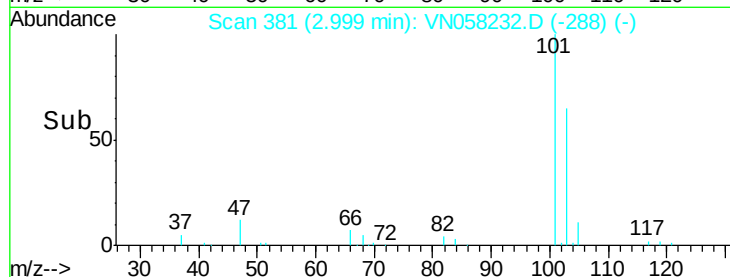
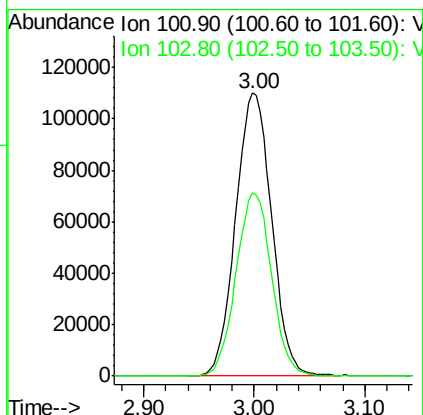
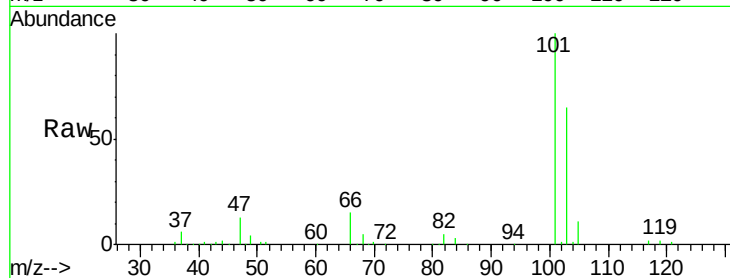
Trichlorofluoromethane
Concen: 46.060 ug/l
RT: 3.00 min Scan# 381
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
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VSTDCCC050EC

Tot Ion	101	Resp	249170
Ion Ratio	Lower	Upper	
101	100		
103	64.7	51.0	76.6

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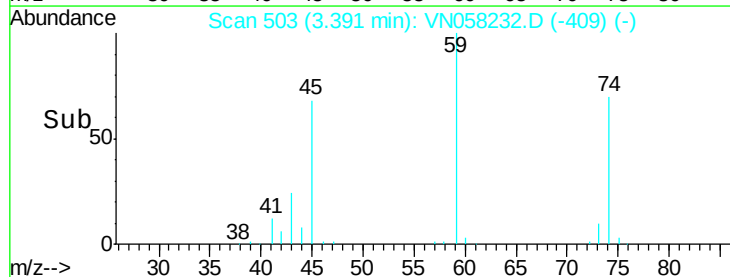
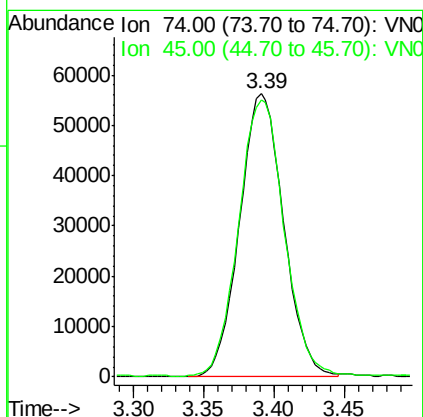
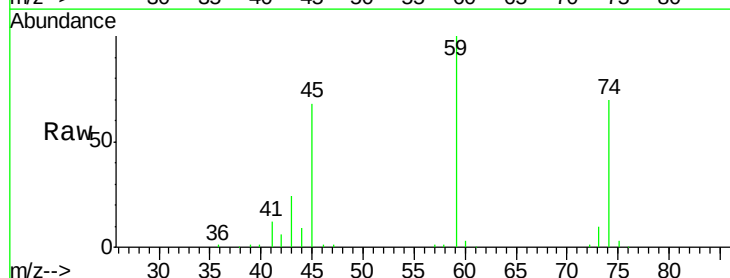
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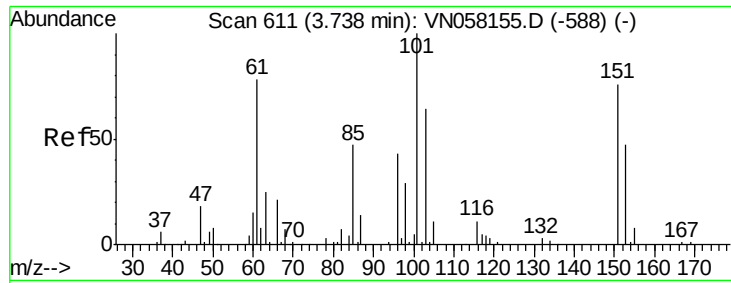


#8

Diethyl Ether
Concen: 49.560 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion	74	Resp	122846
Ion Ratio	Lower	Upper	
74	100		
45	102.1	48.5	145.5





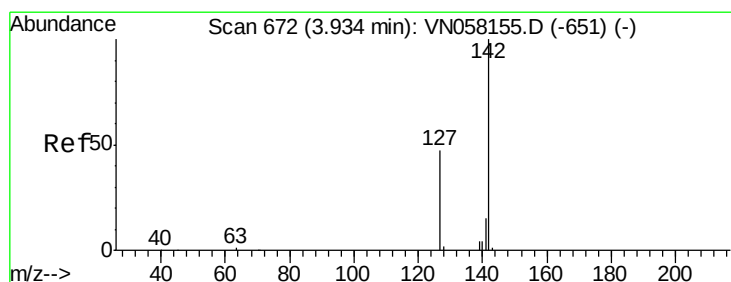
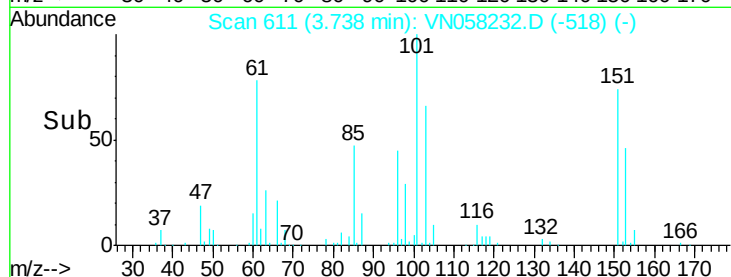
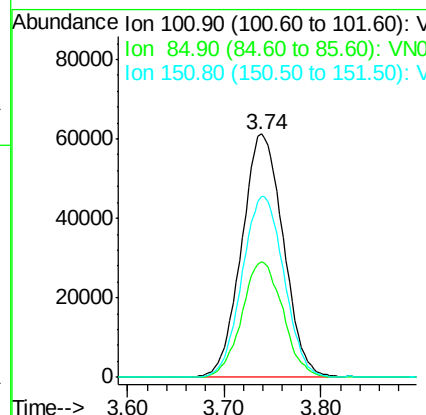
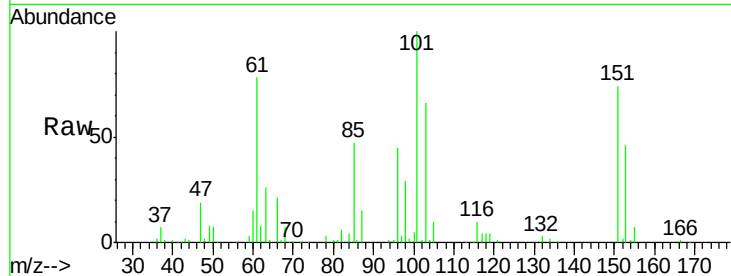
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 47.021 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Instrument :
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 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
101	100	183399		
85	46.8	37.3	55.9	
151	74.7	59.6	89.4	

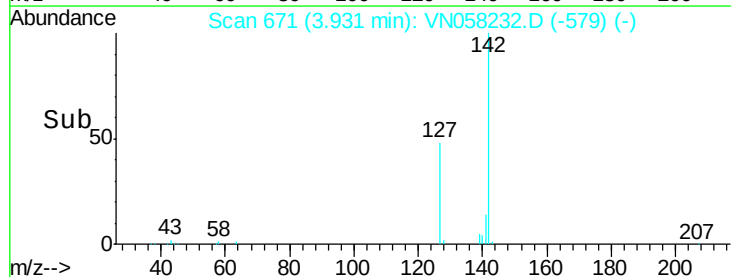
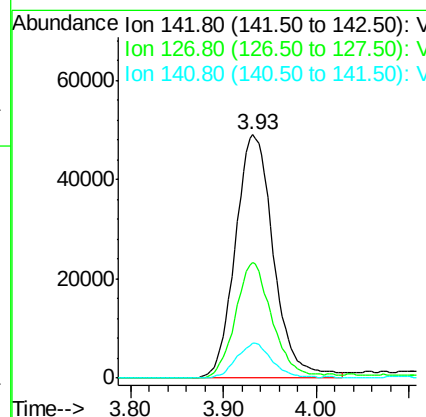
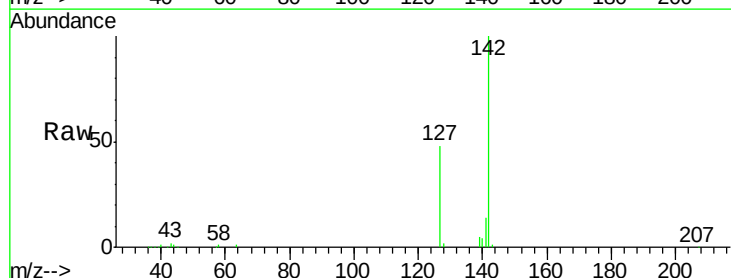
Manual Integrations
 APPROVED

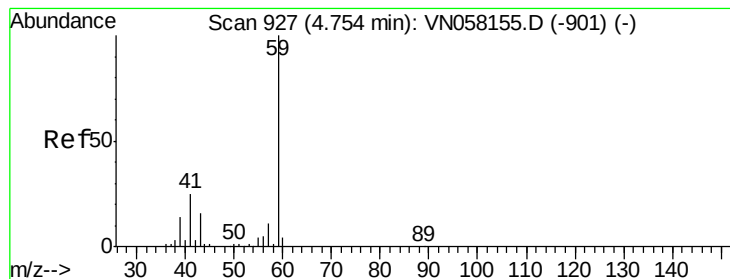
MMDadoda
 9/20/2019 3:37:06 PM



#10
 Methyl Iodide
 Concen: 43.085 ug/l
 RT: 3.93 min Scan# 671
 Delta R.T. -0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	140814		
127	45.6	37.5	56.3	
141	13.4	11.4	17.2	





#11

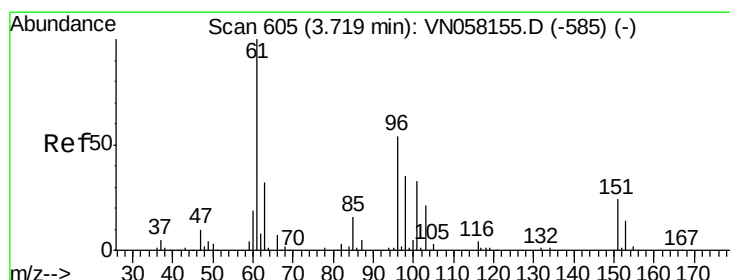
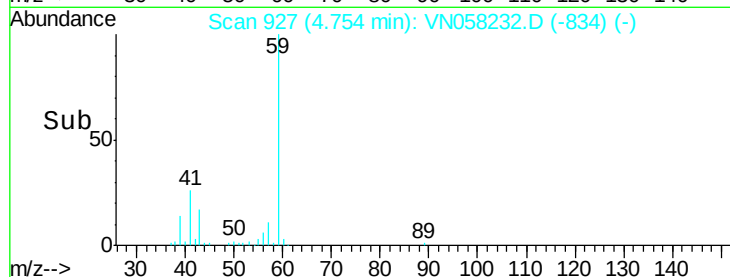
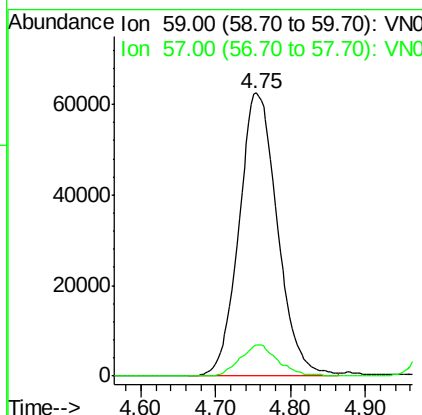
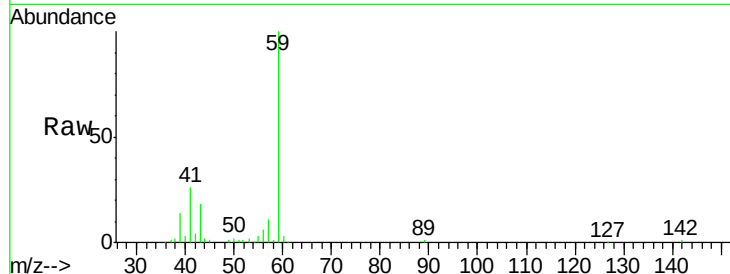
Tert butyl alcohol
 Concen: 279.485 ug/l
 RT: 4.75 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050EC

Tot Ion	59	Resp	223401
Ion Ratio	100	Lower	Upper
57	10.8	8.6	13.0

Manual Integrations
 APPROVED

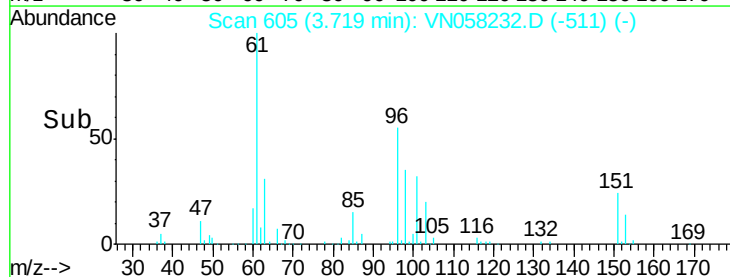
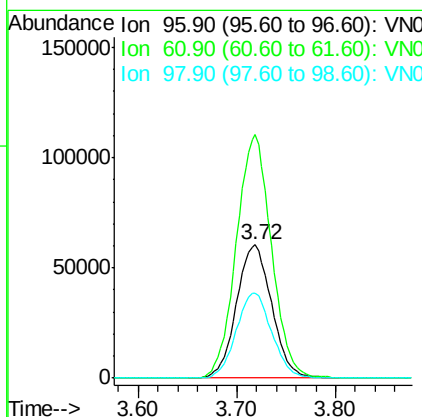
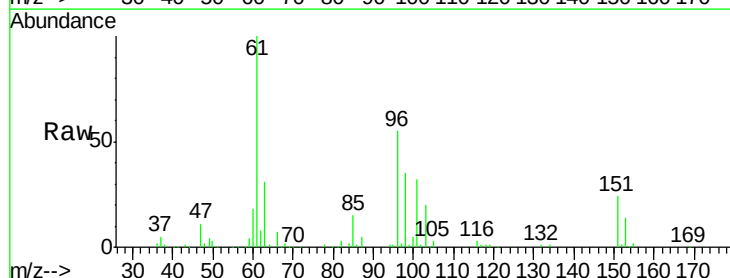
MMDadoda
 9/20/2019 3:37:06 PM

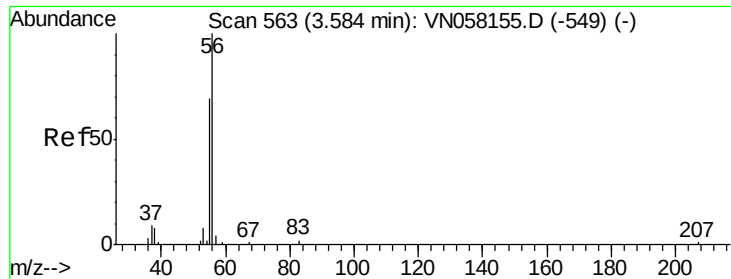


#12

1,1-Dichloroethene
 Concen: 50.559 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Tgt Ion	96	Resp	149641
Ion Ratio	100	Lower	Upper
61	183.1	149.5	224.3
98	64.0	52.4	78.6





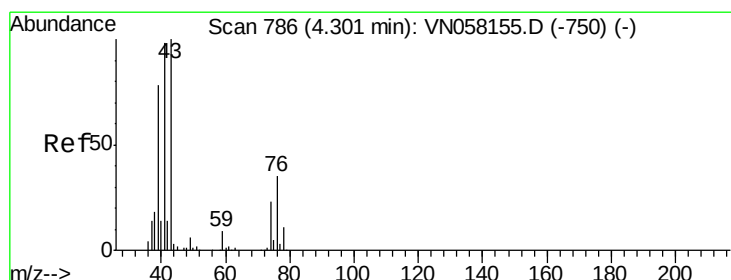
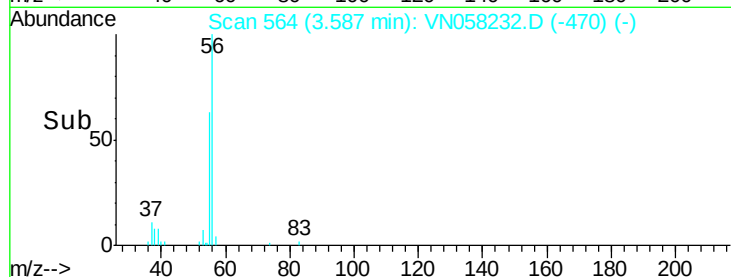
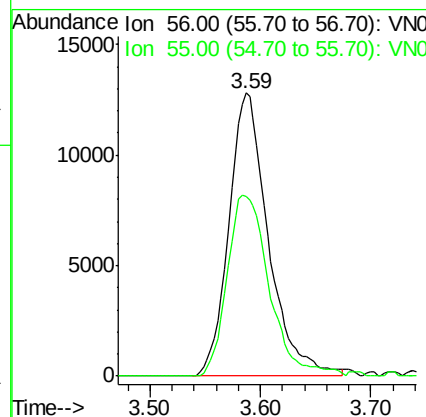
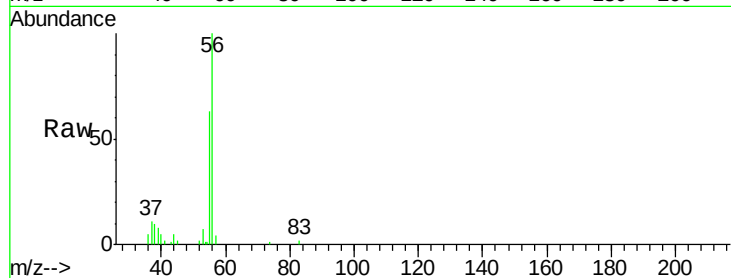
#13
Acrolein
Concen: 268.391 ug/l
RT: 3.59 min Scan# 564
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	56	Resp	31793
Ion Ratio	Lower	Upper	
56	100		
55	67.4	56.1	84.1

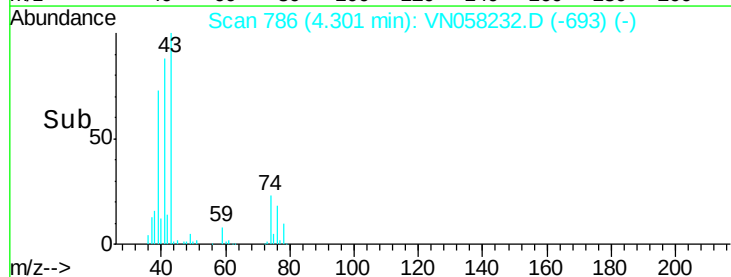
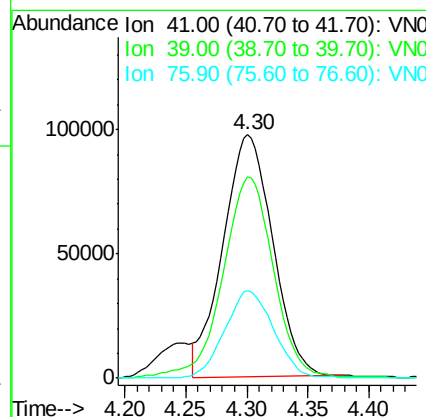
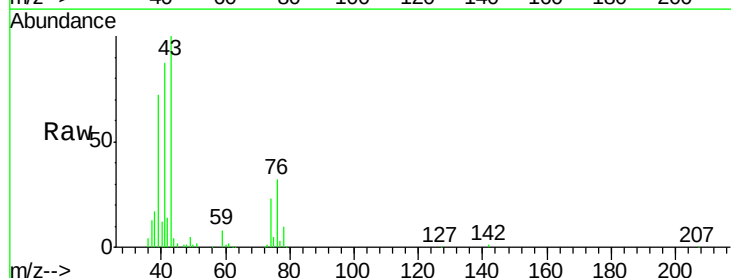
Manual Integrations
APPROVED

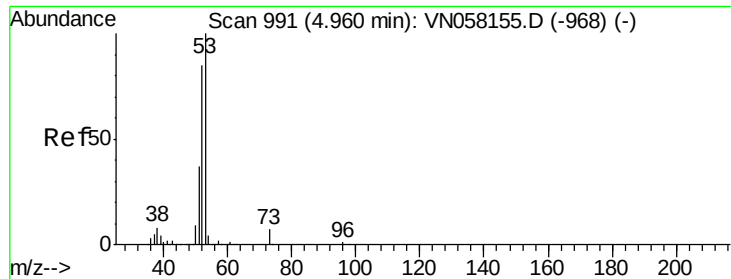
MMDadoda
9/20/2019 3:37:06 PM



#14
Allyl chloride
Concen: 43.299 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion	41	Resp	276343
Ion Ratio	Lower	Upper	
41	100		
39	84.8	59.1	88.7
76	35.6	25.1	37.7





#15

Acrylonitrile

Concen: 274.464 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

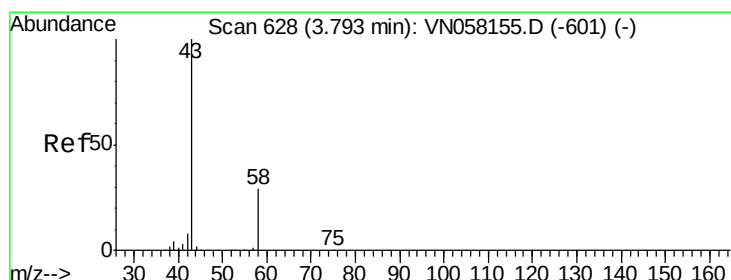
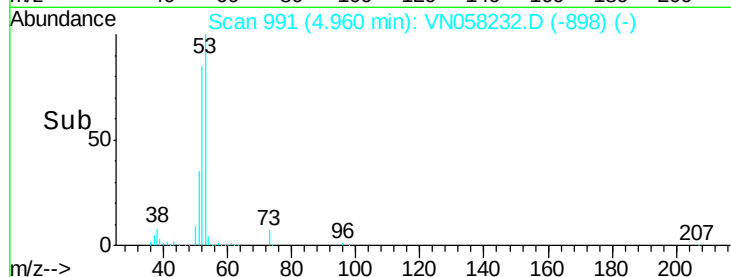
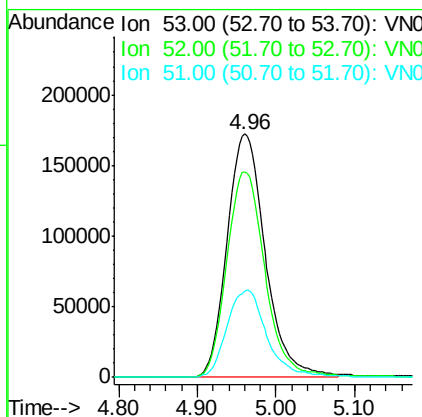
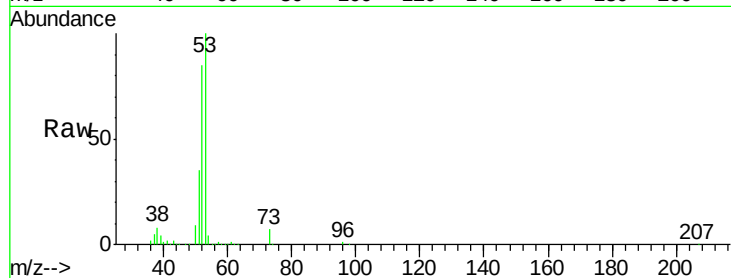
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	584510
Ion Ratio		Lower	Upper
53	100		
52	84.1	66.6	100.0
51	37.3	29.7	44.5

Manual Integrations
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#16

Acetone

Concen: 218.106 ug/l

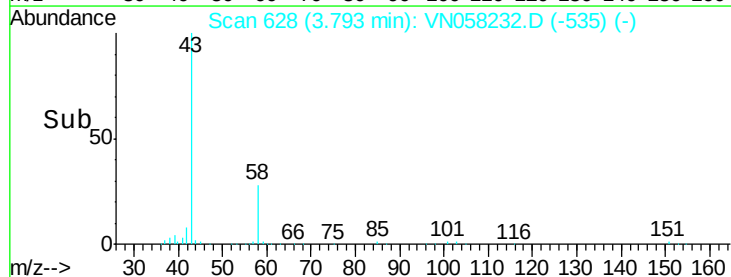
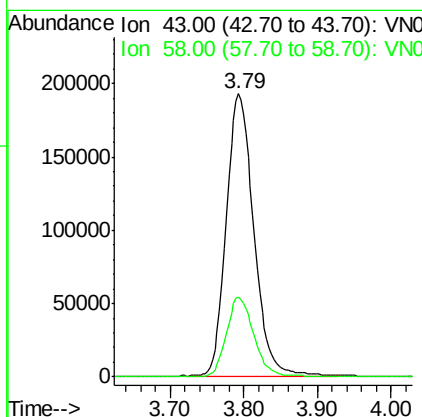
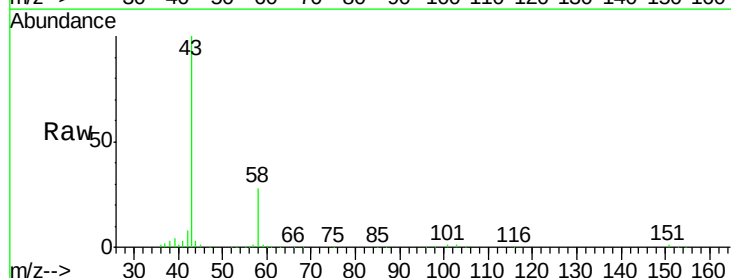
RT: 3.79 min Scan# 628

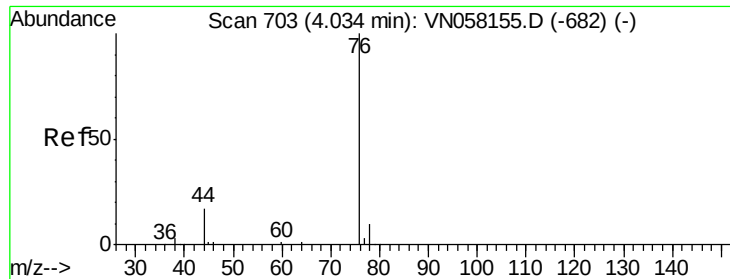
Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Tgt Ion:	43	Resp:	497489
Ion Ratio		Lower	Upper
43	100		
58	28.0	23.4	35.2





#17

Carbon Disulfide

Concen: 47.079 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 196082

Ion Ratio Lower Upper

76 100

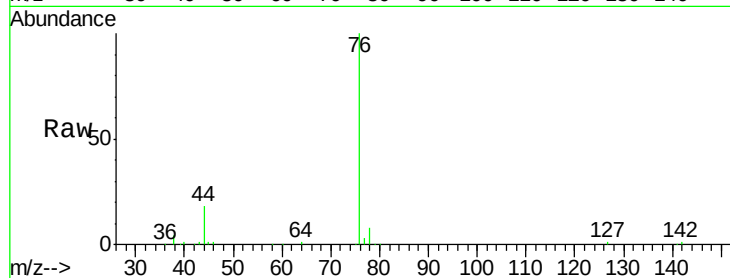
78 8.5 7.7 11.5

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN058232.D (-609) (-)

Ion 77.90 (77.60 to 78.60): VN058232.D (-609) (-)

4.03

80000

60000

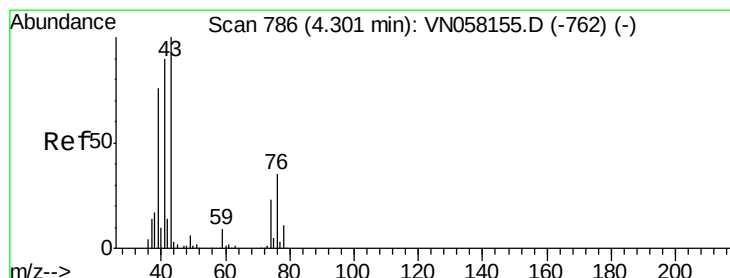
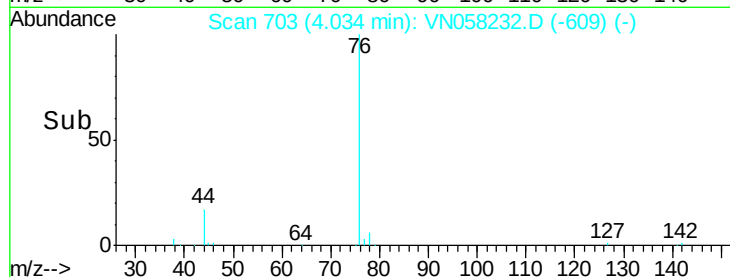
40000

20000

0

Time-->

3.90 4.00 4.10 4.20



#18

Methyl Acetate

Concen: 52.733 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN058232.D

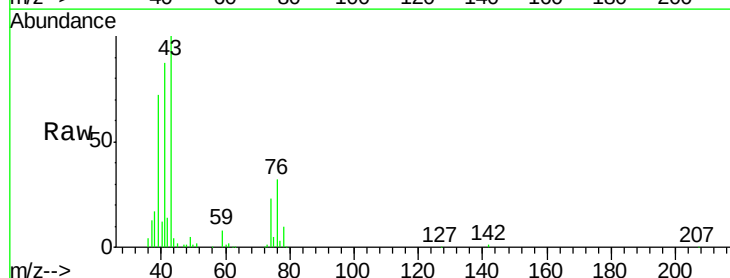
Acq: 20 Sep 2019 1:53

Tgt Ion: 43 Resp: 316500

Ion Ratio Lower Upper

43 100

74 22.6 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VN058232.D (-693) (-)

Ion 74.00 (73.70 to 74.70): VN058232.D (-693) (-)

4.30

120000

100000

80000

60000

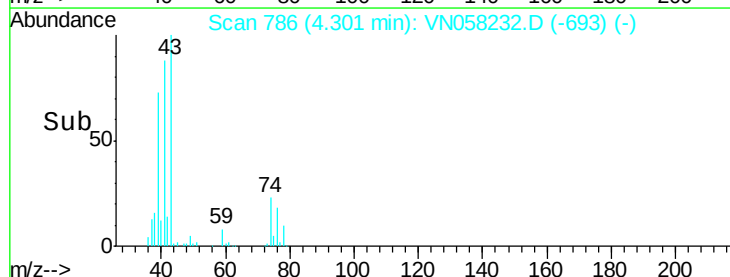
40000

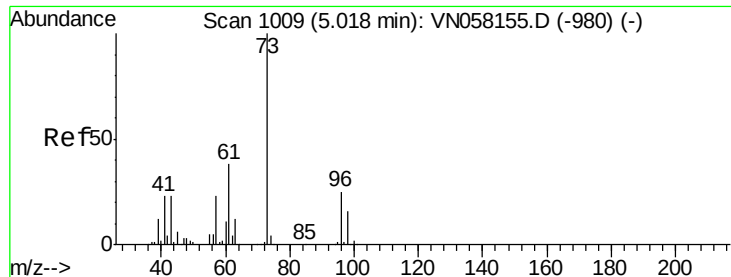
20000

0

Time-->

4.20 4.30 4.40





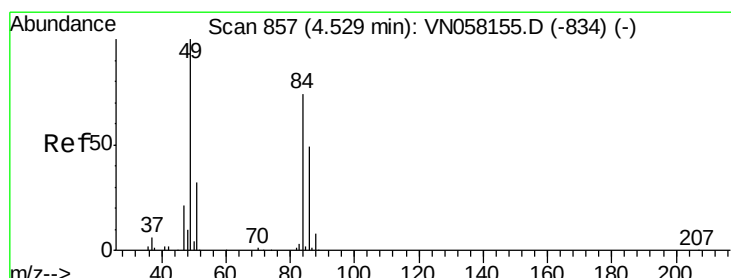
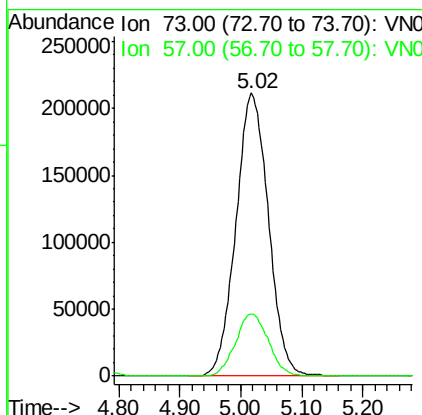
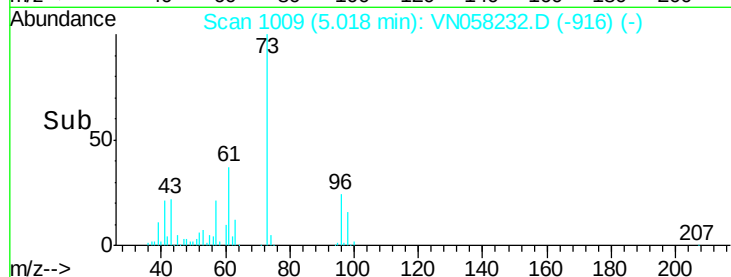
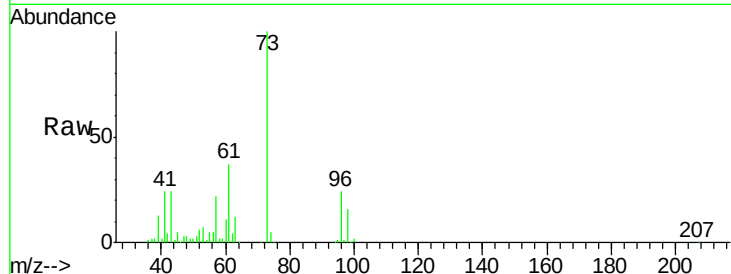
#19
Methvl tert-butvl Ether
Concen: 53.230 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 783070
Ion Ratio Lower Upper
73 100
57 22.0 18.1 27.1

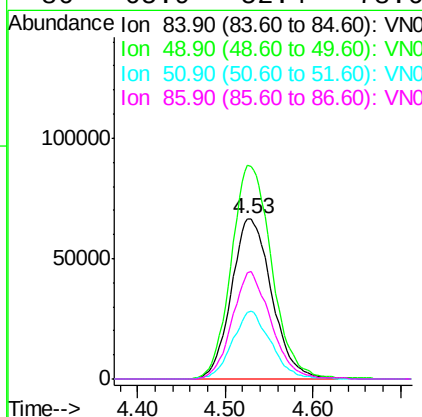
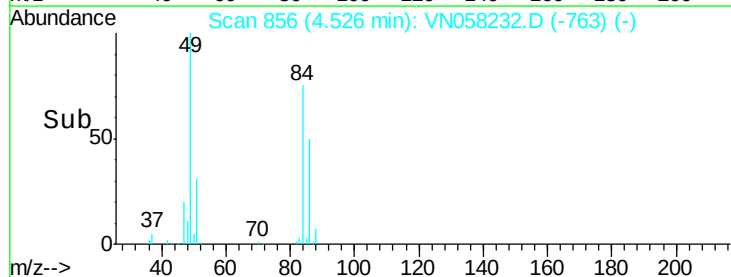
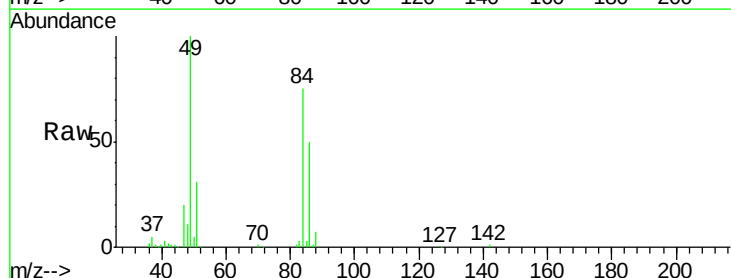
Manual Integrations
APPROVED

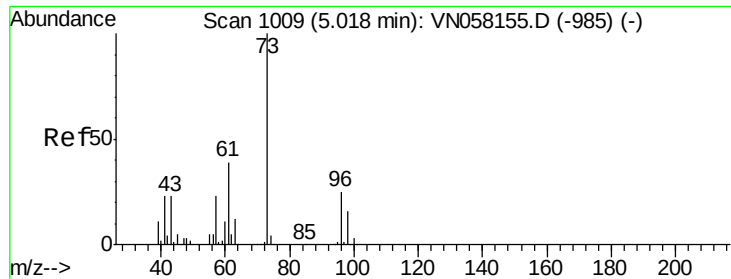
MMDadoda
9/20/2019 3:37:06 PM



#20
Methylene Chloride
Concen: 53.423 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion: 84 Resp: 213283
Ion Ratio Lower Upper
84 100
49 133.0 107.5 161.3
51 41.3 33.9 50.9
86 65.9 52.4 78.6





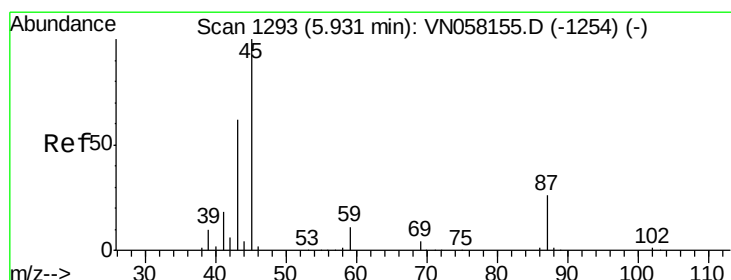
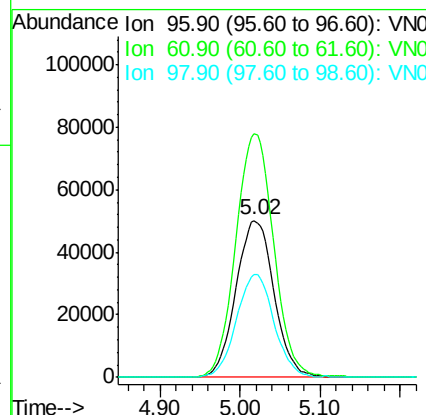
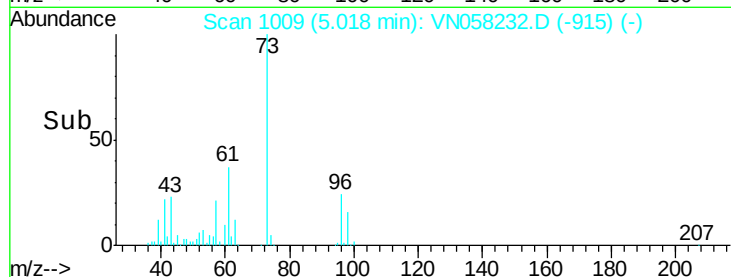
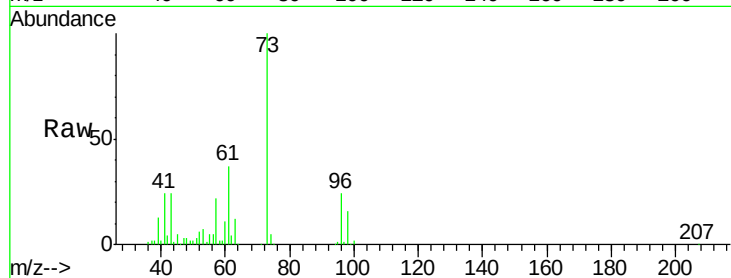
#21
trans-1,2-Dichloroethene
Concen: 50.251 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	155.5	122.2	183.4
98	66.0	49.9	74.9

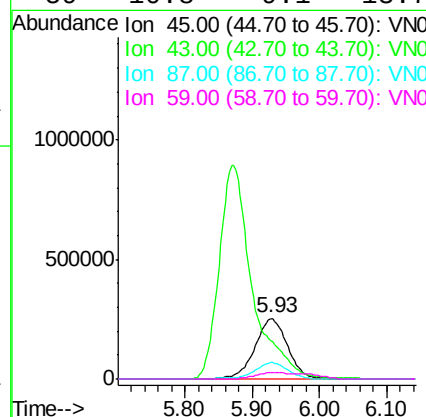
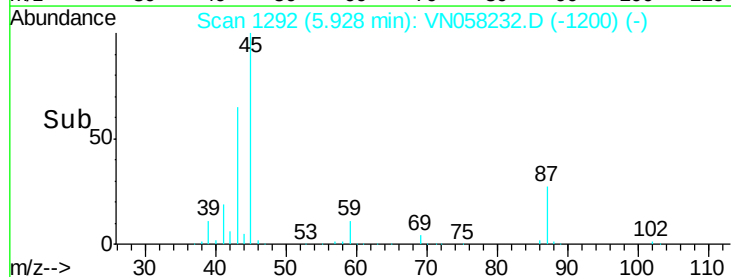
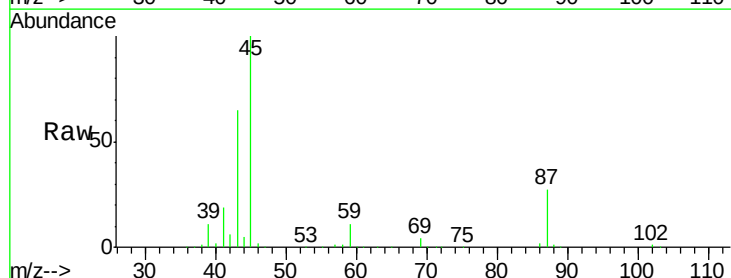
Manual Integrations
APPROVED

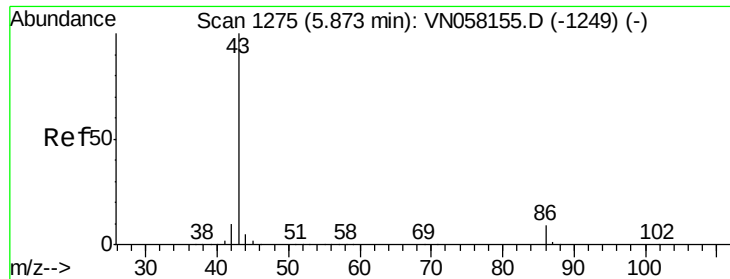
MMDadoda
9/20/2019 3:37:06 PM



#22
Diisopropyl ether
Concen: 52.451 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. -0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.0	49.7	74.5
87	26.6	20.7	31.1
59	10.8	9.1	13.7





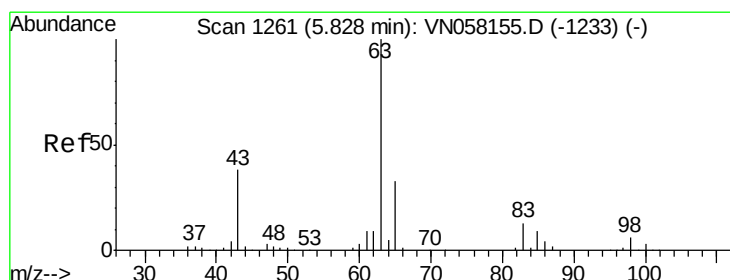
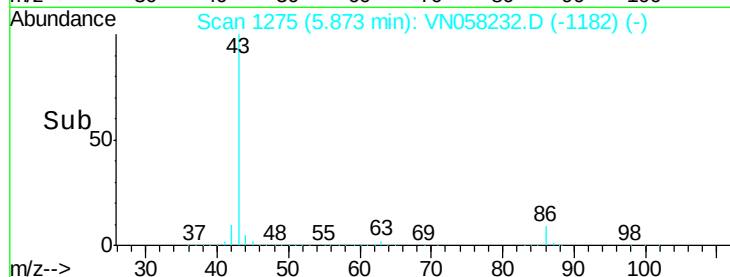
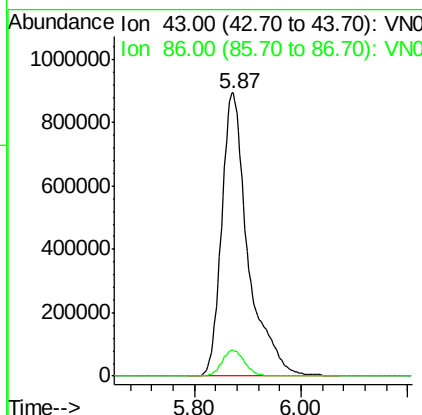
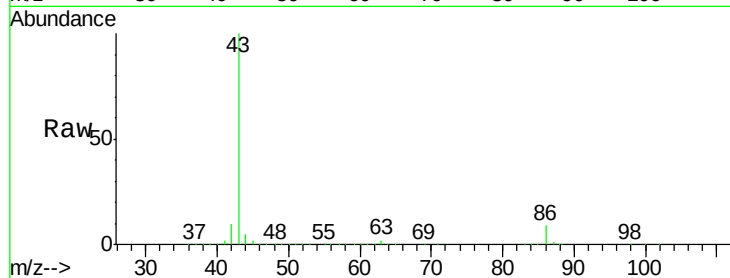
#23
 Vinyl Acetate
 Concen: 276.914 ug/l
 RT: 5.87 min Scan# 1275
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 43 Resp: 3071910
 Ion Ratio Lower Upper
 43 100
 86 9.1 7.4 11.2

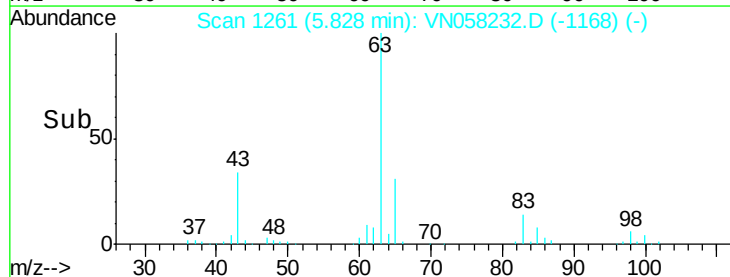
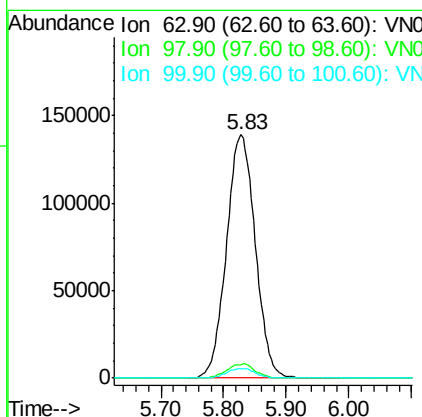
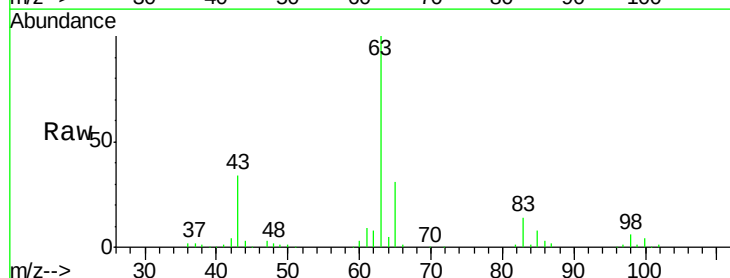
Manual Integrations
 APPROVED

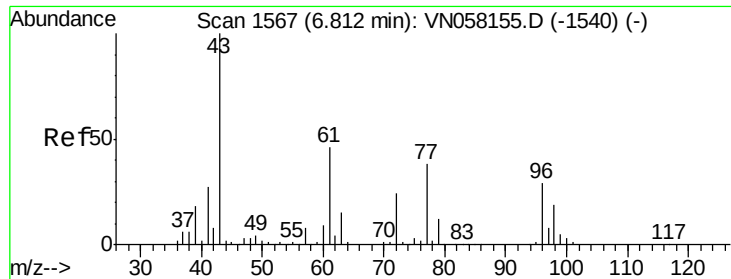
MMDadoda
 9/20/2019 3:37:06 PM



#24
 1,1-Dichloroethane
 Concen: 51.151 ug/l
 RT: 5.83 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Tgt Ion: 63 Resp: 442596
 Ion Ratio Lower Upper
 63 100
 98 5.7 2.9 8.6
 100 4.0 1.8 5.3





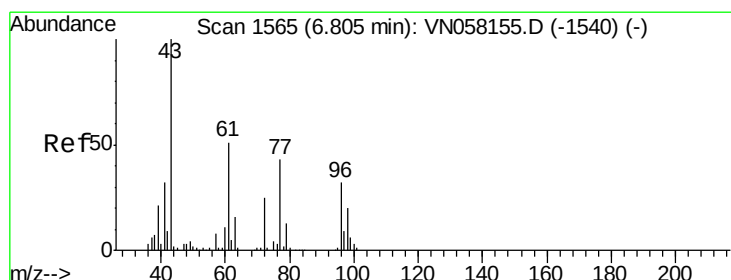
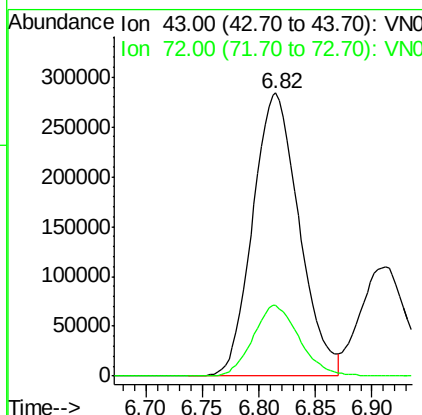
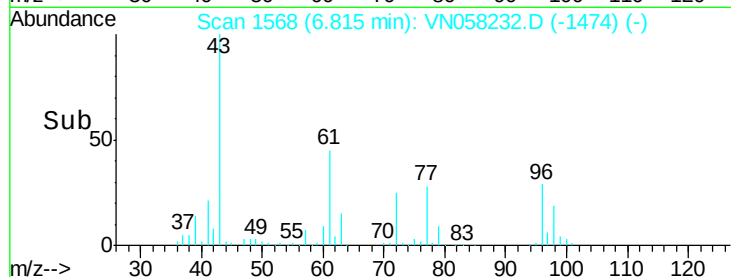
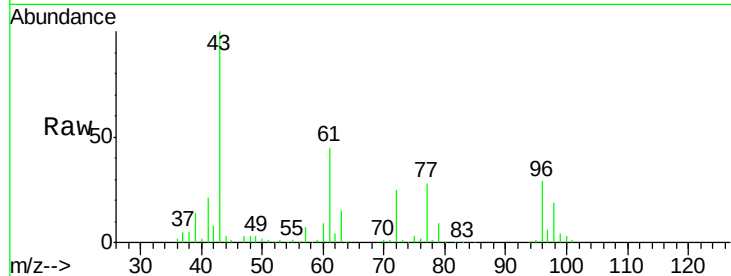
#25
2-Butanone
Concen: 259.515 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
72	24.9	19.5	29.3

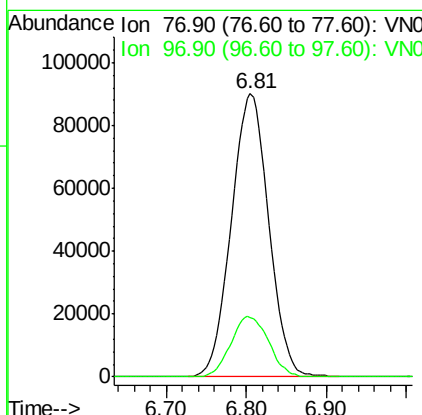
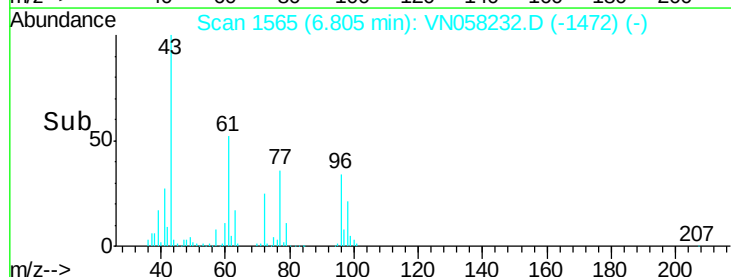
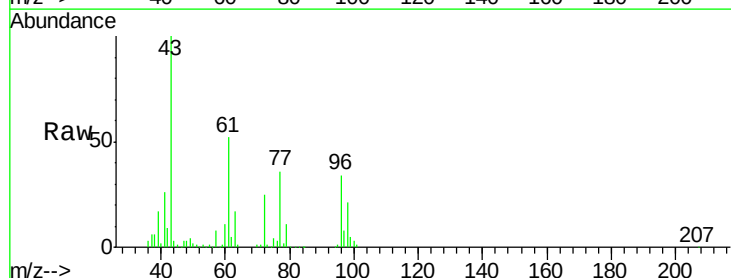
Manual Integrations
APPROVED

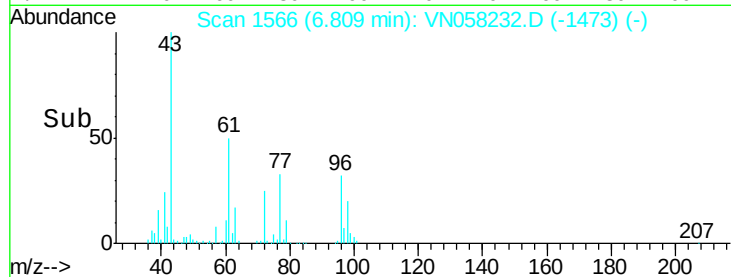
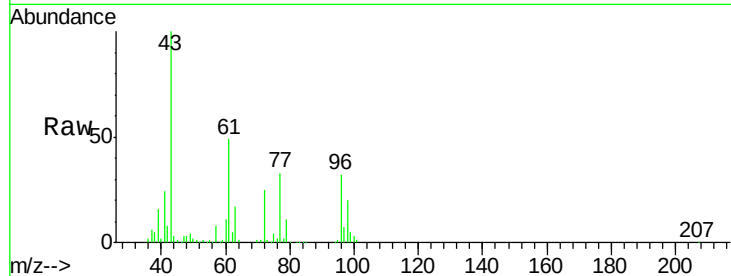
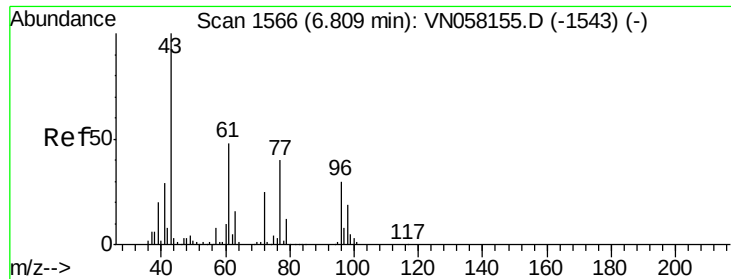
MMDadoda
9/20/2019 3:37:06 PM



#26
2,2-Dichloropropane
Concen: 38.839 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.5	31.6





#27

cis-1,2-Dichloroethene

Concen: 50.537 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058232.D

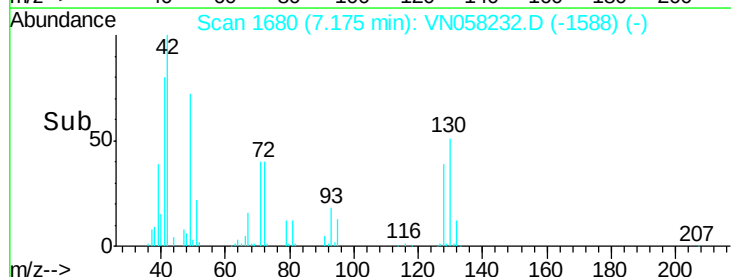
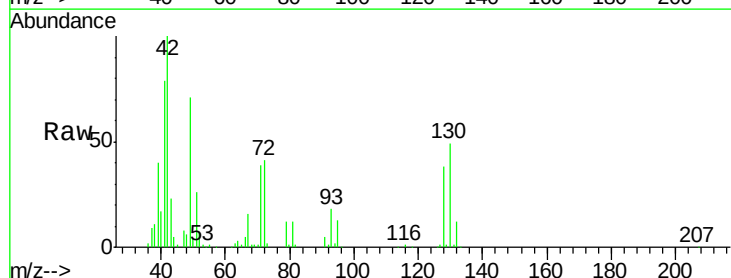
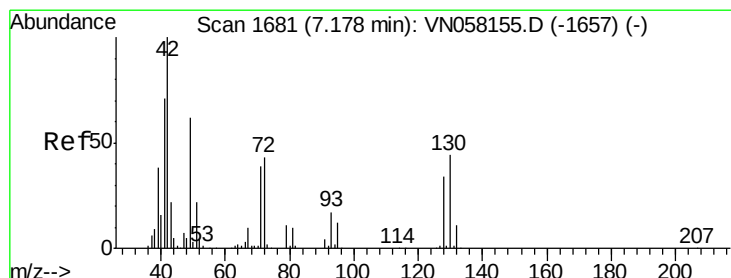
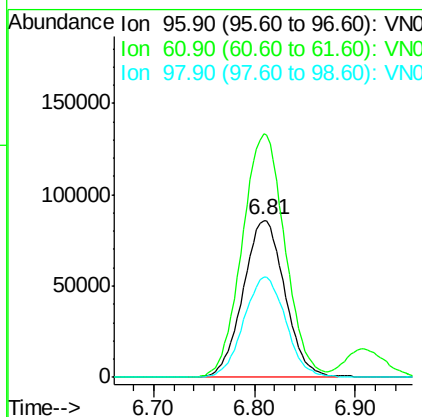
Acq: 20 Sep 2019 1:53

Tot Ion	Ratio	Resp	Lower	Upper
96	100	247254		
61	158.5	0.0	319.0	
98	64.4	0.0	126.6	

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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9/20/2019 3:37:06 PM



#28

Bromochloromethane

Concen: 53.991 ug/l

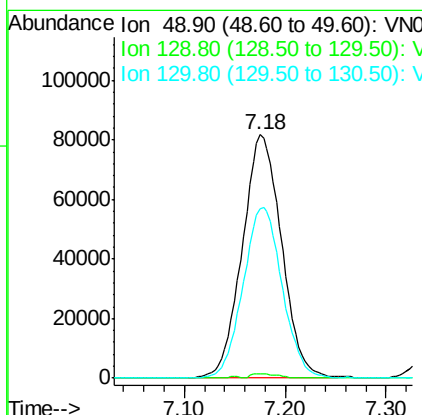
RT: 7.18 min Scan# 1680

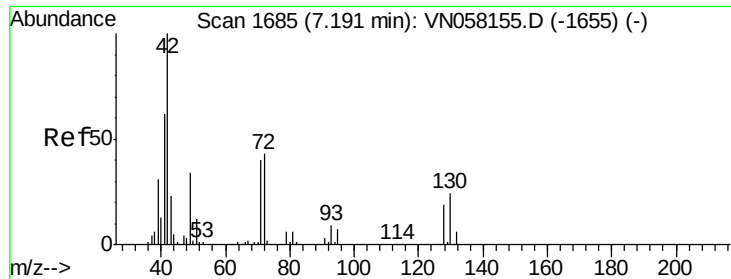
Delta R.T. -0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	221003		
129	1.2	0.0	1.8	
130	69.6	55.4	83.2	





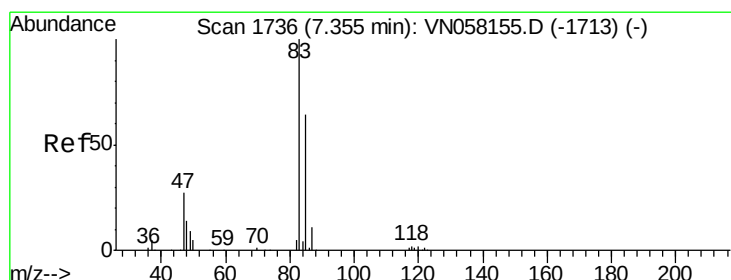
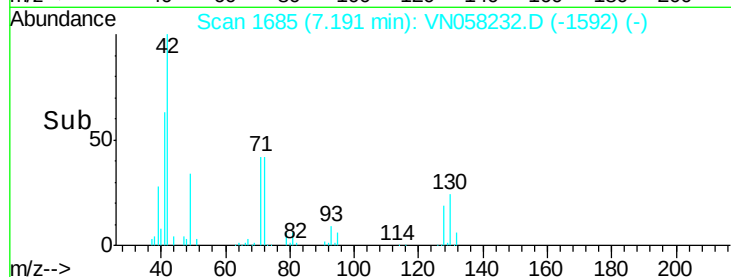
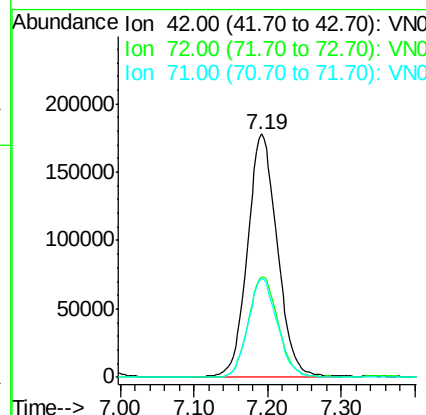
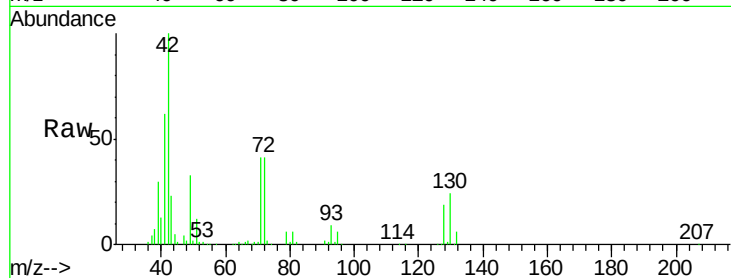
#29
Tetrahydrofuran
Concen: 261.332 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	33.8	50.6
71	40.0	31.4	47.0

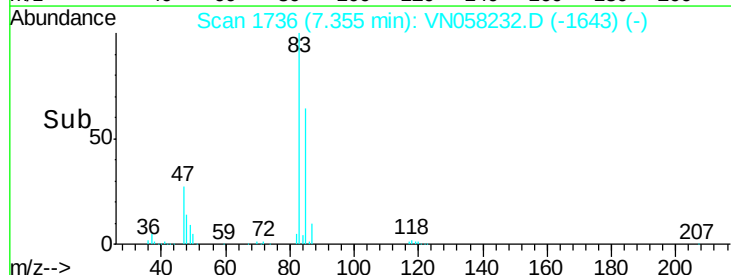
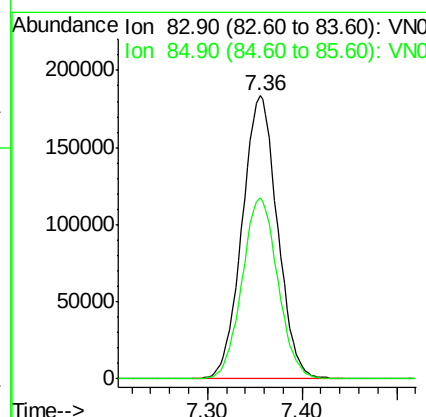
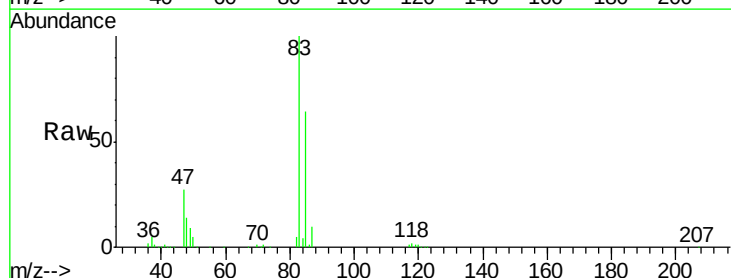
Manual Integrations
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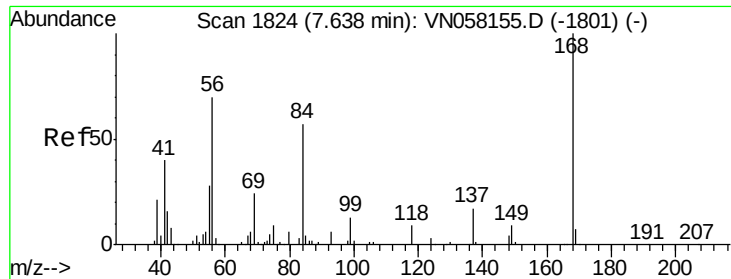
MMDadoda
9/20/2019 3:37:06 PM



#30
Chloroform
Concen: 51.046 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.4	77.2





#31

Cyclohexane

Concen: 49.463 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 276799

Ion Ratio Lower Upper

56 100

69 34.4 27.3 40.9

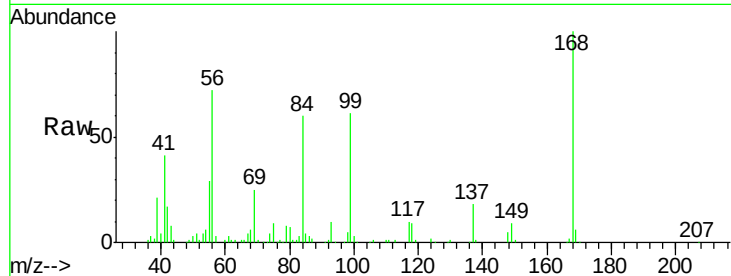
84 80.8 65.0 97.4

Manual Integrations

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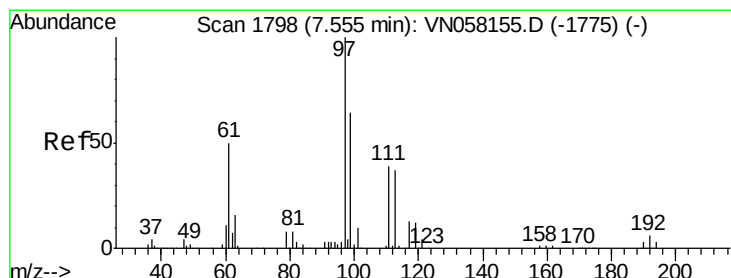
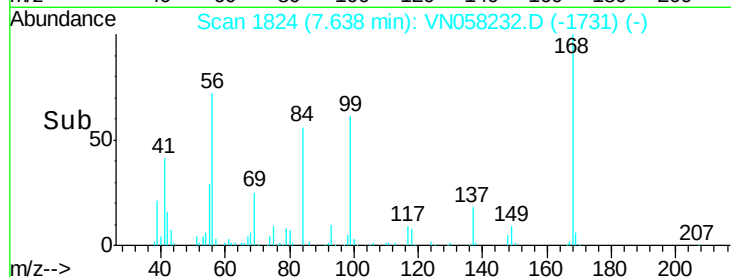
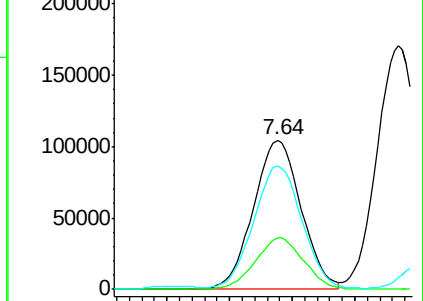
9/20/2019 3:37:06 PM



Abundance Ion 56.00 (55.70 to 56.70): VN058232.D (-1731) (-)

Ion 69.00 (68.70 to 69.70): VN058232.D (-1731) (-)

Ion 84.00 (83.70 to 84.70): VN058232.D (-1731) (-)



#32

1,1,1-Trichloroethane

Concen: 52.283 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

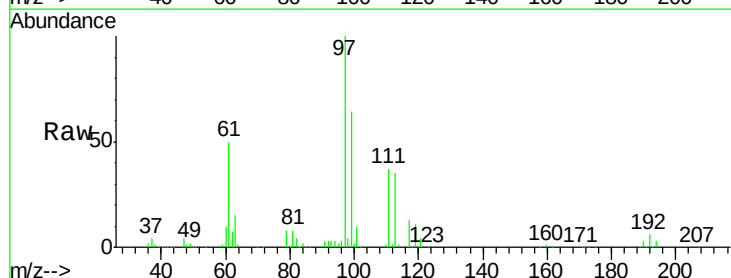
Tgt Ion: 97 Resp: 370710

Ion Ratio Lower Upper

97 100

99 63.1 50.9 76.3

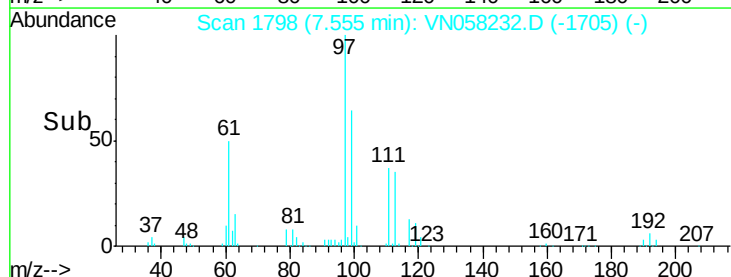
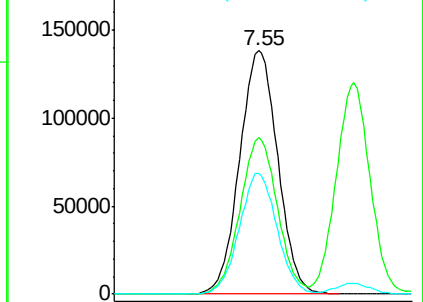
61 48.9 39.2 58.8

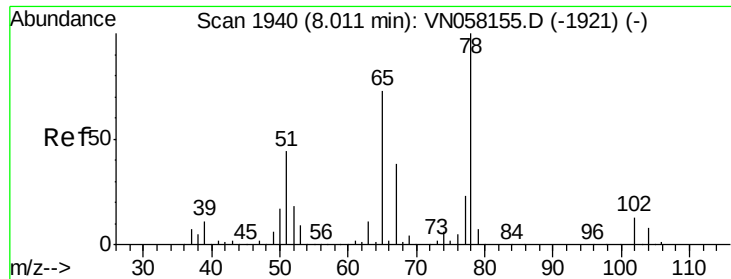


Abundance Ion 96.90 (96.60 to 97.60): VN058232.D (-1705) (-)

Ion 98.90 (98.60 to 99.60): VN058232.D (-1705) (-)

Ion 60.90 (60.60 to 61.60): VN058232.D (-1705) (-)





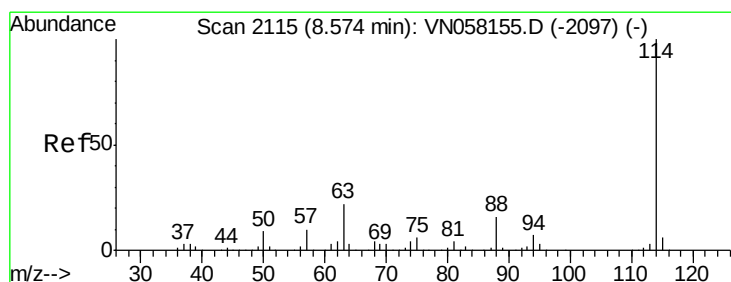
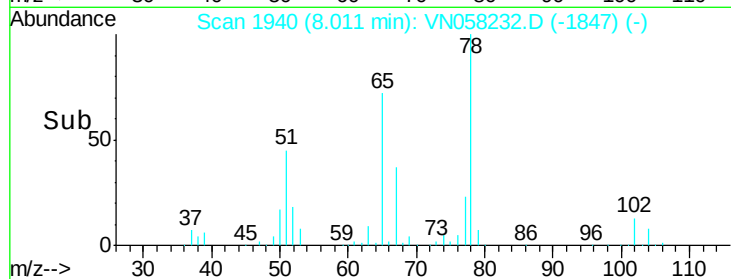
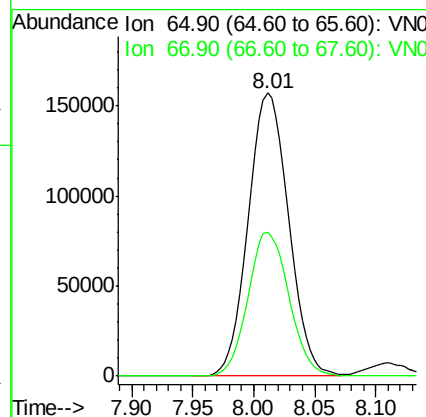
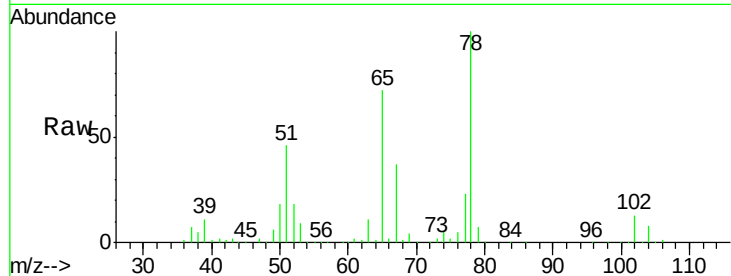
#33
 1,2-Dichloroethane-d4
 Concen: 53.624 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	360342		
67	51.6	0.0	103.4	

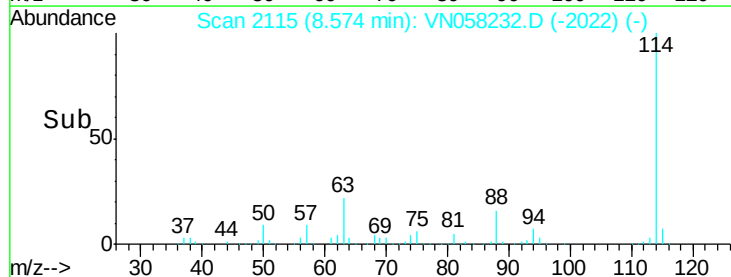
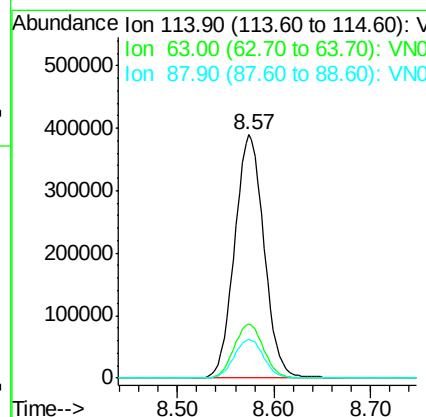
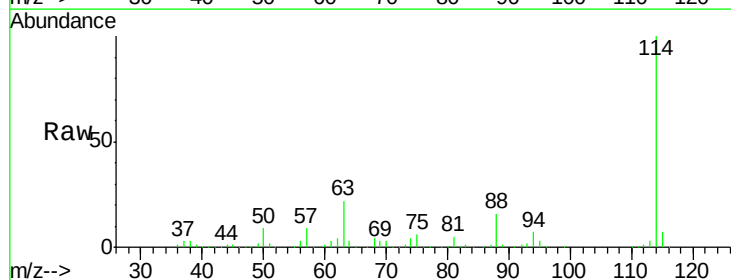
Manual Integrations
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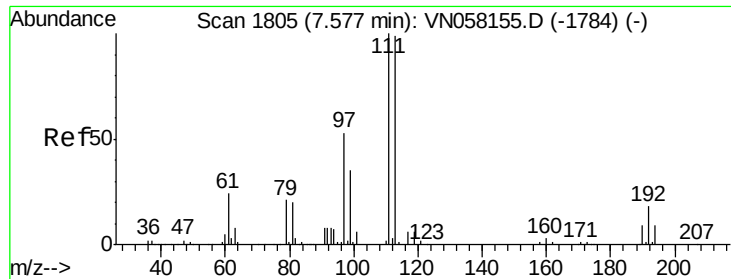
MMDadoda
 9/20/2019 3:37:06 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	823210		
63	22.2	0.0	44.2	
88	15.8	0.0	31.6	





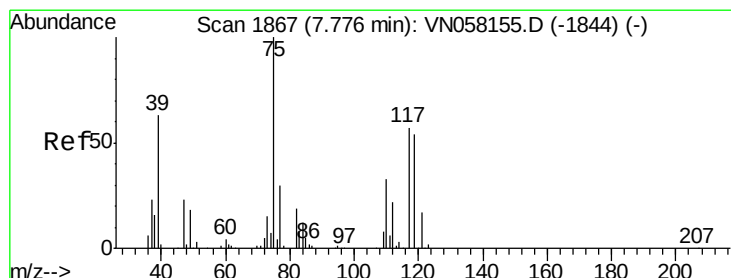
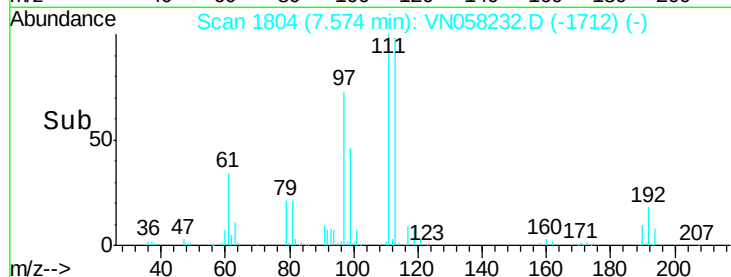
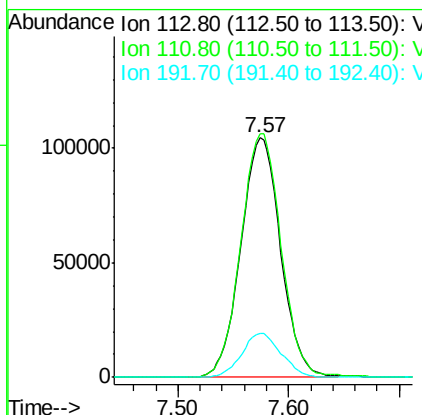
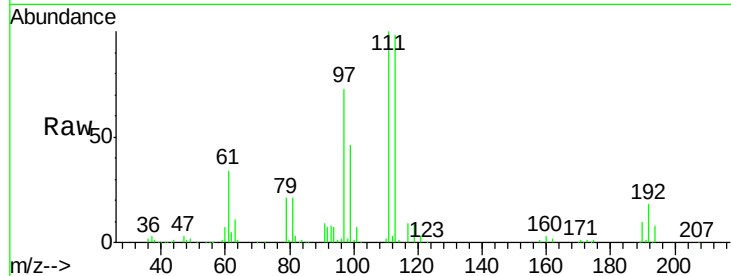
#35
Dibromofluoromethane
Concen: 52.283 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	261645		
111	103.4	81.8	122.6	
192	18.2	14.5	21.7	

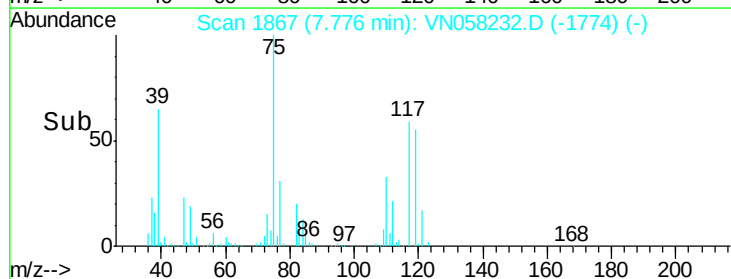
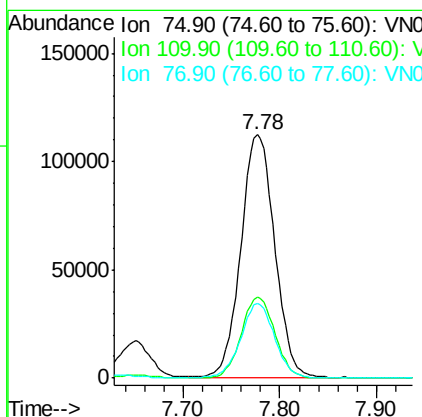
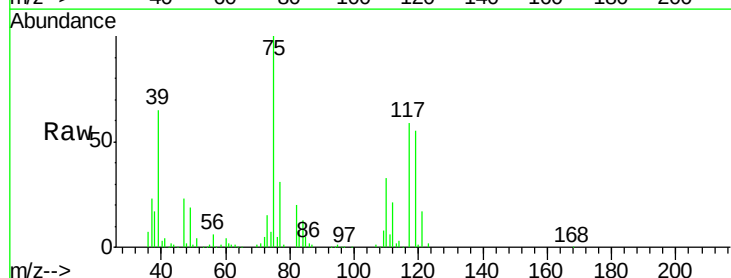
Manual Integrations
APPROVED

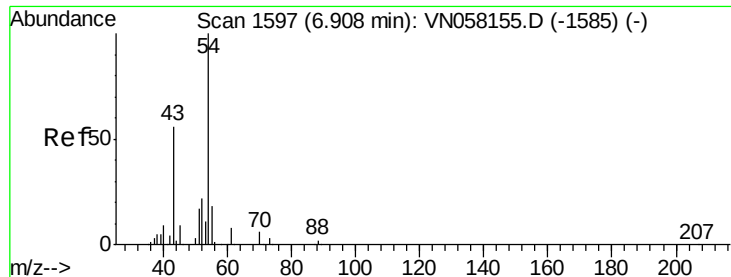
MMDadoda
9/20/2019 3:37:06 PM



#36
1,1-Dichloropropene
Concen: 45.964 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	272869		
110	33.2	16.6	49.7	
77	31.0	24.3	36.5	





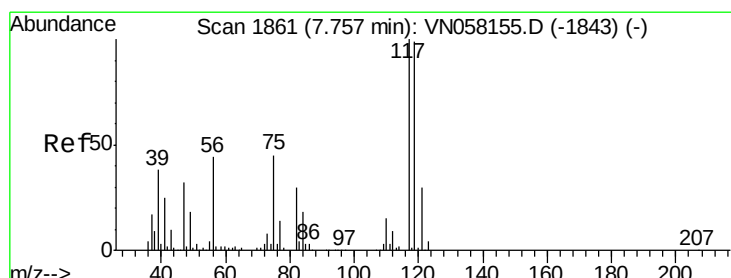
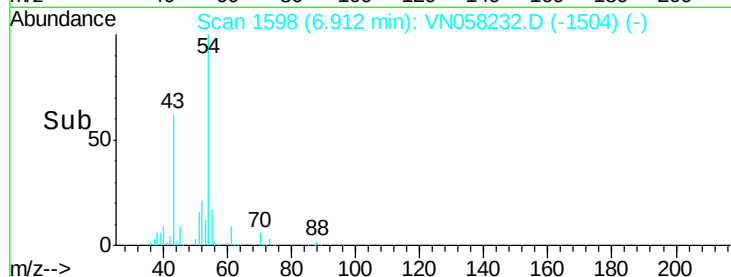
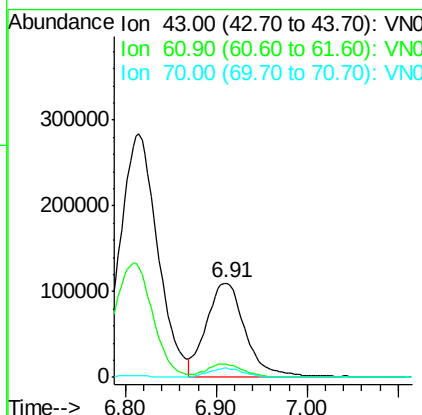
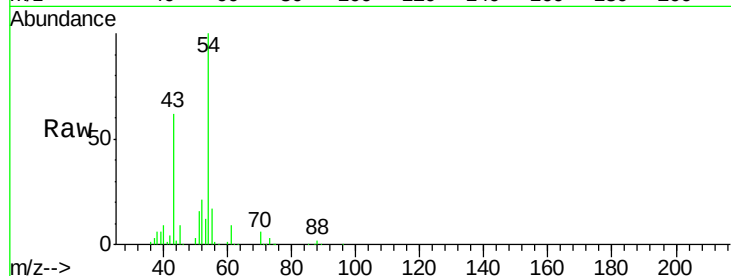
#37
Ethyl Acetate
Concen: 52.002 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	13.5	10.7	16.1	
70	9.2	7.6	11.4	

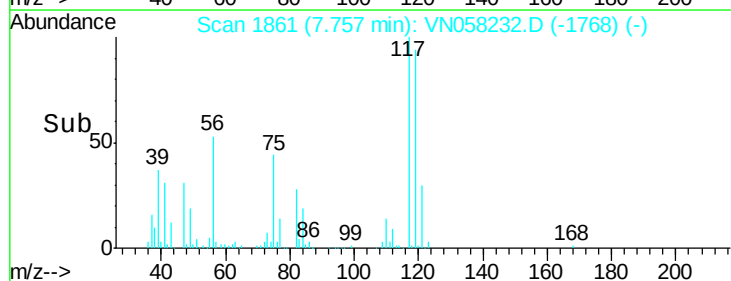
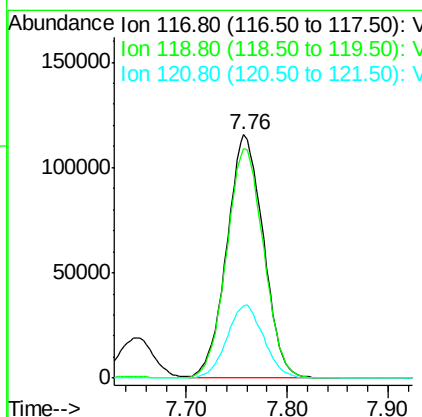
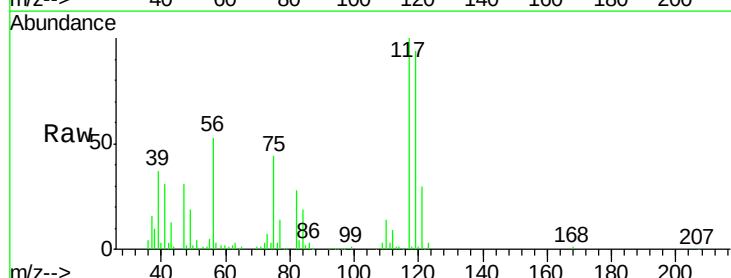
Manual Integrations
APPROVED

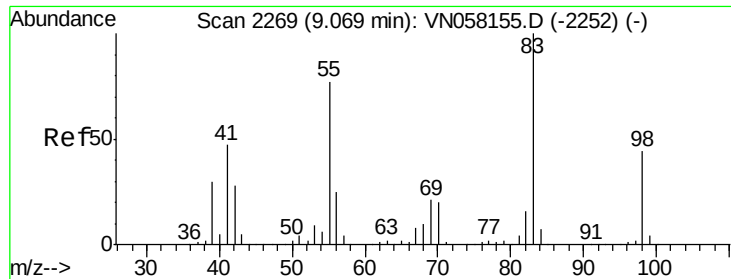
MMDadoda
9/20/2019 3:37:06 PM



#38
Carbon Tetrachloride
Concen: 48.706 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	94.3	78.6	117.8	
121	29.7	24.1	36.1	





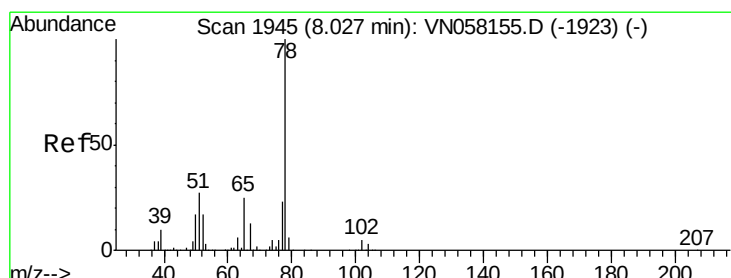
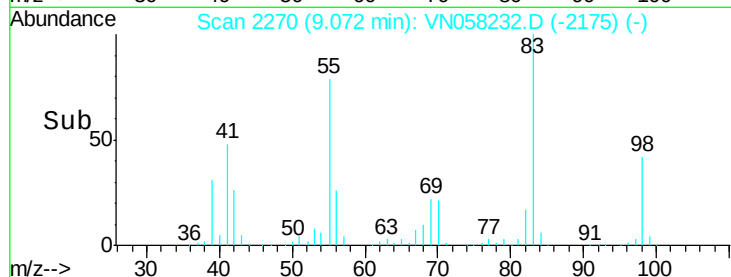
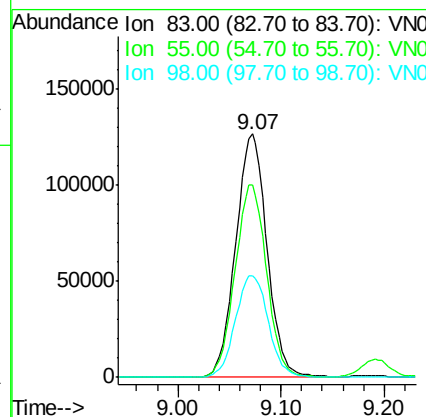
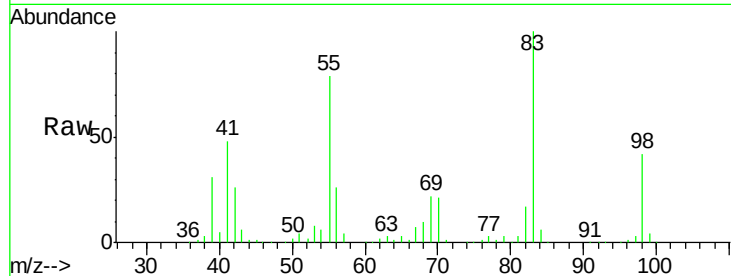
#39
Methylvlcyclohexane
Concen: 46.818 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	83	Resp	268706
Ion Ratio	100	Lower	Upper
83	100		
55	79.0	61.9	92.9
98	41.7	35.4	53.2

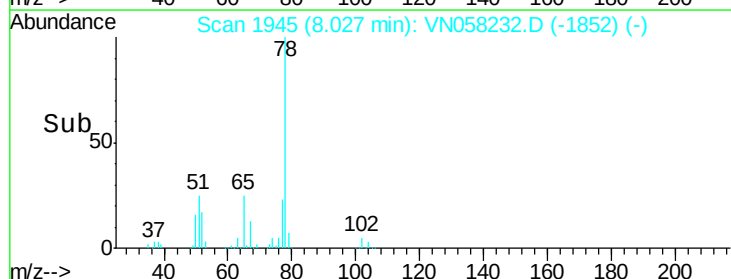
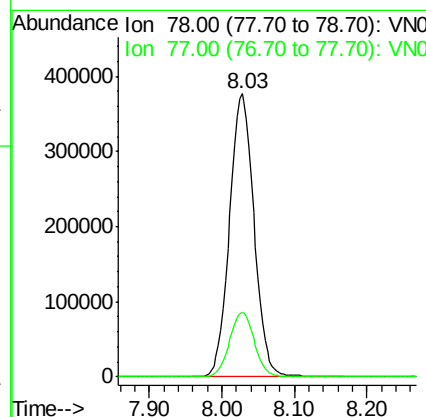
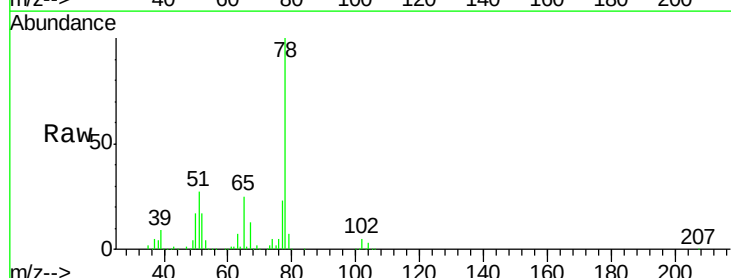
Manual Integrations
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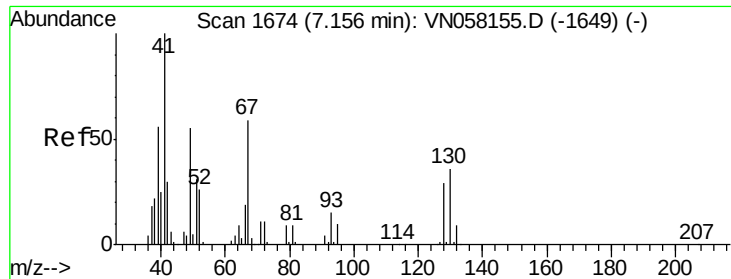
MMDadoda
9/20/2019 3:37:06 PM



#40
Benzene
Concen: 48.834 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion	78	Resp	885468
Ion Ratio	100	Lower	Upper
78	100		
77	23.0	18.8	28.2





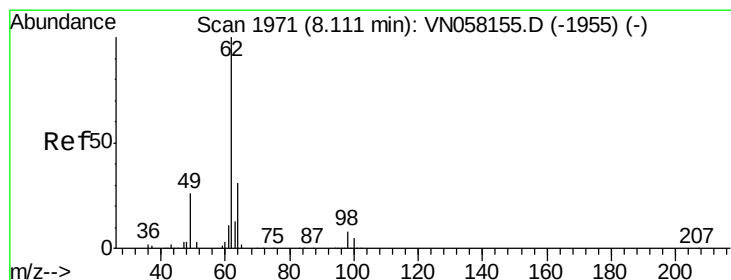
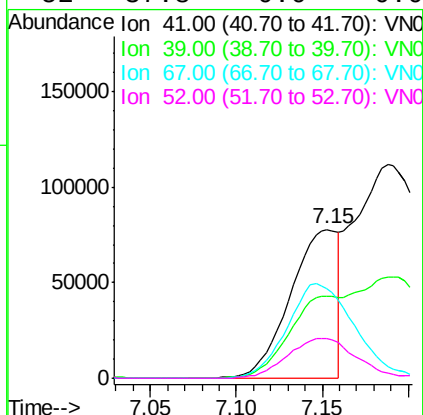
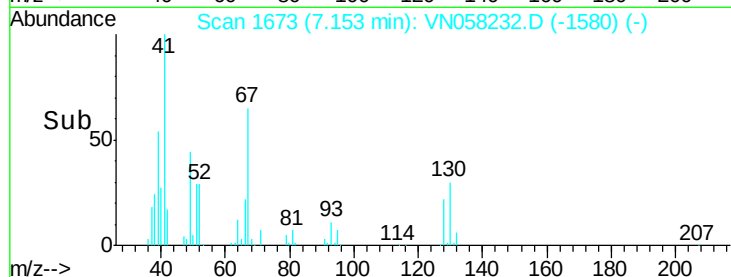
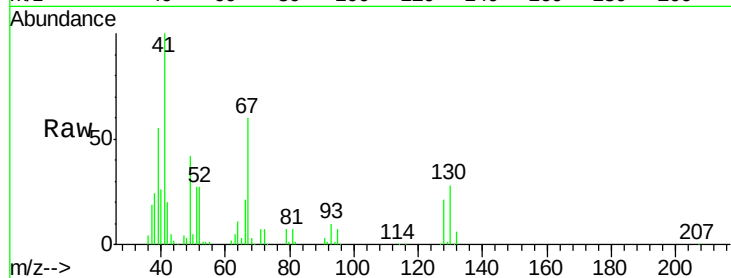
#41
Methacrylonitrile
Concen: 48.474 ug/l
RT: 7.15 min Scan# 1673
Delta R.T. -0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	56.4	0.0	0.0#
67	90.2	0.0	0.0#
52	37.8	0.0	0.0#

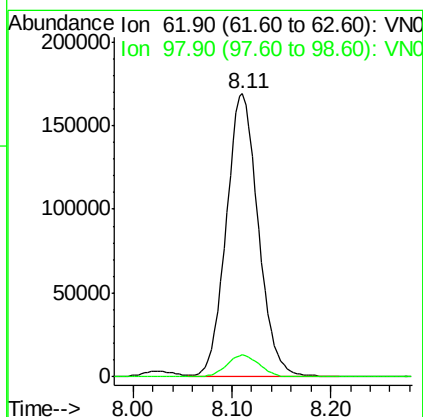
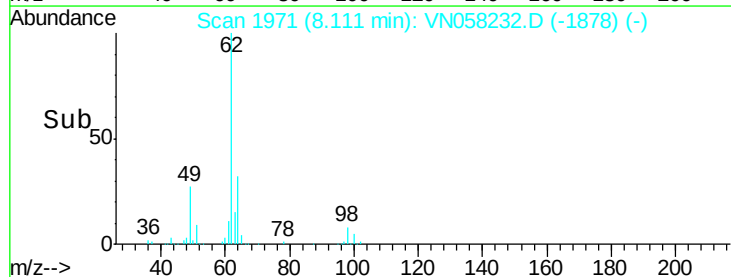
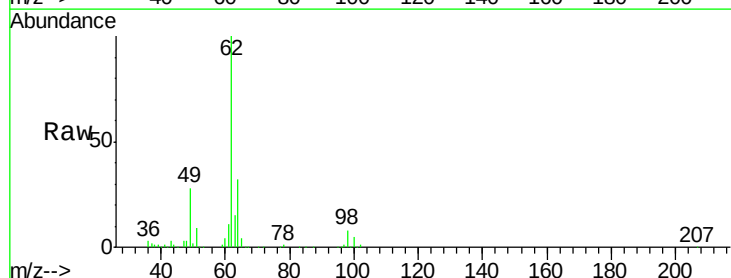
Manual Integrations
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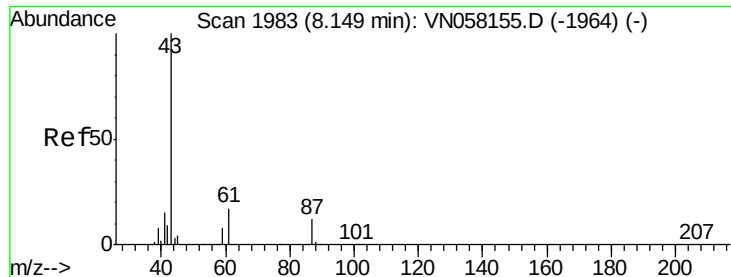
MMDadoda
9/20/2019 3:37:06 PM



#42
1,2-Dichloroethane
Concen: 50.151 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.6





#43

Isopropyl Acetate

Concen: 50.141 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

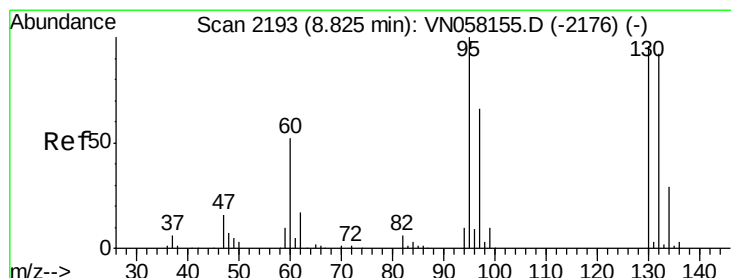
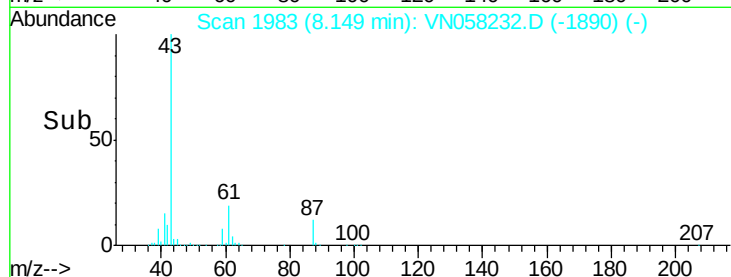
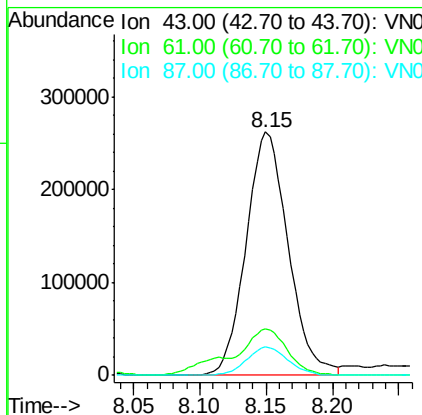
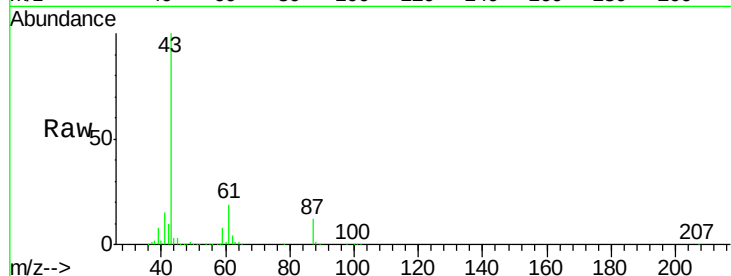
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	576923
Ion	Ratio	Lower	Upper
43	100		
61	18.7	19.7	29.5#
87	11.7	9.4	14.2

Manual Integrations
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#44

Trichloroethene

Concen: 49.090 ug/l

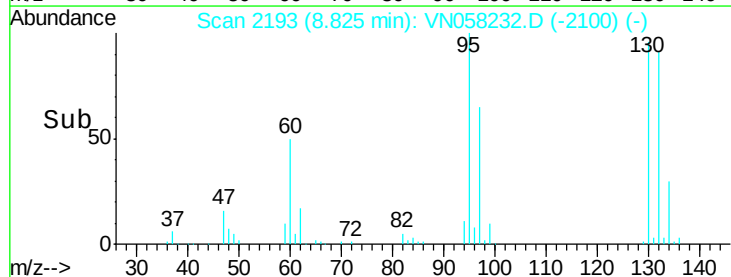
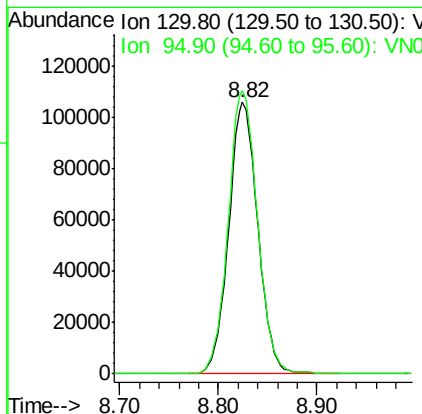
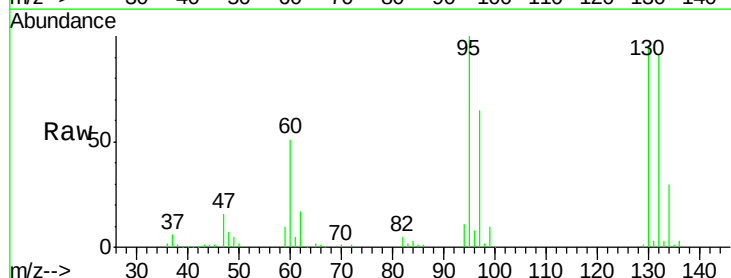
RT: 8.82 min Scan# 2193

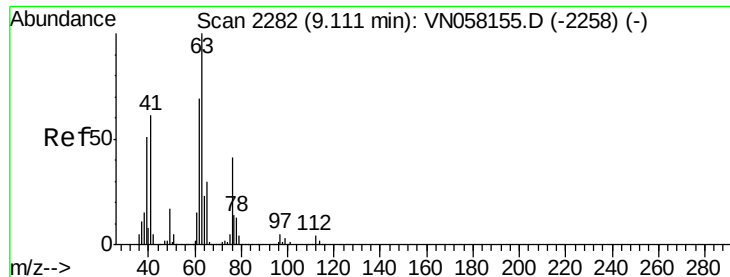
Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Tgt Ion:	130	Resp:	217821
Ion	Ratio	Lower	Upper
130	100		
95	104.2	0.0	207.8





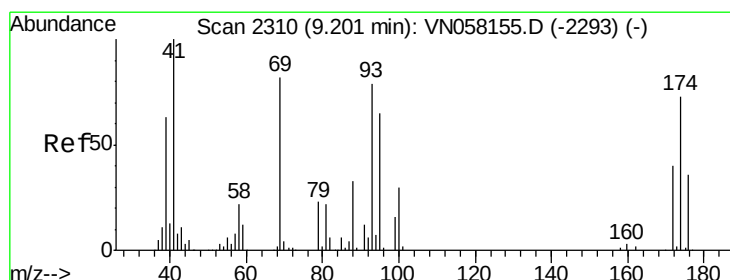
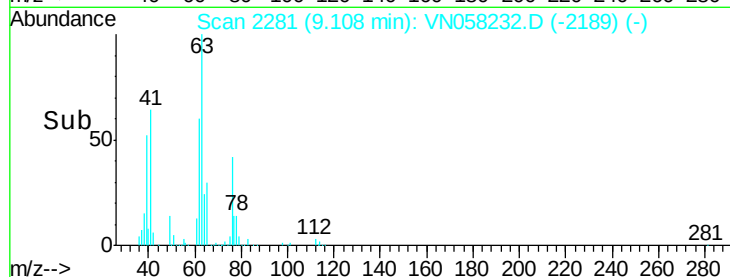
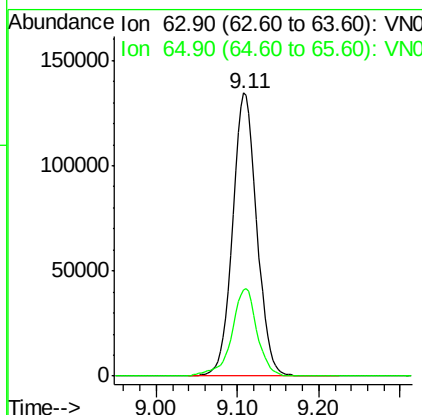
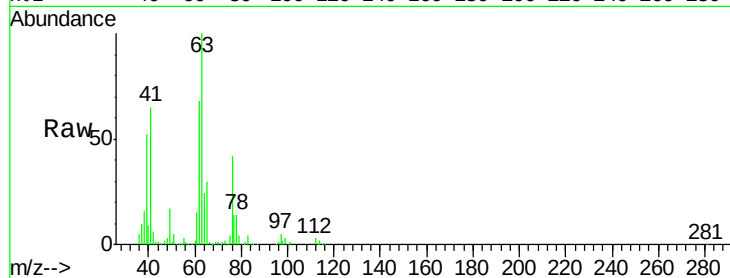
#45
 1,2-Dichloropropane
 Concen: 51.599 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 279407
 Ion Ratio Lower Upper
 63 100
 65 30.5 23.8 35.6

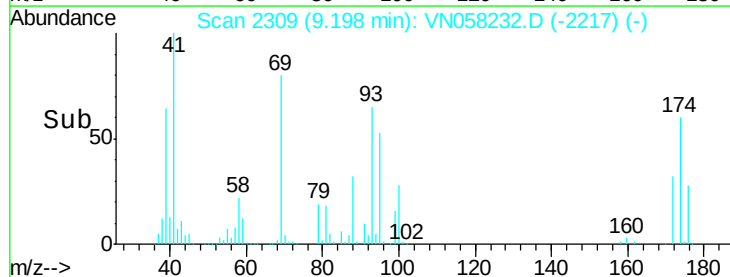
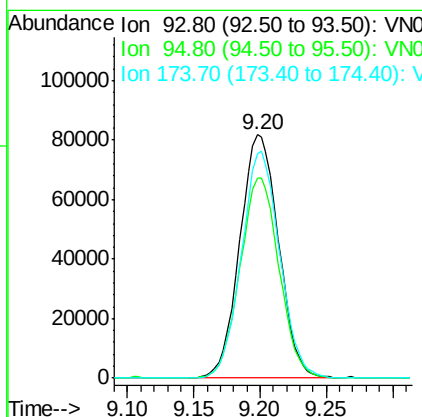
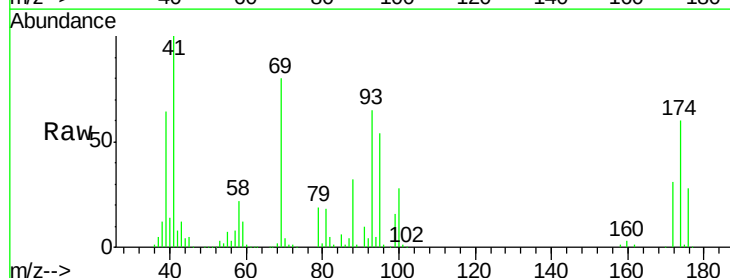
Manual Integrations
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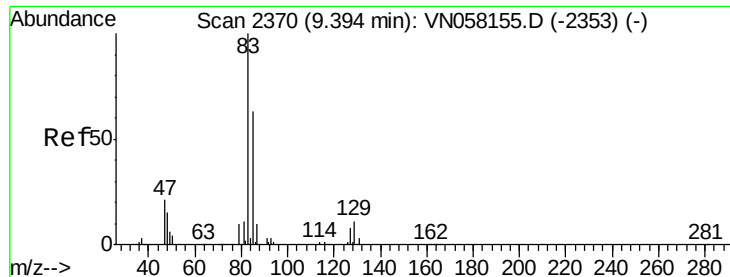
MMDadoda
 9/20/2019 3:37:06 PM



#46
 Dibromomethane
 Concen: 50.609 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Tgt Ion: 93 Resp: 166616
 Ion Ratio Lower Upper
 93 100
 95 83.0 66.8 100.2
 174 92.2 73.8 110.8





#47

Bromodichloromethane

Concen: 53.308 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

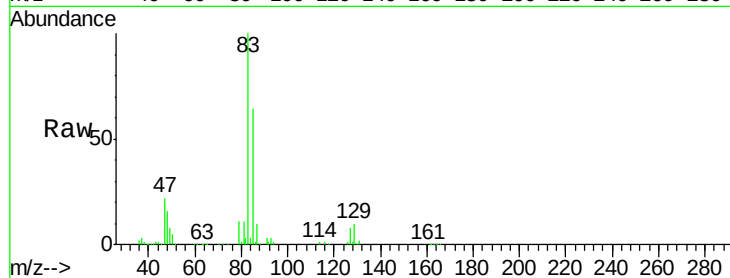
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	367669
Ion	Ratio	Lower	Upper
83	100		
85	64.0	50.1	75.1
127	7.9	6.4	9.6

Manual Integrations
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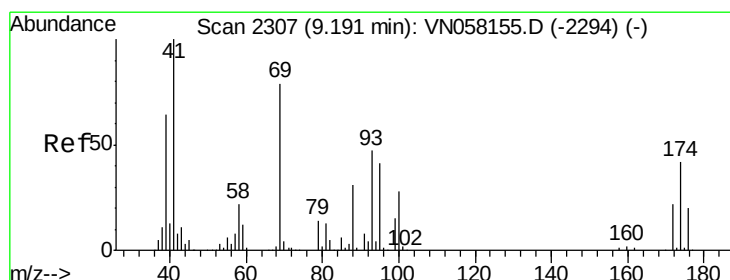
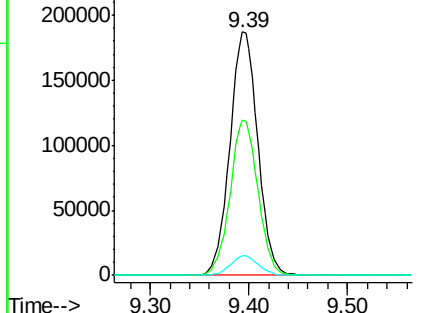
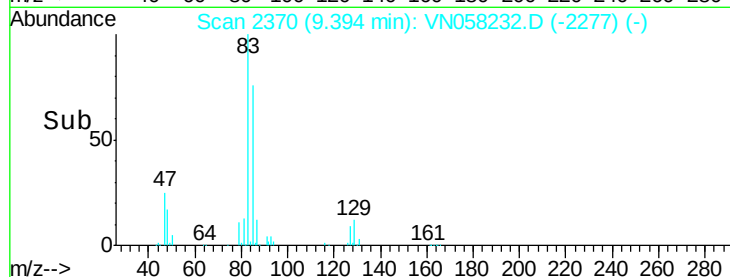


Abundance Ion 82.90 (82.60 to 83.60): VN058232.D (-2277) (-)

Ion 84.90 (84.60 to 85.60): VN058232.D (-2277) (-)

Ion 126.80 (126.50 to 127.50): VN058232.D (-2277) (-)

Time-->



#48

Methyl methacrylate

Concen: 53.226 ug/l

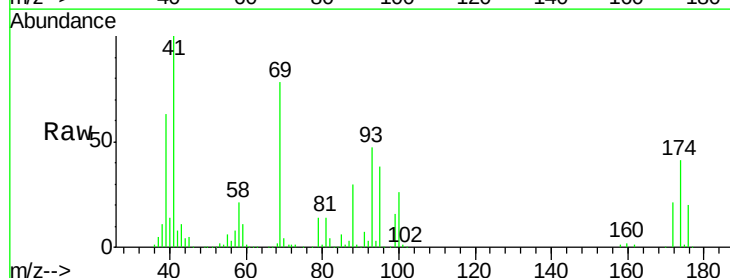
RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Tgt Ion:	41	Resp:	278064
Ion	Ratio	Lower	Upper
41	100		
69	79.4	62.5	93.7
39	63.9	52.3	78.5

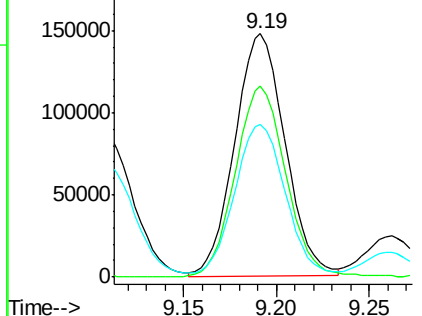
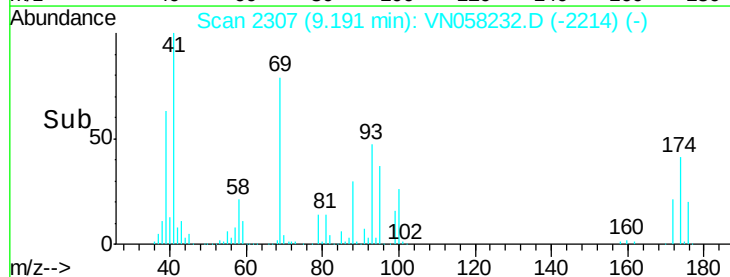


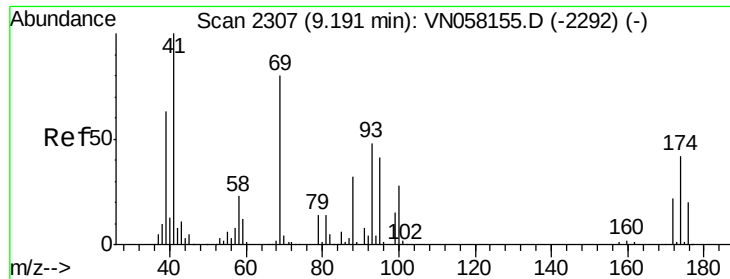
Abundance Ion 41.00 (40.70 to 41.70): VN058232.D (-2214) (-)

Ion 69.00 (68.70 to 69.70): VN058232.D (-2214) (-)

Ion 39.00 (38.70 to 39.70): VN058232.D (-2214) (-)

Time-->





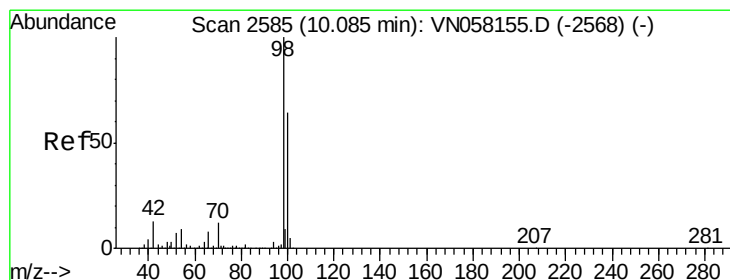
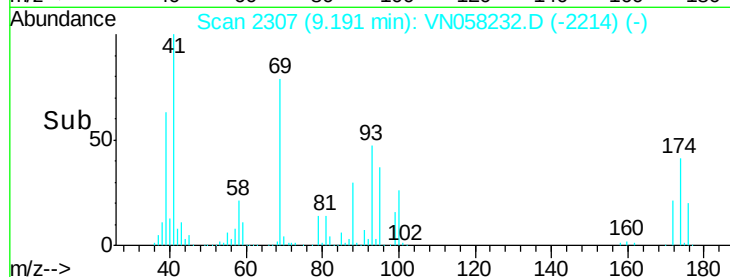
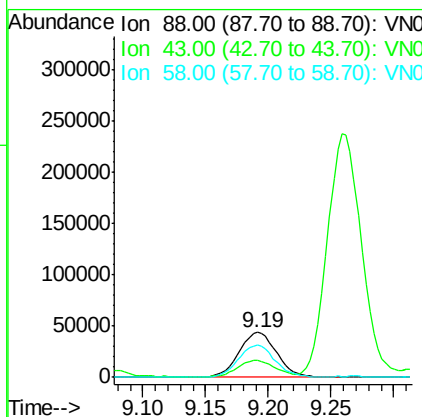
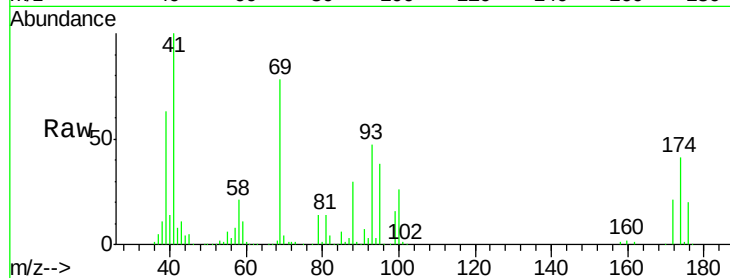
#49
 1,4-Dioxane
 Concen: 1067.946 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	88	Resp	91600
Ion	Ratio	Lower	Upper
88	100		
43	35.7	27.8	41.8
58	70.2	55.0	82.4

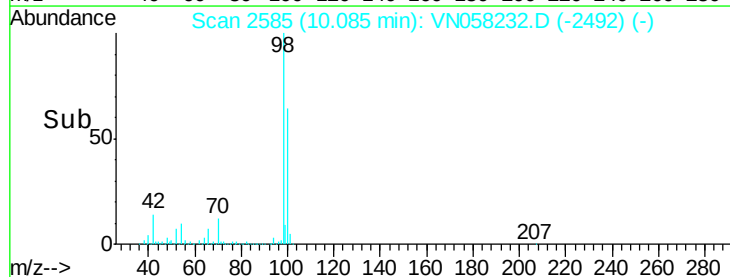
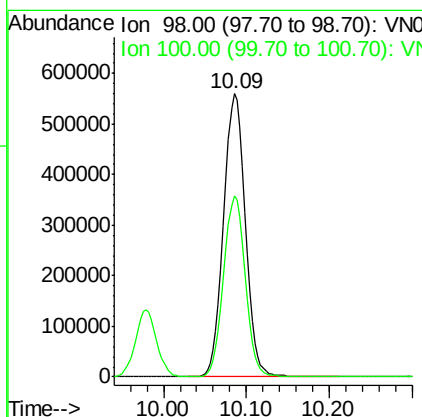
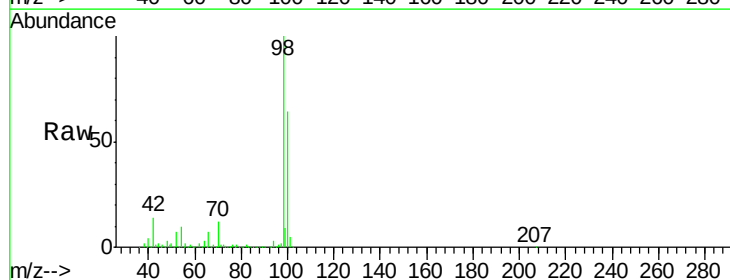
Manual Integrations
 APPROVED

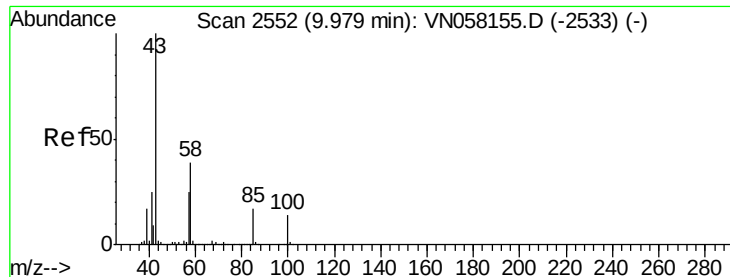
MMDadoda
 9/20/2019 3:37:06 PM



#50
 Toluene-d8
 Concen: 52.421 ug/l
 RT: 10.09 min Scan# 2585
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Tgt Ion	98	Resp	1022121
Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 290.222 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1773695

Ion Ratio Lower Upper

43 100

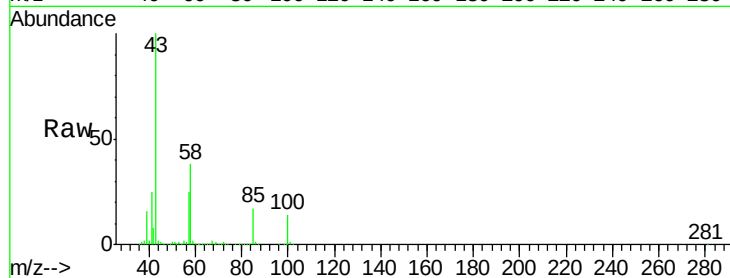
58 37.3 30.2 45.4

Manual Integrations

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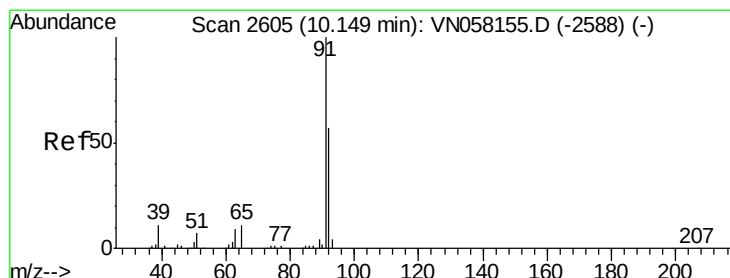
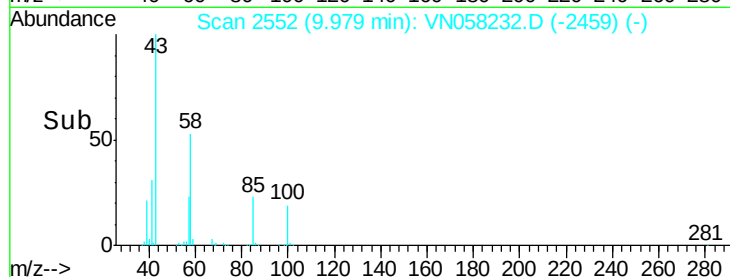
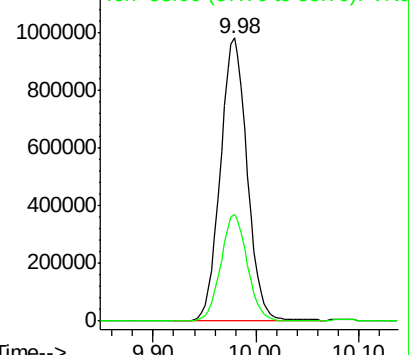
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 48.956 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058232.D

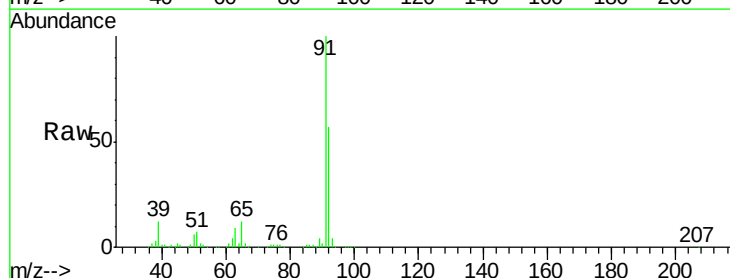
Acq: 20 Sep 2019 1:53

Tgt Ion: 92 Resp: 556319

Ion Ratio Lower Upper

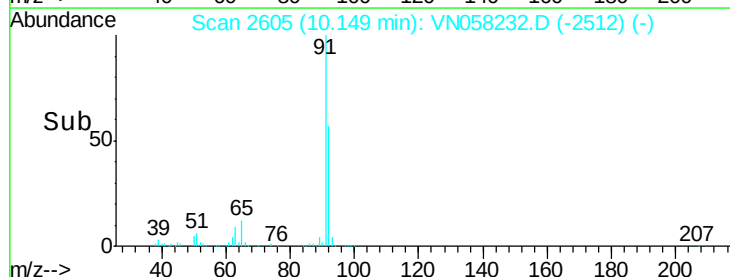
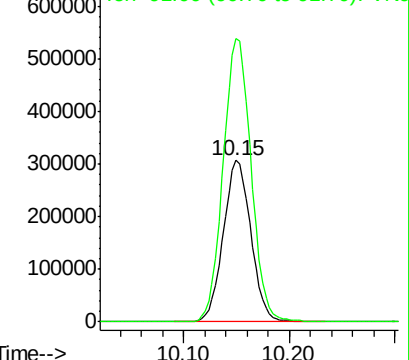
92 100

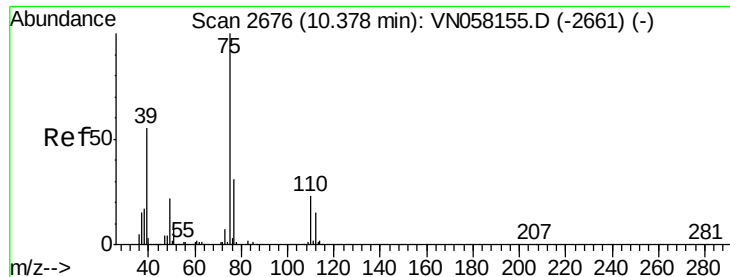
91 178.1 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





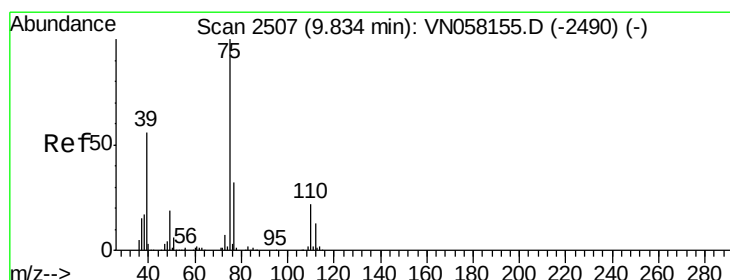
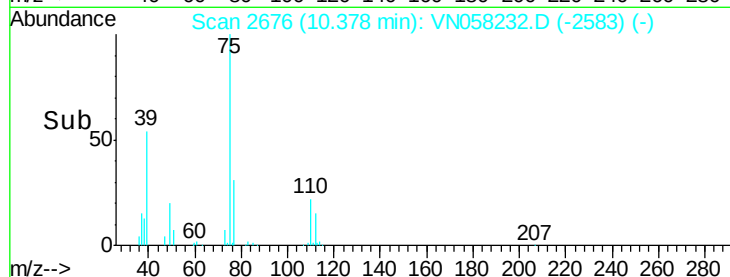
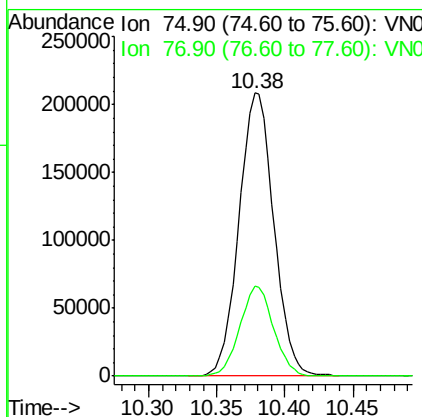
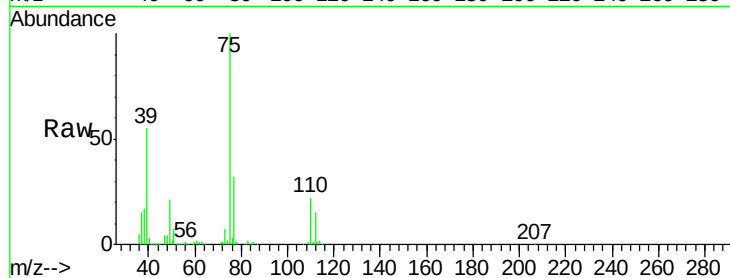
#53
t-1,3-Dichloropropene
Concen: 52.293 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	24.9	37.3

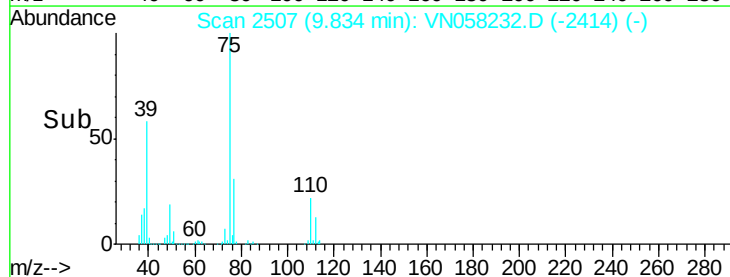
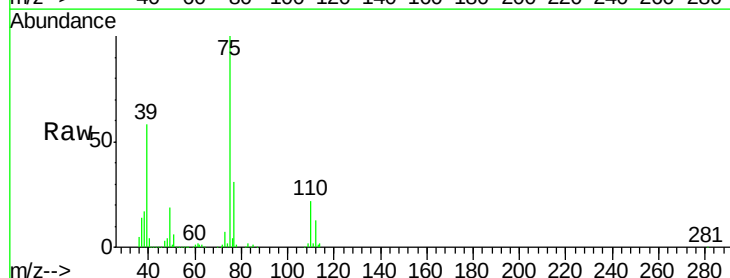
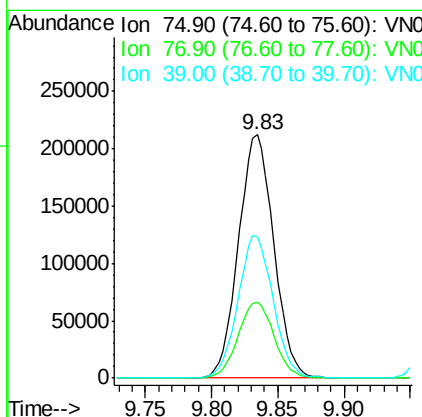
Manual Integrations
APPROVED

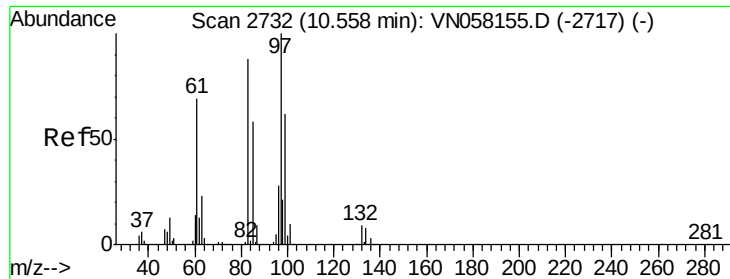
MMDadoda
9/20/2019 3:37:06 PM



#54
cis-1,3-Dichloropropene
Concen: 50.335 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.4	38.0
39	57.8	45.0	67.6





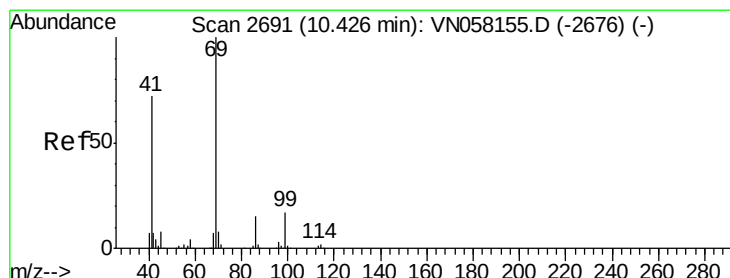
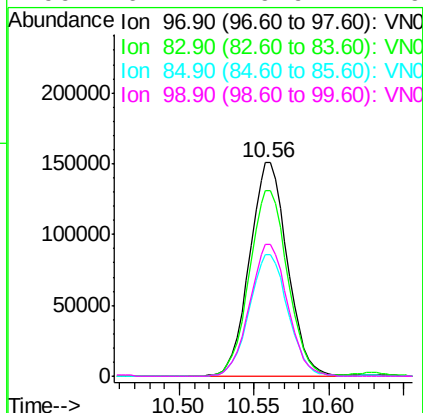
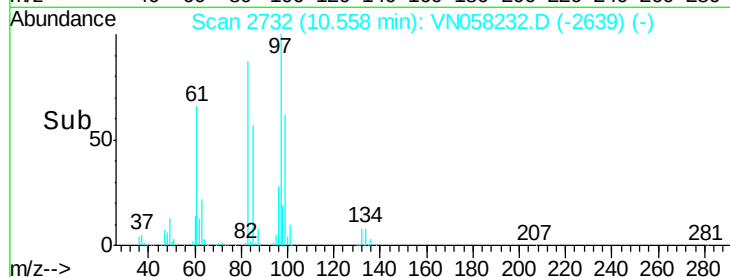
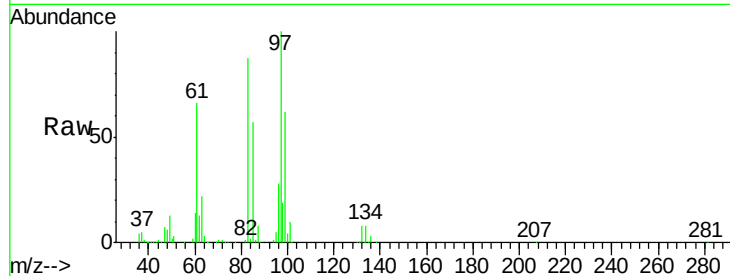
#55
 1,1,2-Trichloroethane
 Concen: 52.557 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	97	Resp:	265042
Ion	Ratio	Lower	Upper
97	100		
83	87.2	70.4	105.6
85	56.8	46.8	70.2
99	61.7	49.9	74.9

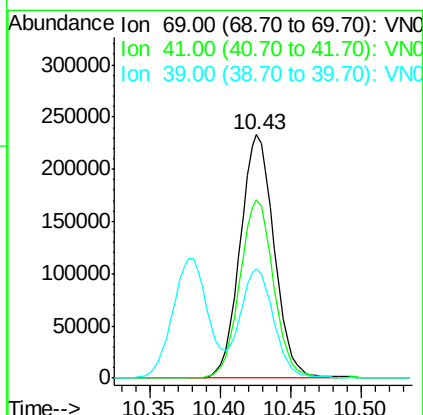
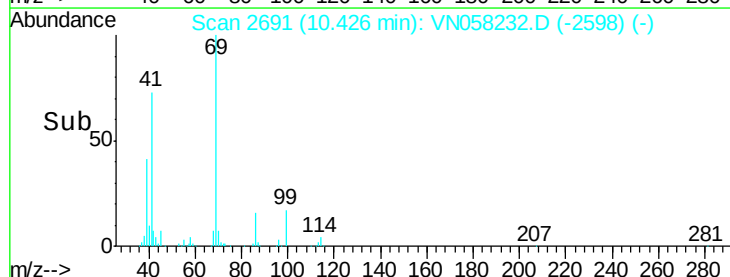
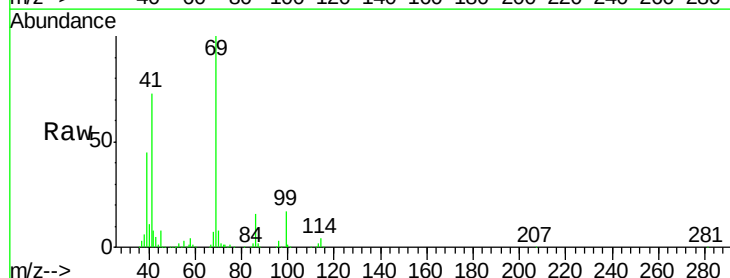
Manual Integrations
 APPROVED

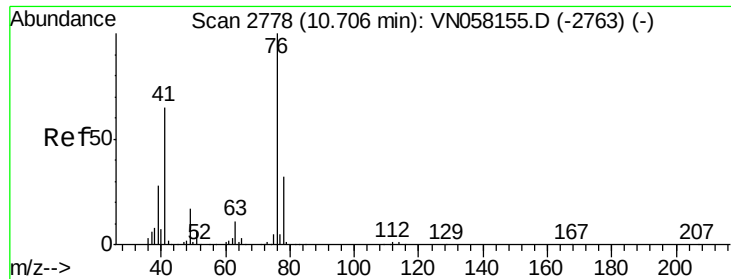
MMDadoda
 9/20/2019 3:37:06 PM



#56
 Ethyl methacrylate
 Concen: 54.175 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Tgt Ion:	69	Resp:	394181
Ion	Ratio	Lower	Upper
69	100		
41	72.0	57.5	86.3
39	43.9	36.1	54.1





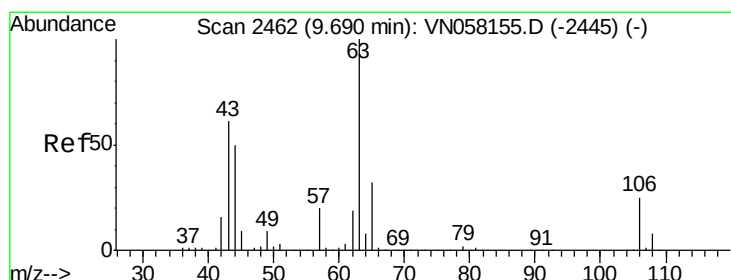
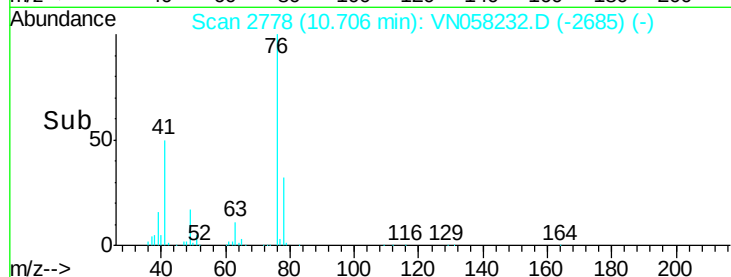
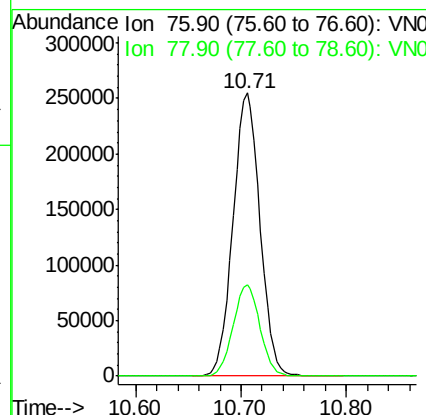
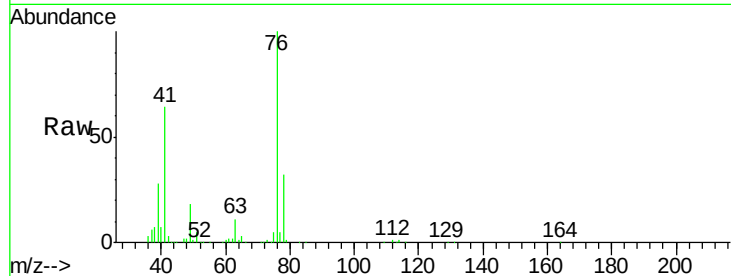
#57
 1,3-Dichloropropane
 Concen: 51.886 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 449818
 Ion Ratio Lower Upper
 76 100
 78 32.1 25.4 38.0

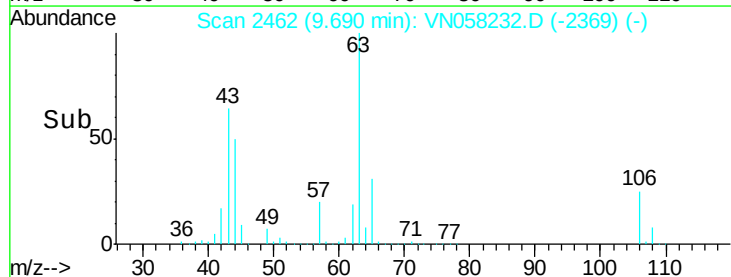
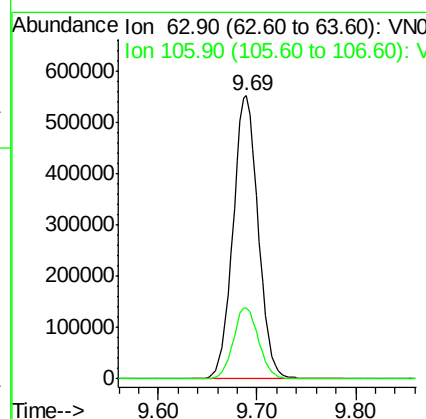
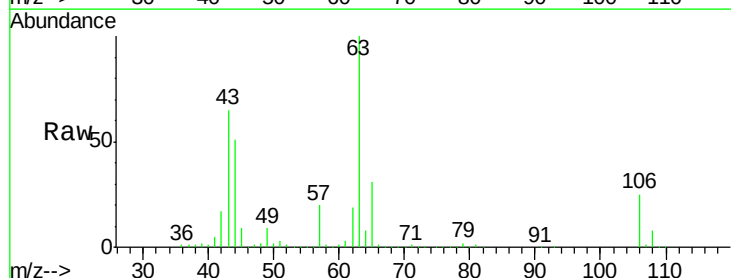
Manual Integrations
 APPROVED

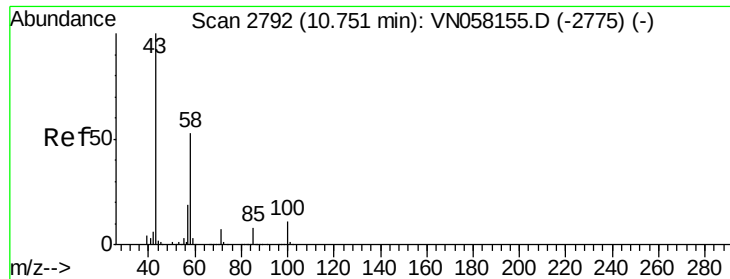
MMDadoda
 9/20/2019 3:37:06 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 283.365 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Tgt Ion: 63 Resp: 982087
 Ion Ratio Lower Upper
 63 100
 106 25.3 19.9 29.9





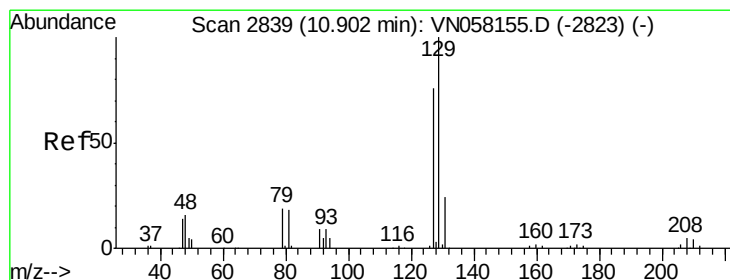
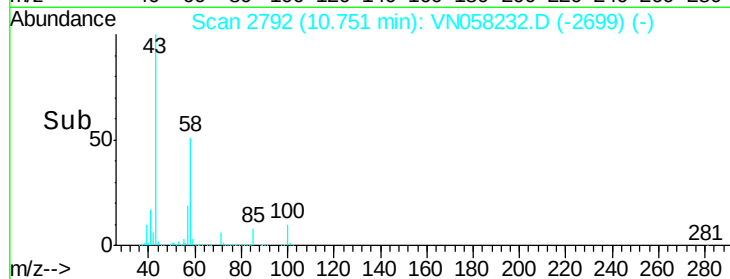
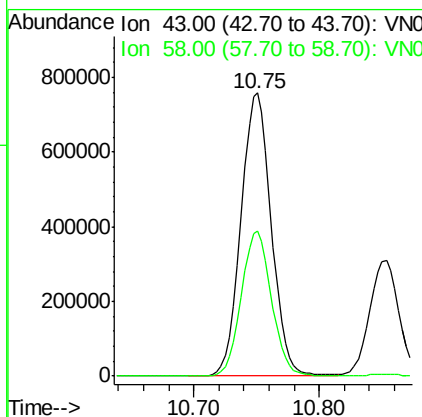
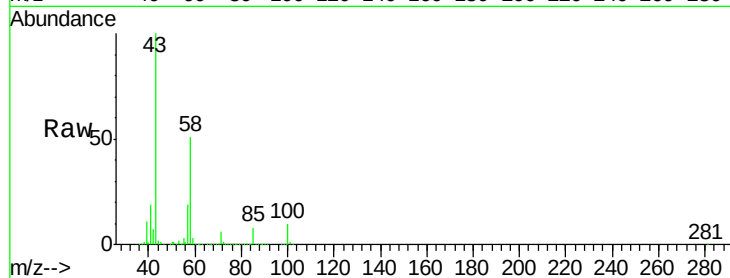
#59
 2-Hexanone
 Concen: 280.403 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 43 Resp: 1272738
 Ion Ratio Lower Upper
 43 100
 58 51.1 26.0 78.0

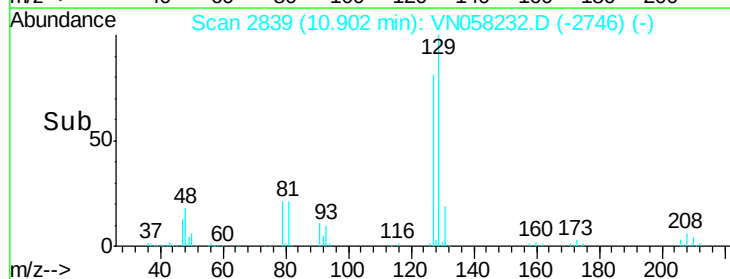
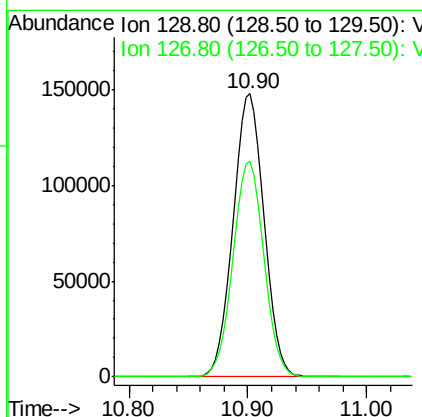
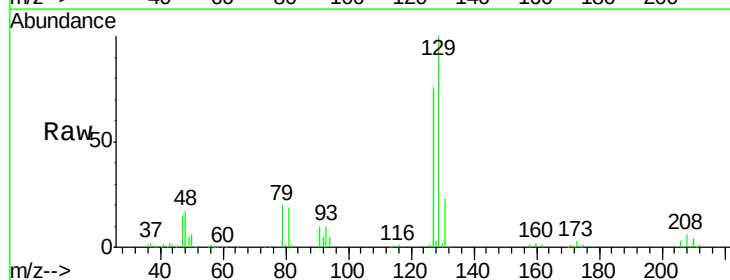
Manual Integrations
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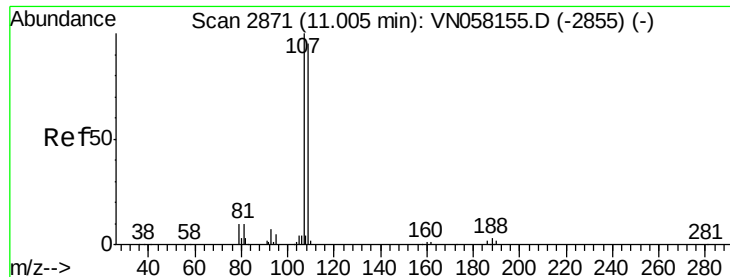
MMDadoda
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#60
 Dibromochloromethane
 Concen: 54.917 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Tgt Ion: 129 Resp: 266432
 Ion Ratio Lower Upper
 129 100
 127 76.2 38.7 116.1





#61

1,2-Dibromoethane

Concen: 52.004 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 107 Resp: 243037

Ion Ratio Lower Upper

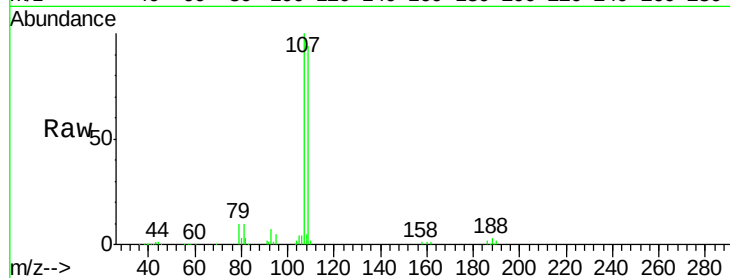
107 100

109 94.0 75.4 113.2

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

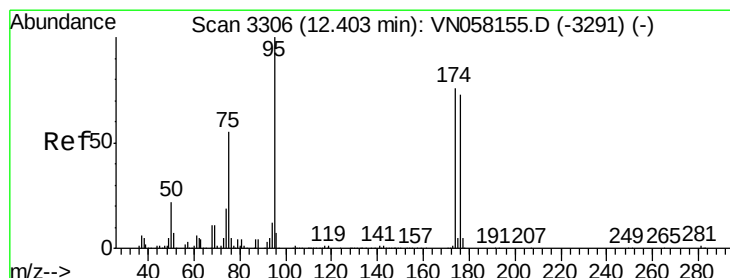
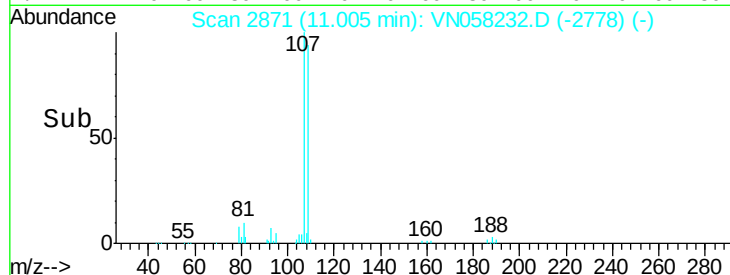
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 51.963 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

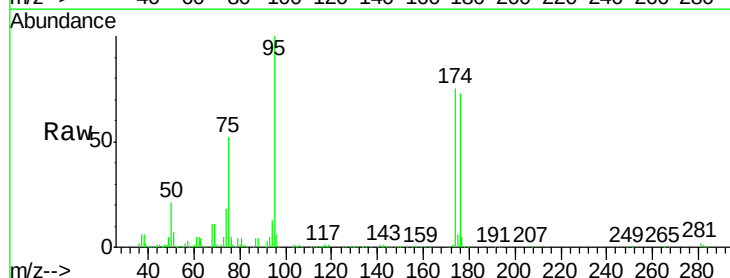
Tgt Ion: 95 Resp: 376364

Ion Ratio Lower Upper

95 100

174 74.9 0.0 152.2

176 72.6 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

300000

250000

200000

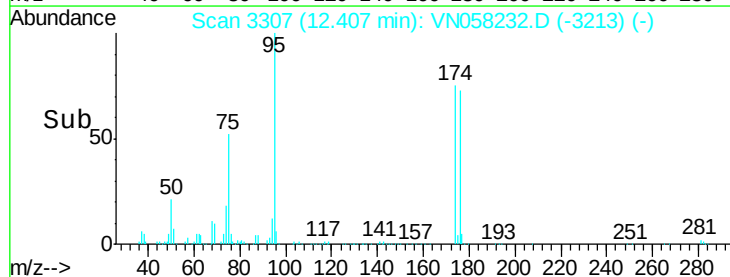
150000

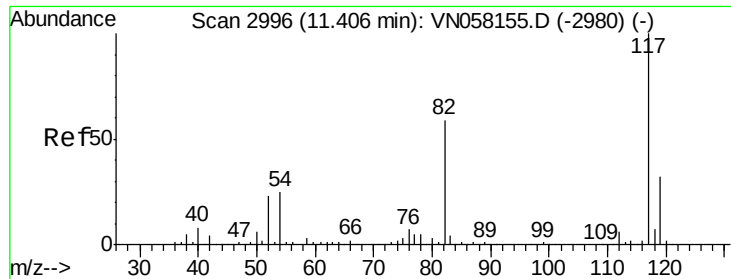
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

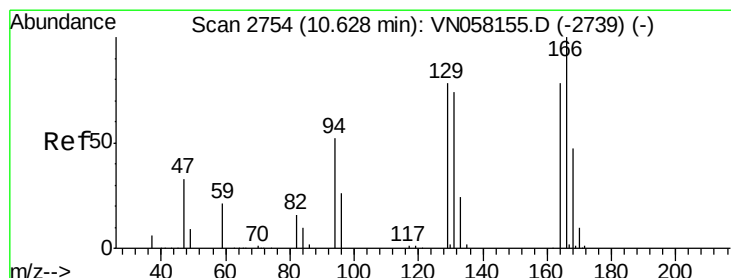
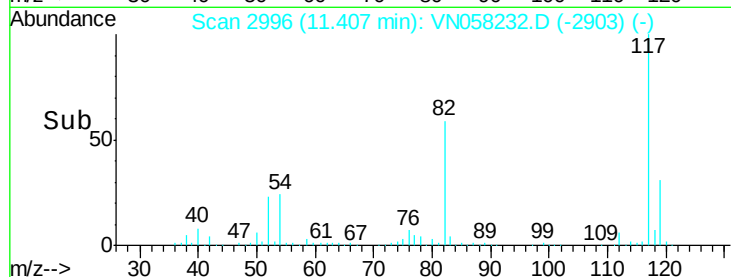
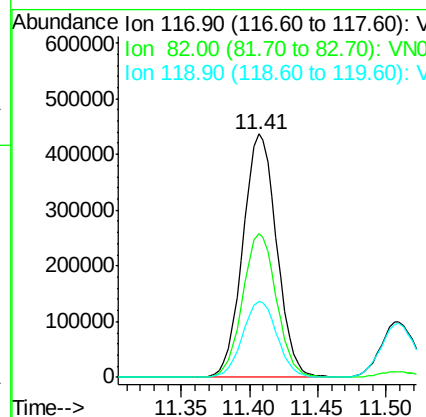
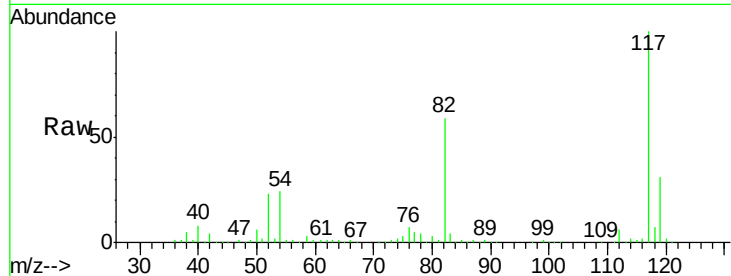
ClientSampleId :

VSTDCCC050EC

Tot Ion:	117	Resp:	753314
Ion Ratio	Lower	Upper	
117	100		
82	59.3	46.9	70.3
119	31.2	25.3	37.9

Manual Integrations
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#64

Tetrachloroethene

Concen: 47.805 ug/l

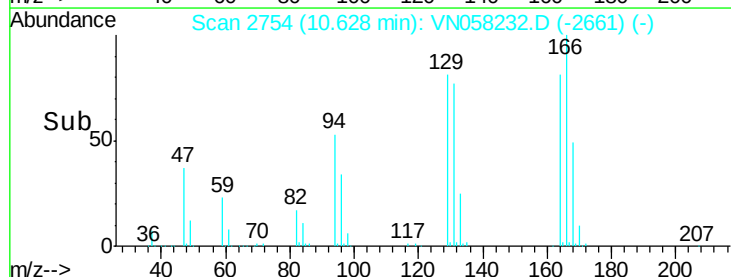
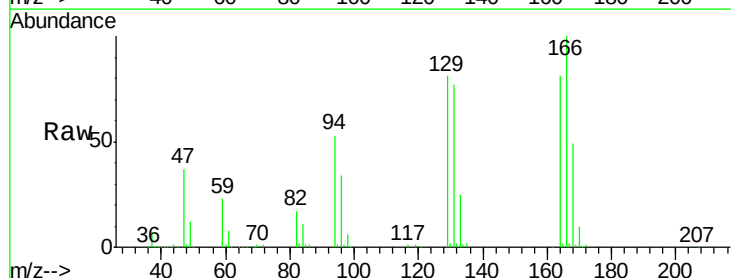
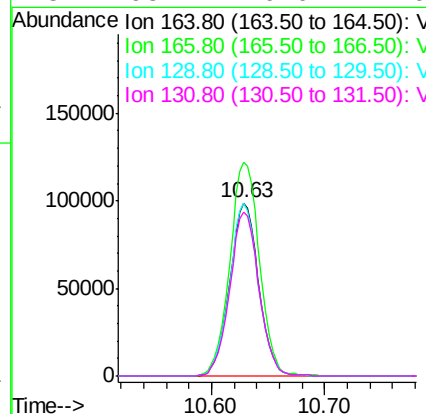
RT: 10.63 min Scan# 2754

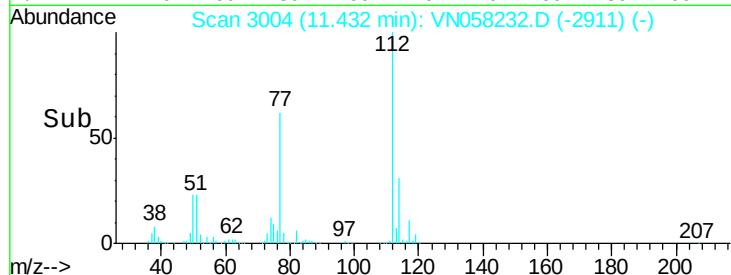
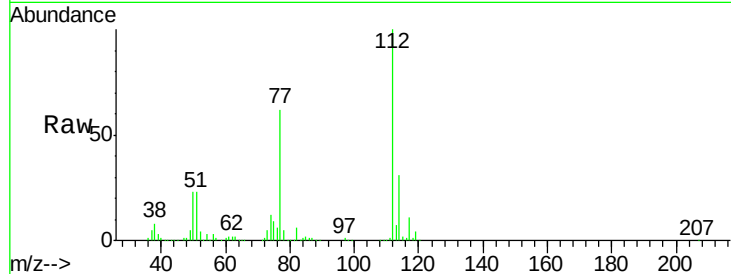
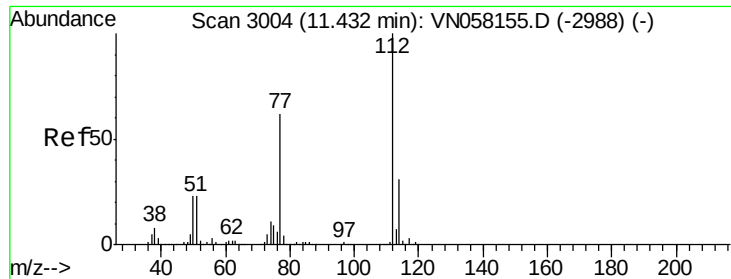
Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Tgt Ion:	164	Resp:	175549
Ion Ratio	Lower	Upper	
164	100		
166	123.4	102.2	153.4
129	99.5	79.6	119.4
131	95.1	76.0	114.0





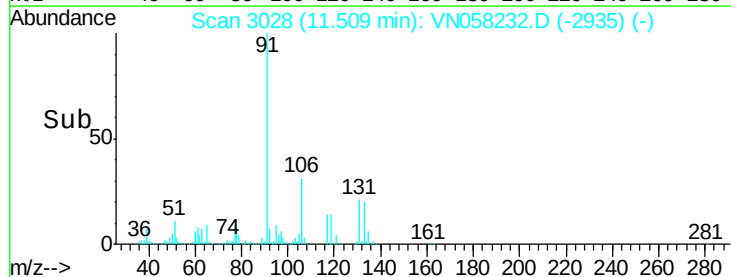
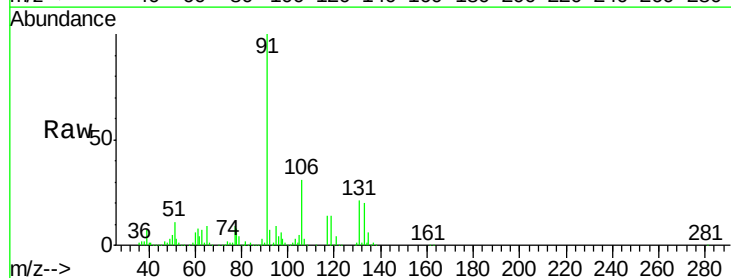
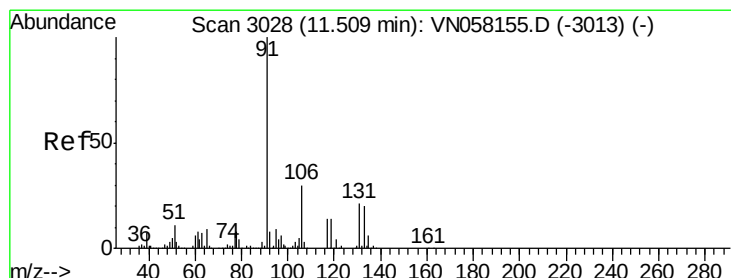
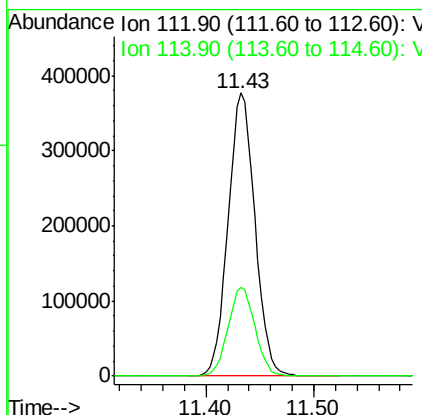
#65
Chlorobenzene
Concen: 49.363 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tot Ion:112 Resp: 654073
Ion Ratio Lower Upper
112 100
114 31.3 25.1 37.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

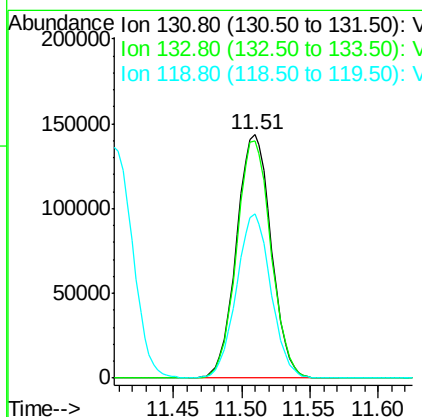
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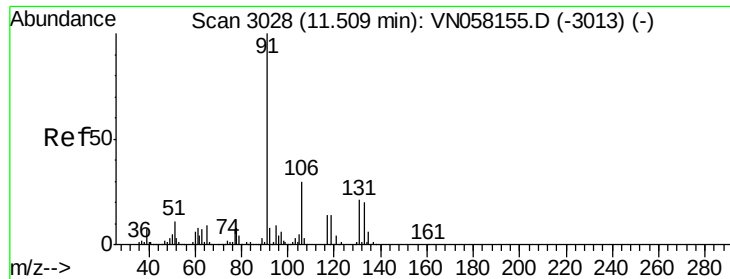
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#66
1,1,1,2-Tetrachloroethane
Concen: 52.844 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion:131 Resp: 253894
Ion Ratio Lower Upper
131 100
133 96.6 47.8 143.3
119 66.7 33.1 99.3





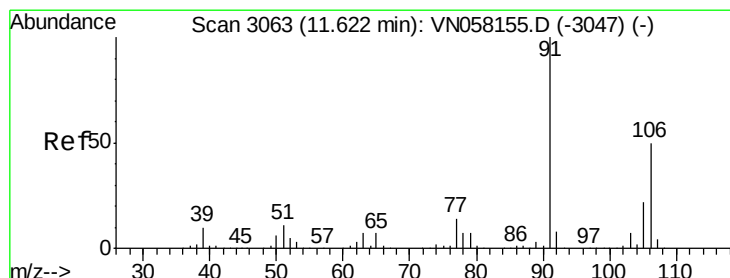
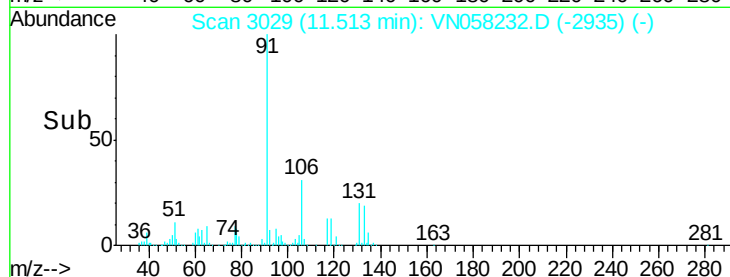
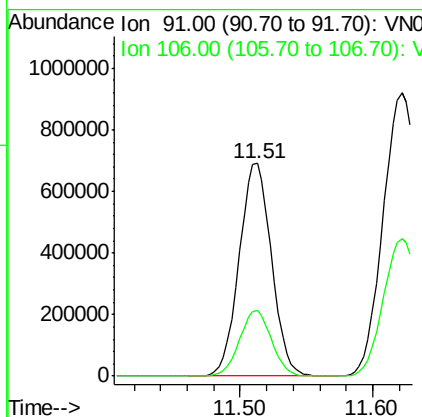
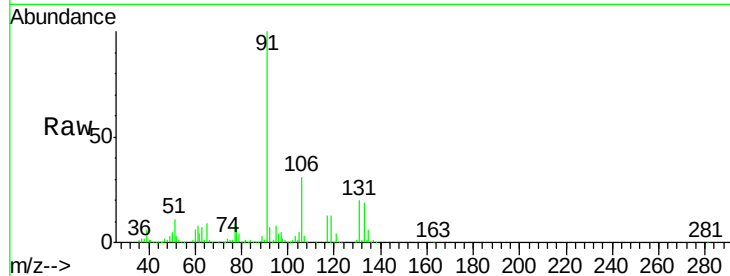
#67
Ethyl Benzene
Concen: 51.503 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1169327
Ion Ratio Lower Upper
91 100
106 30.8 24.0 36.0

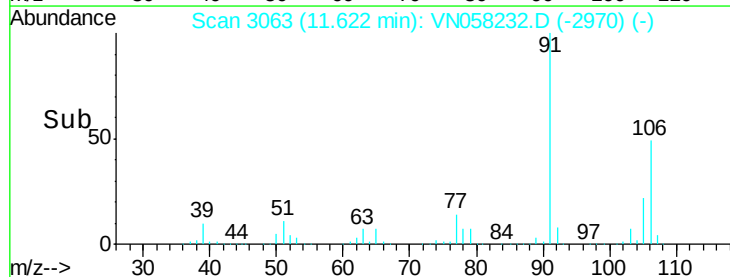
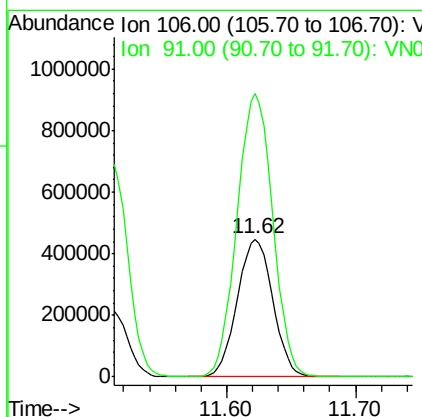
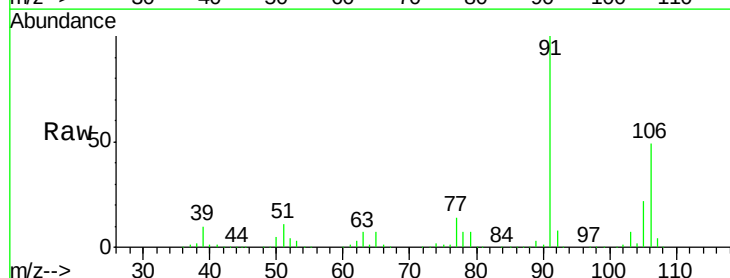
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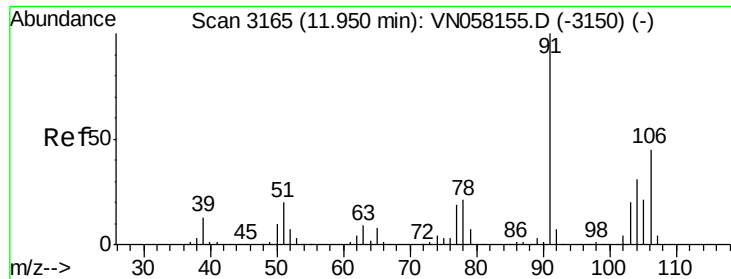
MMDadoda
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#68
m/p-Xylenes
Concen: 100.190 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion: 106 Resp: 856734
Ion Ratio Lower Upper
106 100
91 207.3 163.6 245.4





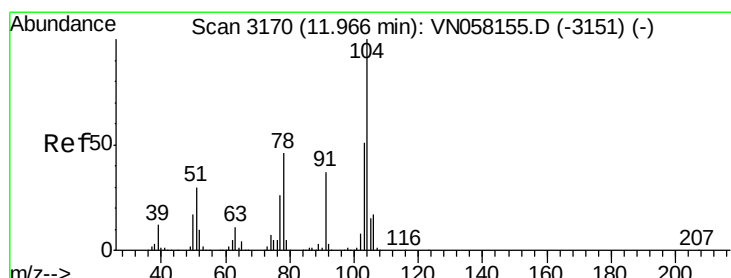
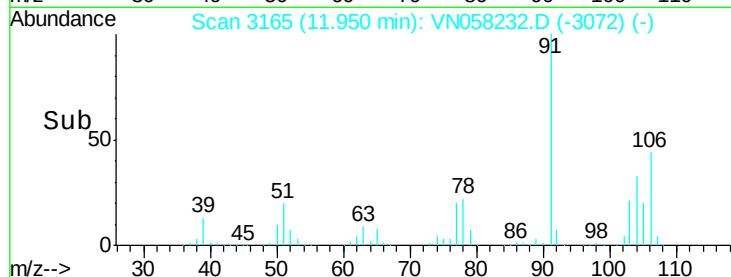
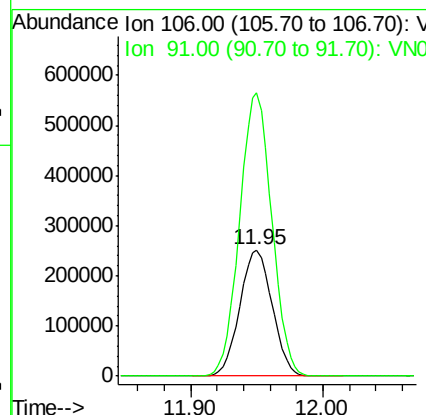
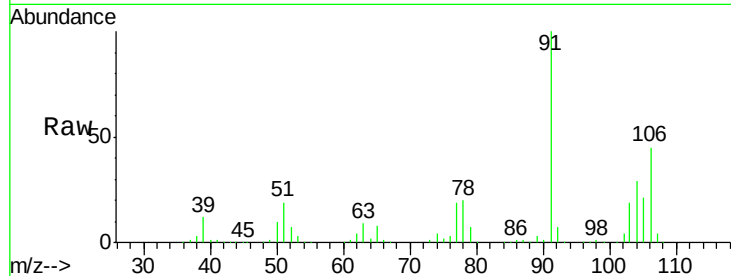
#69
o-Xylene
Concen: 50.948 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 428382
Ion Ratio Lower Upper
106 100
91 221.9 111.8 335.3

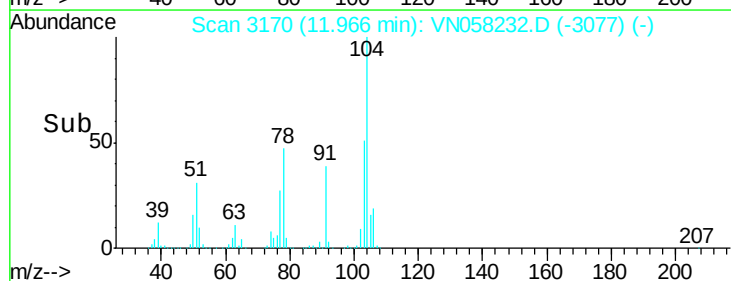
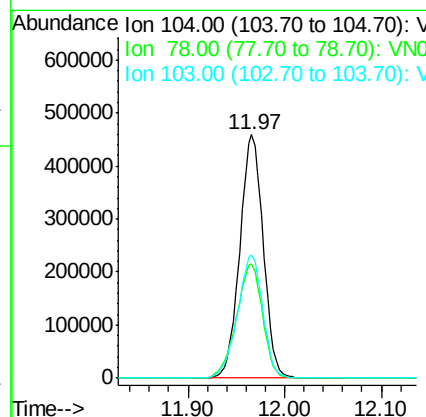
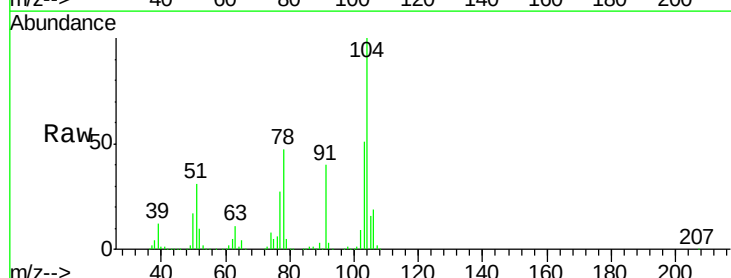
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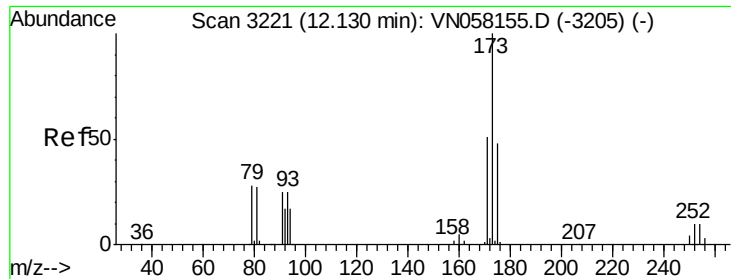
MMDadoda
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#70
Styrene
Concen: 53.301 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion:104 Resp: 772186
Ion Ratio Lower Upper
104 100
78 52.1 41.8 62.8
103 54.5 44.2 66.2





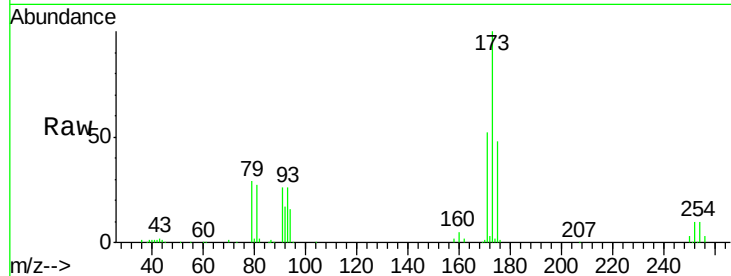
#71
Bromoform
Concen: 47.464 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

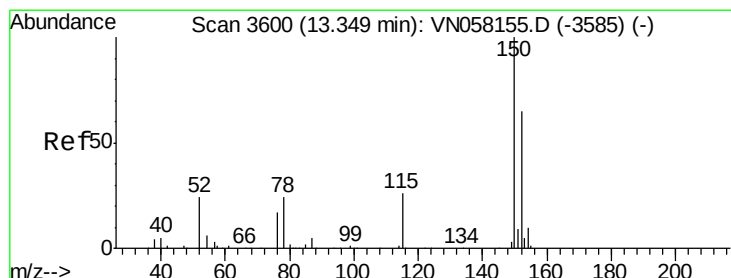
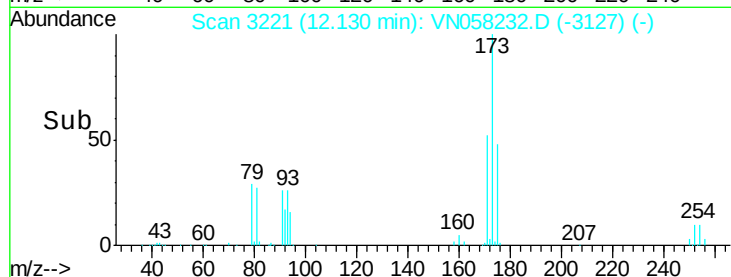
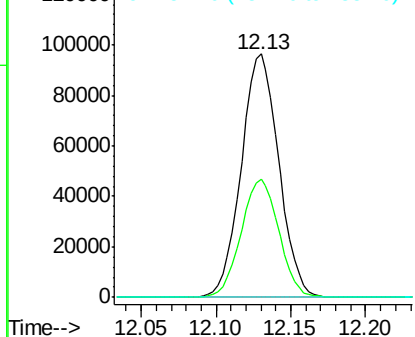
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.2	72.6
254	0.0	0.1	0.1#

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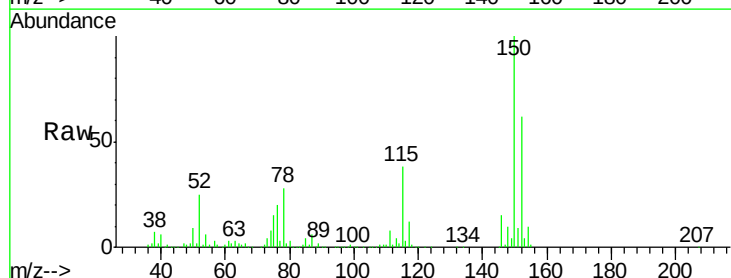


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

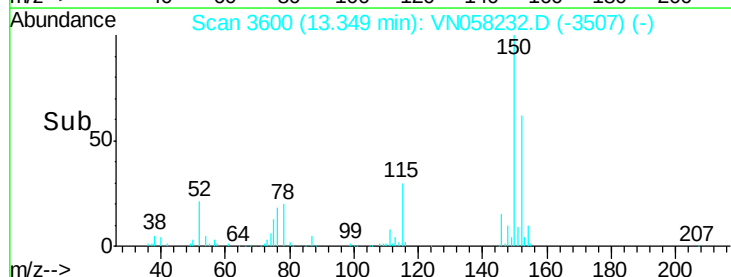
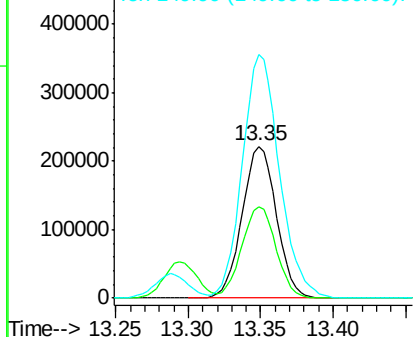


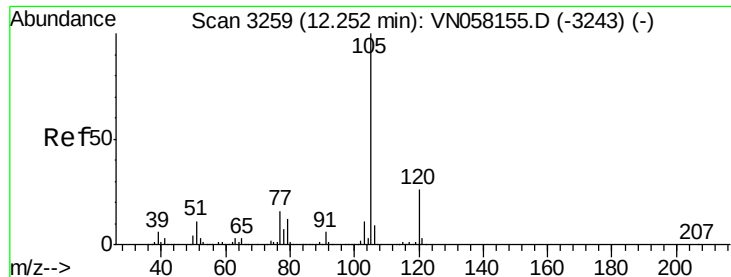
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058232.D
Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.6	30.1	90.3
150	174.4	0.0	346.4



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





#73

Isopropylbenzene

Concen: 53.961 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1226924

Ion Ratio Lower Upper

105 100

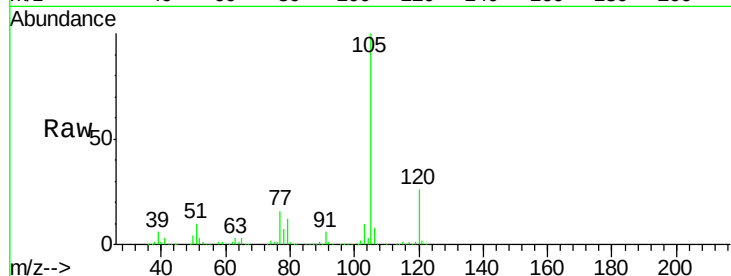
120 25.5 12.8 38.3

Manual Integrations

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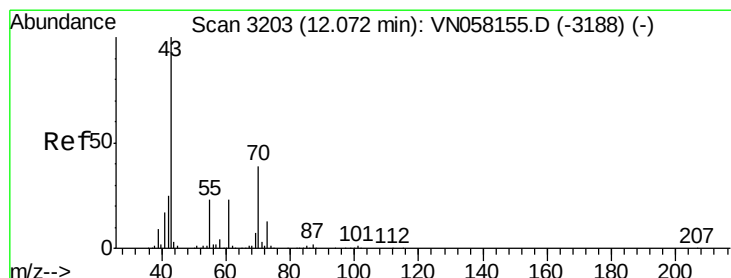
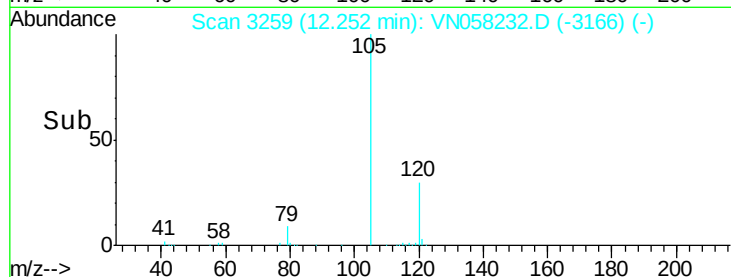
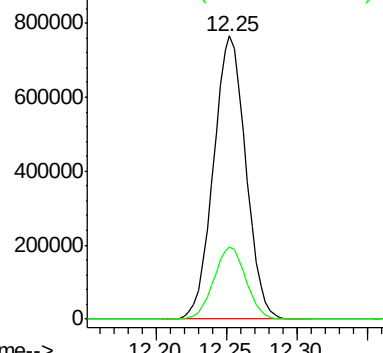
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 57.448 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Tgt Ion: 43 Resp: 546441

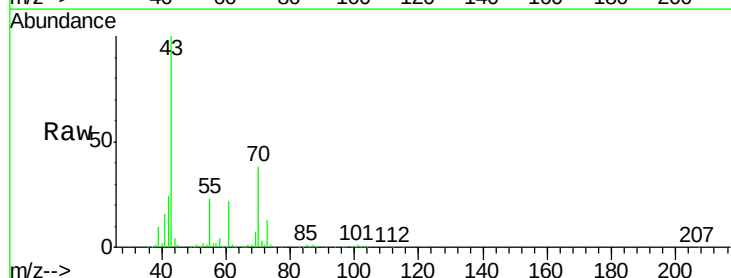
Ion Ratio Lower Upper

43 100

70 38.8 31.0 46.6

55 23.7 18.5 27.7

61 22.1 18.2 27.2

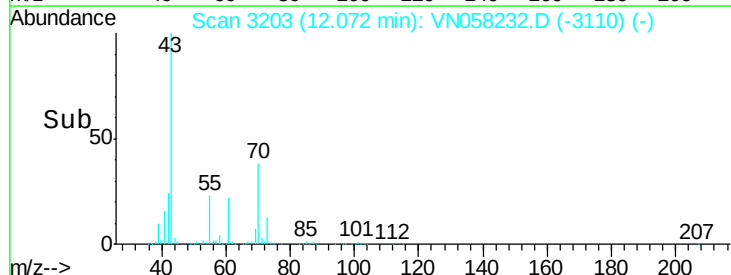
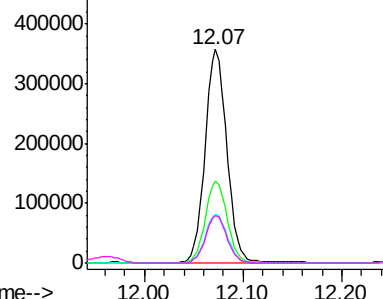


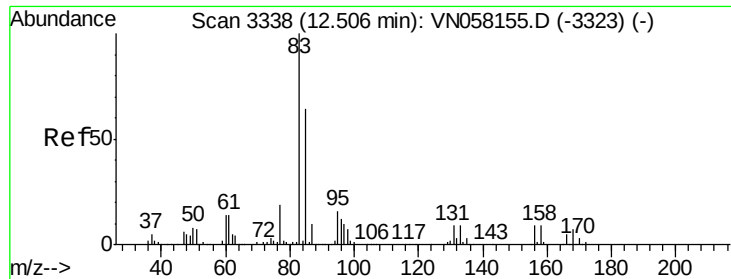
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 53.246 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

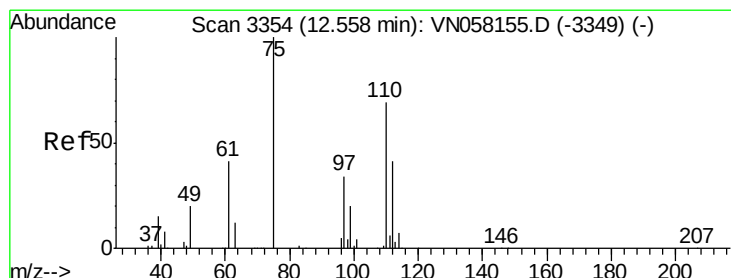
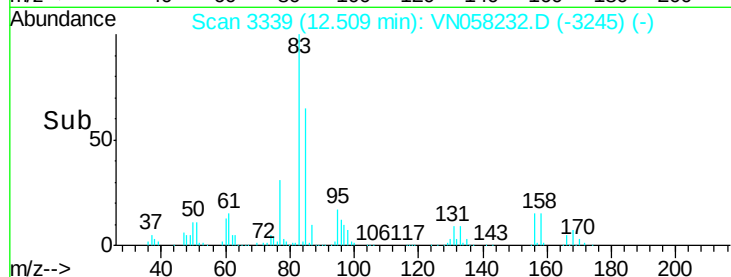
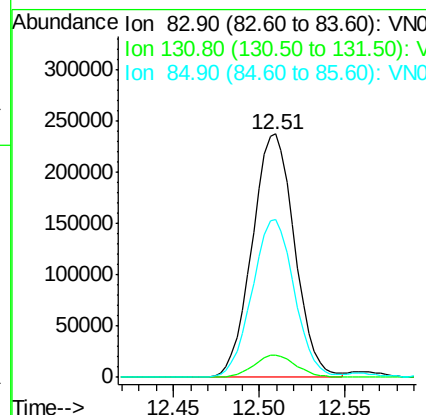
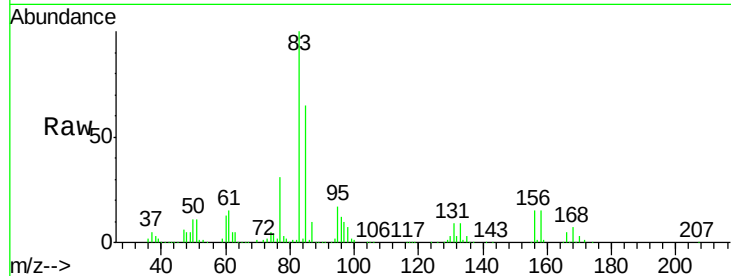
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	405420
Ion Ratio	Lower	Upper	
83	100		
131	9.3	4.8	14.3
85	64.2	31.9	95.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 48.067 ug/l m

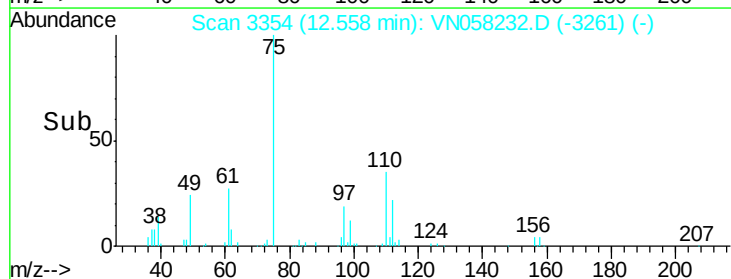
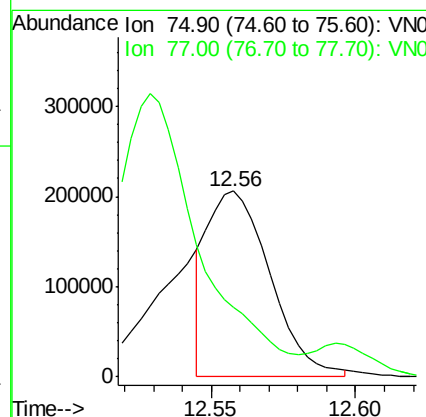
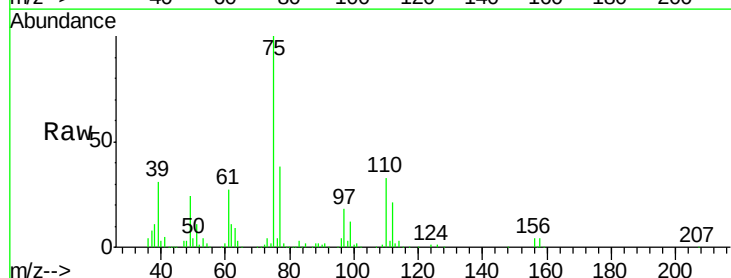
RT: 12.56 min Scan# 3354

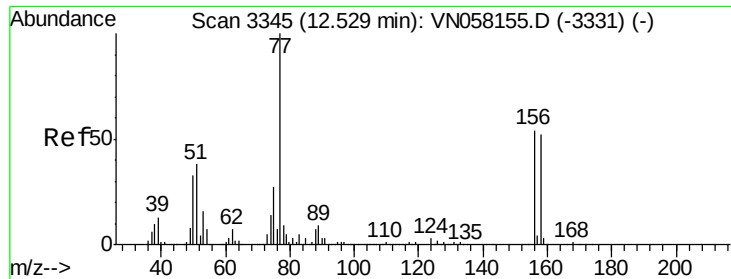
Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Tgt Ion:	75	Resp:	312485
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 49.922 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

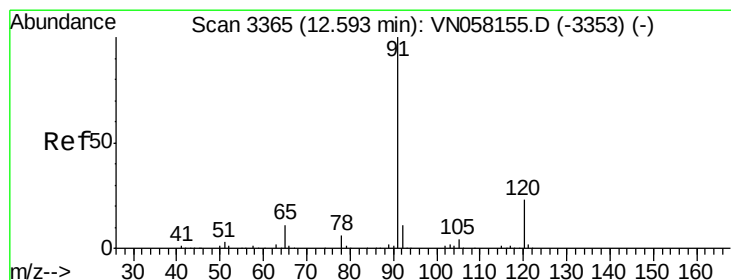
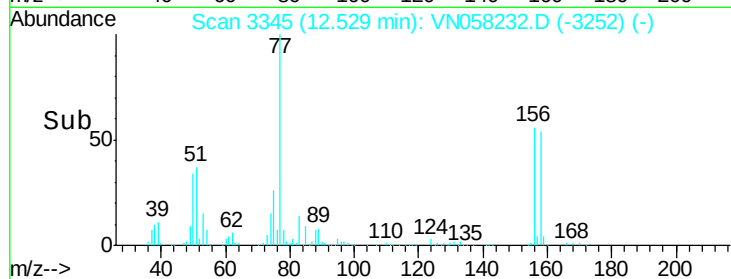
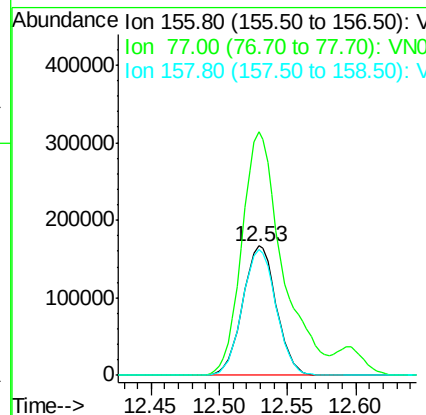
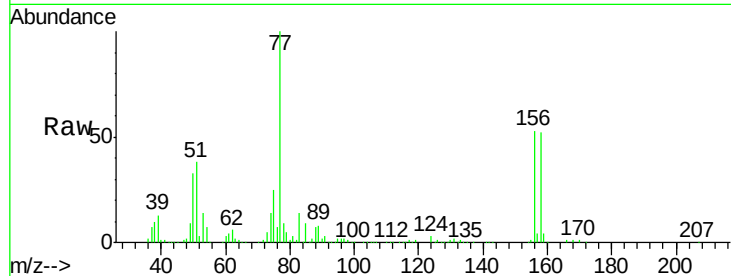
ClientSampleId :

VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		285523		
77	226.8	111.7	335.1		
158	97.7	47.9	143.8		

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#78

n-propylbenzene

Concen: 54.721 ug/l

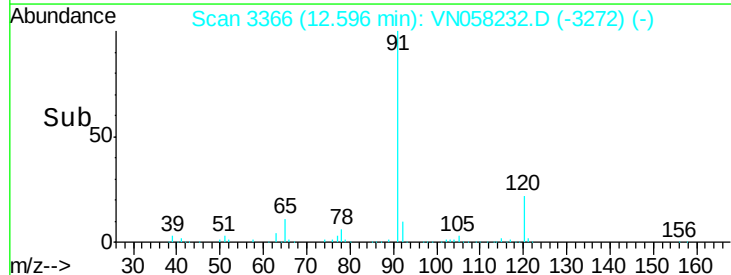
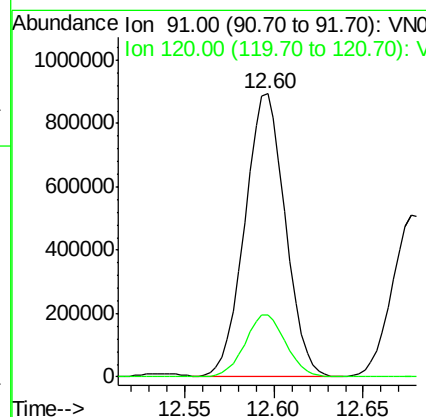
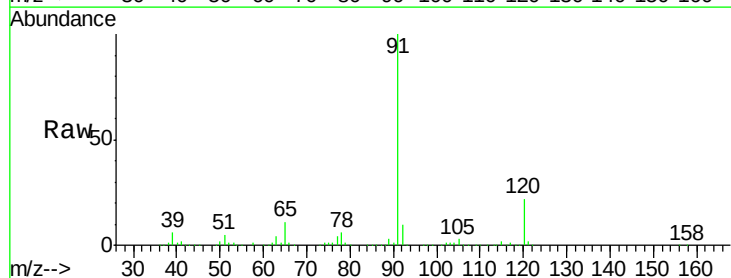
RT: 12.60 min Scan# 3366

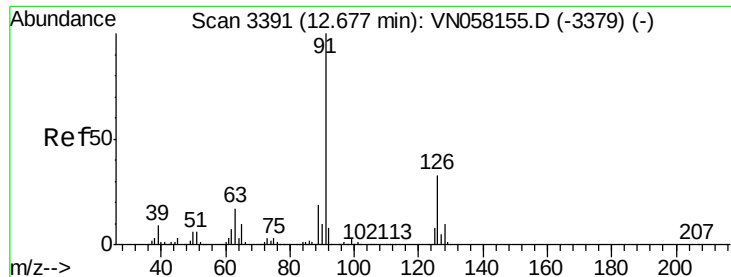
Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		1413849		
120	22.1	11.1	33.3		





#79

2-Chlorotoluene

Concen: 53.052 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 856661

Ion Ratio Lower Upper

91 100

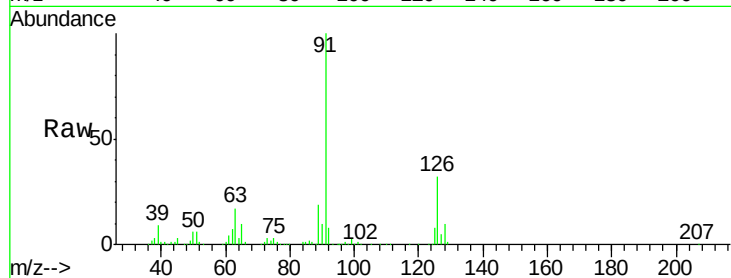
126 32.5 16.4 49.1

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN058155.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN058155.D (-3379) (-)

800000

600000

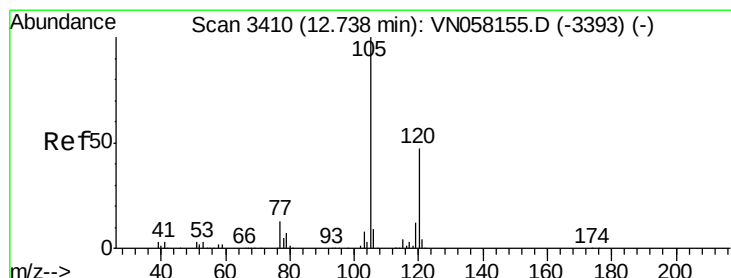
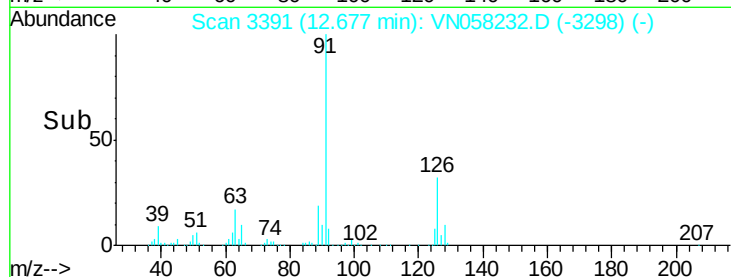
400000

200000

0

12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 54.080 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058232.D

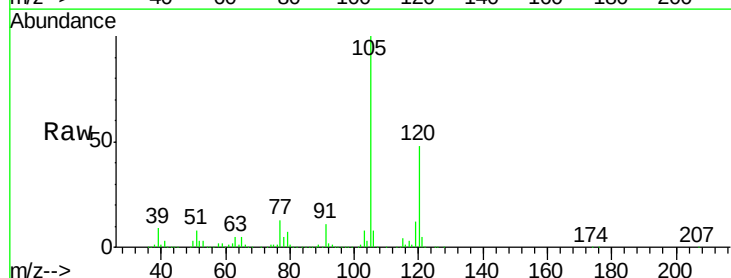
Acq: 20 Sep 2019 1:53

Tgt Ion: 105 Resp: 1039791

Ion Ratio Lower Upper

105 100

120 47.6 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN058155.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN058155.D (-3393) (-)

600000

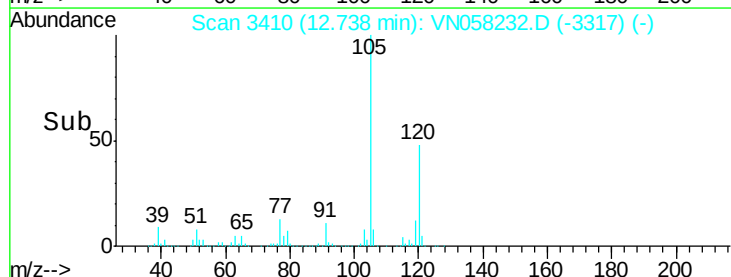
400000

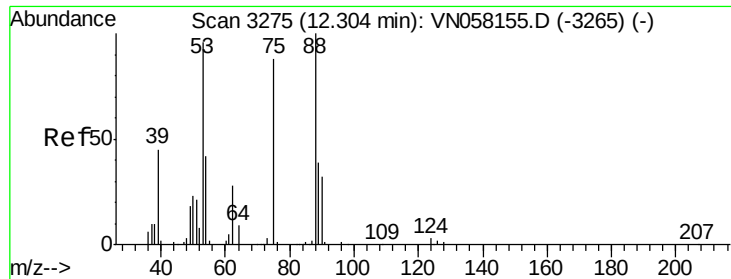
200000

0

12.70 12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 46.032 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

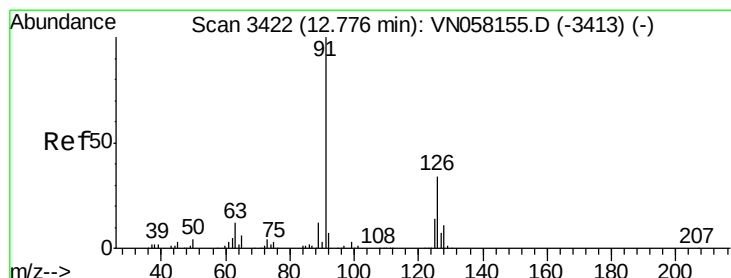
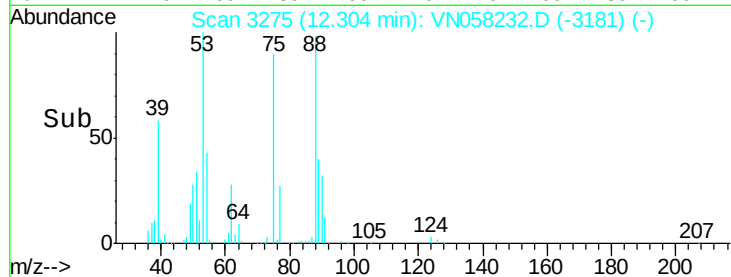
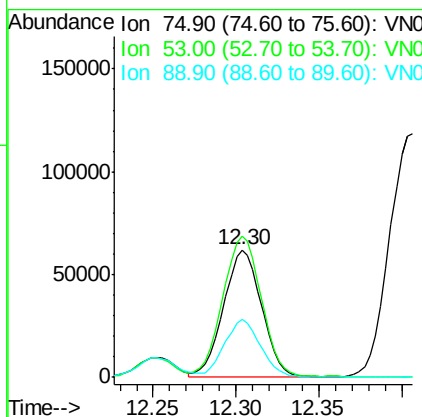
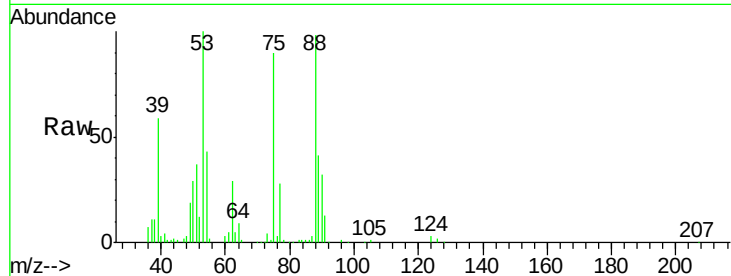
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	99414
Ion	Ratio	Lower	Upper
75	100		
53	110.9	90.1	135.1
89	42.6	36.2	54.2

Manual Integrations
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#82

4-Chlorotoluene

Concen: 52.426 ug/l

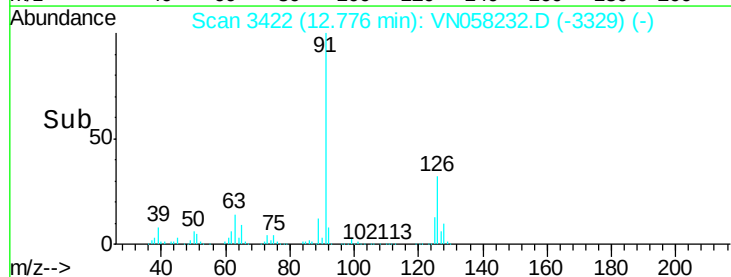
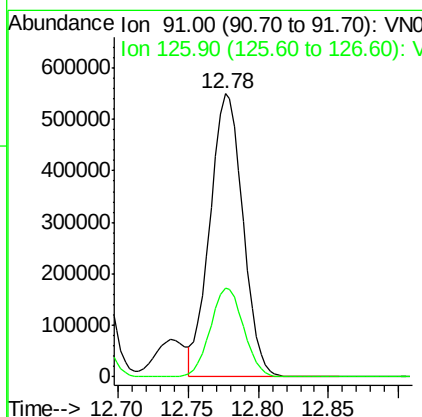
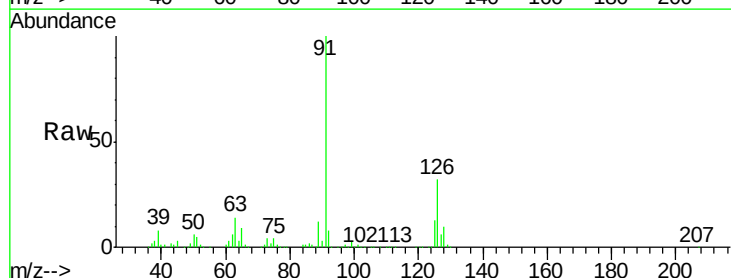
RT: 12.78 min Scan# 3422

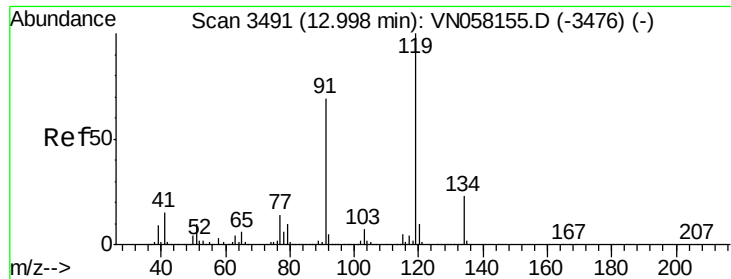
Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Tgt Ion:	91	Resp:	889863
Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.7	47.1





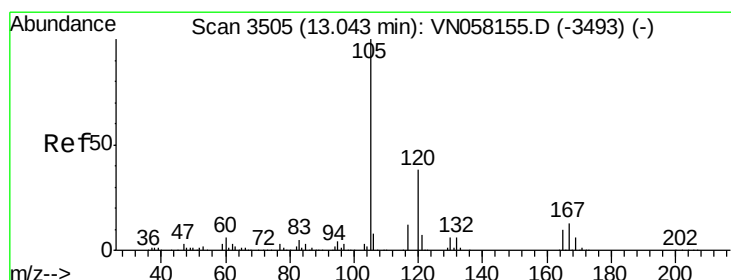
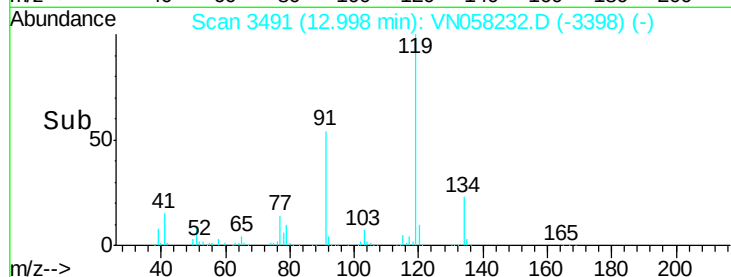
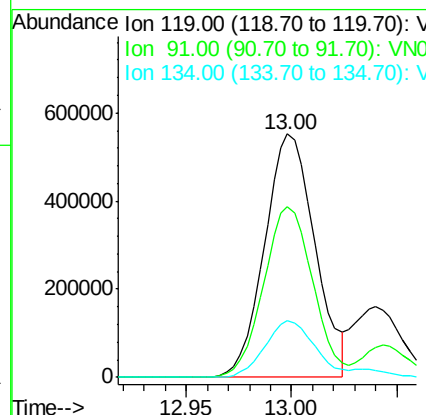
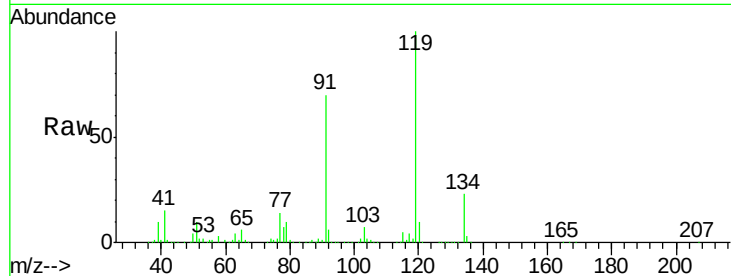
#83
 tert-Butylbenzene
 Concen: 53.534 ug/l
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.6	33.8	101.3
134	23.1	11.6	34.8

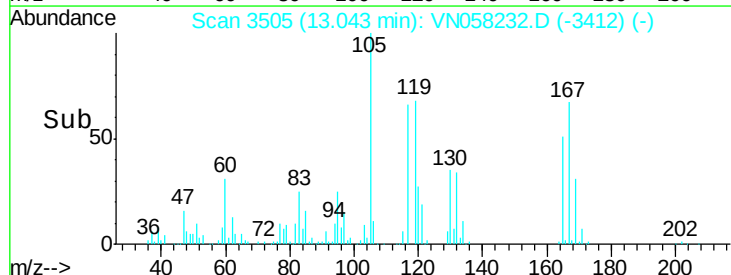
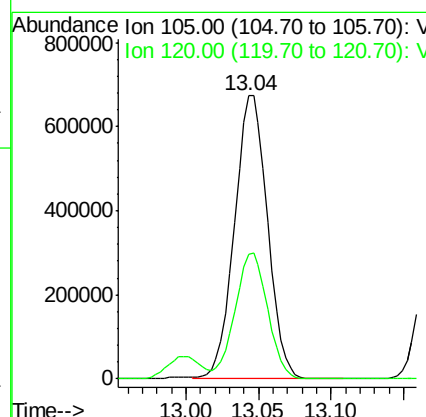
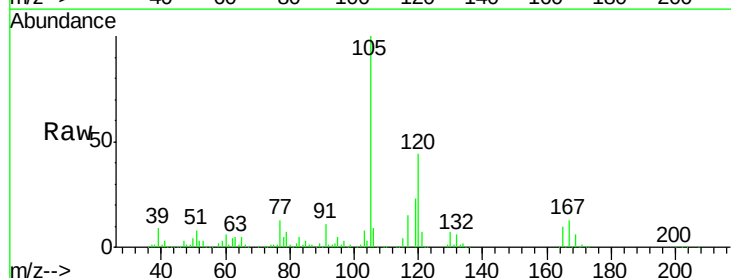
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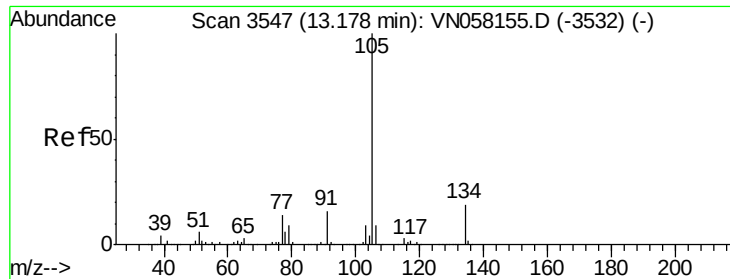
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#84
 1,2,4-Trimethylbenzene
 Concen: 55.332 ug/l
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.5





#85

sec-Butylbenzene

Concen: 55.463 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1243555

Ion Ratio Lower Upper

105 100

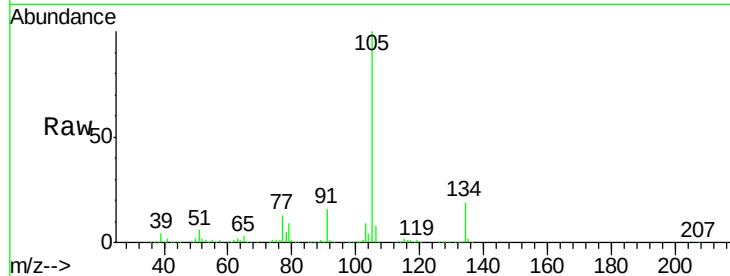
134 18.8 9.5 28.5

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

800000

600000

400000

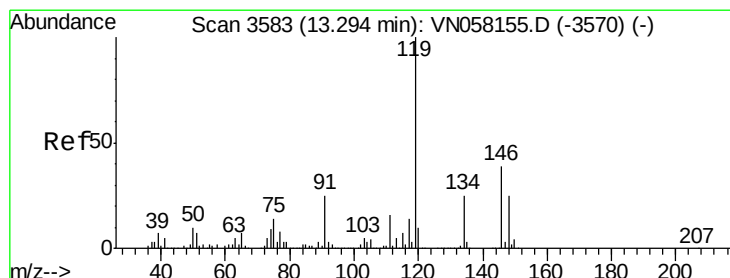
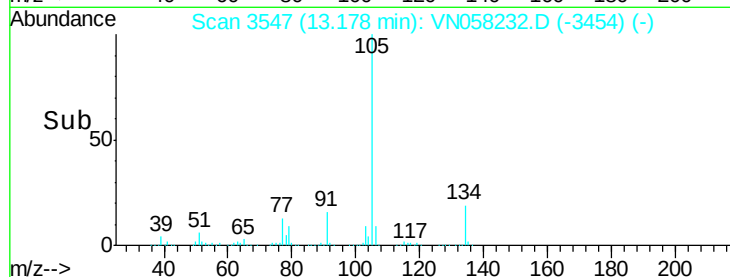
200000

0

13.10

13.20

Time-->



#86

p-Isopropyltoluene

Concen: 55.756 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

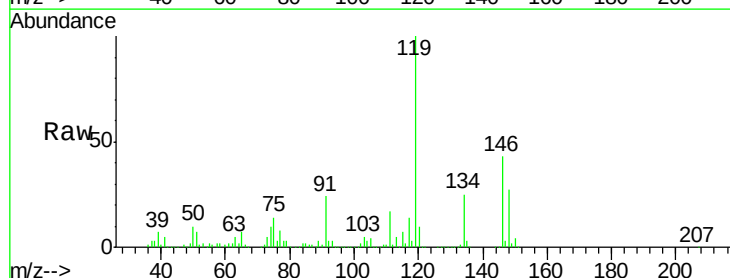
Tgt Ion:119 Resp: 1111390

Ion Ratio Lower Upper

119 100

134 25.4 12.7 38.0

91 24.4 12.3 36.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

1000000

800000

600000

400000

200000

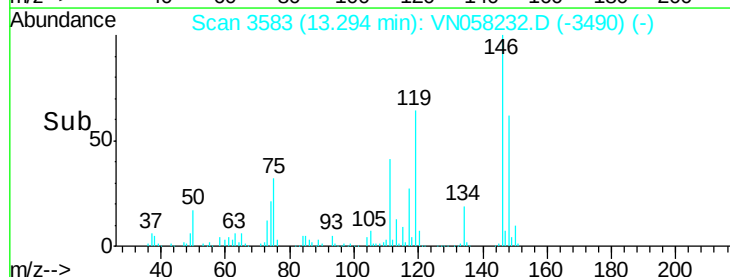
0

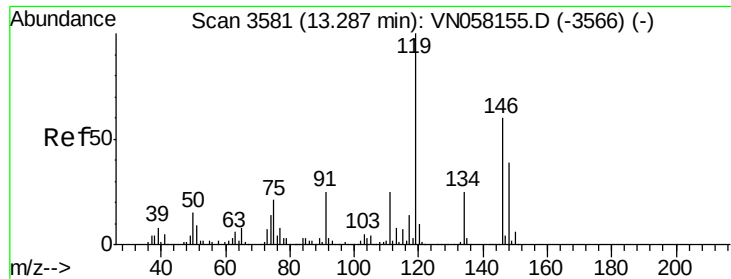
13.25

13.30

13.35

Time-->





#87

1,3-Dichlorobenzene

Concen: 52.938 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

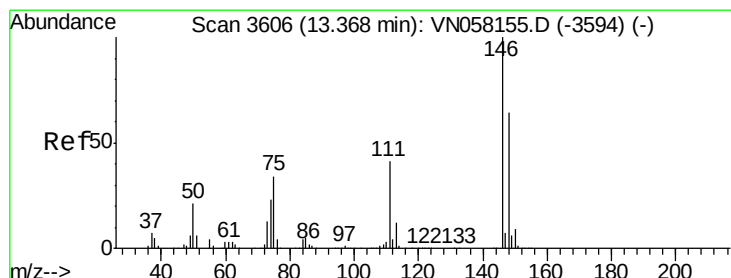
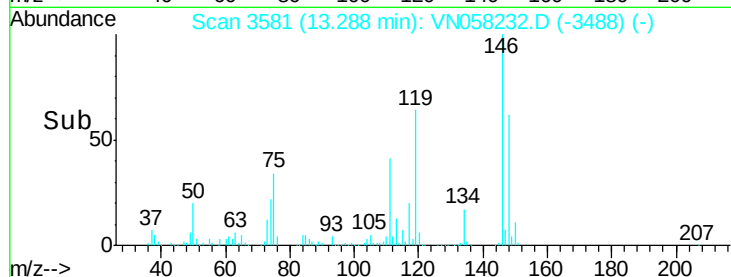
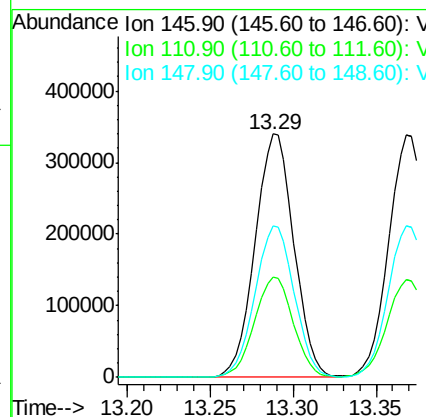
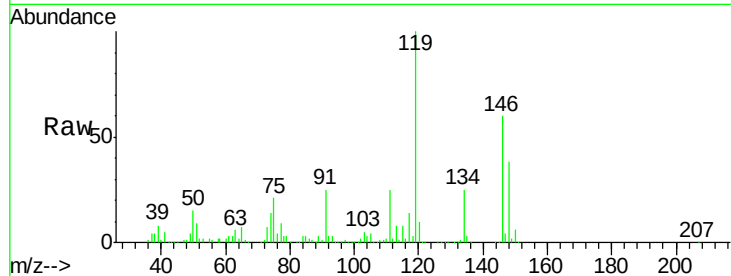
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	553010
Ion Ratio	Lower	Upper	
146	100		
111	41.2	20.9	62.8
148	62.8	32.0	96.2

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#88

1,4-Dichlorobenzene

Concen: 51.878 ug/l

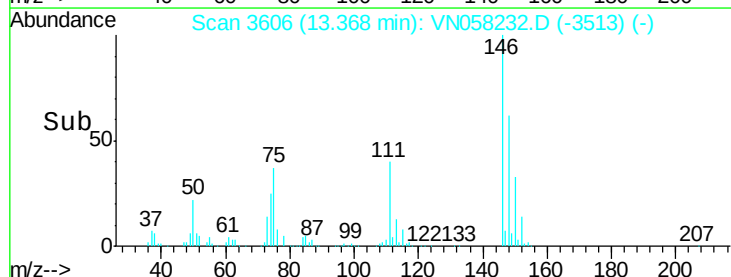
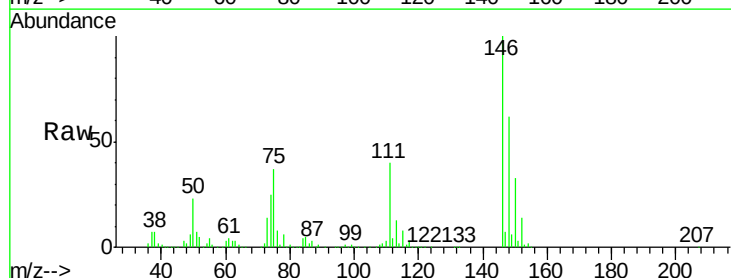
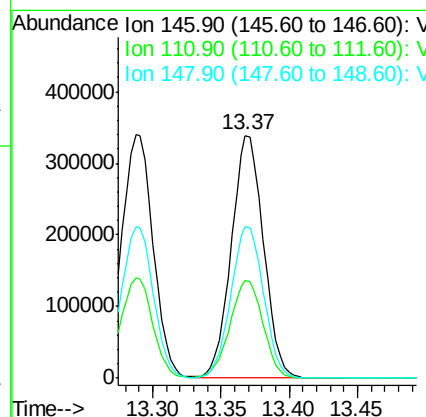
RT: 13.37 min Scan# 3606

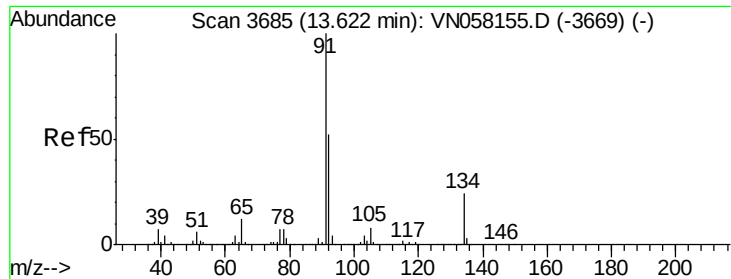
Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Tgt Ion:	146	Resp:	553264
Ion Ratio	Lower	Upper	
146	100		
111	41.2	20.5	61.5
148	63.6	31.9	95.5





#89

n-Butylbenzene

Concen: 53.919 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1018959

Ion Ratio Lower Upper

91 100

92 51.4 25.7 77.0

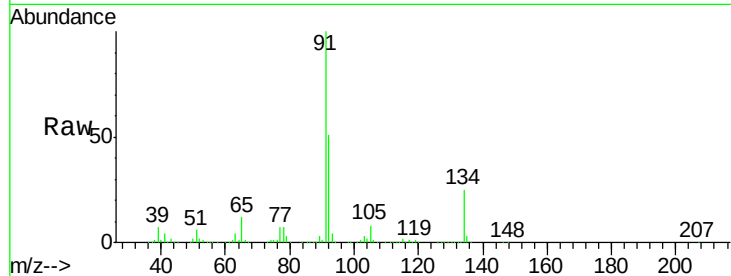
134 24.1 11.8 35.4

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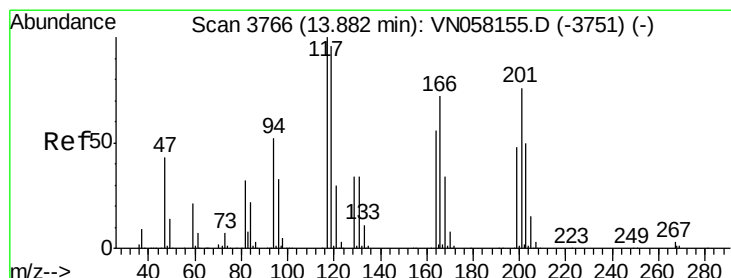
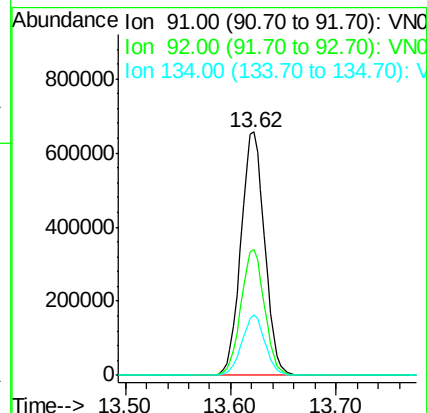
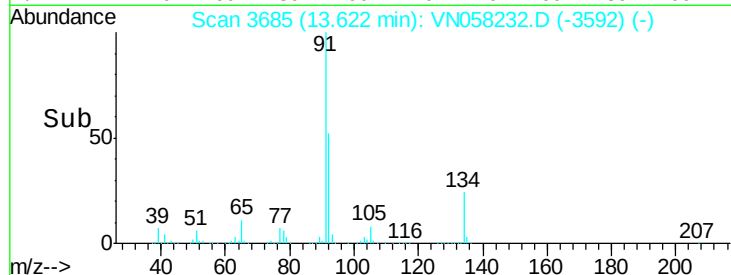


Abundance Ion 91.00 (90.70 to 91.70): VN058155.D (-3669) (-)

Ion 92.00 (91.70 to 92.70): VN058155.D (-3669) (-)

Ion 134.00 (133.70 to 134.70): VN058155.D (-3669) (-)

Time--> 13.50 13.60 13.70



#90

Hexachloroethane

Concen: 49.648 ug/l

RT: 13.88 min Scan# 3765

Delta R.T. -0.00 min

Lab File: VN058232.D

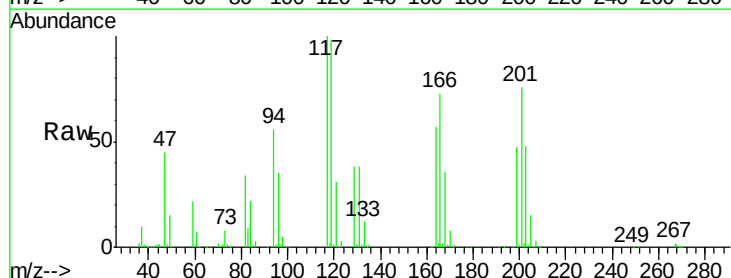
Acq: 20 Sep 2019 1:53

Tgt Ion: 117 Resp: 173467

Ion Ratio Lower Upper

117 100

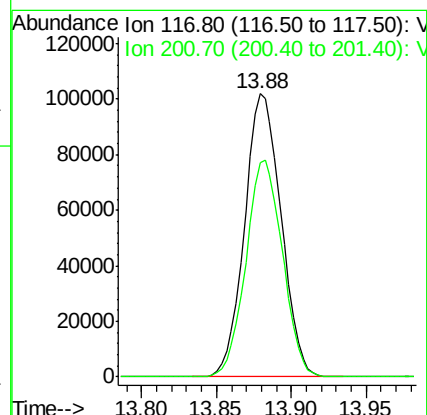
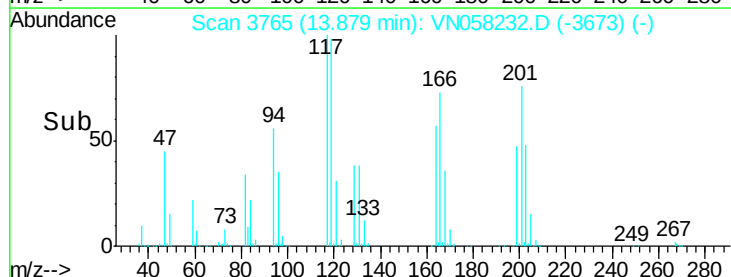
201 76.6 37.5 112.5

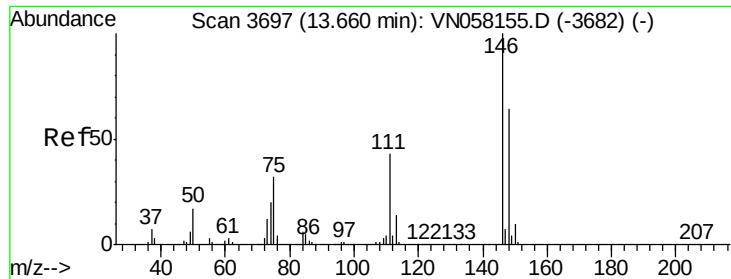


Abundance Ion 116.80 (116.50 to 117.50): VN058155.D (-3751) (-)

Ion 200.70 (200.40 to 201.40): VN058155.D (-3751) (-)

Time--> 13.80 13.85 13.90 13.95





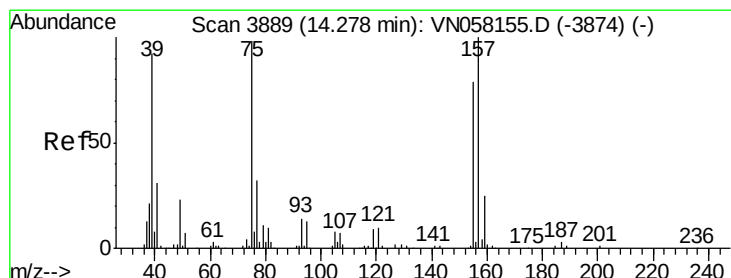
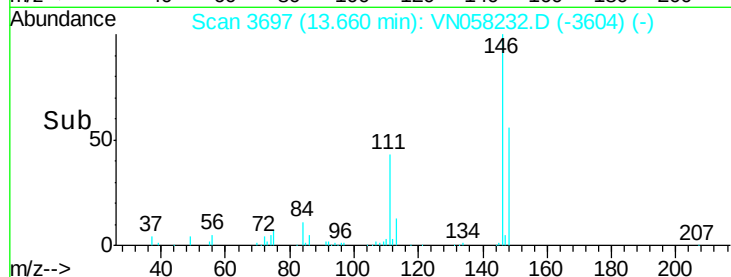
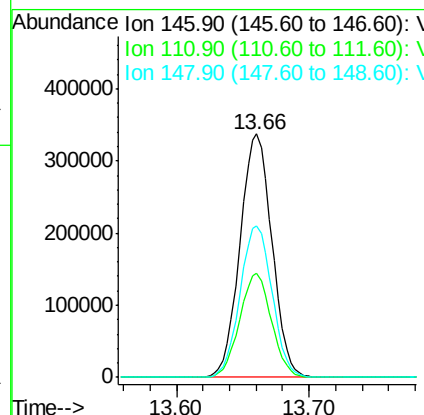
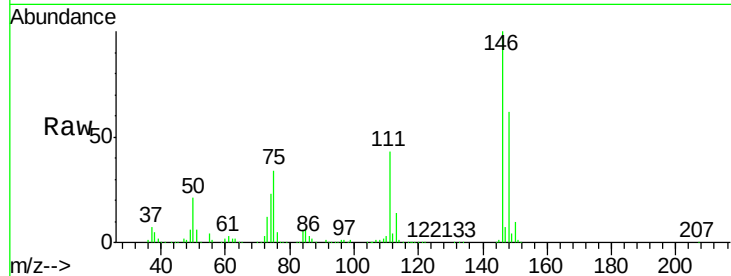
#91
 1,2-Dichlorobenzene
 Concen: 53.797 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.1	63.1
148	62.5	31.8	95.4

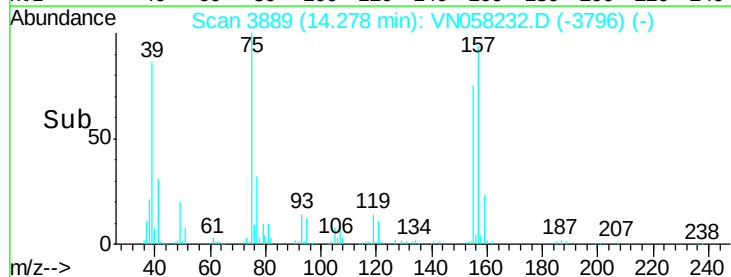
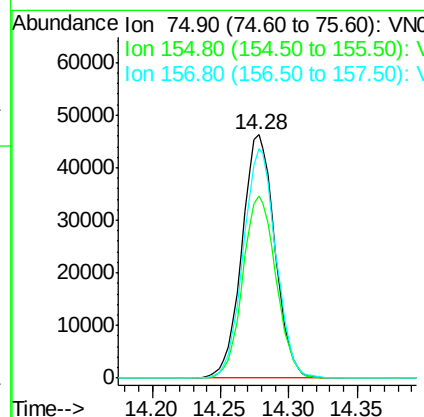
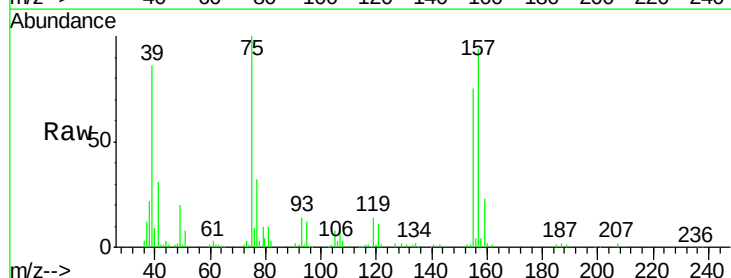
Manual Integrations
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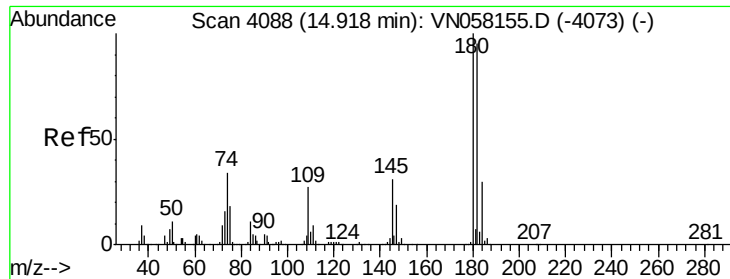
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 56.580 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.2	38.3	114.8
157	93.0	48.0	144.0





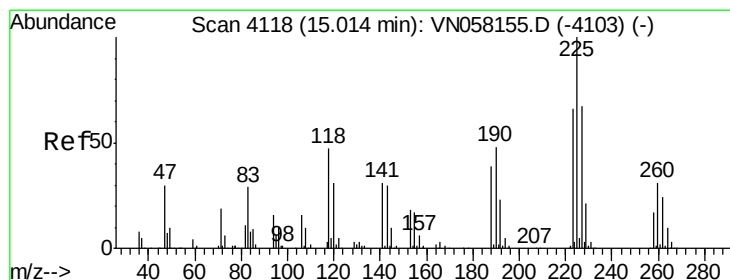
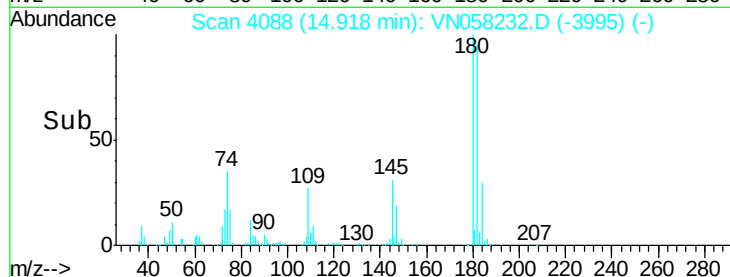
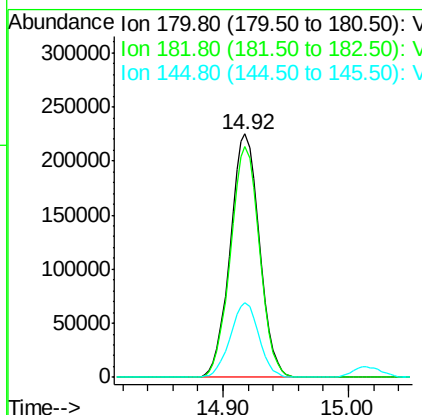
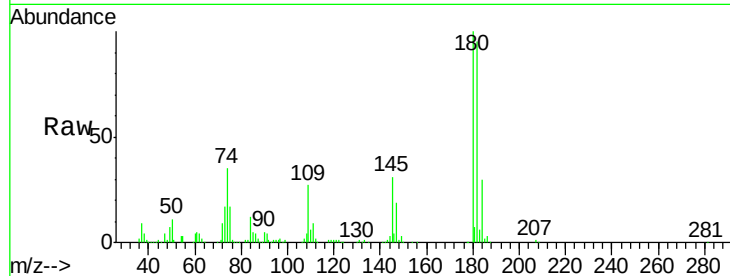
#93
 1,2,4-Trichlorobenzene
 Concen: 54.226 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.5	47.8	143.3	
145	30.1	15.4	46.4	

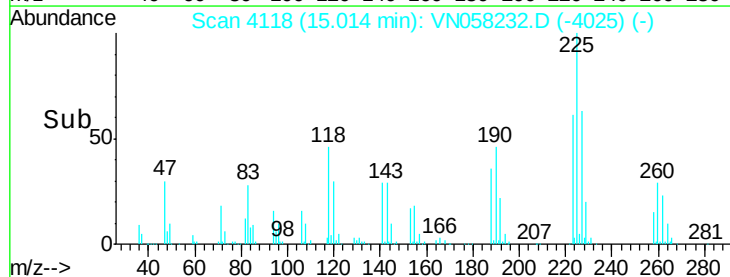
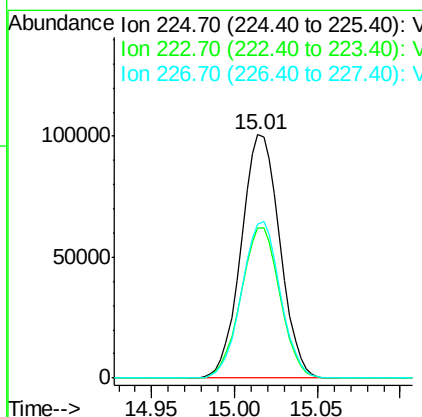
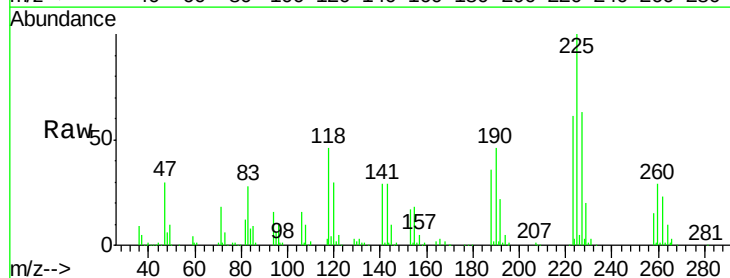
Manual Integrations
 APPROVED

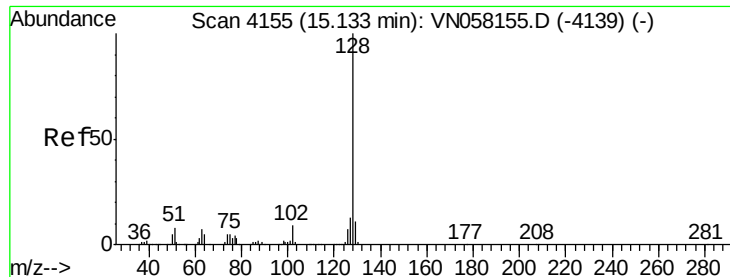
MMDadoda
 9/20/2019 3:37:06 PM



#94
 Hexachlorobutadiene
 Concen: 50.360 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN058232.D
 Acq: 20 Sep 2019 1:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.5	32.6	97.7	
227	64.2	33.0	99.0	





#95

Naphthalene

Concen: 59.343 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:128 Resp: 1029658

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.2

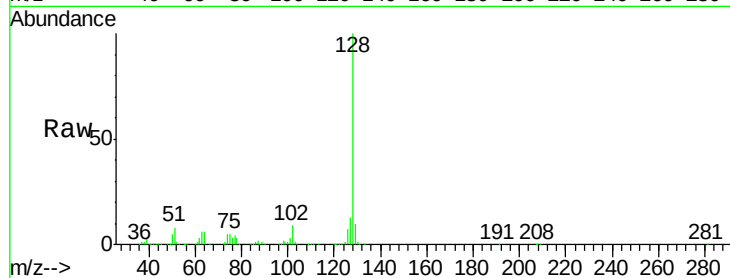
129 10.5 8.6 12.8

Manual Integrations

APPROVED

MMDadoda

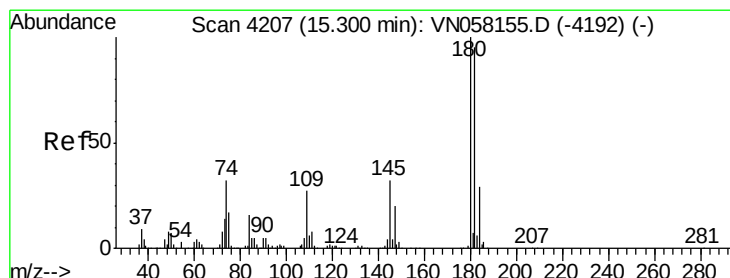
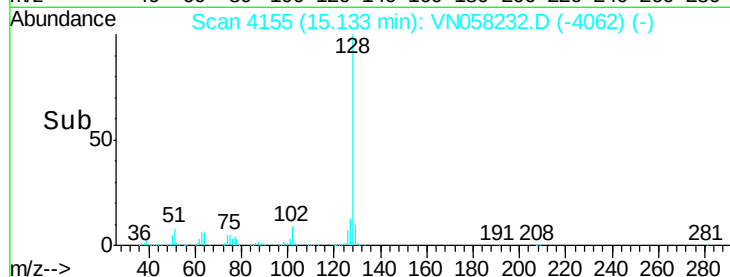
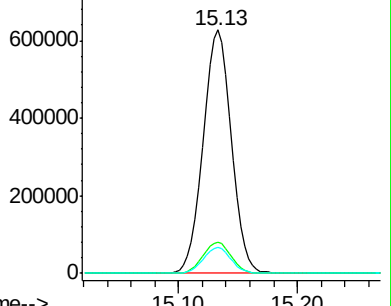
9/20/2019 3:37:06 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 55.396 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN058232.D

Acq: 20 Sep 2019 1:53

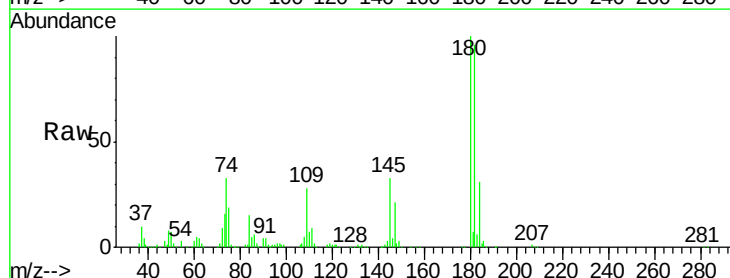
Tgt Ion:180 Resp: 350547

Ion Ratio Lower Upper

180 100

182 94.6 47.4 142.2

145 32.2 16.1 48.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

