

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072219\
 Data File : VN056858.D
 Acq On : 22 Jul 2019 16:57
 Operator : JC/SP
 Sample : VN0722WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 3:01:40 PM

Quant Time: Jul 23 02:28:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 23 01:46:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	352367	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	536582	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	466022	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	182812	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	189158	50.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.66%	
35) Dibromofluoromethane	7.59	113	167061	49.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.24%	
50) Toluene-d8	10.09	98	643551	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	
62) 4-Bromofluorobenzene	12.40	95	201632	47.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.70%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	64131	14.569	ug/l	98
3) Chloromethane	2.06	50	73567	14.959	ug/l	98
4) Vinyl Chloride	2.19	62	70454	15.595	ug/l	99
5) Bromomethane	2.56	94	45871	16.693	ug/l	99
6) Chloroethane	2.70	64	38309	15.474	ug/l	98
7) Trichlorofluoromethane	3.01	101	83475	15.125	ug/l	98
8) Diethyl Ether	3.41	74	30717	14.937	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	52401	15.352	ug/l	98
10) Methyl Iodide	3.94	142	62604	13.141	ug/l	100
11) Tert butyl alcohol	4.81	59	38765	72.605	ug/l	99
12) 1,1-Dichloroethene	3.73	96	51914	15.182	ug/l	99
13) Acrolein	3.60	56	45717	102.909	ug/l	99
14) Allyl chloride	4.32	41	85667	15.238	ug/l	100
15) Acrylonitrile	4.99	53	122872	76.480	ug/l	96
16) Acetone	3.82	43	111199	82.158	ug/l	99
17) Carbon Disulfide	4.04	76	137353	14.717	ug/l	100
18) Methyl Acetate	4.33	43	72752	15.117	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	153671	15.211	ug/l	99
20) Methylene Chloride	4.55	84	60276	14.894	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	56068	15.697	ug/l	99
22) Diisopropyl ether	5.96	45	174006	15.310	ug/l	99
23) Vinyl Acetate	5.90	43	624384	76.053	ug/l	100
24) 1,1-Dichloroethane	5.85	63	101068	15.349	ug/l	100
25) 2-Butanone	6.84	43	157443	79.139	ug/l	98
26) 2,2-Dichloropropane	6.82	77	71971	15.620	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	63119	15.414	ug/l	99
28) Bromochloromethane	7.20	49	54922	18.375	ug/l	99
29) Tetrahydrofuran	7.22	42	105936	77.449	ug/l	100
30) Chloroform	7.37	83	98660	14.946	ug/l	97
31) Cyclohexane	7.65	56	96040	15.033	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	79586	14.903	ug/l	98
36) 1,1-Dichloropropene	7.79	75	74867	15.130	ug/l	99
37) Ethyl Acetate	6.94	43	65835	16.498	ug/l	99
38) Carbon Tetrachloride	7.77	117	69168	14.683	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072219\
 Data File : VN056858.D
 Acq On : 22 Jul 2019 16:57
 Operator : JC/SP
 Sample : VN0722WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBS01

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 3:01:40 PM

Quant Time: Jul 23 02:28:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072219W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 23 01:46:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	90998	14.696	ug/l	99
40) Benzene	8.04	78	232939	15.155	ug/l	98
41) Methacrylonitrile	7.18	41	28719	14.495	ug/l	94
42) 1,2-Dichloroethane	8.12	62	75931	15.810	ug/l	100
43) Isopropyl Acetate	8.17	43	103685	15.114	ug/l	99
44) Trichloroethene	8.84	130	62655	15.220	ug/l	97
45) 1,2-Dichloropropane	9.12	63	61684	14.897	ug/l	100
46) Dibromomethane	9.21	93	39402	15.417	ug/l	99
47) Bromodichloromethane	9.40	83	71522	14.880	ug/l	99
48) Methyl methacrylate	9.20	41	51314	14.953	ug/l	98
49) 1,4-Dioxane	9.20	88	21302	316.454	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	312358	76.356	ug/l	99
52) Toluene	10.15	92	141534	15.302	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	72977	14.794	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	87198	14.994	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	53340	14.529	ug/l	95
56) Ethyl methacrylate	10.43	69	76717	15.053	ug/l	99
57) 1,3-Dichloropropane	10.71	76	93732	15.425	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	183175	80.296	ug/l	99
59) 2-Hexanone	10.75	43	218901	77.306	ug/l	99
60) Dibromochloromethane	10.90	129	54660	14.838	ug/l	99
61) 1,2-Dibromoethane	11.00	107	57032	15.642	ug/l	97
64) Tetrachloroethene	10.63	164	61950	15.496	ug/l	99
65) Chlorobenzene	11.43	112	146441	15.121	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	53260	14.588	ug/l	98
67) Ethyl Benzene	11.51	91	253807	15.181	ug/l	98
68) m/p-Xylenes	11.62	106	189505	30.278	ug/l	99
69) o-Xylene	11.94	106	94516	15.469	ug/l	100
70) Styrene	11.96	104	150400	14.401	ug/l	99
71) Bromoform	12.12	173	36402	14.388	ug/l #	99
73) Isopropylbenzene	12.25	105	242899	14.884	ug/l	100
74) N-amyl acetate	12.07	43	79633	14.836	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	72224	15.720	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	60807m	16.050	ug/l	
77) Bromobenzene	12.52	156	62873	15.767	ug/l	98
78) n-propylbenzene	12.59	91	262773	15.638	ug/l	98
79) 2-Chlorotoluene	12.67	91	161119	15.237	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	205920	15.116	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	17861	15.099	ug/l	89
82) 4-Chlorotoluene	12.77	91	151743	15.179	ug/l	99
83) tert-Butylbenzene	12.99	119	180506	15.430	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	202703	16.005	ug/l	98
85) sec-Butylbenzene	13.17	105	234795	15.776	ug/l	100
86) p-Isopropyltoluene	13.29	119	207042	15.615	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	97181	15.204	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	95028	15.303	ug/l	98
89) n-Butylbenzene	13.61	91	158404	15.539	ug/l	99
90) Hexachloroethane	13.87	117	33619	14.523	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	98286	15.298	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.26	75	10330	14.768	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072219\
Data File : VN056858.D
Acq On : 22 Jul 2019 16:57
Operator : JC/SP
Sample : VN0722WBS01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

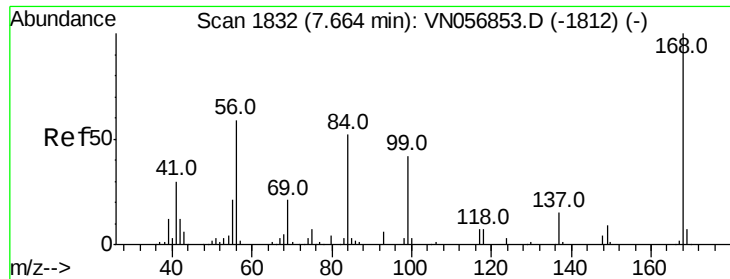
Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:01:40 PM

Quant Time: Jul 23 02:28:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072219W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 23 01:46:34 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	37279	14.034	ug/l	100
94) Hexachlorobutadiene	15.00	225	39282	16.593	ug/l	98
95) Naphthalene	15.13	128	91758	13.192	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	43182	14.112	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion:168 Resp: 352367

Ion Ratio Lower Upper

168 100

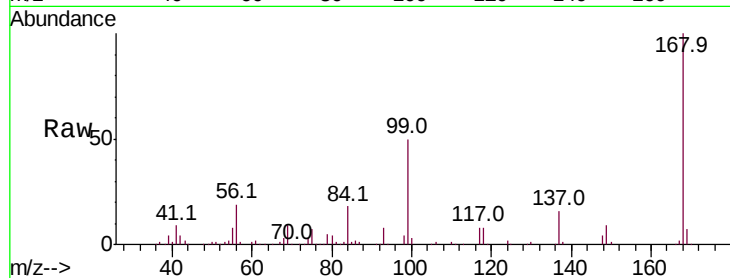
99 49.4 40.9 61.3

Manual Integrations

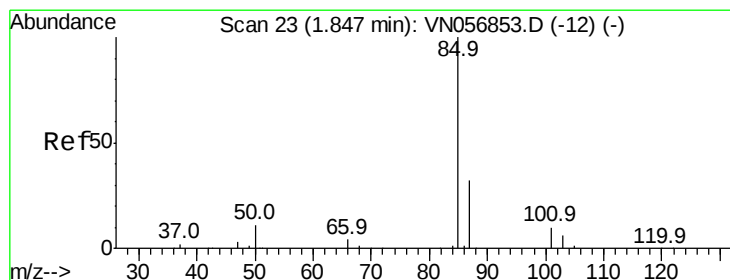
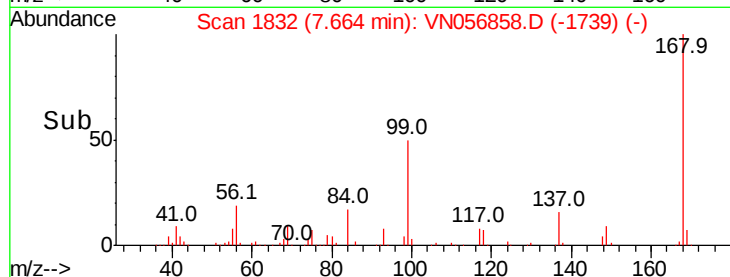
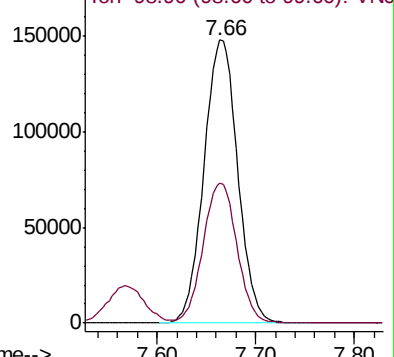
APPROVED

MMDadoda

7/25/2019 3:01:40 PM



Abundance Ion 167.90 (167.60 to 168.60): VN056853.D (-1812) (-)



#2

Dichlorodifluoromethane

Concen: 14.569 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN056858.D

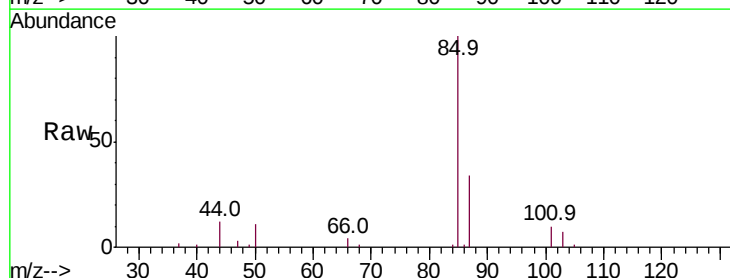
Acq: 22 Jul 2019 16:57

Tgt Ion: 85 Resp: 64131

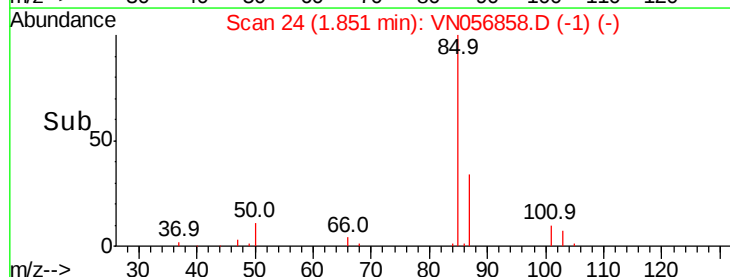
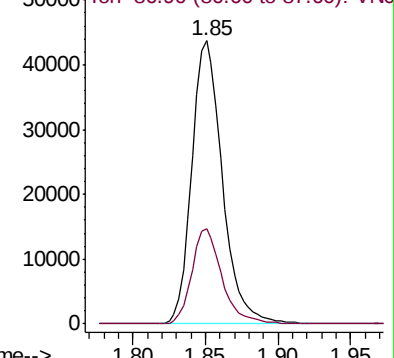
Ion Ratio Lower Upper

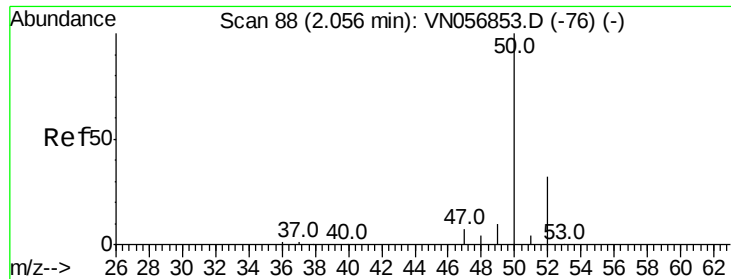
85 100

87 33.6 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN056853.D (-12) (-)





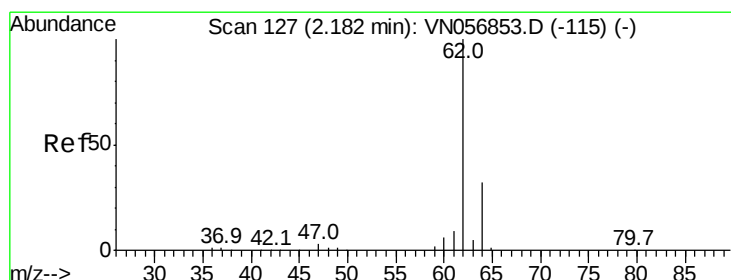
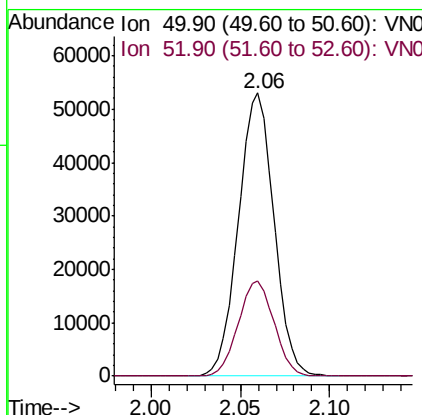
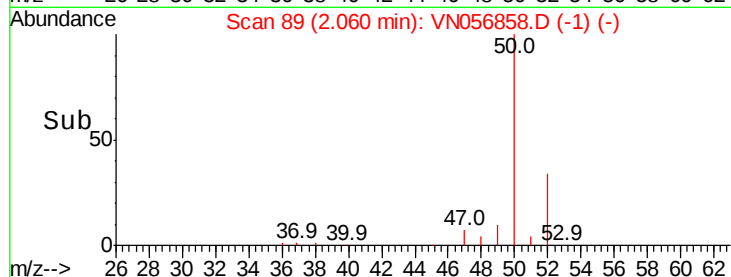
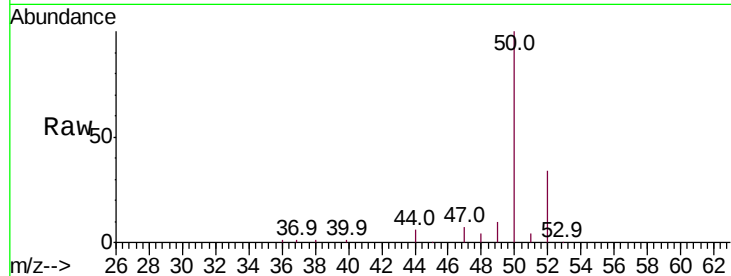
#3
Chloromethane
Concen: 14.959 ug/l
RT: 2.06 min Scan# 89
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	Ratio	Lower	Upper
50	100		
52	33.6	25.9	38.9

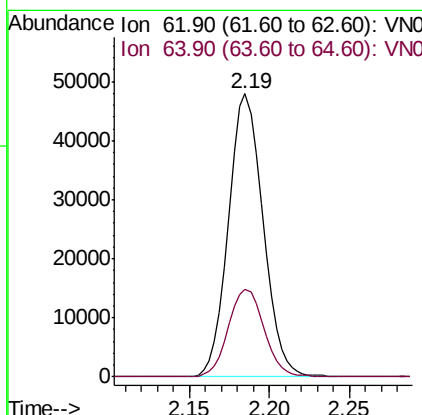
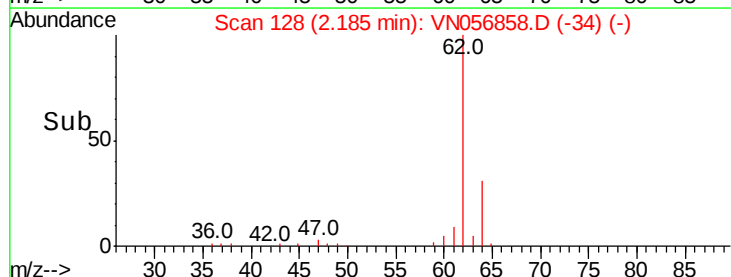
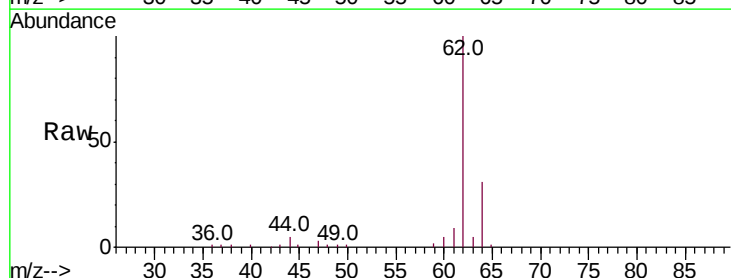
Manual Integrations
APPROVED

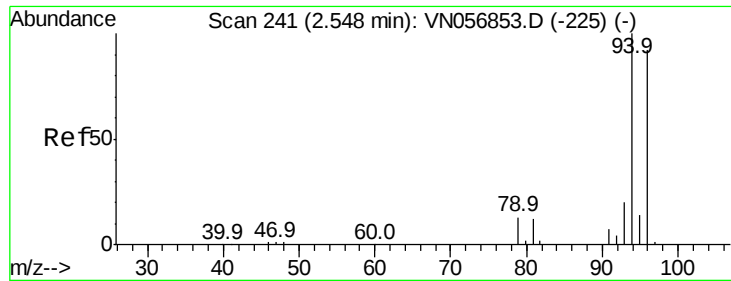
MMDadoda
7/25/2019 3:01:40 PM



#4
Vinyl Chloride
Concen: 15.595 ug/l
RT: 2.19 min Scan# 128
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.1	25.4	38.2





#5

Bromomethane

Concen: 16.693 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.01 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion: 94 Resp: 45871

Ion Ratio Lower Upper

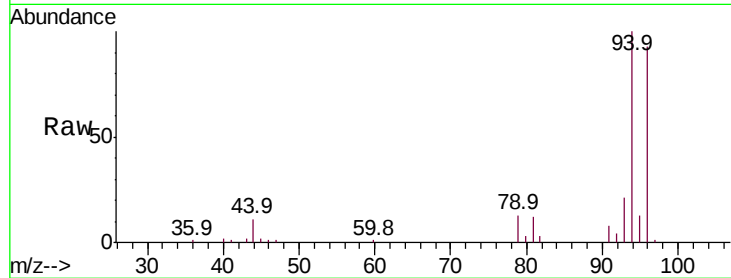
94 100

96 93.2 73.6 110.4

Manual Integrations
APPROVED

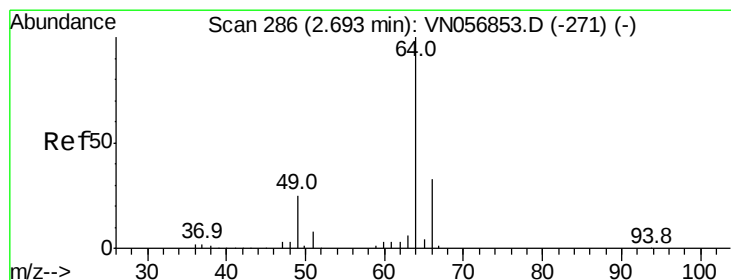
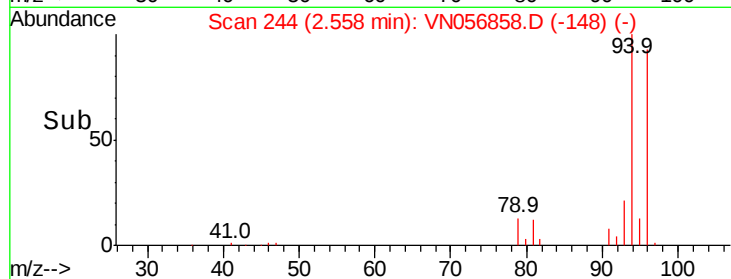
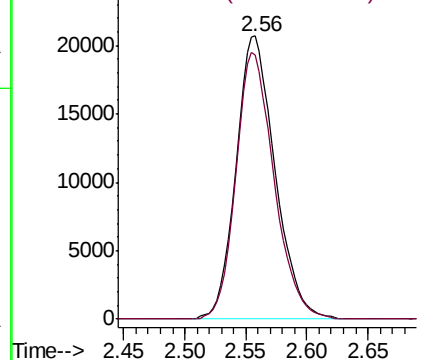
MMDadoda

7/25/2019 3:01:40 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 15.474 ug/l

RT: 2.70 min Scan# 288

Delta R.T. 0.01 min

Lab File: VN056858.D

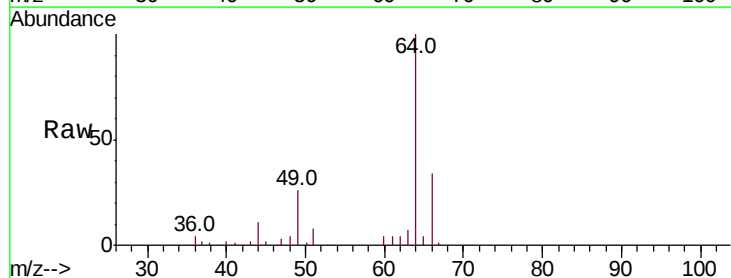
Acq: 22 Jul 2019 16:57

Tgt Ion: 64 Resp: 38309

Ion Ratio Lower Upper

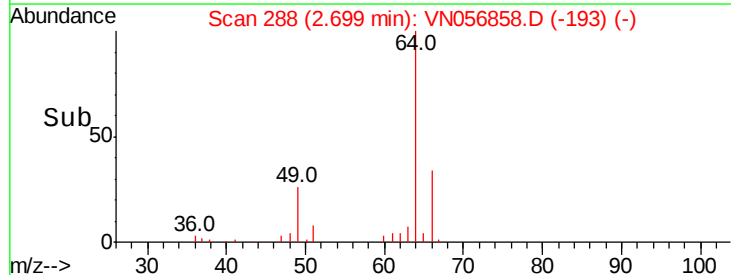
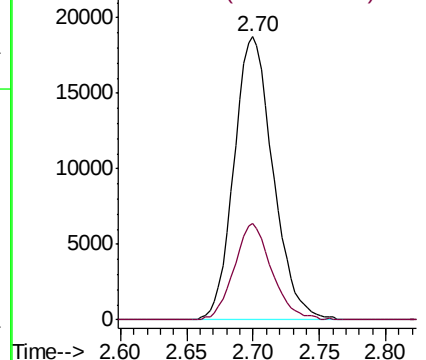
64 100

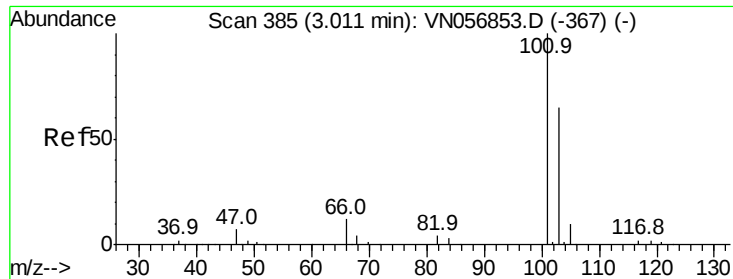
66 34.3 26.4 39.6



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

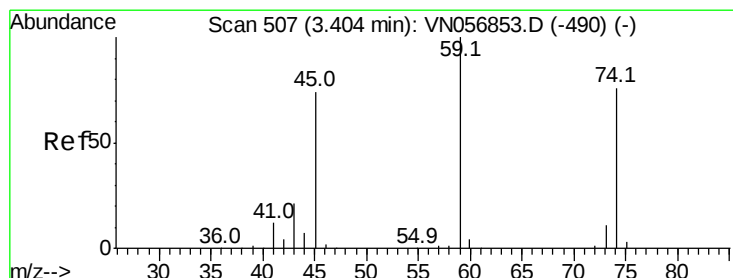
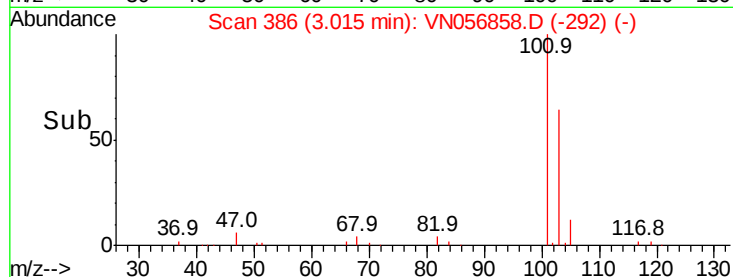
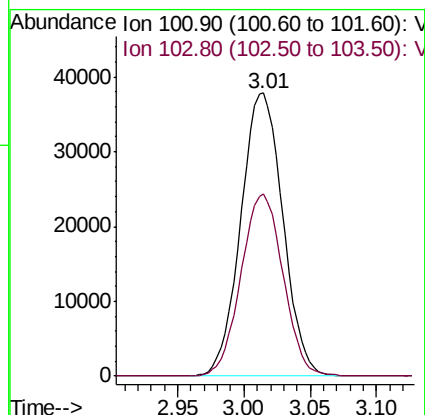
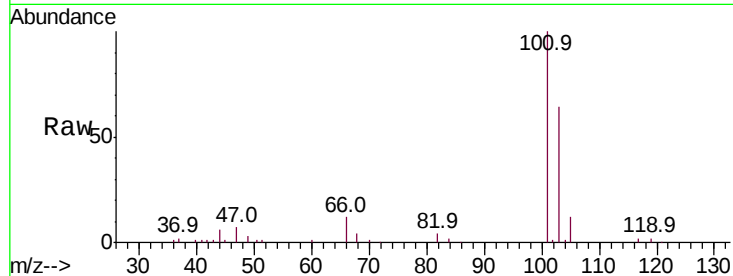
Trichlorofluoromethane
Concen: 15.125 ug/l
RT: 3.01 min Scan# 386
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion:101 Resp: 83475
Ion Ratio Lower Upper
101 100
103 64.2 52.3 78.5

Manual Integrations
APPROVED

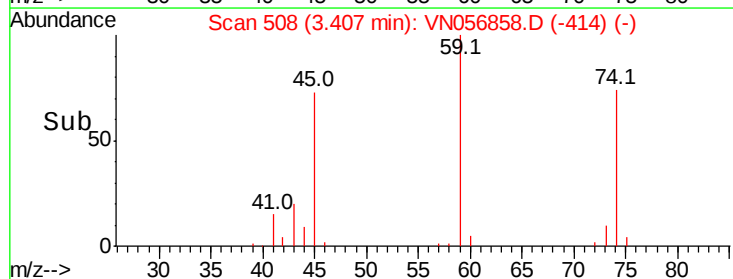
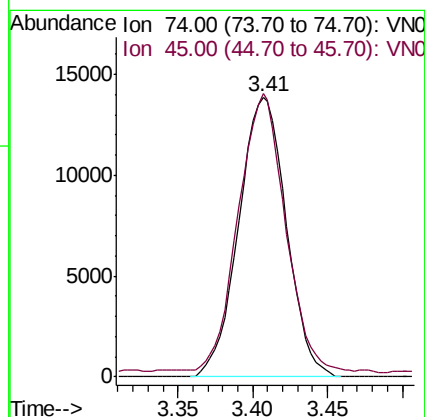
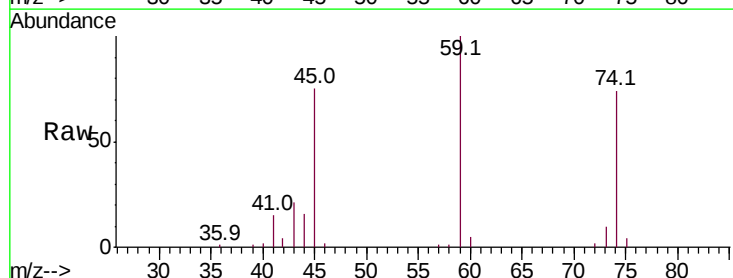
MMDadoda
7/25/2019 3:01:40 PM

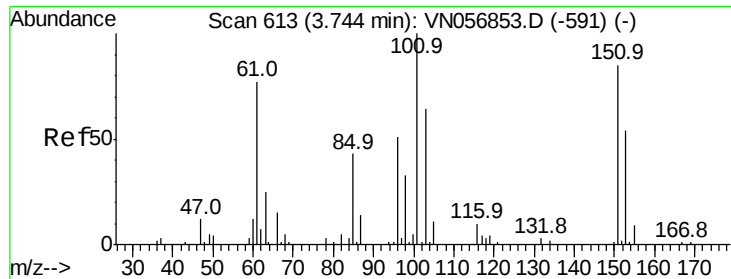


#8

Diethyl Ether
Concen: 14.937 ug/l
RT: 3.41 min Scan# 508
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion: 74 Resp: 30717
Ion Ratio Lower Upper
74 100
45 97.1 49.2 147.6





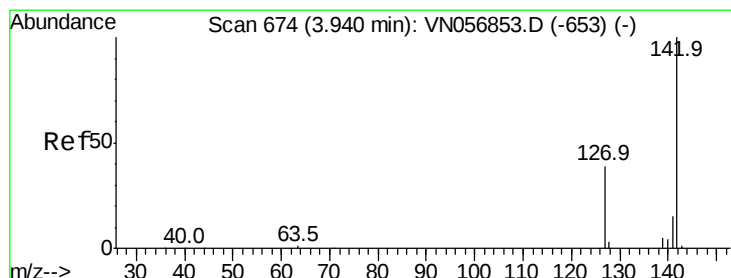
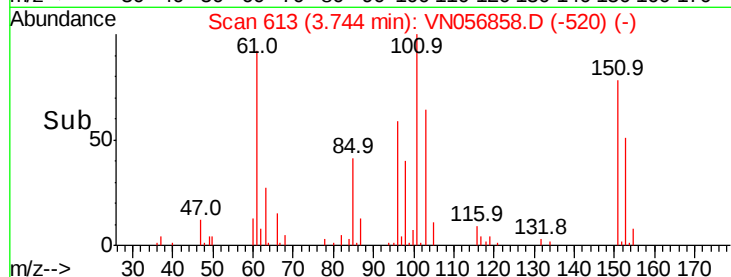
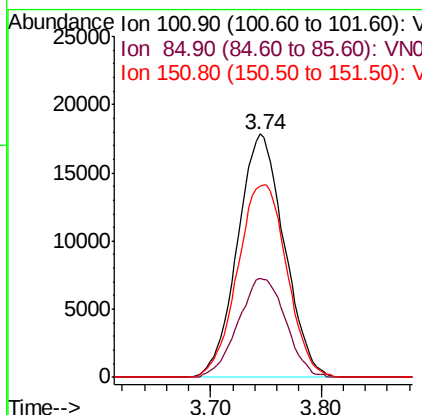
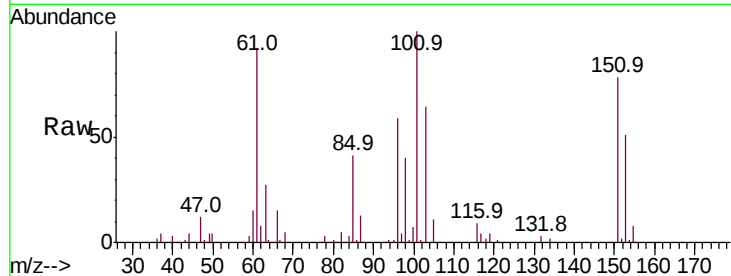
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 15.352 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
85	41.3	33.7	50.5
151	83.5	68.1	102.1

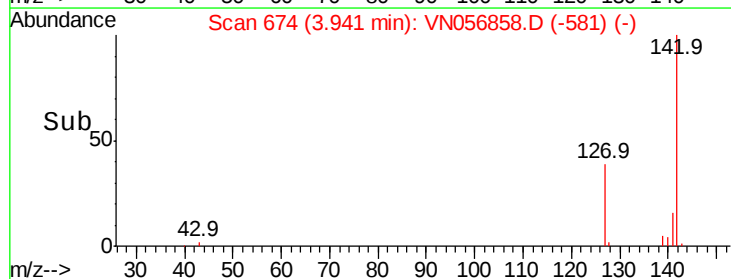
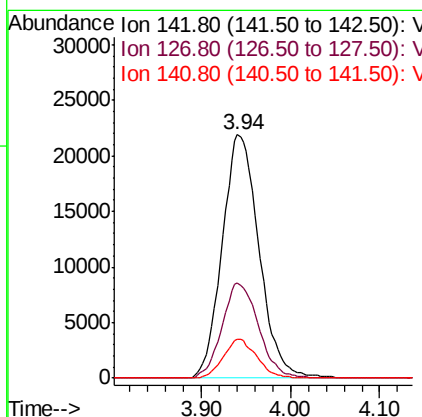
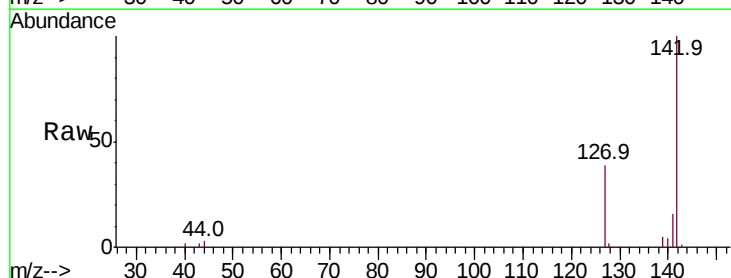
Manual Integrations
 APPROVED

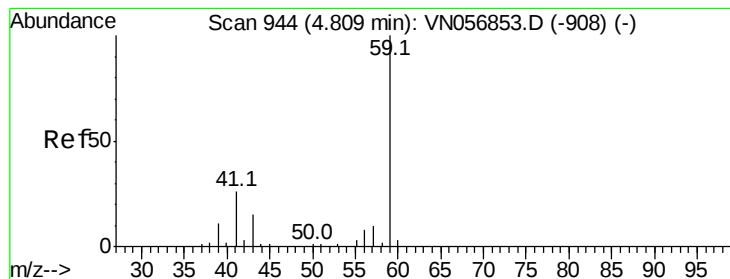
MMDadoda
 7/25/2019 3:01:40 PM



#10
 Methyl Iodide
 Concen: 13.141 ug/l
 RT: 3.94 min Scan# 674
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
142	100		
127	38.7	31.2	46.8
141	14.5	11.4	17.2





#11

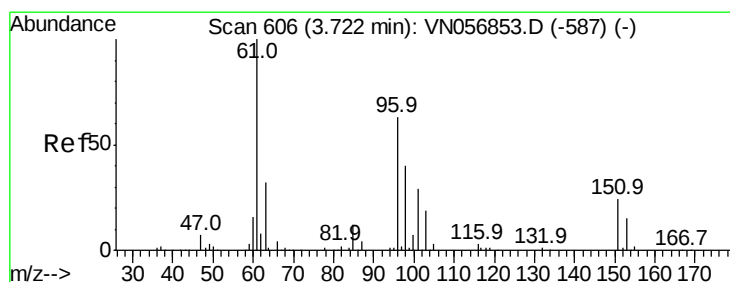
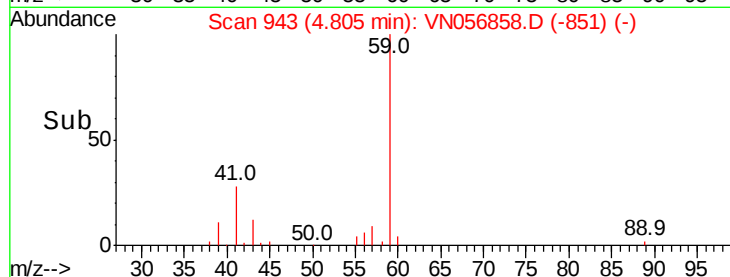
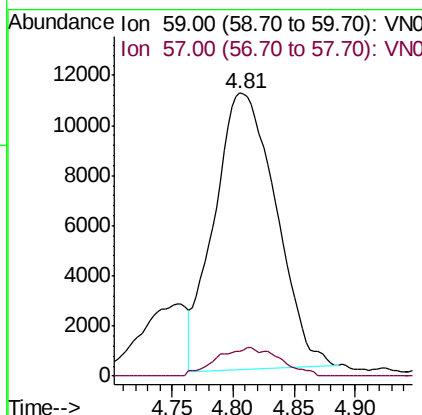
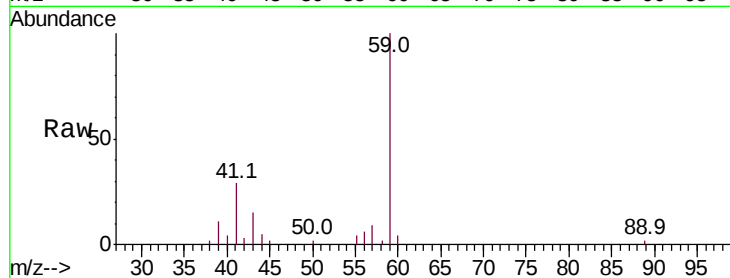
Tert butyl alcohol
Concen: 72.605 ug/l
RT: 4.81 min Scan# 943
Delta R.T. -0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	59	Ratio	100	Resp:	38765
Ion	59	100		Lower	Upper
	57	10.7		8.2	12.4

Manual Integrations
APPROVED

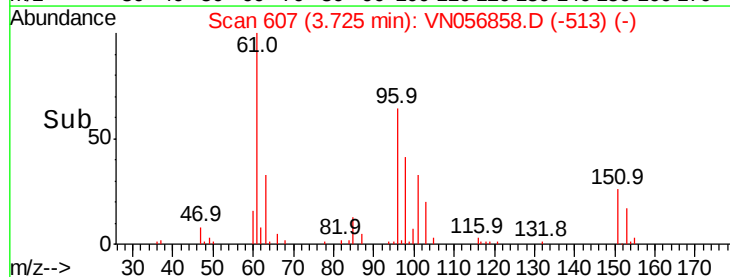
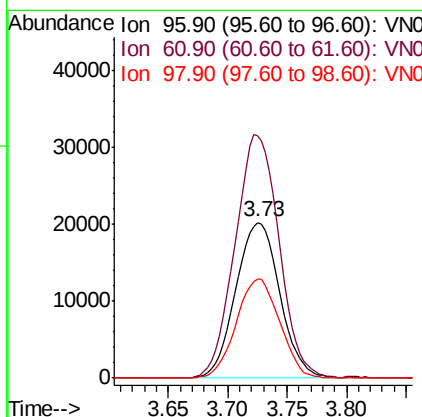
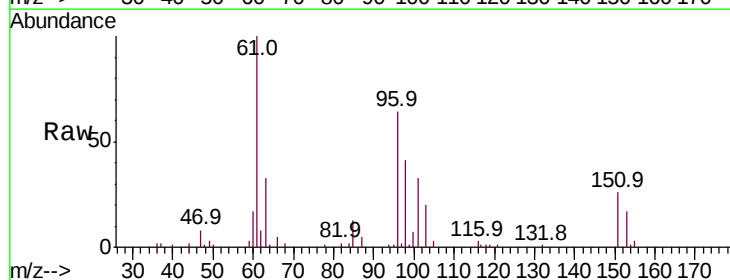
MMDadoda
7/25/2019 3:01:40 PM

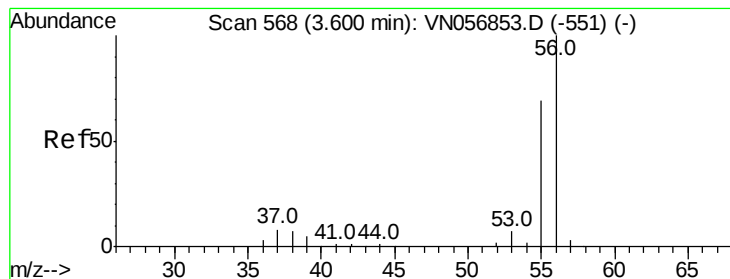


#12

1,1-Dichloroethene
Concen: 15.182 ug/l
RT: 3.73 min Scan# 607
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion	96	Ratio	100	Resp:	51914
Ion	96	100		Lower	Upper
	61	156.4		126.3	189.5
	98	64.0		51.0	76.4





#13

Acrolein

Concen: 102.909 ug/l

RT: 3.60 min Scan# 569

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion: 56 Resp: 45717

Ion Ratio Lower Upper

56 100

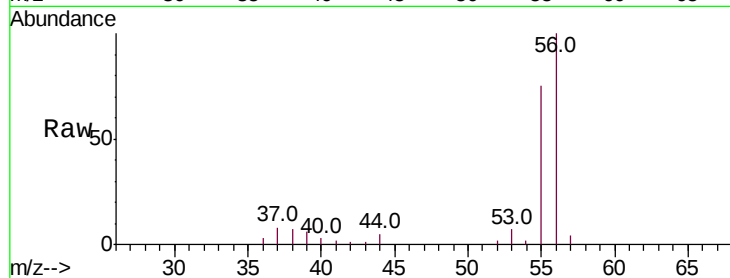
55 71.2 56.2 84.4

Manual Integrations

APPROVED

MMDadoda

7/25/2019 3:01:40 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

20000

15000

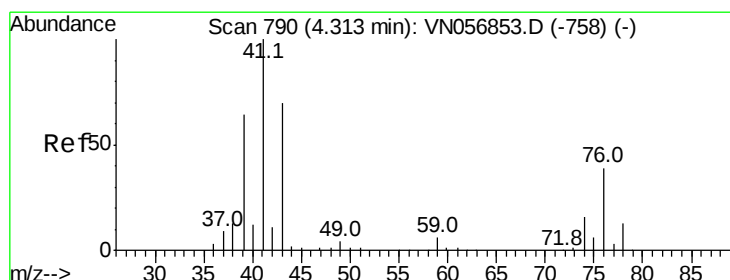
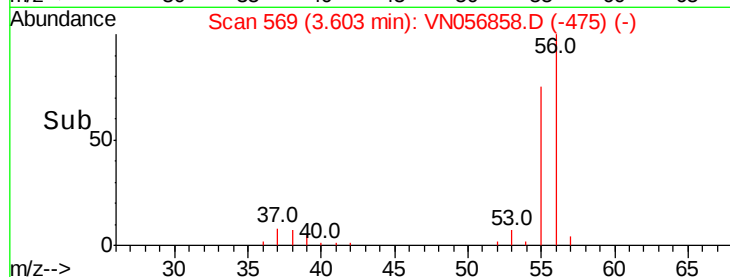
10000

5000

0

Time-->

3.50 3.55 3.60 3.65 3.70



#14

Allyl chloride

Concen: 15.238 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

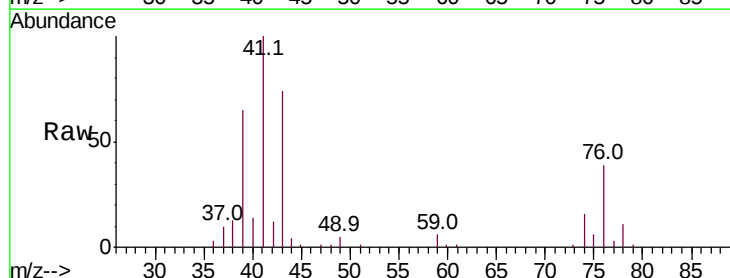
Tgt Ion: 41 Resp: 85667

Ion Ratio Lower Upper

41 100

39 59.9 47.8 71.6

76 34.7 27.9 41.9



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

30000

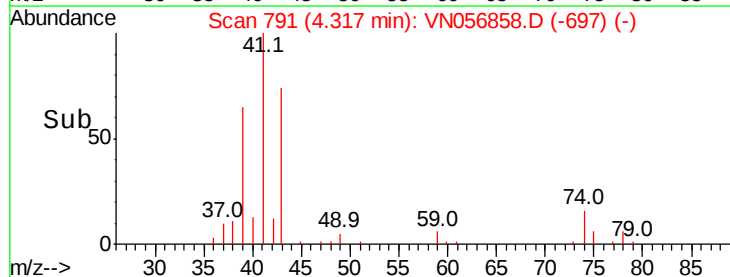
20000

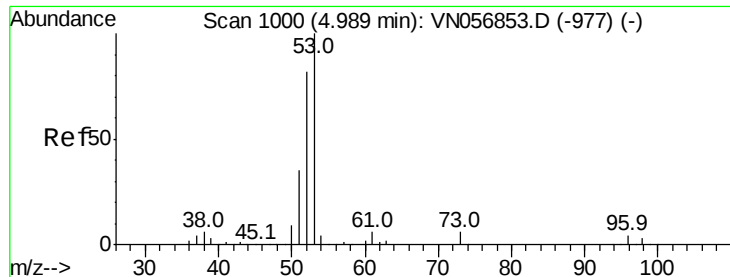
10000

0

Time-->

4.20 4.30 4.40





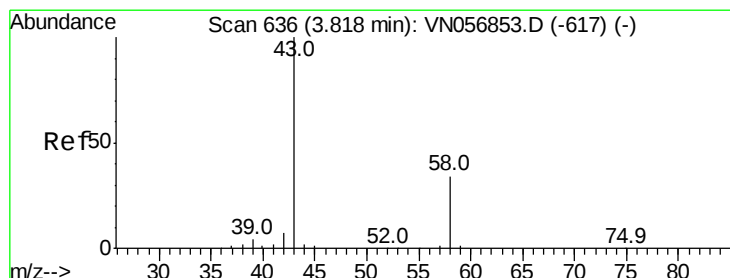
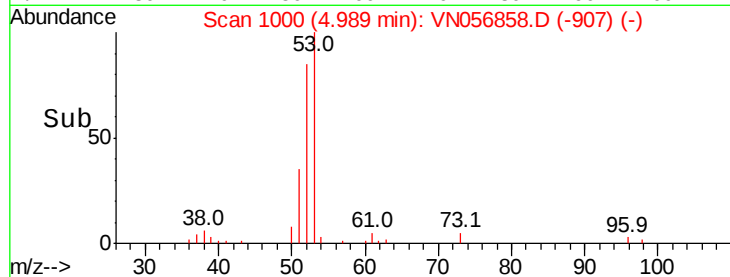
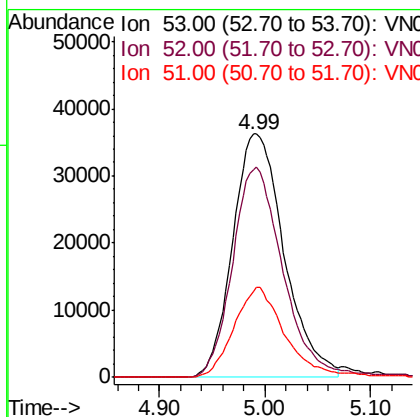
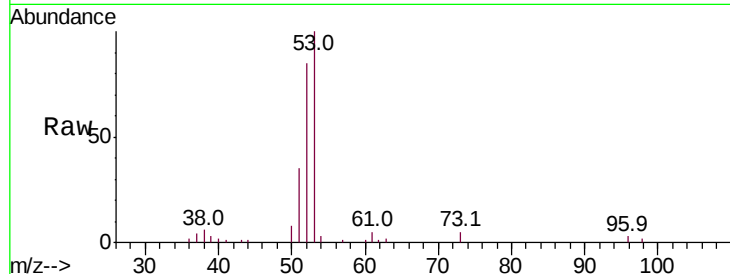
#15
 Acrylonitrile
 Concen: 76.480 ug/l
 RT: 4.99 min Scan# 1000
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	84.7	65.0	97.6
51	36.9	28.2	42.2

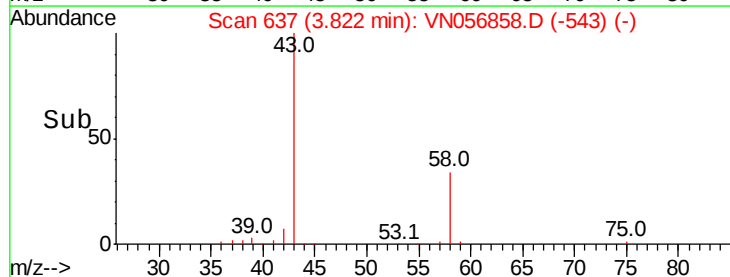
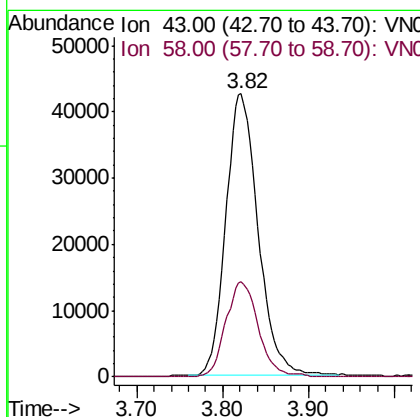
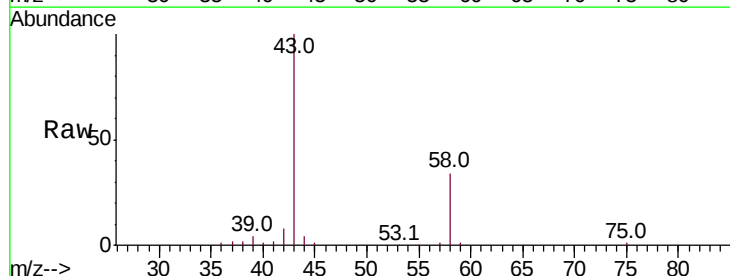
Manual Integrations
 APPROVED

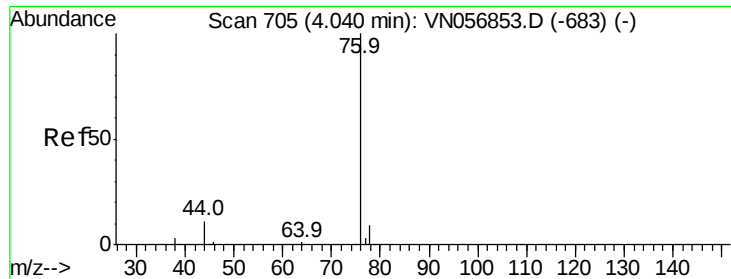
MMDadoda
 7/25/2019 3:01:40 PM



#16
 Acetone
 Concen: 82.158 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.7	27.3	40.9





#17

Carbon Disulfide

Concen: 14.717 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion: 76 Resp: 137353

Ion Ratio Lower Upper

76 100

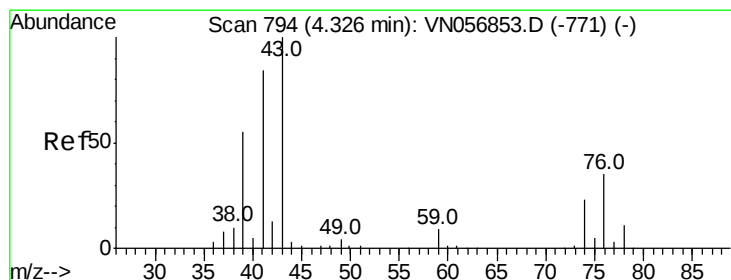
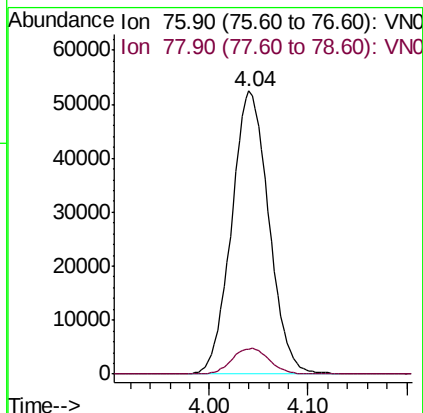
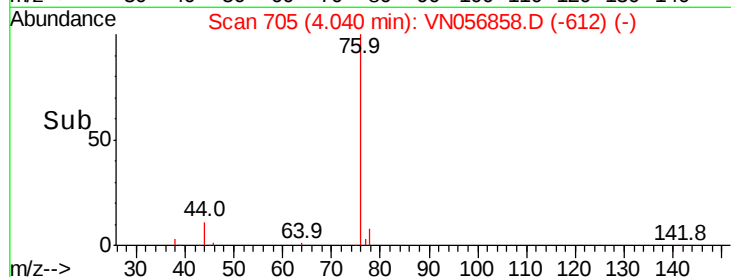
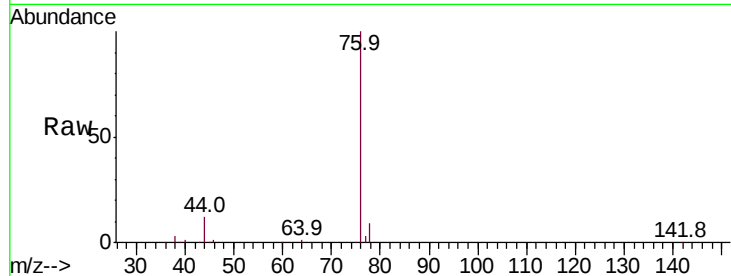
78 8.8 7.2 10.8

Manual Integrations

APPROVED

MMDadoda

7/25/2019 3:01:40 PM



#18

Methyl Acetate

Concen: 15.117 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN056858.D

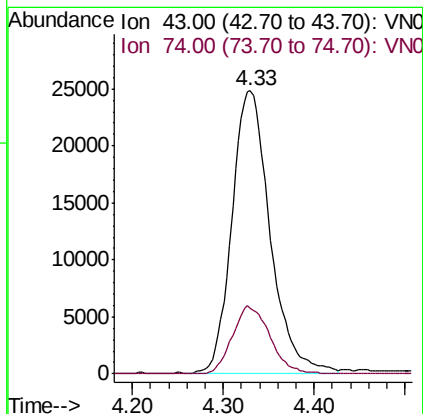
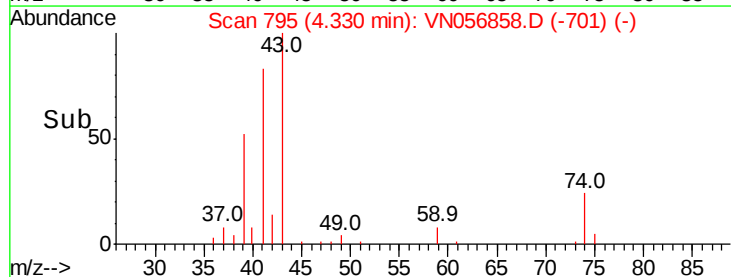
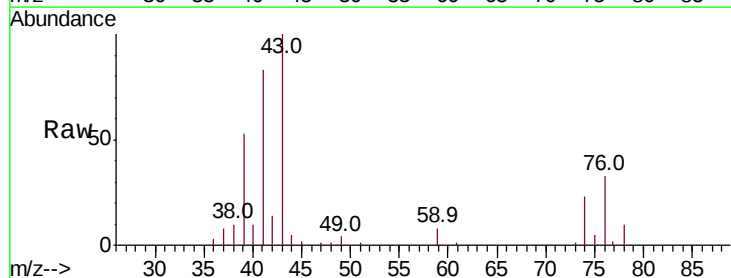
Acq: 22 Jul 2019 16:57

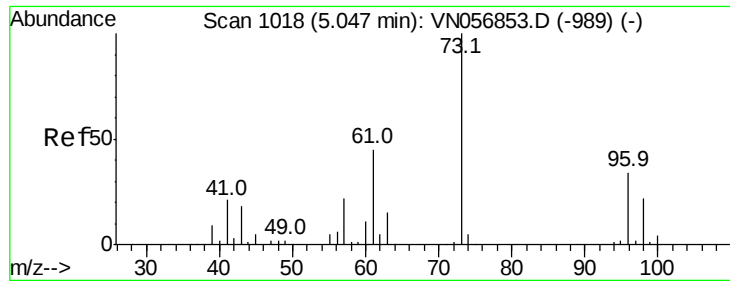
Tgt Ion: 43 Resp: 72752

Ion Ratio Lower Upper

43 100

74 23.3 19.0 28.4





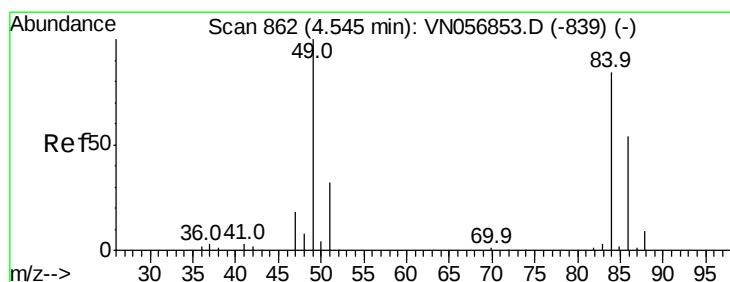
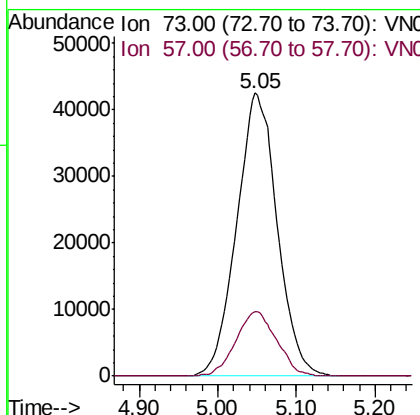
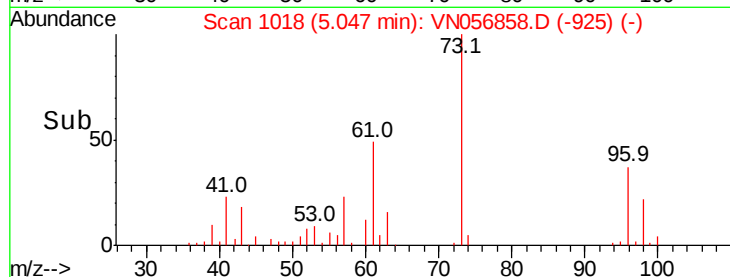
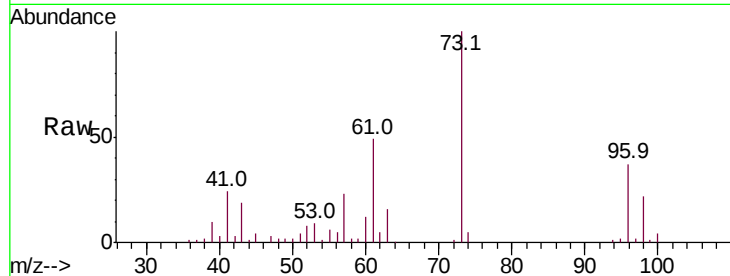
#19
Methvl tert-butvl Ether
Concen: 15.211 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion: 73 Resp: 153671
Ion Ratio Lower Upper
73 100
57 22.9 18.0 27.0

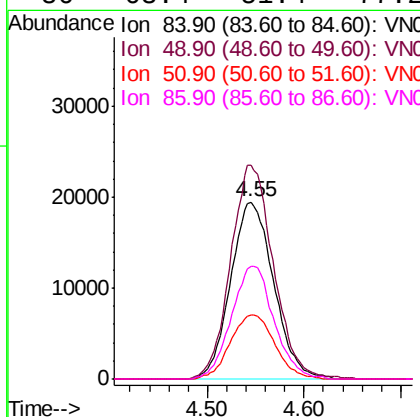
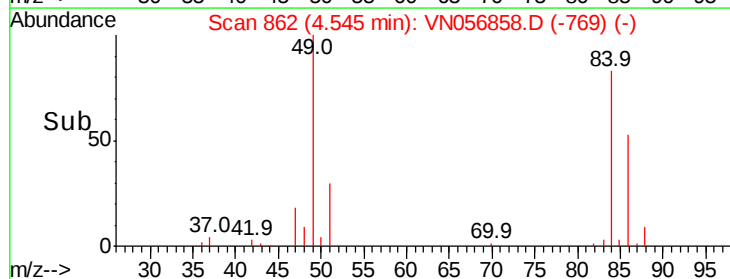
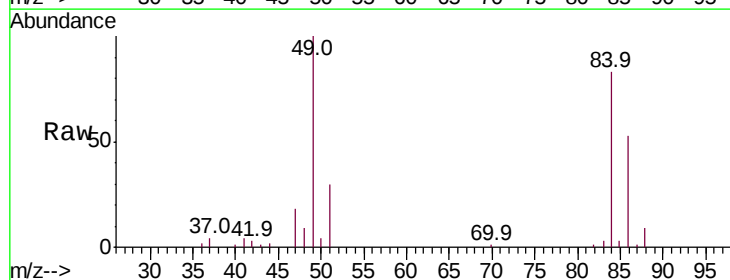
Manual Integrations
APPROVED

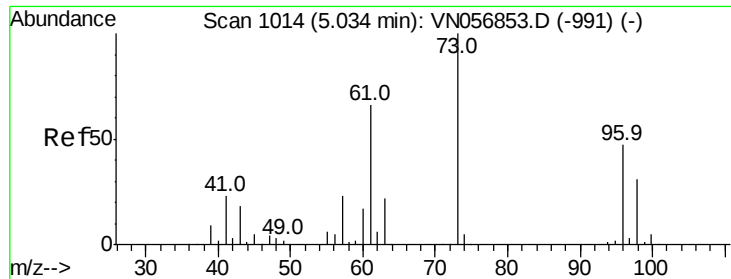
MMDadoda
7/25/2019 3:01:40 PM



#20
Methylene Chloride
Concen: 14.894 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion: 84 Resp: 60276
Ion Ratio Lower Upper
84 100
49 120.6 94.9 142.3
51 36.3 29.9 44.9
86 63.4 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 15.697 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion: 96 Resp: 56068

Ion Ratio Lower Upper

96 100

61 142.0 112.8 169.2

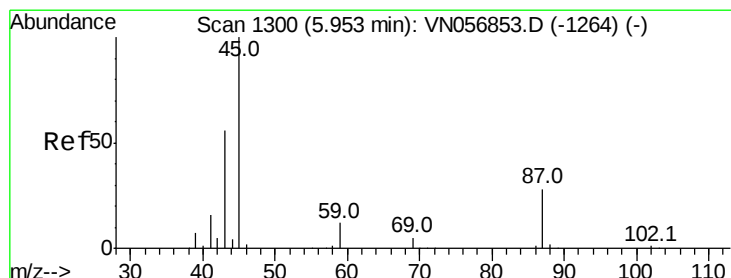
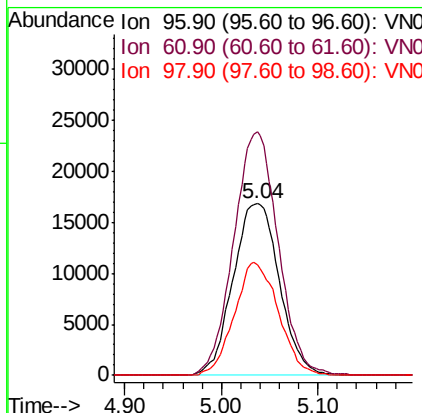
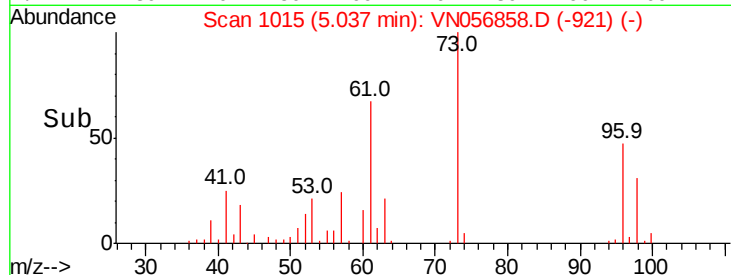
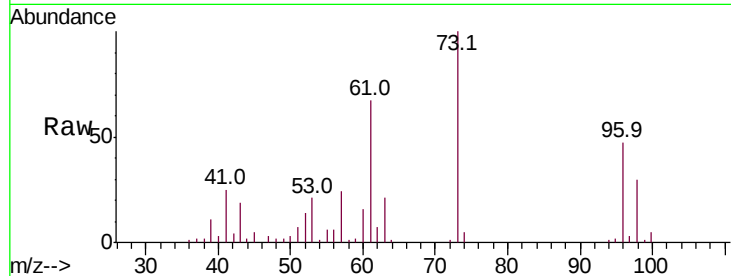
98 64.8 53.3 79.9

Manual Integrations

APPROVED

MMDadoda

7/25/2019 3:01:40 PM



#22

Diisopropyl ether

Concen: 15.310 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Tgt Ion: 45 Resp: 174006

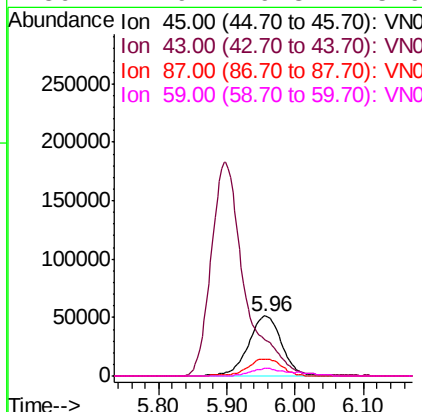
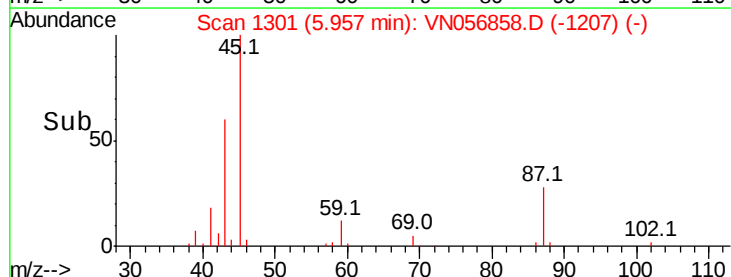
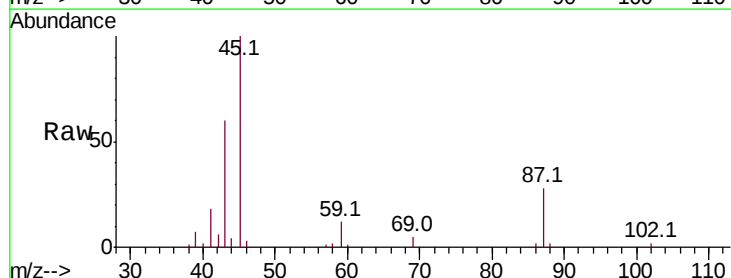
Ion Ratio Lower Upper

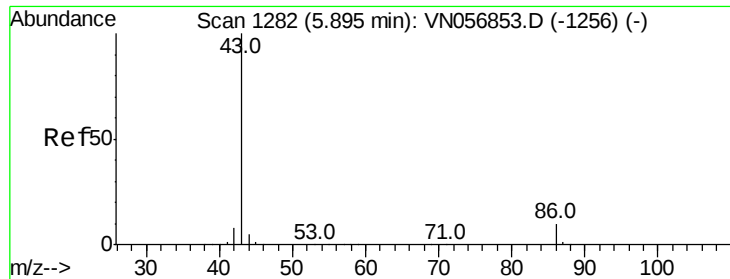
45 100

43 57.8 45.5 68.3

87 28.3 22.7 34.1

59 11.9 9.3 13.9





#23

Vinyl Acetate

Concen: 76.053 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN056858.D

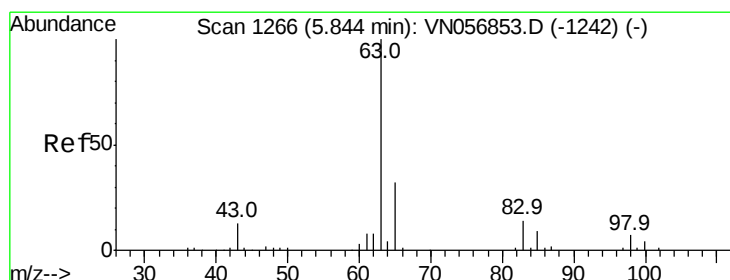
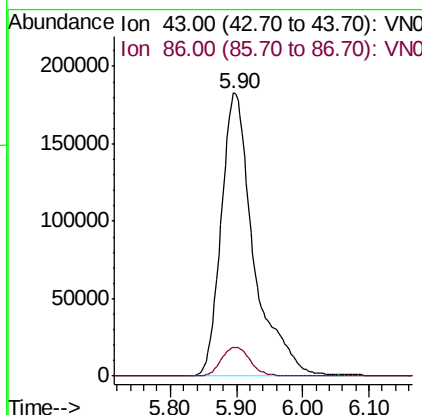
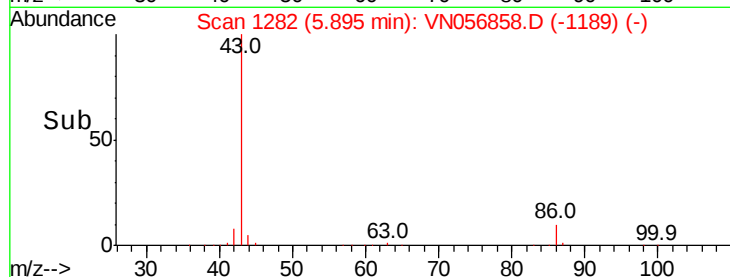
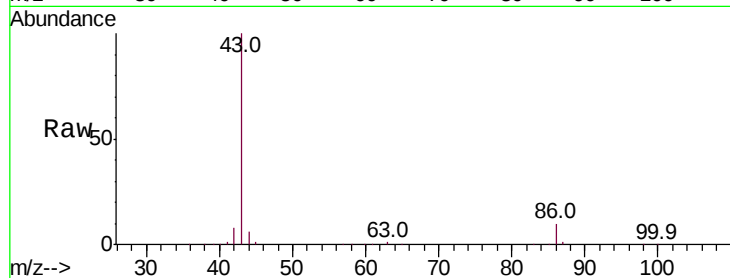
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:01:40 PM



#24

1,1-Dichloroethane

Concen: 15.349 ug/l

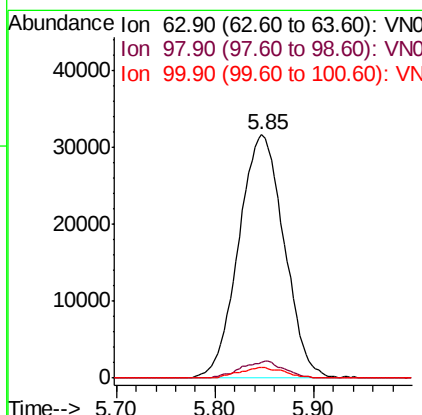
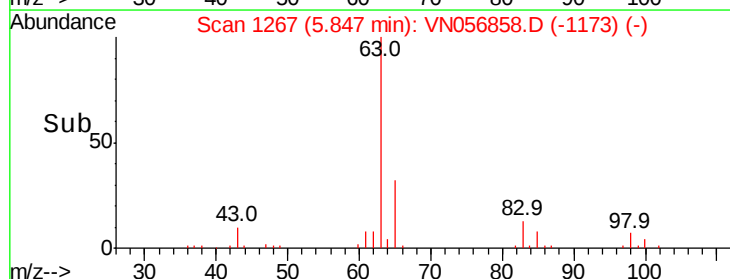
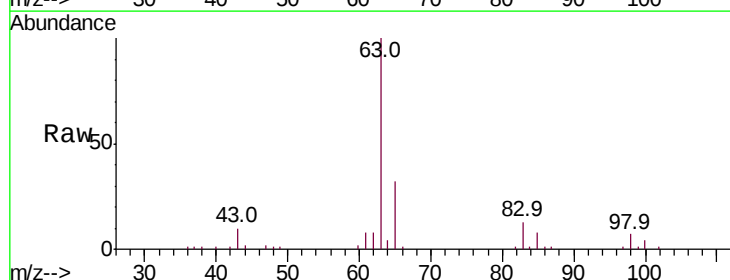
RT: 5.85 min Scan# 1267

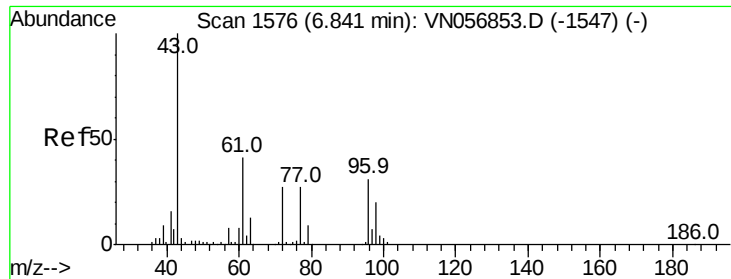
Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.3	9.9
100	4.3	2.2	6.6





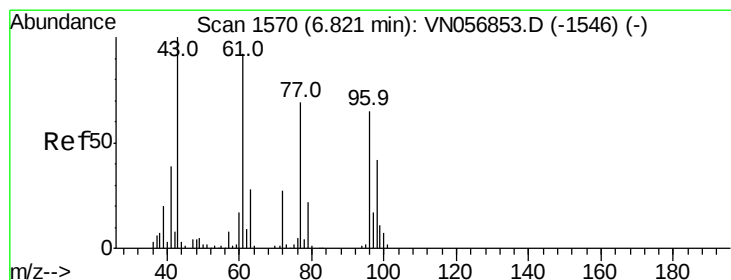
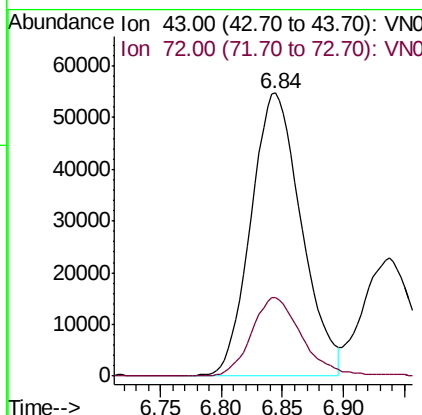
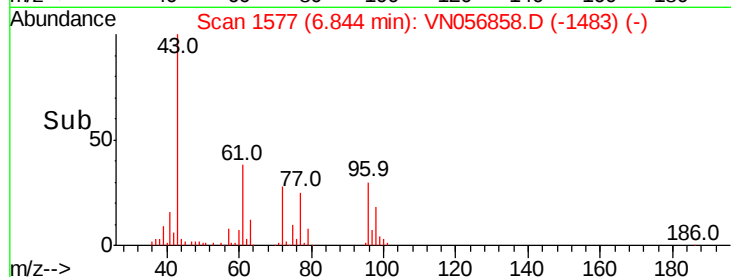
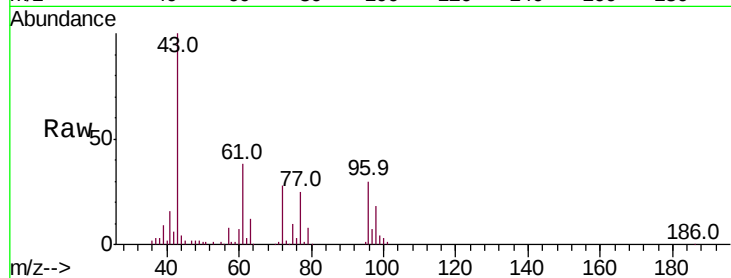
#25
2-Butanone
Concen: 79.139 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion: 43 Resp: 157443
Ion Ratio Lower Upper
43 100
72 27.9 21.5 32.3

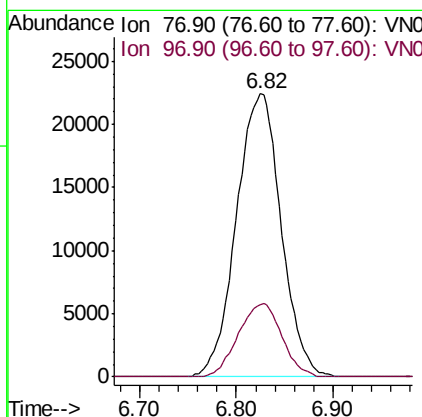
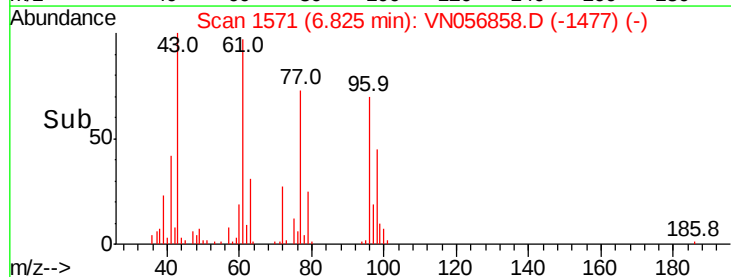
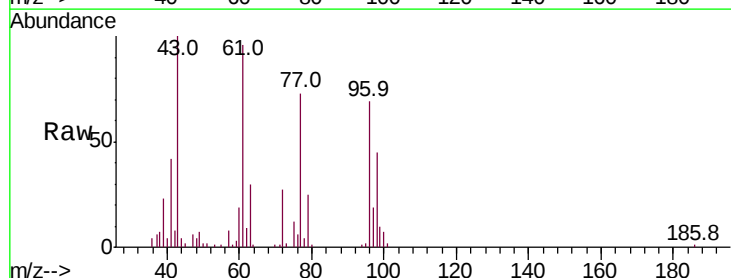
Manual Integrations
APPROVED

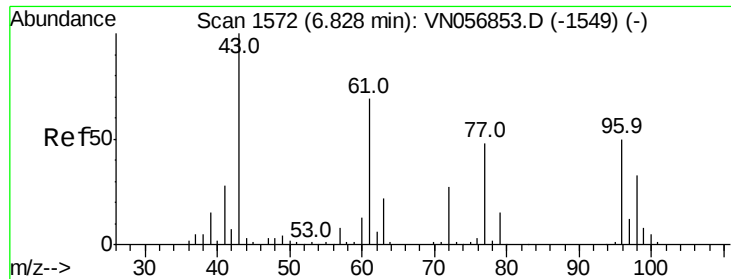
MMDadoda
7/25/2019 3:01:40 PM



#26
2,2-Dichloropropane
Concen: 15.620 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion: 77 Resp: 71971
Ion Ratio Lower Upper
77 100
97 25.2 12.4 37.2





#27

cis-1,2-Dichloroethene

Concen: 15.414 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion: 96 Resp: 63119

Ion Ratio Lower Upper

96 100

61 140.5 0.0 281.6

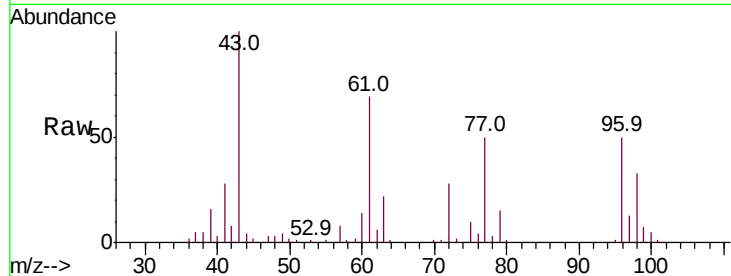
98 64.5 0.0 132.0

Manual Integrations

APPROVED

MMDadoda

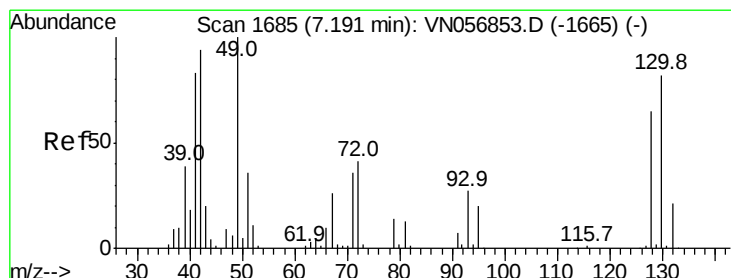
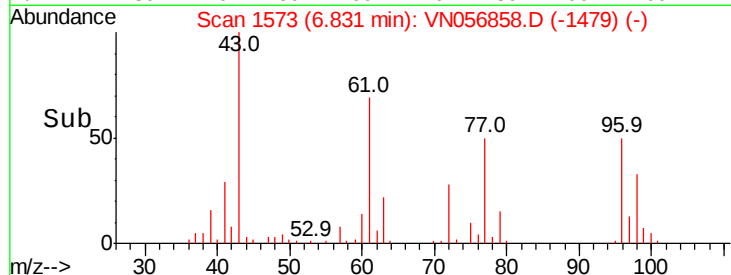
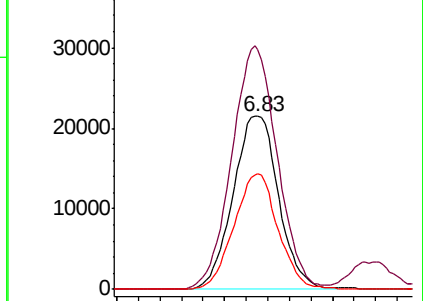
7/25/2019 3:01:40 PM



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 18.375 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.01 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

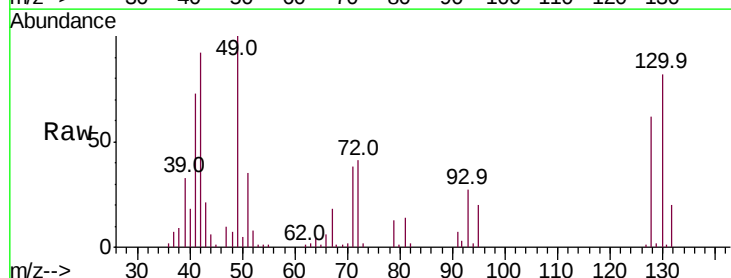
Tgt Ion: 49 Resp: 54922

Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.8

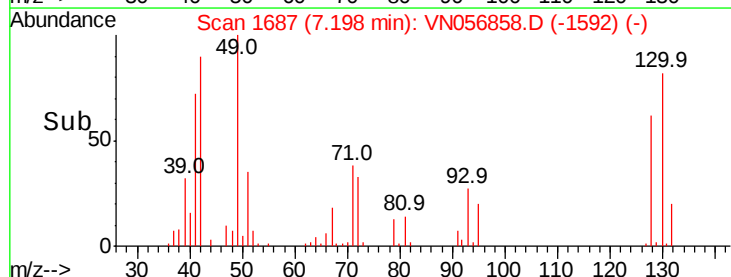
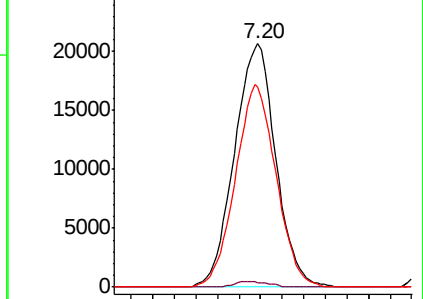
130 82.0 65.0 97.6

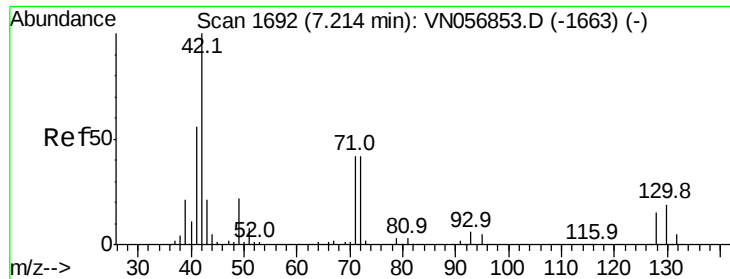


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





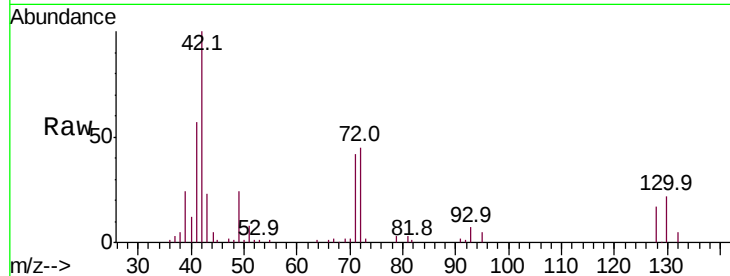
#29
Tetrahydrofuran
Concen: 77.449 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.2	51.2
71	40.9	32.7	49.1

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:01:40 PM

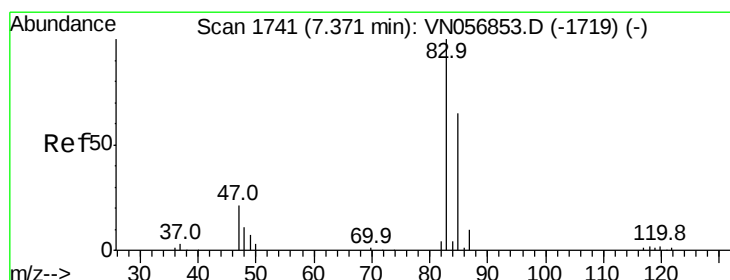
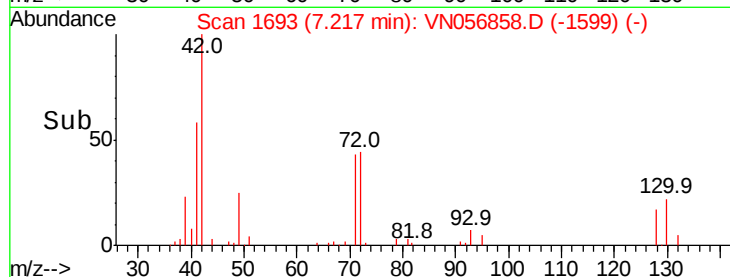
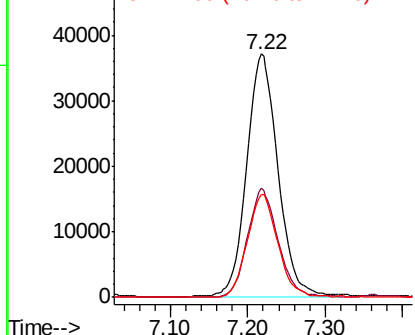


Abundance

Ion 42.00 (41.70 to 42.70): VNO

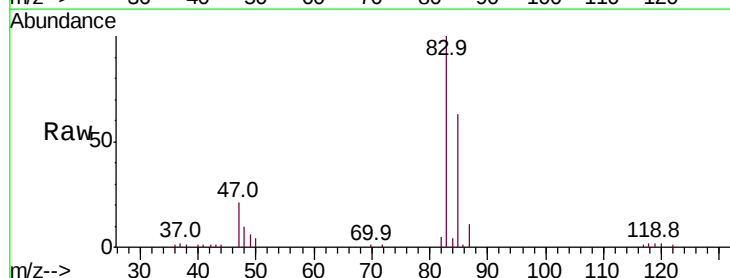
Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO



#30
Chloroform
Concen: 14.946 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

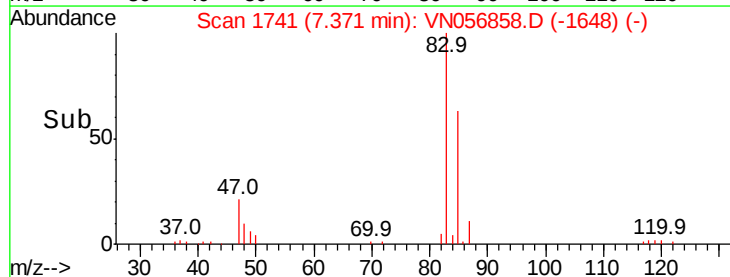
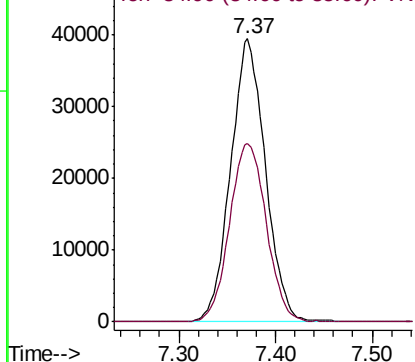
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.3	78.5

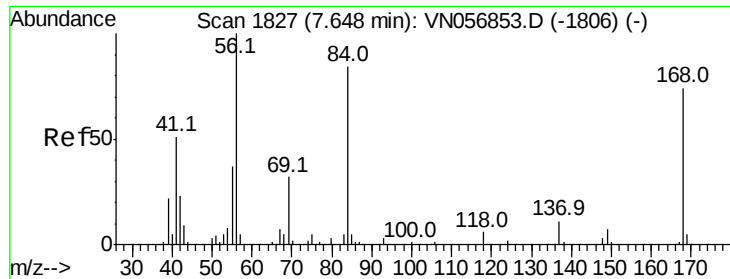


Abundance

Ion 82.90 (82.60 to 83.60): VNO

Ion 84.90 (84.60 to 85.60): VNO





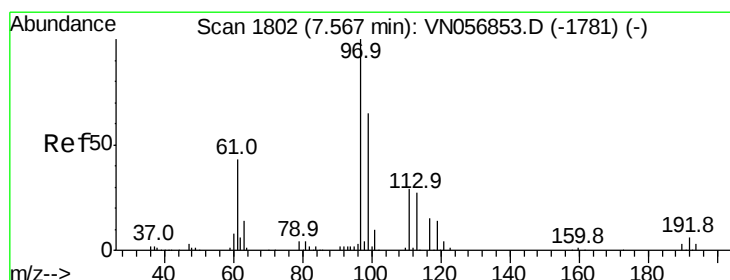
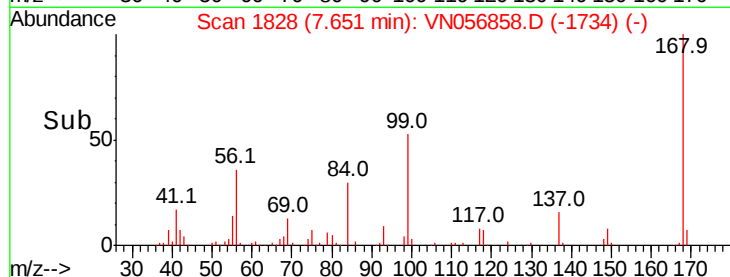
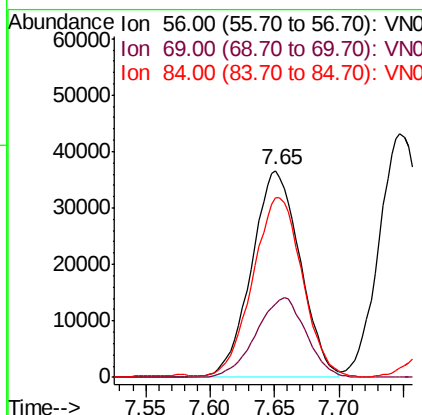
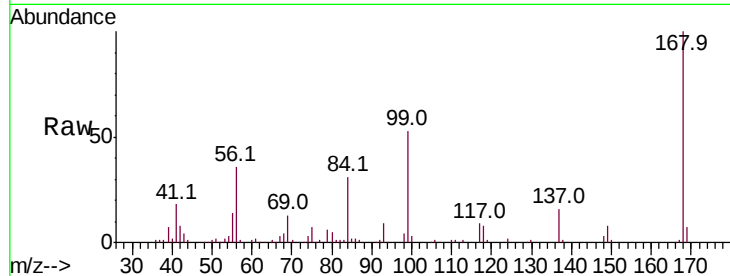
#31
Cyclohexane
Concen: 15.033 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.7	25.5	38.3
84	86.2	67.3	100.9

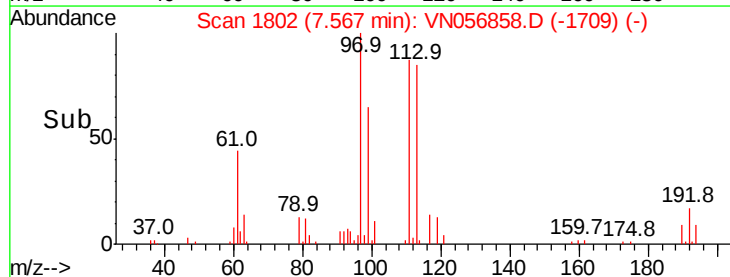
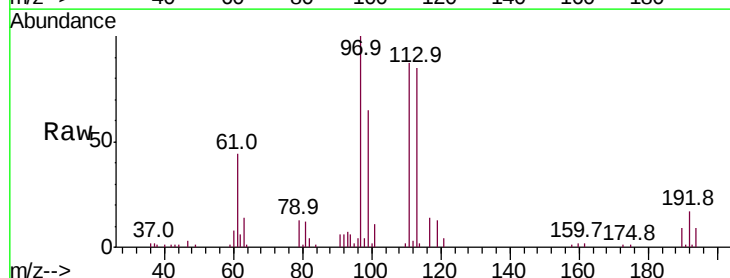
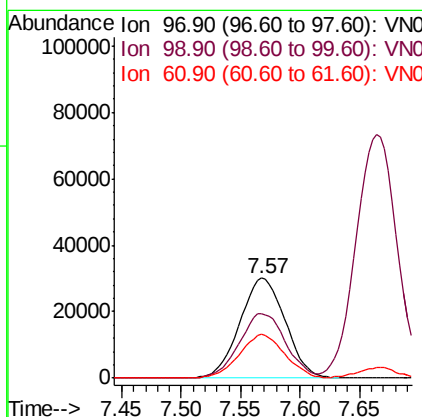
Manual Integrations
APPROVED

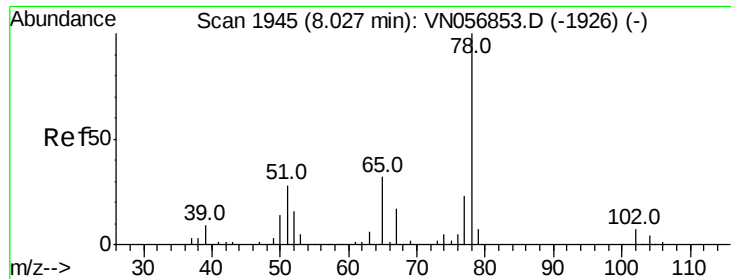
MMDadoda
7/25/2019 3:01:40 PM



#32
1,1,1-Trichloroethane
Concen: 14.903 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.2	52.1	78.1
61	43.7	34.0	51.0





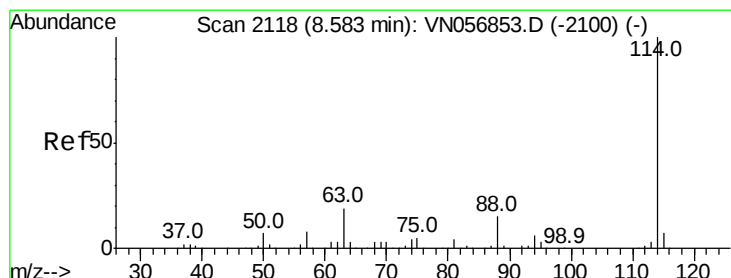
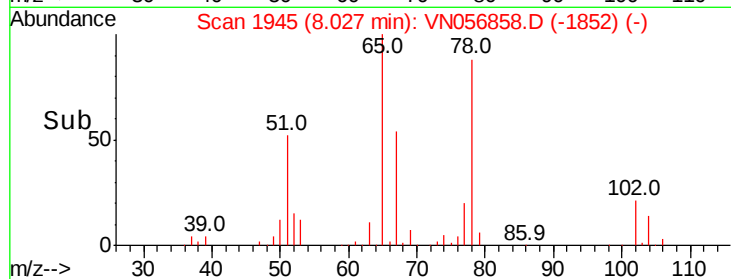
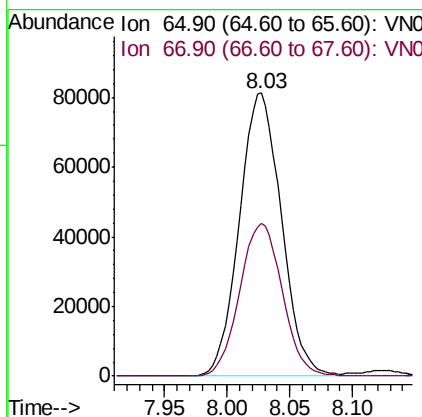
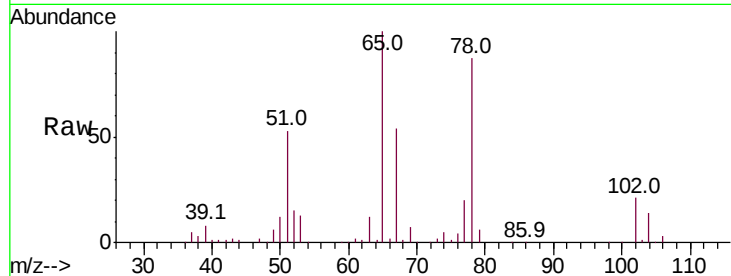
#33
 1,2-Dichloroethane-d4
 Concen: 50.328 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	189158		
67	54.8	0.0	108.6	

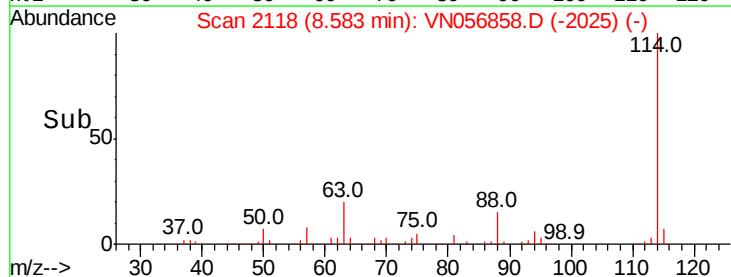
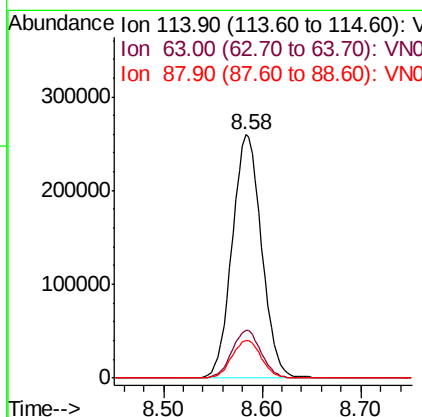
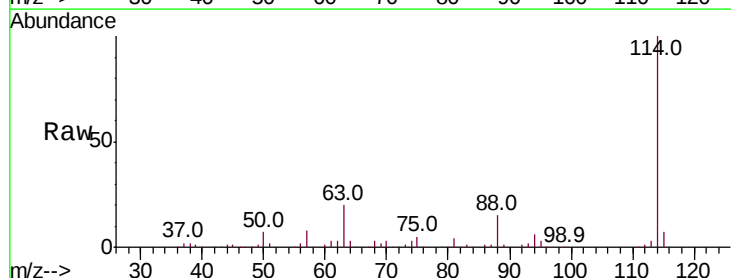
Manual Integrations
 APPROVED

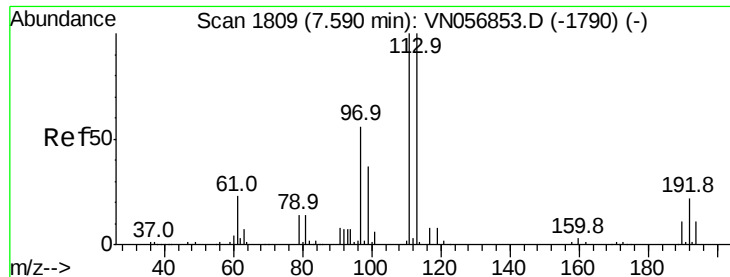
MMDadoda
 7/25/2019 3:01:40 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	536582		
63	19.6	0.0	37.8	
88	15.4	0.0	31.0	





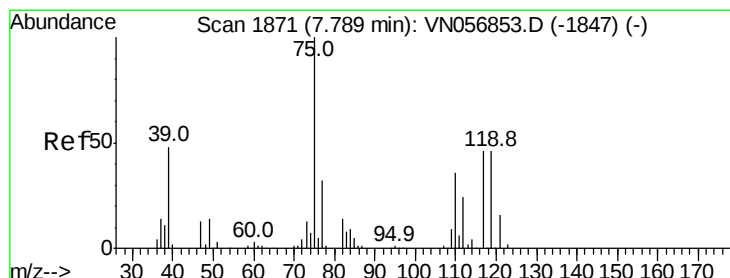
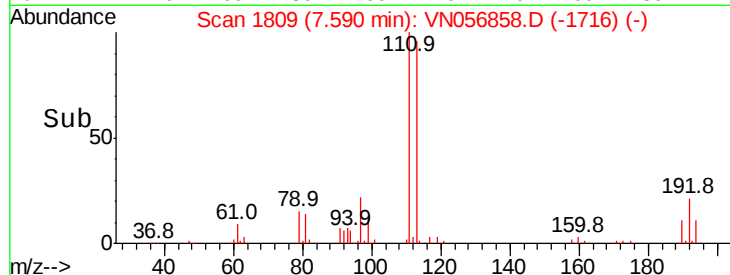
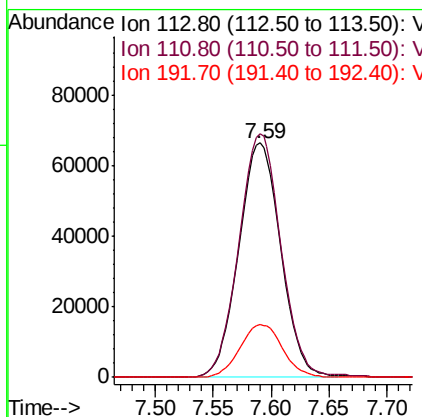
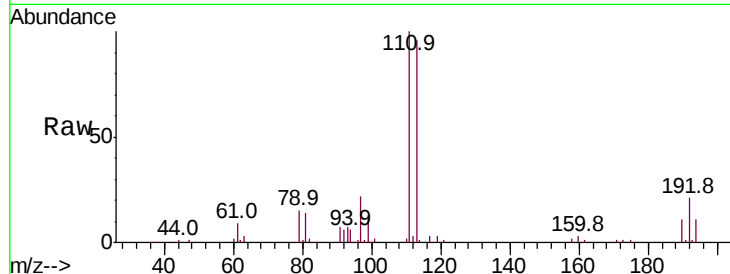
#35
 Dibromofluoromethane
 Concen: 49.121 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.7	81.9	122.9
192	22.9	18.5	27.7

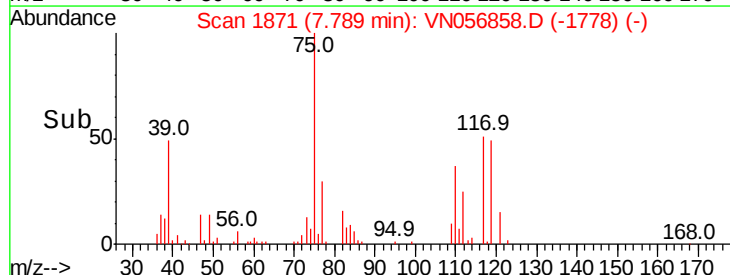
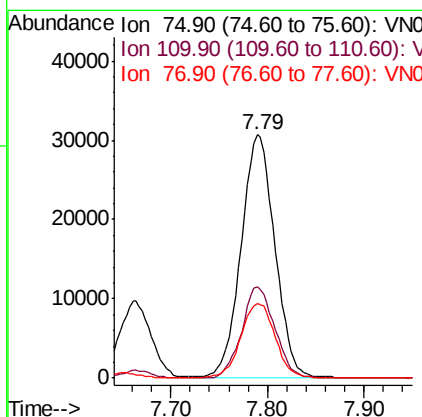
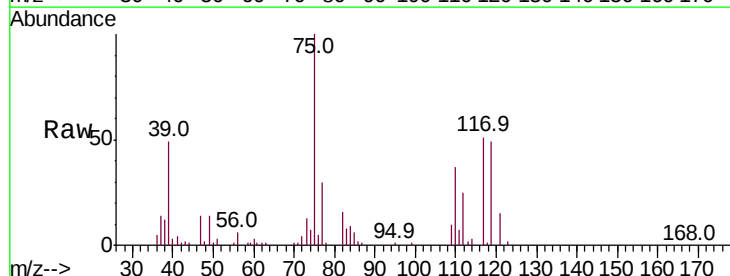
Manual Integrations
 APPROVED

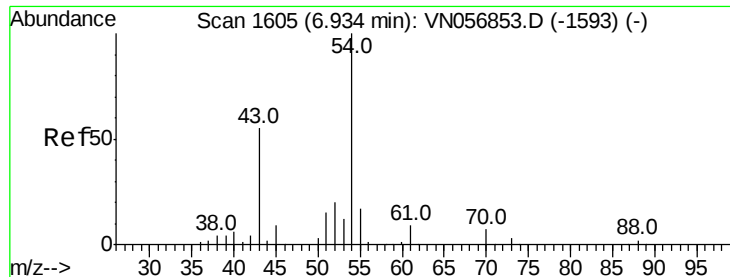
MMDadoda
 7/25/2019 3:01:40 PM



#36
 1,1-Dichloropropene
 Concen: 15.130 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.4	17.9	53.7
77	31.1	25.0	37.6





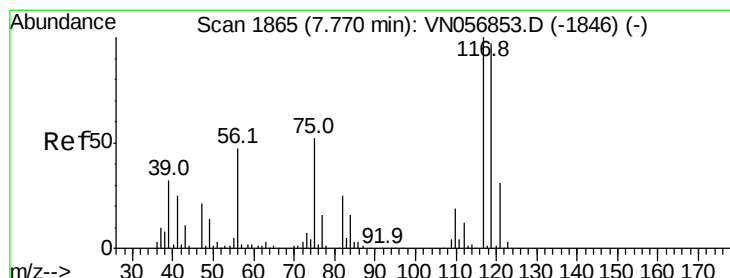
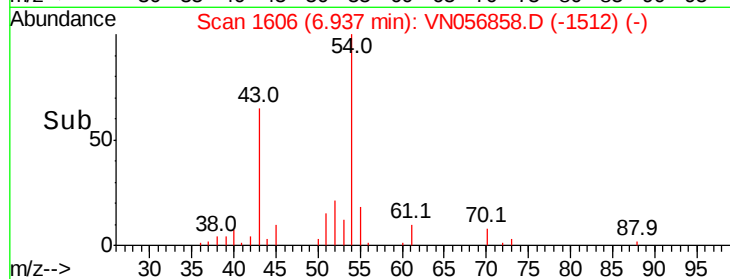
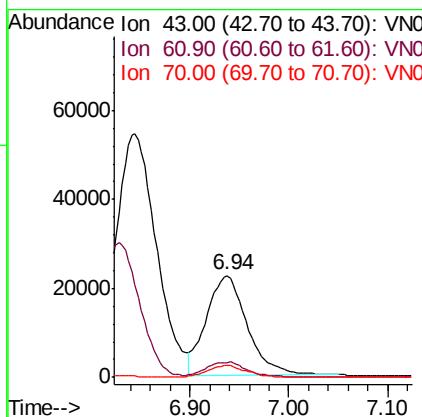
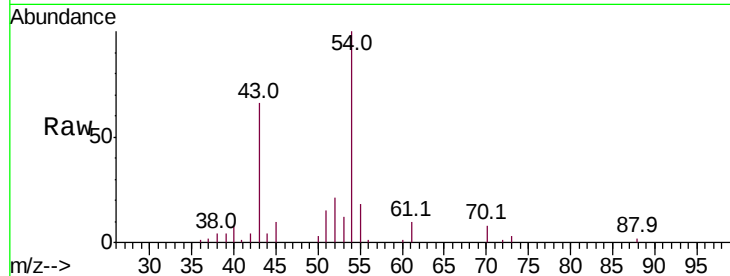
#37
Ethyl Acetate
Concen: 16.498 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.5	11.8	17.8
70	10.7	8.6	13.0

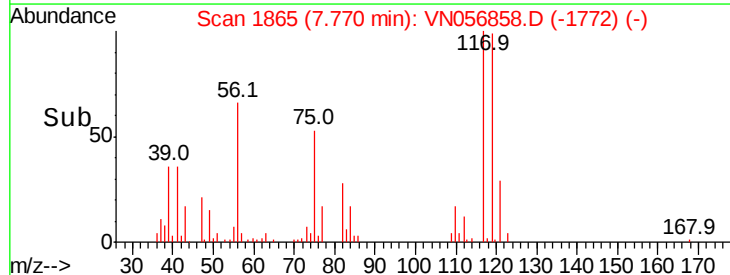
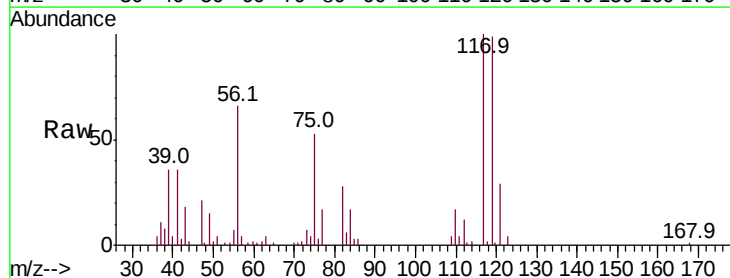
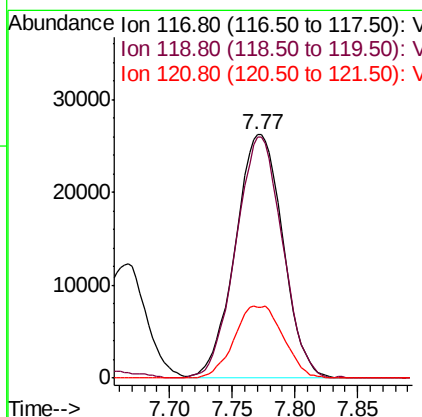
Manual Integrations
APPROVED

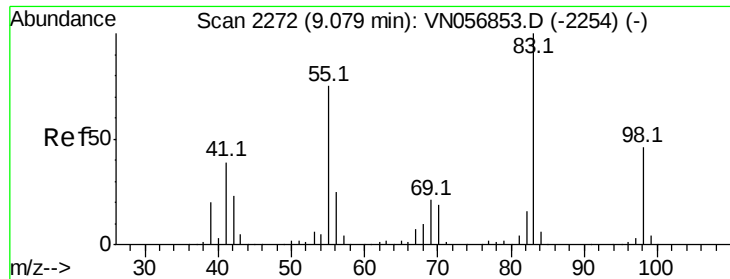
MMDadoda
7/25/2019 3:01:40 PM



#38
Carbon Tetrachloride
Concen: 14.683 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.7	77.2	115.8
121	29.3	24.5	36.7





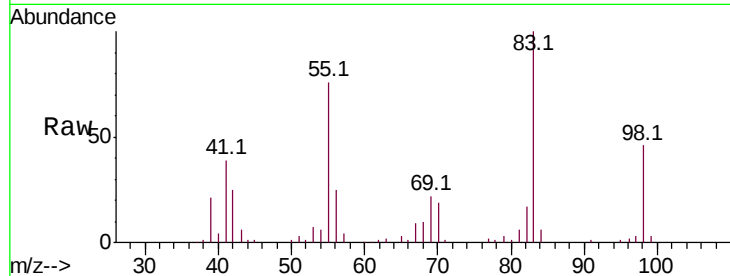
#39
Methvlcvclohexane
Concen: 14.696 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.2	59.8	89.8
98	45.6	37.1	55.7

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:01:40 PM

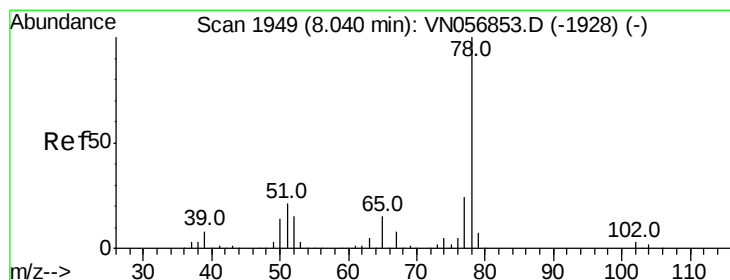
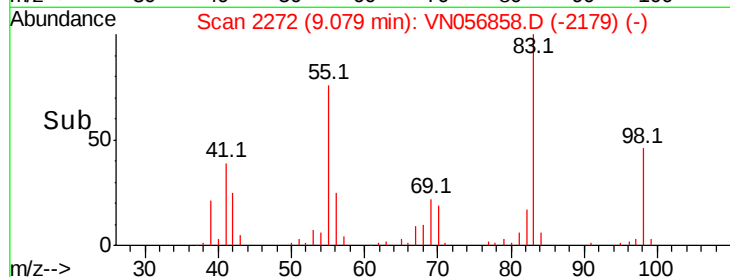
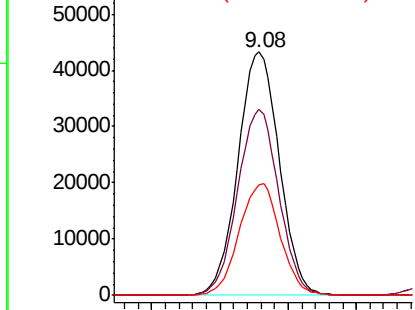


Abundance

Ion 83.00 (82.70 to 83.70): VNO

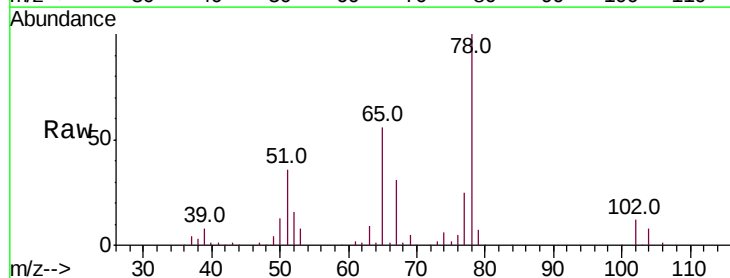
Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO



#40
Benzene
Concen: 15.155 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

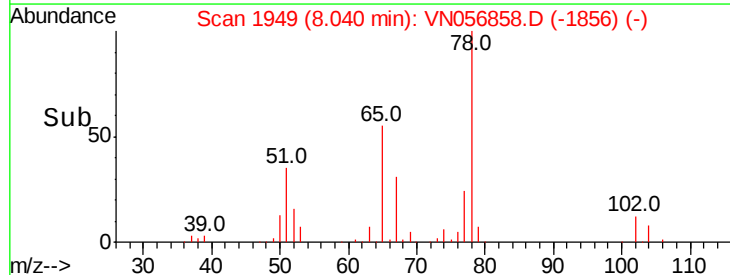
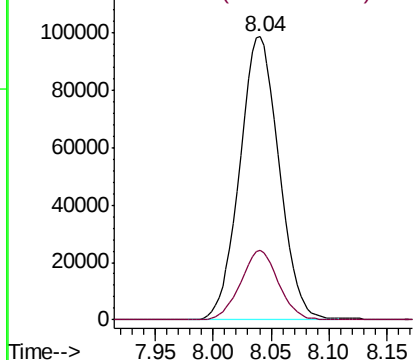
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.1	28.7

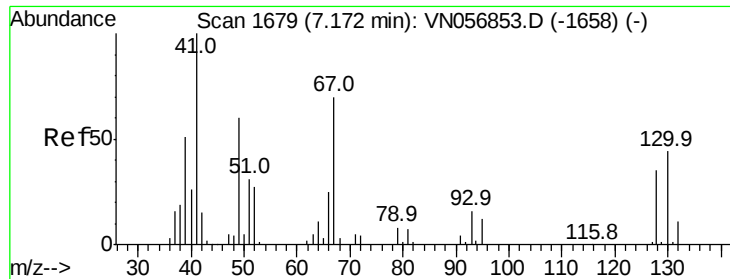


Abundance

Ion 78.00 (77.70 to 78.70): VNO

Ion 77.00 (76.70 to 77.70): VNO





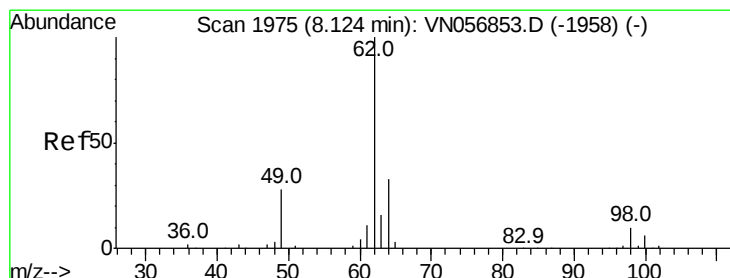
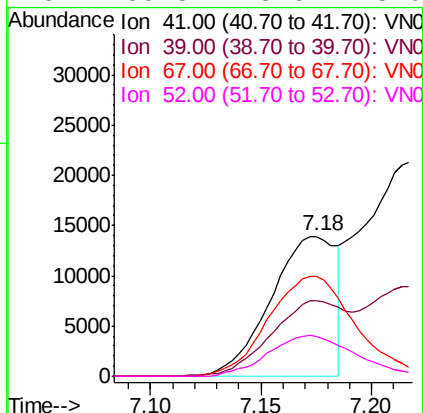
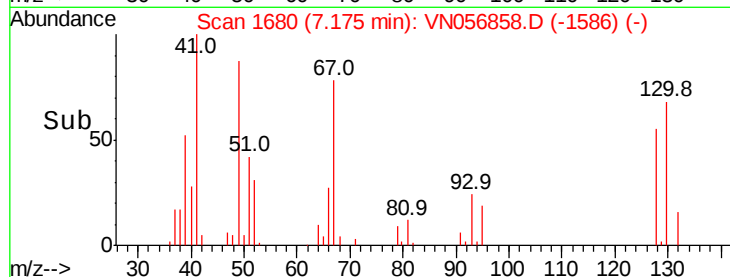
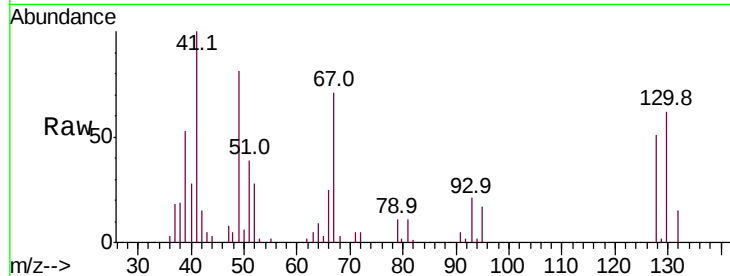
#41
Methacrylonitrile
Concen: 14.495 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	41	Resp	28719
Ion	Ratio	Lower	Upper
41	100		
39	62.1	44.0	66.0
67	95.7	73.5	110.3
52	39.8	28.6	43.0

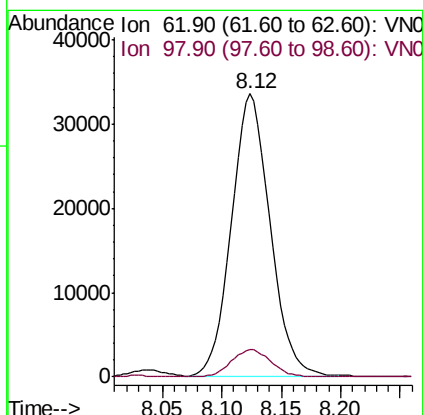
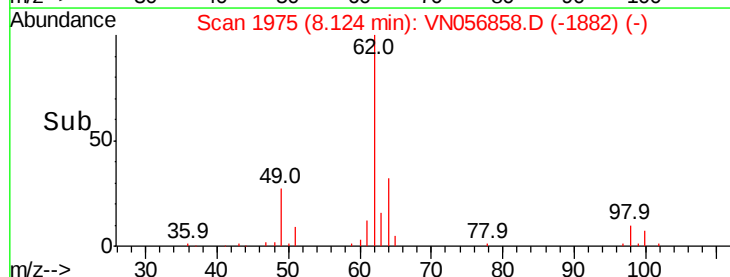
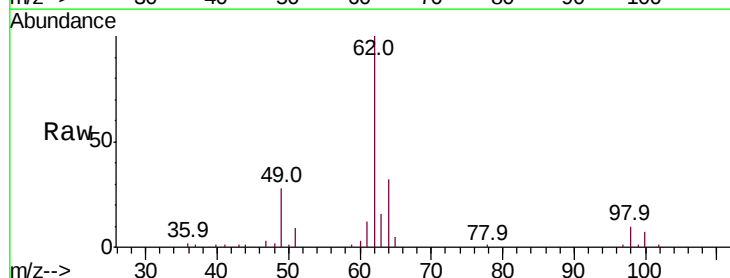
Manual Integrations
APPROVED

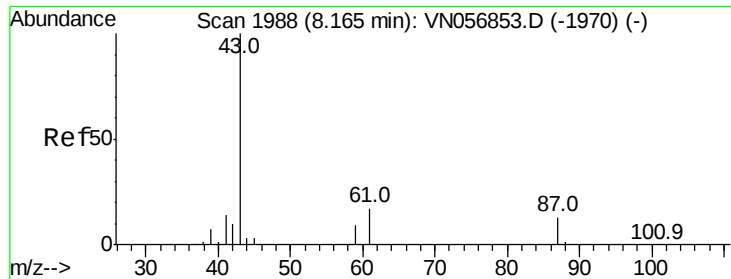
MMDadoda
7/25/2019 3:01:40 PM



#42
1,2-Dichloroethane
Concen: 15.810 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion	62	Resp	75931
Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.4





#43

Isopropyl Acetate

Concen: 15.114 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

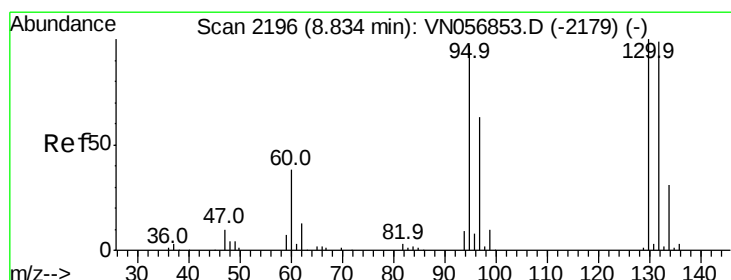
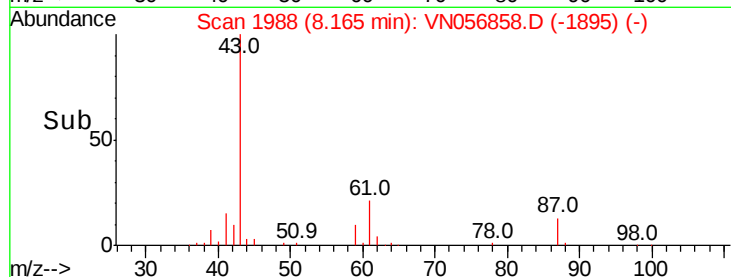
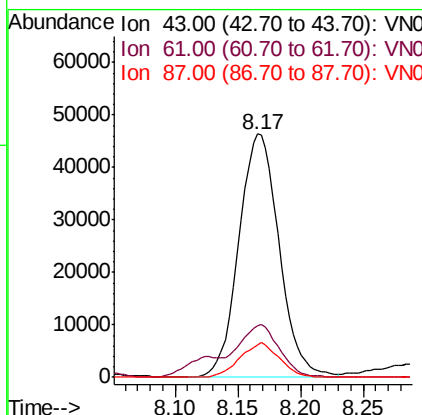
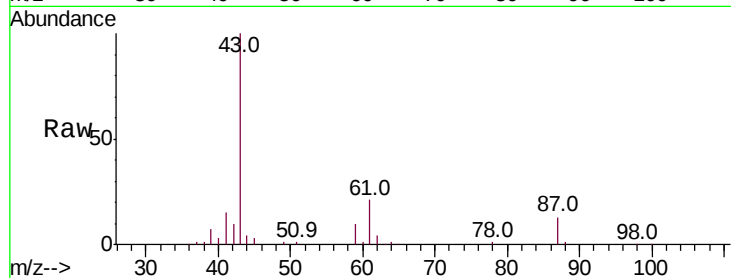
ClientSampleId :

VN0722WBS01

Tot Ion	43	Resp	103685
Ion Ratio	100	Lower	Upper
61	21.6	17.8	26.6
87	13.9	11.0	16.4

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:01:40 PM



#44

Trichloroethene

Concen: 15.220 ug/l

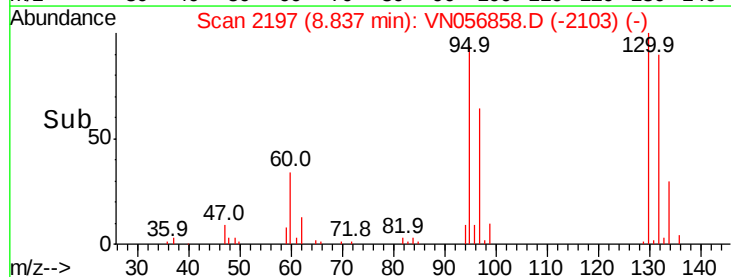
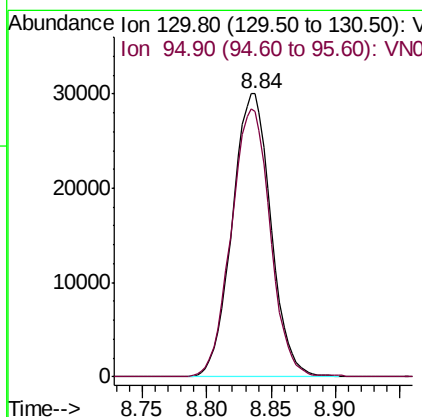
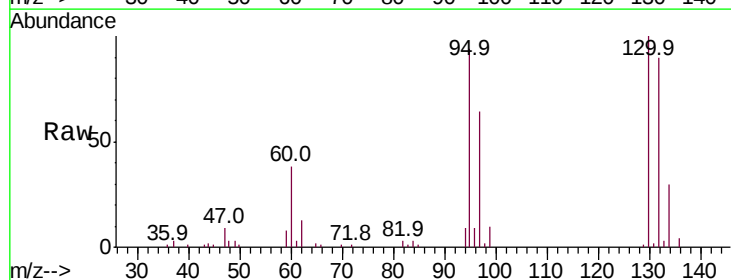
RT: 8.84 min Scan# 2197

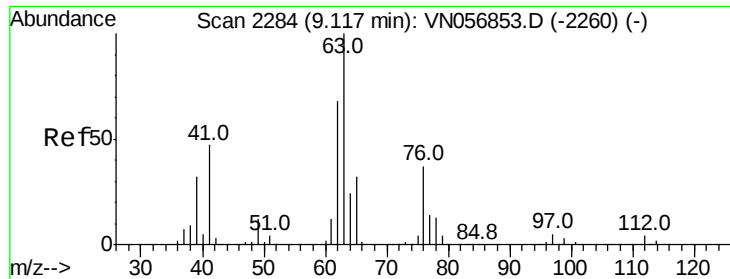
Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Tgt Ion	130	Resp	62655
Ion Ratio	100	Lower	Upper
95	93.7	0.0	194.0





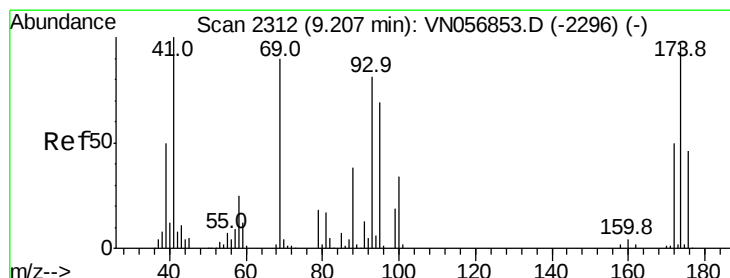
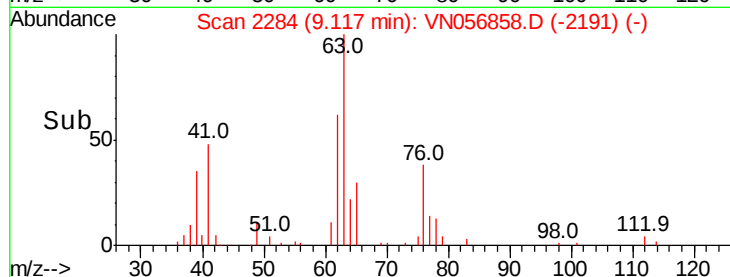
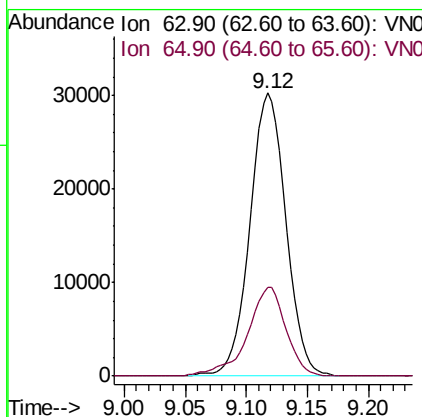
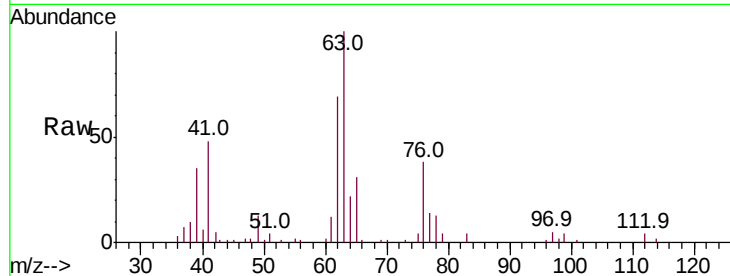
#45
 1,2-Dichloropropane
 Concen: 14.897 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBS01

Tot Ion: 63 Resp: 61684
 Ion Ratio Lower Upper
 63 100
 65 31.5 25.4 38.0

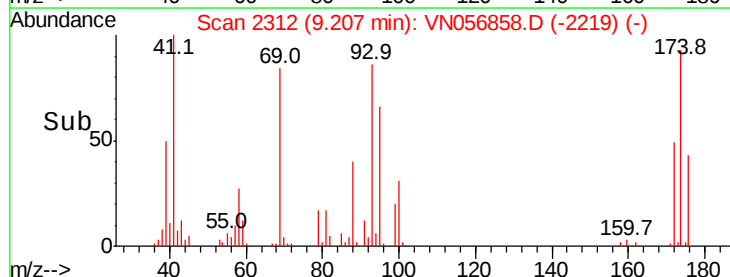
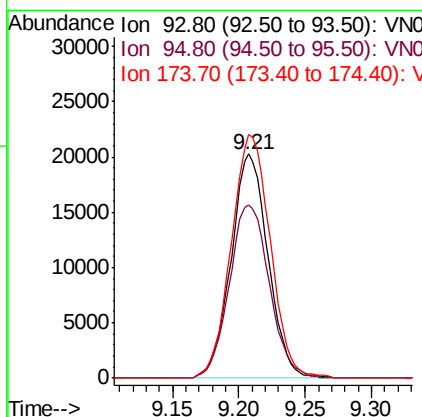
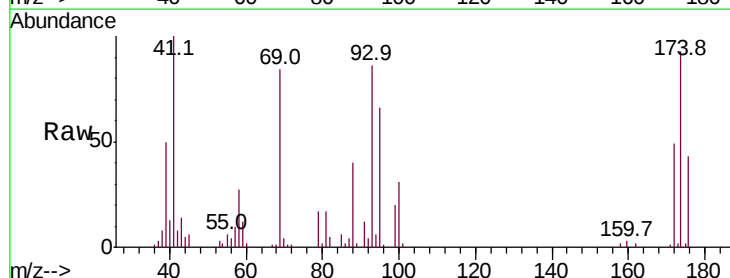
Manual Integrations
 APPROVED

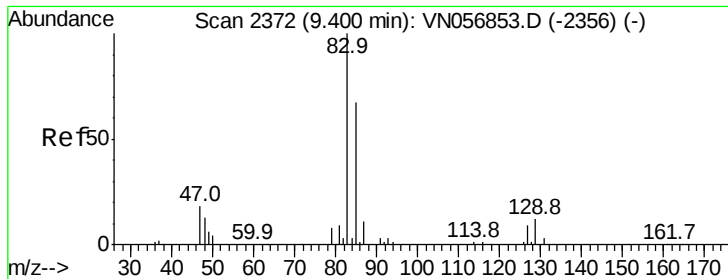
MMDadoda
 7/25/2019 3:01:40 PM



#46
 Dibromomethane
 Concen: 15.417 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Tgt Ion: 93 Resp: 39402
 Ion Ratio Lower Upper
 93 100
 95 83.1 67.4 101.0
 174 114.3 92.9 139.3





#47

Bromodichloromethane

Concen: 14.880 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

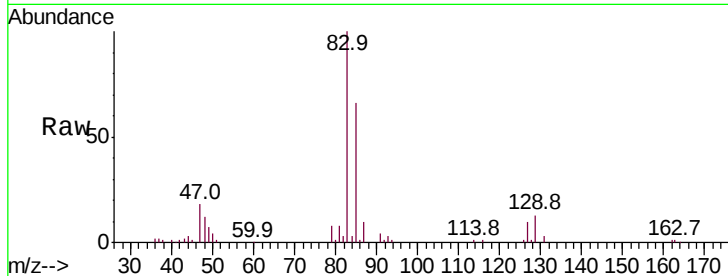
ClientSampleId :

VN0722WBS01

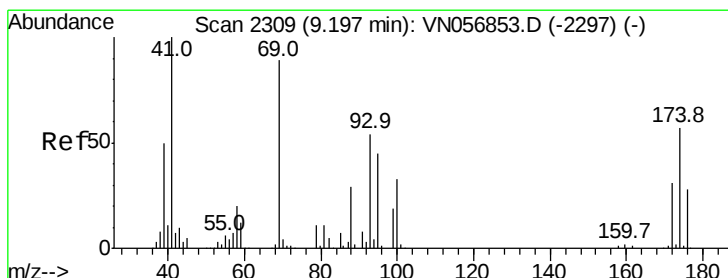
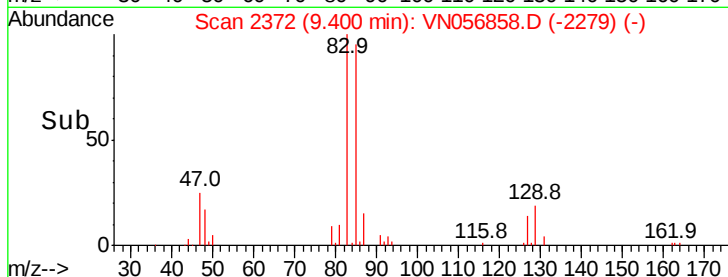
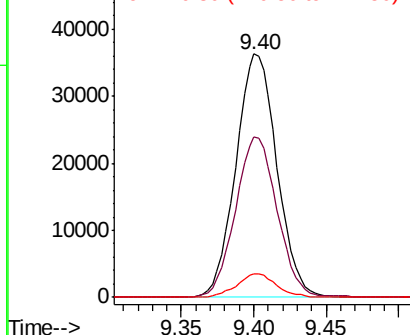
Tot Ion:	83	Resp:	71522
Ion Ratio	Lower	Upper	
83	100		
85	65.8	53.4	80.2
127	9.6	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:01:40 PM



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 14.953 ug/l

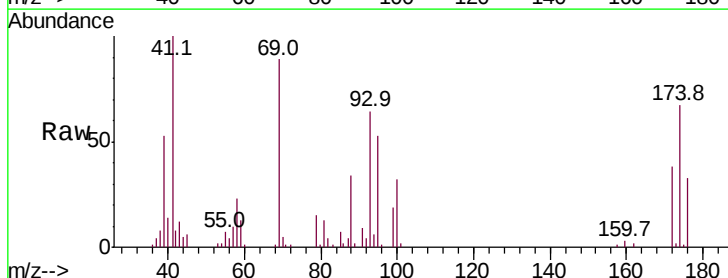
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

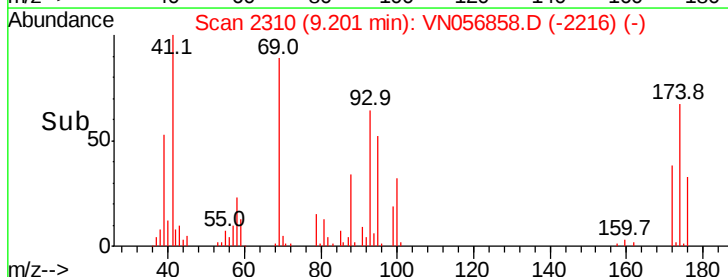
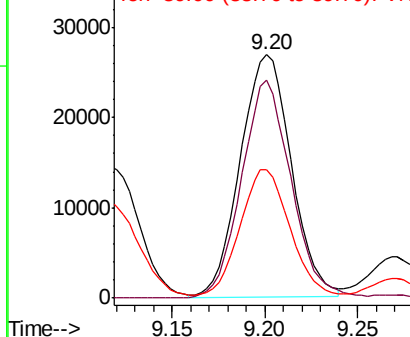
Lab File: VN056858.D

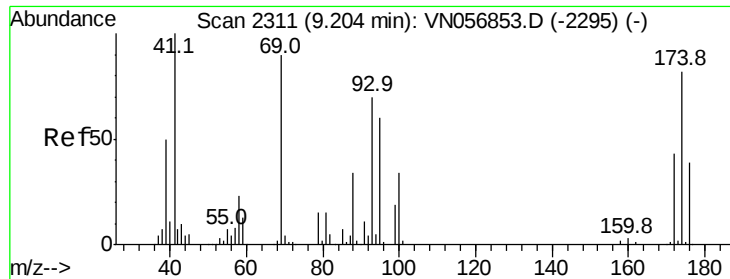
Acq: 22 Jul 2019 16:57

Tgt Ion:	41	Resp:	51314
Ion Ratio	Lower	Upper	
41	100		
69	87.5	71.1	106.7
39	51.9	40.6	60.8



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 316.454 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion: 88 Resp: 21302

Ion Ratio Lower Upper

88 100

43 29.6 21.4 32.2

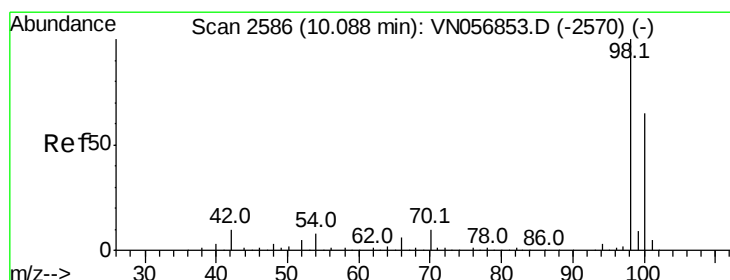
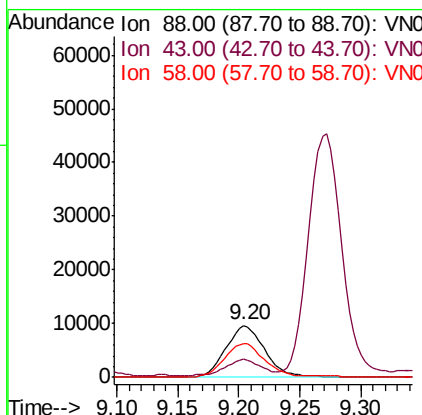
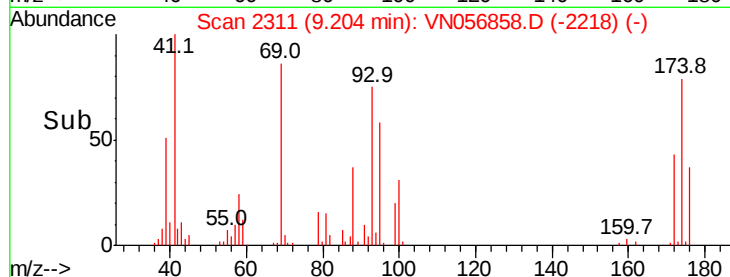
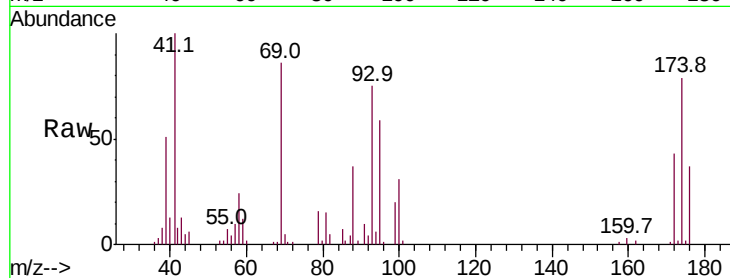
58 67.6 55.7 83.5

Manual Integrations

APPROVED

MMDadoda

7/25/2019 3:01:40 PM



#50

Toluene-d8

Concen: 49.460 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056858.D

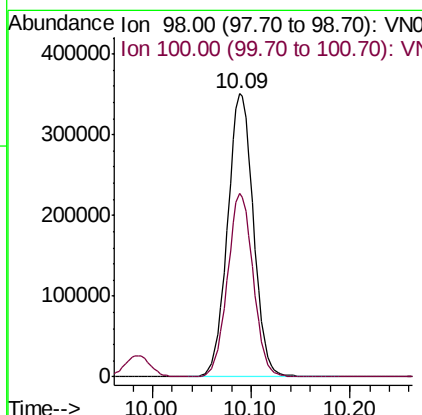
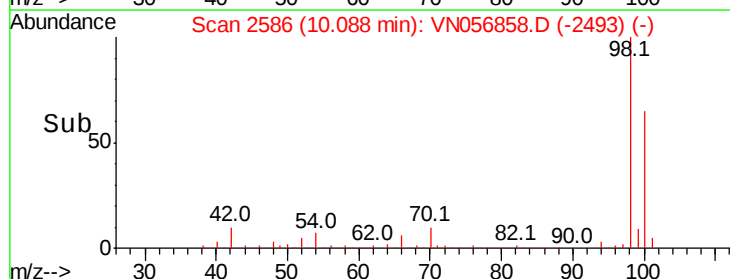
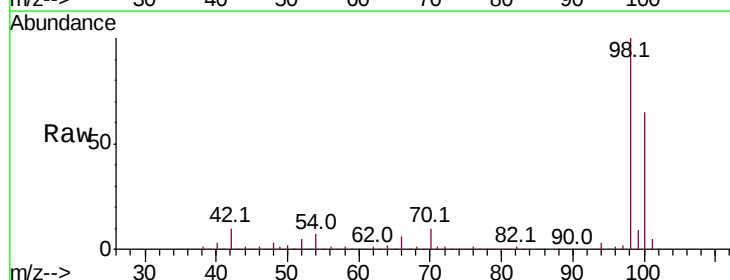
Acq: 22 Jul 2019 16:57

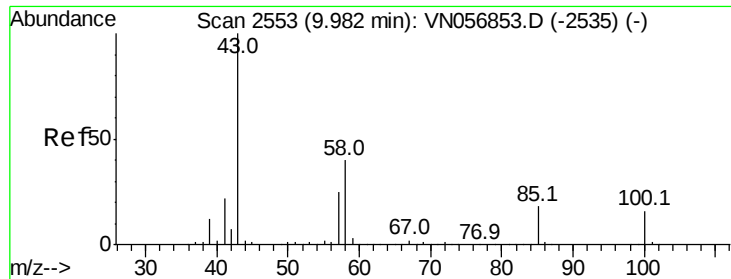
Tgt Ion: 98 Resp: 643551

Ion Ratio Lower Upper

98 100

100 64.4 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 76.356 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion: 43 Resp: 312358

Ion Ratio Lower Upper

43 100

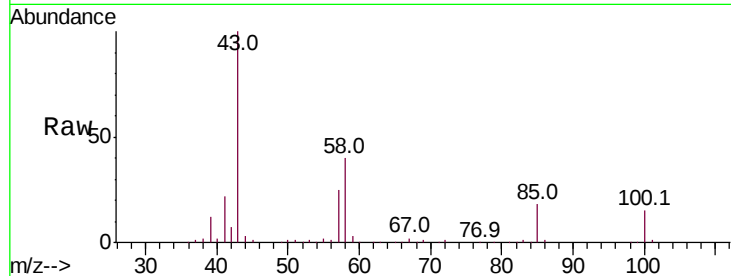
58 40.1 32.4 48.6

Manual Integrations

APPROVED

MMDadoda

7/25/2019 3:01:40 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

200000

150000

100000

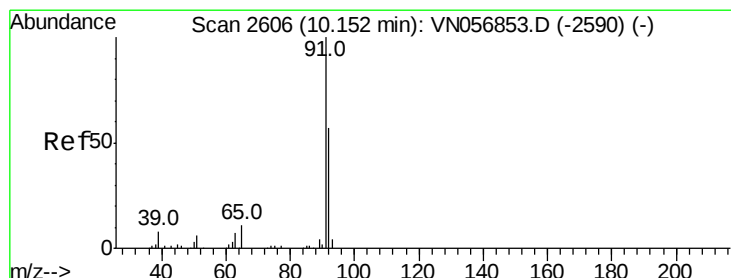
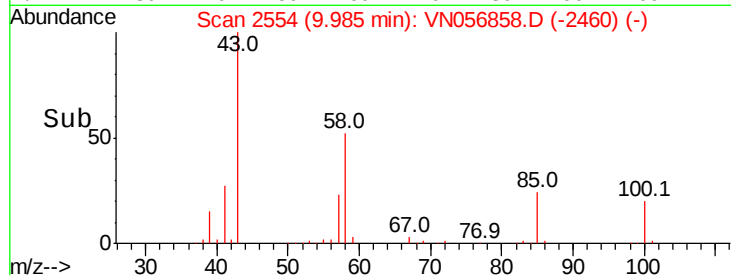
50000

0

9.90

10.00

Time-->



#52

Toluene

Concen: 15.302 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN056858.D

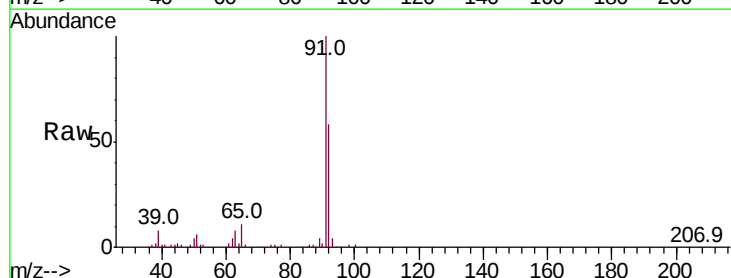
Acq: 22 Jul 2019 16:57

Tgt Ion: 92 Resp: 141534

Ion Ratio Lower Upper

92 100

91 173.2 140.6 210.8



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

150000

100000

50000

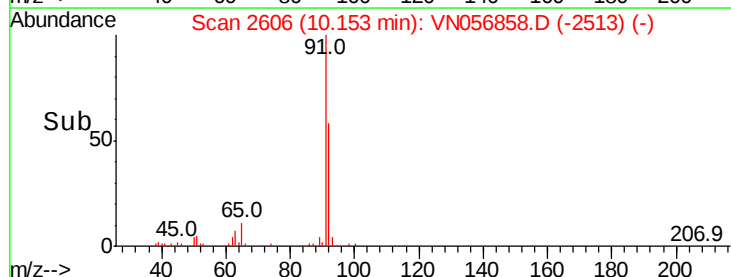
0

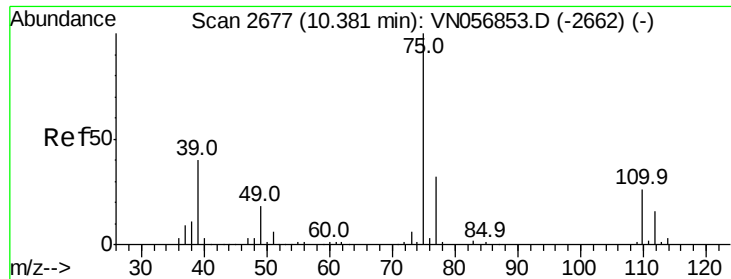
10.10

10.15

10.20

Time-->





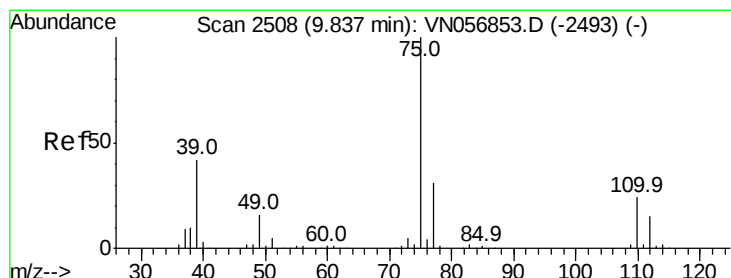
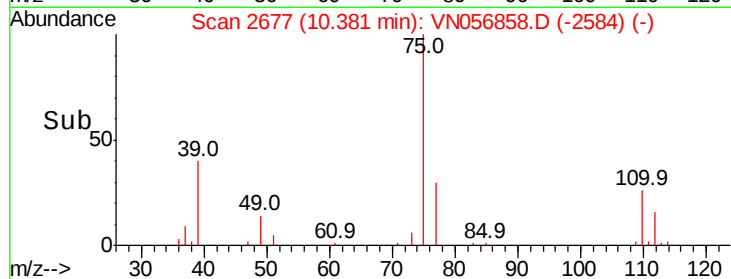
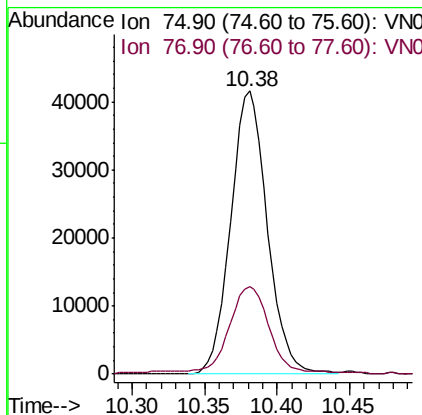
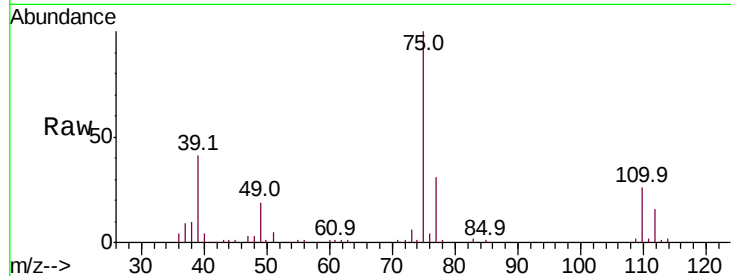
#53
t-1,3-Dichloropropene
Concen: 14.794 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion: 75 Resp: 72977
Ion Ratio Lower Upper
75 100
77 30.2 25.4 38.2

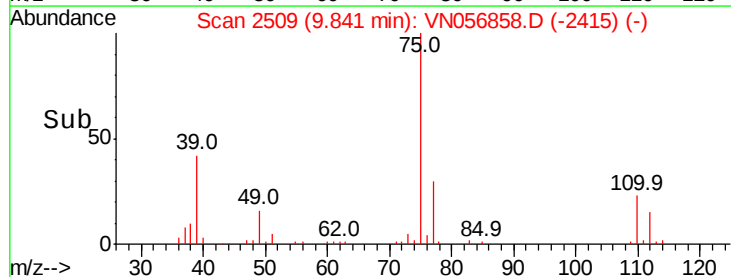
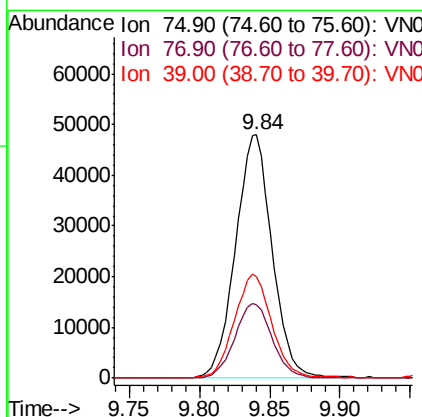
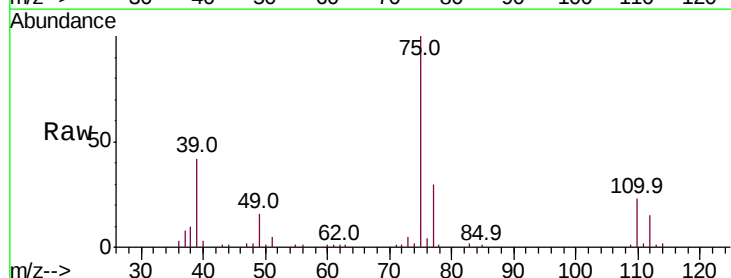
Manual Integrations
APPROVED

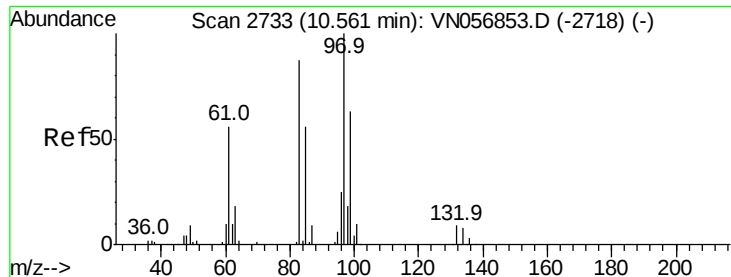
MMDadoda
7/25/2019 3:01:40 PM



#54
cis-1,3-Dichloropropene
Concen: 14.994 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion: 75 Resp: 87198
Ion Ratio Lower Upper
75 100
77 30.1 25.1 37.7
39 41.7 33.4 50.2





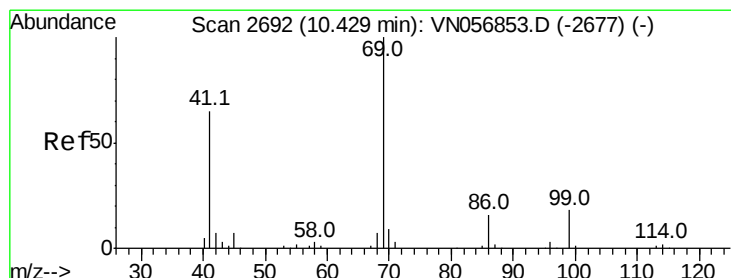
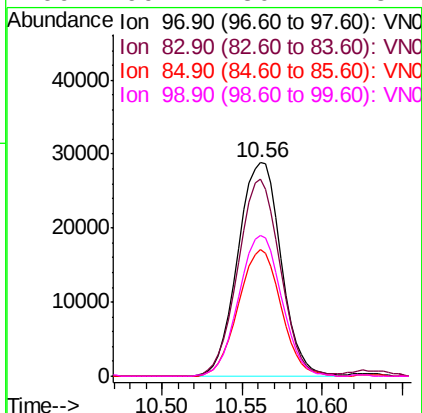
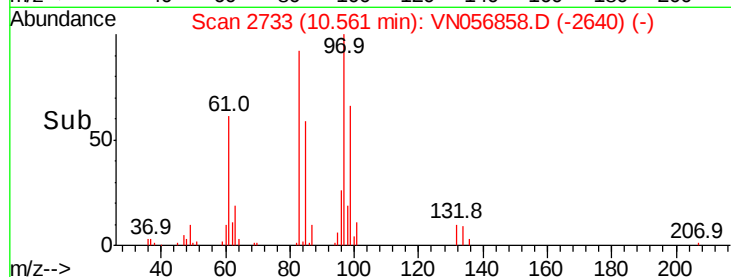
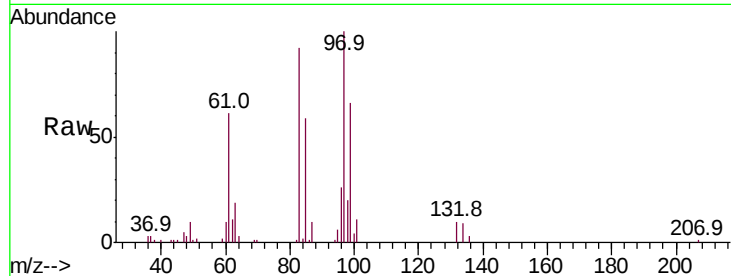
#55
 1,1,2-Trichloroethane
 Concen: 14.529 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	92.4	70.0	105.0
85	59.2	45.1	67.7
99	66.1	50.2	75.4

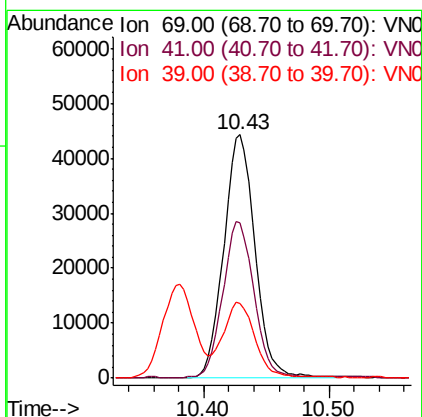
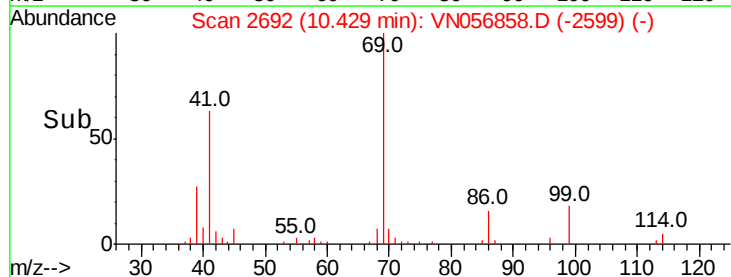
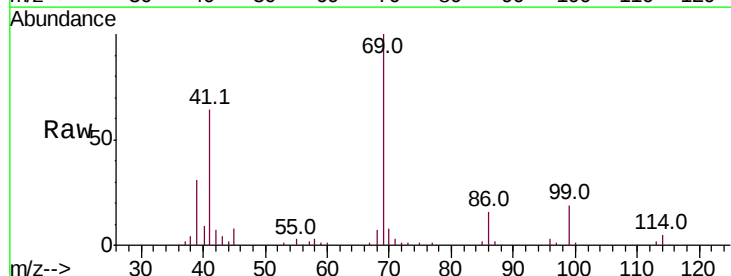
Manual Integrations
 APPROVED

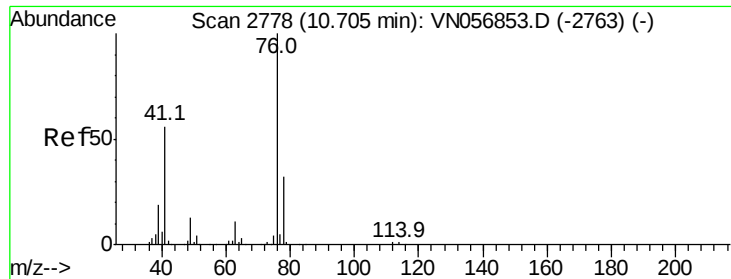
MMDadoda
 7/25/2019 3:01:40 PM



#56
 Ethyl methacrylate
 Concen: 15.053 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
69	100		
41	63.1	51.0	76.6
39	31.6	24.5	36.7





#57

1,3-Dichloropropane

Concen: 15.425 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion: 76 Resp: 93732

Ion Ratio Lower Upper

76 100

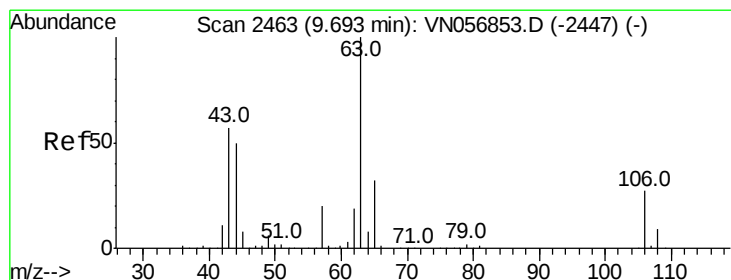
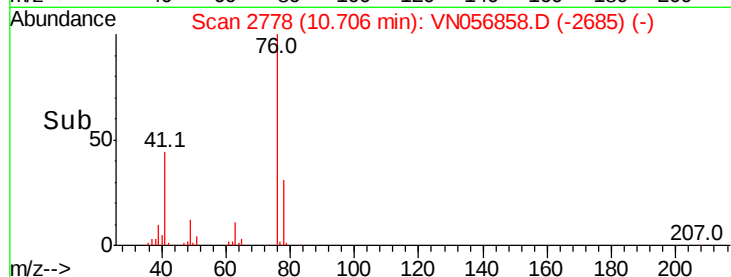
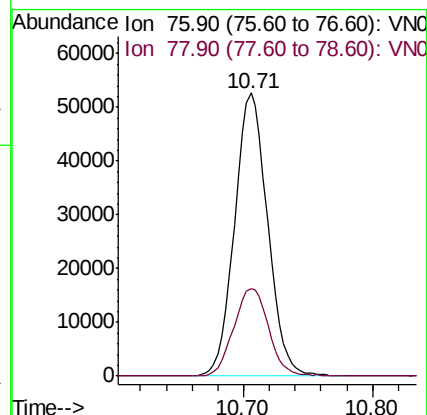
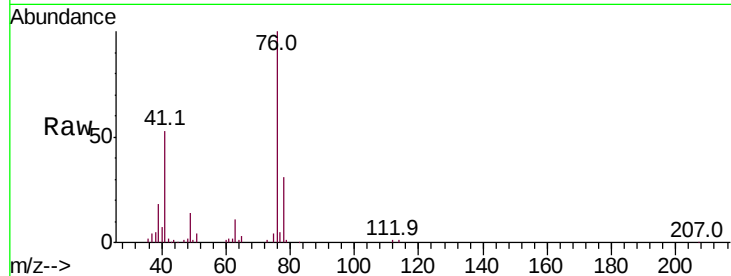
78 32.8 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

7/25/2019 3:01:40 PM



#58

2-Chloroethyl Vinyl ether

Concen: 80.296 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN056858.D

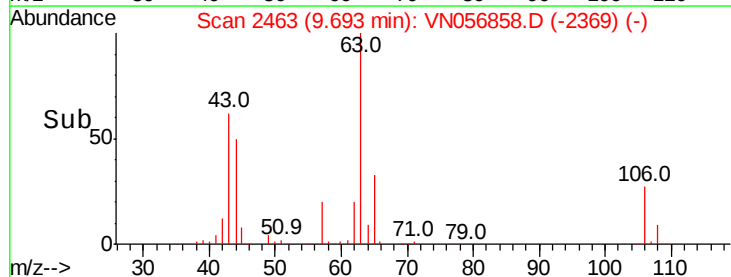
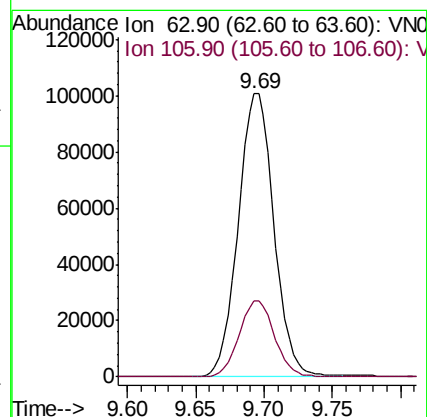
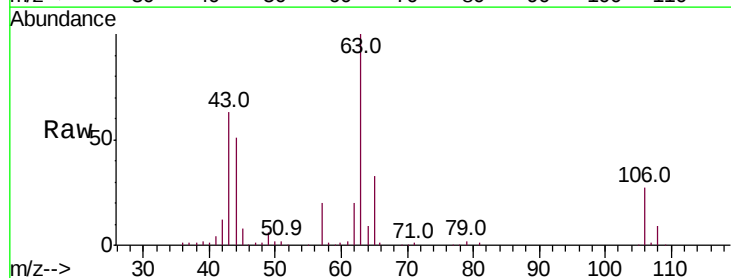
Acq: 22 Jul 2019 16:57

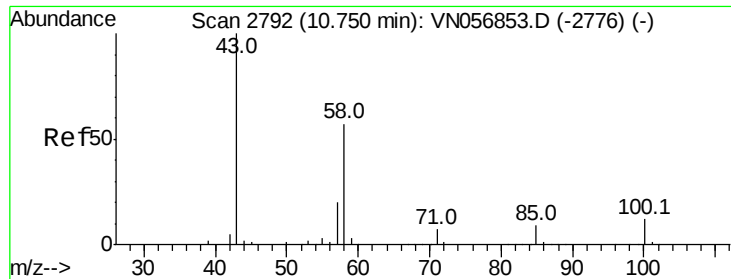
Tgt Ion: 63 Resp: 183175

Ion Ratio Lower Upper

63 100

106 26.7 21.8 32.8





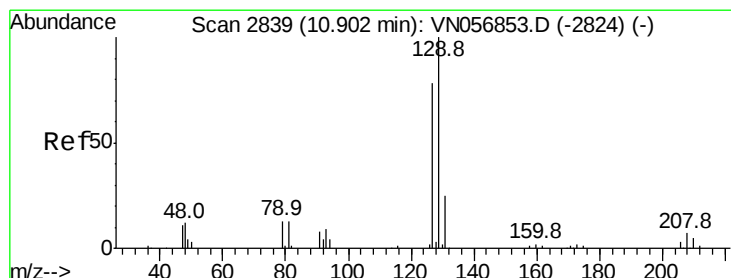
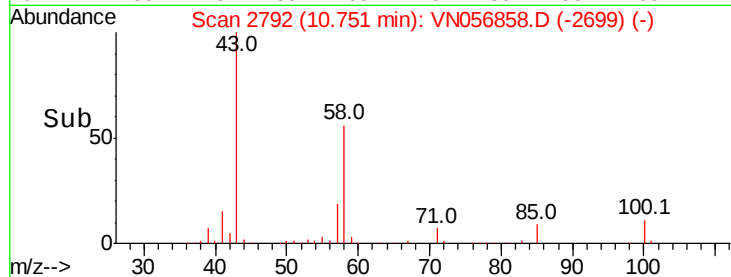
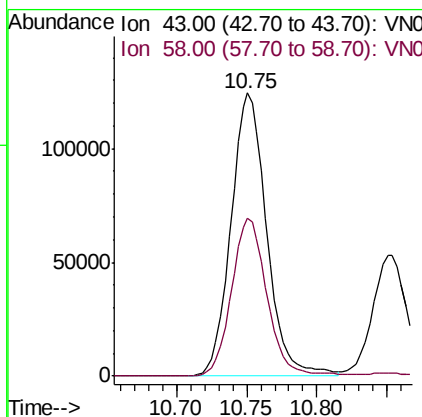
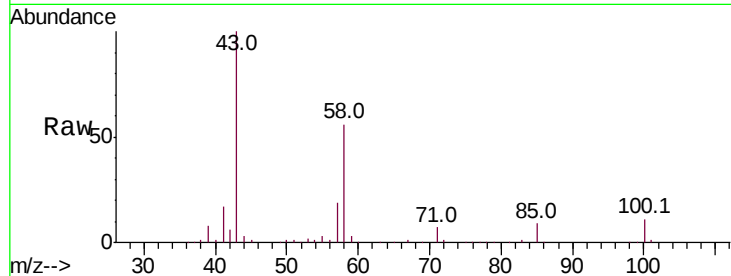
#59
2-Hexanone
Concen: 77.306 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampled :
VN0722WBS01

Tot Ion: 43 Resp: 218901
Ion Ratio Lower Upper
43 100
58 56.0 28.3 85.0

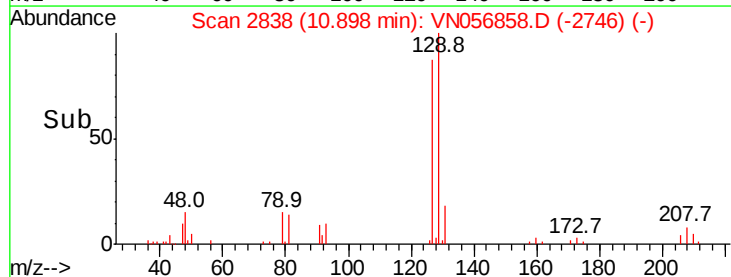
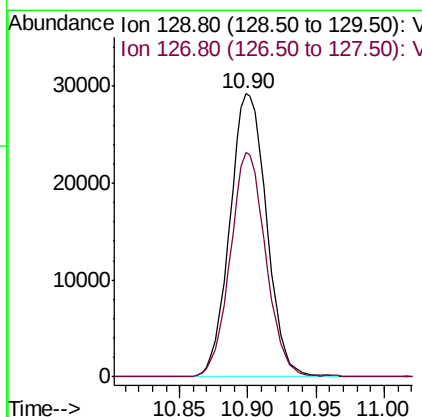
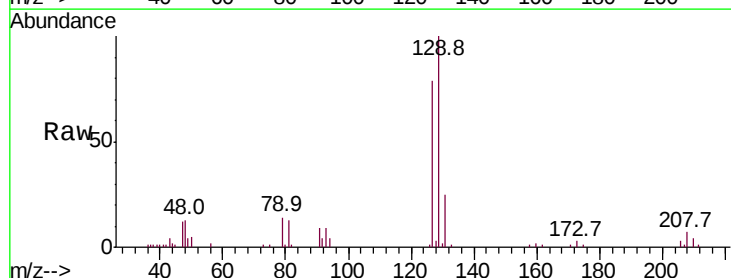
Manual Integrations
APPROVED

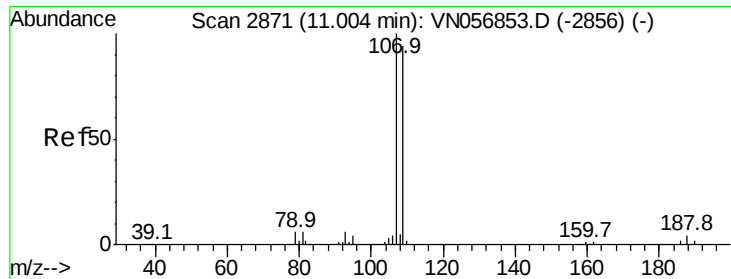
MMDadoda
7/25/2019 3:01:40 PM



#60
Dibromochloromethane
Concen: 14.838 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion: 129 Resp: 54660
Ion Ratio Lower Upper
129 100
127 76.5 38.5 115.5





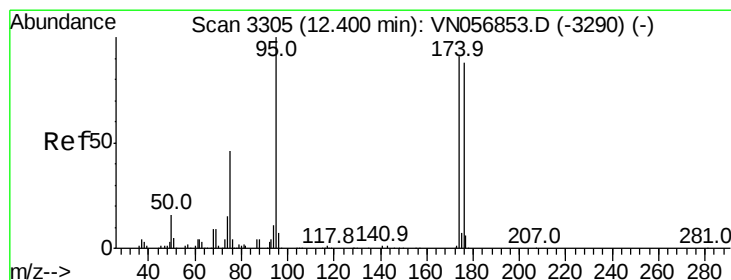
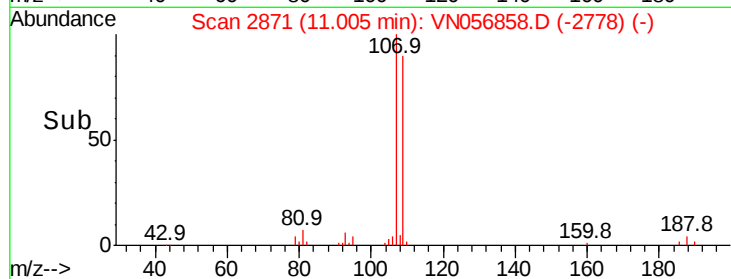
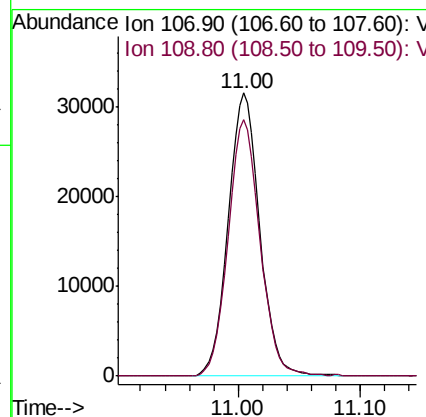
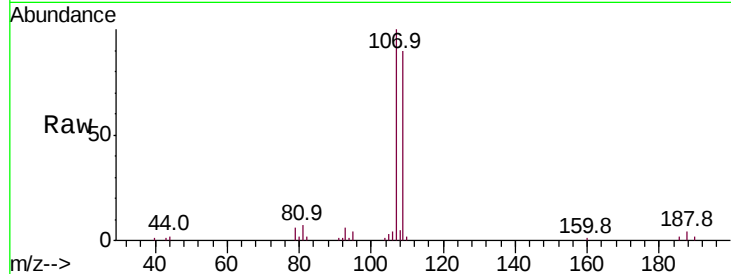
#61
1,2-Dibromoethane
Concen: 15.642 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.5	75.3	112.9

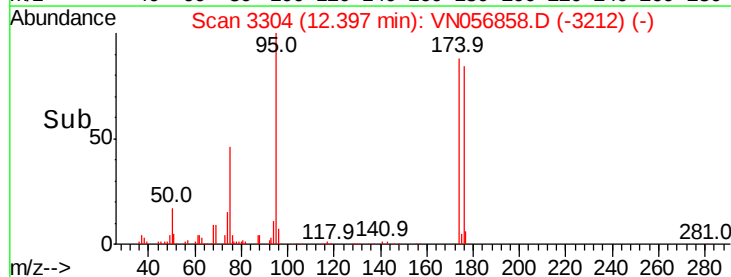
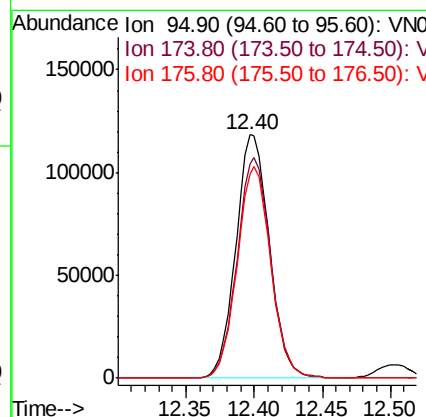
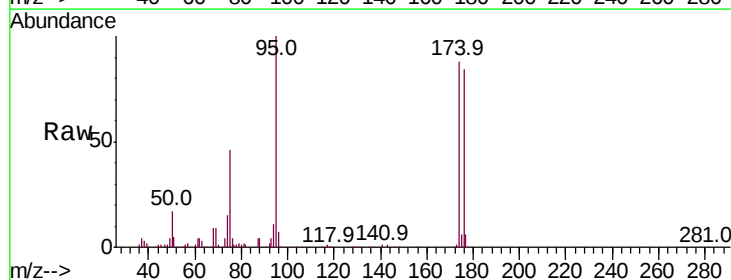
Manual Integrations
APPROVED

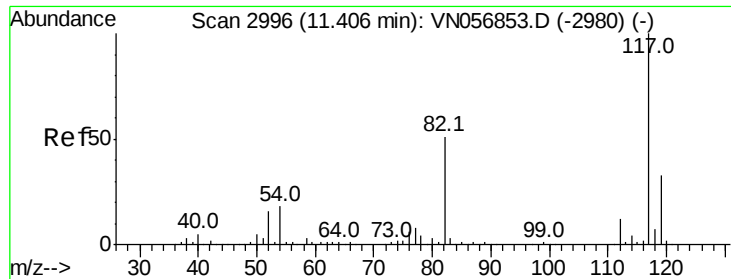
MMDadoda
7/25/2019 3:01:40 PM



#62
4-Bromofluorobenzene
Concen: 47.352 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.8	0.0	183.4
176	87.0	0.0	175.8





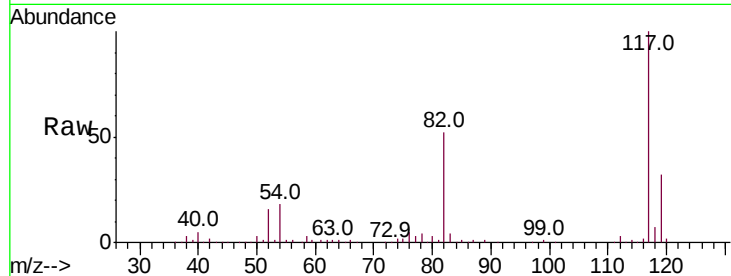
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	41.2	61.8
119	32.4	26.4	39.6

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:01:40 PM

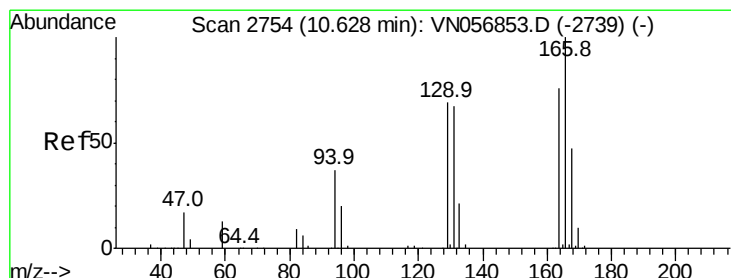
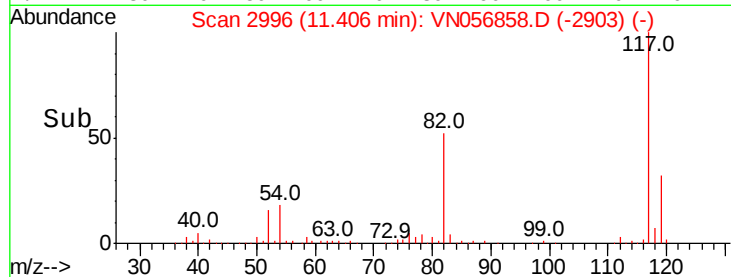
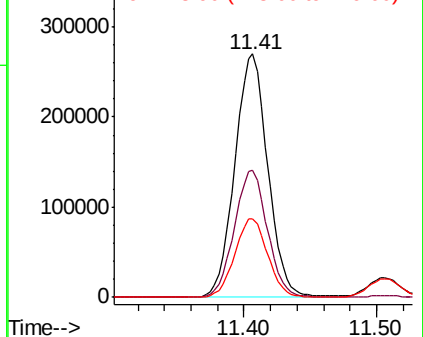


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 15.496 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.3	104.9	157.3
129	88.6	72.8	109.2
131	87.1	70.2	105.2

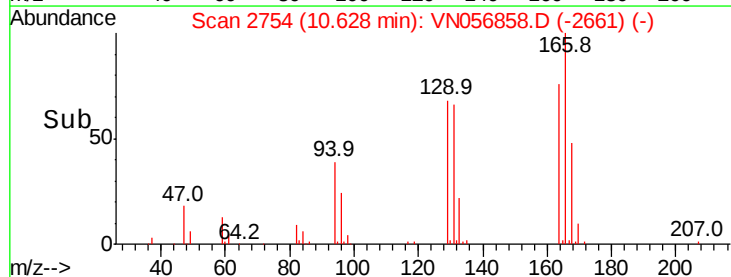
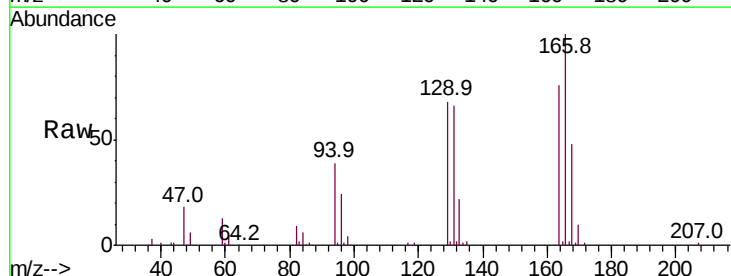
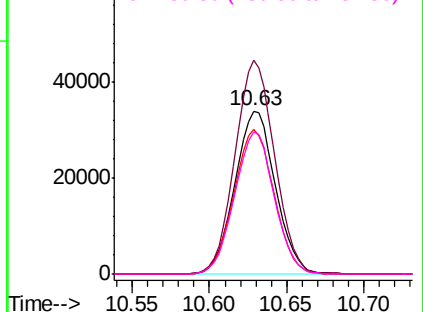
Abundance

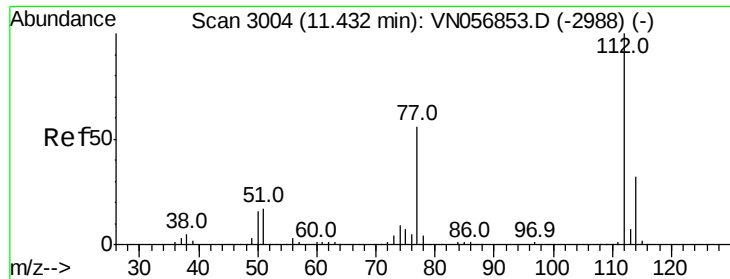
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





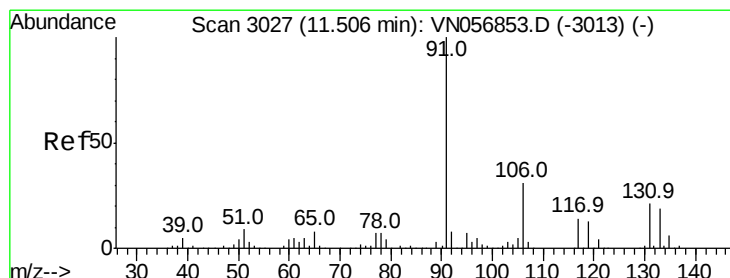
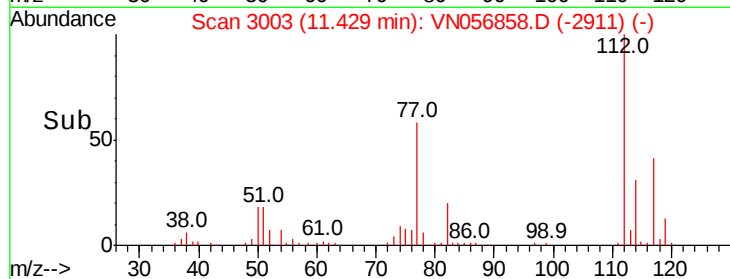
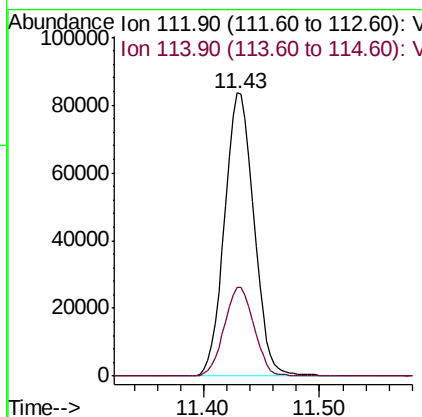
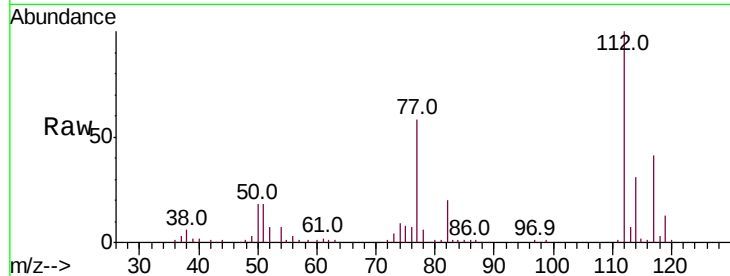
#65
Chlorobenzene
Concen: 15.121 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion:112 Resp: 146441
Ion Ratio Lower Upper
112 100
114 31.3 25.5 38.3

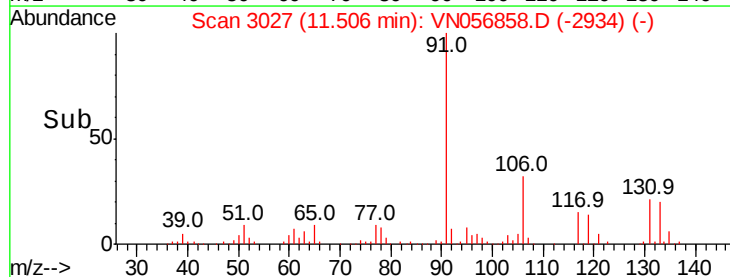
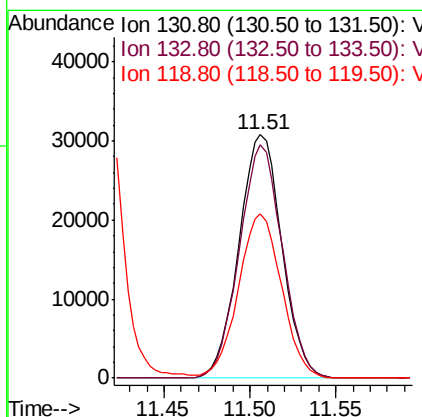
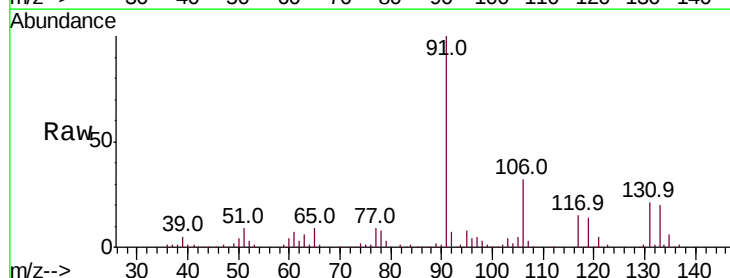
Manual Integrations
APPROVED

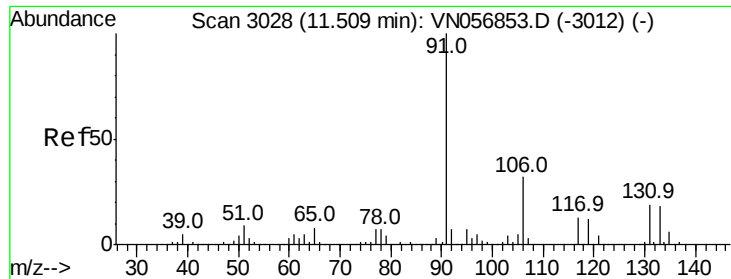
MMDadoda
7/25/2019 3:01:40 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 14.588 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion:131 Resp: 53260
Ion Ratio Lower Upper
131 100
133 96.1 47.4 142.3
119 67.8 33.1 99.5





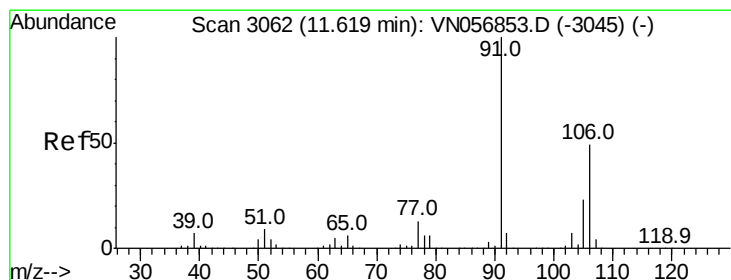
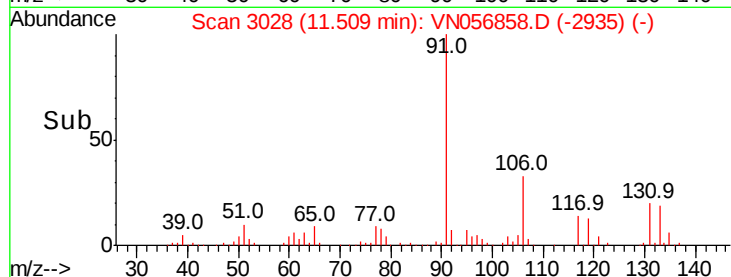
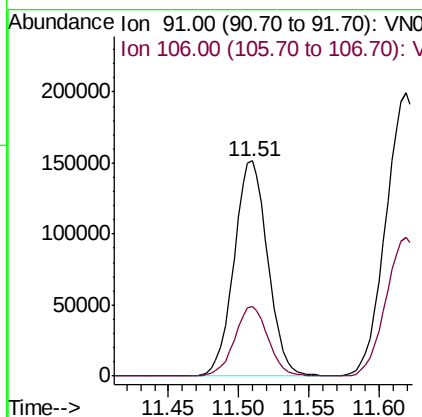
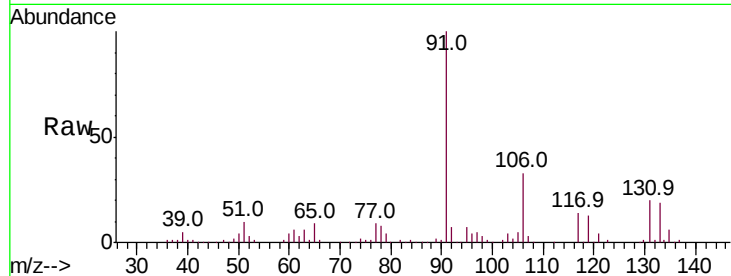
#67
Ethyl Benzene
Concen: 15.181 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion: 91 Resp: 253807
Ion Ratio Lower Upper
91 100
106 32.5 25.3 37.9

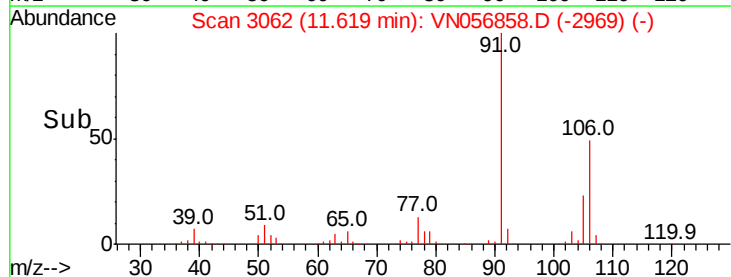
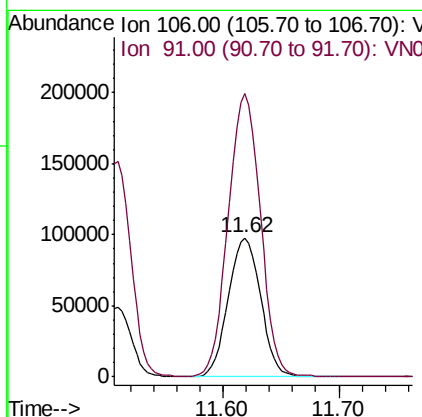
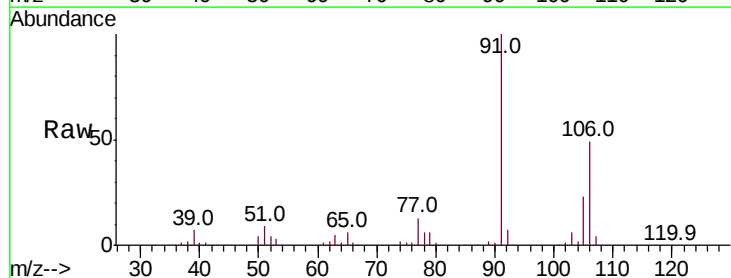
Manual Integrations
APPROVED

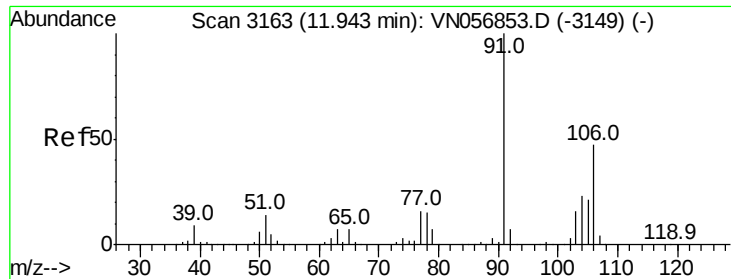
MMDadoda
7/25/2019 3:01:40 PM



#68
m/p-Xylenes
Concen: 30.278 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion: 106 Resp: 189505
Ion Ratio Lower Upper
106 100
91 202.8 160.5 240.7





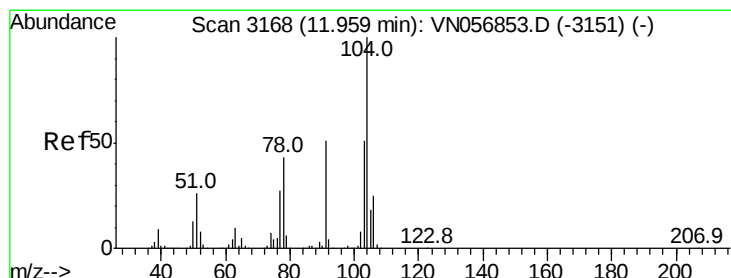
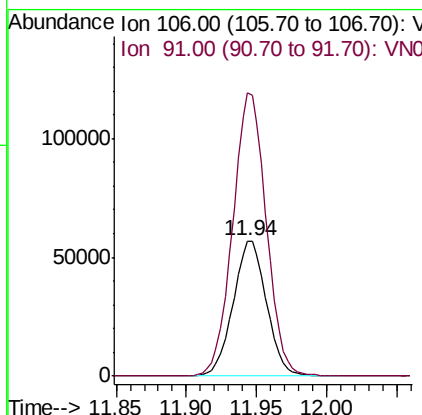
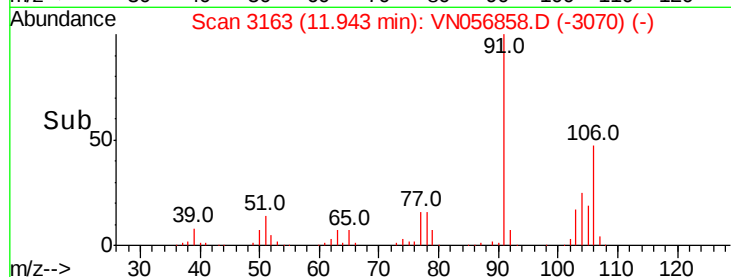
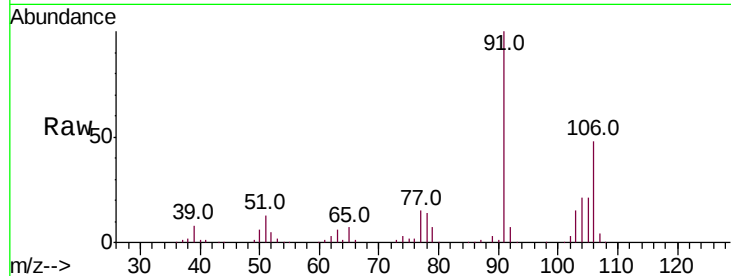
#69
o-Xylene
Concen: 15.469 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion:106 Resp: 94516
Ion Ratio Lower Upper
106 100
91 209.8 105.1 315.3

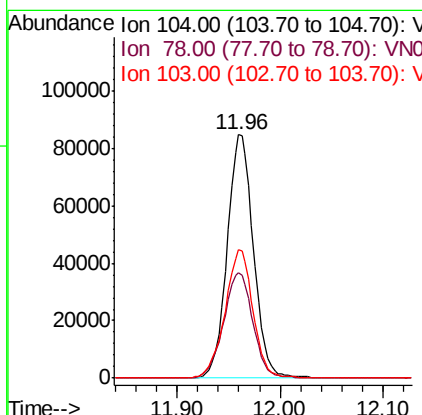
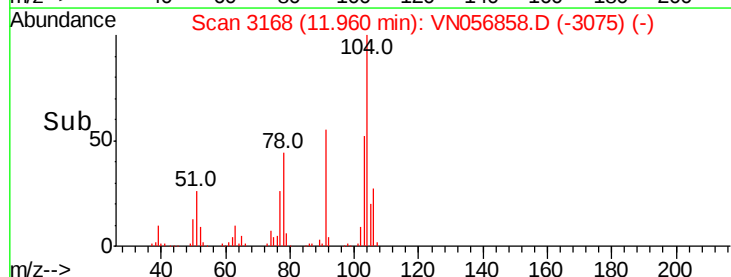
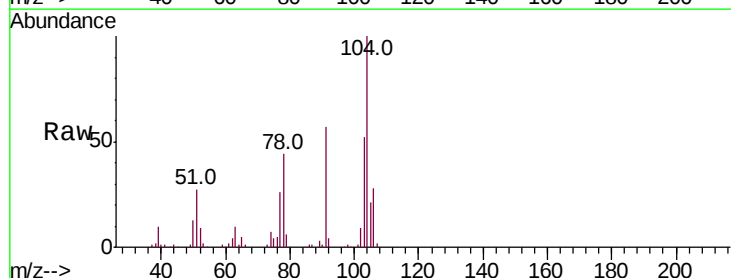
Manual Integrations
APPROVED

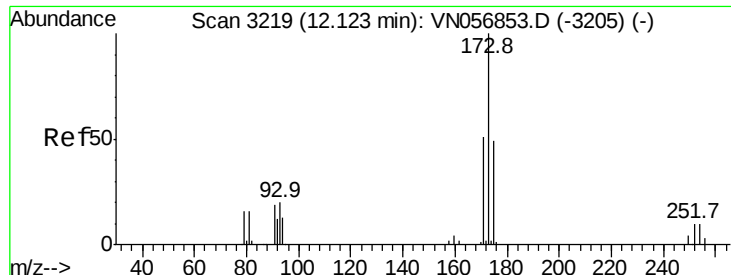
MMDadoda
7/25/2019 3:01:40 PM



#70
Styrene
Concen: 14.401 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion:104 Resp: 150400
Ion Ratio Lower Upper
104 100
78 48.2 38.1 57.1
103 56.0 44.2 66.4





#71

Bromoform

Concen: 14.388 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion:173 Resp: 36402

Ion Ratio Lower Upper

173 100

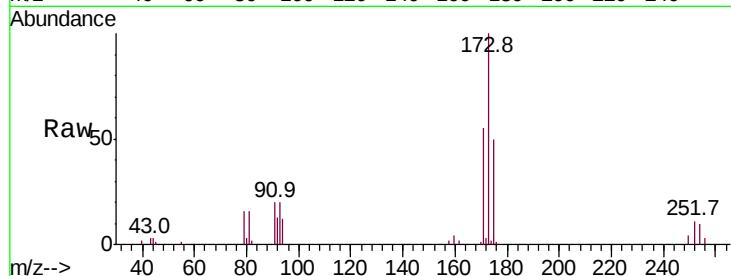
175 49.1 24.1 72.3

254 0.0 0.0 0.0

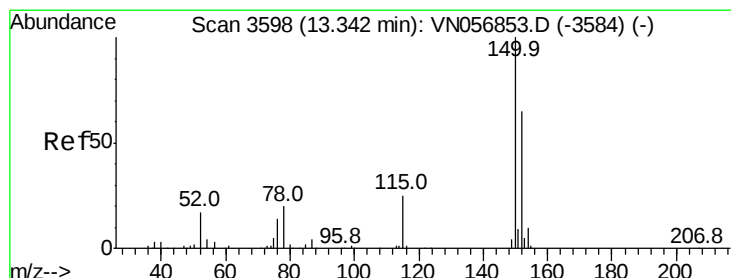
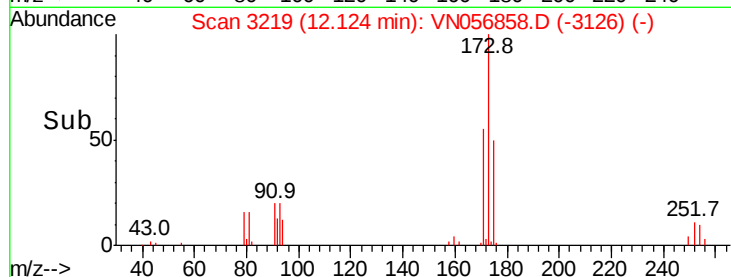
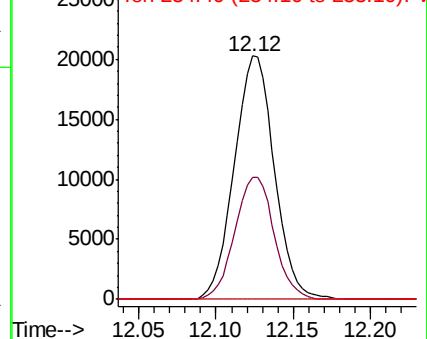
Manual Integrations
APPROVED

MMDadoda

7/25/2019 3:01:40 PM



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

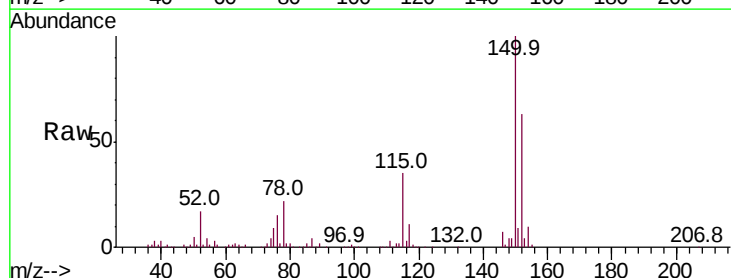
Tgt Ion:152 Resp: 182812

Ion Ratio Lower Upper

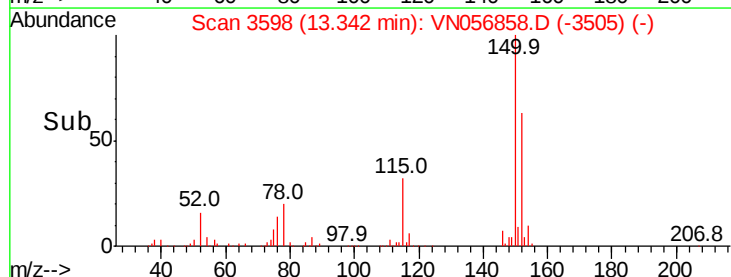
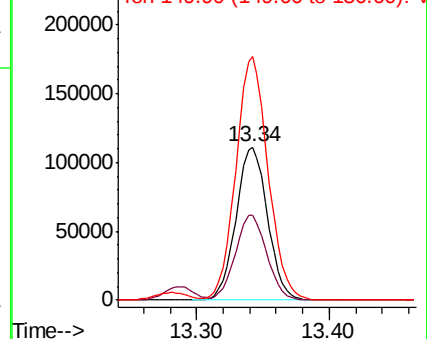
152 100

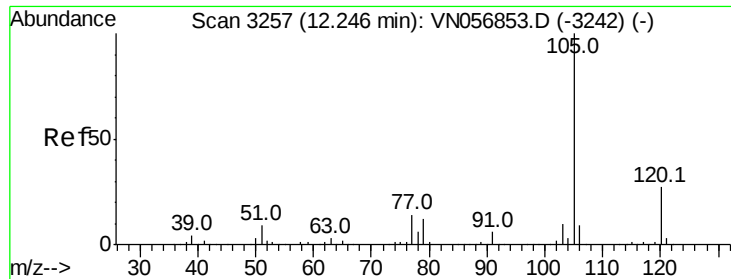
115 55.5 27.6 82.7

150 162.8 0.0 343.0



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: 14.884 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion:105 Resp: 242899

Ion Ratio Lower Upper

105 100

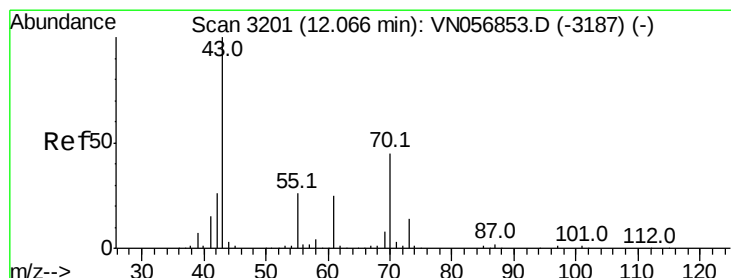
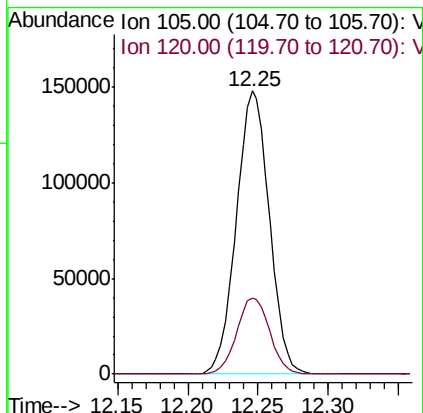
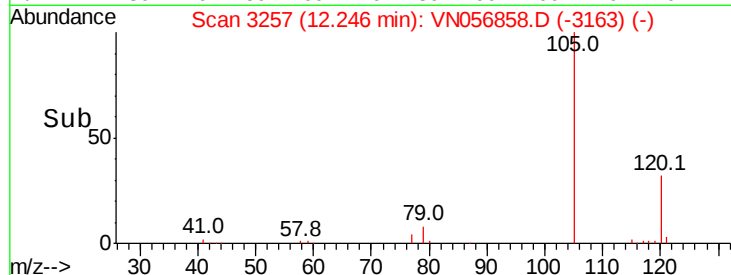
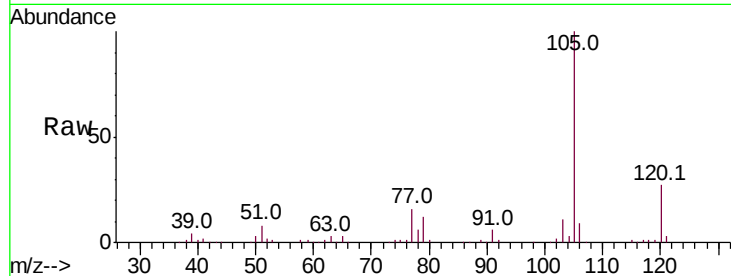
120 27.0 13.4 40.2

Manual Integrations

APPROVED

MMDadoda

7/25/2019 3:01:40 PM



#74

N-ethyl acetate

Concen: 14.836 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Tgt Ion: 43 Resp: 79633

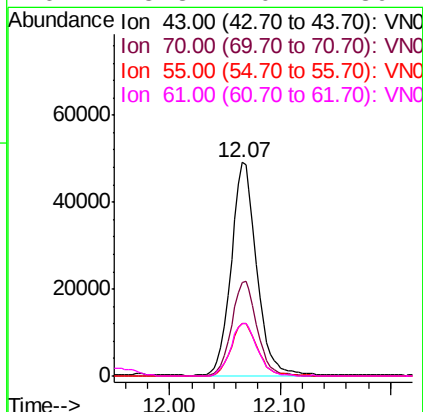
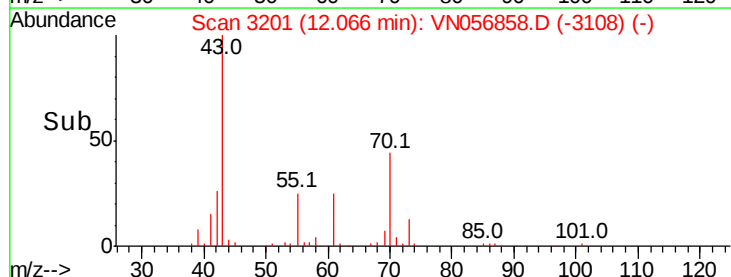
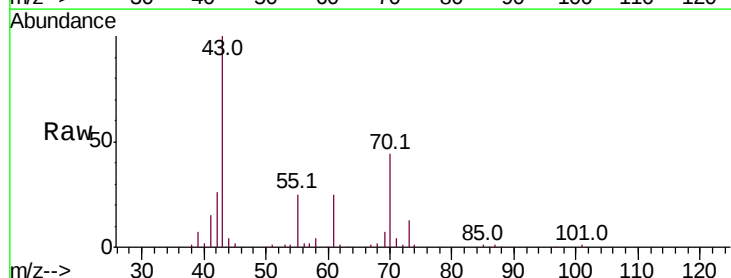
Ion Ratio Lower Upper

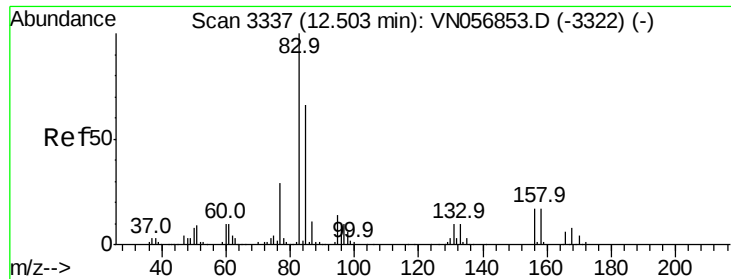
43 100

70 43.5 35.3 52.9

55 25.4 20.6 31.0

61 25.3 20.2 30.2





#75

1,1,2,2-Tetrachloroethane

Concen: 15.720 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

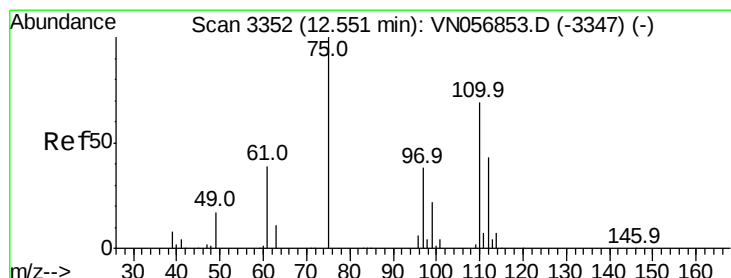
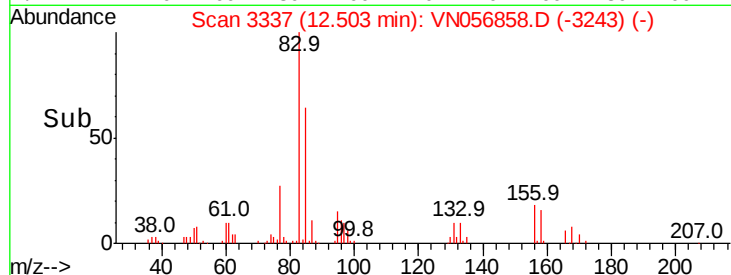
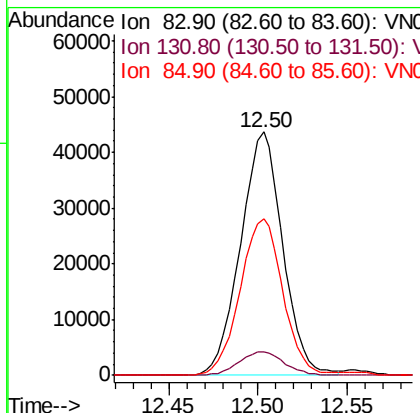
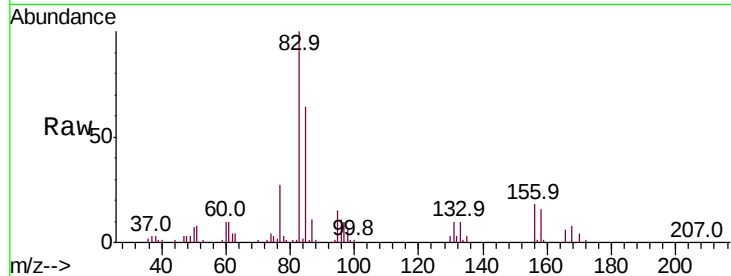
ClientSampleId :

VN0722WBS01

Tot Ion:	83	Resp:	72224
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.1	15.4
85	64.9	32.8	98.3

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:01:40 PM



#76

1,2,3-Trichloropropane

Concen: 16.050 ug/l m

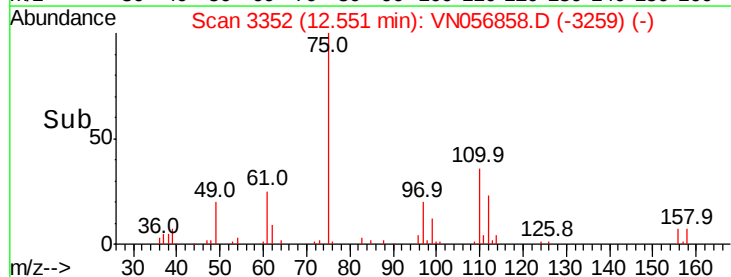
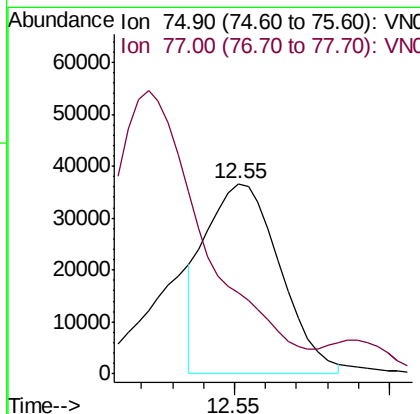
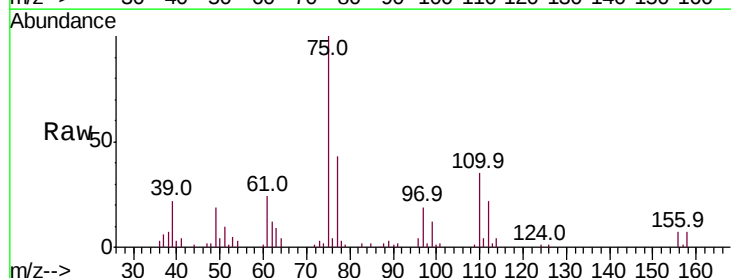
RT: 12.55 min Scan# 3352

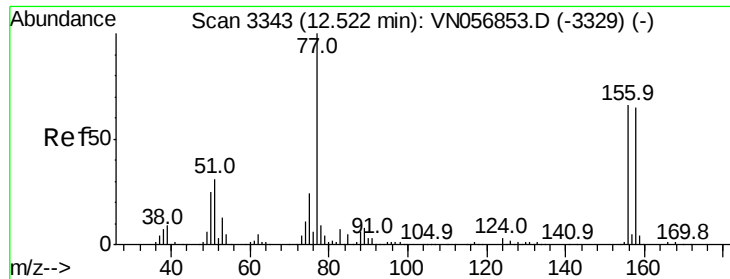
Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Tgt Ion:	75	Resp:	60807
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 15.767 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion:156 Resp: 62873

Ion Ratio Lower Upper

156 100

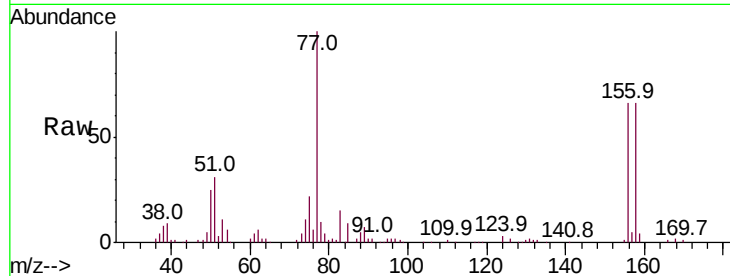
77 186.0 90.7 272.1

158 98.0 48.5 145.5

Manual Integrations
APPROVED

MMDadoda

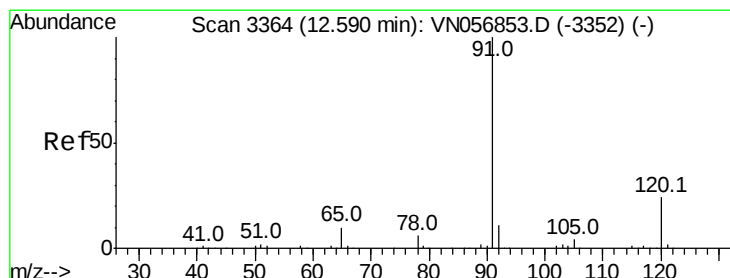
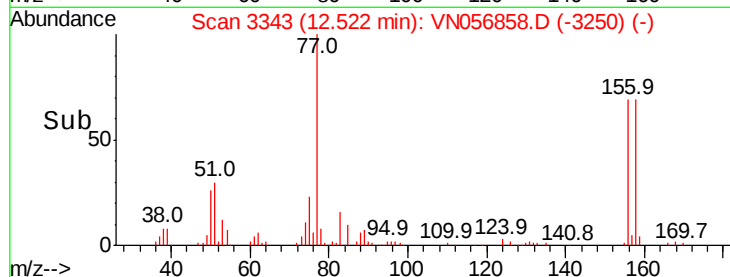
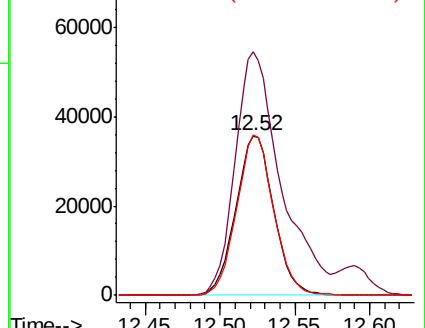
7/25/2019 3:01:40 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 15.638 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN056858.D

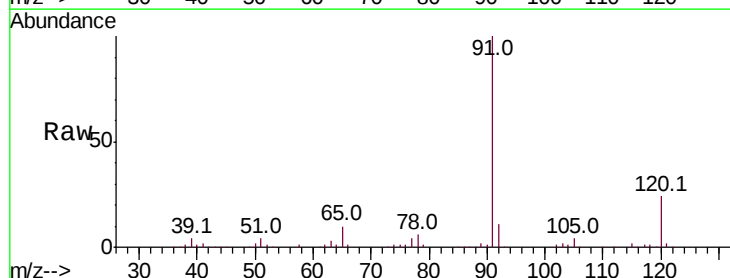
Acq: 22 Jul 2019 16:57

Tgt Ion: 91 Resp: 262773

Ion Ratio Lower Upper

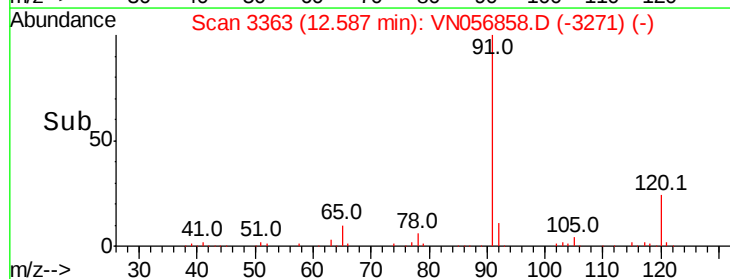
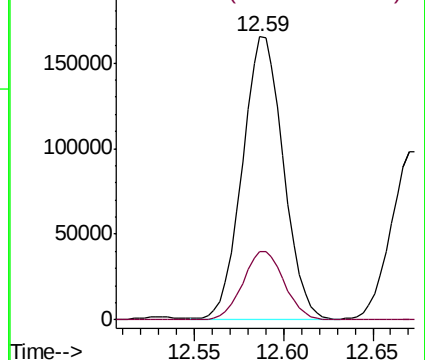
91 100

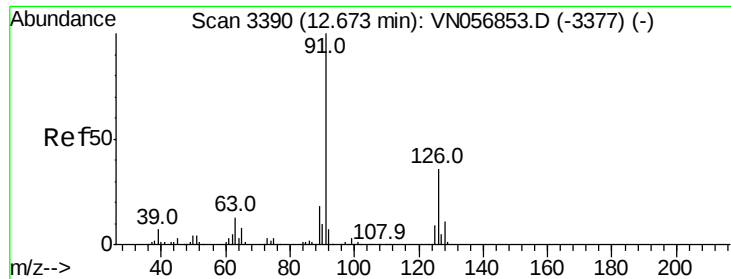
120 24.7 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 15.237 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion: 91 Resp: 161119

Ion Ratio Lower Upper

91 100

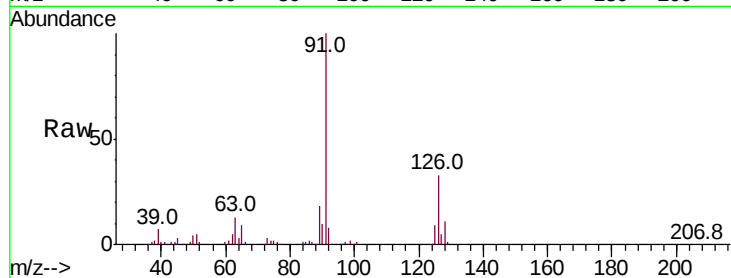
126 35.2 17.8 53.5

Manual Integrations

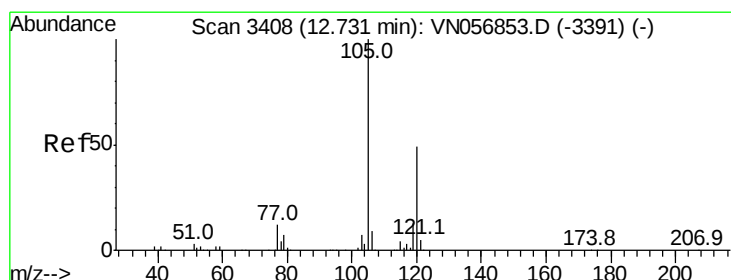
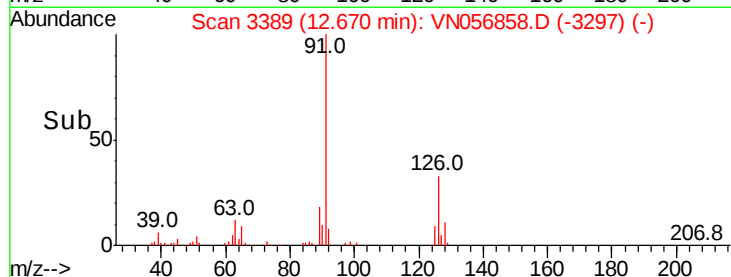
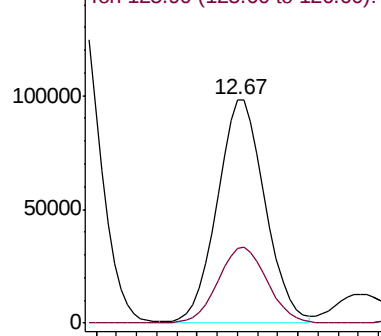
APPROVED

MMDadoda

7/25/2019 3:01:40 PM



Abundance Ion 91.00 (90.70 to 91.70): VN056858.D (-3377) (-)



#80

1,3,5-Trimethylbenzene

Concen: 15.116 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056858.D

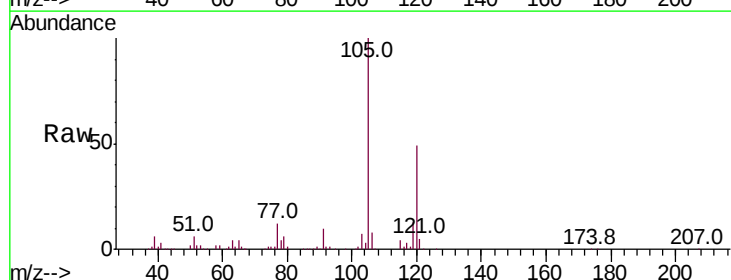
Acq: 22 Jul 2019 16:57

Tgt Ion:105 Resp: 205920

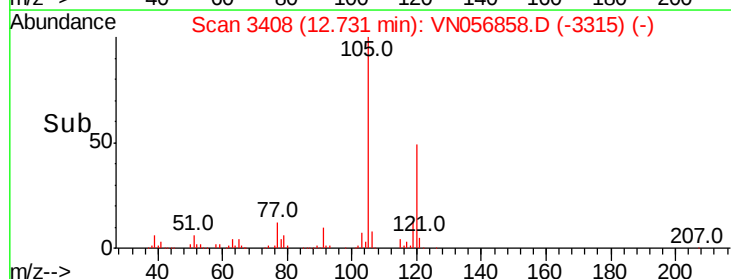
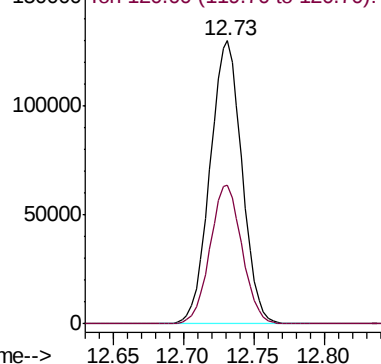
Ion Ratio Lower Upper

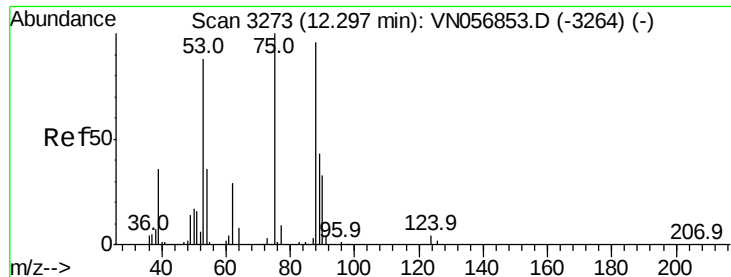
105 100

120 49.2 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VN056858.D (-3391) (-)





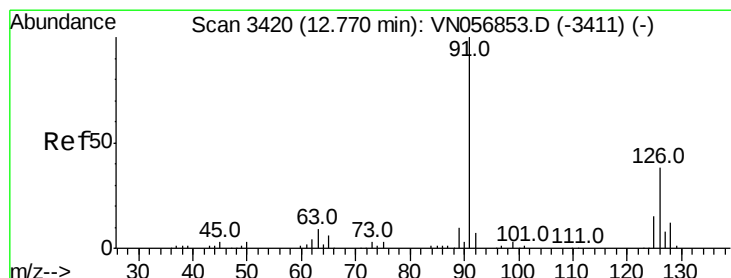
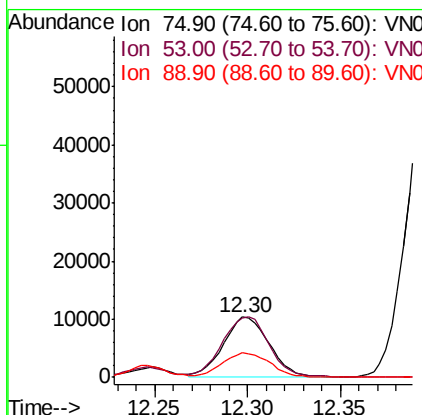
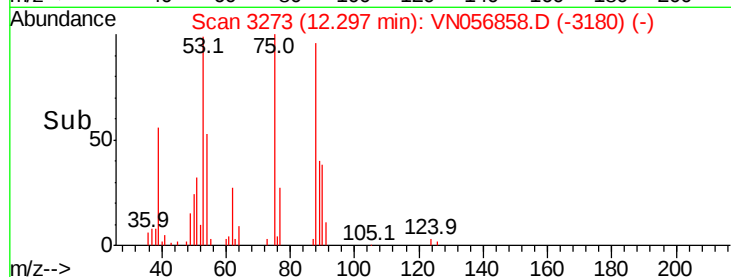
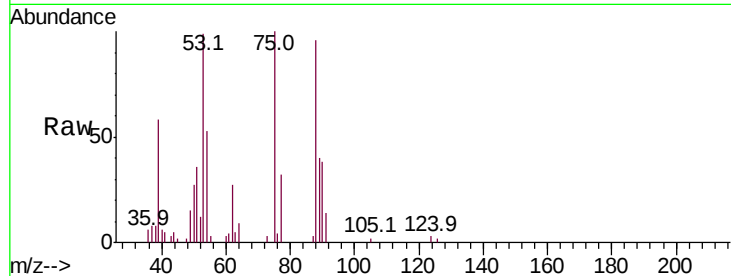
#81
trans-1,4-Dichloro-2-butene
Concen: 15.099 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	103.0	72.3	108.5
89	41.7	36.2	54.4

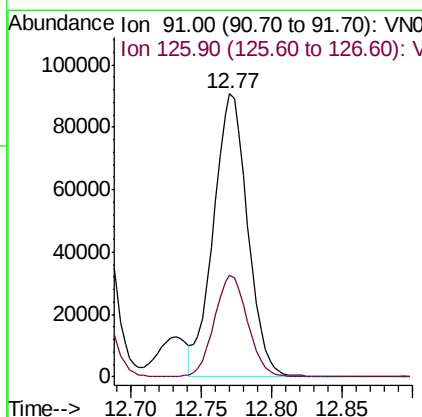
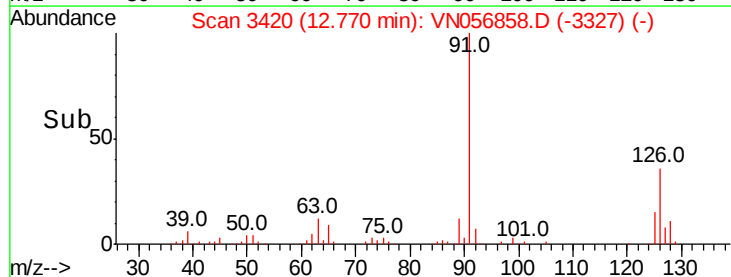
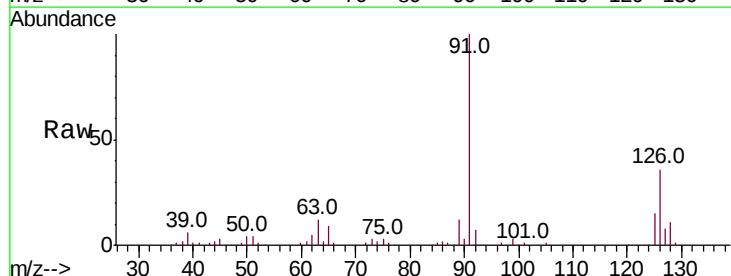
Manual Integrations
APPROVED

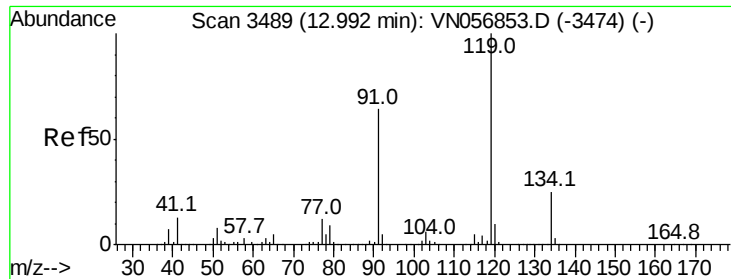
MMDadoda
7/25/2019 3:01:40 PM



#82
4-Chlorotoluene
Concen: 15.179 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.3	52.0





#83

tert-Butylbenzene

Concen: 15.430 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056858.D

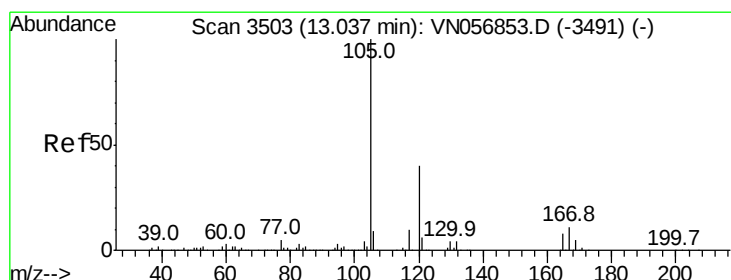
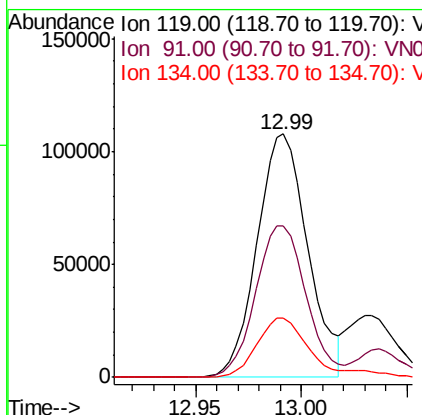
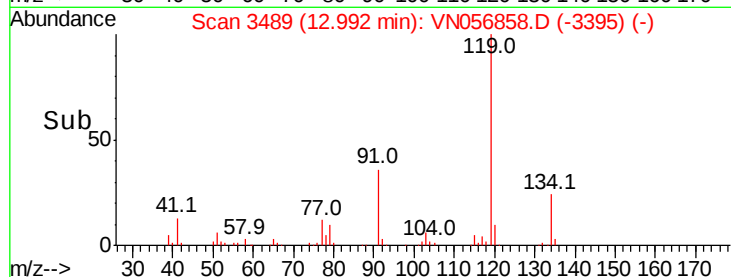
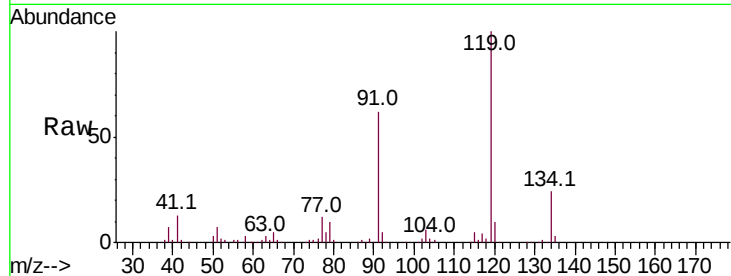
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	180506		
91	62.3		31.5	94.5
134	26.0		12.2	36.6

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:01:40 PM



#84

1,2,4-Trimethylbenzene

Concen: 16.005 ug/l

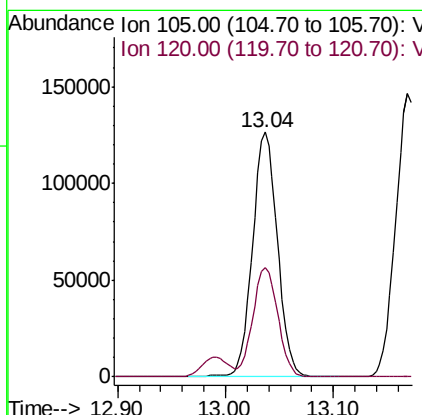
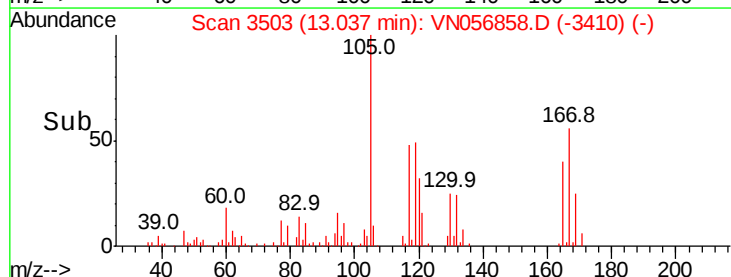
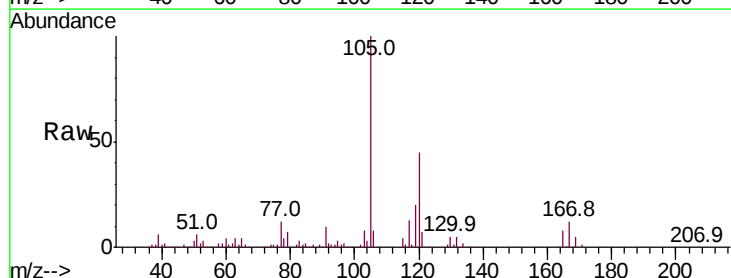
RT: 13.04 min Scan# 3503

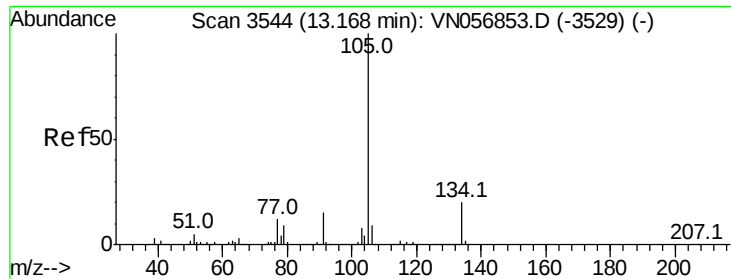
Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	202703		
120	45.1		23.2	69.5





#85

sec-Butylbenzene

Concen: 15.776 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN0722WBS01

Tot Ion:105 Resp: 234795

Ion Ratio Lower Upper

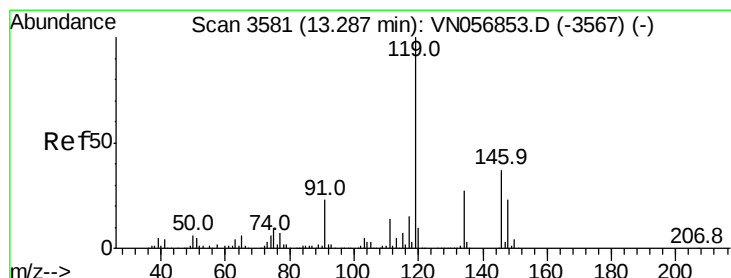
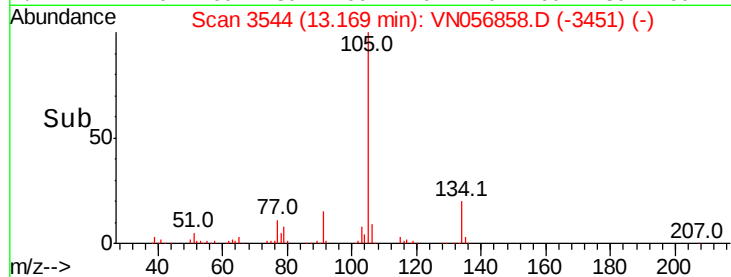
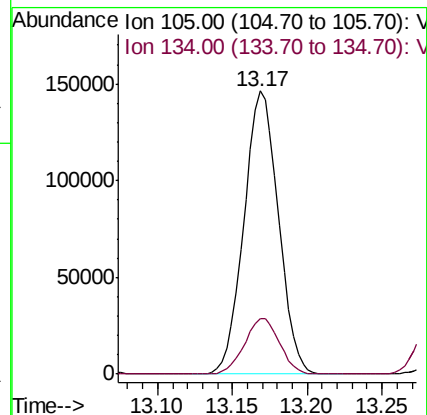
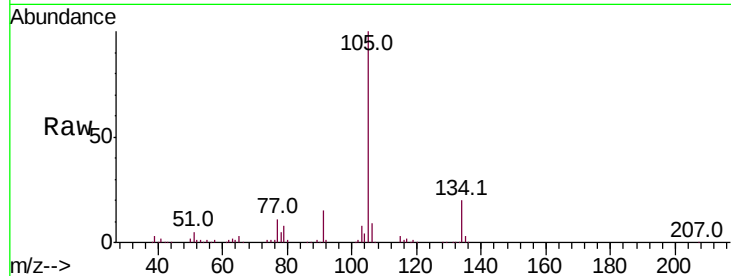
105 100

134 20.0 10.1 30.1

Manual Integrations
APPROVED

MMDadoda

7/25/2019 3:01:40 PM



#86

p-Isopropyltoluene

Concen: 15.615 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

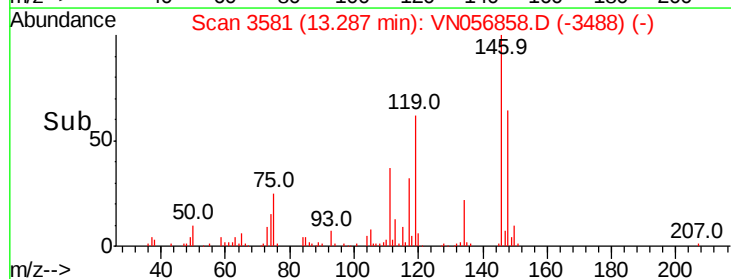
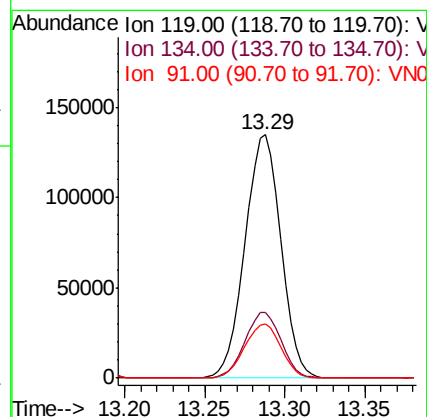
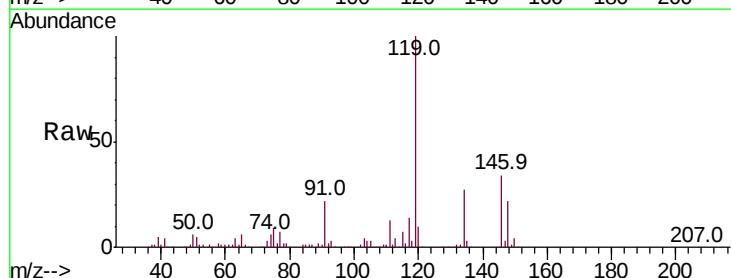
Tgt Ion:119 Resp: 207042

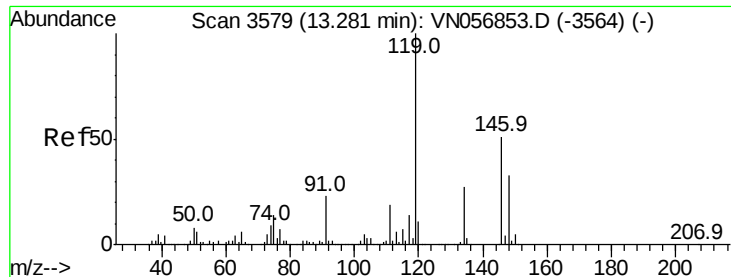
Ion Ratio Lower Upper

119 100

134 27.1 13.6 40.8

91 22.7 11.3 33.8





#87

1,3-Dichlorobenzene

Concen: 15.204 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

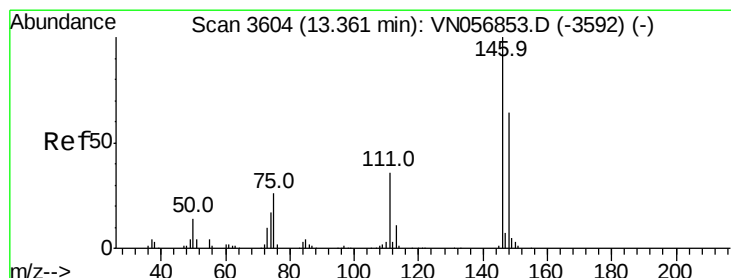
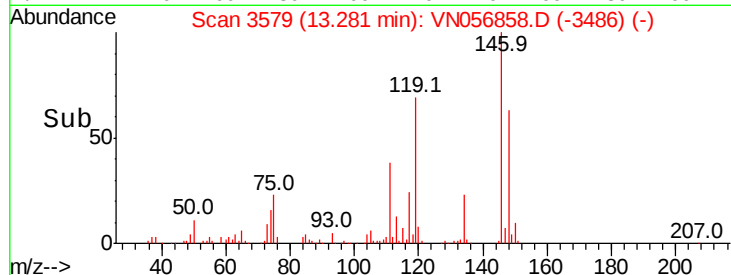
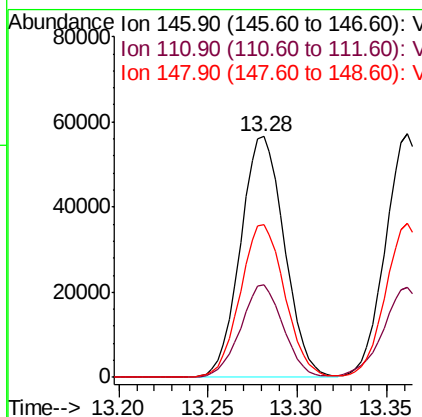
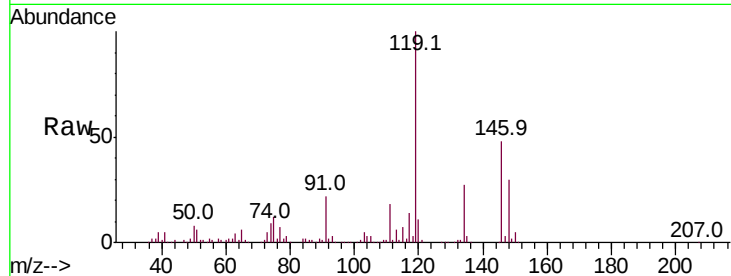
ClientSampleId :

VN0722WBS01

Tot Ion:	146	Resp:	97181
Ion Ratio	Lower	Upper	
146	100		
111	37.2	18.9	56.5
148	64.2	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:01:40 PM



#88

1,4-Dichlorobenzene

Concen: 15.303 ug/l

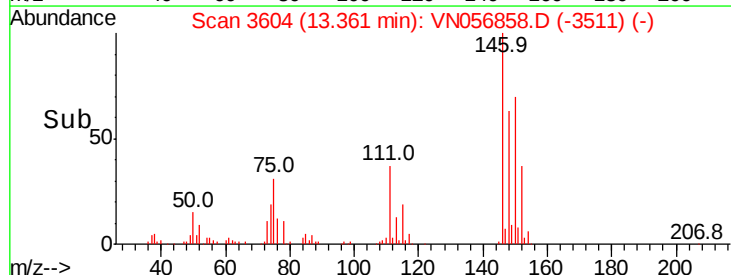
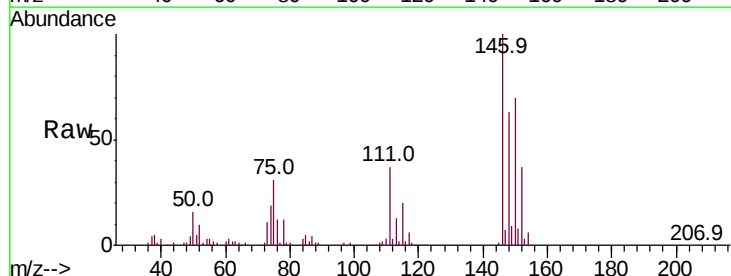
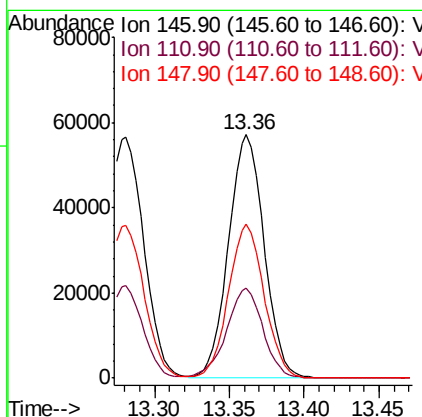
RT: 13.36 min Scan# 3604

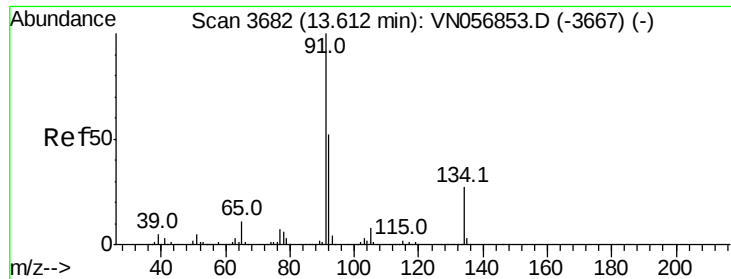
Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Tgt Ion:	146	Resp:	95028
Ion Ratio	Lower	Upper	
146	100		
111	37.9	18.3	54.9
148	63.1	32.1	96.3





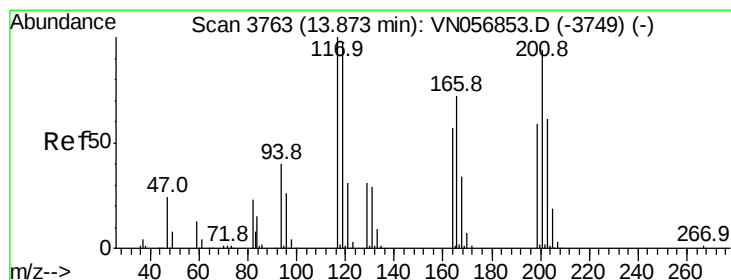
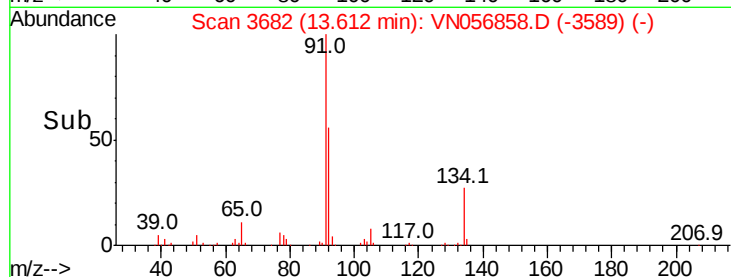
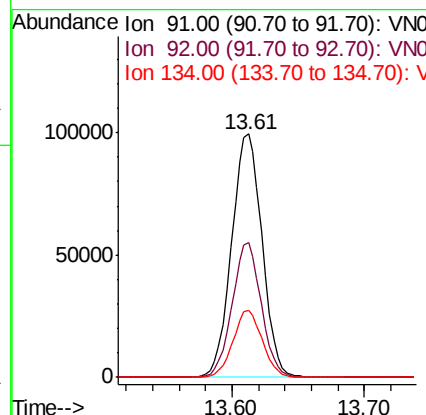
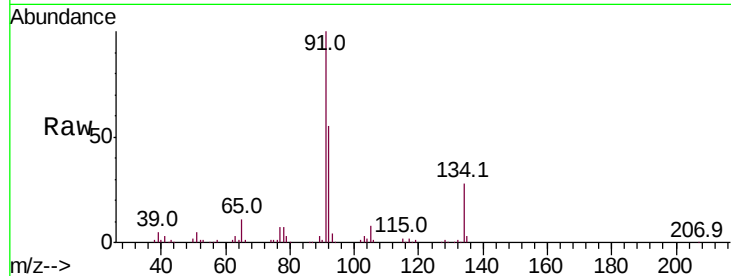
#89
n-Butylbenzene
Concen: 15.539 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN0722WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.0	78.0
134	26.6	13.3	39.9

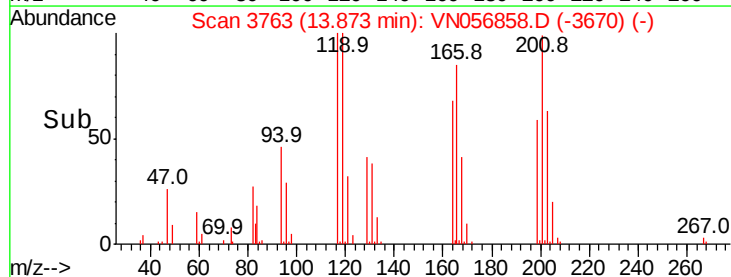
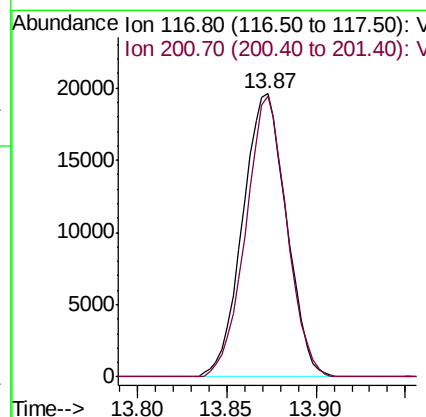
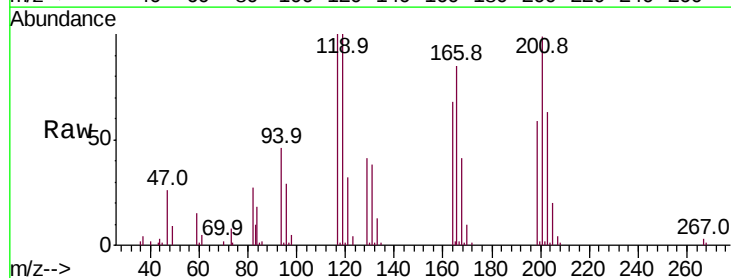
Manual Integrations
APPROVED

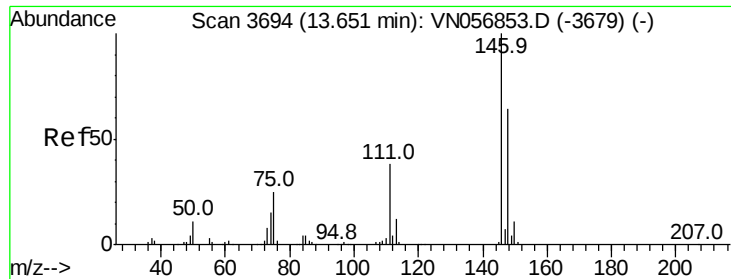
MMDadoda
7/25/2019 3:01:40 PM



#90
Hexachloroethane
Concen: 14.523 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN056858.D
Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.1	47.1	141.3





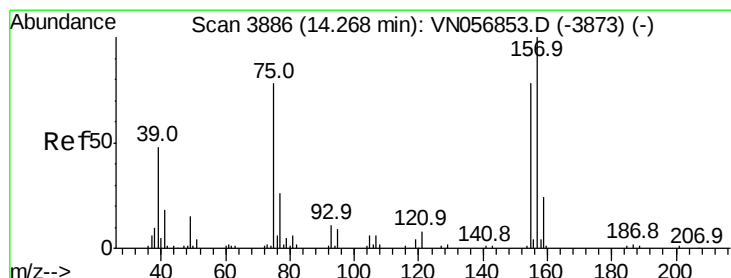
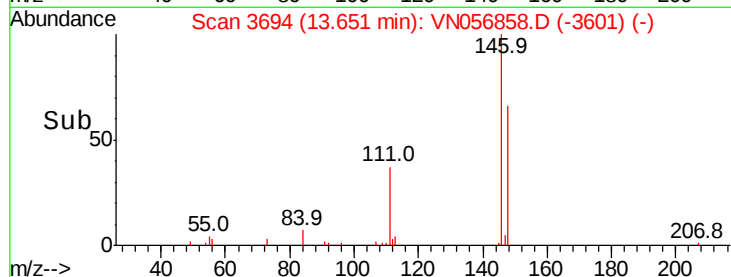
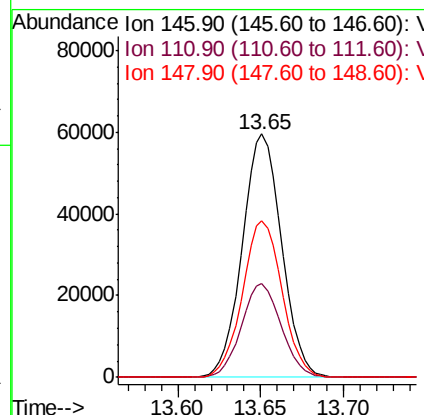
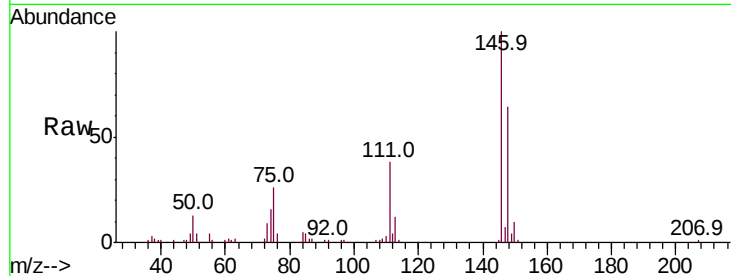
#91
 1,2-Dichlorobenzene
 Concen: 15.298 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.1	57.5
148	64.7	32.1	96.5

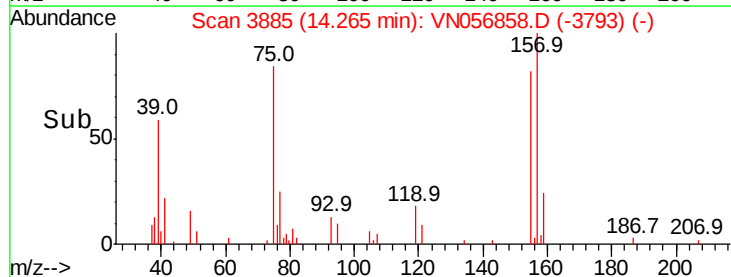
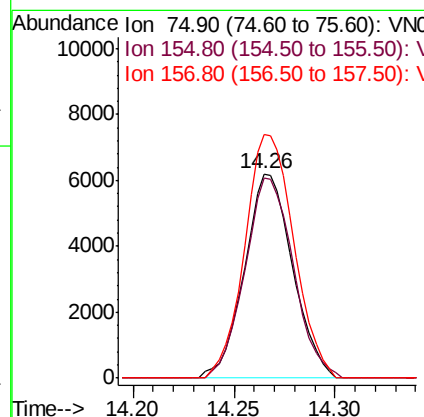
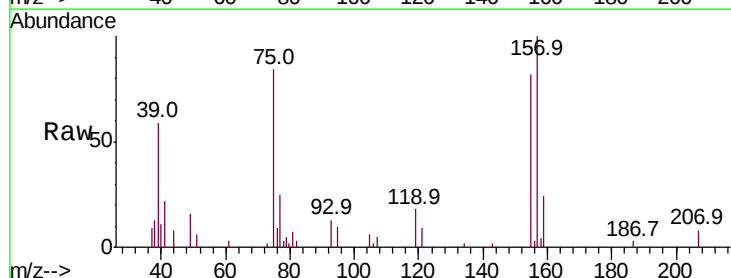
Manual Integrations
 APPROVED

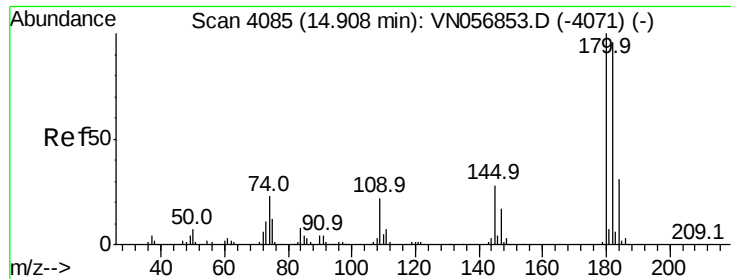
MMDadoda
 7/25/2019 3:01:40 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 14.768 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.7	49.9	149.6
157	121.6	64.8	194.4





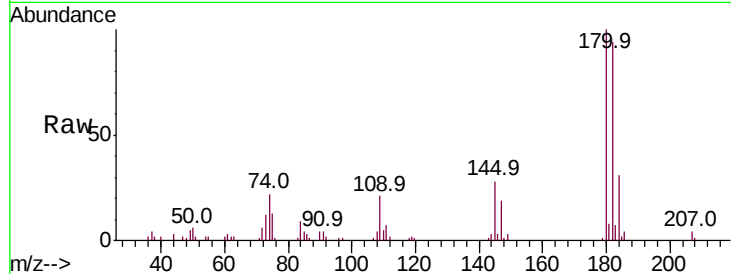
#93
 1,2,4-Trichlorobenzene
 Concen: 14.034 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0722WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.9	143.7
145	27.5	14.1	42.3

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 3:01:40 PM

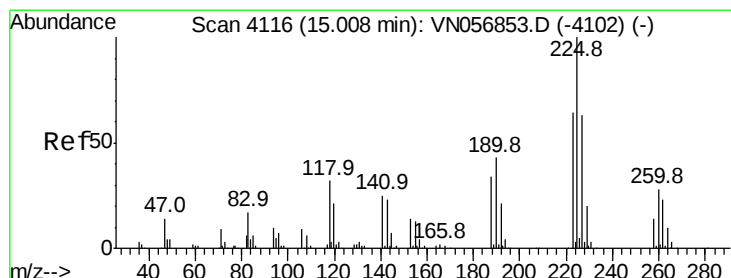
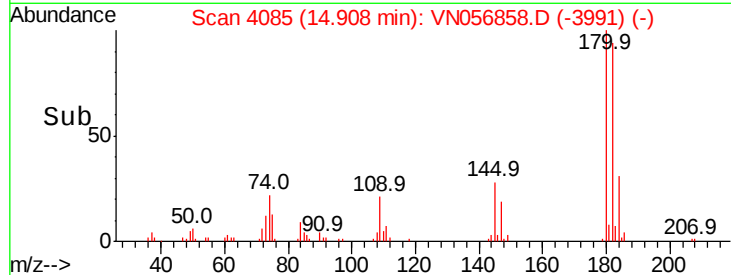
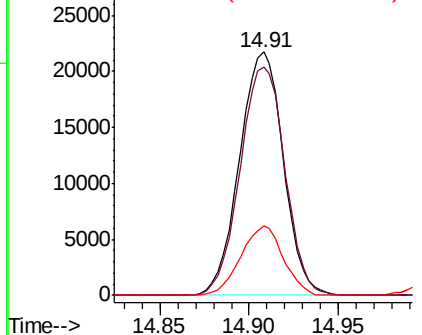


Abundance

Ion 179.80 (179.50 to 180.50): V

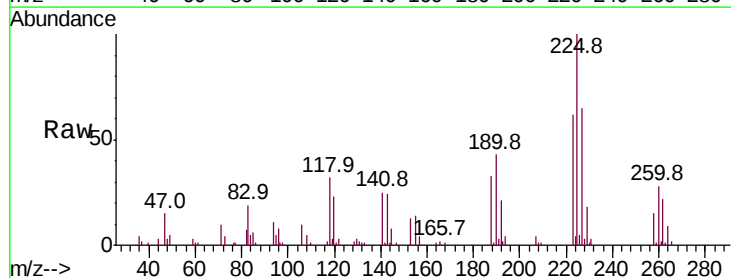
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 16.593 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN056858.D
 Acq: 22 Jul 2019 16:57

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.9	95.5
227	65.2	31.7	95.1

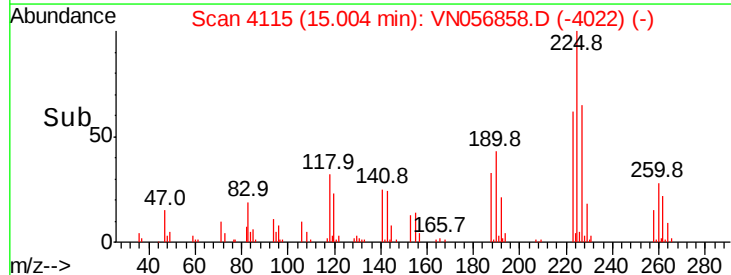
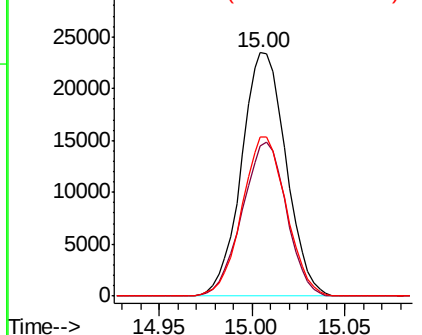


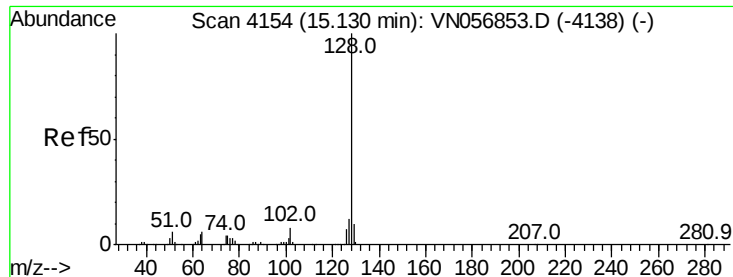
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 13.192 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Instrument :

MSVOA_N

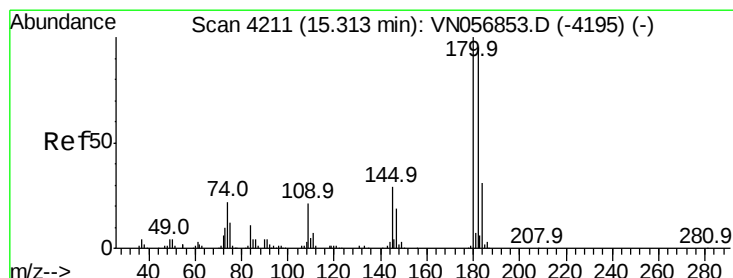
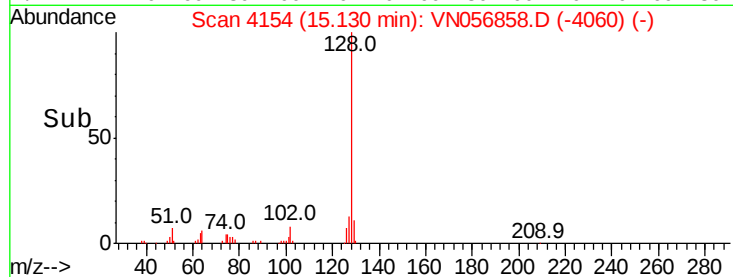
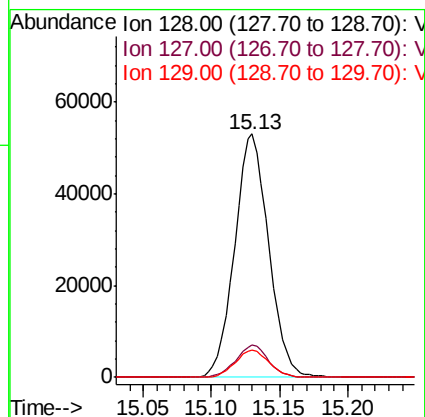
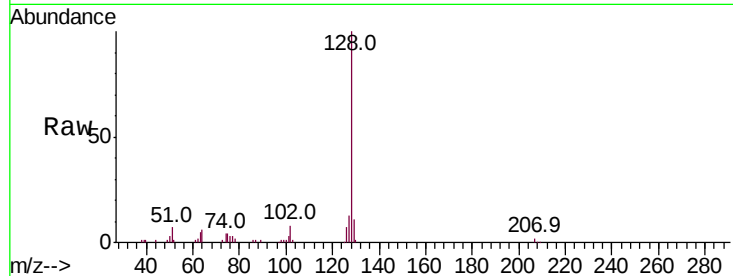
ClientSampleId :

VN0722WBS01

Tot Ion:	128	Resp:	91758
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.2	15.2
129	11.1	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:01:40 PM



#96

1,2,3-Trichlorobenzene

Concen: 14.112 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN056858.D

Acq: 22 Jul 2019 16:57

Tgt Ion:	180	Resp:	43182
Ion Ratio	Lower	Upper	
180	100		
182	94.3	48.1	144.3
145	29.7	14.7	44.1

