

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061419\
 Data File : VN056323.D
 Acq On : 14 Jun 2019 19:37
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 9:45:22 AM

Quant Time: Jun 14 23:51:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	59309	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	317039	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	278278	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	120083	32.60	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	108.67%
60) 4-Bromofluorobenzene	12.40	95	121809	29.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.43%
63) Toluene-d8	10.09	98	391505	31.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	72646	21.778	ug/l 98
3) Chloromethane	2.06	50	84152	21.591	ug/l 99
4) Vinyl Chloride	2.18	62	85478	21.511	ug/l 99
5) Bromomethane	2.54	94	48298	19.340	ug/l 97
6) Chloroethane	2.69	64	47980	21.347	ug/l 95
7) Trichlorofluoromethane	3.01	101	103069	20.963	ug/l 97
8) Diethyl Ether	3.40	74	41601	19.950	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.74	101	64323	21.194	ug/l 98
10) 1,1-Dichloroethene	3.72	96	62743	20.266	ug/l 95
11) Methyl Iodide	3.94	142	80234	16.426	ug/l 99
12) Methyl Acetate	4.33	43	83593	22.470	ug/l 94
13) Acrolein	3.60	56	19998	110.285	ug/l 98
14) Acrylonitrile	4.99	53	181779	109.567	ug/l 99
15) Acetone	3.82	58	55959	103.012	ug/l 95
16) Carbon Disulfide	4.04	76	145970	19.816	ug/l 99
17) Allyl chloride	4.32	41	100905	21.036	ug/l 99
18) Methylene Chloride	4.54	84	77549	21.637	ug/l 96
19) trans-1,2-Dichloroethene	5.04	96	66678	20.177	ug/l 89
20) Diisopropyl ether	5.96	45	217305	21.865	ug/l 98
21) 1,1-Dichloroethane	5.85	63	124955	21.635	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	80386	20.841	ug/l 97
23) tert-Butyl Alcohol	4.81	59	56815	87.980	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	202700	20.544	ug/l 98
25) Chloroform	7.37	83	125695	21.794	ug/l 100
26) Cyclohexane	7.65	56	109655	20.464	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	89701	20.917	ug/l 99
30) 2-Butanone	6.85	43	247603	109.672	ug/l 98
31) 2,2-Dichloropropane	6.82	77	80260	20.118	ug/l 96
32) 1,1,1-Trichloroethane	7.57	97	101587	21.440	ug/l 98
33) Carbon Tetrachloride	7.77	117	87056	21.687	ug/l 98
34) Benzene	8.04	78	286505	20.968	ug/l 97
35) Methacrylonitrile	7.18	41	42757	22.427	ug/l 95
36) 1,2-Dichloroethane	8.13	62	95616	22.340	ug/l 95
37) Trichloroethene	8.83	130	76287	19.952	ug/l 94
38) Methylcyclohexane	9.08	83	107955	19.857	ug/l 98
39) 1,2-Dichloropropane	9.12	63	77140	22.043	ug/l 91
40) Dibromomethane	9.21	93	50844	21.912	ug/l 95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061419\
 Data File : VN056323.D
 Acq On : 14 Jun 2019 19:37
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 9:45:22 AM

Quant Time: Jun 14 23:51:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	94931	22.848	ug/l	100
42) Vinyl Acetate	5.90	43	878656	109.164	ug/l	98
43) Ethyl Acetate	6.94	43	87523	20.256	ug/l	96
44) Isopropyl Acetate	8.17	43	137232	20.456	ug/l	99
45) 1,4-Dioxane	9.21	88	28012	390.323	ug/l	93
46) Methyl methacrylate	9.20	41	72077	21.627	ug/l	95
47) n-amyl Acetate	12.07	43	111748	20.142	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	87922	20.107	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	107039	20.905	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	72664	21.084	ug/l	98
51) Ethyl methacrylate	10.43	69	102989	19.752	ug/l	97
52) 1,3-Dichloropropane	10.71	76	121468	21.740	ug/l	99
53) Dibromochloromethane	10.90	129	72597	21.518	ug/l	99
54) 1,2-Dibromoethane	11.00	107	75184	20.905	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	158626	86.856	ug/l	98
56) Bromoform	12.13	173	51630	21.154	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	464539	110.242	ug/l	97
59) 2-Hexanone	10.75	43	328186	108.966	ug/l	99
61) Tetrachloroethene	10.63	164	74992	19.336	ug/l	99
62) Toluene	10.16	91	309540	20.605	ug/l	99
64) Chlorobenzene	11.43	112	189624	20.810	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	71381	21.724	ug/l	98
66) Ethyl Benzene	11.51	91	326617	20.413	ug/l	97
67) m/p-Xylenes	11.62	106	241100	39.367	ug/l	94
68) o-Xylene	11.95	106	120670	20.126	ug/l	98
69) Styrene	11.96	104	190531	19.559	ug/l	98
70) Isopropylbenzene	12.25	105	316244	20.188	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	103129	21.836	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	83969m	20.537	ug/l	
73) Bromobenzene	12.53	156	81035	19.489	ug/l	95
74) n-propylbenzene	12.59	91	326963	19.778	ug/l	99
75) 2-Chlorotoluene	12.67	91	207395	20.226	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	256707	19.922	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	22267	19.086	ug/l	93
78) 4-Chlorotoluene	12.77	91	184920	19.310	ug/l	99
79) tert-butylbenzene	12.99	119	232121	20.332	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	243847	19.453	ug/l	99
81) sec-Butylbenzene	13.17	105	289237	20.028	ug/l	99
82) p-Isopropyltoluene	13.29	119	244525	18.727	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	118766	18.328	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	107665	17.443	ug/l	99
85) n-Butylbenzene	13.62	91	161289	16.551	ug/l	99
86) Hexachloroethane	13.88	117	44160	21.694	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	121805	18.493	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	15025	20.266	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	38573	16.903	ug/l	100
90) Hexachlorobutadiene	15.01	225	44513	18.512	ug/l	99
91) Naphthalene	15.13	128	110442	12.625	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	48128	13.959	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061419\
Data File : VN056323.D
Acq On : 14 Jun 2019 19:37
Operator : JC/SP
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM

Quant Time: Jun 14 23:51:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

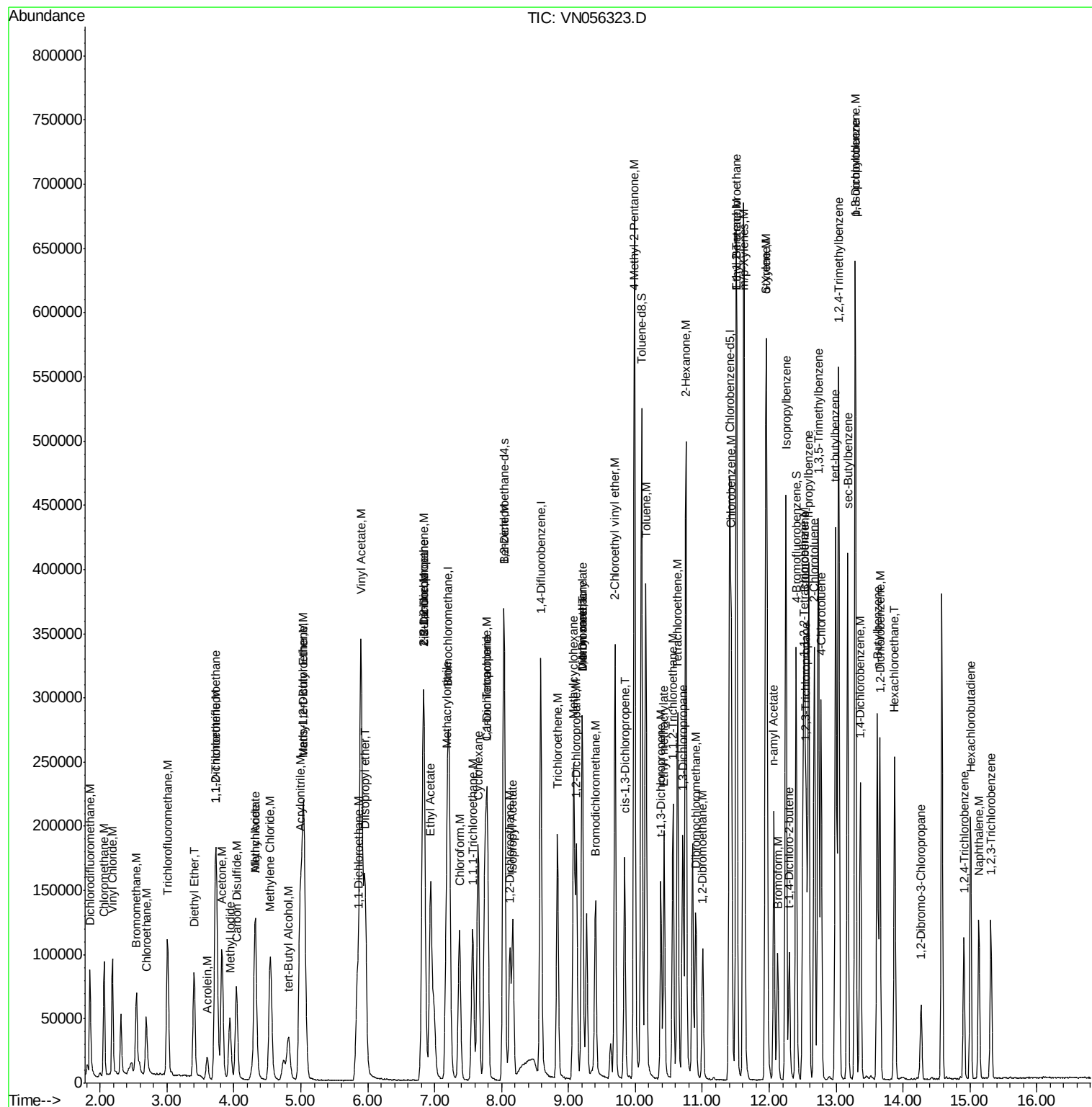
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061419\
Data File : VN056323.D
Acq On : 14 Jun 2019 19:37
Operator : JC/SP
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 25 Sample Multiplier: 1

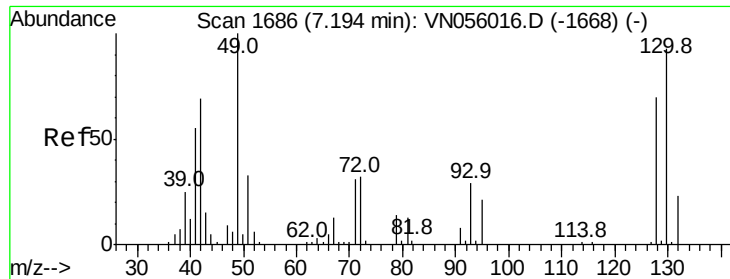
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM

Quant Time: Jun 14 23:51:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 2019
Response via : Initial Calibration





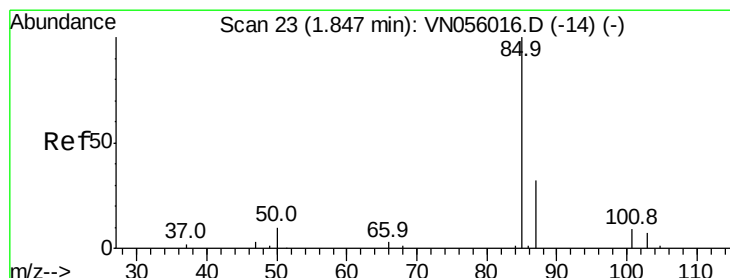
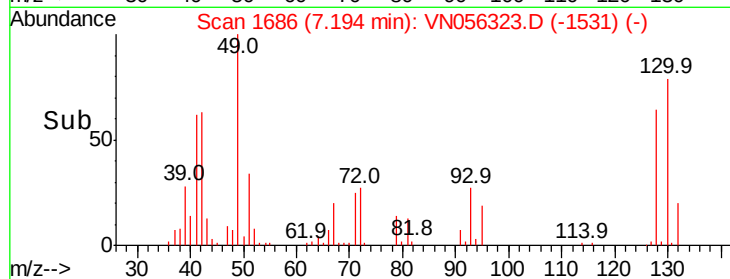
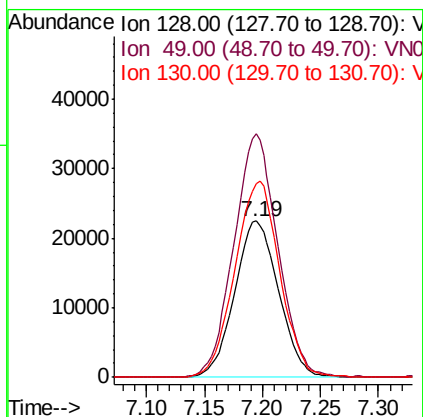
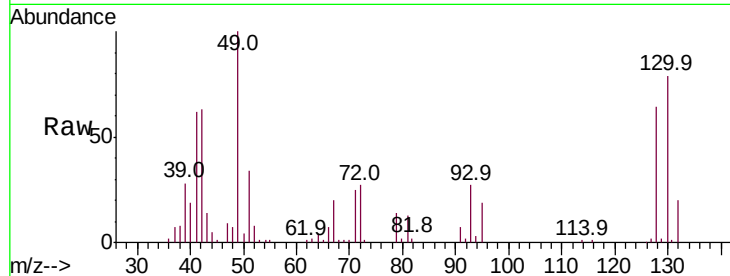
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
128	100		
49	155.6	0.0	355.8
130	127.7	0.0	326.3

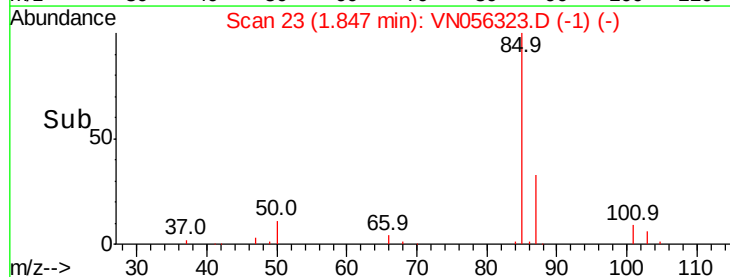
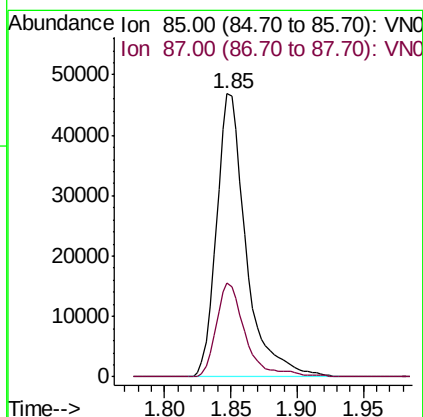
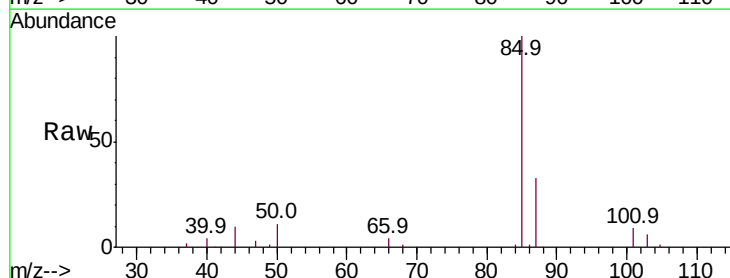
Manual Integrations
 APPROVED

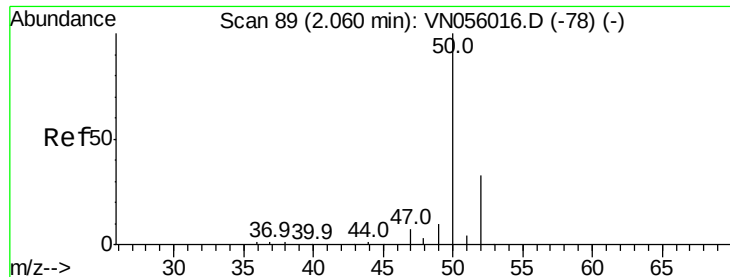
MMDadoda
 6/17/2019 9:45:22 AM



#2
 Dichlorodifluoromethane
 Concen: 21.778 ug/l
 RT: 1.85 min Scan# 23
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.9	47.7





#3

Chloromethane

Concen: 21.591 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 50 Resp: 84152

Ion Ratio Lower Upper

50 100

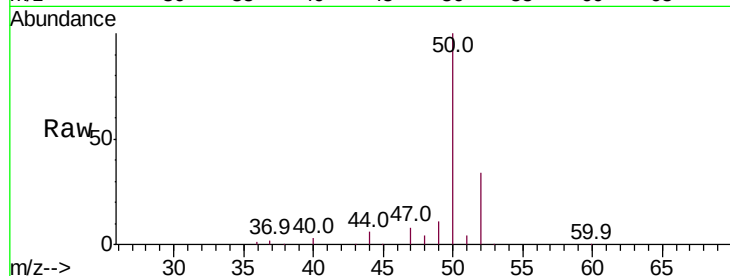
52 33.8 26.7 40.1

Manual Integrations

APPROVED

MMDadoda

6/17/2019 9:45:22 AM



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

60000

50000

40000

30000

20000

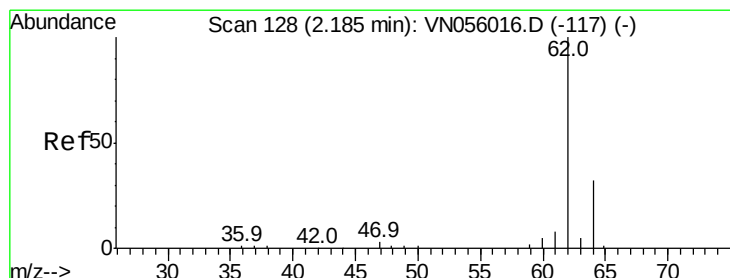
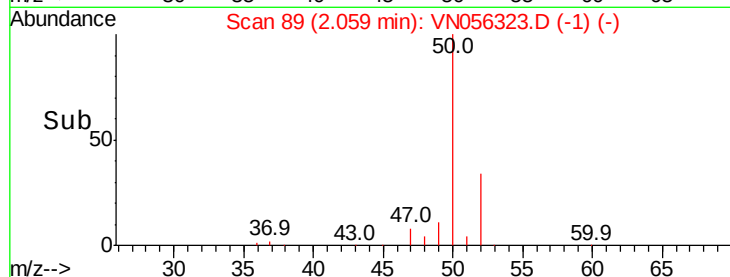
10000

0

2.06

2.00 2.05 2.10

Time-->



#4

Vinyl Chloride

Concen: 21.511 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN056323.D

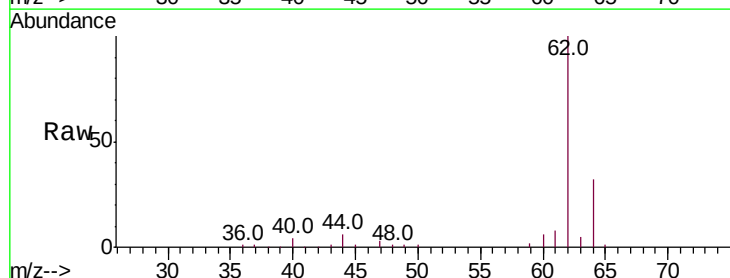
Acq: 14 Jun 2019 19:37

Tgt Ion: 62 Resp: 85478

Ion Ratio Lower Upper

62 100

64 31.6 25.8 38.8



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0

60000

50000

40000

30000

20000

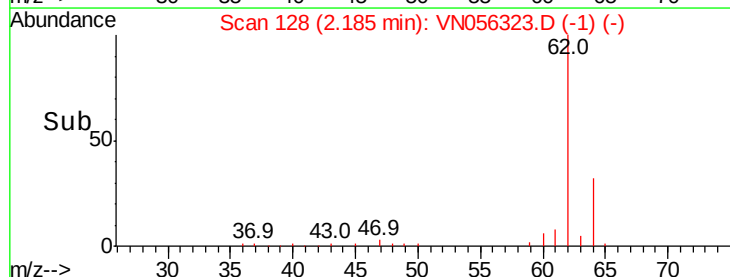
10000

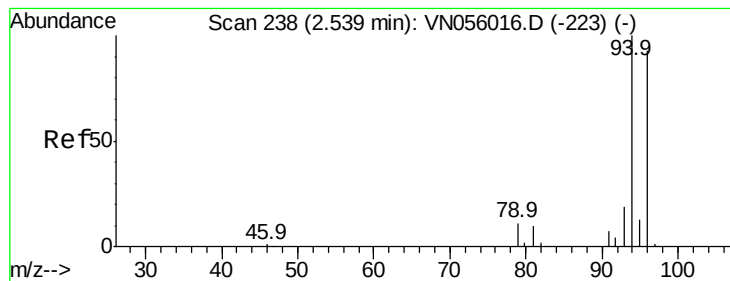
0

2.18

2.10 2.15 2.20 2.25

Time-->





#5

Bromomethane

Concen: 19.340 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 94 Resp: 48298

Ion Ratio Lower Upper

94 100

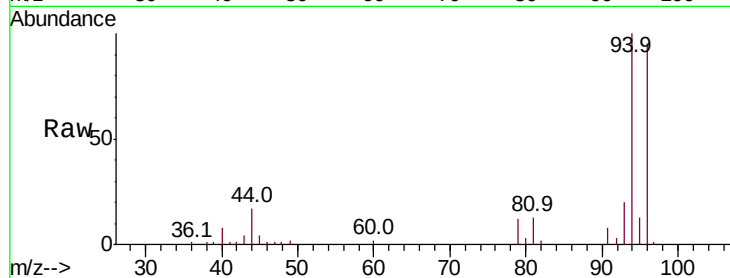
96 95.4 74.1 111.1

Manual Integrations

APPROVED

MMDadoda

6/17/2019 9:45:22 AM



Abundance Ion 94.00 (93.70 to 94.70): VN056016.D (-223) (-)

Ion 96.00 (95.70 to 96.70): VN056016.D (-223) (-)

25000

20000

15000

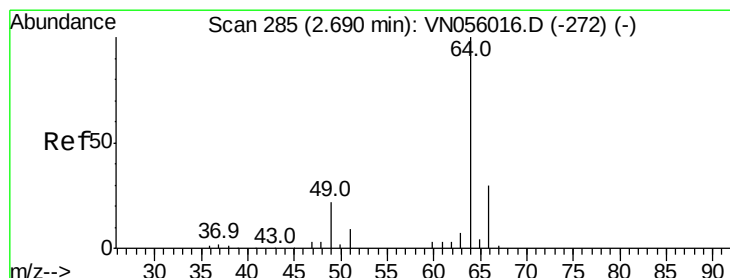
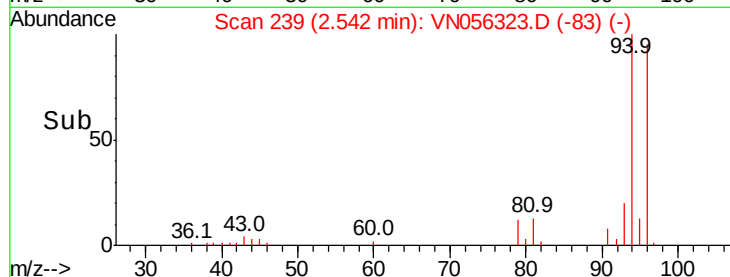
10000

5000

0

2.45 2.50 2.55 2.60 2.65

Time-->



#6

Chloroethane

Concen: 21.347 ug/l

RT: 2.69 min Scan# 285

Delta R.T. -0.00 min

Lab File: VN056323.D

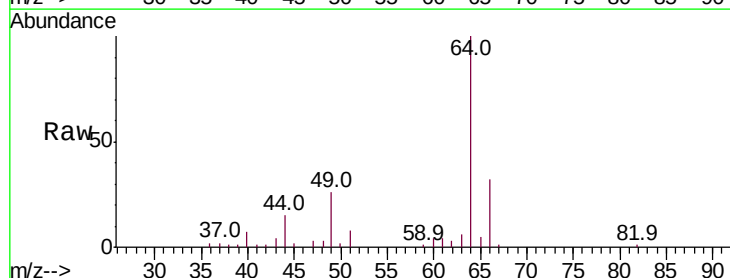
Acq: 14 Jun 2019 19:37

Tgt Ion: 64 Resp: 47980

Ion Ratio Lower Upper

64 100

66 32.2 23.7 35.5



Abundance Ion 64.00 (63.70 to 64.70): VN056016.D (-272) (-)

Ion 66.00 (65.70 to 66.70): VN056016.D (-272) (-)

25000

20000

15000

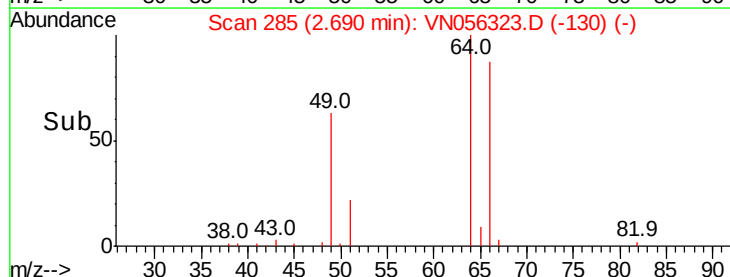
10000

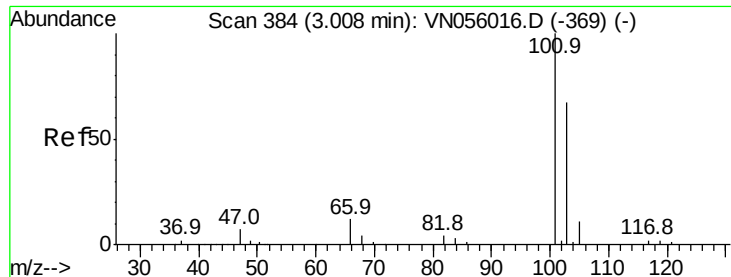
5000

0

2.60 2.65 2.70 2.75 2.80

Time-->





#7

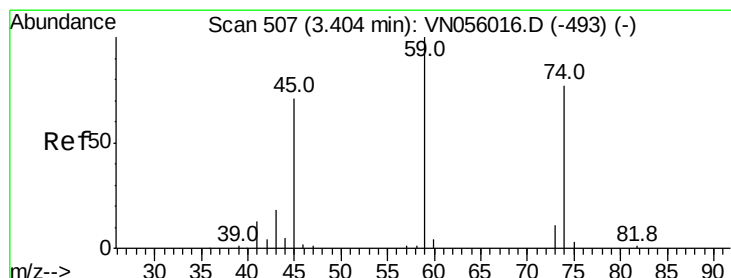
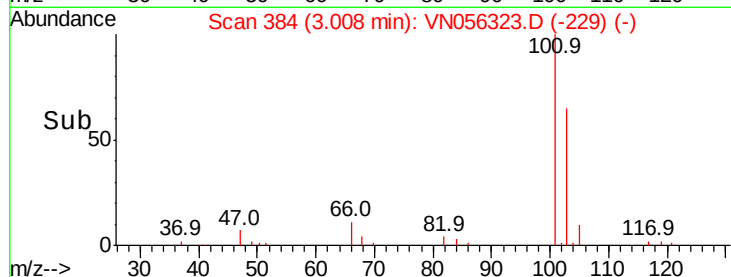
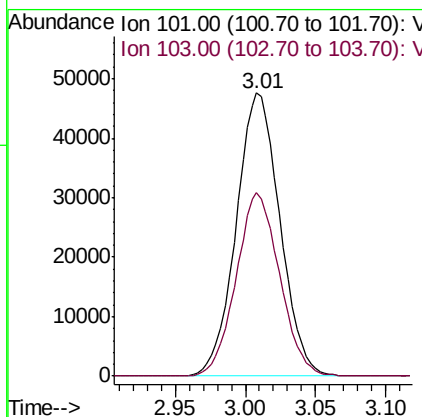
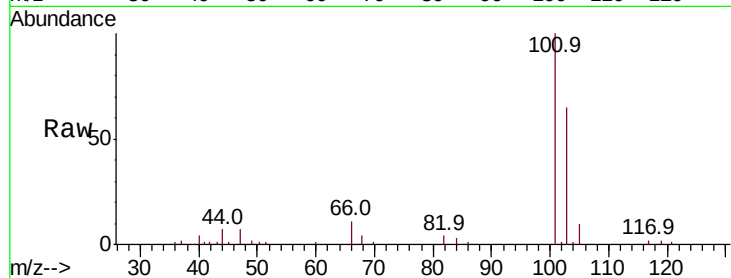
Trichlorofluoromethane
 Concen: 20.963 ug/l
 RT: 3.01 min Scan# 384
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.6	53.4	80.0

Manual Integrations
 APPROVED

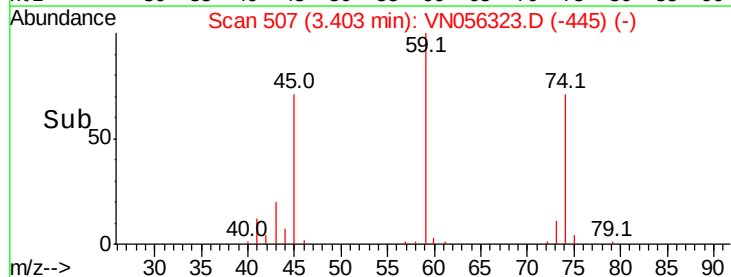
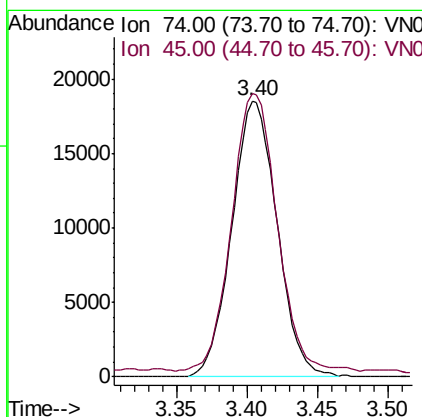
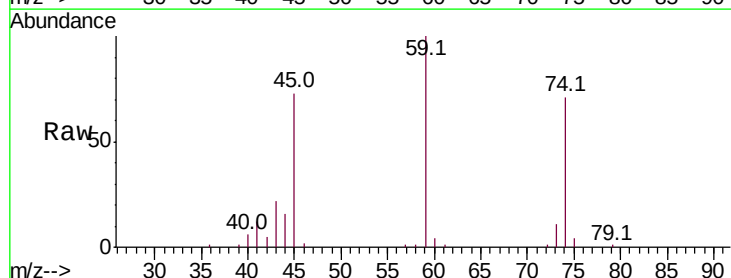
MMDadoda
 6/17/2019 9:45:22 AM

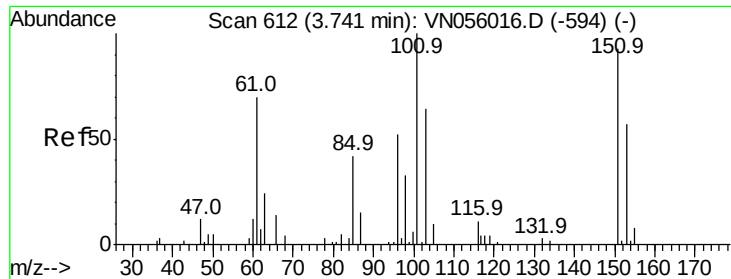


#8

Diethyl Ether
 Concen: 19.950 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.6	18.8	169.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.194 ug/l

RT: 3.74 min Scan# 612

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

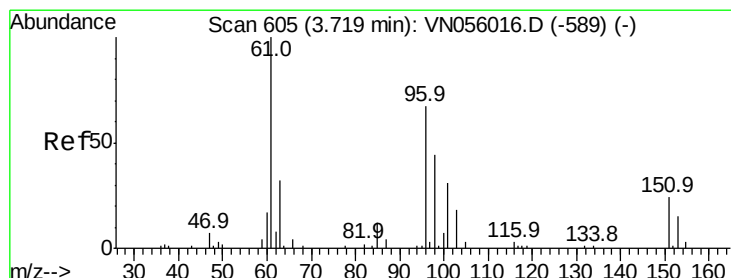
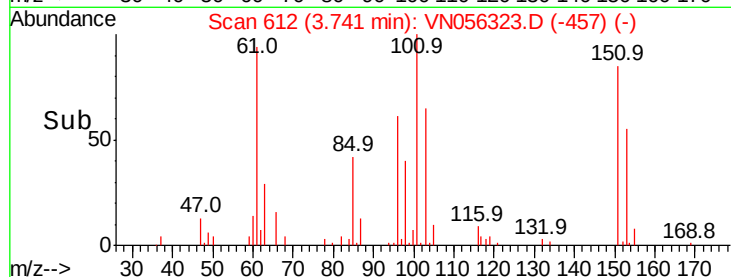
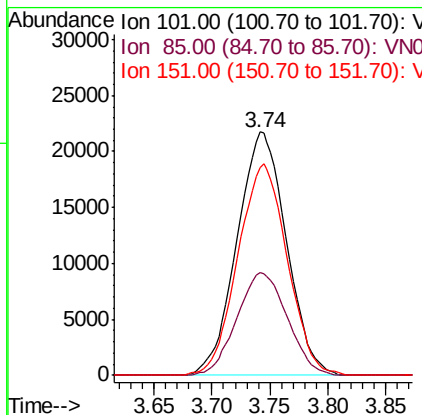
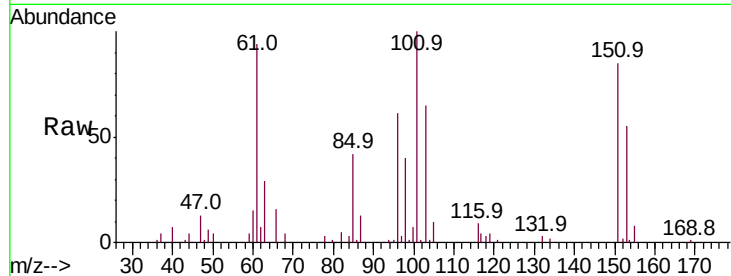
ClientSampleId :

VSTDCCC020EC

Tot Ion:	101	Resp:	64323
Ion Ratio	Lower	Upper	
101	100		
85	43.1	0.0	82.0
151	86.9	0.0	177.0

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM



#10

1,1-Dichloroethene

Concen: 20.266 ug/l

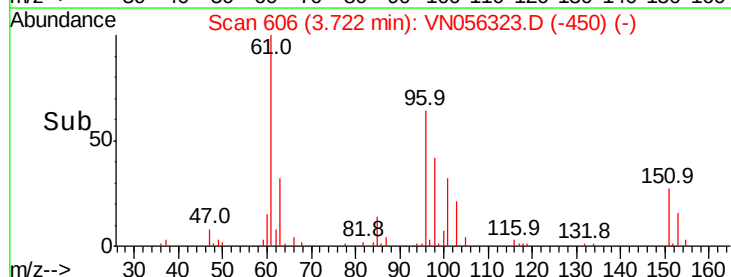
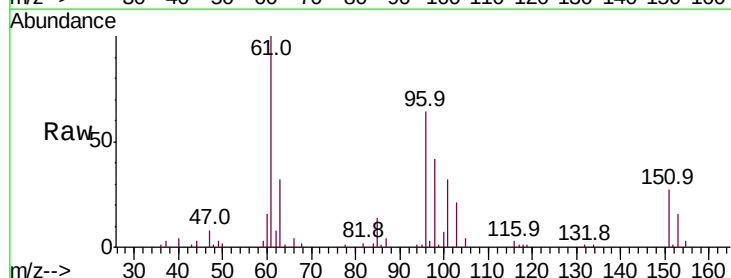
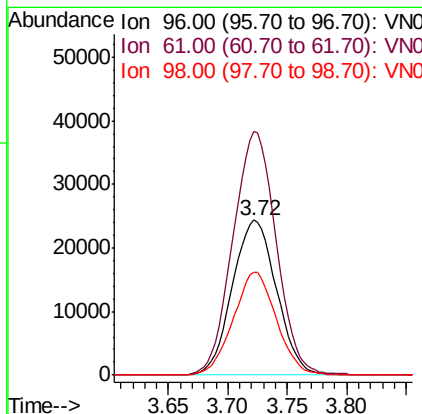
RT: 3.72 min Scan# 606

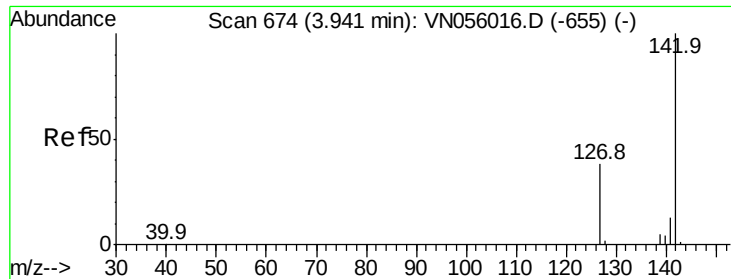
Delta R.T. 0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Tgt Ion:	96	Resp:	62743
Ion Ratio	Lower	Upper	
96	100		
61	157.3	119.7	179.5
98	66.8	52.3	78.5





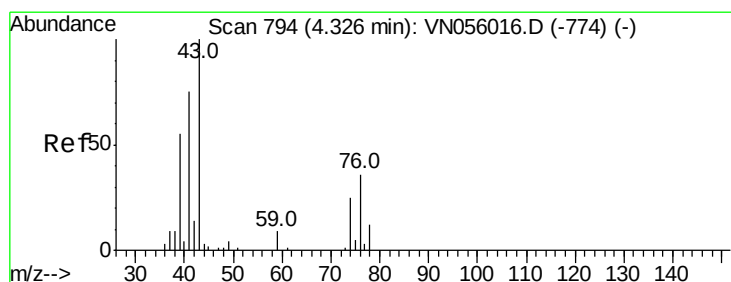
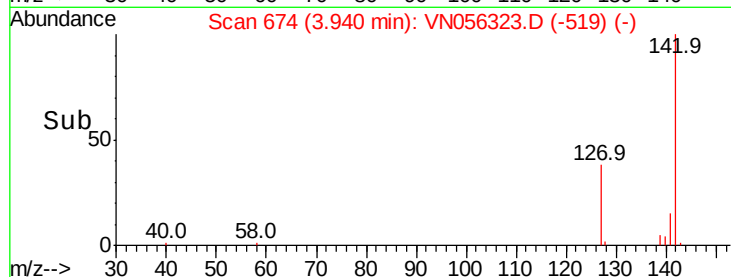
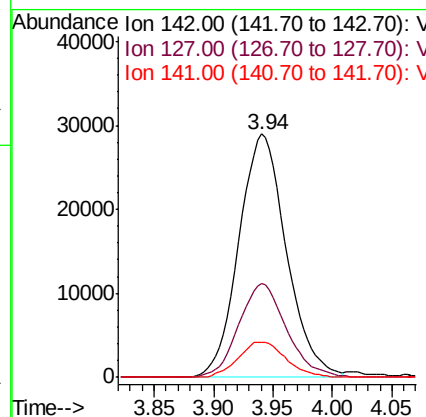
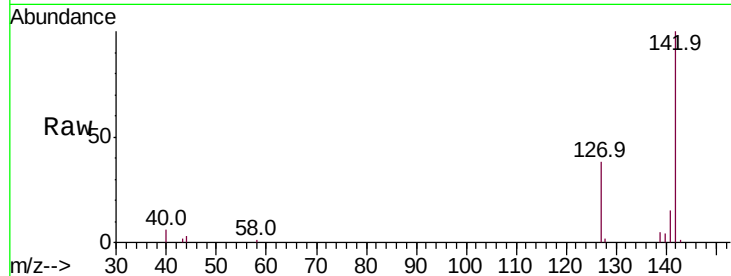
#11
Methvl Iodide
Concen: 16.426 ug/l
RT: 3.94 min Scan# 674
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
142	100		
127	38.4	19.0	57.0
141	14.8	6.7	20.0

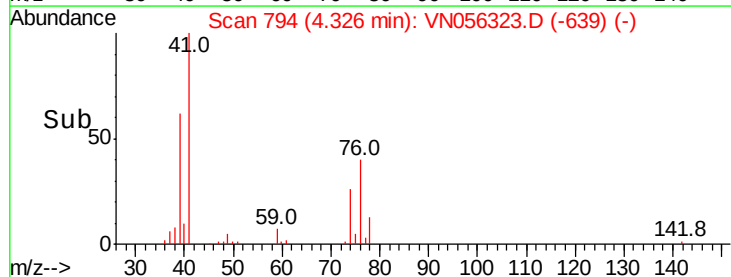
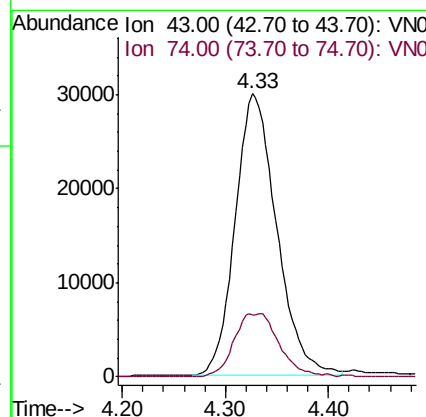
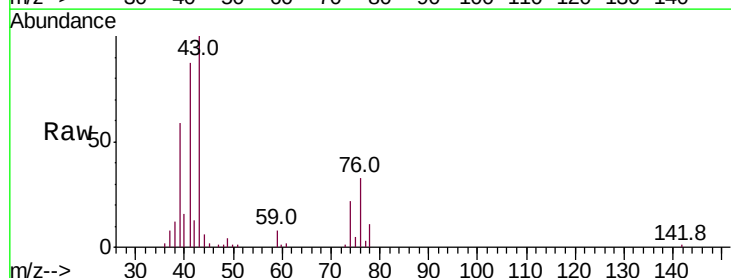
Manual Integrations
APPROVED

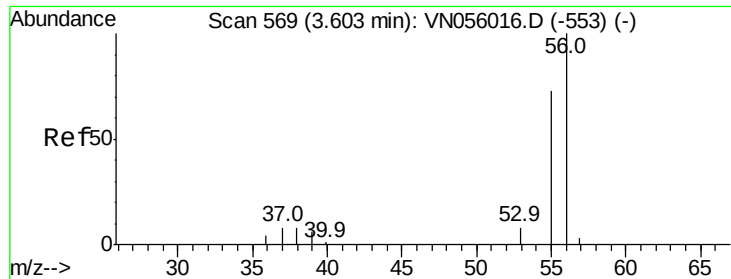
MMDadoda
6/17/2019 9:45:22 AM



#12
Methyl Acetate
Concen: 22.470 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.7	19.9	29.9





#13

Acrolein

Concen: 110.285 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 56 Resp: 19998

Ion Ratio Lower Upper

56 100

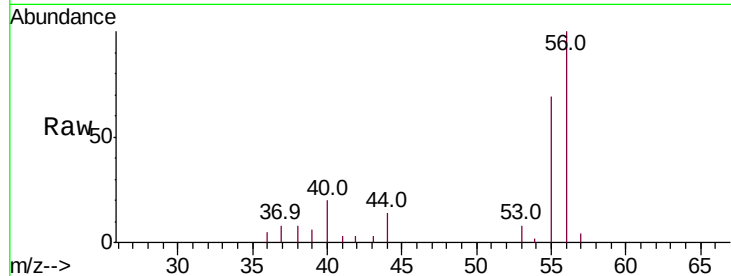
55 71.1 57.9 86.9

Manual Integrations

APPROVED

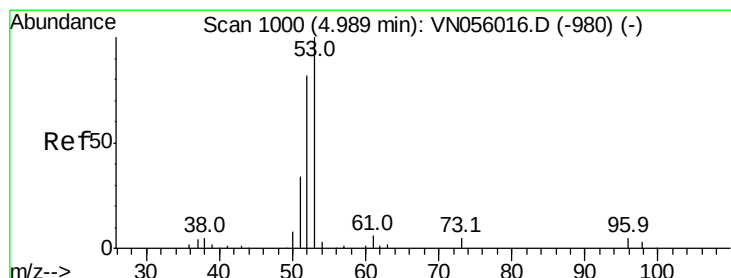
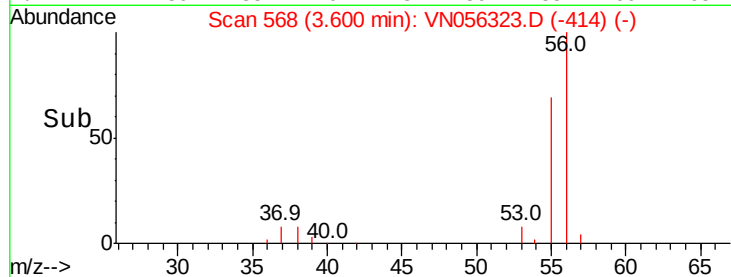
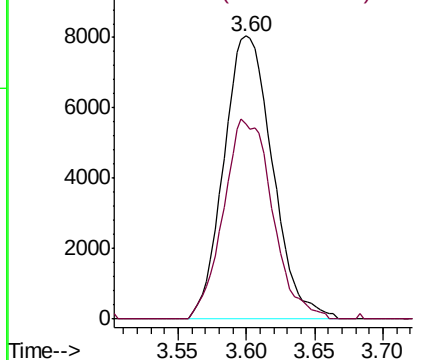
MMDadoda

6/17/2019 9:45:22 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 109.567 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

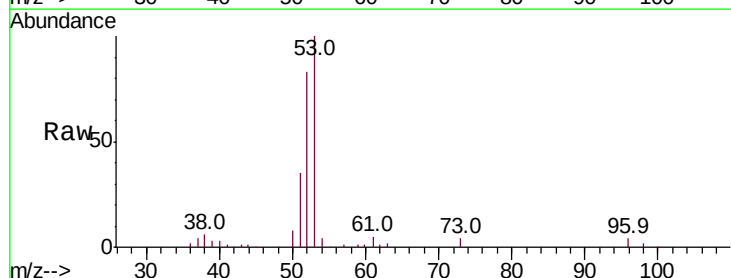
Tgt Ion: 53 Resp: 181779

Ion Ratio Lower Upper

53 100

52 82.6 40.8 122.2

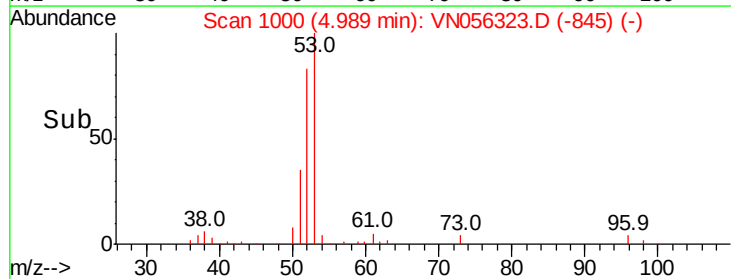
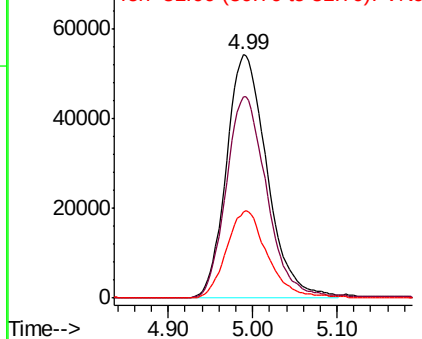
51 35.8 17.3 52.0

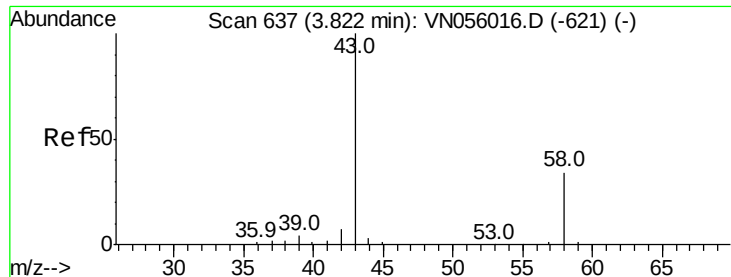


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





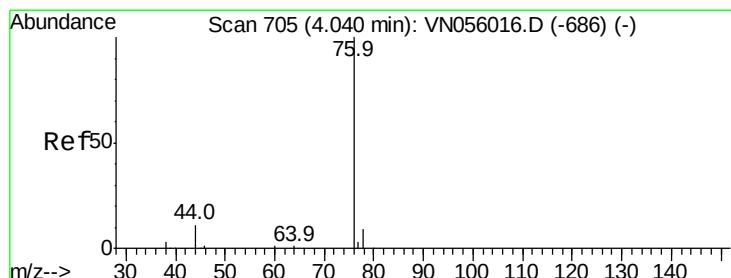
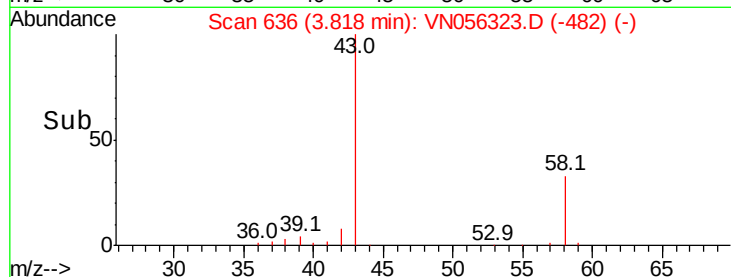
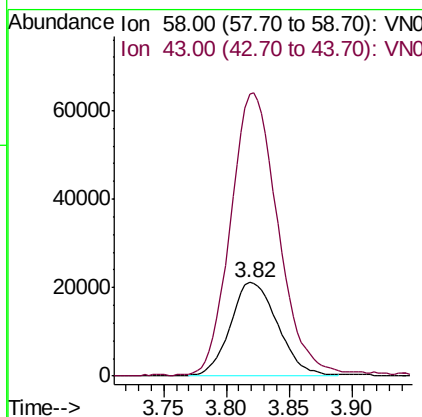
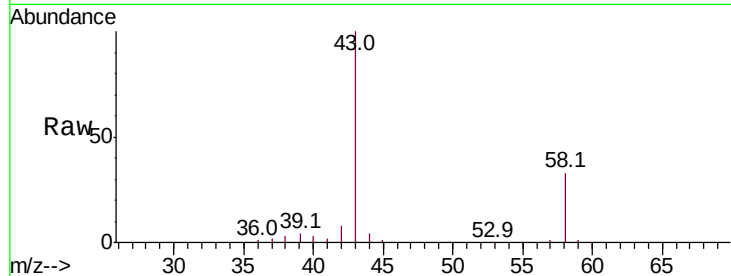
#15
Acetone
Concen: 103.012 ug/l
RT: 3.82 min Scan# 636
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 58 Resp: 55959
Ion Ratio Lower Upper
58 100
43 299.5 232.5 348.7

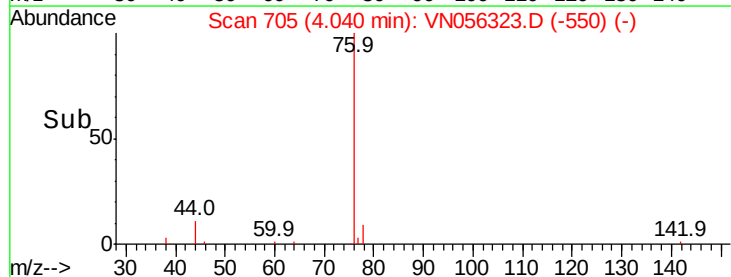
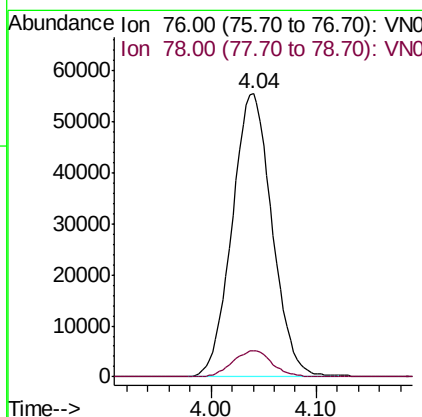
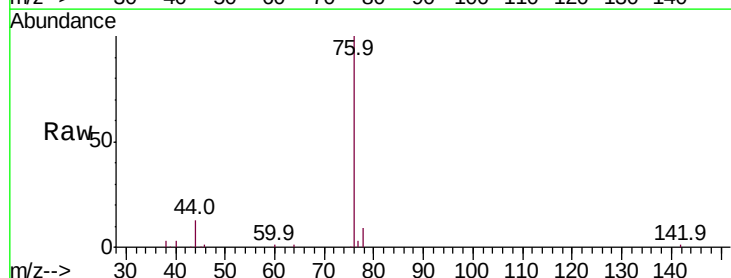
Manual Integrations
APPROVED

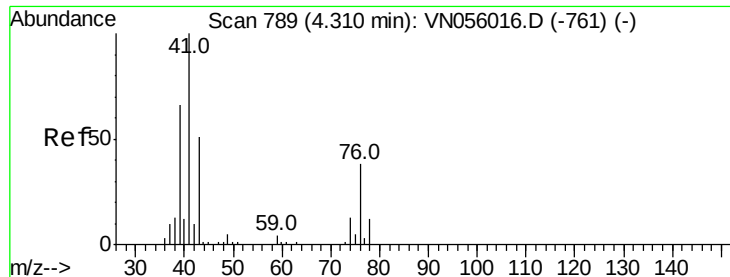
MMDadoda
6/17/2019 9:45:22 AM



#16
Carbon Disulfide
Concen: 19.816 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion: 76 Resp: 145970
Ion Ratio Lower Upper
76 100
78 9.4 7.3 10.9





#17

Allvl chloride

Concen: 21.036 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

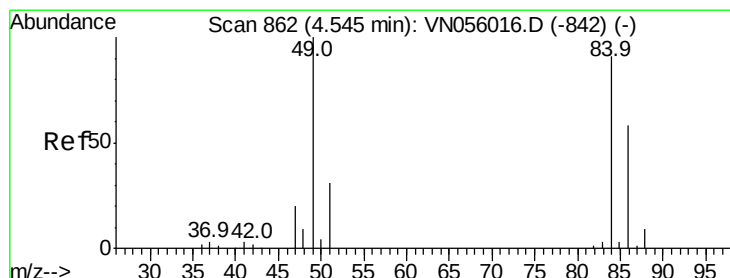
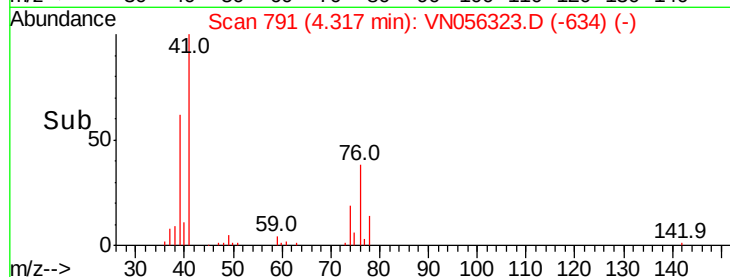
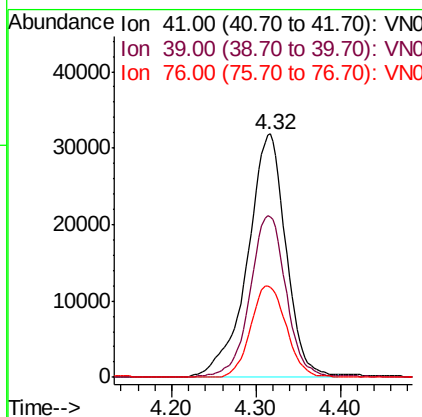
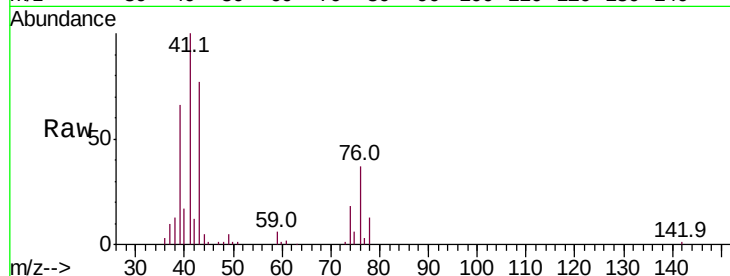
ClientSampleId :

VSTDCCC020EC

Tot Ion:	41	Resp:	100905
Ion	Ratio	Lower	Upper
41	100		
39	66.0	33.0	99.0
76	36.8	18.9	56.9

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM



#18

Methylene Chloride

Concen: 21.637 ug/l

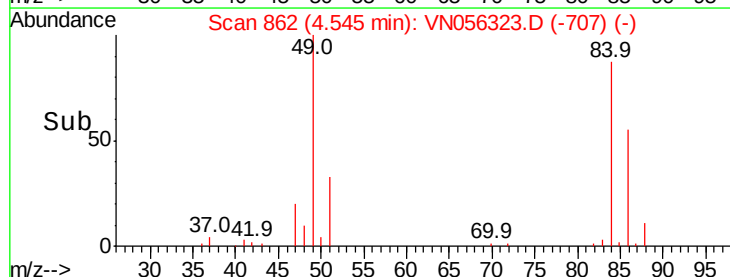
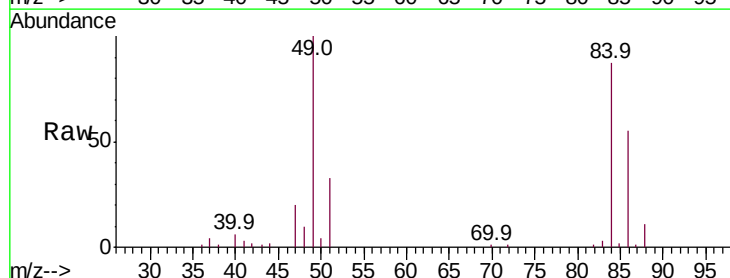
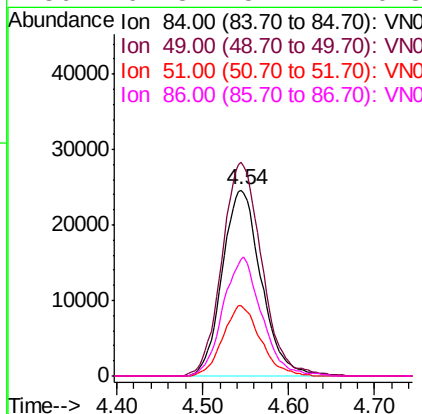
RT: 4.54 min Scan# 862

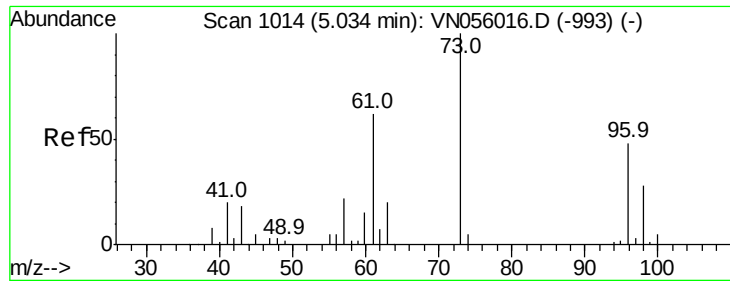
Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Tgt Ion:	84	Resp:	77549
Ion	Ratio	Lower	Upper
84	100		
49	113.8	87.6	131.4
51	38.1	27.0	40.4
86	62.8	51.2	76.8





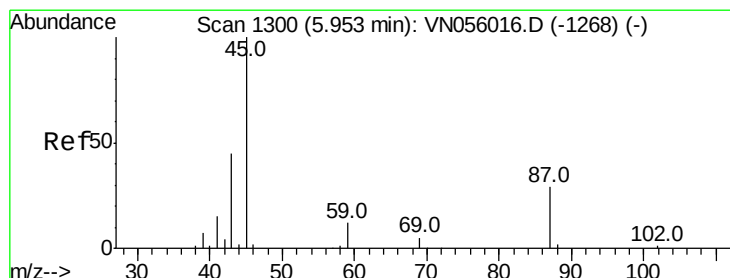
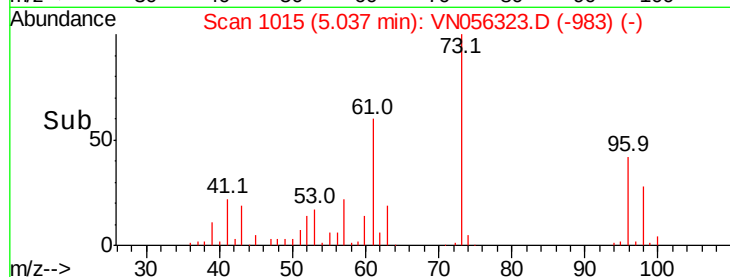
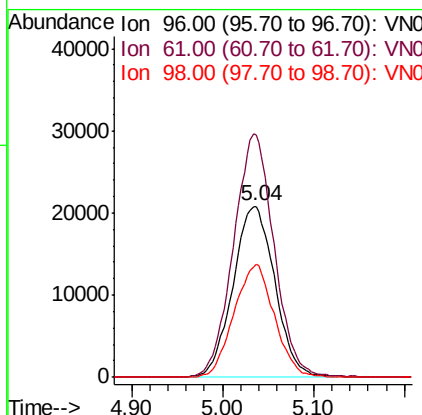
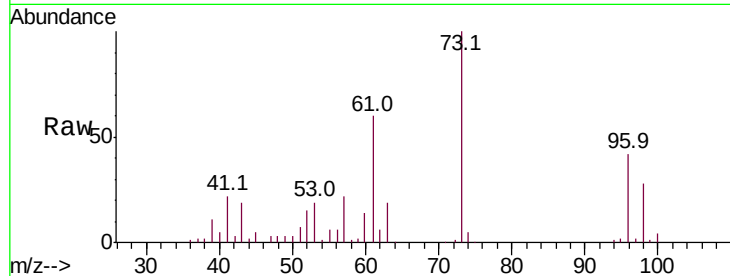
#19
trans-1,2-Dichloroethene
Concen: 20.177 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.9	102.5	153.7
98	66.4	46.9	70.3

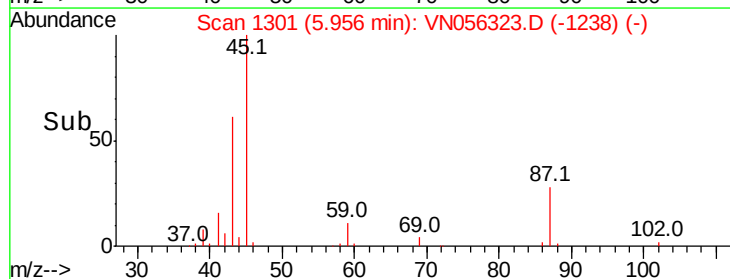
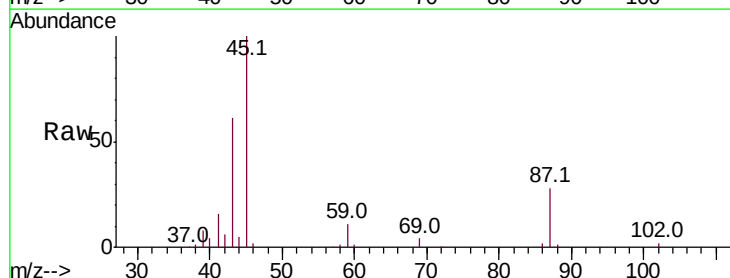
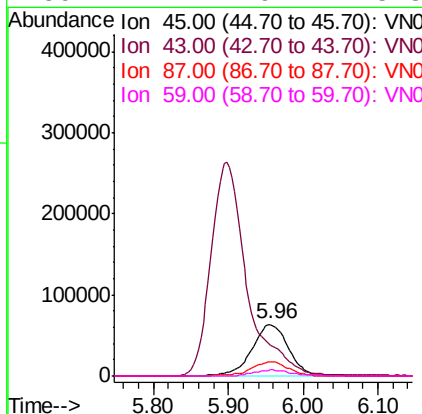
Manual Integrations
APPROVED

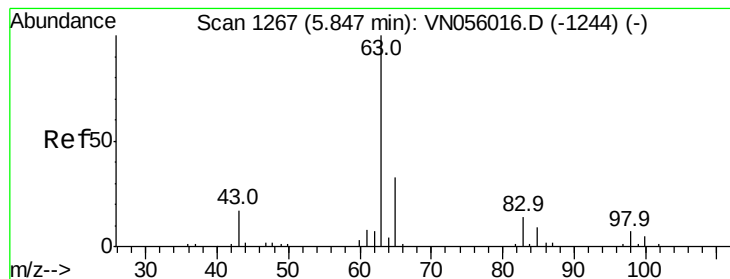
MMDadoda
6/17/2019 9:45:22 AM



#20
Diisopropyl ether
Concen: 21.865 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.2	48.0	72.0
87	27.7	23.4	35.2
59	11.1	9.2	13.8





#21

1,1-Dichloroethane

Concen: 21.635 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

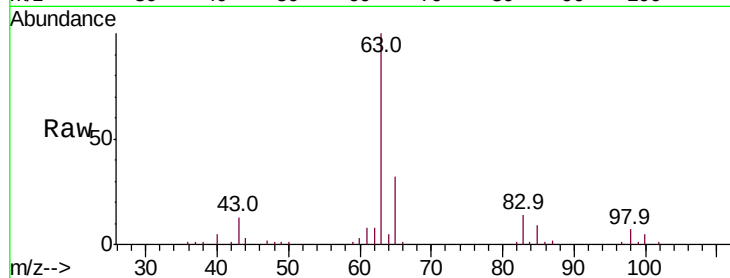
ClientSampleId :

VSTDCCC020EC

Tot Ion:	63	Resp:	124955
Ion Ratio	Lower	Upper	
63	100		
98	6.7	3.5	10.5
100	4.7	2.3	6.9

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM



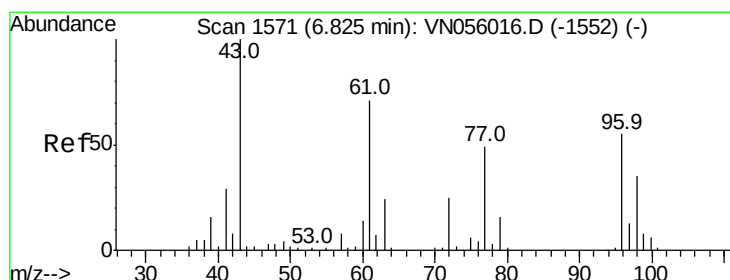
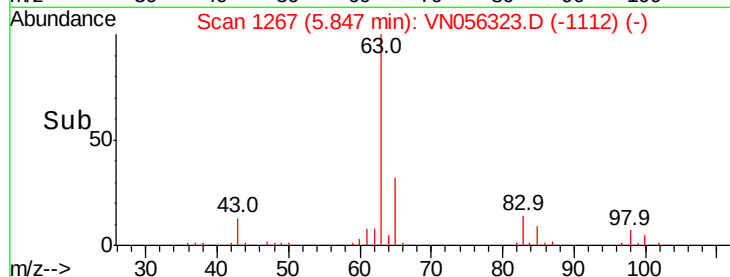
Abundance Ion 63.00 (62.70 to 63.70): VN056323.D (-1112) (-)

Ion 98.00 (97.70 to 98.70): VN056323.D (-1112) (-)

Ion 100.00 (99.70 to 100.70): VN056323.D (-1112) (-)

5.85

Time-->



#22

cis-1,2-Dichloroethene

Concen: 20.841 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Tgt Ion:	96	Resp:	80386
Ion Ratio	Lower	Upper	
96	100		
61	136.1	105.7	158.5
98	63.8	52.0	78.0

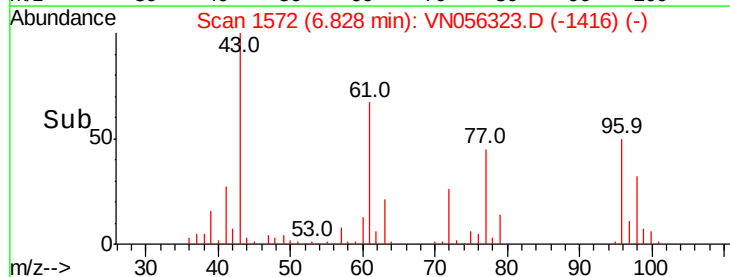
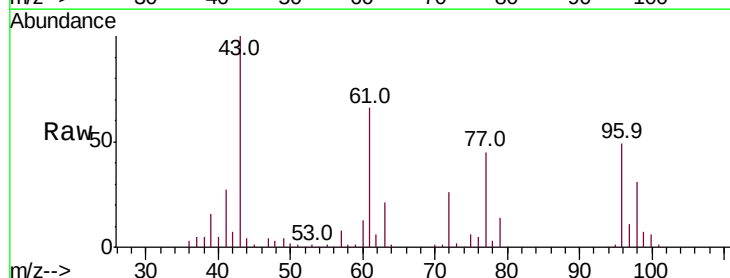
Abundance Ion 96.00 (95.70 to 96.70): VN056323.D (-1416) (-)

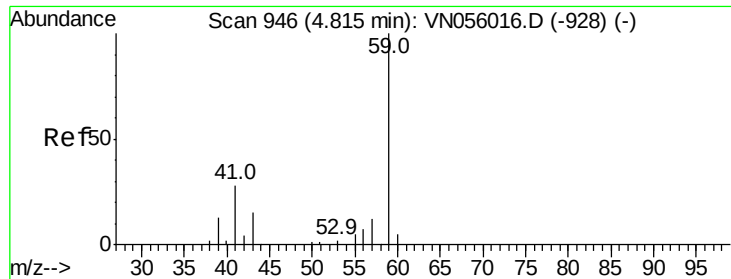
Ion 61.00 (60.70 to 61.70): VN056323.D (-1416) (-)

Ion 98.00 (97.70 to 98.70): VN056323.D (-1416) (-)

6.83

Time-->





#23

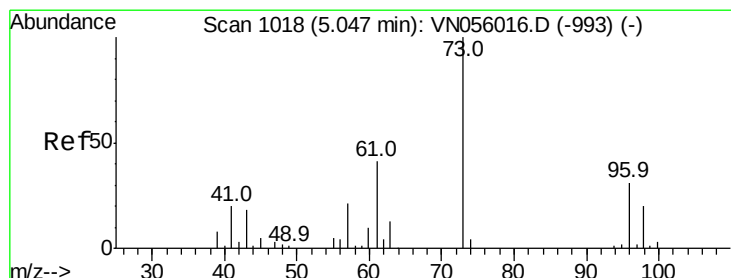
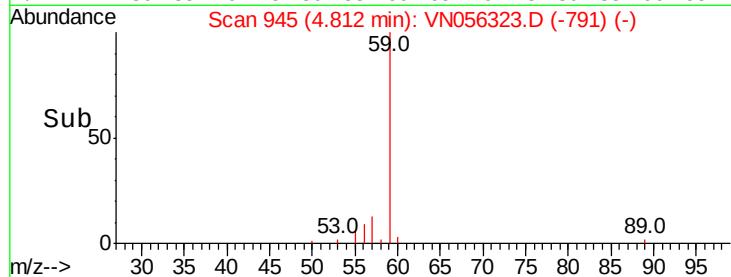
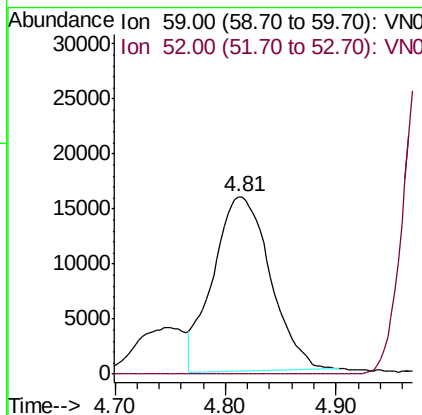
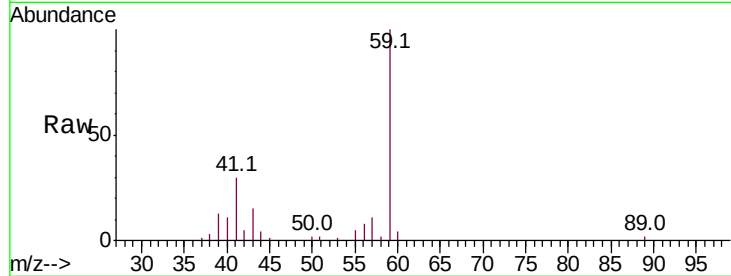
tert-Butyl Alcohol
 Concen: 87.980 ug/l
 RT: 4.81 min Scan# 945
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	59	Resp	56815
Ion Ratio	100	Lower	Upper
52	0.0	0.0	0.0

Manual Integrations
 APPROVED

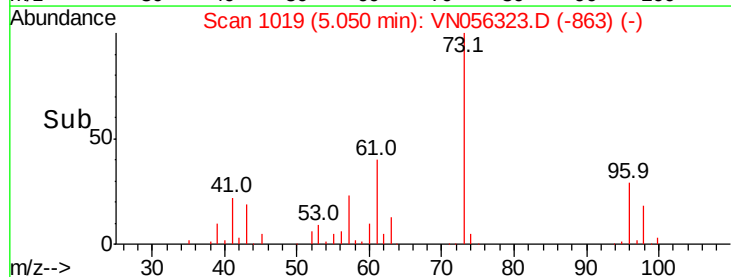
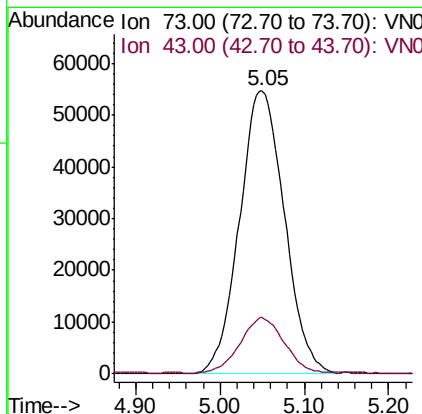
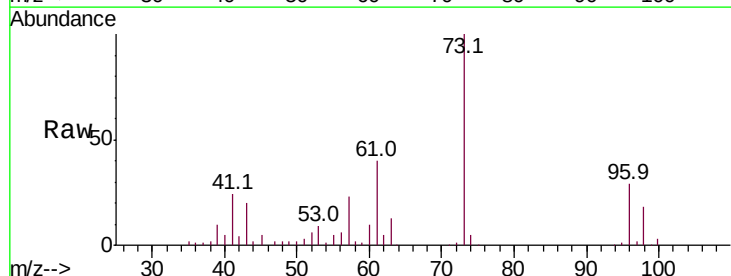
MMDadoda
 6/17/2019 9:45:22 AM

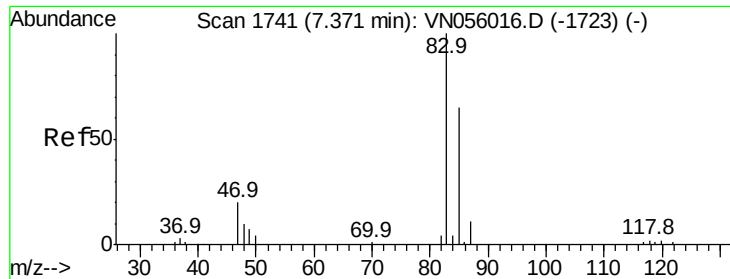


#24

Methyl tert-Butyl Ether
 Concen: 20.544 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Tgt Ion	73	Resp	202700
Ion Ratio	100	Lower	Upper
43	19.9	15.4	23.0





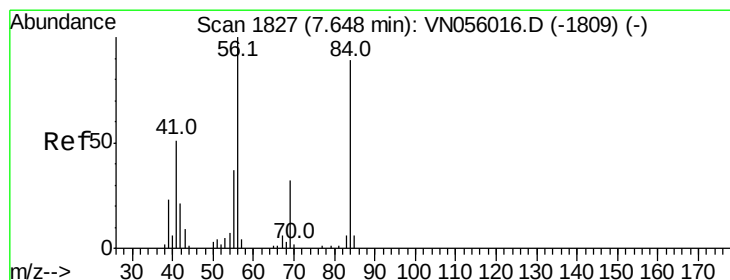
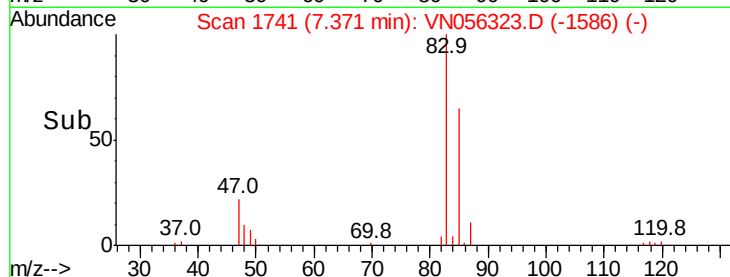
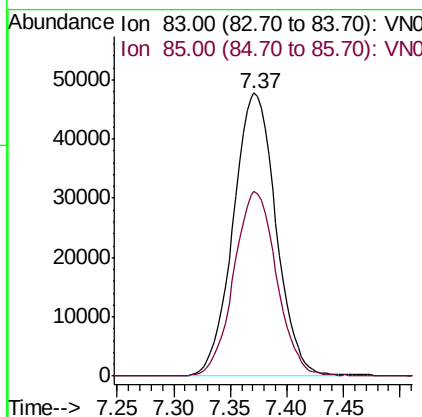
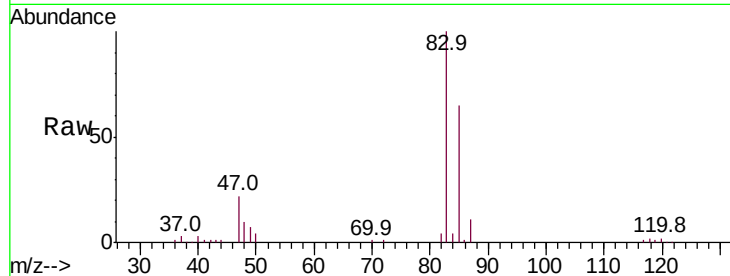
#25
Chloroform
Concen: 21.794 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	83	Resp	125695
Ion Ratio	100	Lower	Upper
85	65.2	52.0	78.0

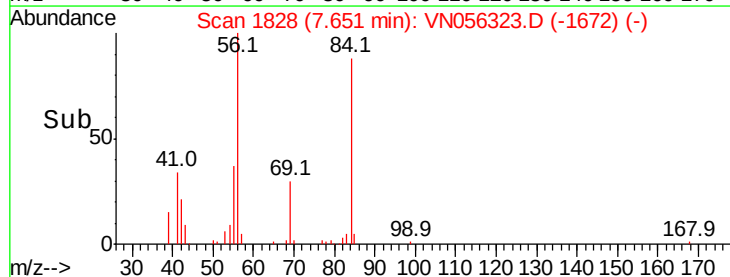
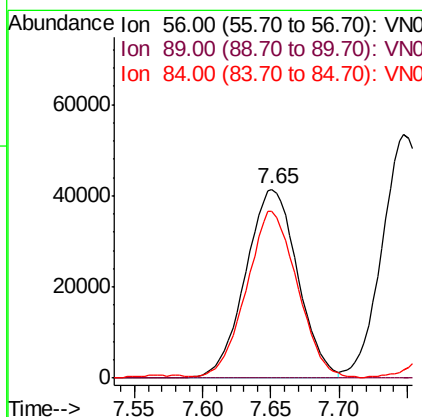
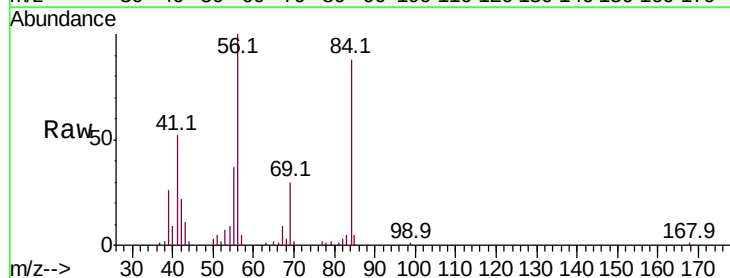
Manual Integrations
APPROVED

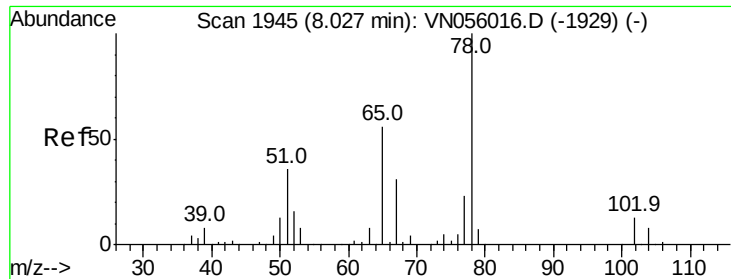
MMDadoda
6/17/2019 9:45:22 AM



#26
Cyclohexane
Concen: 20.464 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion	56	Resp	109655
Ion Ratio	100	Lower	Upper
89	0.0	0.0	0.0
84	85.4	70.1	105.1





#27

1,2-Dichloroethane-d4

Concen: 32.604 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 65 Resp: 120083

Ion Ratio Lower Upper

65 100

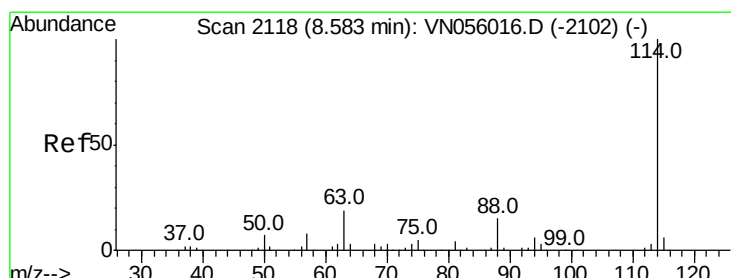
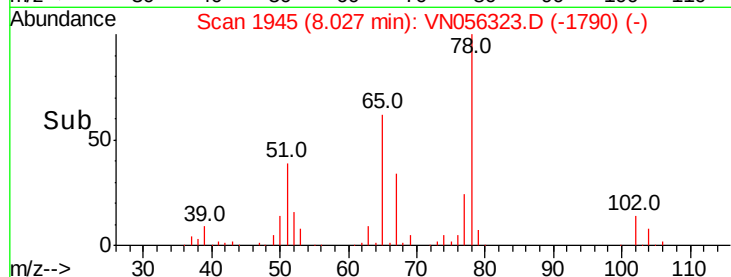
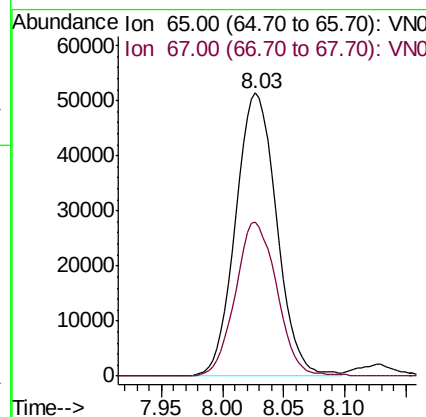
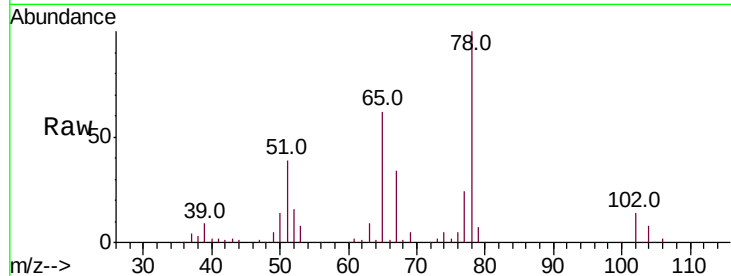
67 55.0 43.4 65.2

Manual Integrations

APPROVED

MMDadoda

6/17/2019 9:45:22 AM



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

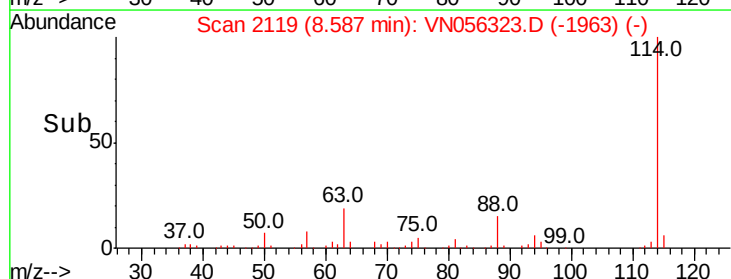
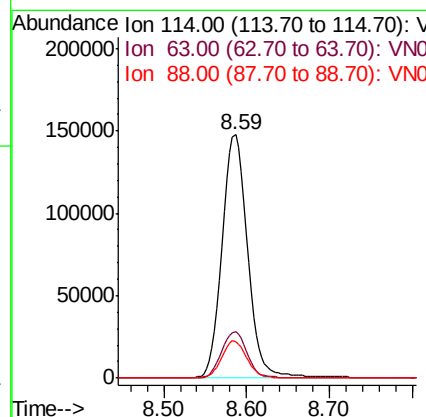
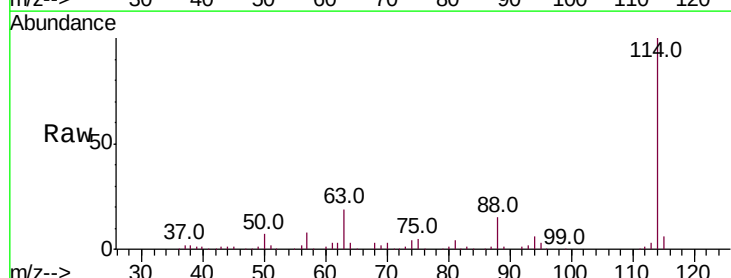
Tgt Ion: 114 Resp: 317039

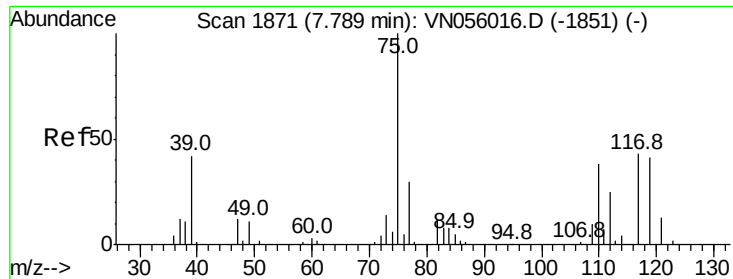
Ion Ratio Lower Upper

114 100

63 19.2 14.7 22.1

88 14.9 11.9 17.9





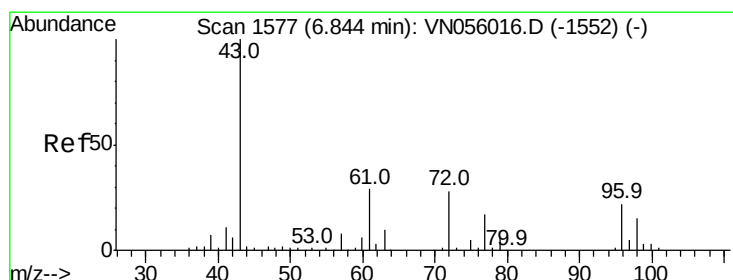
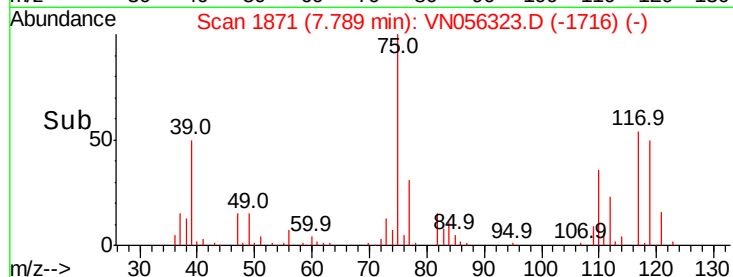
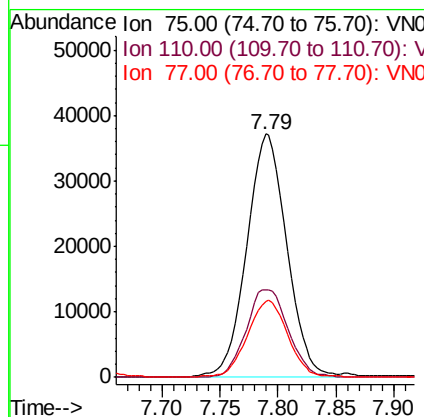
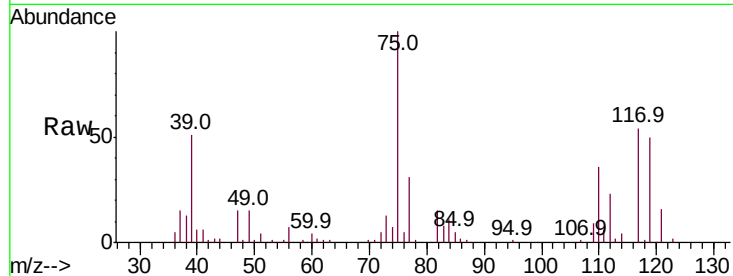
#29
 1,1-Dichloropropene
 Concen: 20.917 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
110	37.7	0.0	77.0
77	31.9	0.0	62.4

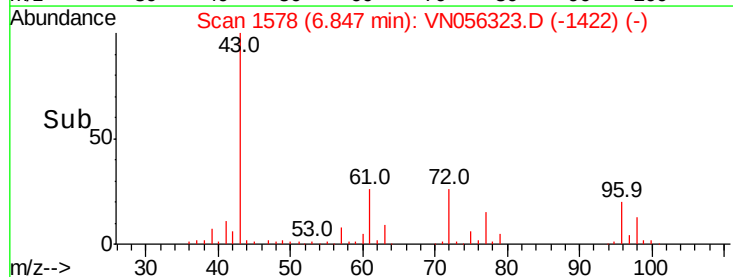
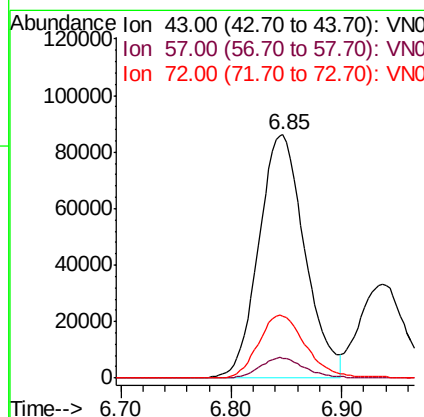
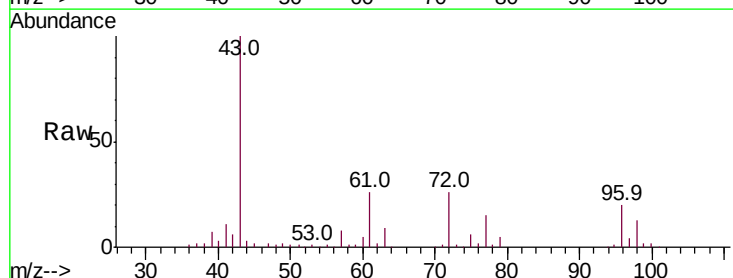
Manual Integrations
 APPROVED

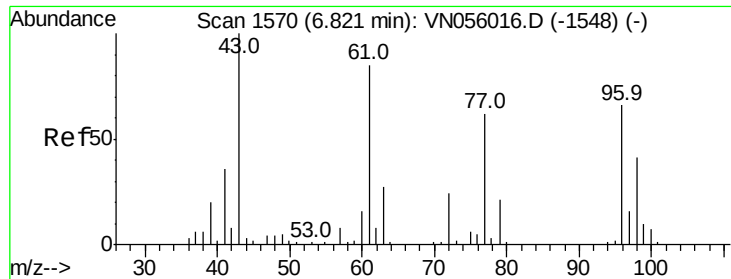
MMDadoda
 6/17/2019 9:45:22 AM



#30
 2-Butanone
 Concen: 109.672 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.2	6.7	10.1
72	26.6	22.4	33.6





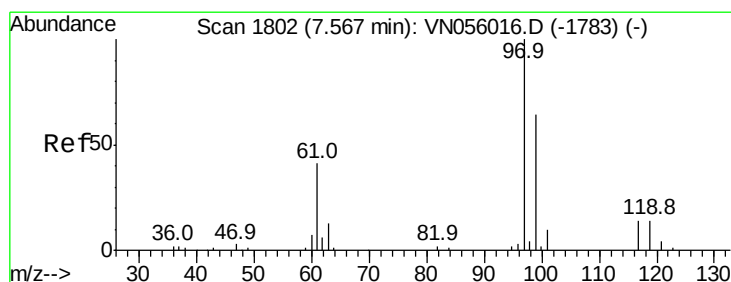
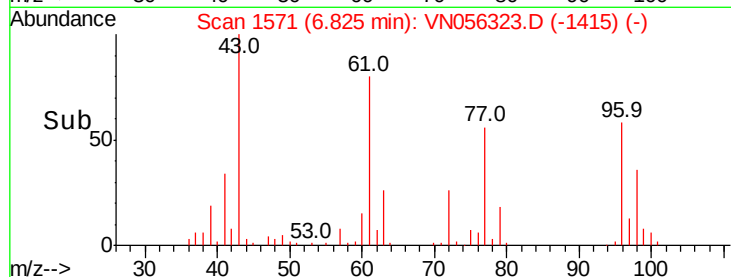
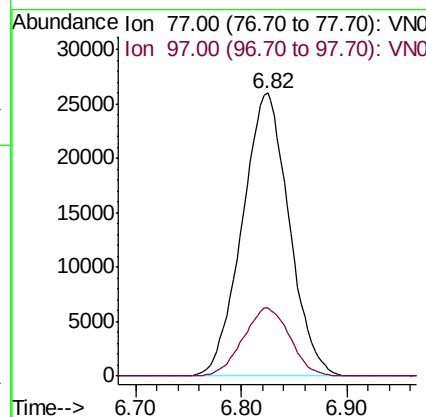
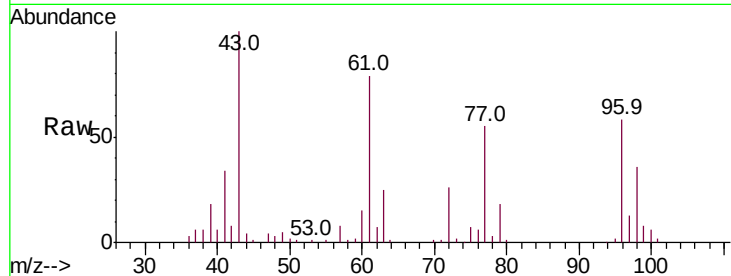
#31
 2,2-Dichloropropane
 Concen: 20.118 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 77 Resp: 80260
 Ion Ratio Lower Upper
 77 100
 97 23.9 20.8 31.2

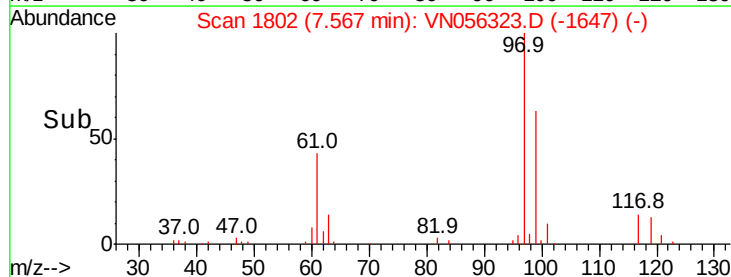
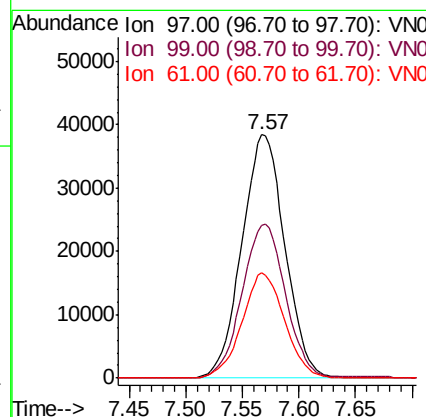
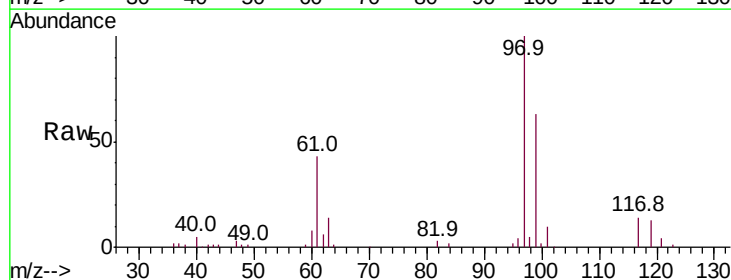
Manual Integrations
 APPROVED

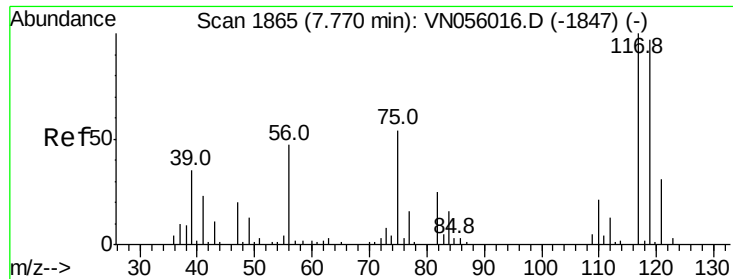
MMDadoda
 6/17/2019 9:45:22 AM



#32
 1,1,1-Trichloroethane
 Concen: 21.440 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Tgt Ion: 97 Resp: 101587
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.5 77.3
 61 42.7 32.9 49.3





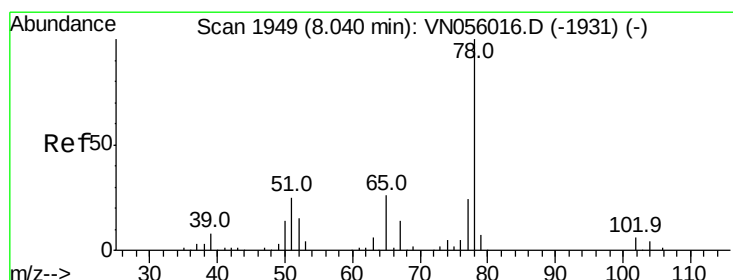
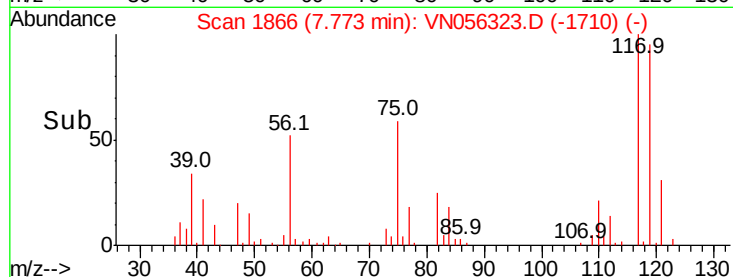
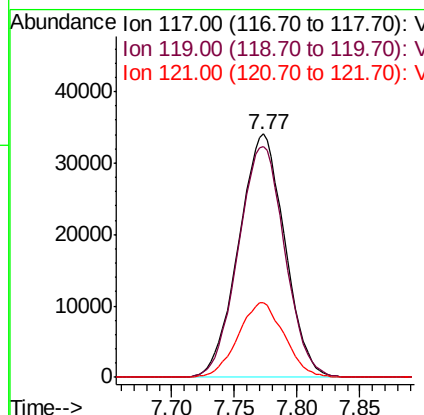
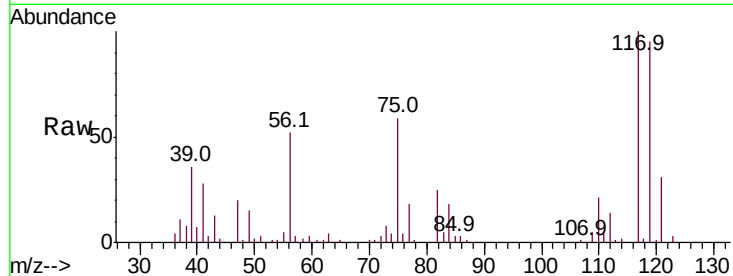
#33
Carbon Tetrachloride
Concen: 21.687 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.3	115.9
121	30.7	25.0	37.4

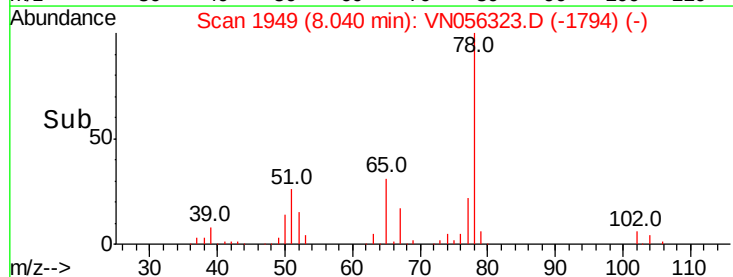
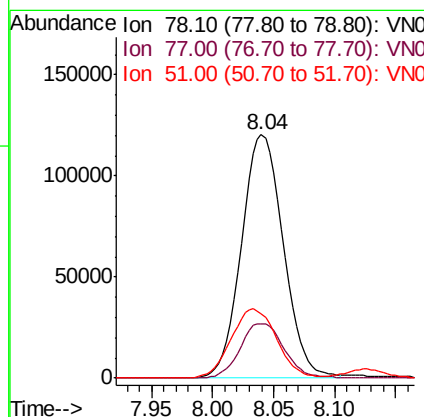
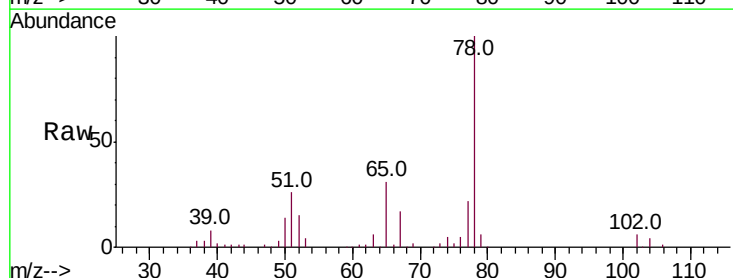
Manual Integrations
APPROVED

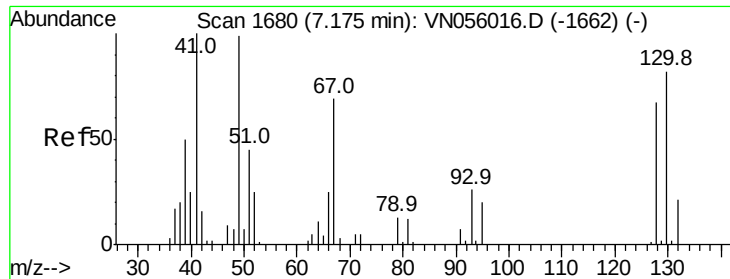
MMDadoda
6/17/2019 9:45:22 AM



#34
Benzene
Concen: 20.968 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.3	19.3	28.9
51	26.2	19.8	29.8





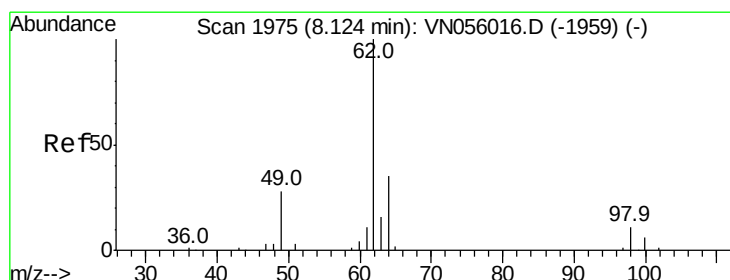
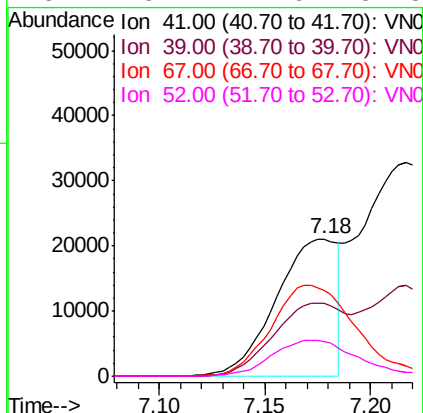
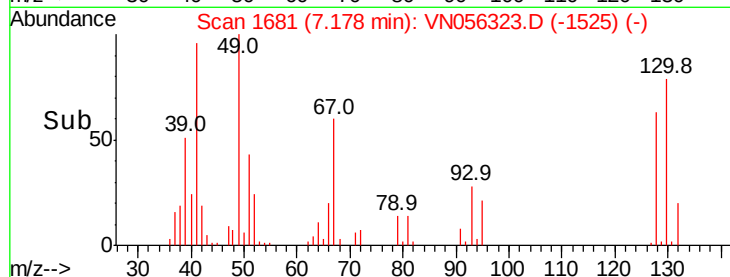
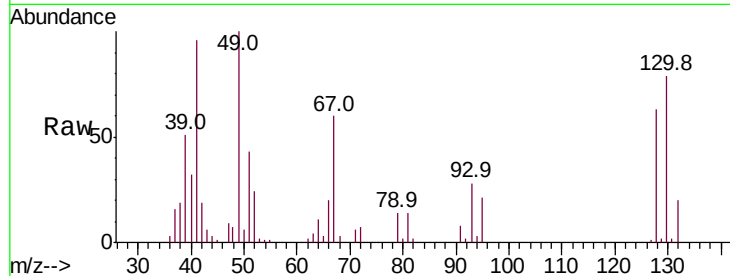
#35
Methacrylonitrile
Concen: 22.427 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.9	24.8	74.3
67	62.7	34.3	102.9
52	25.4	12.6	37.8

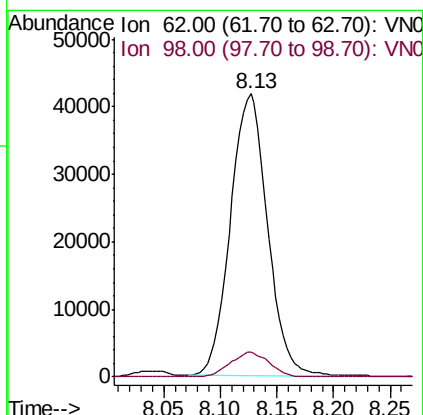
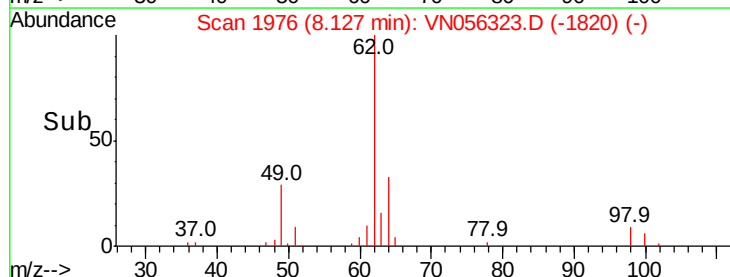
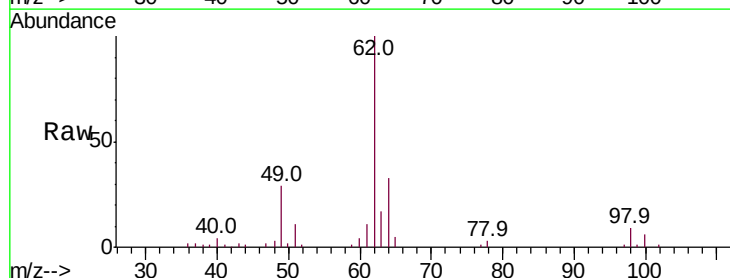
Manual Integrations
APPROVED

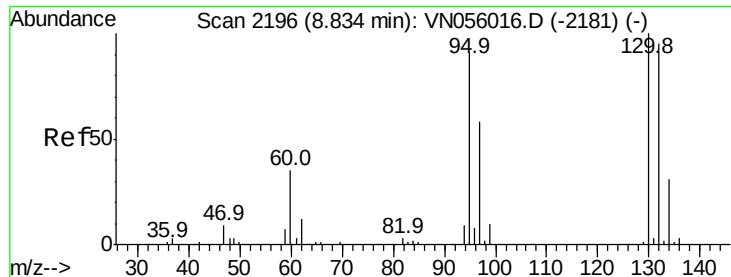
MMDadoda
6/17/2019 9:45:22 AM



#36
1,2-Dichloroethane
Concen: 22.340 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.0	8.6	13.0





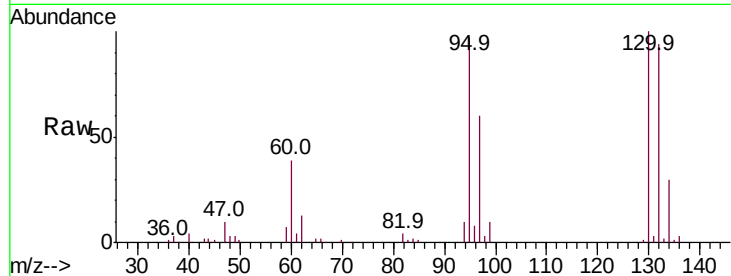
#37
 Trichloroethene
 Concen: 19.952 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

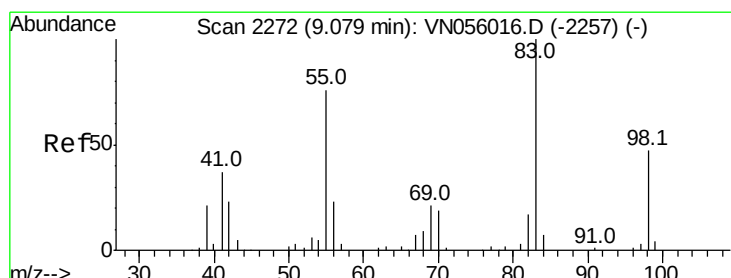
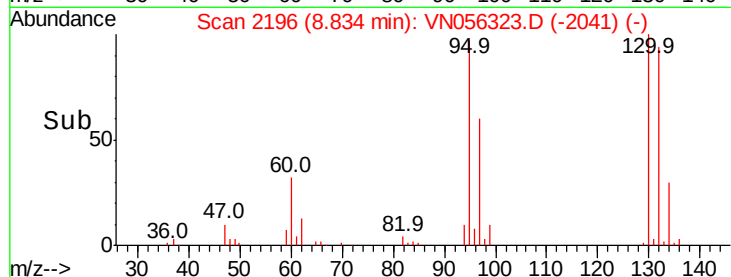
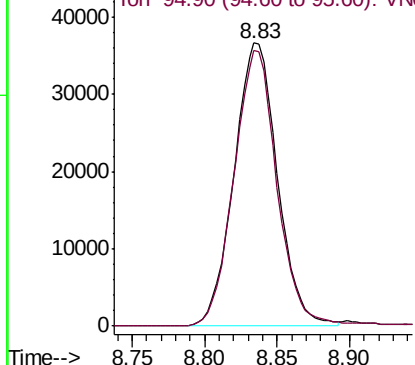
Tot Ion:130 Resp: 76287
 Ion Ratio Lower Upper
 130 100
 95 97.3 73.0 109.6

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 9:45:22 AM

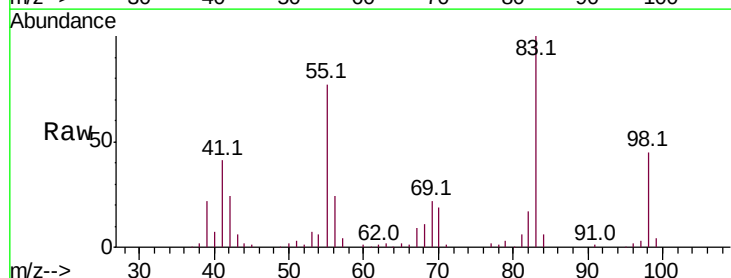


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

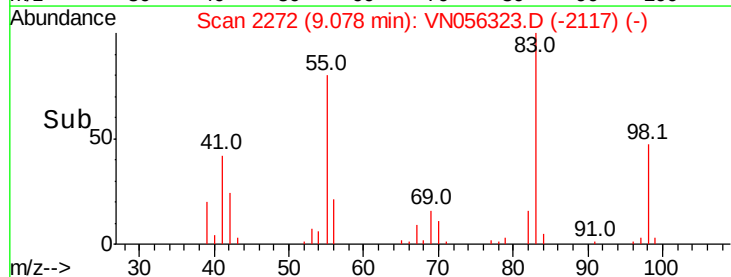
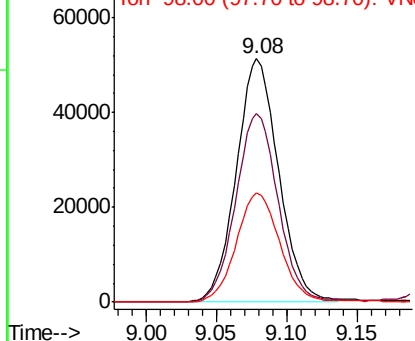


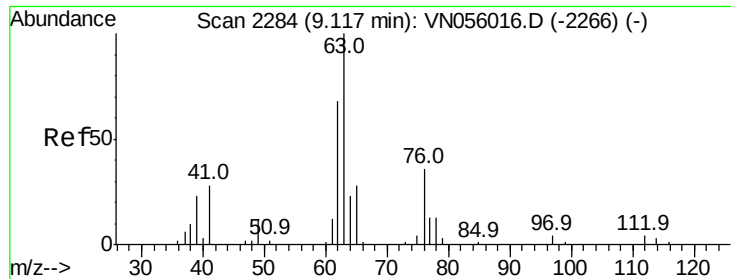
#38
 Methylcyclohexane
 Concen: 19.857 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Tgt Ion: 83 Resp: 107955
 Ion Ratio Lower Upper
 83 100
 55 77.2 37.5 112.7
 98 46.1 23.1 69.3



Abundance Ion 83.00 (82.70 to 83.70): VN
 Ion 55.00 (54.70 to 55.70): VN
 Ion 98.00 (97.70 to 98.70): VN





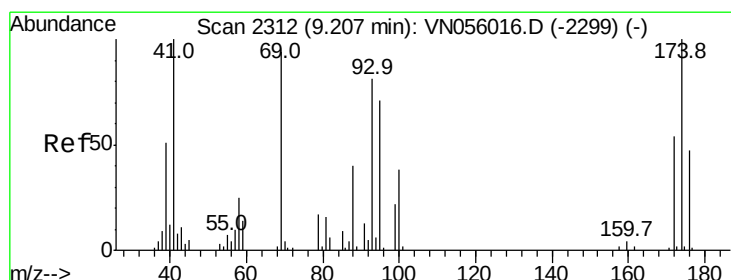
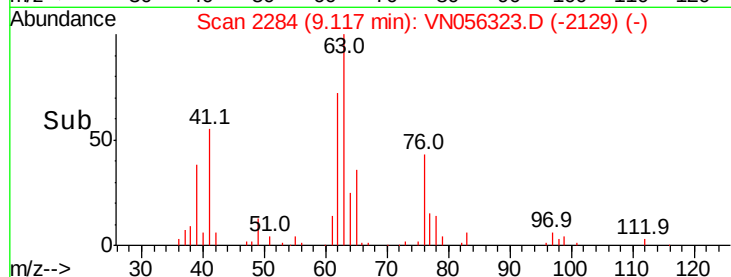
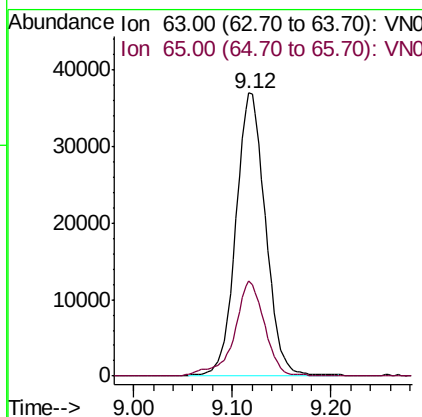
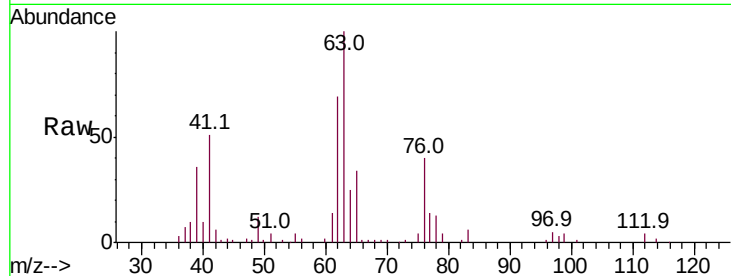
#39
 1,2-Dichloropropane
 Concen: 22.043 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 63 Resp: 77140
 Ion Ratio Lower Upper
 63 100
 65 33.5 23.1 34.7

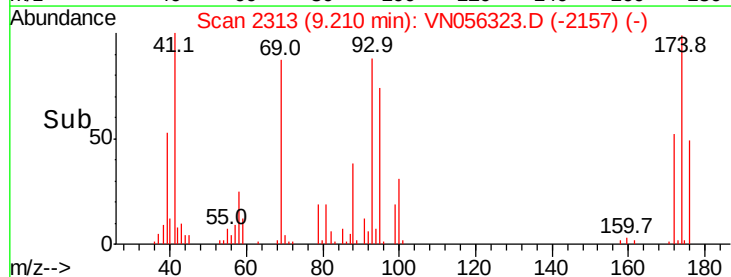
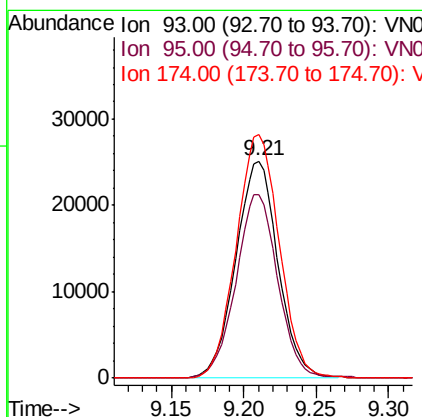
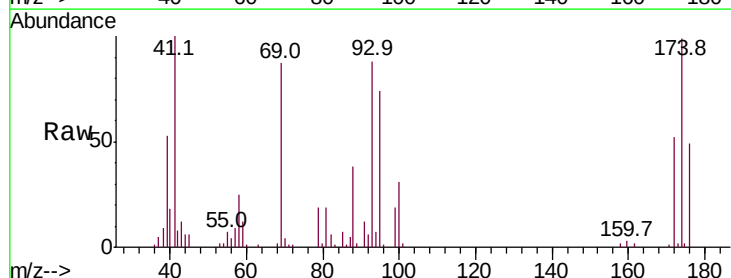
Manual Integrations
 APPROVED

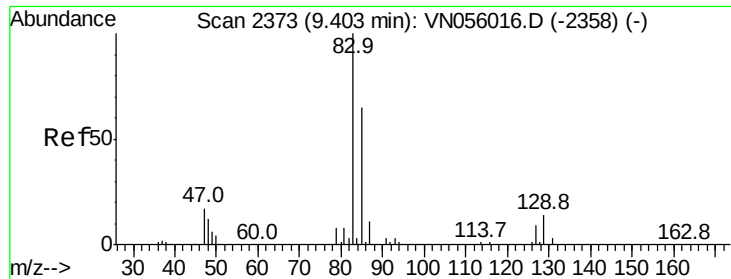
MMDadoda
 6/17/2019 9:45:22 AM



#40
 Dibromomethane
 Concen: 21.912 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Tgt Ion: 93 Resp: 50844
 Ion Ratio Lower Upper
 93 100
 95 83.5 0.0 169.0
 174 114.6 0.0 246.4





#41

Bromodichloromethane

Concen: 22.848 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

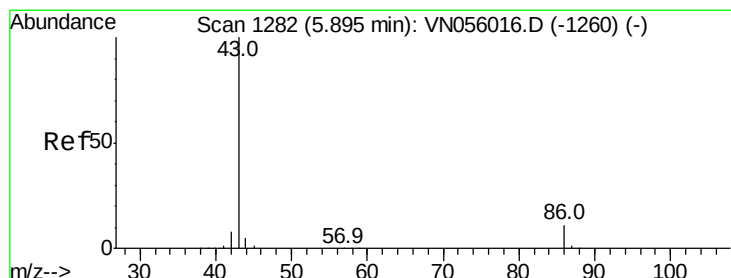
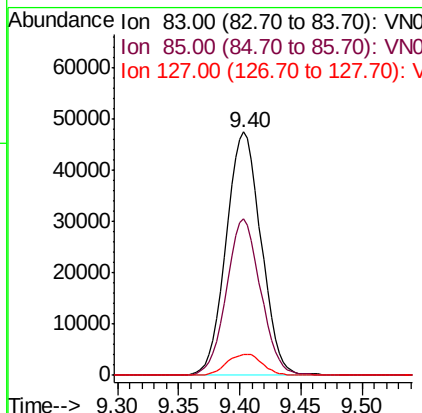
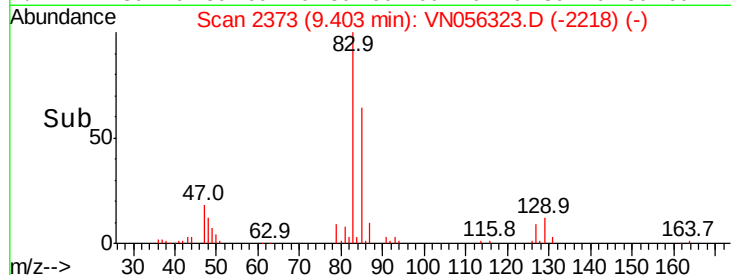
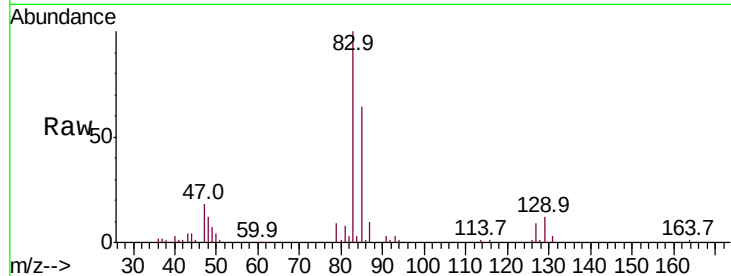
ClientSampleId :

VSTDCCC020EC

Tot Ion:	83	Resp:	94931
Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.8	77.6
127	8.7	7.3	10.9

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM



#42

Vinyl Acetate

Concen: 109.164 ug/l

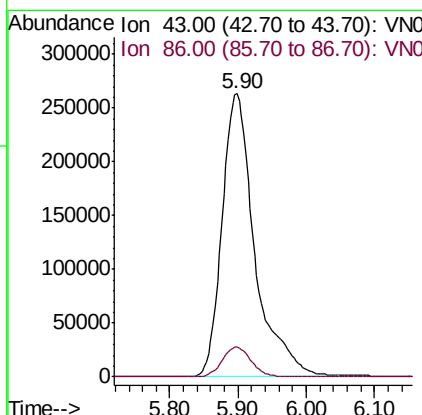
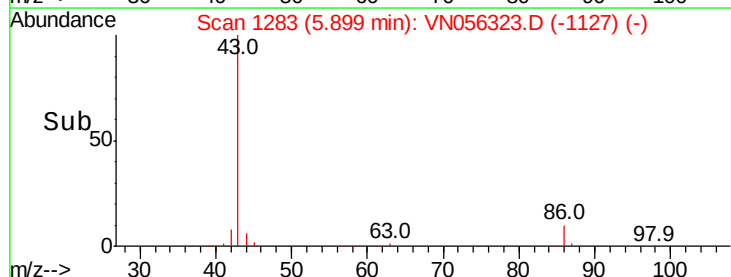
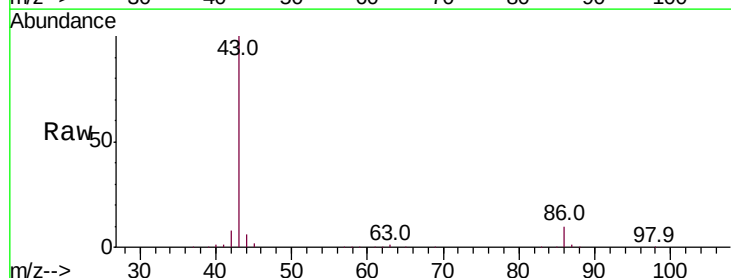
RT: 5.90 min Scan# 1283

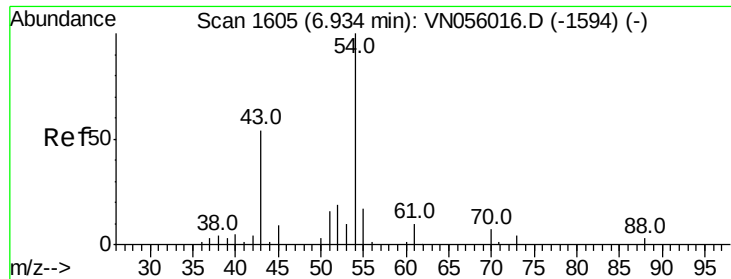
Delta R.T. 0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Tgt Ion:	43	Resp:	878656
Ion	Ratio	Lower	Upper
43	100		
86	9.3	7.9	11.9





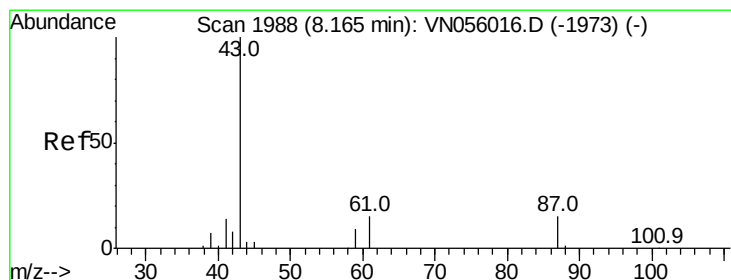
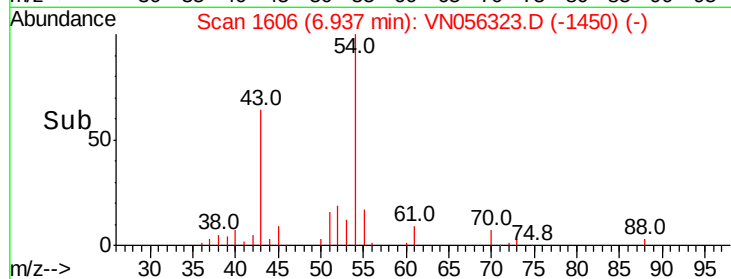
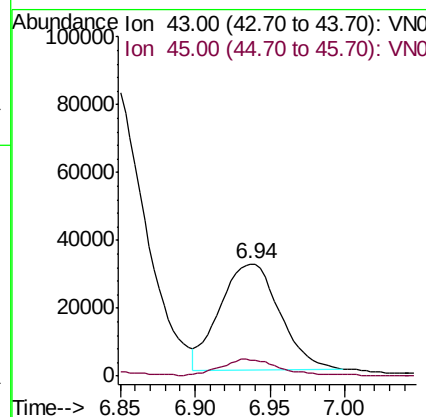
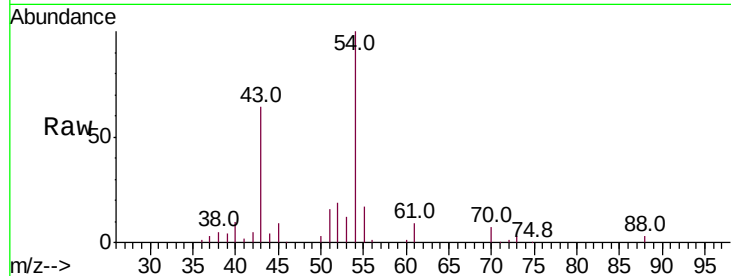
#43
Ethyl Acetate
Concen: 20.256 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 43 Resp: 87523
Ion Ratio Lower Upper
43 100
45 13.7 12.3 18.5

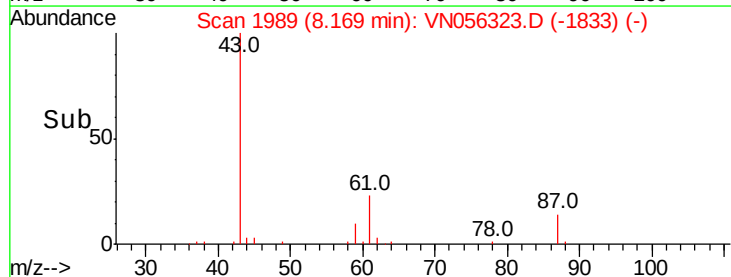
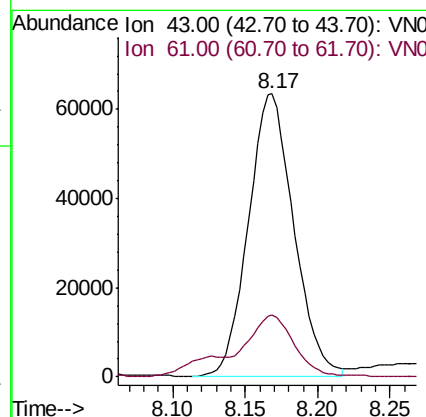
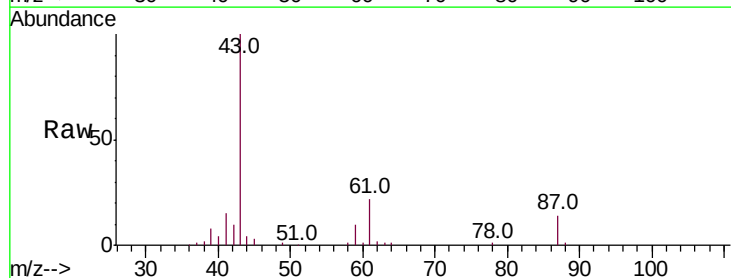
Manual Integrations
APPROVED

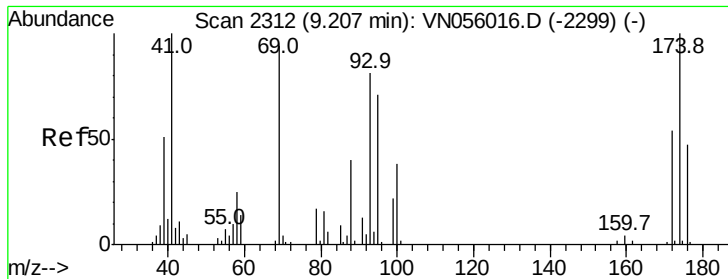
MMDadoda
6/17/2019 9:45:22 AM



#44
Isopropyl Acetate
Concen: 20.456 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion: 43 Resp: 137232
Ion Ratio Lower Upper
43 100
61 21.7 16.9 25.3





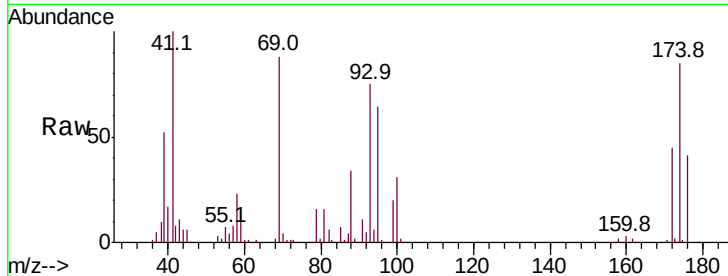
#45
 1,4-Dioxane
 Concen: 390.323 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	26.5	19.8	29.6
58	67.4	48.5	72.7

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 9:45:22 AM

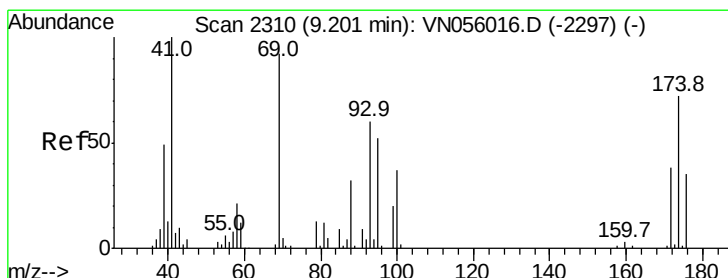
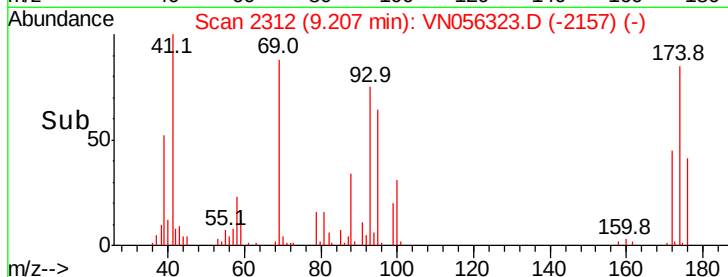
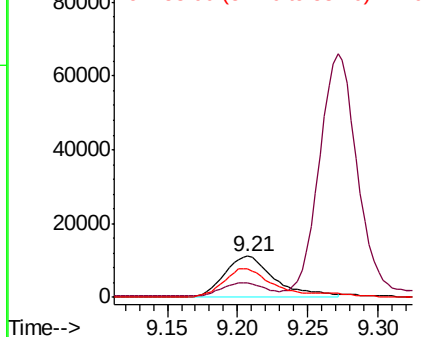


Abundance

Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#46
 Methyl methacrylate
 Concen: 21.627 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

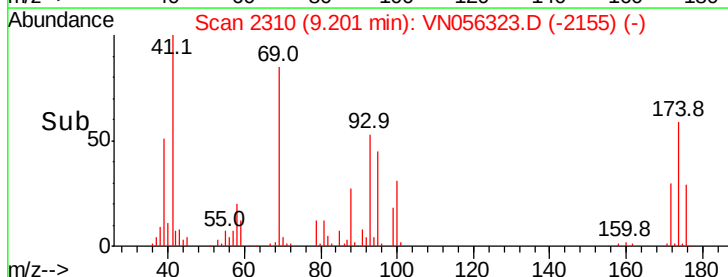
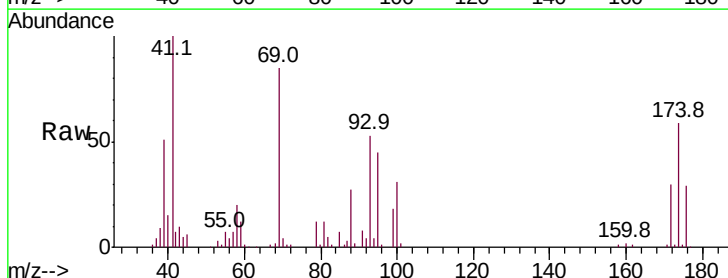
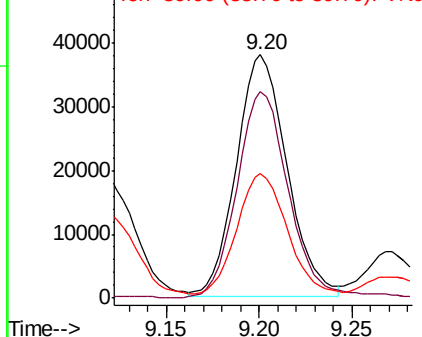
Tgt Ion	Ratio	Lower	Upper
41	100		
69	86.3	46.0	137.8
39	50.6	24.6	73.8

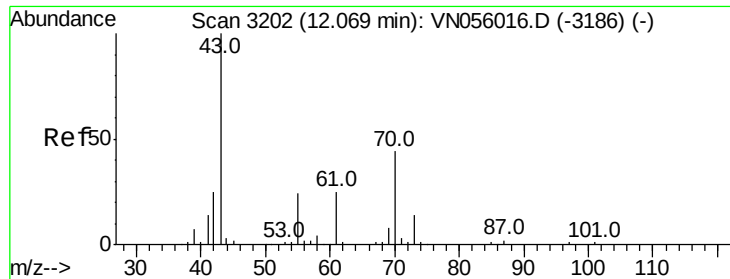
Abundance

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





#47

n-amvl Acetate

Concen: 20.142 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 43 Resp: 111748

Ion Ratio Lower Upper

43 100

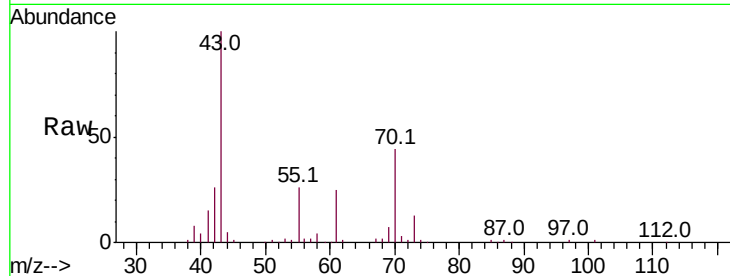
55 25.7 19.0 28.6

Manual Integrations

APPROVED

MMDadoda

6/17/2019 9:45:22 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

12.07

80000

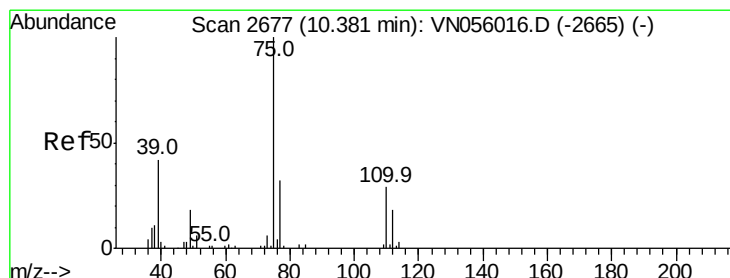
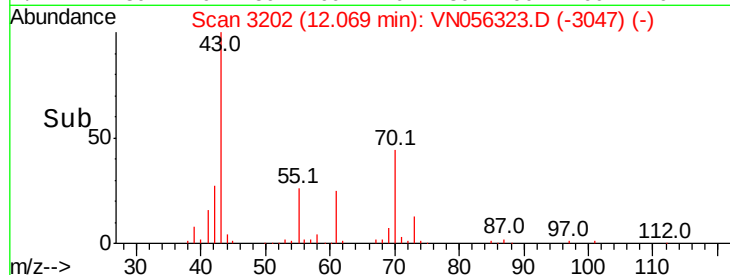
60000

40000

20000

0

Time-->



#48

t-1,3-Dichloropropene

Concen: 20.107 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN056323.D

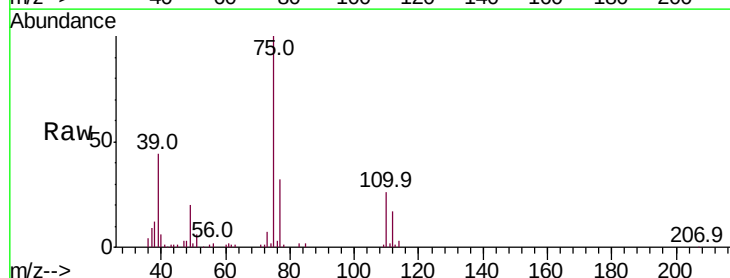
Acq: 14 Jun 2019 19:37

Tgt Ion: 75 Resp: 87922

Ion Ratio Lower Upper

75 100

77 31.2 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

10.38

50000

40000

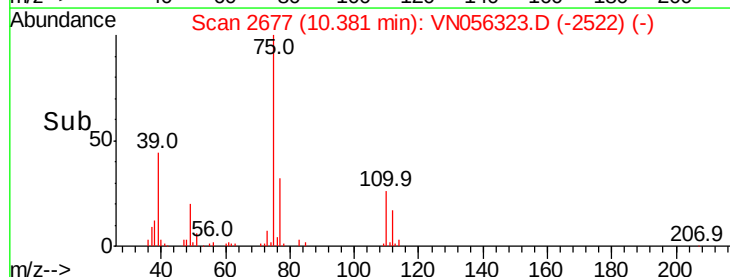
30000

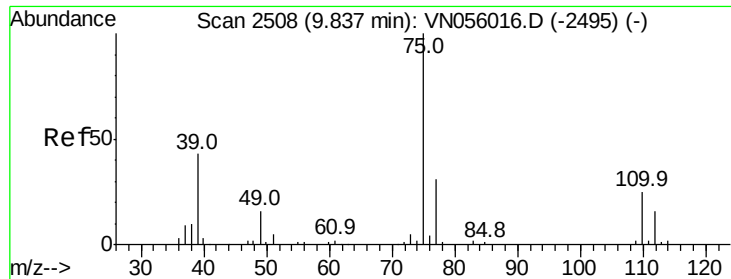
20000

10000

0

Time-->





#49

cis-1,3-Dichloropropene

Concen: 20.905 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

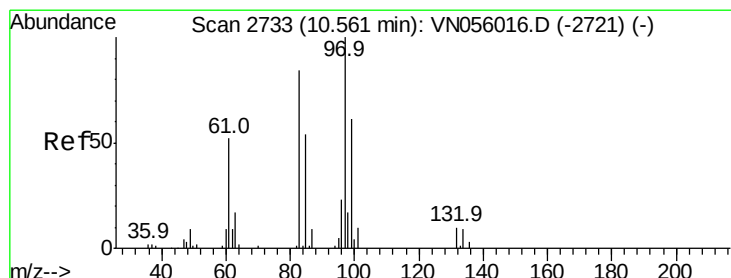
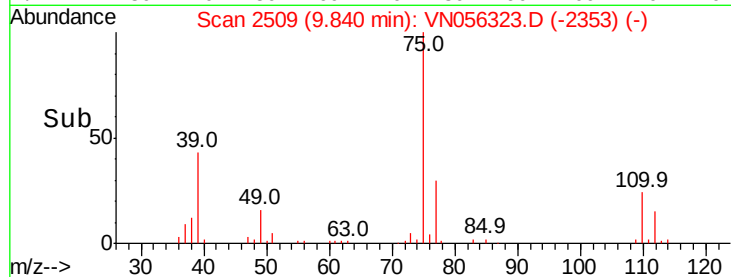
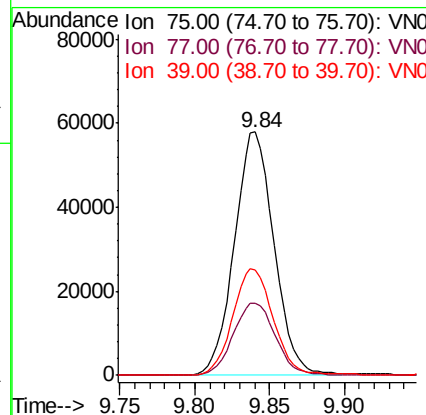
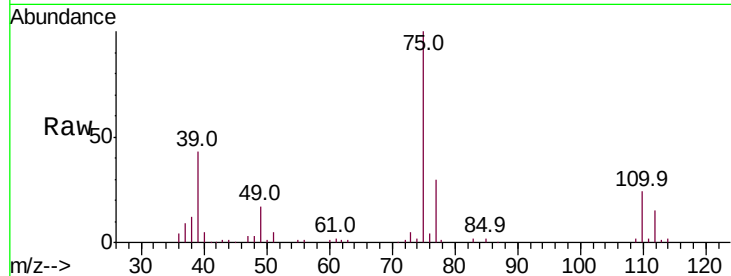
ClientSampleId :

VSTDCCC020EC

Tot Ion:	75	Resp:	107039
Ion	Ratio	Lower	Upper
75	100		
77	29.9	25.1	37.7
39	43.4	34.3	51.5

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM



#50

1,1,2-Trichloroethane

Concen: 21.084 ug/l

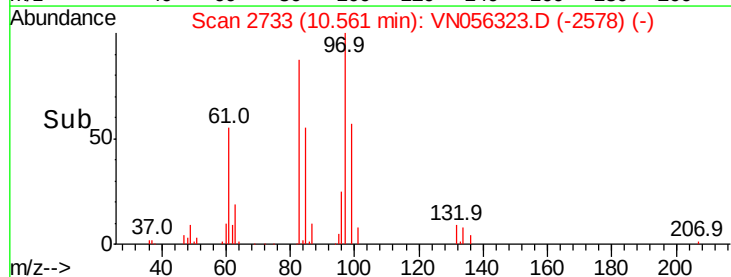
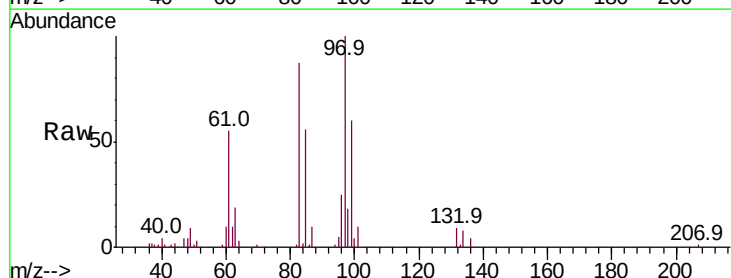
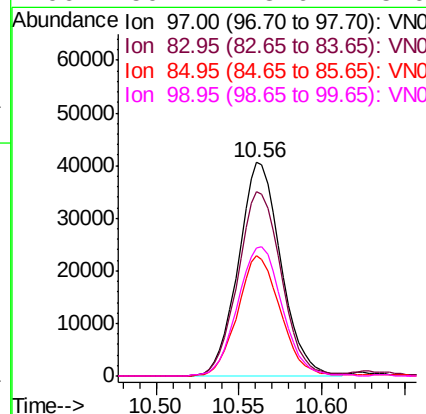
RT: 10.56 min Scan# 2733

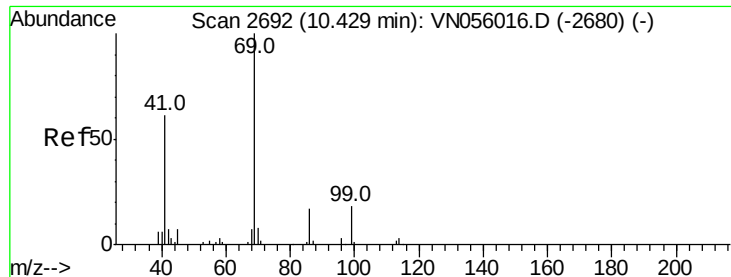
Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Tgt Ion:	97	Resp:	72664
Ion	Ratio	Lower	Upper
97	100		
83	86.2	66.9	100.3
85	56.3	43.3	64.9
99	59.7	48.6	73.0





#51

Ethyl methacrylate

Concen: 19.752 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

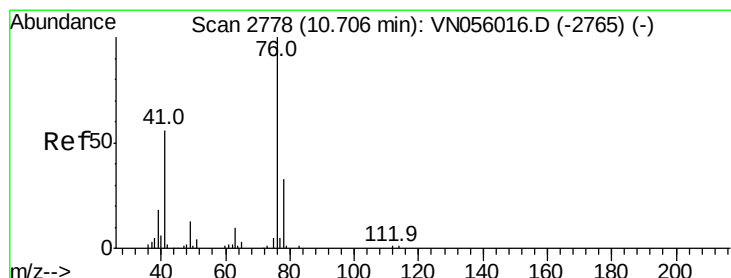
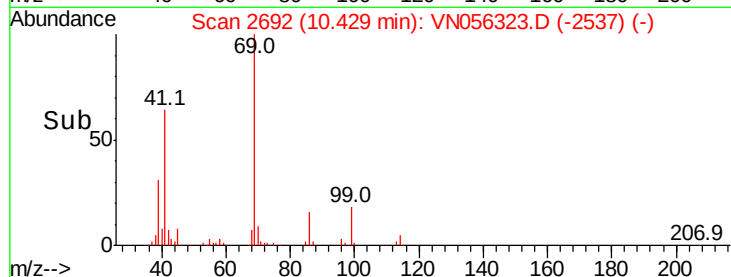
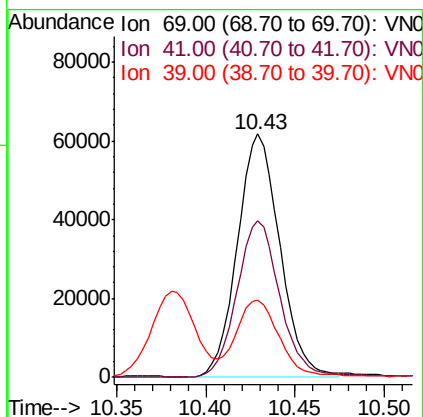
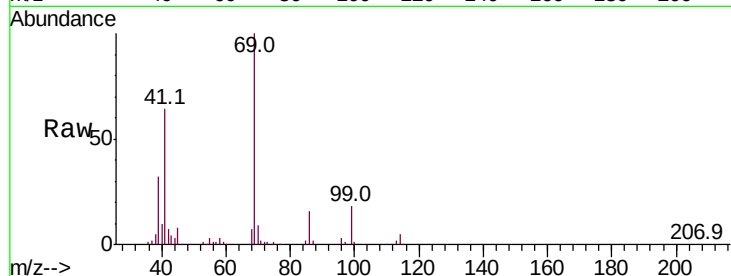
ClientSampleId :

VSTDCCC020EC

Tot Ion:	69	Resp:	102989
Ion	Ratio	Lower	Upper
69	100		
41	64.0	30.8	92.3
39	30.6	14.5	43.6

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM



#52

1,3-Dichloropropane

Concen: 21.740 ug/l

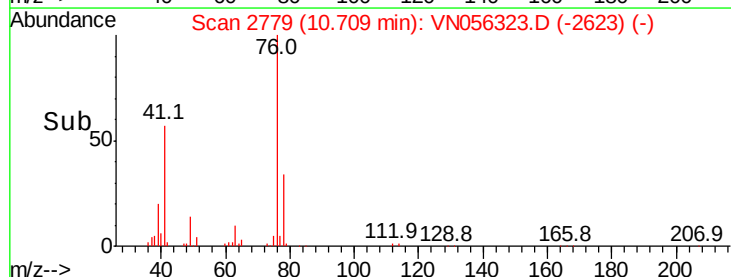
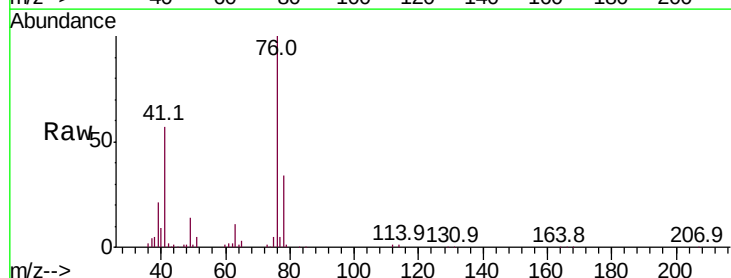
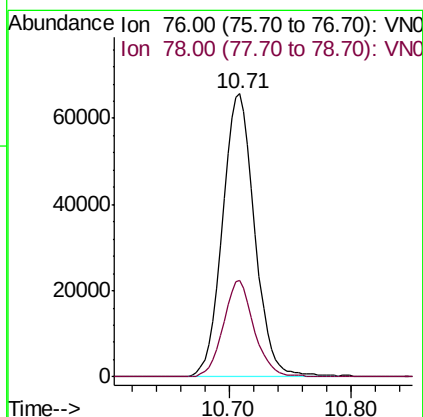
RT: 10.71 min Scan# 2779

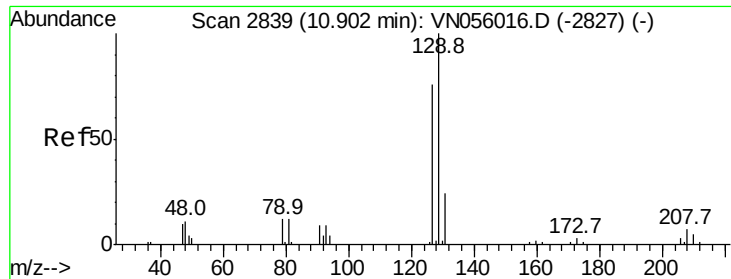
Delta R.T. 0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Tgt Ion:	76	Resp:	121468
Ion	Ratio	Lower	Upper
76	100		
78	32.3	0.0	63.4





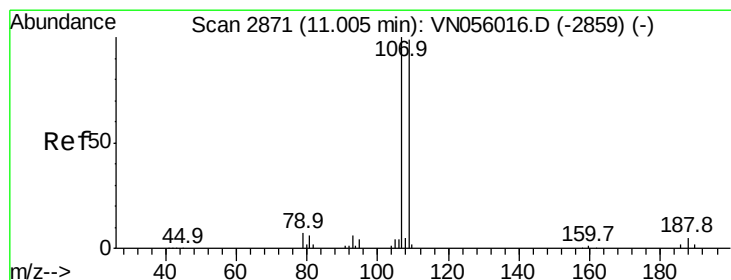
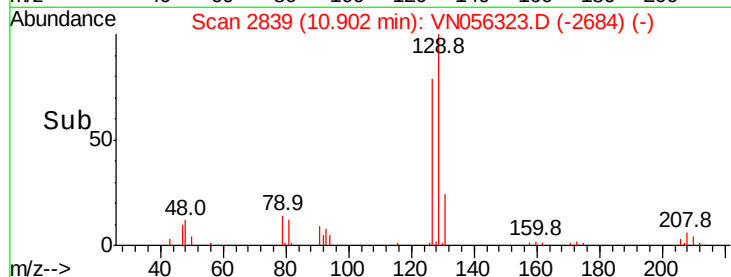
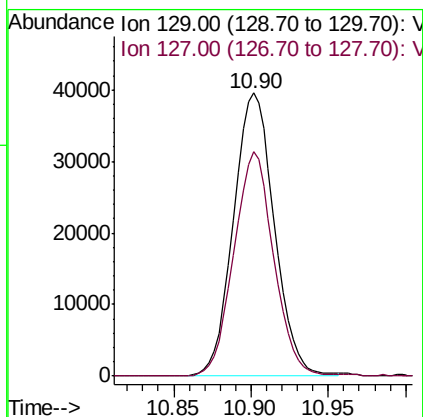
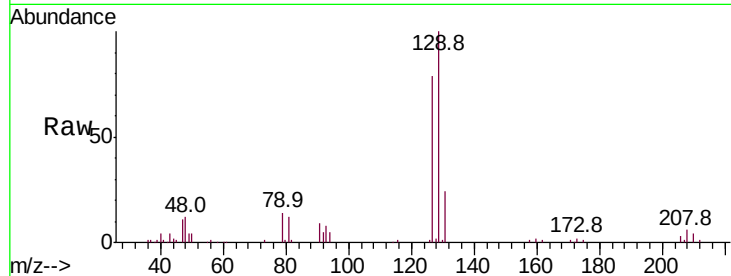
#53
Dibromochloromethane
Concen: 21.518 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:129 Resp: 72597
Ion Ratio Lower Upper
129 100
127 77.4 39.1 117.5

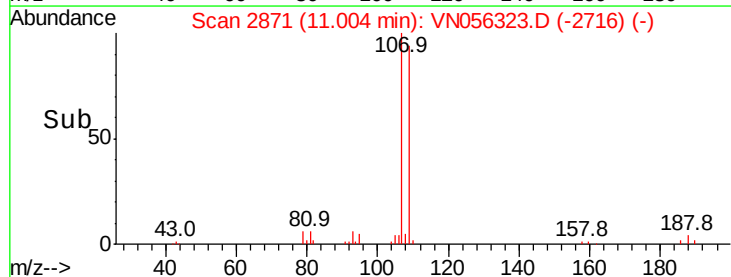
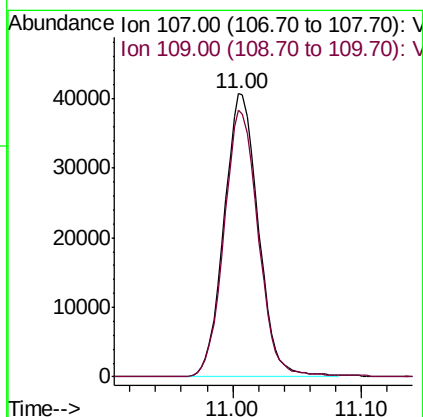
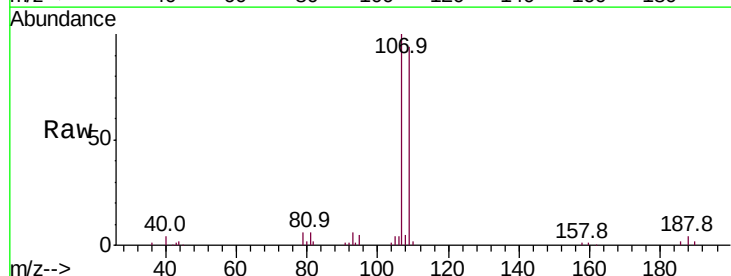
Manual Integrations
APPROVED

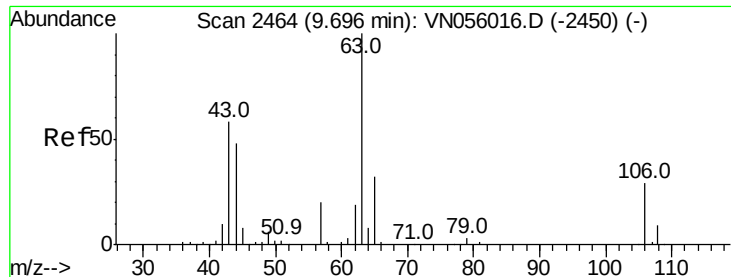
MMDadoda
6/17/2019 9:45:22 AM



#54
1,2-Dibromoethane
Concen: 20.905 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion:107 Resp: 75184
Ion Ratio Lower Upper
107 100
109 94.1 76.8 115.2





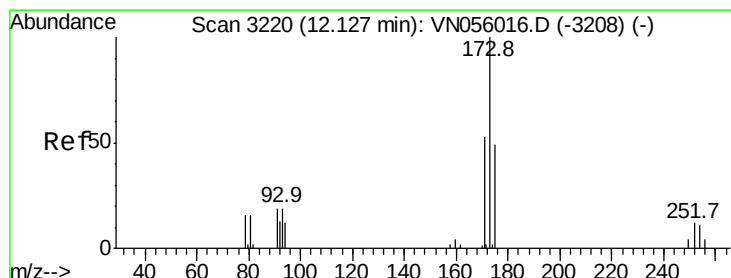
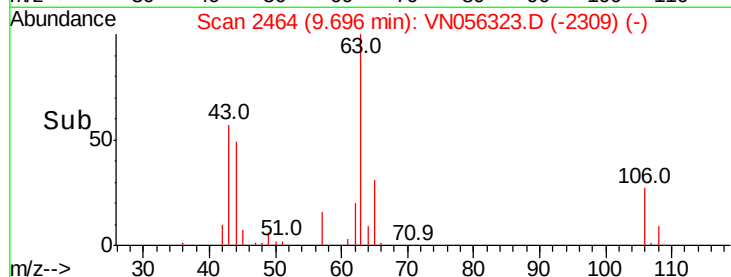
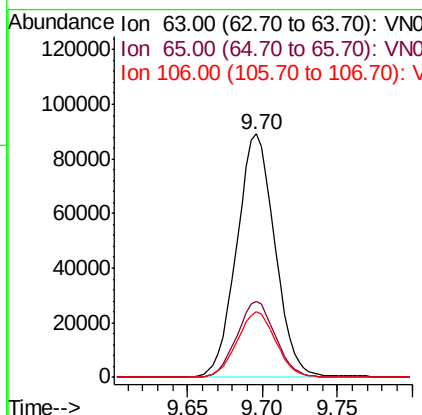
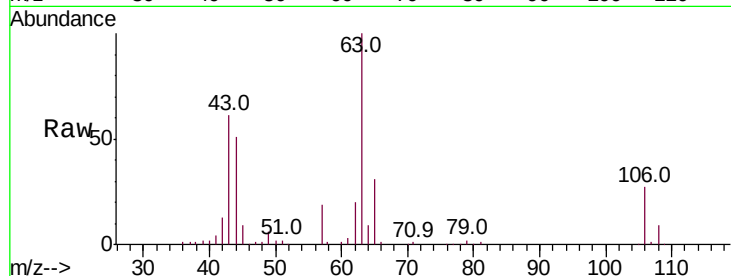
#55
2-Chloroethyl vinyl ether
Concen: 86.856 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.5	38.3
106	27.1	23.0	34.4

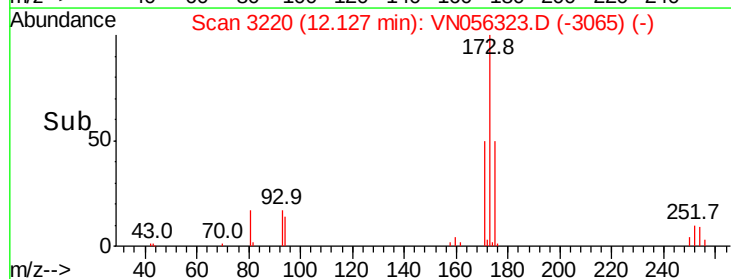
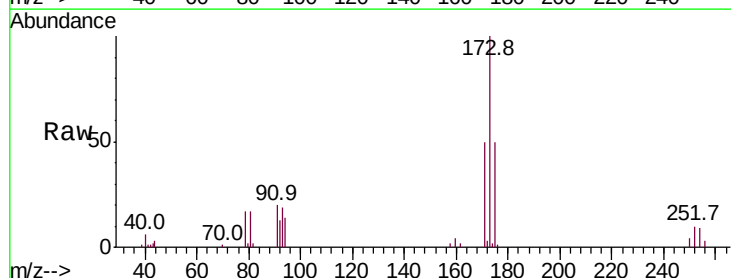
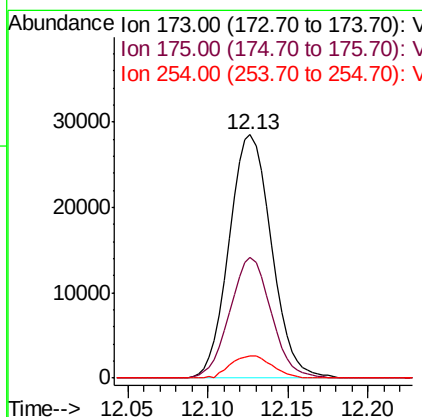
Manual Integrations
APPROVED

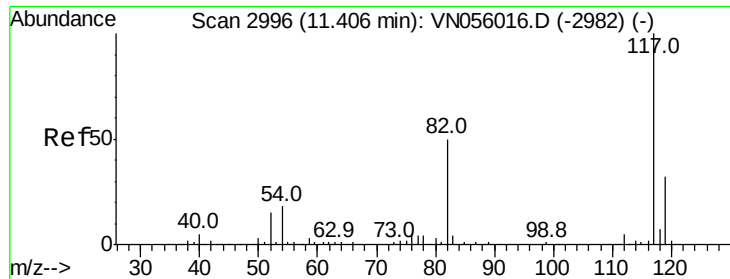
MMDadoda
6/17/2019 9:45:22 AM



#56
Bromoform
Concen: 21.154 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.7	58.1
254	8.7	6.6	9.8





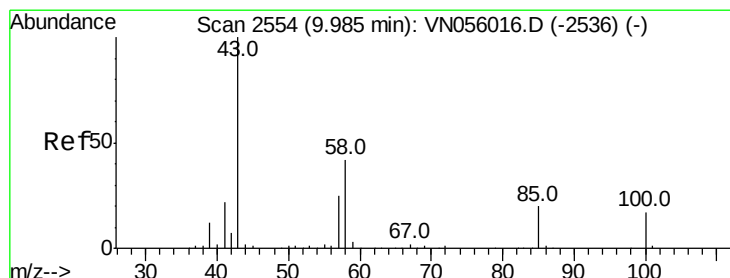
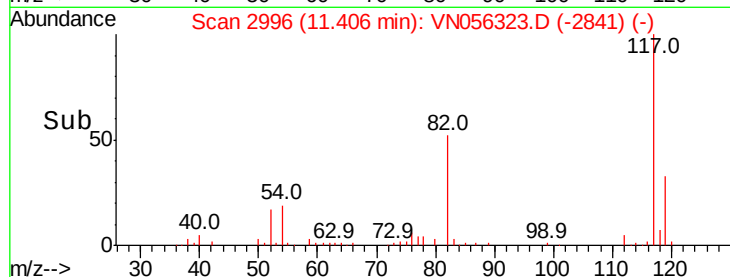
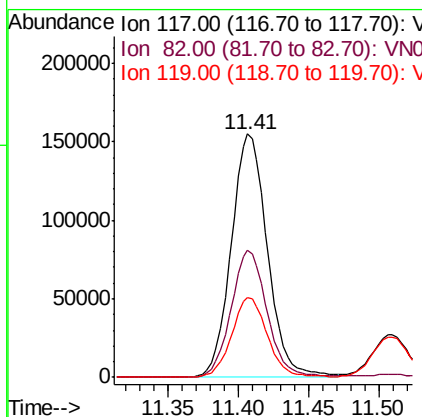
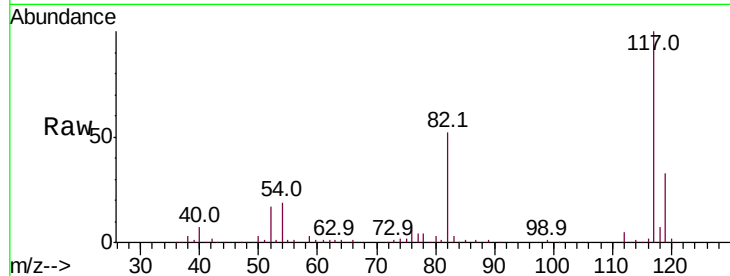
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.7	41.2	61.8
119	32.4	26.2	39.2

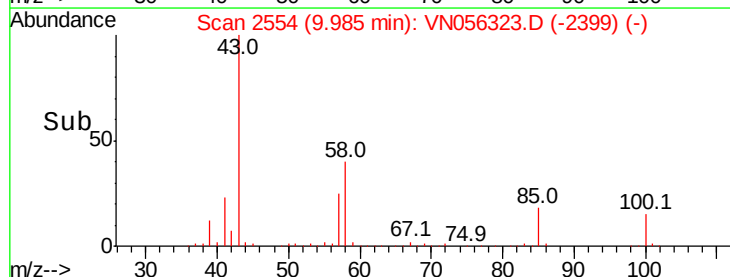
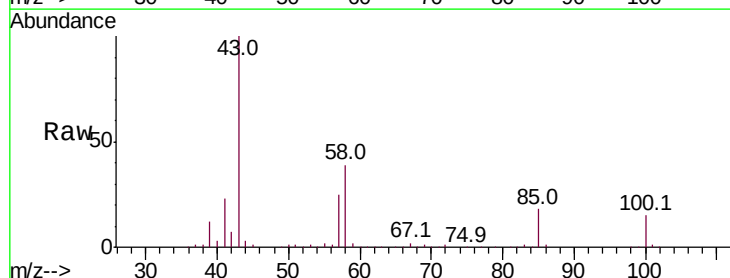
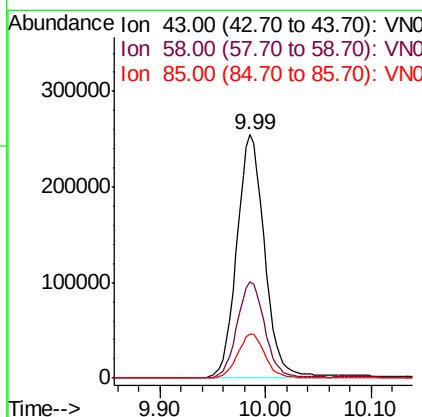
Manual Integrations
APPROVED

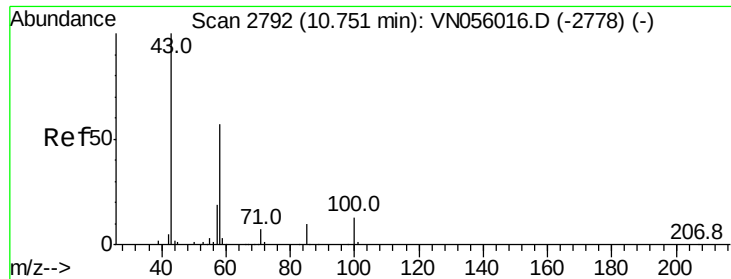
MMDadoda
6/17/2019 9:45:22 AM



#58
4-Methyl-2-Pentanone
Concen: 110.242 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.8	33.1	49.7
85	18.1	15.5	23.3





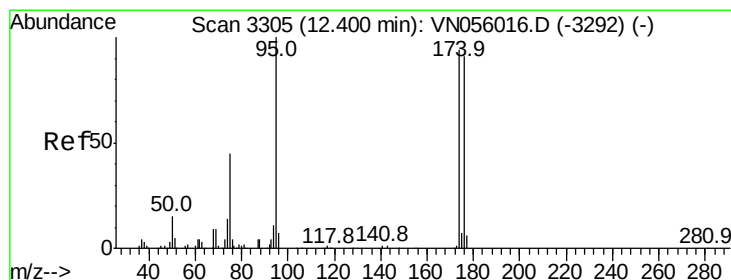
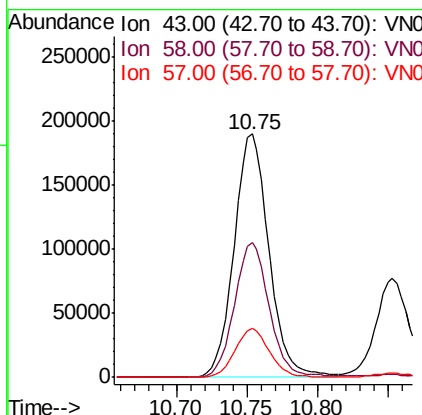
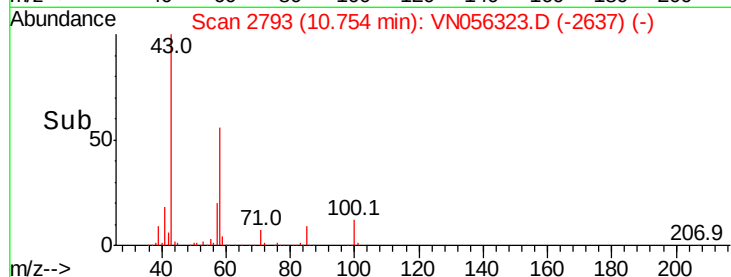
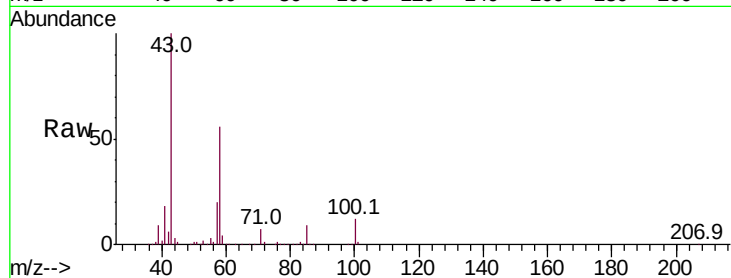
#59
2-Hexanone
Concen: 108.966 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.6	45.3	67.9
57	20.0	15.6	23.4

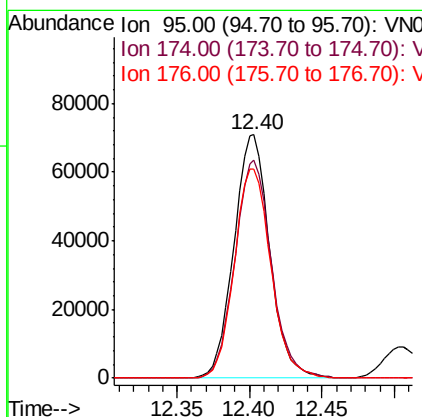
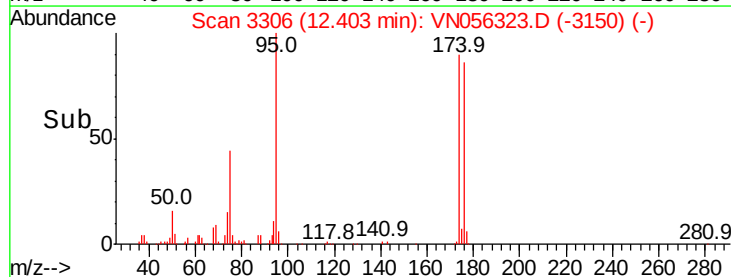
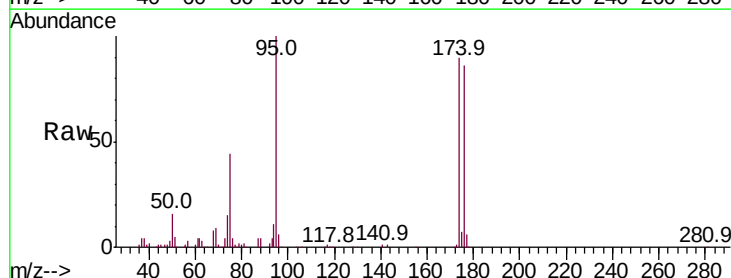
Manual Integrations
APPROVED

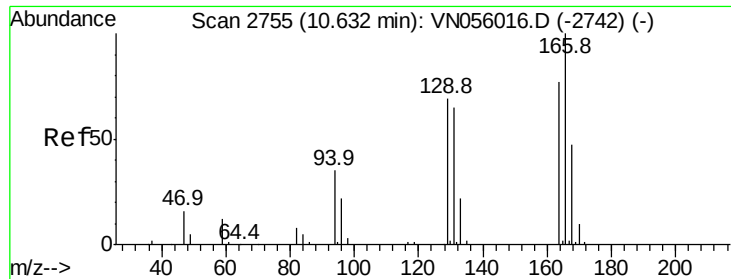
MMDadoda
6/17/2019 9:45:22 AM



#60
4-Bromofluorobenzene
Concen: 29.532 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.2	75.4	113.0
176	87.6	73.9	110.9





#61

Tetrachloroethene

Concen: 19.336 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:164 Resp: 74992

Ion Ratio Lower Upper

164 100

166 130.6 104.3 156.5

129 89.7 71.5 107.3

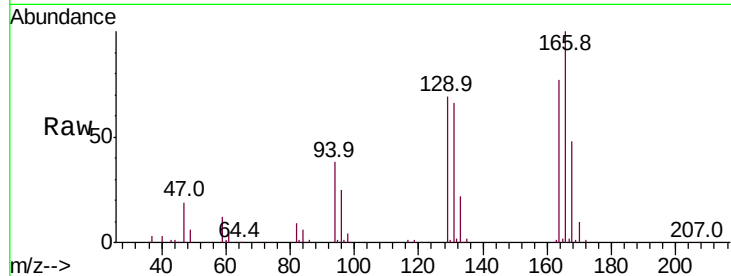
131 85.9 67.7 101.5

Manual Integrations

APPROVED

MMDadoda

6/17/2019 9:45:22 AM

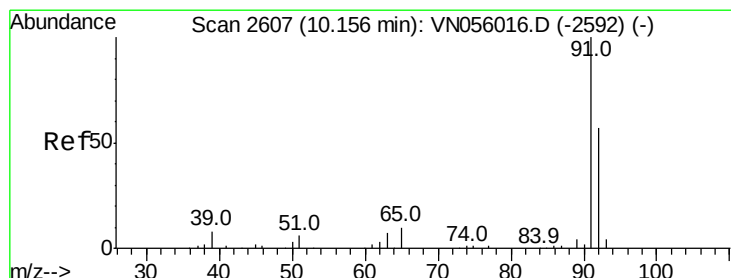
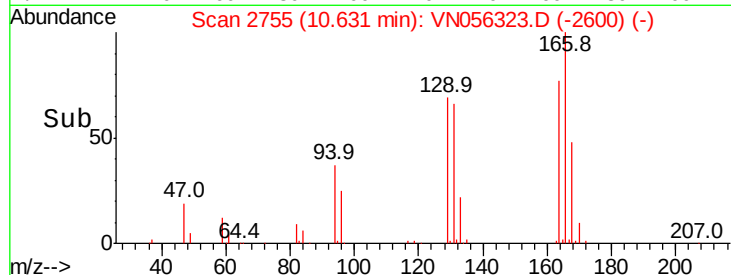
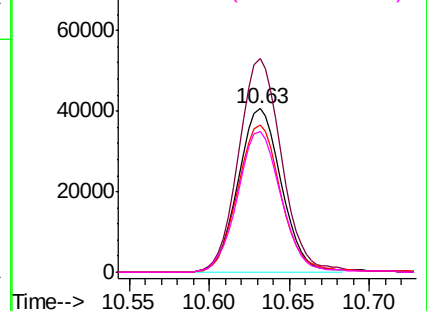


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 20.605 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN056323.D

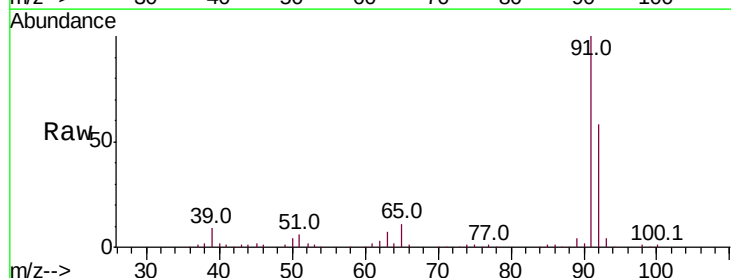
Acq: 14 Jun 2019 19:37

Tgt Ion: 91 Resp: 309540

Ion Ratio Lower Upper

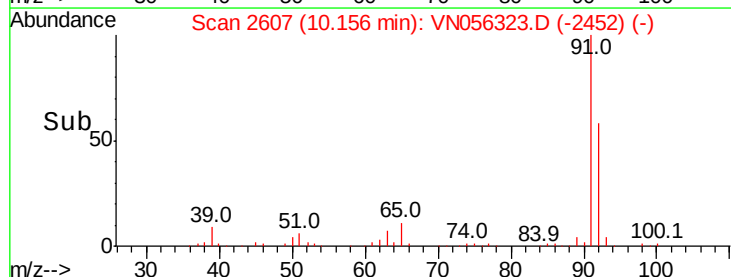
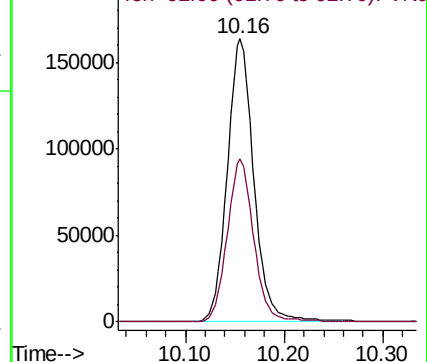
91 100

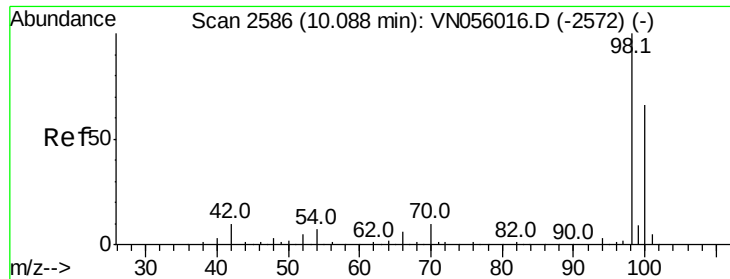
92 57.3 45.5 68.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





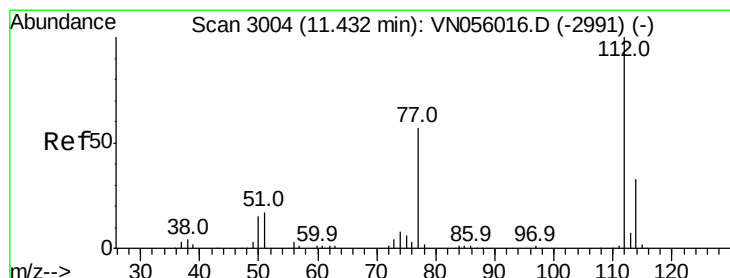
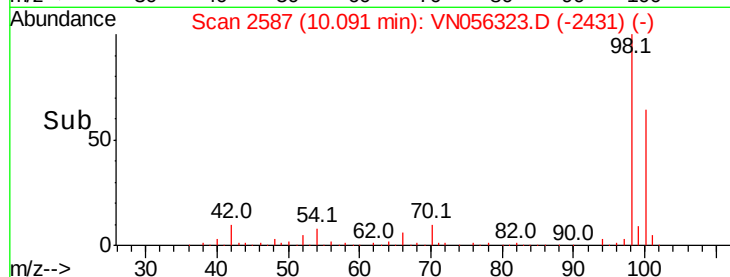
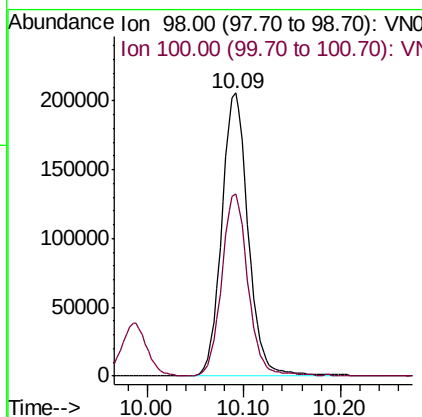
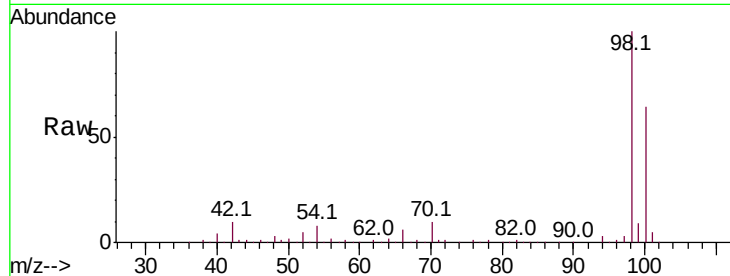
#63
Toluene-d8
Concen: 31.014 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 98 Resp: 391505
Ion Ratio Lower Upper
98 100
100 63.0 52.2 78.4

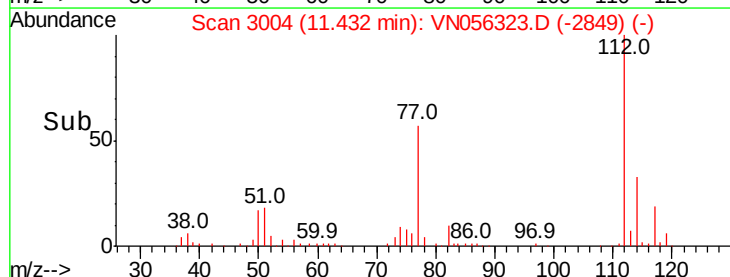
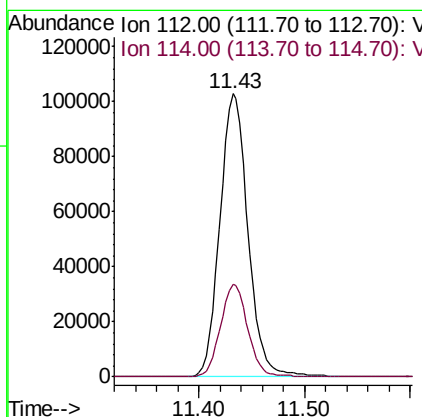
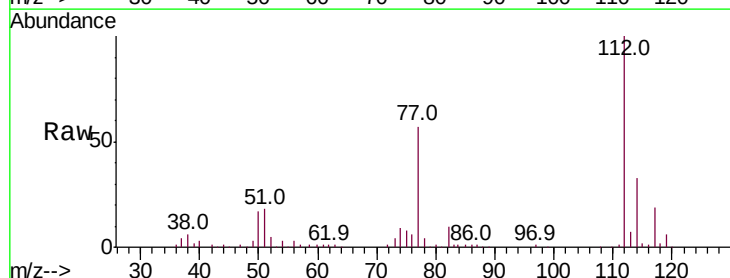
Manual Integrations
APPROVED

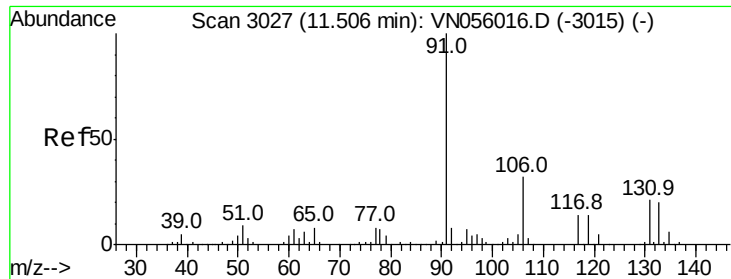
MMDadoda
6/17/2019 9:45:22 AM



#64
Chlorobenzene
Concen: 20.810 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion: 112 Resp: 189624
Ion Ratio Lower Upper
112 100
114 32.6 26.1 39.1





#65

1,1,1,2-Tetrachloroethane

Concen: 21.724 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

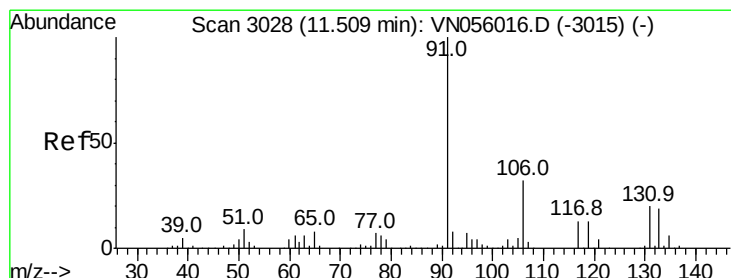
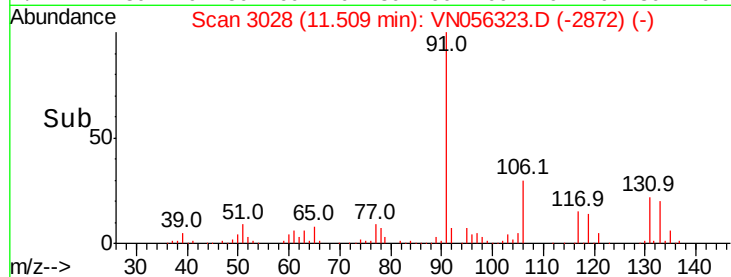
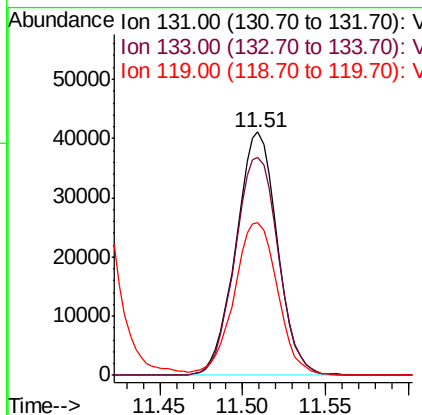
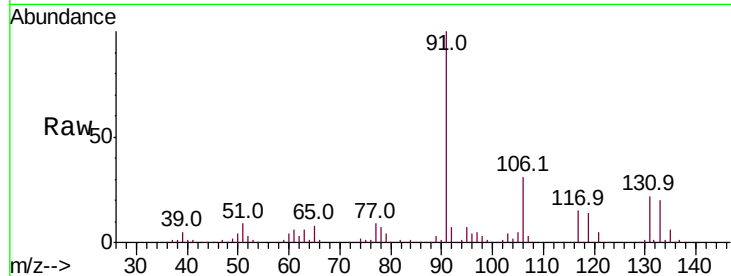
ClientSampleId :

VSTDCCC020EC

Tot Ion:	131	Resp:	71381
Ion Ratio	Lower	Upper	
131	100		
133	94.2	0.0	193.8
119	66.2	0.0	134.4

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM



#66

Ethyl Benzene

Concen: 20.413 ug/l

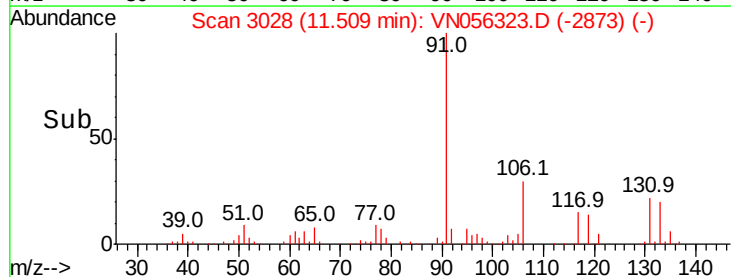
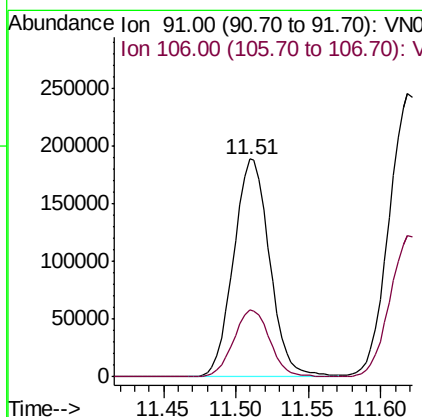
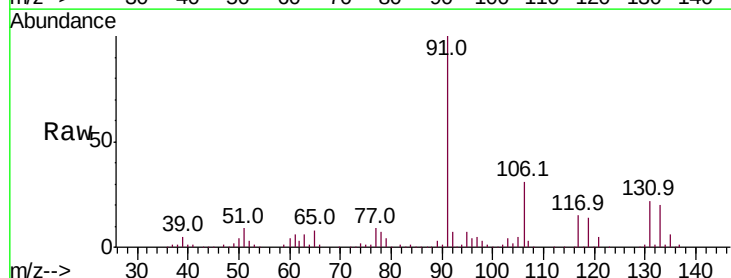
RT: 11.51 min Scan# 3028

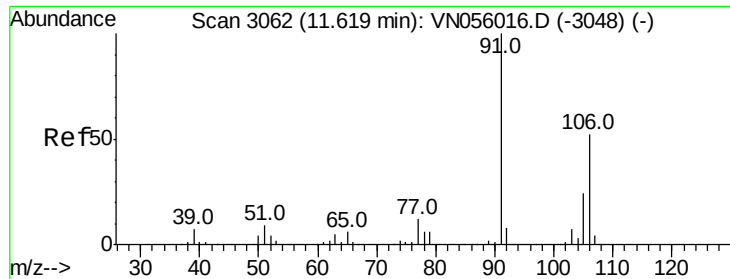
Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Tgt Ion:	91	Resp:	326617
Ion Ratio	Lower	Upper	
91	100		
106	30.6	25.7	38.5





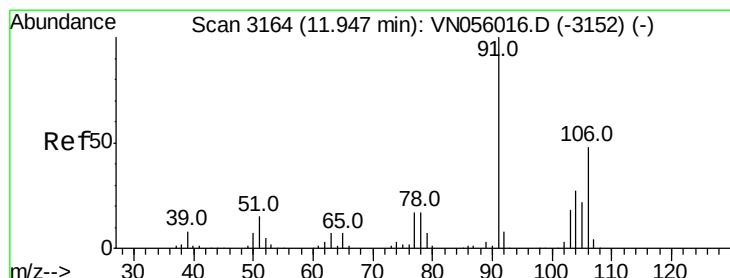
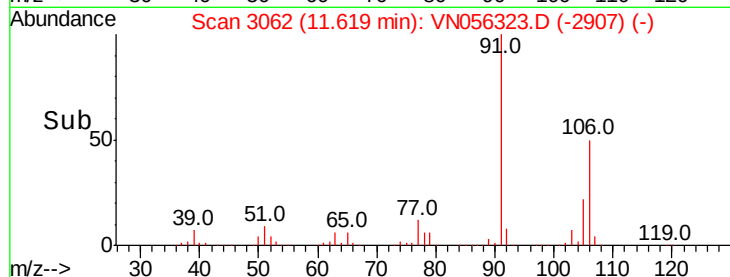
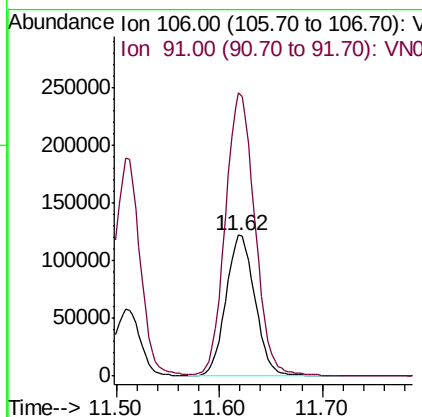
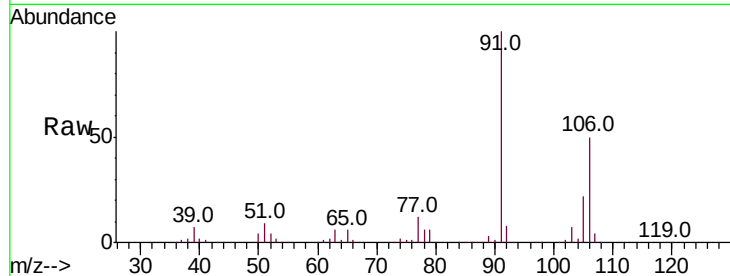
#67
m/p-Xylenes
Concen: 39.367 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:106 Resp: 241100
Ion Ratio Lower Upper
106 100
91 203.6 155.7 233.5

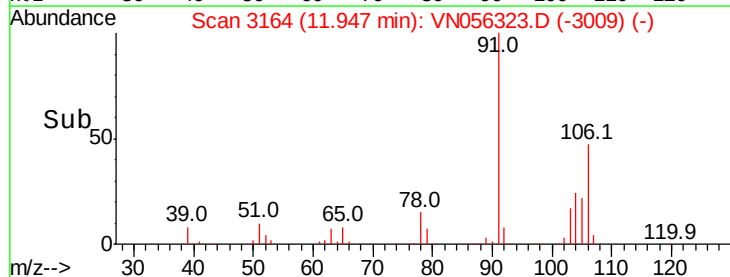
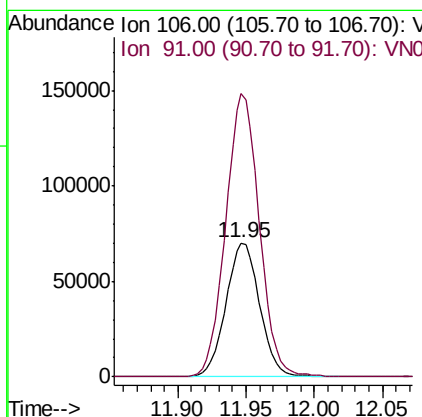
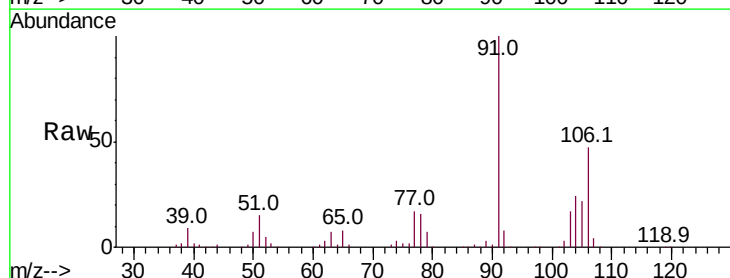
Manual Integrations
APPROVED

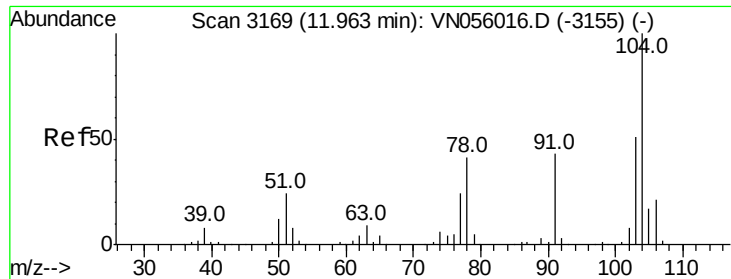
MMDadoda
6/17/2019 9:45:22 AM



#68
o-Xylene
Concen: 20.126 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion:106 Resp: 120670
Ion Ratio Lower Upper
106 100
91 210.4 103.9 311.7





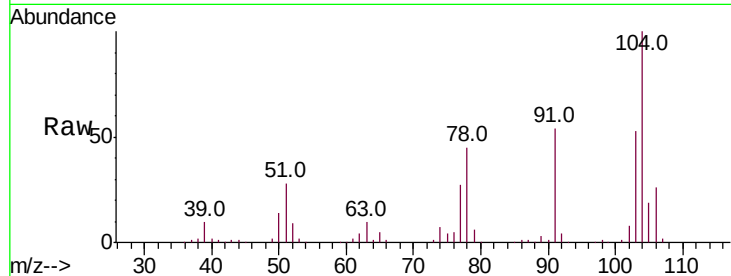
#69
Stvrene
Concen: 19.559 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

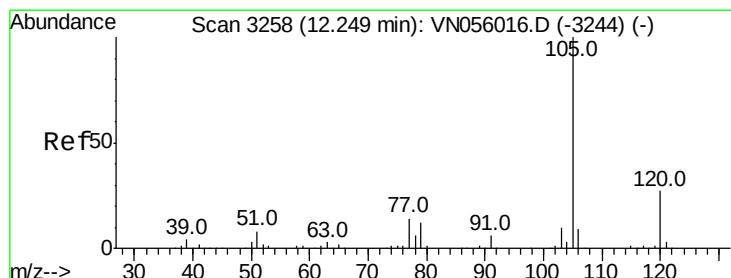
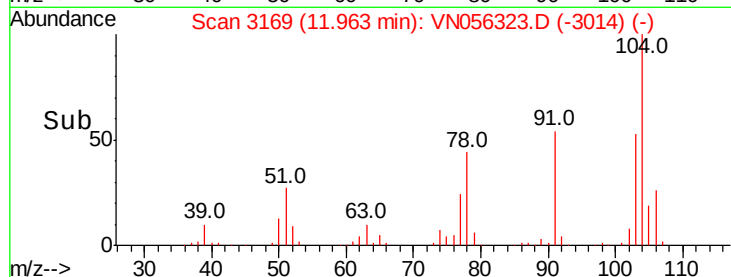
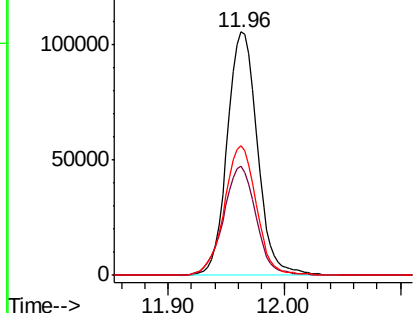
Tot Ion	Ratio	Lower	Upper
104	100		
78	48.4	37.0	55.6
103	56.7	44.4	66.6

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM

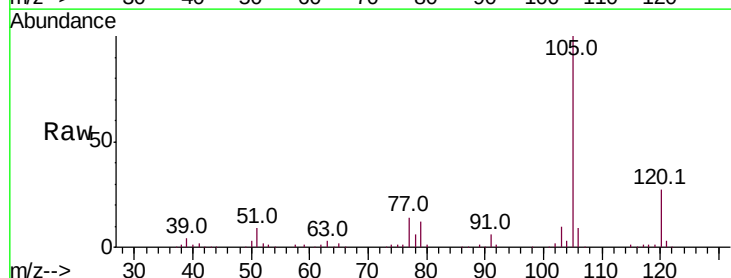


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V

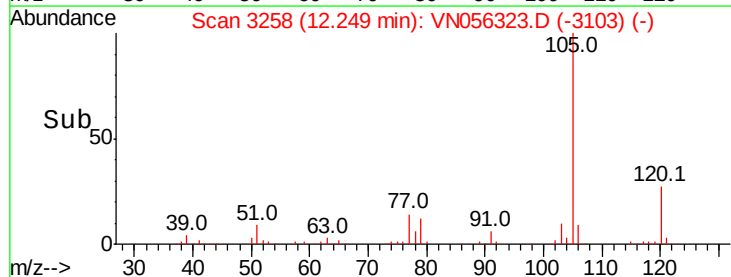
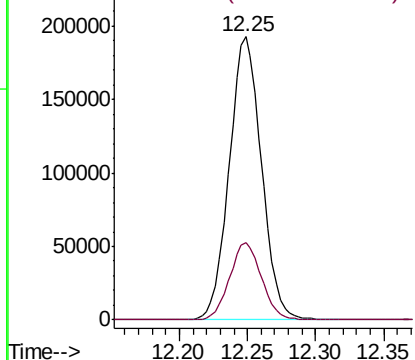


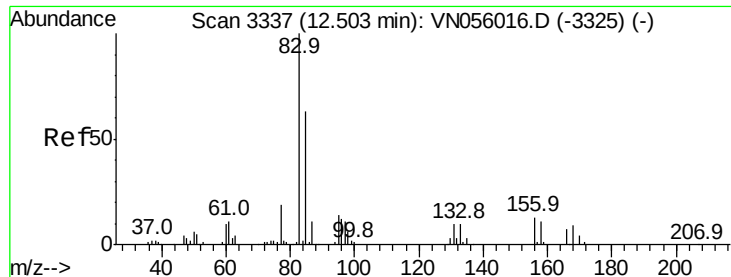
#70
Isopropylbenzene
Concen: 20.188 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	19.3	35.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





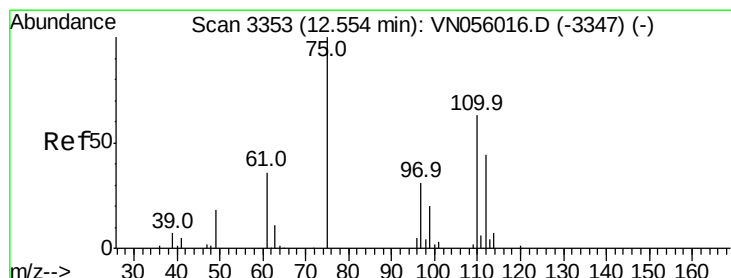
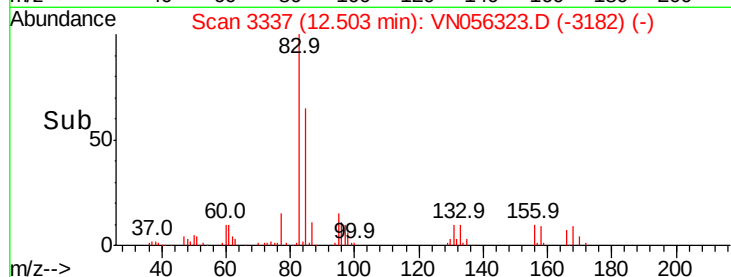
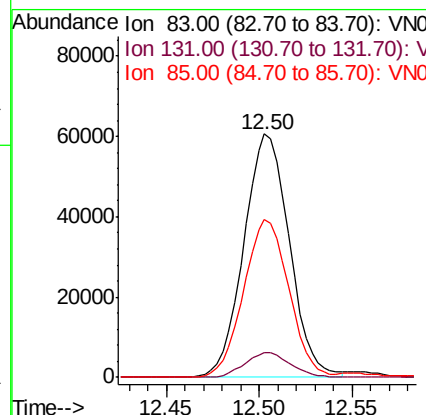
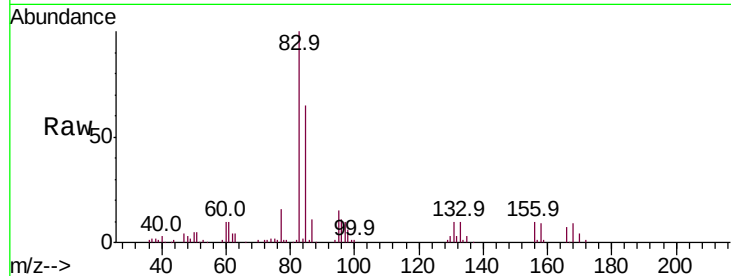
#71
 1,1,2,2-Tetrachloroethane
 Concen: 21.836 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.2	15.6
85	64.4	31.6	94.7

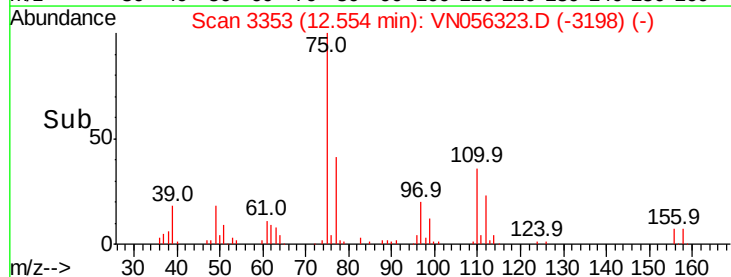
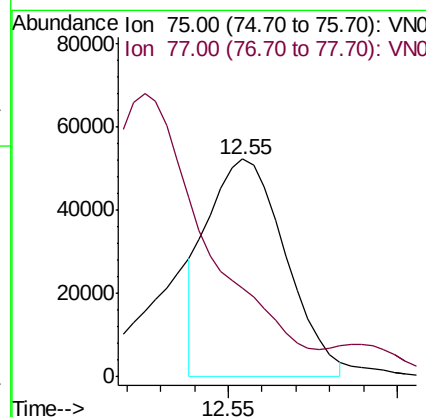
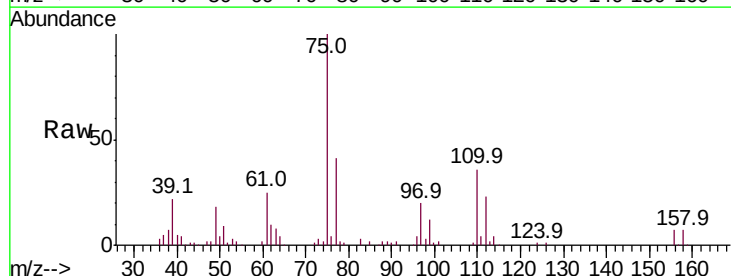
Manual Integrations
 APPROVED

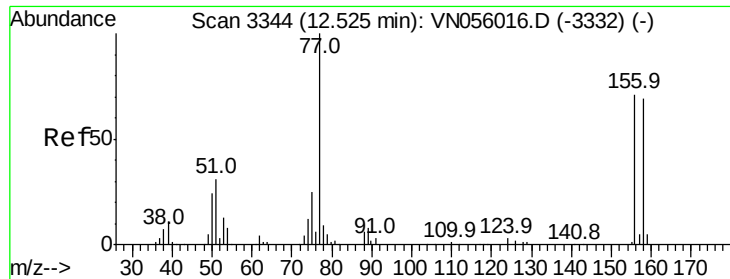
MMDadoda
 6/17/2019 9:45:22 AM



#72
 1,2,3-Trichloropropane
 Concen: 20.537 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
75	100		
77	179.6	0.0	350.0





#73

Bromobenzene

Concen: 19.489 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

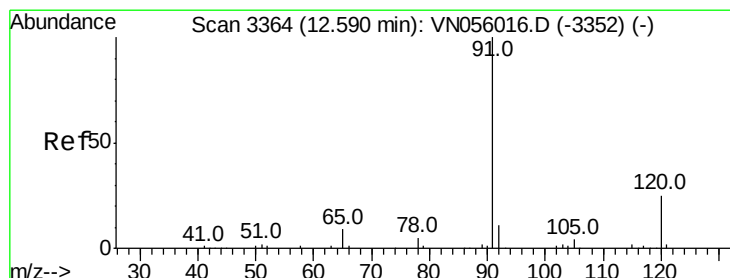
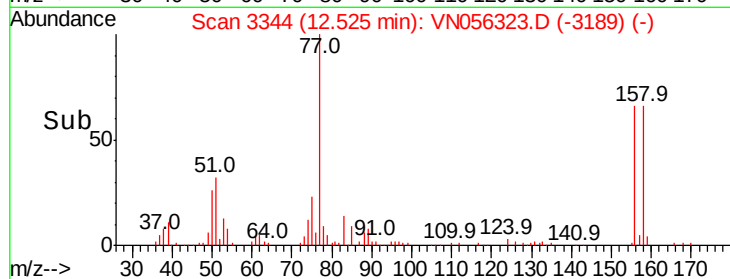
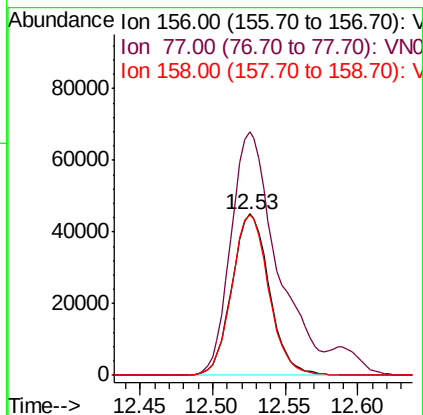
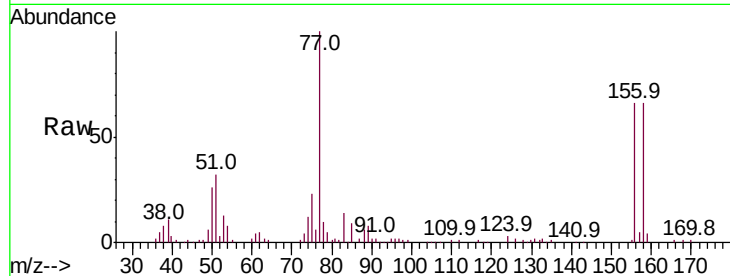
ClientSampleId :

VSTDCCC020EC

Tot Ion:	156	Resp:	81035
Ion	Ratio	Lower	Upper
156	100		
77	186.1	0.0	350.8
158	98.0	0.0	193.2

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM



#74

n-propylbenzene

Concen: 19.778 ug/l

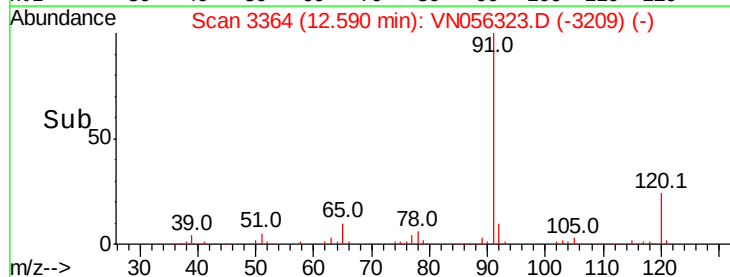
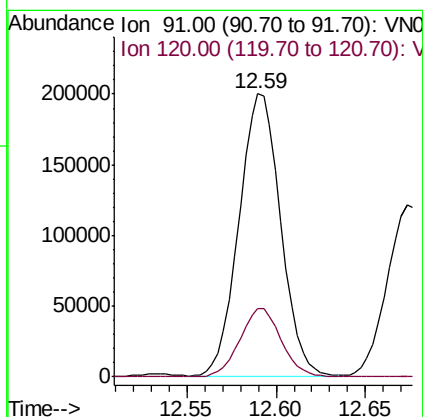
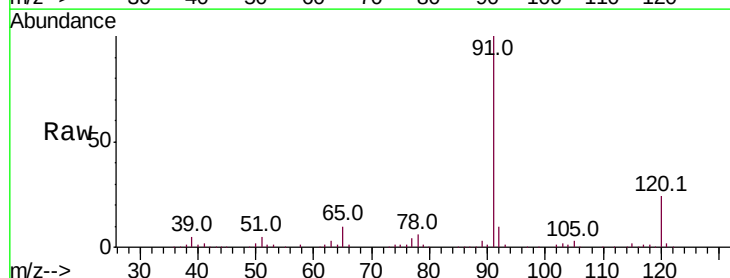
RT: 12.59 min Scan# 3364

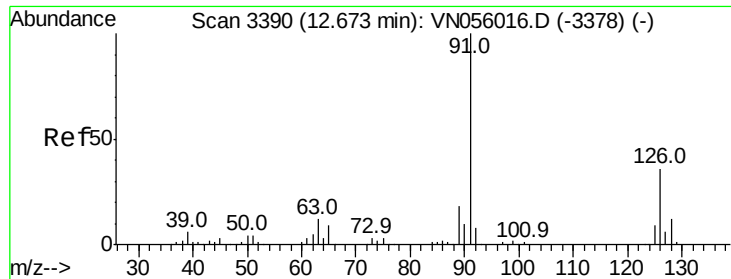
Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Tgt Ion:	91	Resp:	326963
Ion	Ratio	Lower	Upper
91	100		
120	23.8	0.0	48.6





#75

2-Chlorotoluene

Concen: 20.226 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 91 Resp: 207395

Ion Ratio Lower Upper

91 100

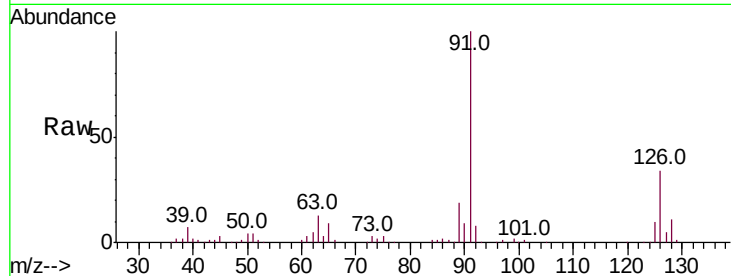
126 35.6 0.0 72.4

Manual Integrations

APPROVED

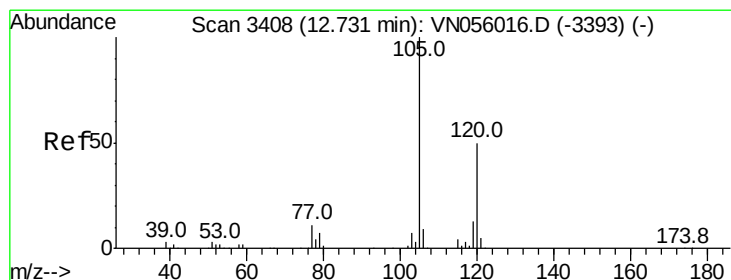
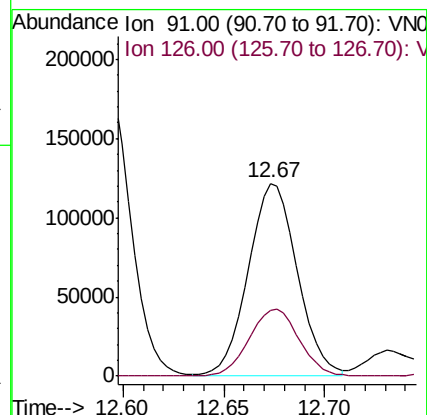
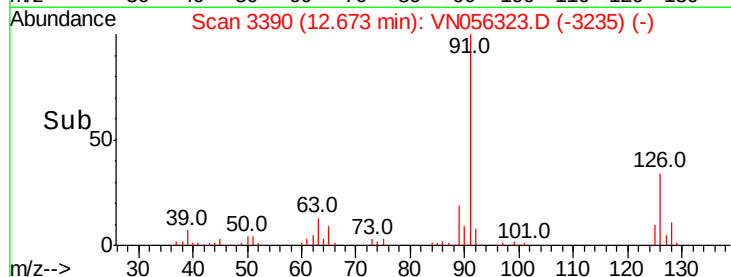
MMDadoda

6/17/2019 9:45:22 AM



Abundance Ion 91.00 (90.70 to 91.70): VN056016.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN056016.D (-3378) (-)



#76

1,3,5-Trimethylbenzene

Concen: 19.922 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN056323.D

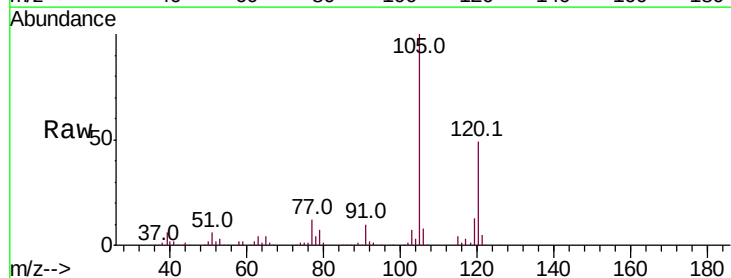
Acq: 14 Jun 2019 19:37

Tgt Ion: 105 Resp: 256707

Ion Ratio Lower Upper

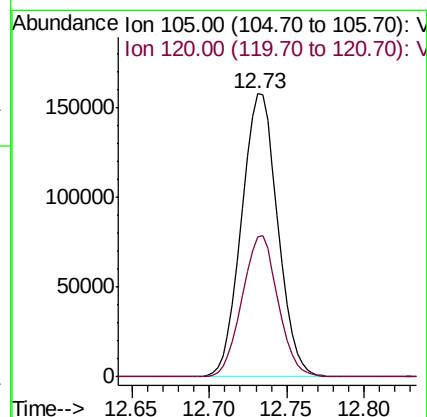
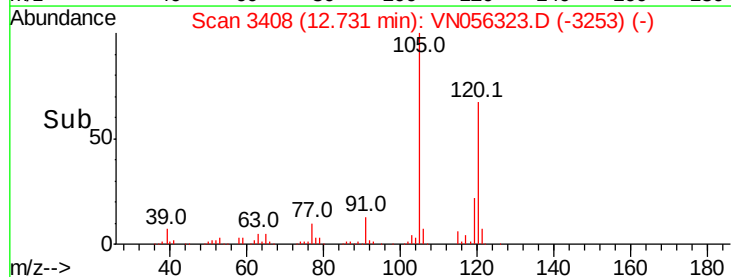
105 100

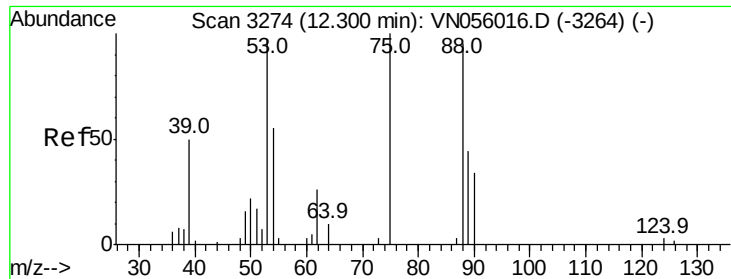
120 49.6 0.0 100.6



Abundance Ion 105.00 (104.70 to 105.70): VN056016.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN056016.D (-3393) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 19.086 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 75 Resp: 22267

Ion Ratio Lower Upper

75 100

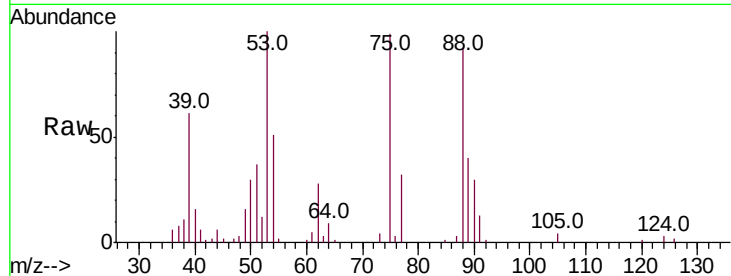
53 102.7 48.0 144.0

89 40.7 22.5 67.5

Manual Integrations
APPROVED

MMDadoda

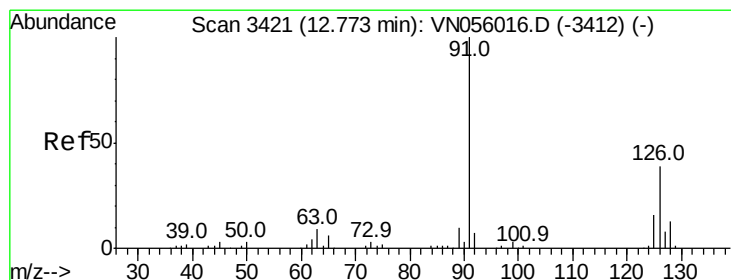
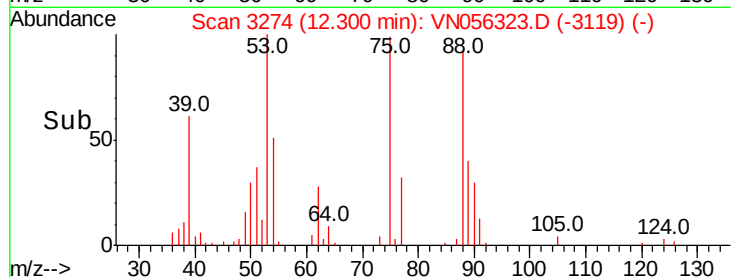
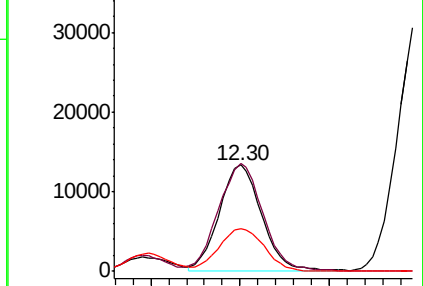
6/17/2019 9:45:22 AM



Abundance Ion 75.00 (74.70 to 75.70): VN056016.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN056016.D (-3264) (-)

Ion 89.00 (88.70 to 89.70): VN056016.D (-3264) (-)



#78

4-Chlorotoluene

Concen: 19.310 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN056323.D

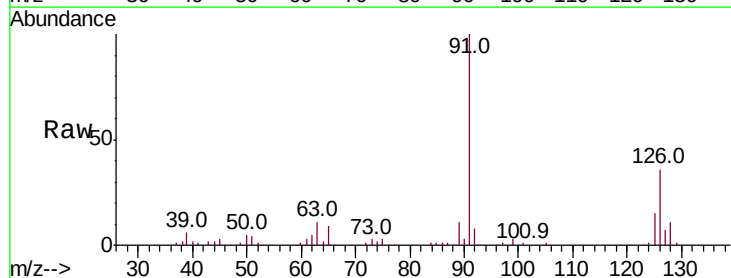
Acq: 14 Jun 2019 19:37

Tgt Ion: 91 Resp: 184920

Ion Ratio Lower Upper

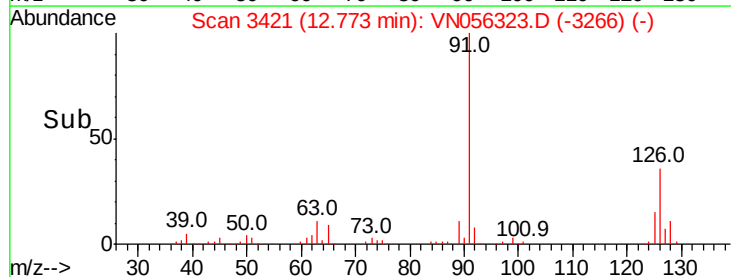
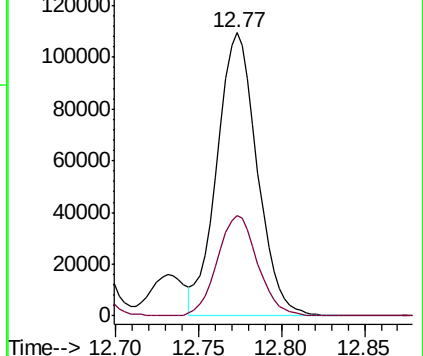
91 100

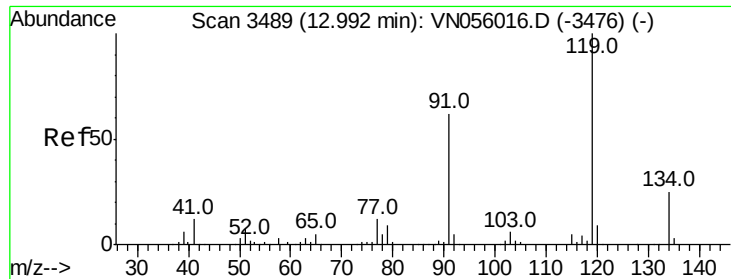
126 35.4 0.0 71.8



Abundance Ion 91.00 (90.70 to 91.70): VN056016.D (-3412) (-)

Ion 126.00 (125.70 to 126.70): VN056016.D (-3412) (-)





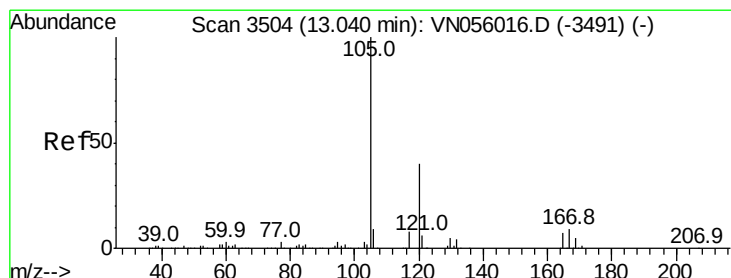
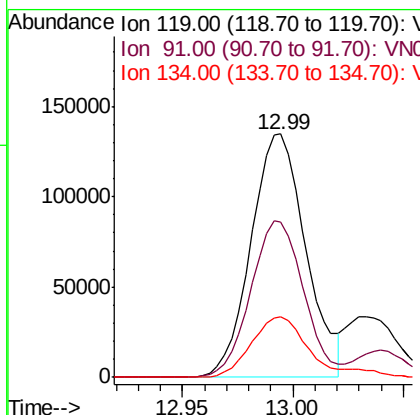
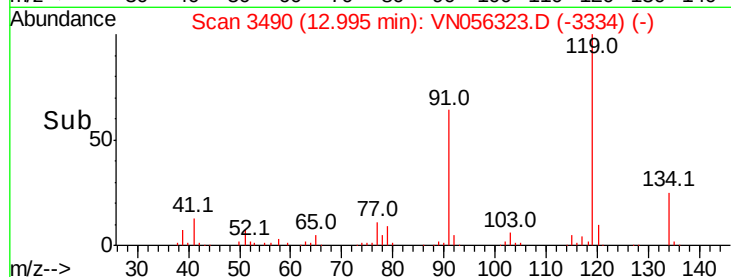
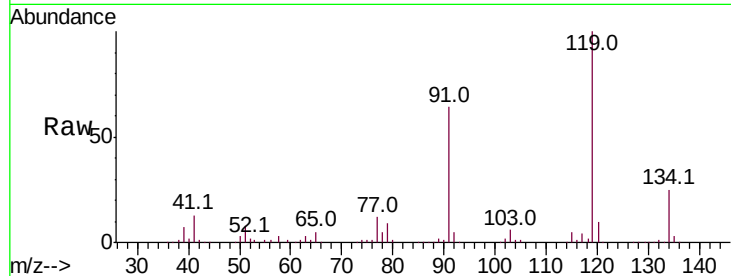
#79
 tert-butylbenzene
 Concen: 20.332 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	232121		
91	62.0	0.0	122.8	
134	24.5	0.0	50.2	

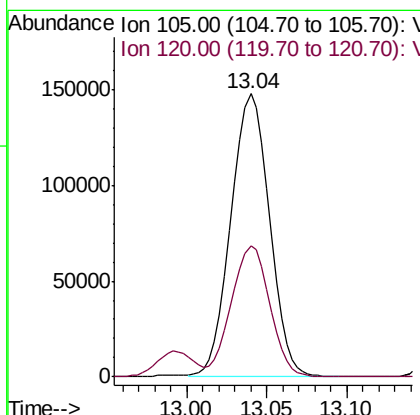
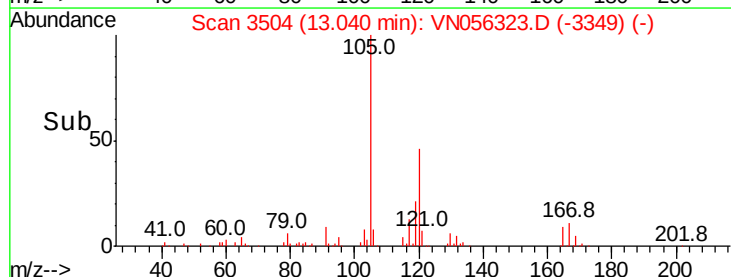
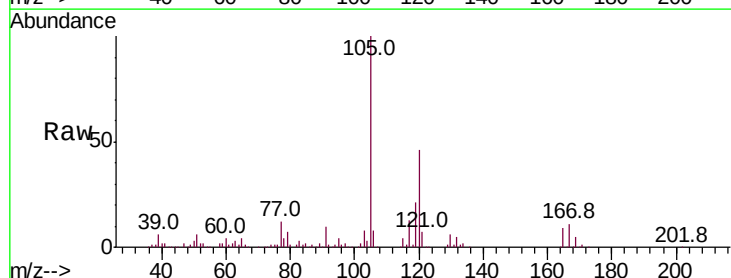
Manual Integrations
 APPROVED

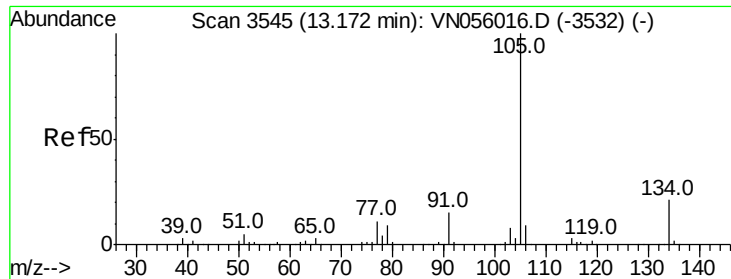
MMDadoda
 6/17/2019 9:45:22 AM



#80
 1,2,4-Trimethylbenzene
 Concen: 19.453 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	243847		
120	46.1	0.0	93.4	





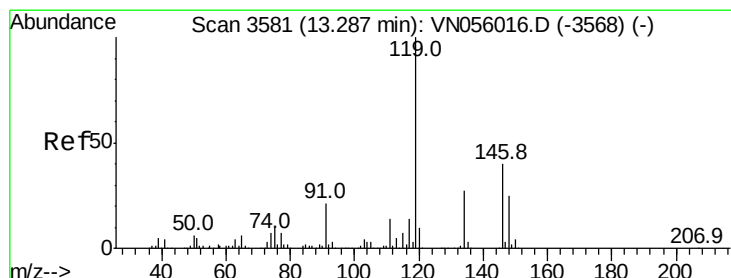
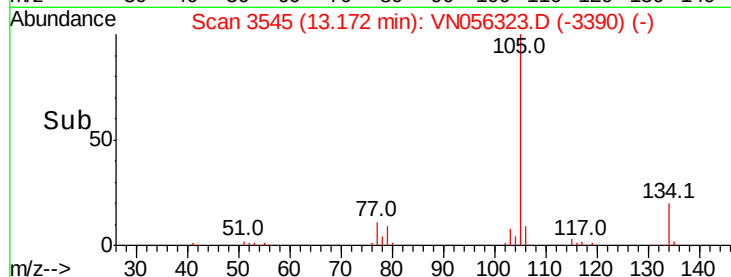
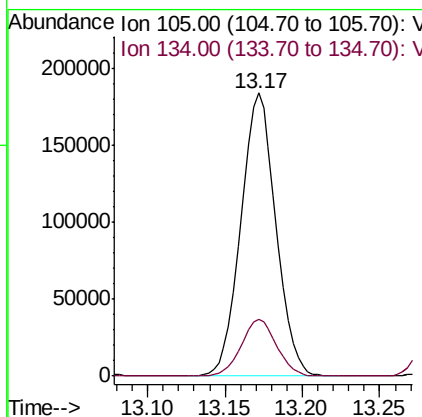
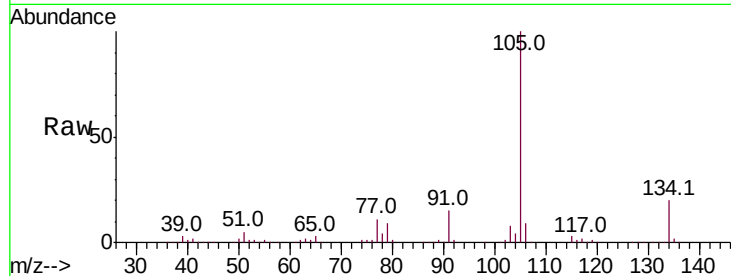
#81
 sec-Butylbenzene
 Concen: 20.028 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
105	100	289237		
134	20.2	0.0	41.8	

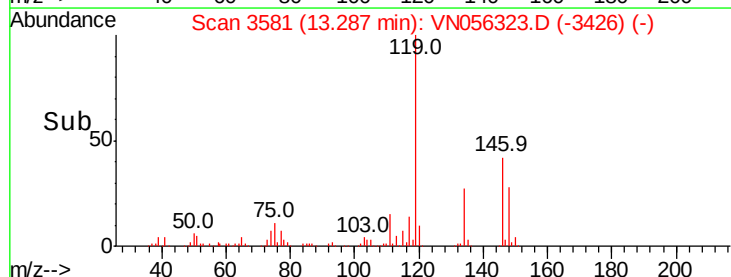
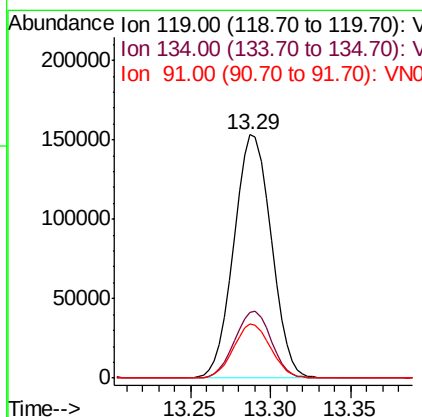
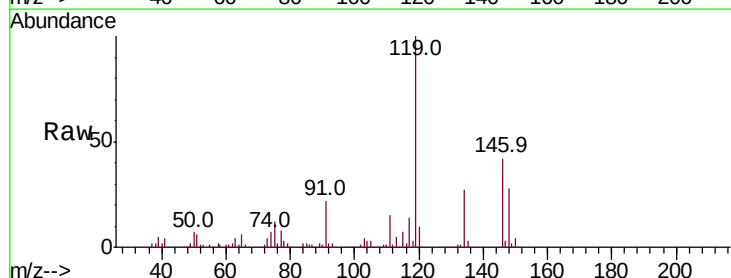
Manual Integrations
 APPROVED

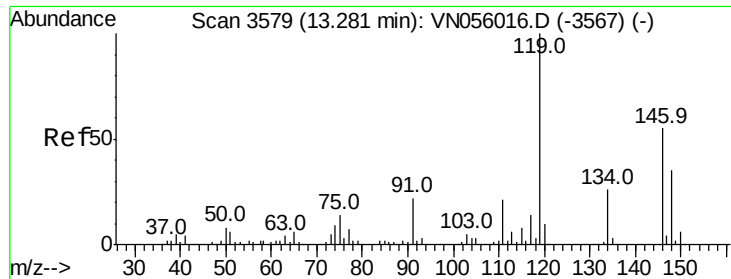
MMDadoda
 6/17/2019 9:45:22 AM



#82
 p-Isopropyltoluene
 Concen: 18.727 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	244525		
134	27.0	0.0	53.4	
91	22.1	0.0	43.0	





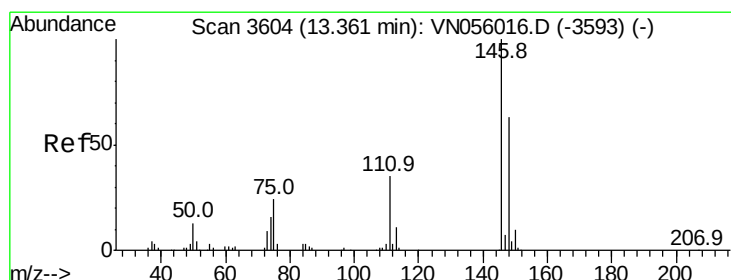
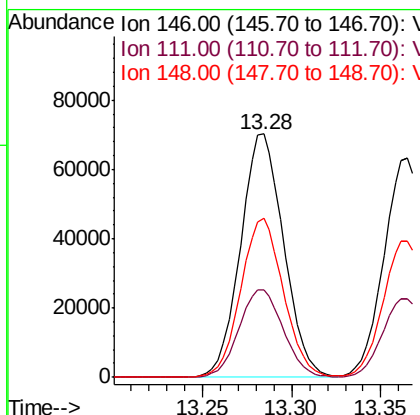
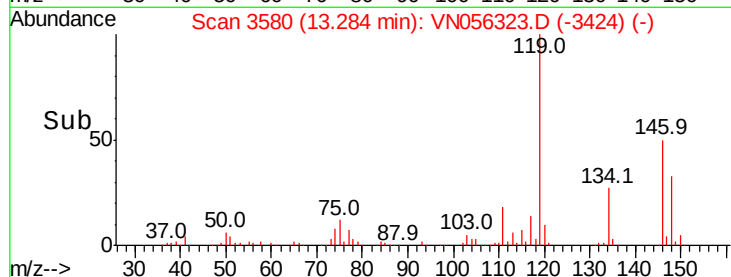
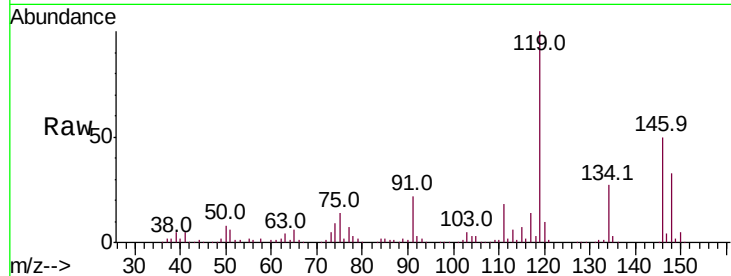
#83
 1,3-Dichlorobenzene
 Concen: 18.328 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.2	54.6
148	64.7	31.9	95.9

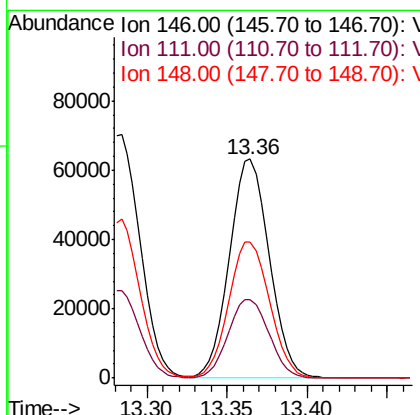
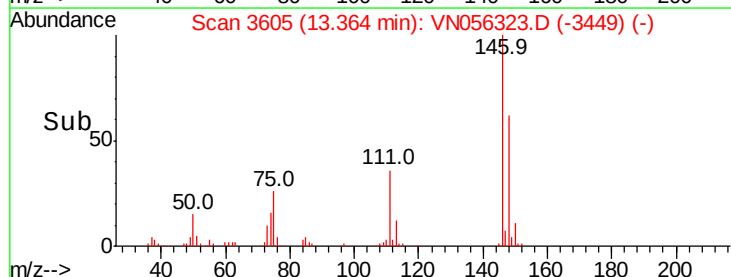
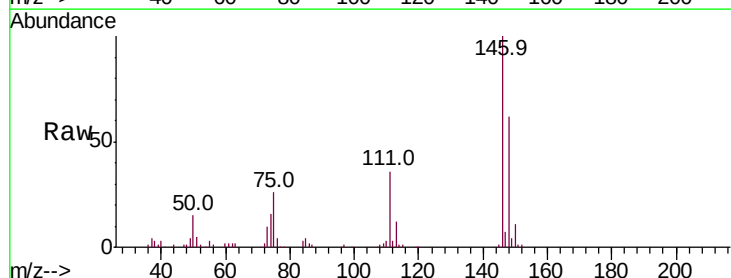
Manual Integrations
 APPROVED

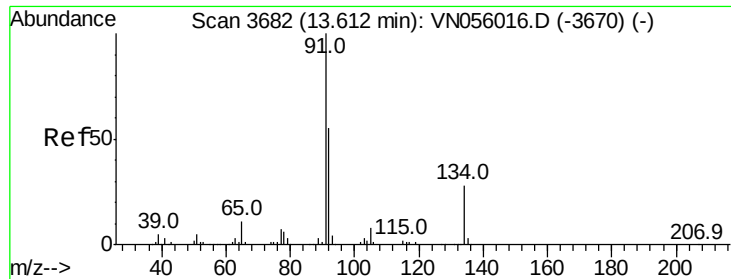
MMDadoda
 6/17/2019 9:45:22 AM



#84
 1,4-Dichlorobenzene
 Concen: 17.443 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.7	17.6	52.9
148	63.8	32.1	96.3





#85

n-Butylbenzene

Concen: 16.551 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

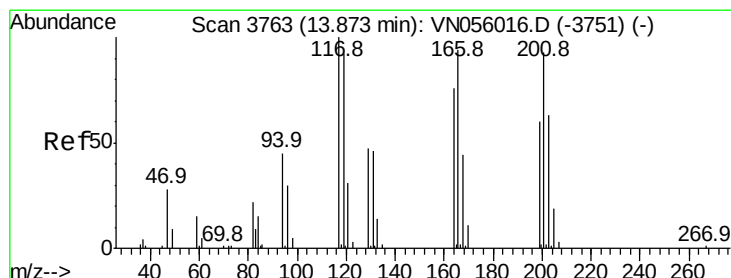
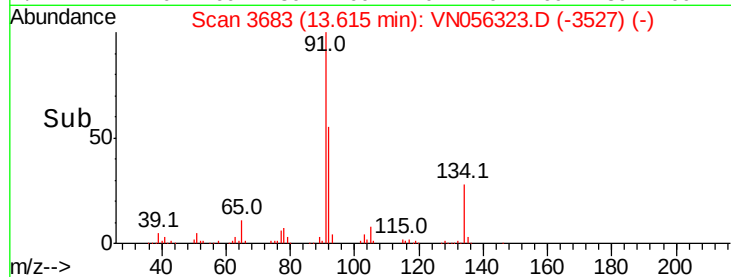
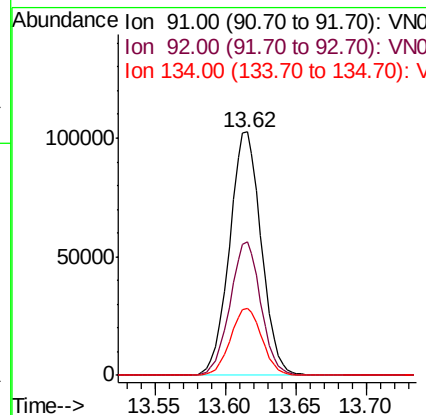
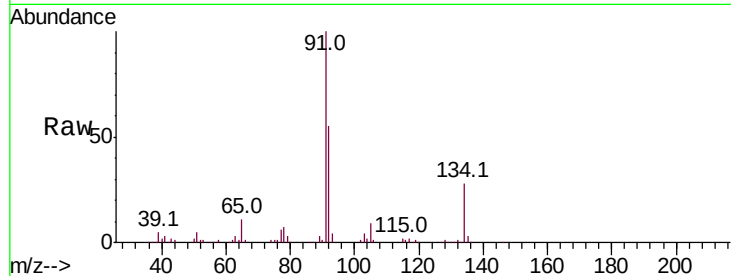
ClientSampleId :

VSTDCCC020EC

Tot Ion:	91	Resp:	161289
Ion Ratio	Lower	Upper	
91	100		
92	53.2	0.0	107.2
134	27.3	0.0	55.8

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM



#86

Hexachloroethane

Concen: 21.694 ug/l

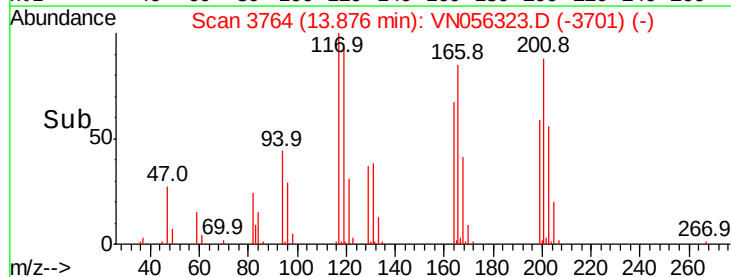
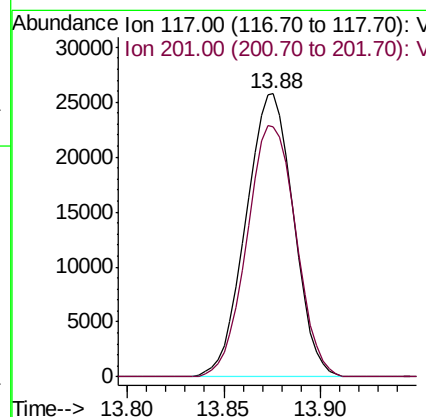
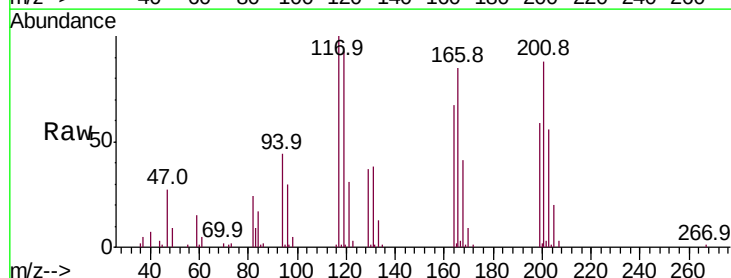
RT: 13.88 min Scan# 3764

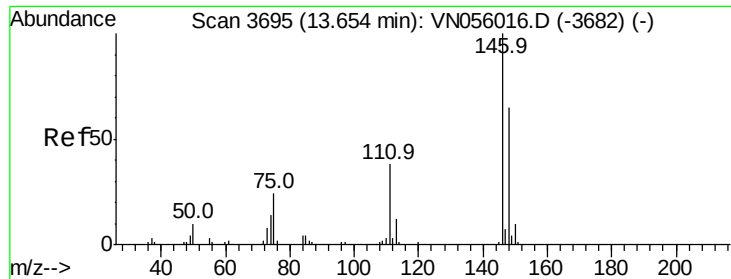
Delta R.T. 0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Tgt Ion:	117	Resp:	44160
Ion Ratio	Lower	Upper	
117	100		
201	91.3	48.1	144.4





#87

1,2-Dichlorobenzene

Concen: 18.493 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN056323.D

Acq: 14 Jun 2019 19:37

Instrument :

MSVOA_N

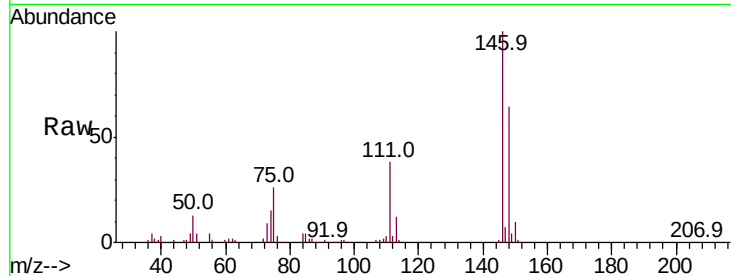
ClientSampleId :

VSTDCCC020EC

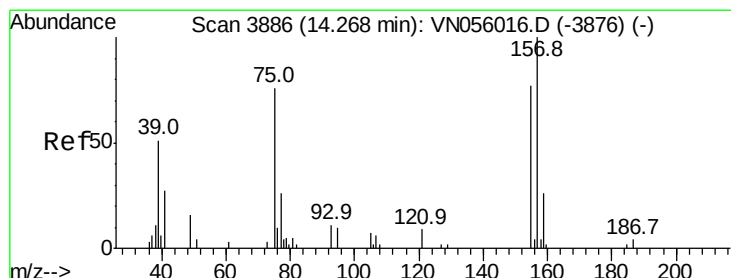
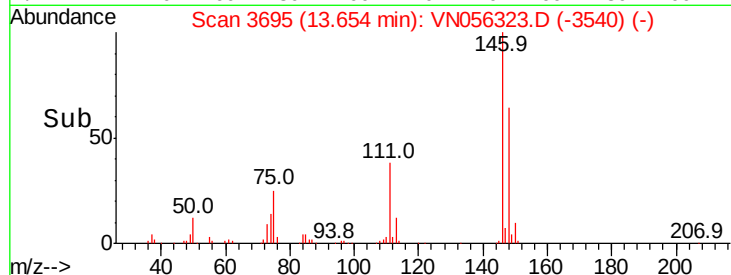
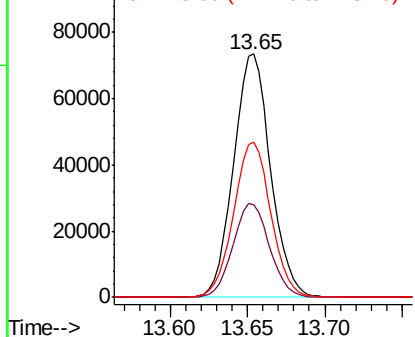
Tot Ion:	146	Resp:	121805
Ion Ratio	Lower	Upper	
146	100		
111	38.2	19.3	57.9
148	64.2	32.6	97.8

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 20.266 ug/l

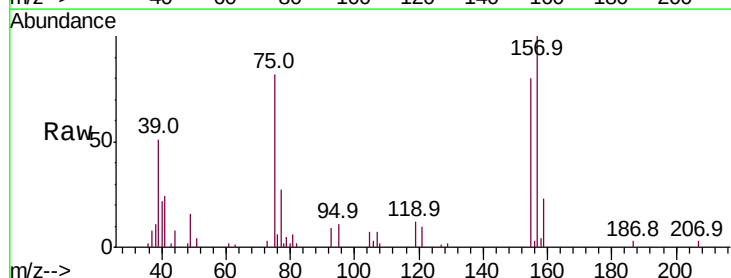
RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

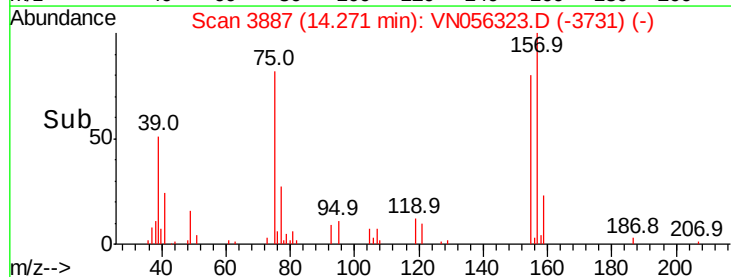
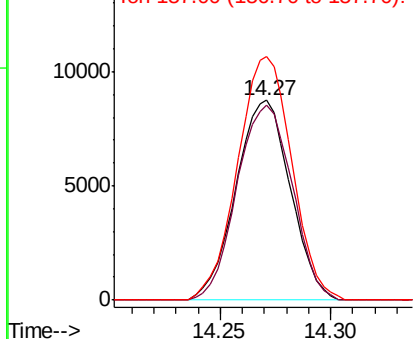
Lab File: VN056323.D

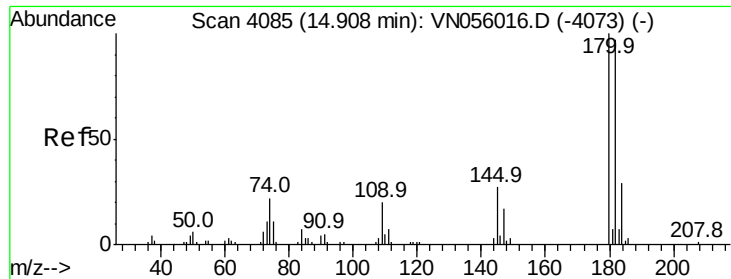
Acq: 14 Jun 2019 19:37

Tgt Ion:	75	Resp:	15025
Ion Ratio	Lower	Upper	
75	100		
155	98.6	82.5	123.7
157	121.3	105.1	157.7



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 155.00 (154.70 to 155.70): V
Ion 157.00 (156.70 to 157.70): V





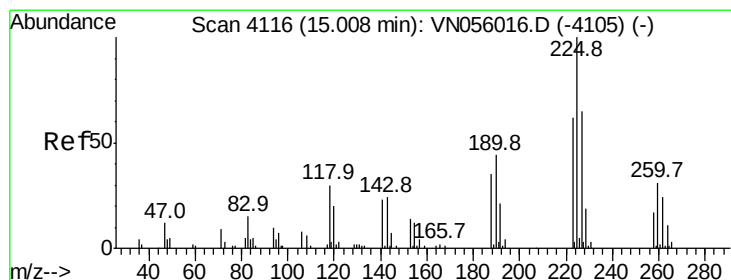
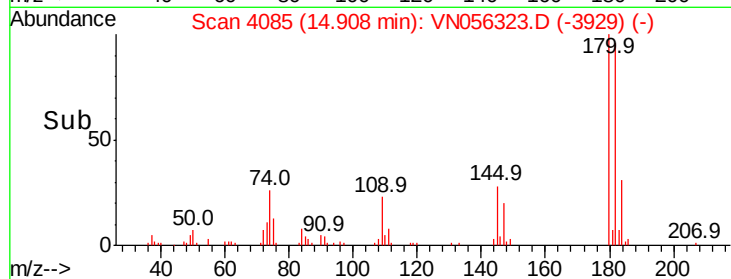
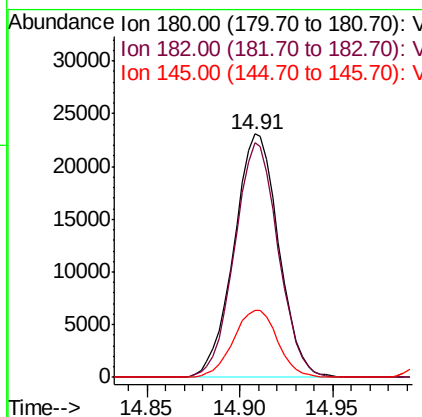
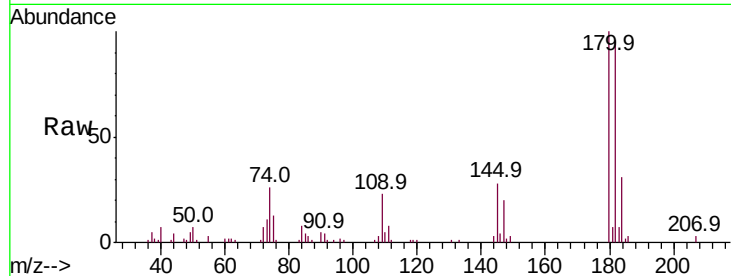
#89
 1,2,4-Trichlorobenzene
 Concen: 16.903 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.0	75.0	112.6
145	27.3	22.1	33.1

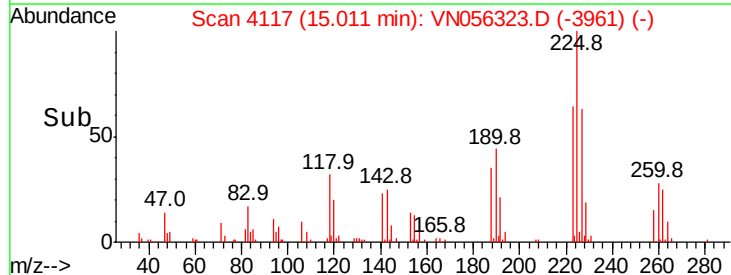
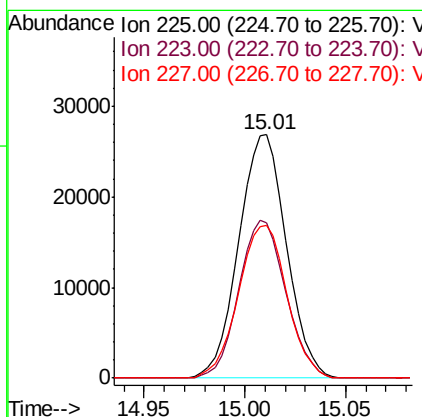
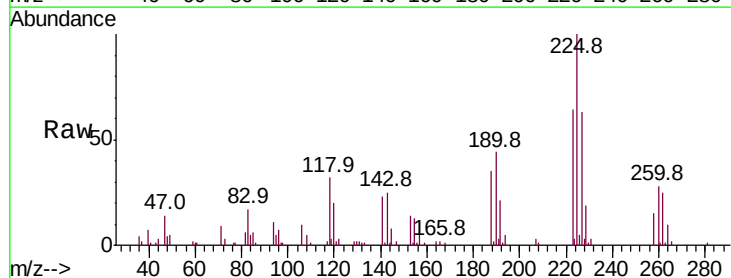
Manual Integrations
 APPROVED

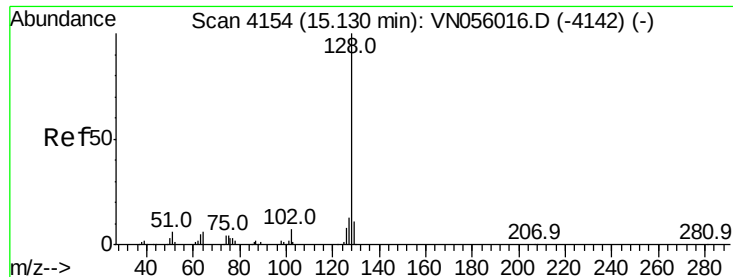
MMDadoda
 6/17/2019 9:45:22 AM



#90
 Hexachlorobutadiene
 Concen: 18.512 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN056323.D
 Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.7	0.0	125.6
227	63.7	0.0	128.6





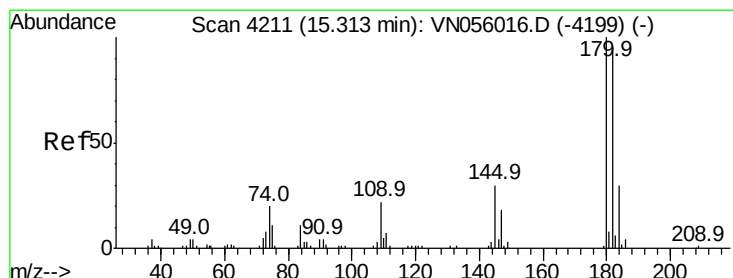
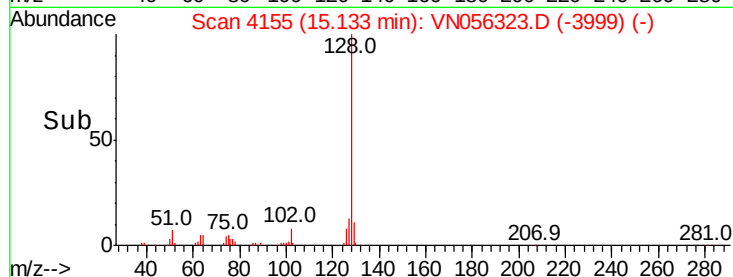
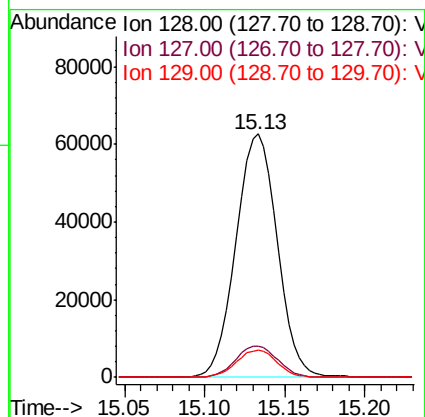
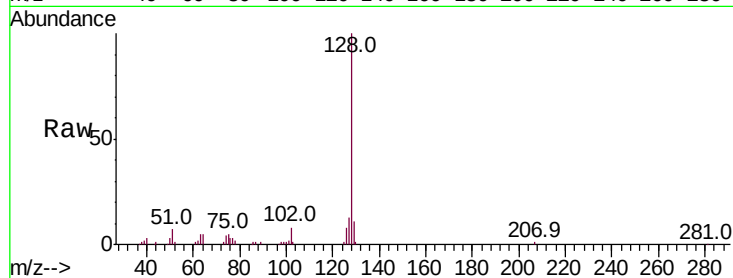
#91
Naphthalene
Concen: 12.625 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM



#92
1,2,3-Trichlorobenzene
Concen: 13.959 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN056323.D
Acq: 14 Jun 2019 19:37

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	0.0	193.4
145	31.3	0.0	59.8

