

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055781.D
 Acq On : 24 May 2019 8:56
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 10:34:59 AM

Quant Time: May 24 13:02:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	56392	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	311263	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	271638	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	108402	29.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.03%
60) 4-Bromofluorobenzene	12.40	95	124727	29.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.40%
63) Toluene-d8	10.09	98	370316	29.83	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	49028	19.829	ug/l 97
3) Chloromethane	2.06	50	65787	18.706	ug/l 95
4) Vinyl Chloride	2.19	62	71076	19.802	ug/l 99
5) Bromomethane	2.52	94	45474	21.638	ug/l 97
6) Chloroethane	2.68	64	43818	20.897	ug/l 96
7) Trichlorofluoromethane	3.00	101	97029	21.547	ug/l 97
8) Diethyl Ether	3.40	74	41920	21.176	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	3.74	101	62170	21.850	ug/l 98
10) 1,1-Dichloroethene	3.72	96	61835	20.774	ug/l 94
11) Methyl Iodide	3.94	142	86855	20.455	ug/l 99
12) Methyl Acetate	4.32	43	66341	18.224	ug/l 100
13) Acrolein	3.60	56	47147	93.208	ug/l 99
14) Acrylonitrile	4.99	53	154185	92.899	ug/l 99
15) Acetone	3.82	58	63791	123.758	ug/l 96
16) Carbon Disulfide	4.04	76	166828	19.548	ug/l 100
17) Allyl chloride	4.31	41	100849	18.812	ug/l 98
18) Methylene Chloride	4.54	84	69231	20.308	ug/l 95
19) trans-1,2-Dichloroethene	5.03	96	65010	20.303	ug/l 97
20) Diisopropyl ether	5.95	45	195978	18.845	ug/l 97
21) 1,1-Dichloroethane	5.84	63	114919	19.552	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	76326	20.439	ug/l 96
23) tert-Butyl Alcohol	4.81	59	64312	88.231	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	198727	19.676	ug/l # 75
25) Chloroform	7.37	83	118678	20.444	ug/l 99
26) Cyclohexane	7.64	56	108936	20.091	ug/l # 95
29) 1,1-Dichloropropene	7.79	75	87566	20.096	ug/l 97
30) 2-Butanone	6.84	43	232181	99.970	ug/l 98
31) 2,2-Dichloropropane	6.82	77	102232	20.161	ug/l 99
32) 1,1,1-Trichloroethane	7.56	97	104555	20.244	ug/l 99
33) Carbon Tetrachloride	7.77	117	91697	19.847	ug/l 97
34) Benzene	8.04	78	269120	20.005	ug/l 98
35) Methacrylonitrile	7.17	41	35141	16.393	ug/l 99
36) 1,2-Dichloroethane	8.12	62	88428	20.114	ug/l 100
37) Trichloroethene	8.83	130	78749	20.980	ug/l 100
38) Methylcyclohexane	9.08	83	113287	20.520	ug/l 97
39) 1,2-Dichloropropane	9.12	63	70050	19.370	ug/l 96
40) Dibromomethane	9.21	93	46545	19.931	ug/l 100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055781.D
 Acq On : 24 May 2019 8:56
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 10:34:59 AM

Quant Time: May 24 13:02:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

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

41) Bromodichloromethane	9.40	83	91852	19.191	ug/l	98
42) Vinyl Acetate	5.89	43	835969	92.707	ug/l	98
43) Ethyl Acetate	6.93	43	84938	18.606	ug/l #	100
44) Isopropyl Acetate	8.17	43	134730	17.822	ug/l	90
45) 1,4-Dioxane	9.20	88	28957	407.164	ug/l	93
46) Methyl methacrylate	9.20	41	64161	18.191	ug/l	98
47) n-amyl Acetate	12.07	43	114143	18.255	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	98039	18.556	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	110752	19.152	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	67784	19.938	ug/l	99
51) Ethyl methacrylate	10.43	69	103112	18.817	ug/l	100
52) 1,3-Dichloropropane	10.71	76	109919	19.615	ug/l	100
53) Dibromochloromethane	10.90	129	77435	19.281	ug/l	98
54) 1,2-Dibromoethane	11.00	107	70764	20.115	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	195114	91.513	ug/l	99
56) Bromoform	12.13	173	59410	18.034	ug/l #	97
58) 4-Methyl-2-Pentanone	9.98	43	418093	92.975	ug/l	98
59) 2-Hexanone	10.75	43	305588	95.055	ug/l	99
61) Tetrachloroethene	10.63	164	80770	21.965	ug/l	96
62) Toluene	10.15	91	298332	20.423	ug/l	99
64) Chlorobenzene	11.43	112	184336	20.803	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	71202	19.943	ug/l	98
66) Ethyl Benzene	11.51	91	330586	20.713	ug/l	100
67) m/p-Xylenes	11.62	106	256600	42.322	ug/l	99
68) o-Xylene	11.95	106	123717	20.620	ug/l	99
69) Styrene	11.96	104	203079	20.516	ug/l	99
70) Isopropylbenzene	12.25	105	327544	20.865	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	94071	19.472	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	81811m	19.676	ug/l	
73) Bromobenzene	12.52	156	86682	20.872	ug/l	95
74) n-propylbenzene	12.59	91	353931	20.905	ug/l	99
75) 2-Chlorotoluene	12.67	91	217658	21.046	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	278015	21.426	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	28196	17.072	ug/l	95
78) 4-Chlorotoluene	12.77	91	203368	20.749	ug/l	99
79) tert-butylbenzene	12.99	119	246151	21.578	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	273544	21.236	ug/l	100
81) sec-Butylbenzene	13.17	105	311763	21.510	ug/l	100
82) p-Isopropyltoluene	13.29	119	286317	21.465	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	138912	21.338	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	129258	20.848	ug/l	100
85) n-Butylbenzene	13.61	91	215774	20.793	ug/l	99
86) Hexachloroethane	13.87	117	51084	19.471	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	138571	21.138	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16350	17.856	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	67295	19.018	ug/l	100
90) Hexachlorobutadiene	15.01	225	58030	21.979	ug/l	97
91) Naphthalene	15.13	128	179668	18.583	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	72035	19.478	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
Data File : VN055781.D
Acq On : 24 May 2019 8:56
Operator : JC/SP
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED

MMDadoda
5/28/2019 10:34:59 AM

Quant Time: May 24 13:02:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 23 05:54:54 2019
Response via : Initial Calibration

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

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

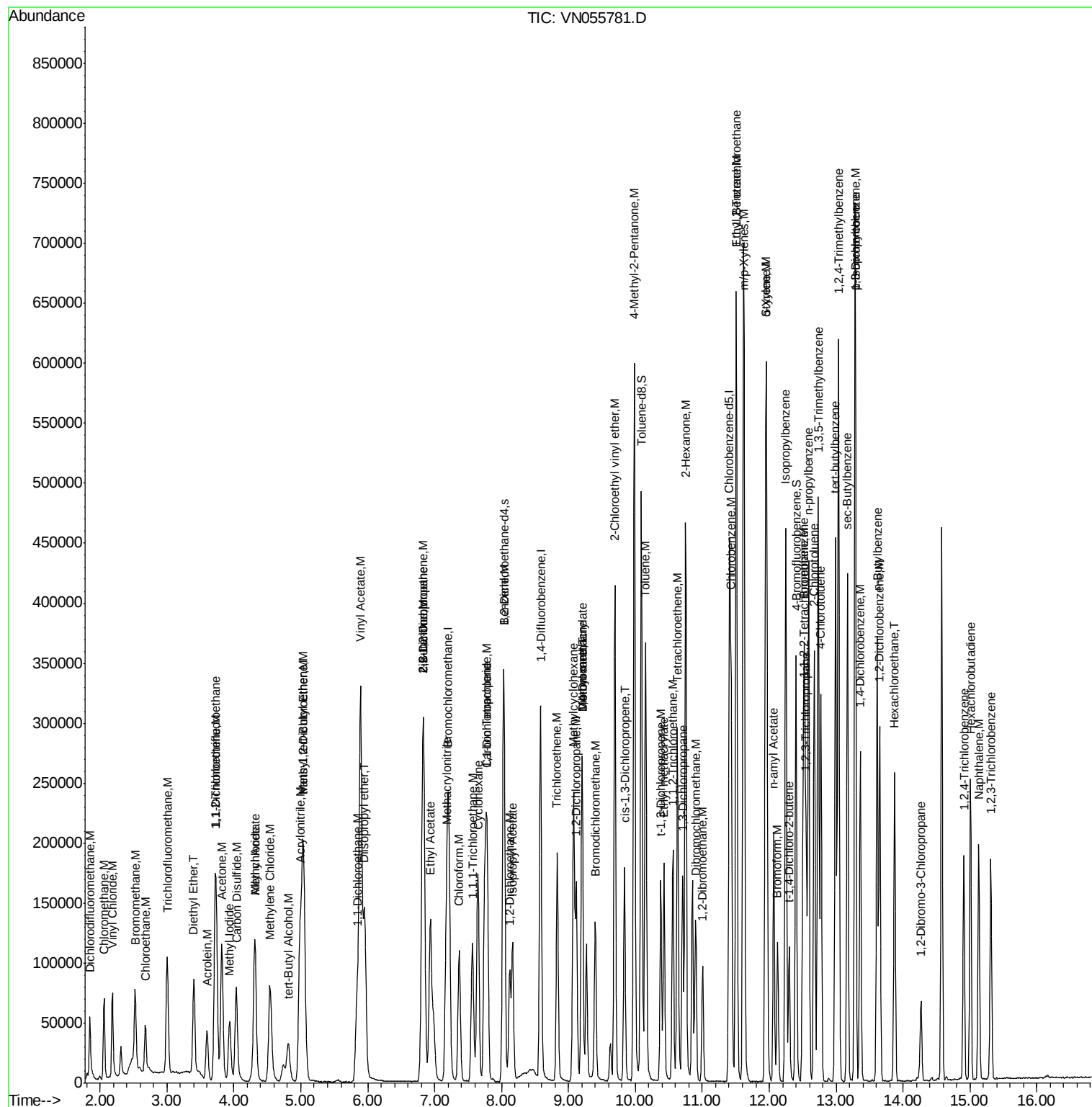
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055781.D
 Acq On : 24 May 2019 8:56
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

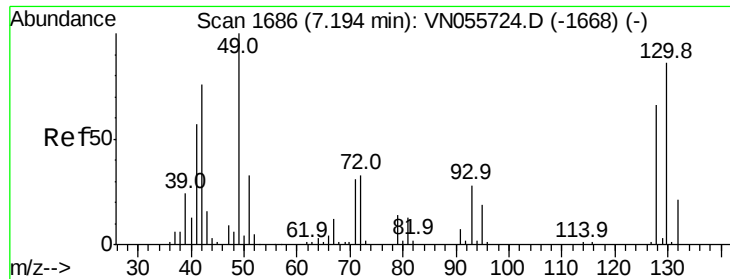
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 10:34:59 AM

Quant Time: May 24 13:02:58 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

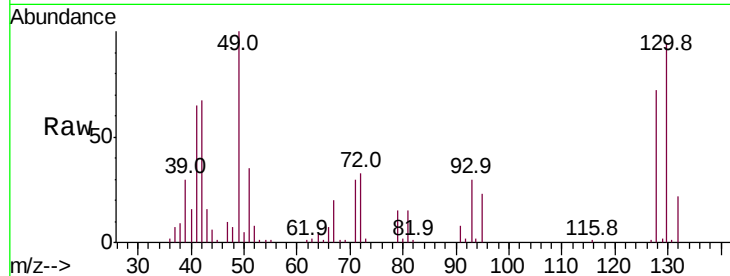
ClientSampleId :

VSTDCCC020

Tot Ion:	128	Resp:	56392
Ion	Ratio	Lower	Upper
128	100		
49	141.9	0.0	383.2
130	132.0	0.0	326.3

Manual Integrations
APPROVED

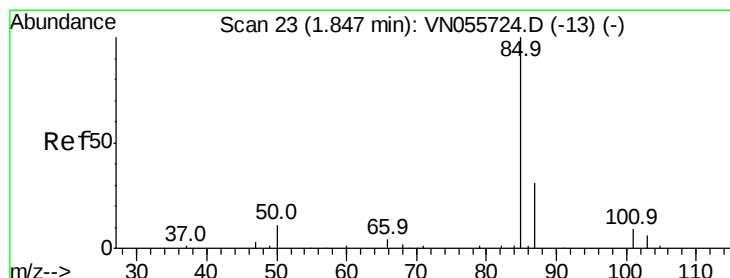
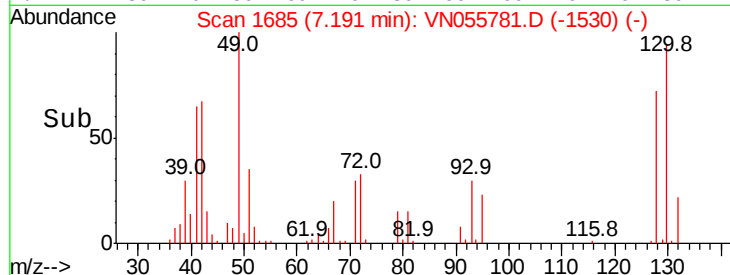
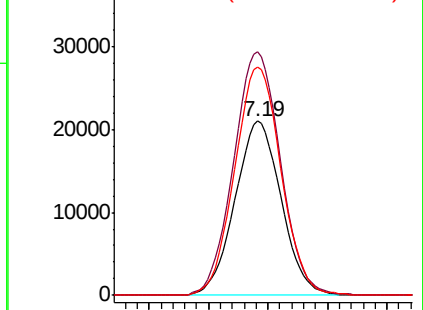
MMDadoda
5/28/2019 10:34:59 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 19.829 ug/l

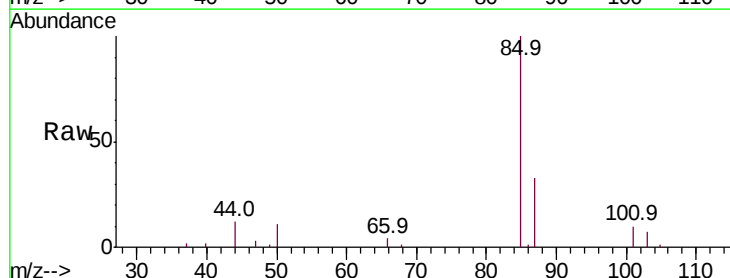
RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055781.D

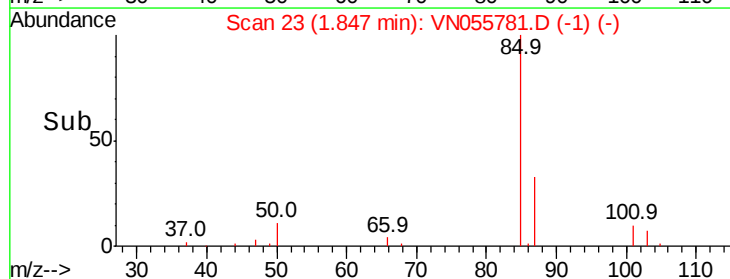
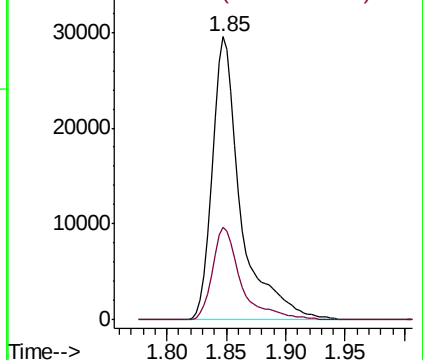
Acq: 24 May 2019 8:56

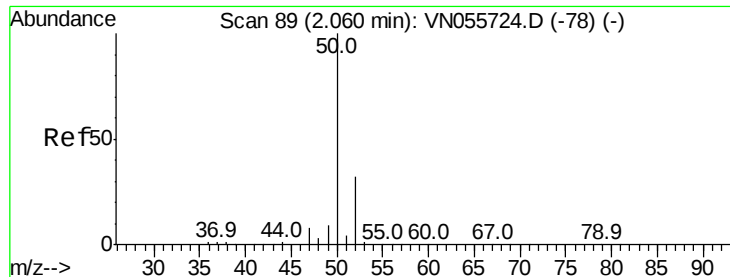
Tgt Ion:	85	Resp:	49028
Ion	Ratio	Lower	Upper
85	100		
87	32.8	15.7	47.0



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 18.706 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 50 Resp: 65787

Ion Ratio Lower Upper

50 100

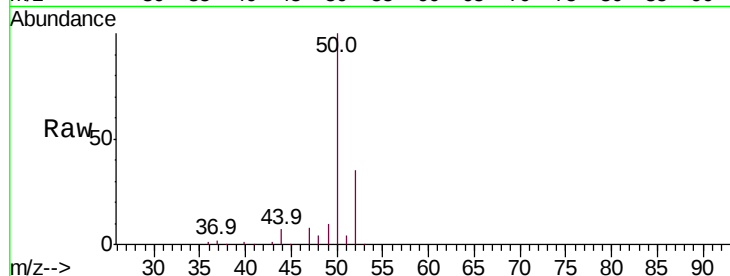
52 34.7 25.4 38.2

Manual Integrations

APPROVED

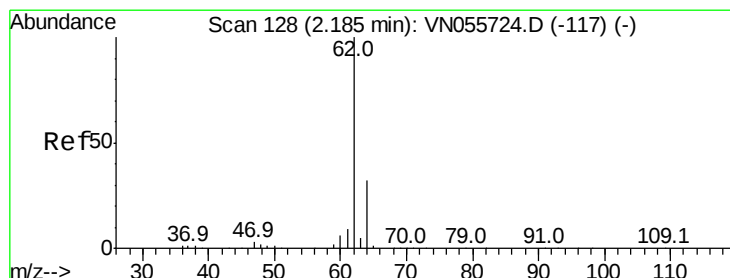
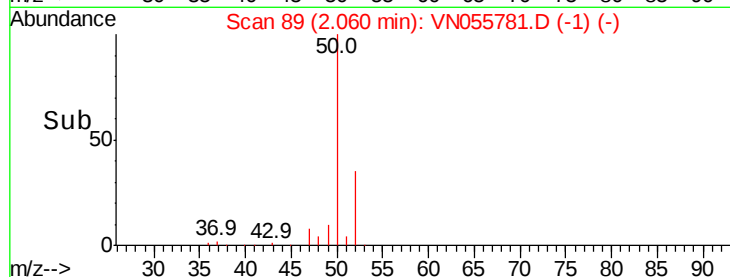
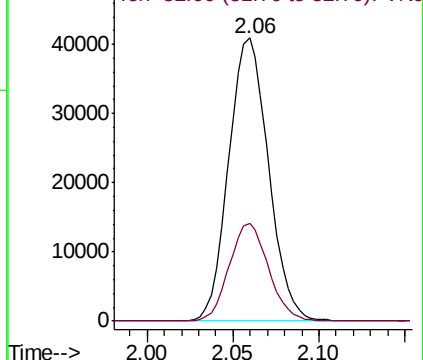
MMDadoda

5/28/2019 10:34:59 AM



Abundance Ion 50.00 (49.70 to 50.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



#4

Vinyl Chloride

Concen: 19.802 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055781.D

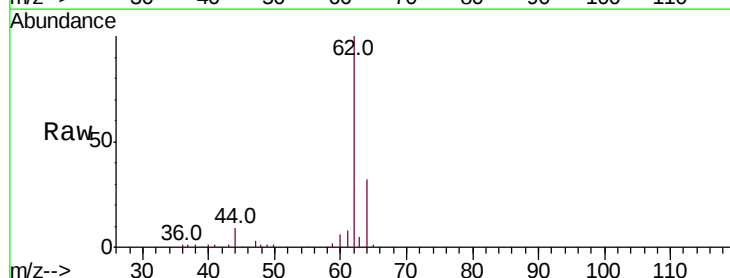
Acq: 24 May 2019 8:56

Tgt Ion: 62 Resp: 71076

Ion Ratio Lower Upper

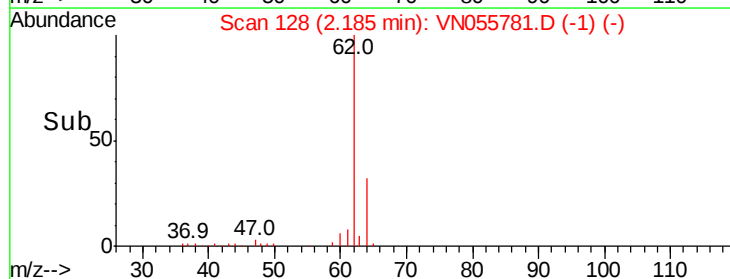
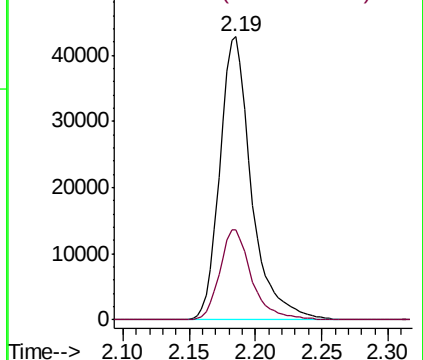
62 100

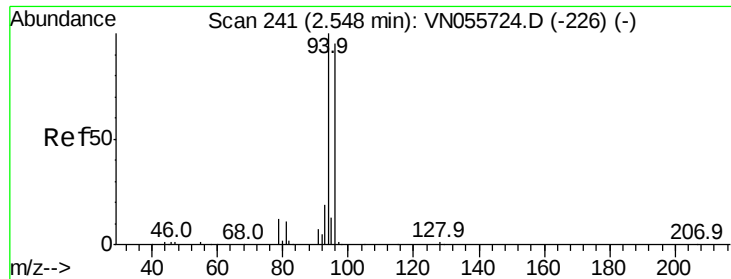
64 31.8 25.7 38.5



Abundance Ion 62.00 (61.70 to 62.70): VNC

Ion 64.00 (63.70 to 64.70): VNC





#5

Bromomethane

Concen: 21.638 ug/l

RT: 2.52 min Scan# 233

Delta R.T. -0.03 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 94 Resp: 45474

Ion Ratio Lower Upper

94 100

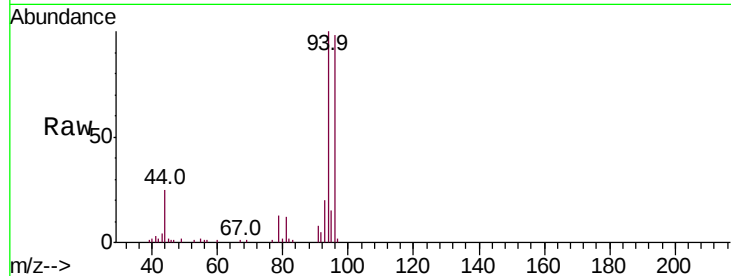
96 97.6 75.8 113.8

Manual Integrations

APPROVED

MMDadoda

5/28/2019 10:34:59 AM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

25000

20000

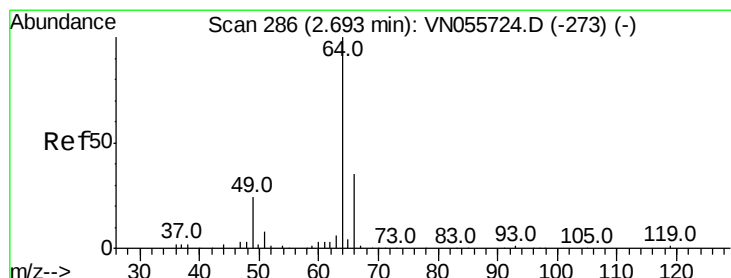
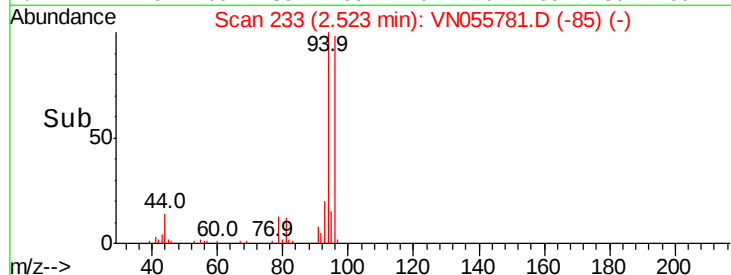
15000

10000

5000

0

Time--> 2.45 2.50 2.55 2.60



#6

Chloroethane

Concen: 20.897 ug/l

RT: 2.68 min Scan# 281

Delta R.T. -0.02 min

Lab File: VN055781.D

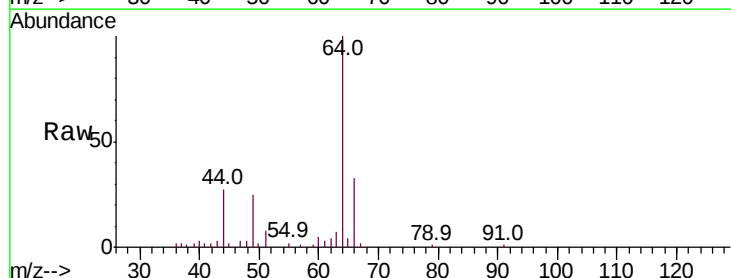
Acq: 24 May 2019 8:56

Tgt Ion: 64 Resp: 43818

Ion Ratio Lower Upper

64 100

66 32.5 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0

20000

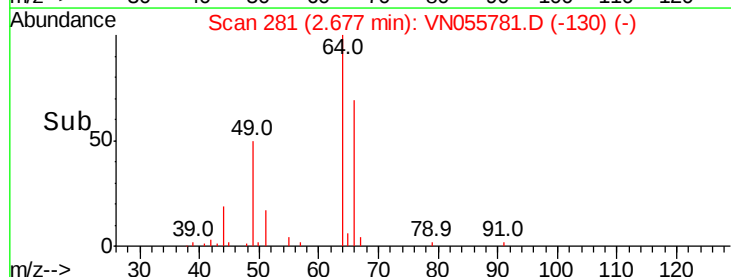
15000

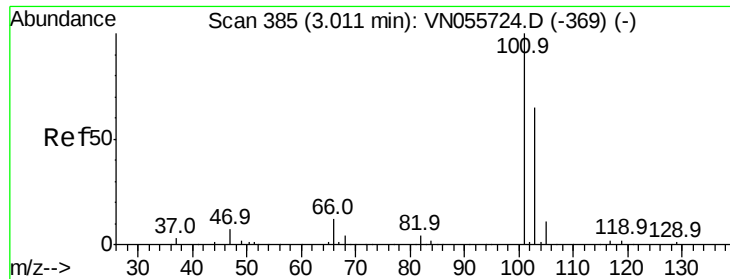
10000

5000

0

Time--> 2.60 2.70 2.80





#7

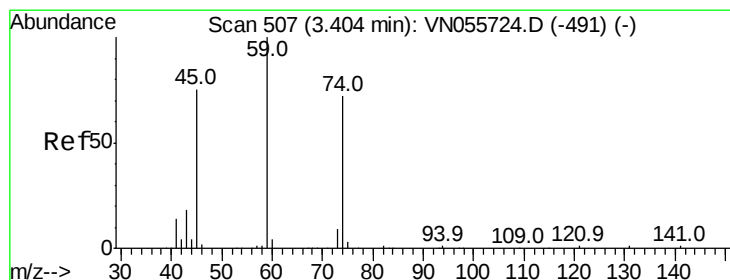
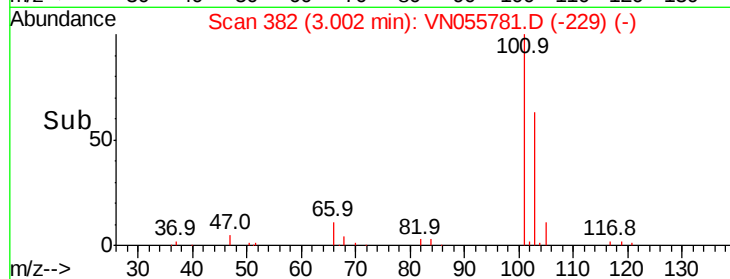
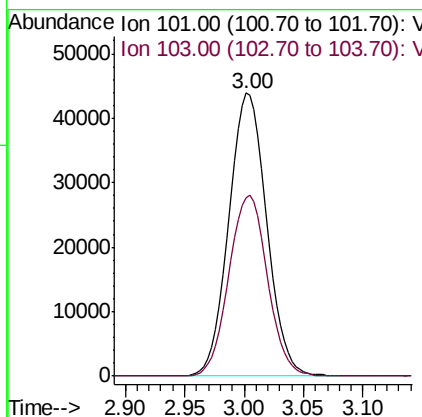
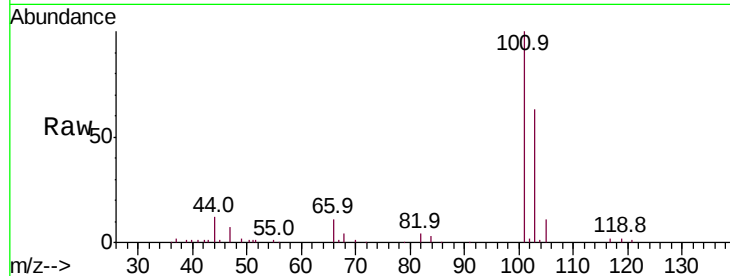
Trichlorofluoromethane
Concen: 21.547 ug/l
RT: 3.00 min Scan# 382
Delta R.T. -0.01 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.1	52.6	78.8

Manual Integrations
APPROVED

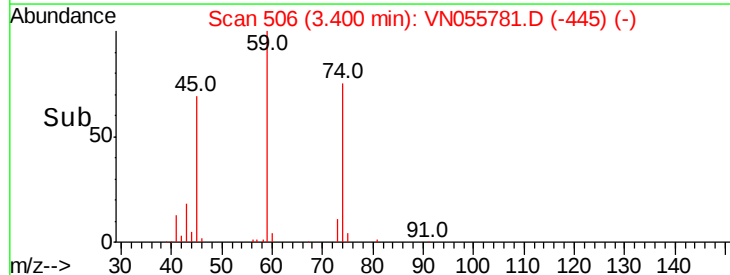
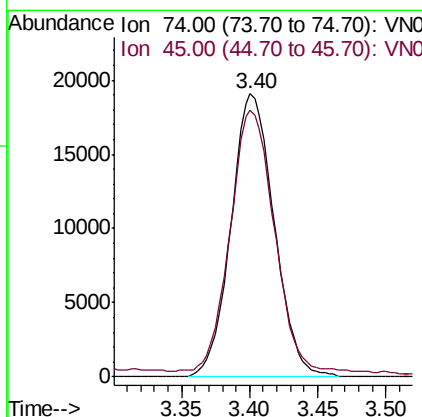
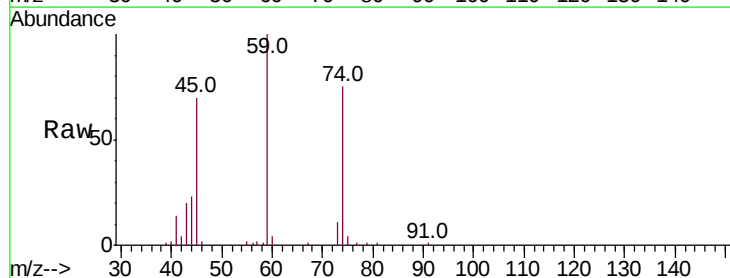
MMDadoda
5/28/2019 10:34:59 AM

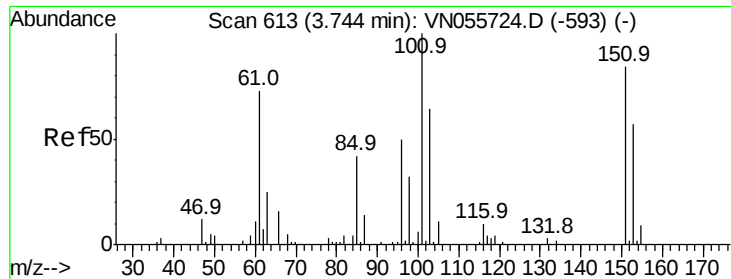


#8

Diethyl Ether
Concen: 21.176 ug/l
RT: 3.40 min Scan# 506
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.5	20.4	184.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.850 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.01 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

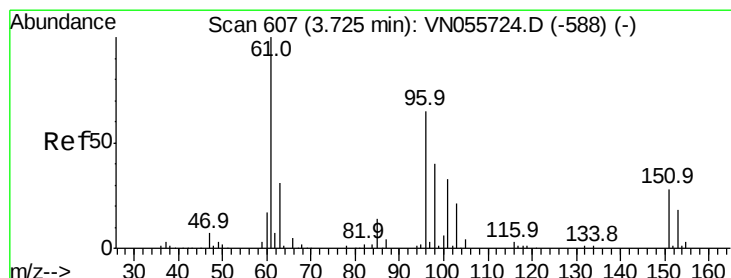
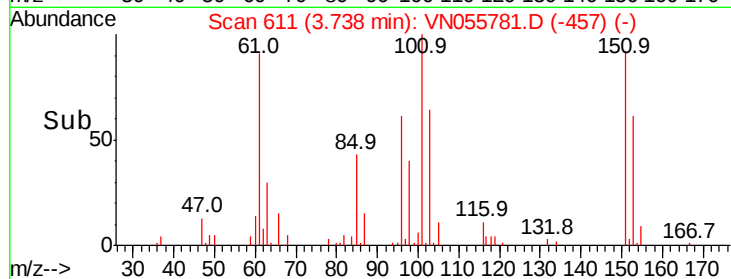
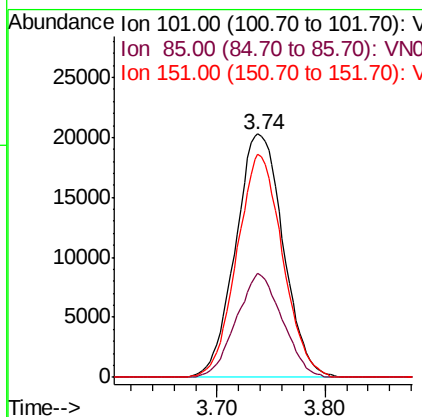
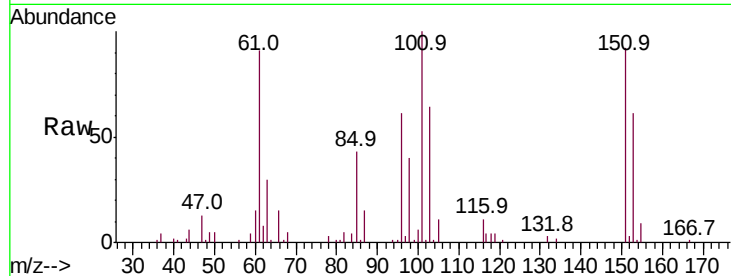
ClientSampleId :

VSTDCCC020

Tot Ion:	101	Resp:	62170
Ion Ratio	Lower	Upper	
101	100		
85	41.1	0.0	86.6
151	88.0	0.0	172.2

Manual Integrations
APPROVED

MMDadoda
5/28/2019 10:34:59 AM



#10

1,1-Dichloroethene

Concen: 20.774 ug/l

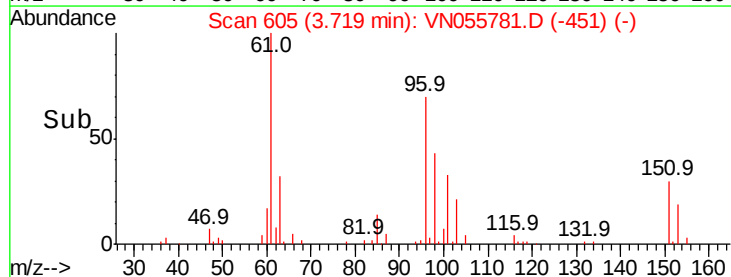
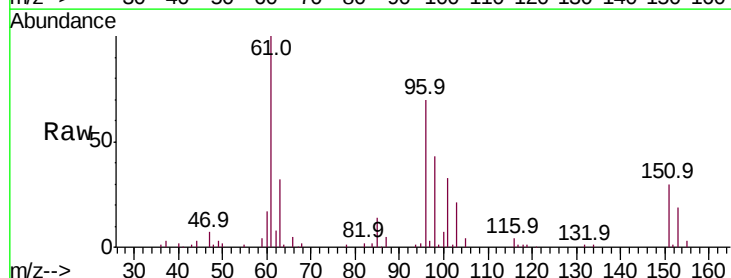
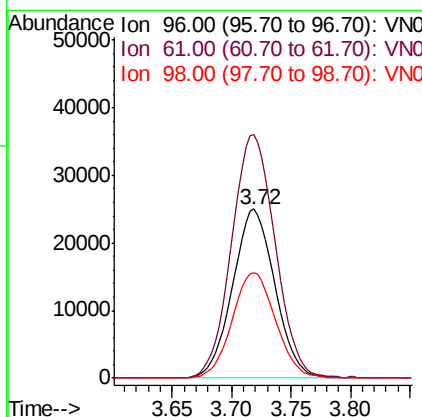
RT: 3.72 min Scan# 605

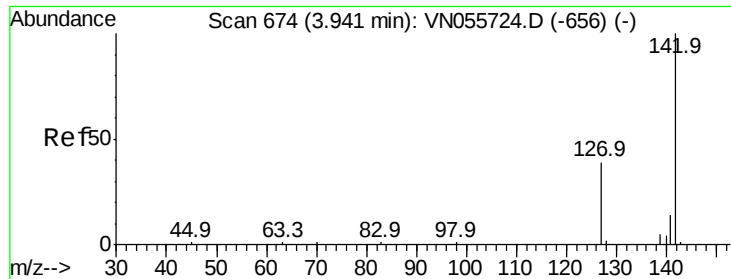
Delta R.T. -0.01 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Tgt Ion:	96	Resp:	61835
Ion Ratio	Lower	Upper	
96	100		
61	143.9	123.7	185.5
98	62.6	50.0	75.0





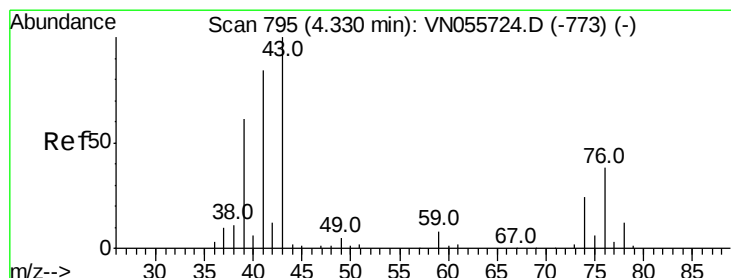
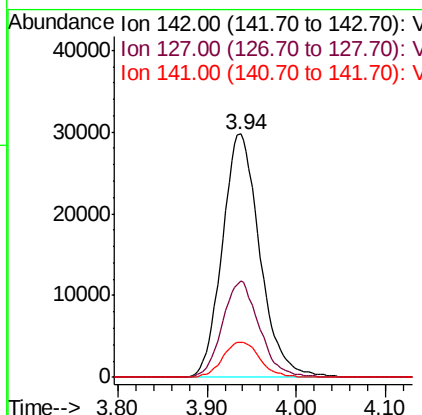
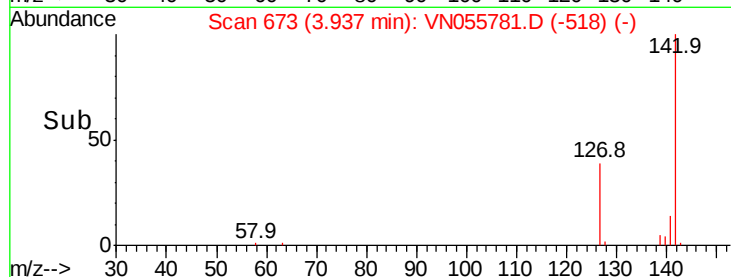
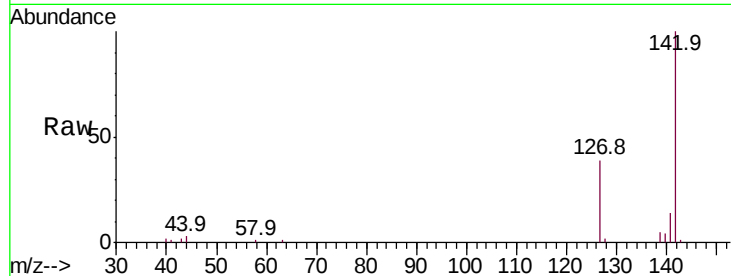
#11
Methyl Iodide
Concen: 20.455 ug/l
RT: 3.94 min Scan# 673
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Resp Lower	Upper
142	100		
127	39.4	19.6	58.7
141	14.4	6.9	20.6

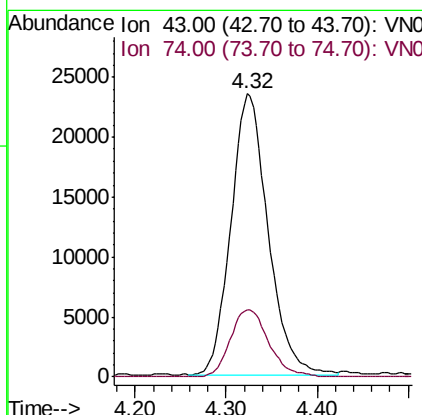
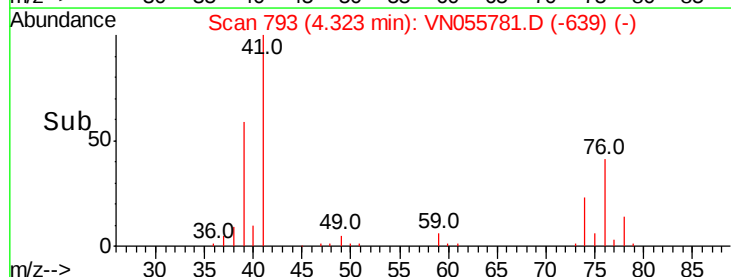
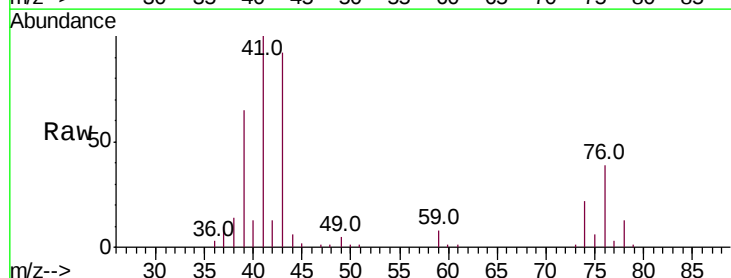
Manual Integrations
APPROVED

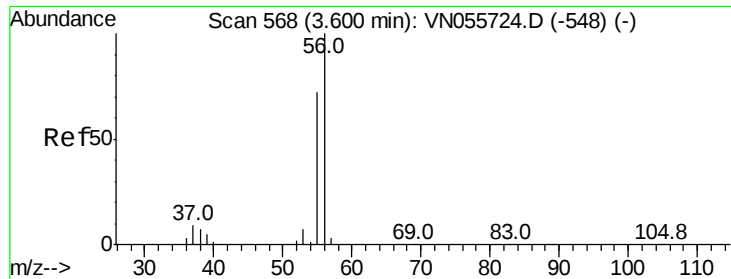
MMDadoda
5/28/2019 10:34:59 AM



#12
Methyl Acetate
Concen: 18.224 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.01 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
74	24.0	19.2	28.8





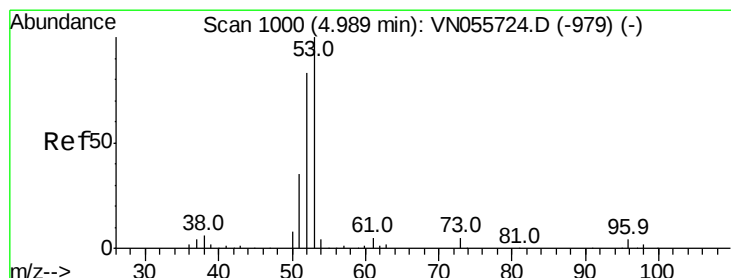
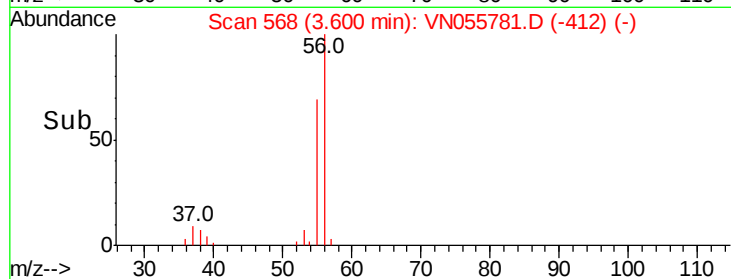
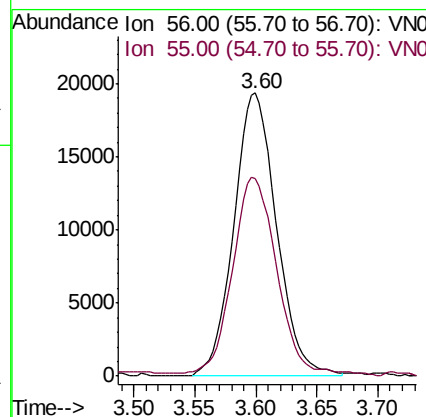
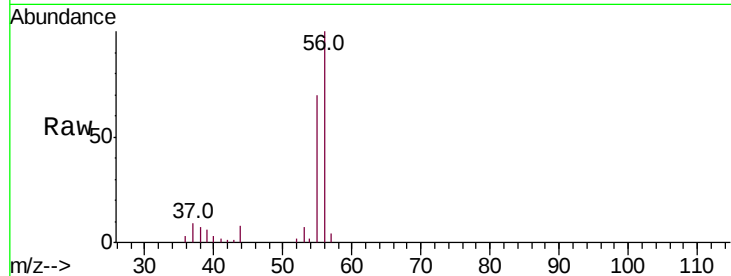
#13
Acrolein
Concen: 93.208 ug/l
RT: 3.60 min Scan# 568
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	56	Resp	47147
Ion	Ratio	Lower	Upper
56	100		
55	70.3	57.0	85.6

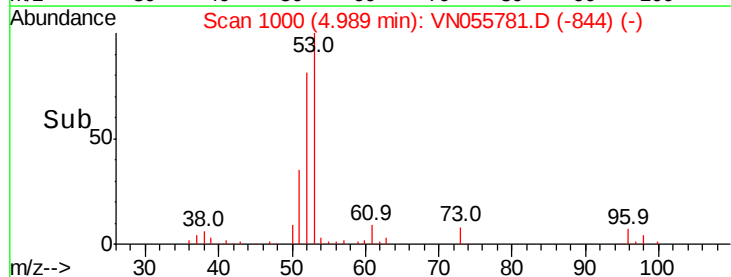
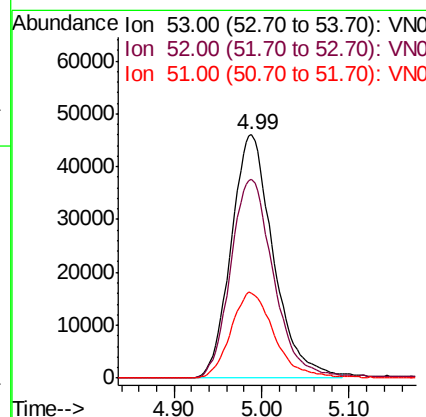
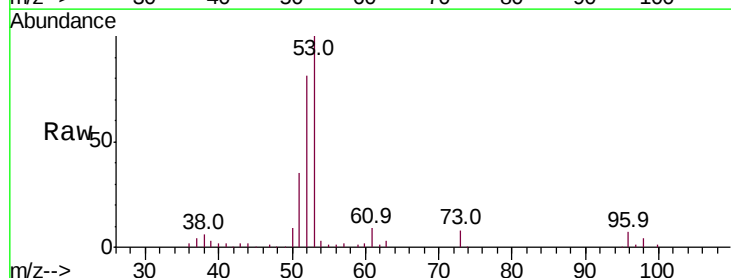
Manual Integrations
APPROVED

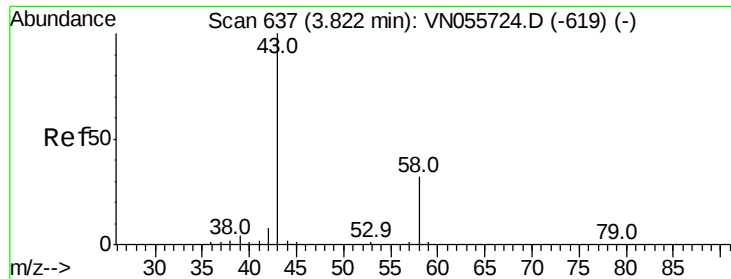
MMDadoda
5/28/2019 10:34:59 AM



#14
Acrylonitrile
Concen: 92.899 ug/l
RT: 4.99 min Scan# 1000
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion	53	Resp	154185
Ion	Ratio	Lower	Upper
53	100		
52	83.1	41.1	123.4
51	36.2	17.5	52.6





#15

Acetone

Concen: 123.758 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 58 Resp: 63791

Ion Ratio Lower Upper

58 100

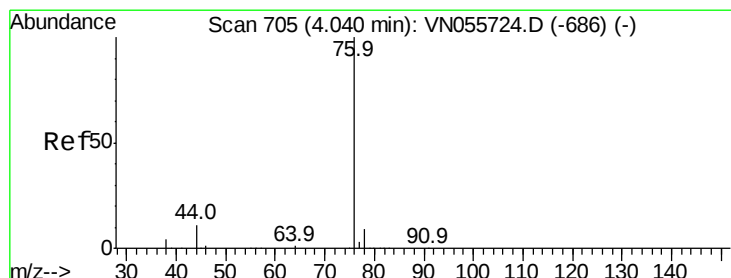
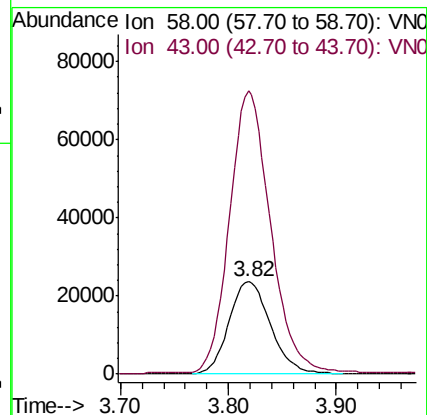
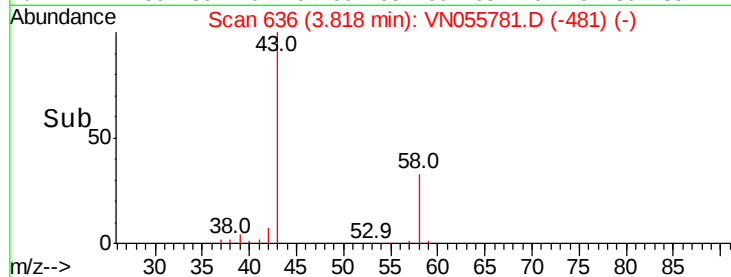
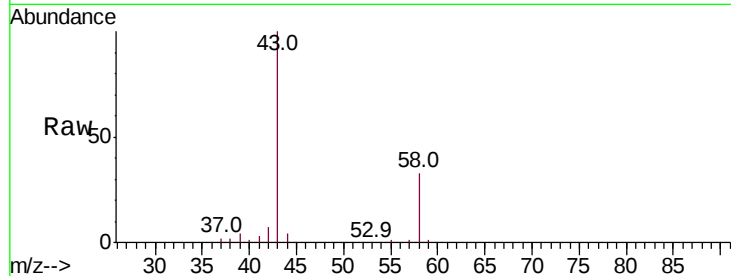
43 303.5 248.8 373.2

Manual Integrations

APPROVED

MMDadoda

5/28/2019 10:34:59 AM



#16

Carbon Disulfide

Concen: 19.548 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN055781.D

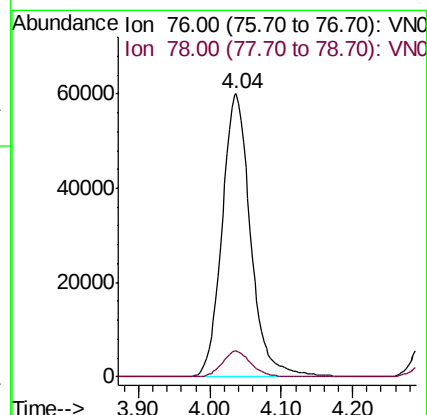
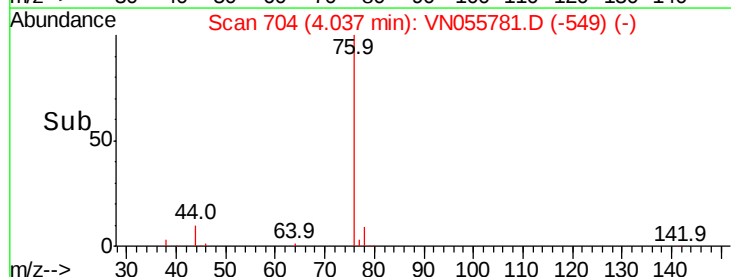
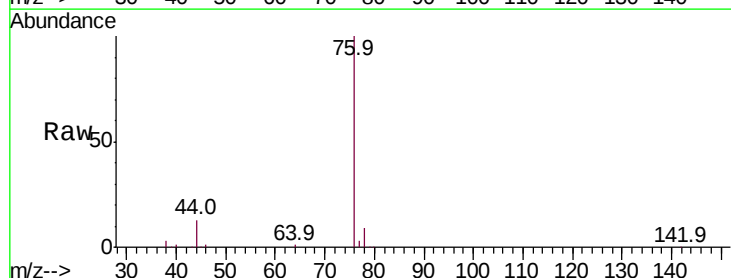
Acq: 24 May 2019 8:56

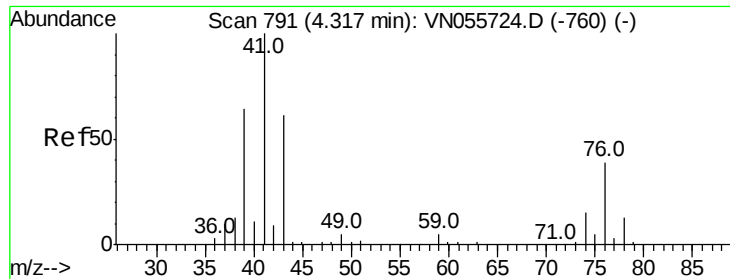
Tgt Ion: 76 Resp: 166828

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0





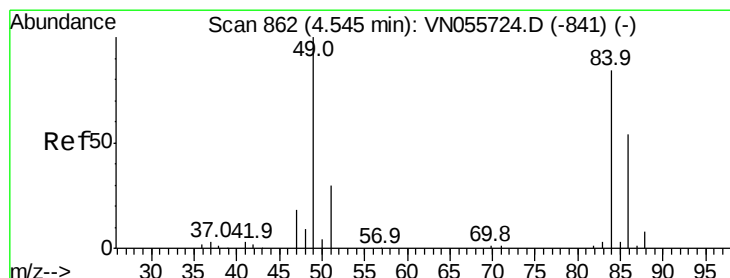
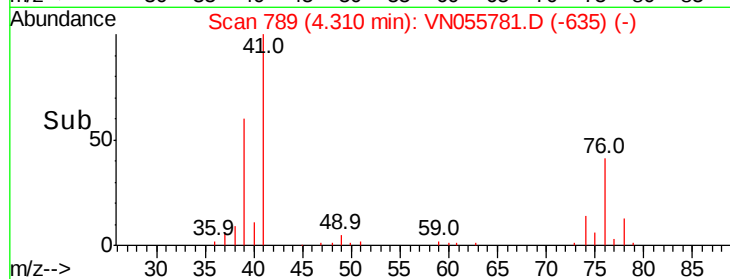
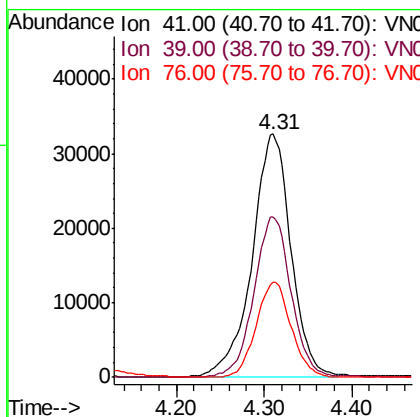
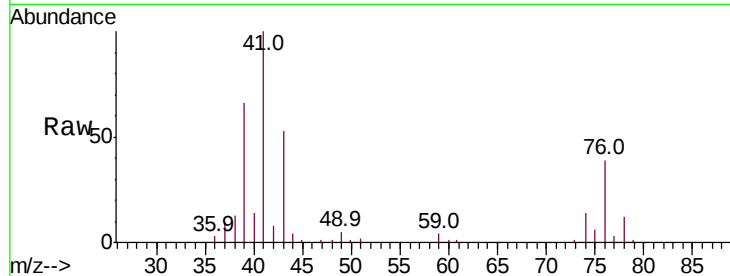
#17
Allvl chloride
Concen: 18.812 ug/l
RT: 4.31 min Scan# 789
Delta R.T. -0.01 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
39	66.0		31.8	95.3
76	38.9		19.3	57.9

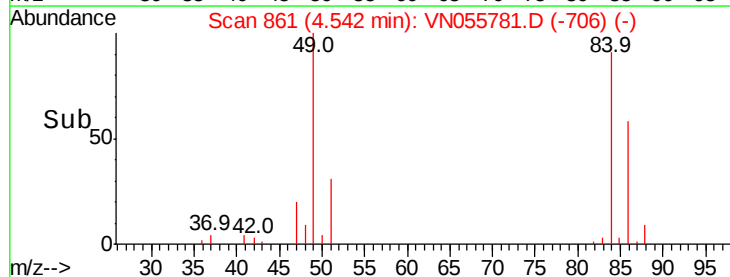
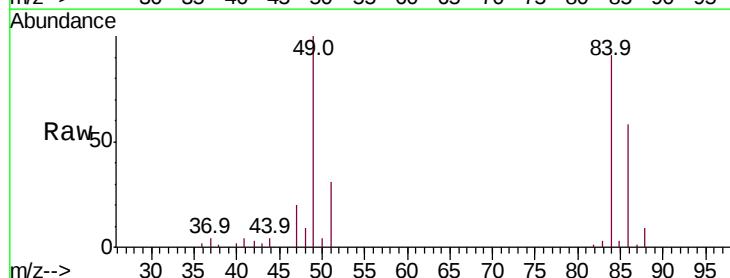
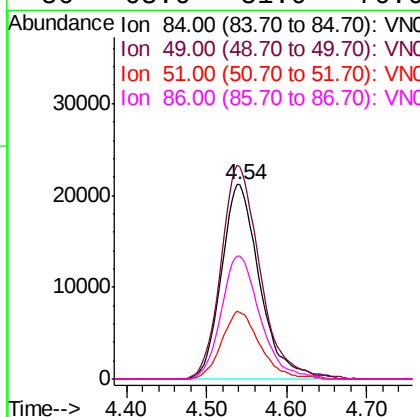
Manual Integrations
APPROVED

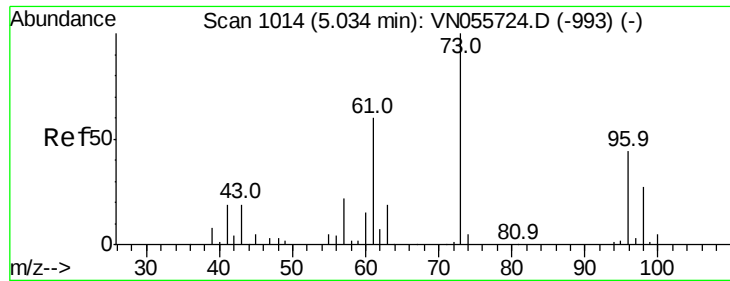
MMDadoda
5/28/2019 10:34:59 AM



#18
Methylene Chloride
Concen: 20.308 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Resp	Lower	Upper
84	100			
49	108.6		94.7	142.1
51	34.4		28.6	43.0
86	63.6		51.0	76.6





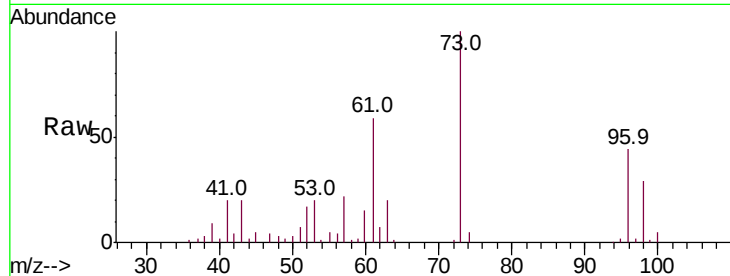
#19
trans-1,2-Dichloroethene
Concen: 20.303 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.4	108.5	162.7
98	65.0	49.4	74.2

Manual Integrations
APPROVED

MMDadoda
5/28/2019 10:34:59 AM

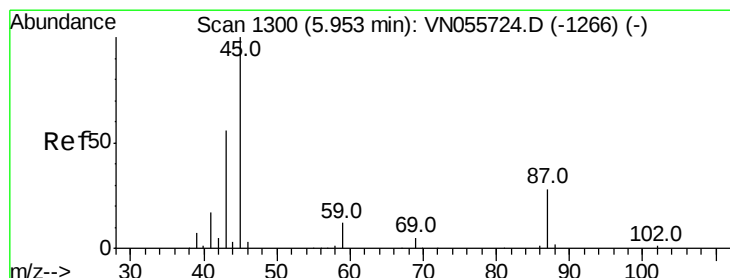
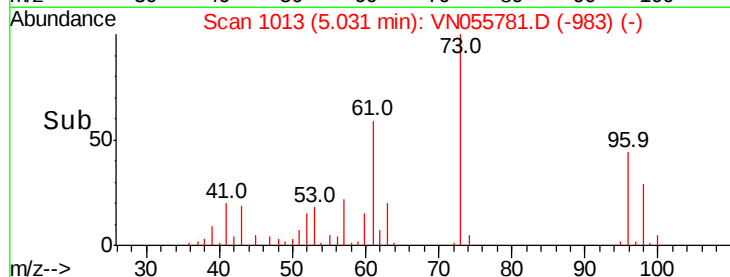
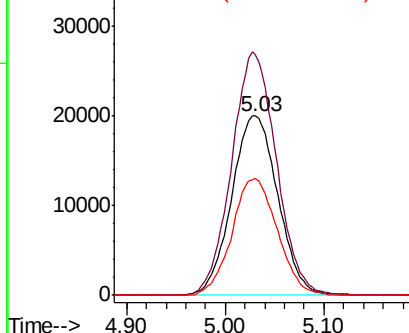


Abundance

Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO



#20
Diisopropyl ether
Concen: 18.845 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.8	48.6	73.0
87	29.5	22.6	34.0
59	11.5	9.4	14.2

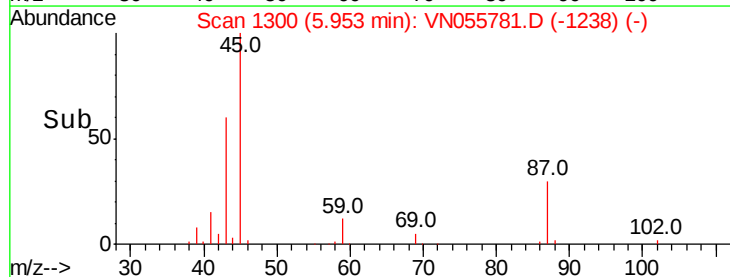
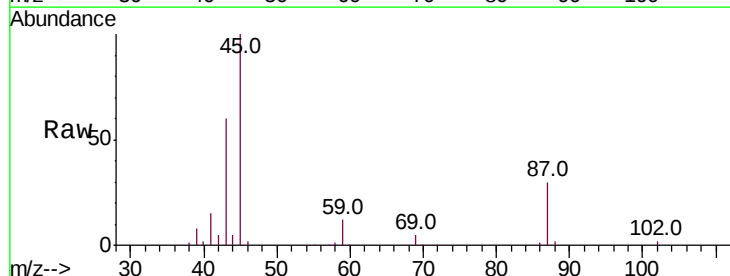
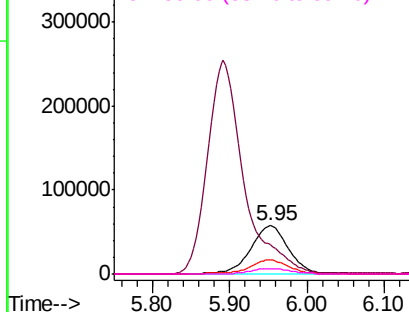
Abundance

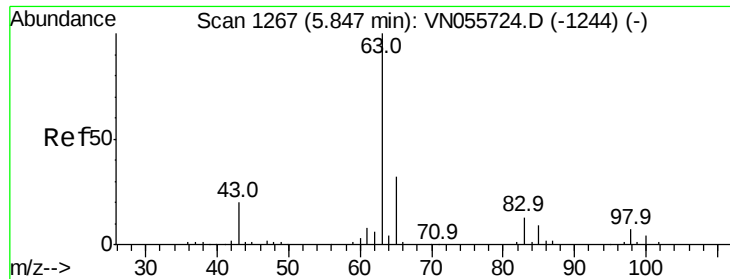
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#21

1,1-Dichloroethane

Concen: 19.552 ug/l

RT: 5.84 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

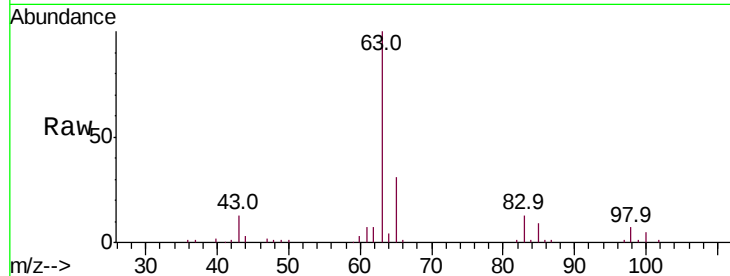
ClientSampleId :

VSTDCCC020

Tot Ion:	63	Resp:	114919
Ion Ratio	Lower	Upper	
63	100		
98	6.8	3.4	10.2
100	4.8	2.2	6.6

Manual Integrations
APPROVED

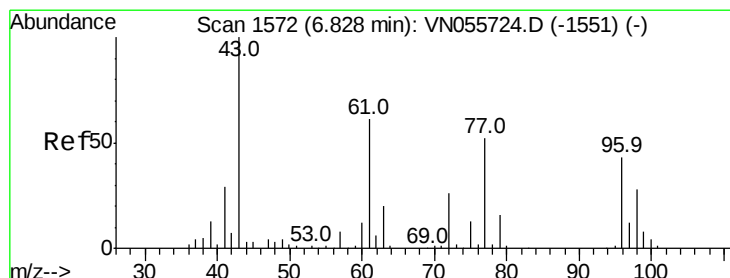
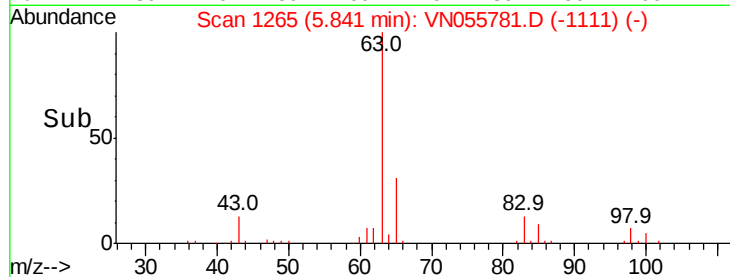
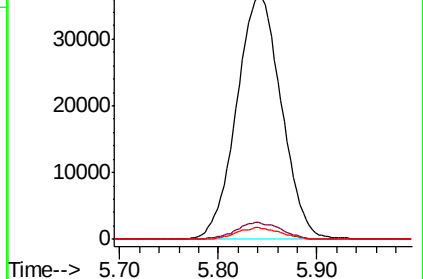
MMDadoda
5/28/2019 10:34:59 AM



Abundance Ion 63.00 (62.70 to 63.70): VN055724.D (-1244) (-)

Ion 98.00 (97.70 to 98.70): VN055724.D (-1244) (-)

Ion 100.00 (99.70 to 100.70): VN055724.D (-1244) (-)



#22

cis-1,2-Dichloroethene

Concen: 20.439 ug/l

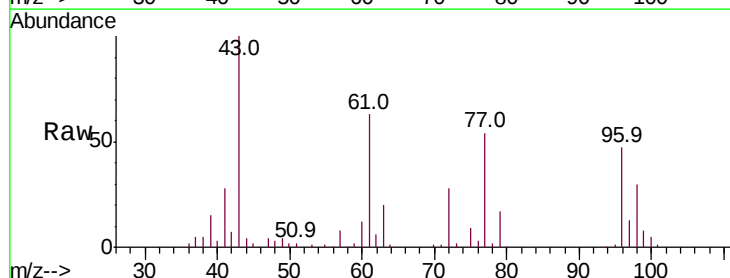
RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

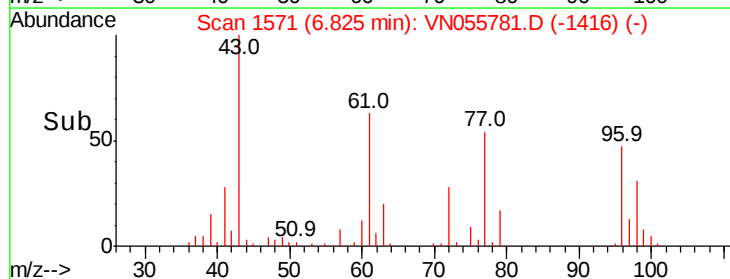
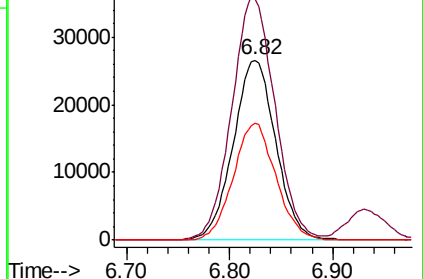
Tgt Ion:	96	Resp:	76326
Ion Ratio	Lower	Upper	
96	100		
61	137.2	115.7	173.5
98	65.0	51.5	77.3

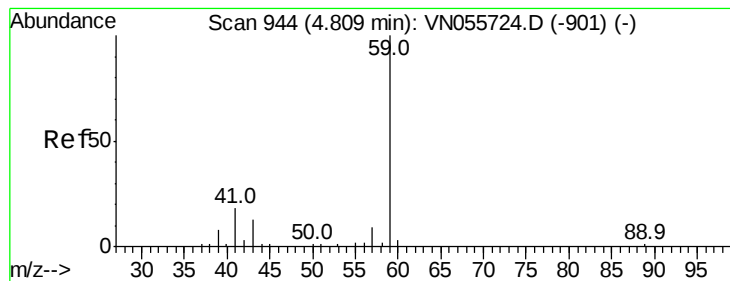


Abundance Ion 96.00 (95.70 to 96.70): VN055724.D (-1551) (-)

Ion 61.00 (60.70 to 61.70): VN055724.D (-1551) (-)

Ion 98.00 (97.70 to 98.70): VN055724.D (-1551) (-)





#23

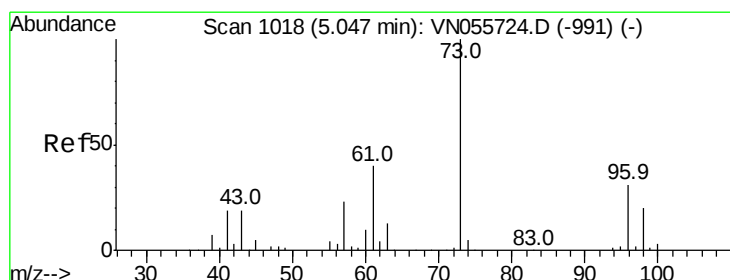
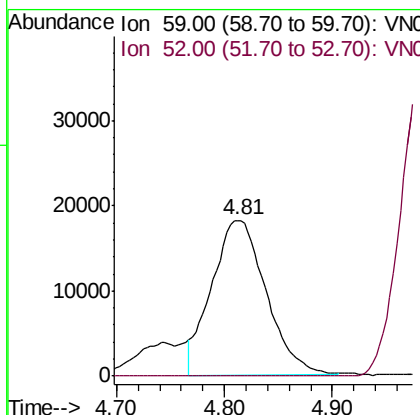
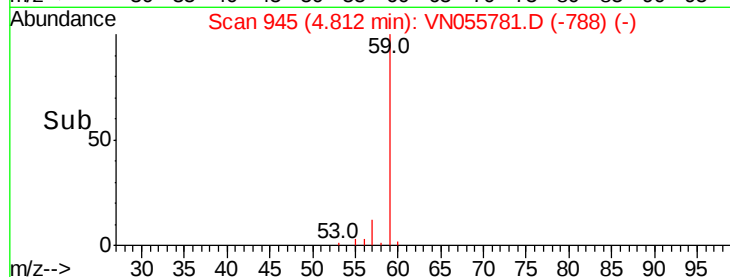
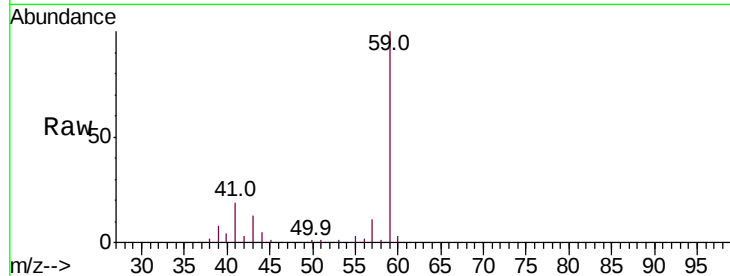
tert-Butyl Alcohol
 Concen: 88.231 ug/l
 RT: 4.81 min Scan# 945
 Delta R.T. 0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion: 59 Resp: 64312
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

Manual Integrations
 APPROVED

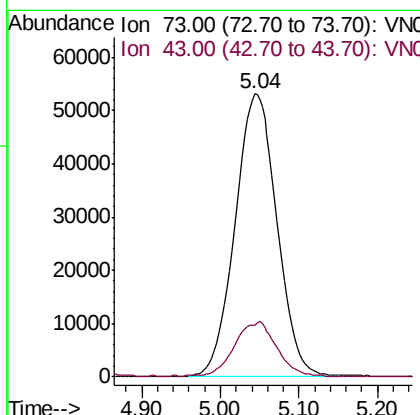
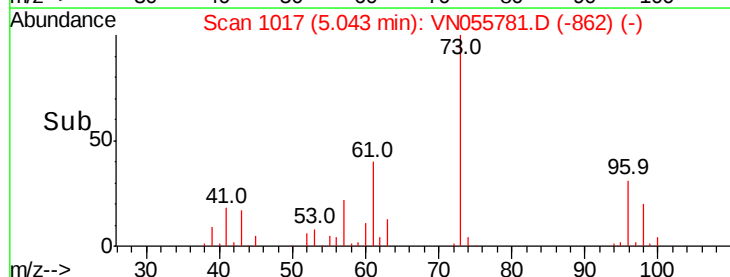
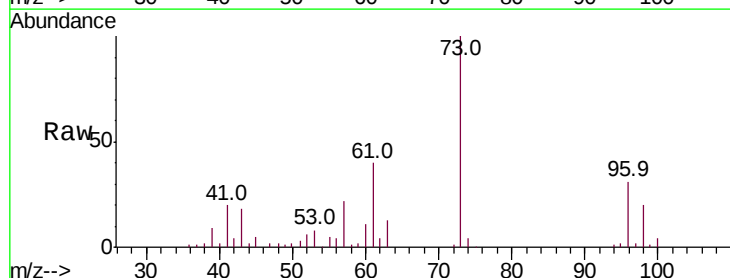
MMDadoda
 5/28/2019 10:34:59 AM

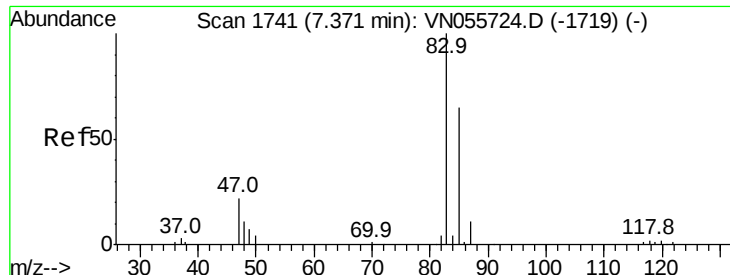


#24

Methyl tert-Butyl Ether
 Concen: 19.676 ug/l
 RT: 5.04 min Scan# 1017
 Delta R.T. -0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Tgt Ion: 73 Resp: 198727
 Ion Ratio Lower Upper
 73 100
 43 8.3 15.7 23.5#





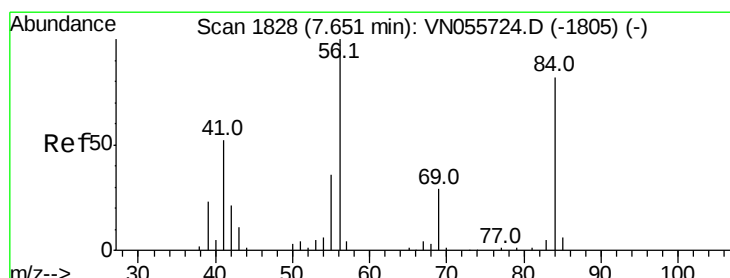
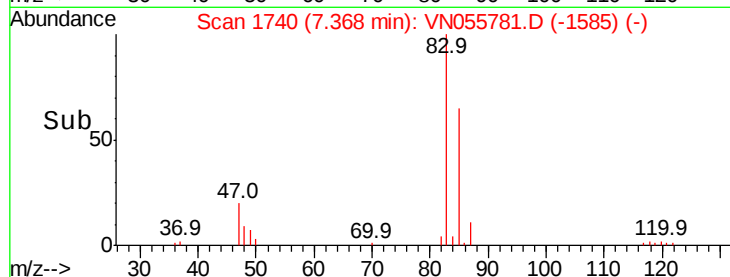
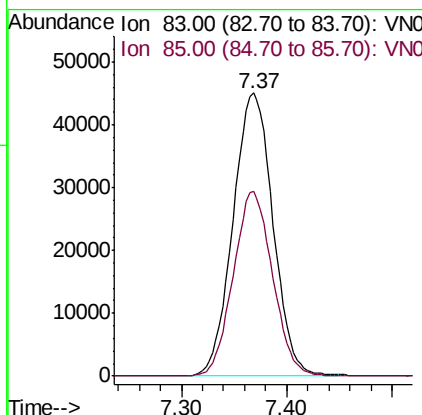
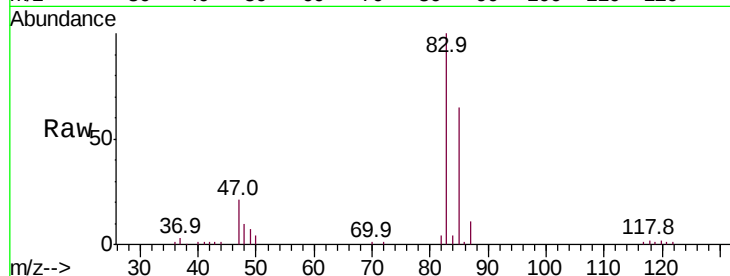
#25
Chloroform
Concen: 20.444 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 83 Resp: 118678
Ion Ratio Lower Upper
83 100
85 65.4 51.7 77.5

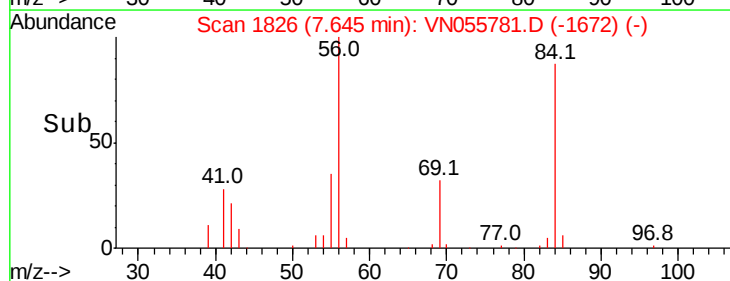
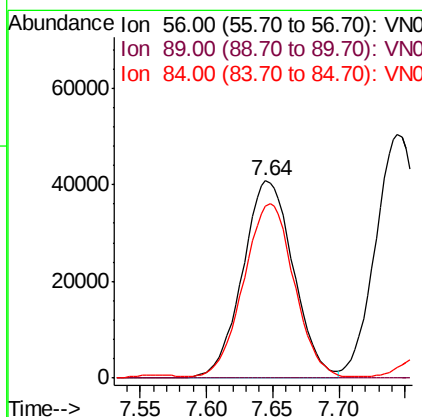
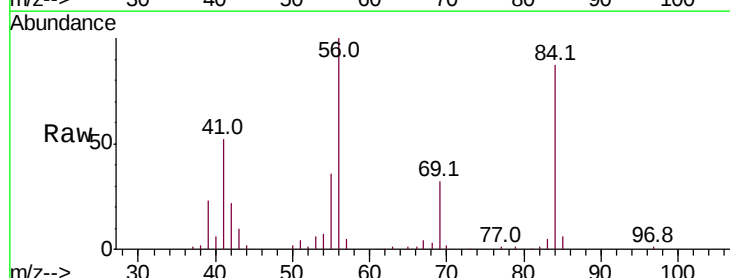
Manual Integrations
APPROVED

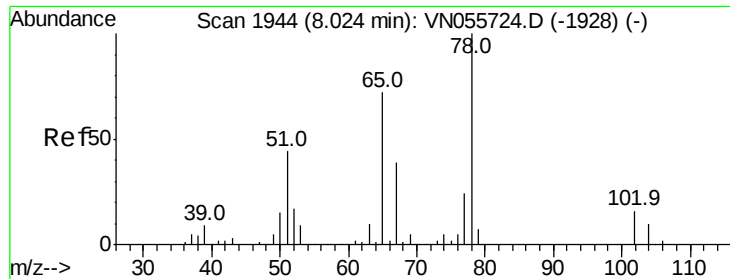
MMDadoda
5/28/2019 10:34:59 AM



#26
Cyclohexane
Concen: 20.091 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.01 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion: 56 Resp: 108936
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 88.7 67.2 100.8





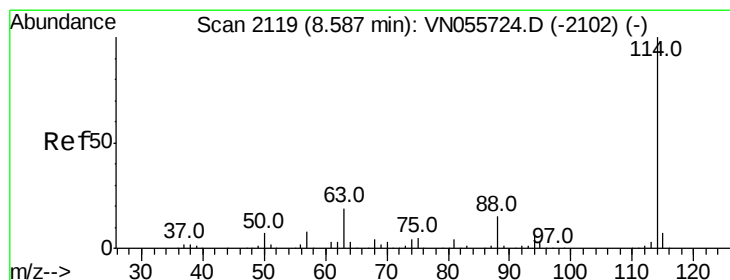
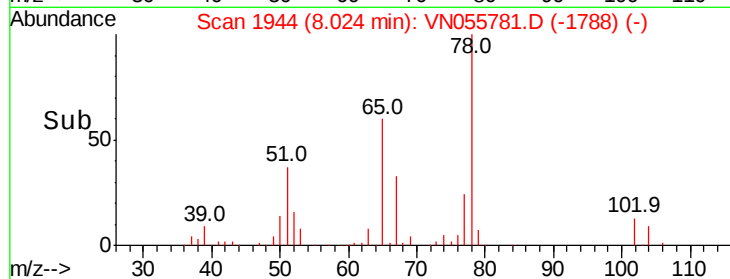
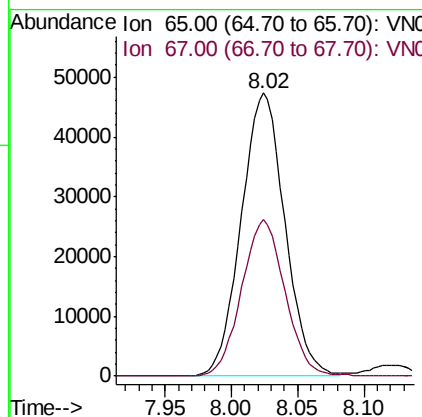
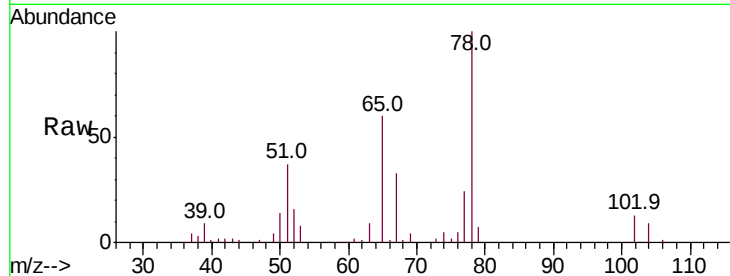
#27
 1,2-Dichloroethane-d4
 Concen: 29.409 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.9	43.5	65.3

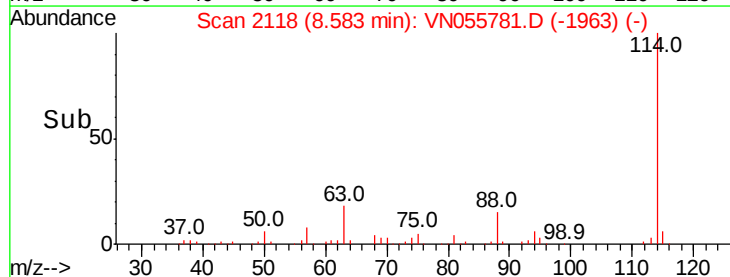
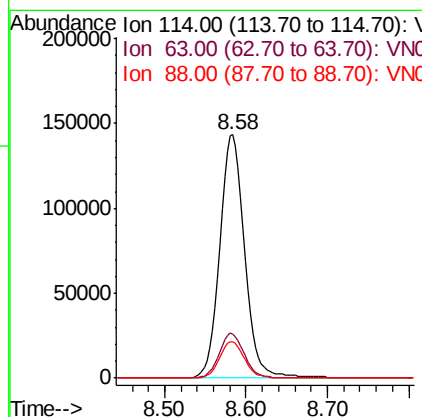
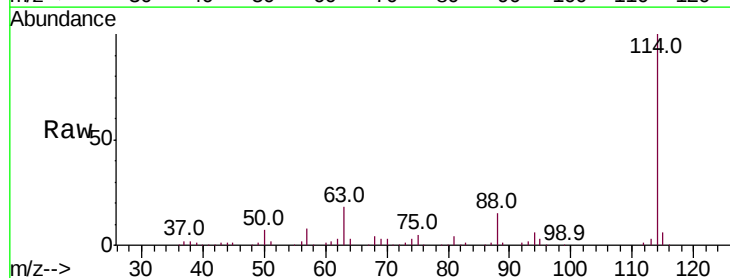
Manual Integrations
 APPROVED

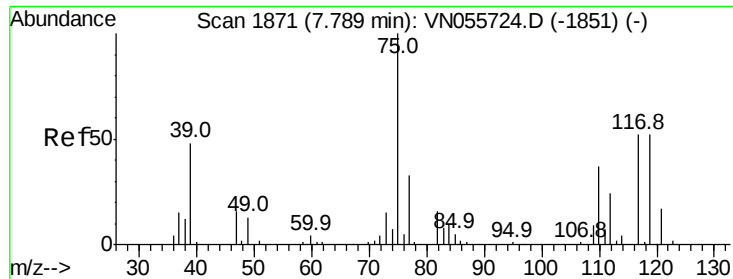
MMDadoda
 5/28/2019 10:34:59 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.3	15.6	23.4
88	15.2	12.3	18.5





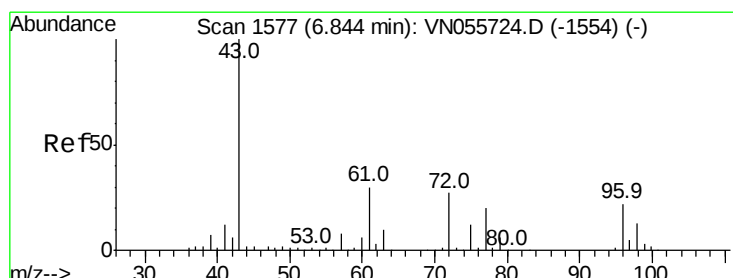
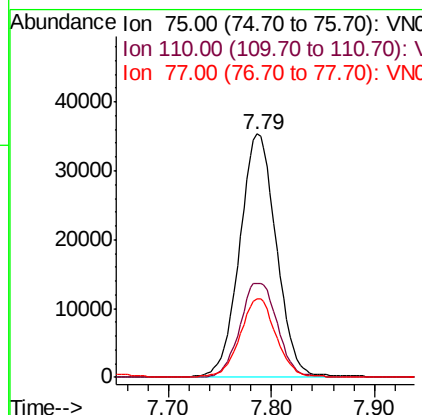
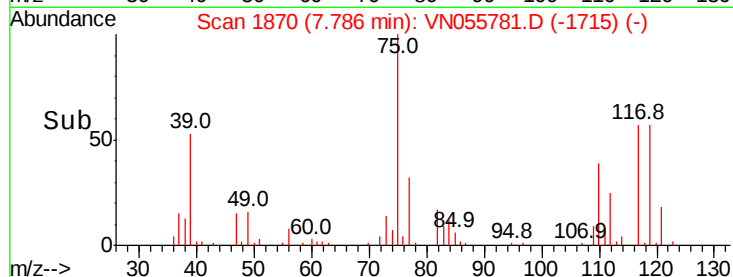
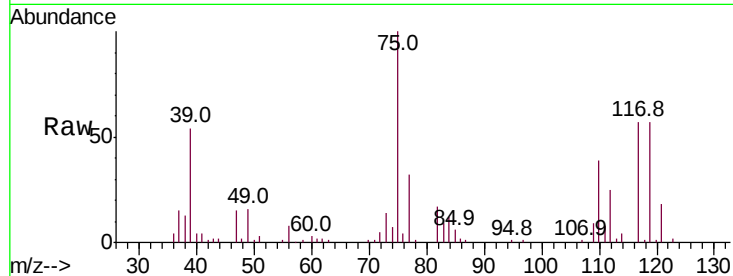
#29
 1,1-Dichloropropene
 Concen: 20.096 ug/l
 RT: 7.79 min Scan# 1870
 Delta R.T. -0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
110	39.5	0.0	74.8	
77	31.7	0.0	65.2	

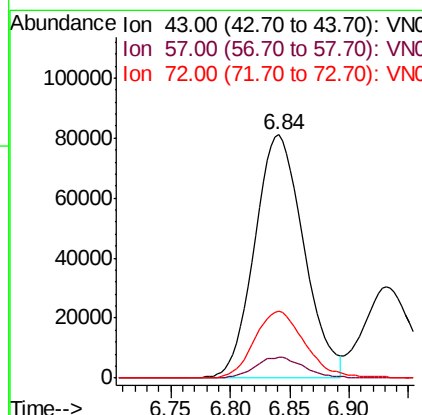
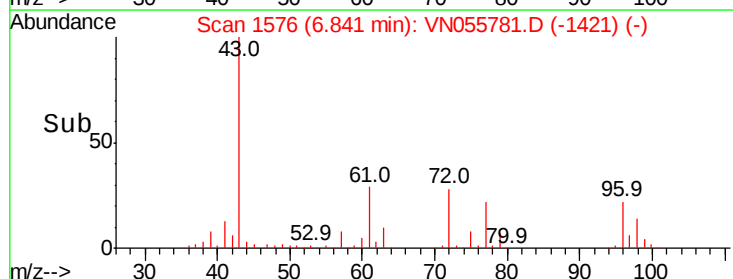
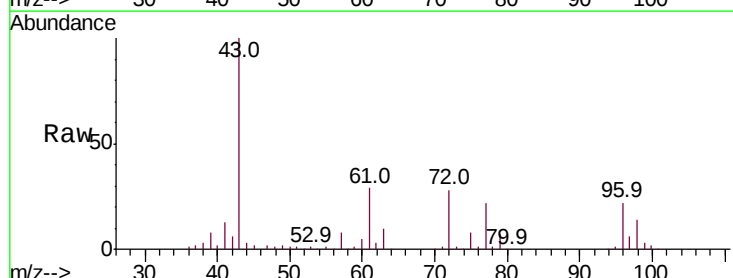
Manual Integrations
 APPROVED

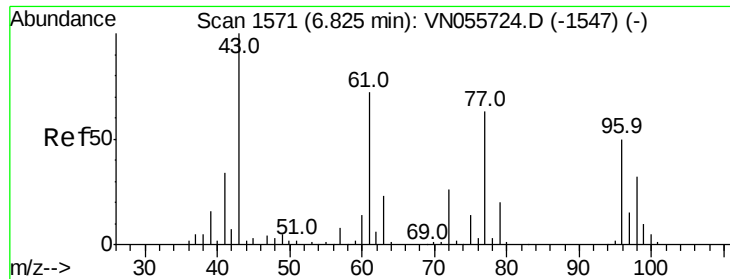
MMDadoda
 5/28/2019 10:34:59 AM



#30
 2-Butanone
 Concen: 99.970 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
57	8.6	6.6	10.0	
72	28.4	21.7	32.5	





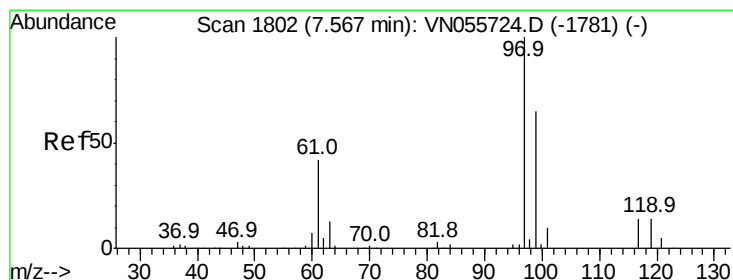
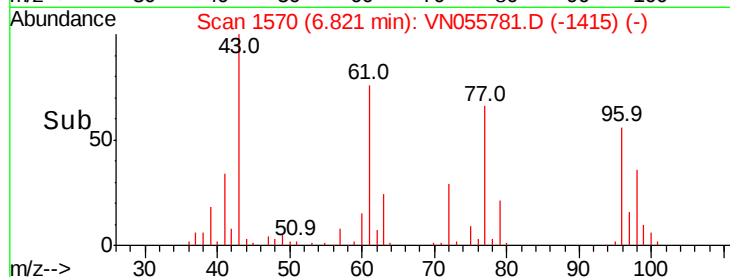
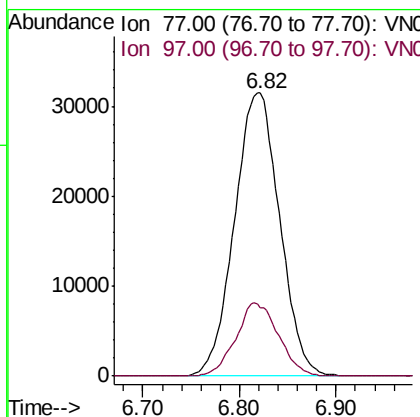
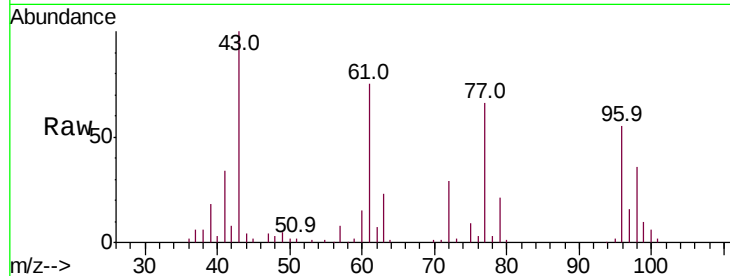
#31
 2,2-Dichloropropane
 Concen: 20.161 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
77	100		
97	24.4	19.2	28.8

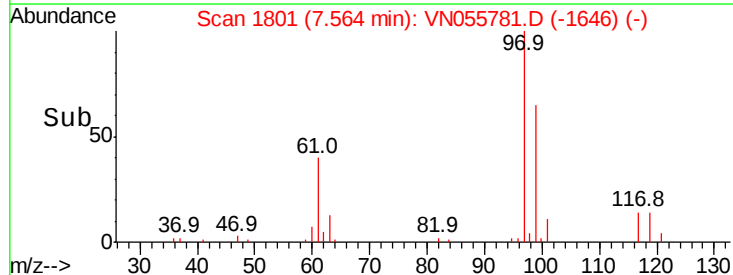
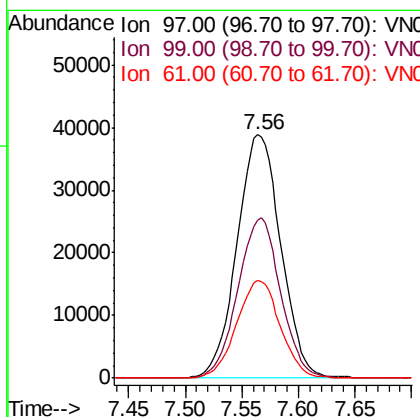
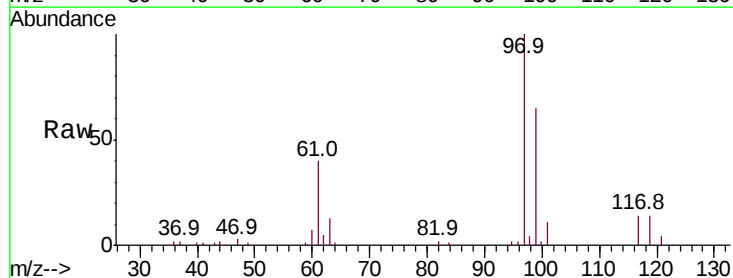
Manual Integrations
 APPROVED

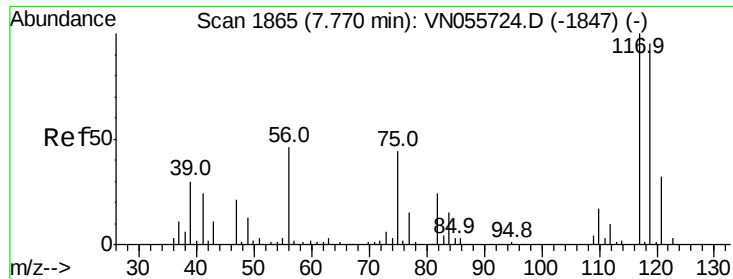
MMDadoda
 5/28/2019 10:34:59 AM



#32
 1,1,1-Trichloroethane
 Concen: 20.244 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.7	77.5
61	39.8	33.1	49.7





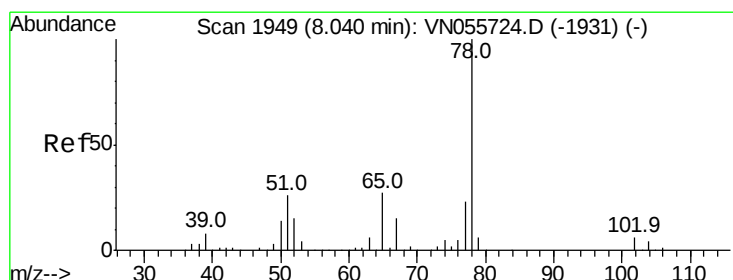
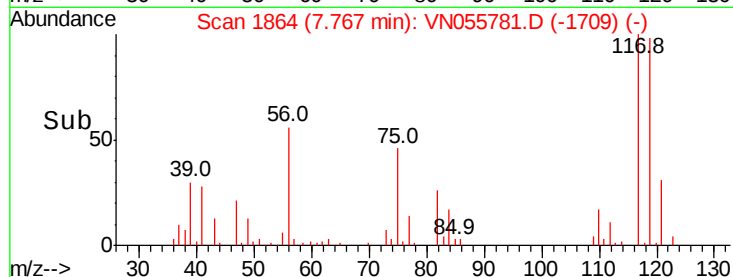
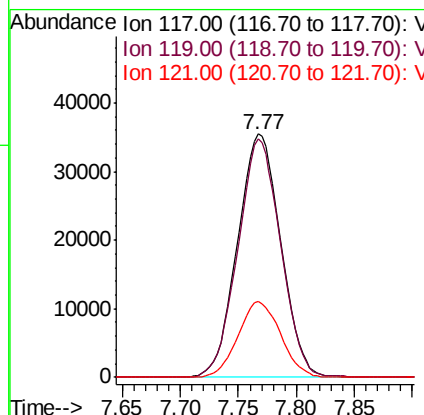
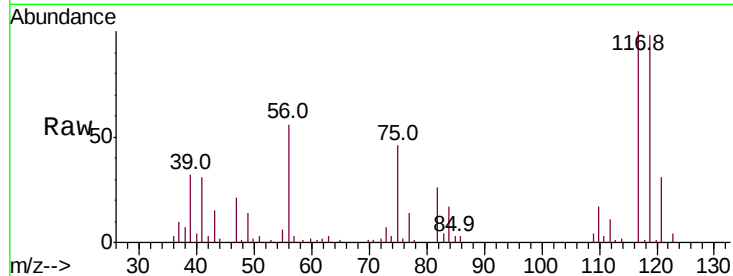
#33
Carbon Tetrachloride
Concen: 19.847 ug/l
RT: 7.77 min Scan# 1864
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
117	100		
119	98.2	75.8	113.8
121	31.0	25.4	38.0

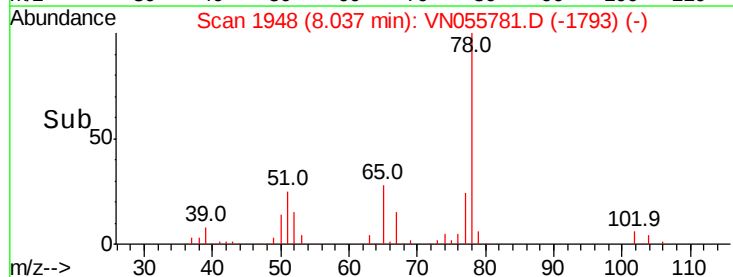
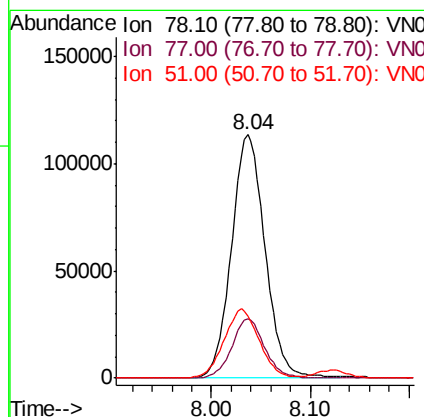
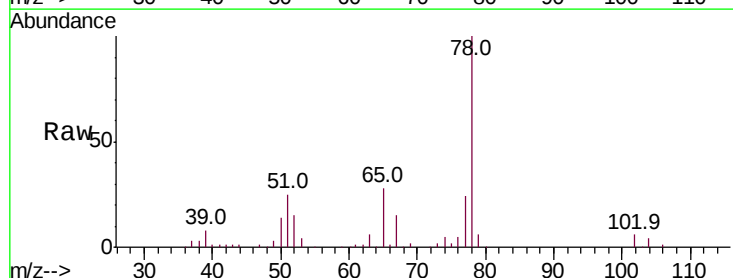
Manual Integrations
APPROVED

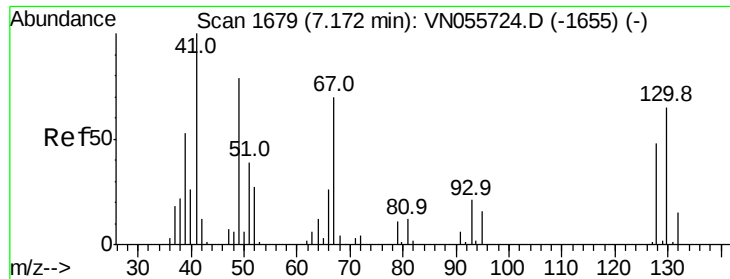
MMDadoda
5/28/2019 10:34:59 AM



#34
Benzene
Concen: 20.005 ug/l
RT: 8.04 min Scan# 1948
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.8	28.2
51	25.2	20.6	31.0





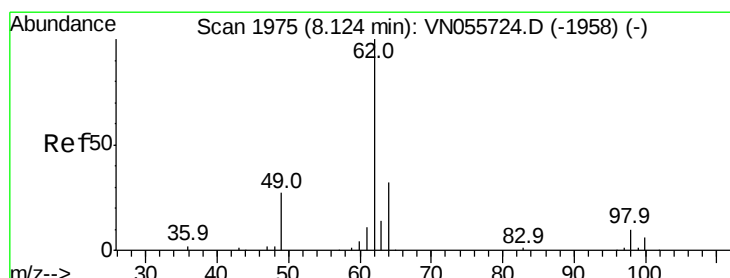
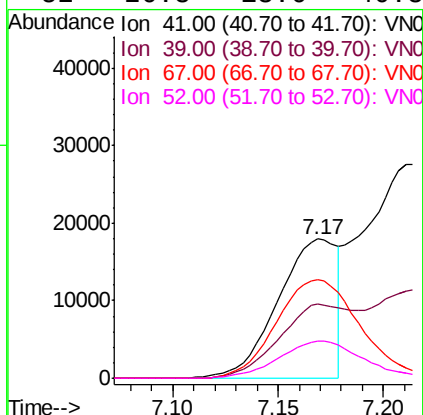
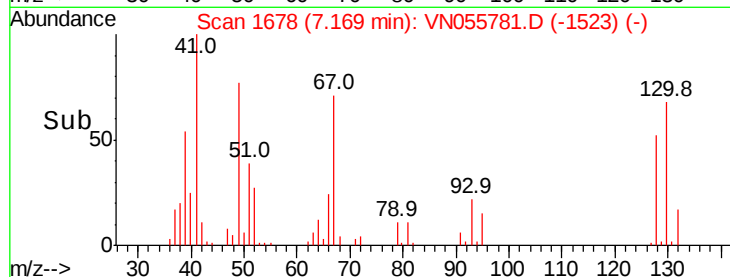
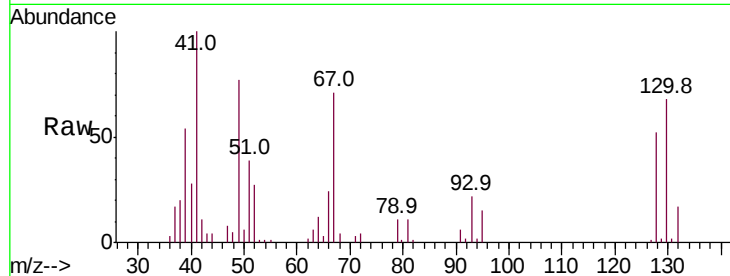
#35
Methacrylonitrile
Concen: 16.393 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	53.7	26.7	80.1
67	71.0	34.9	104.7
52	26.8	13.6	40.8

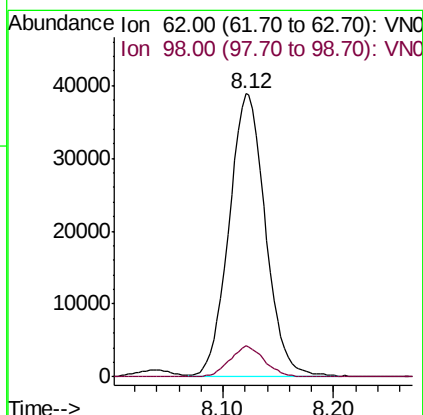
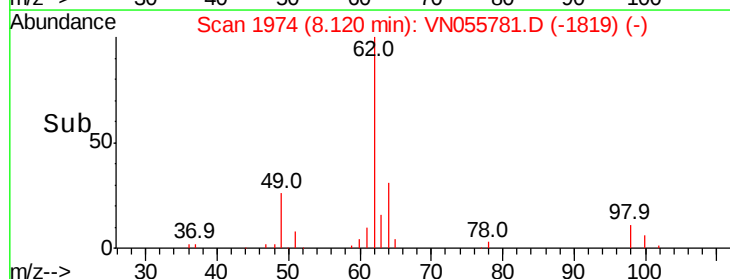
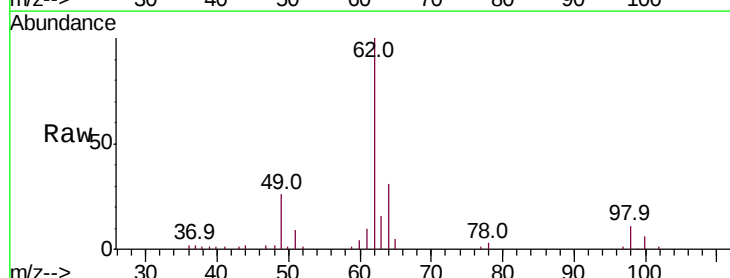
Manual Integrations
APPROVED

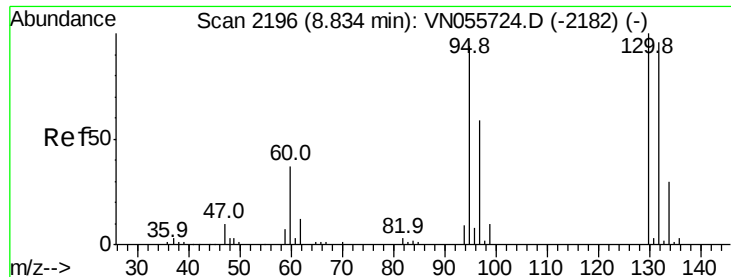
MMDadoda
5/28/2019 10:34:59 AM



#36
1,2-Dichloroethane
Concen: 20.114 ug/l
RT: 8.12 min Scan# 1974
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.4	8.2	12.2





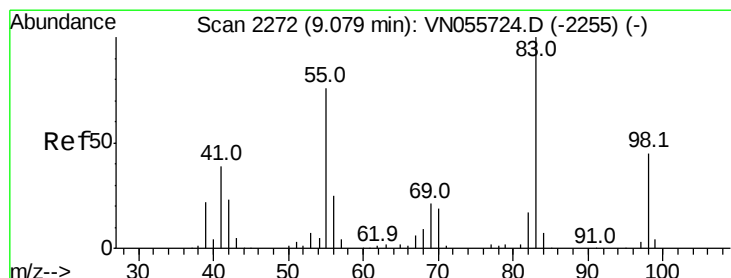
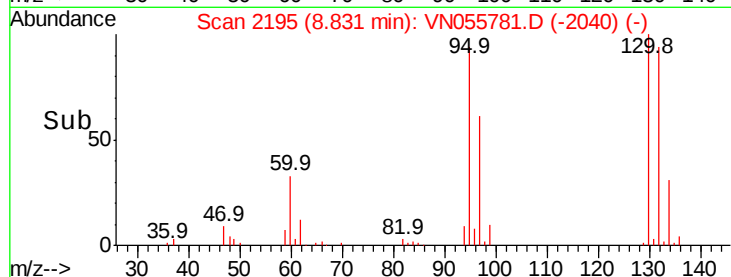
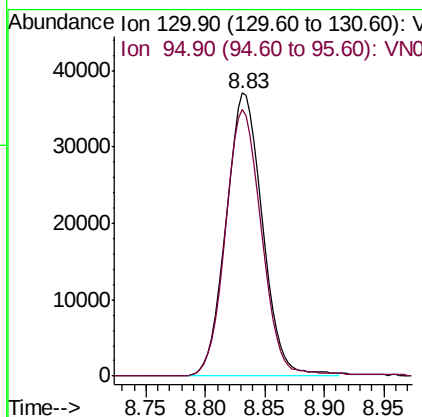
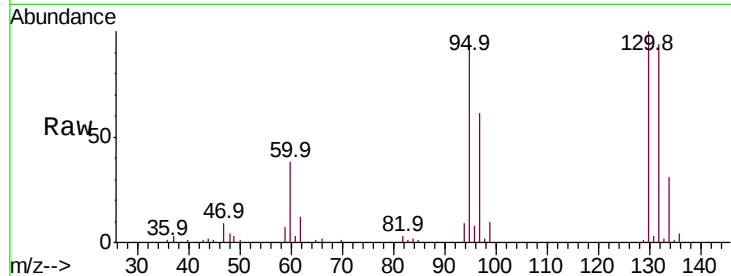
#37
 Trichloroethene
 Concen: 20.980 ug/l
 RT: 8.83 min Scan# 2195
 Delta R.T. -0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion:130 Resp: 78749
 Ion Ratio Lower Upper
 130 100
 95 94.3 75.6 113.4

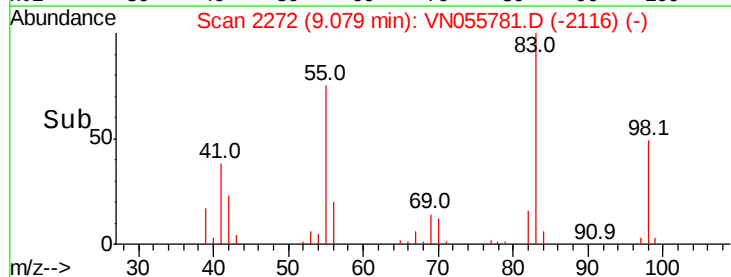
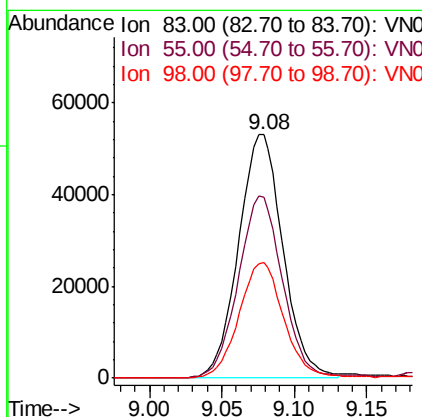
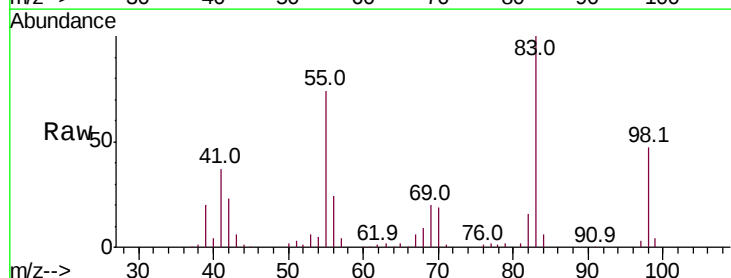
Manual Integrations
 APPROVED

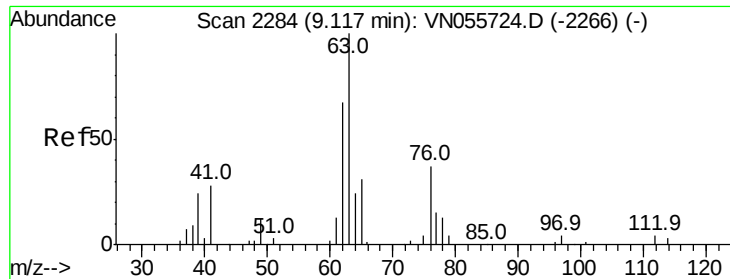
MMDadoda
 5/28/2019 10:34:59 AM



#38
 Methylcyclohexane
 Concen: 20.520 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Tgt Ion: 83 Resp: 113287
 Ion Ratio Lower Upper
 83 100
 55 74.3 37.8 113.4
 98 48.0 22.6 67.8





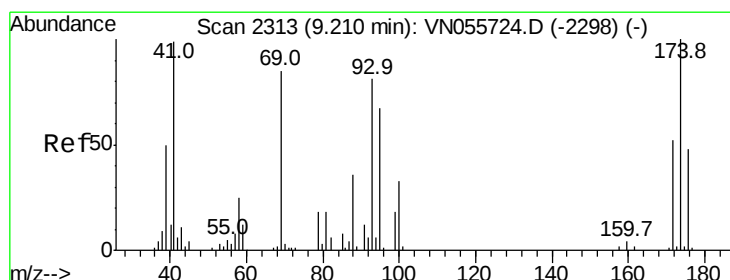
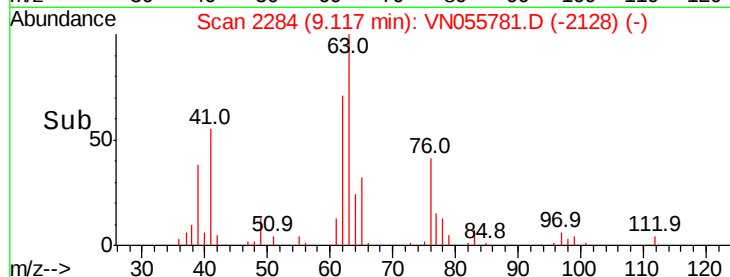
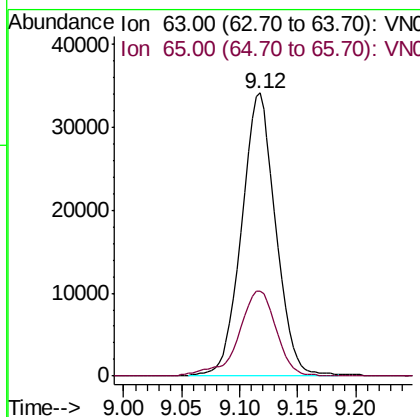
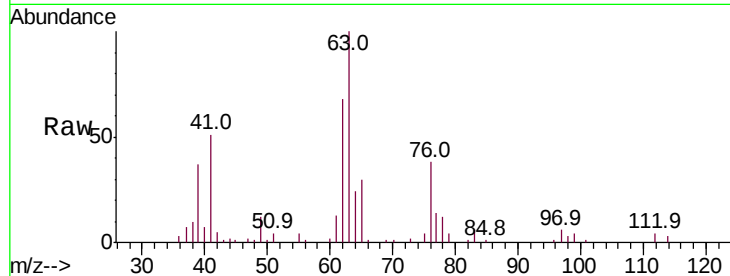
#39
 1,2-Dichloropropane
 Concen: 19.370 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	63	Ratio	Lower	Upper
63	100			
65	30.2	25.8	38.8	

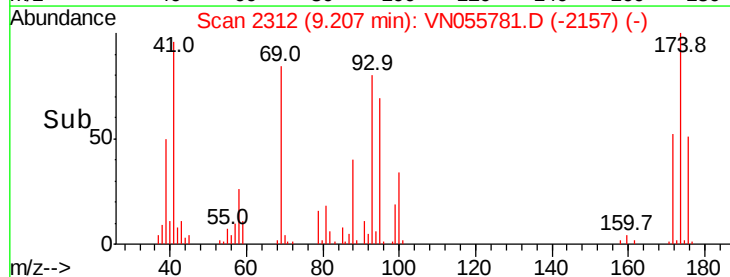
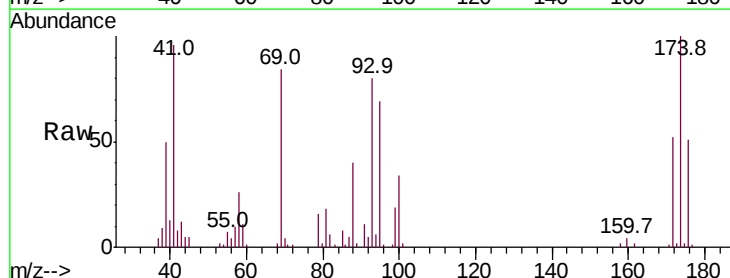
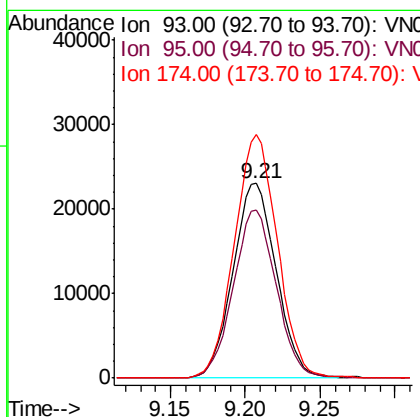
Manual Integrations
 APPROVED

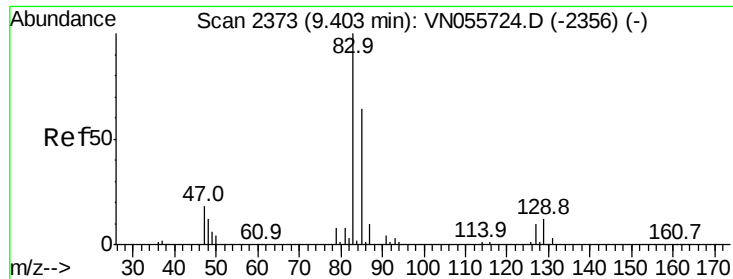
MMDadoda
 5/28/2019 10:34:59 AM



#40
 Dibromomethane
 Concen: 19.931 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Tgt Ion	93	Ratio	Lower	Upper
93	100			
95	85.3	0.0	170.6	
174	124.1	0.0	248.4	





#41

Bromodichloromethane

Concen: 19.191 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

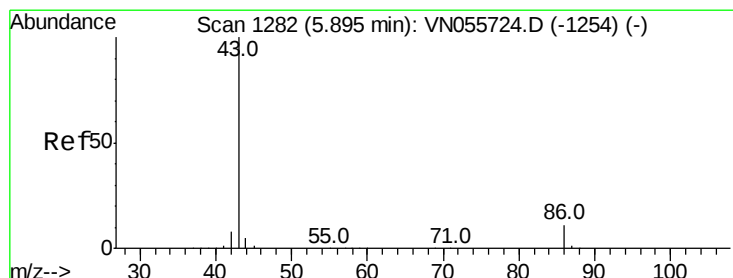
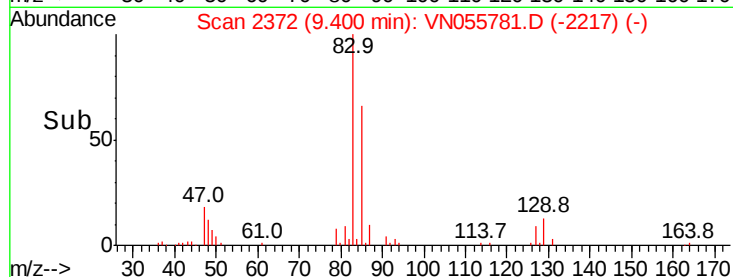
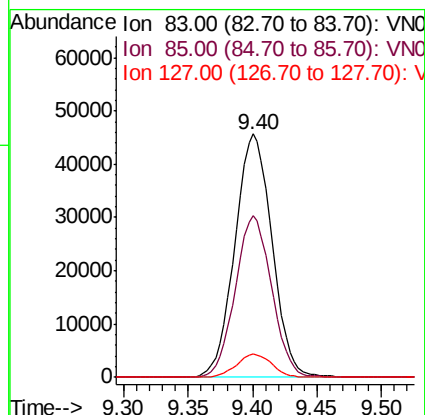
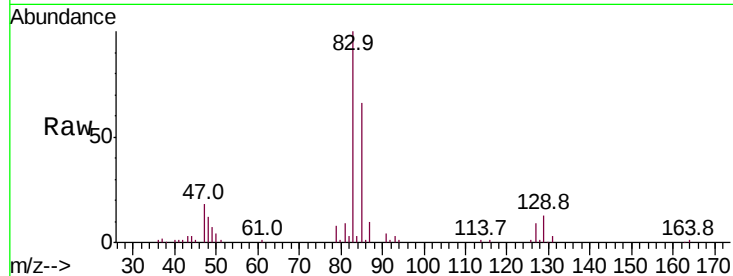
ClientSampleId :

VSTDCCC020

Tot Ion:	83	Resp:	91852
Ion Ratio	Lower	Upper	
83	100		
85	66.3	51.4	77.0
127	9.4	7.7	11.5

Manual Integrations
APPROVED

MMDadoda
5/28/2019 10:34:59 AM



#42

Vinyl Acetate

Concen: 92.707 ug/l

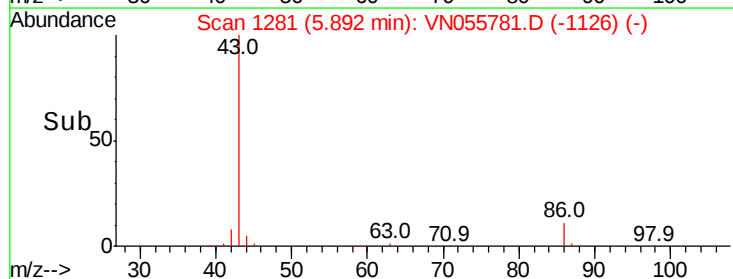
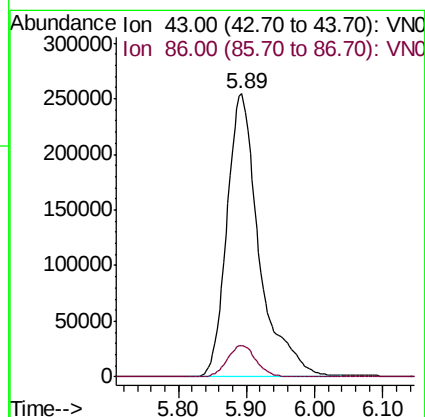
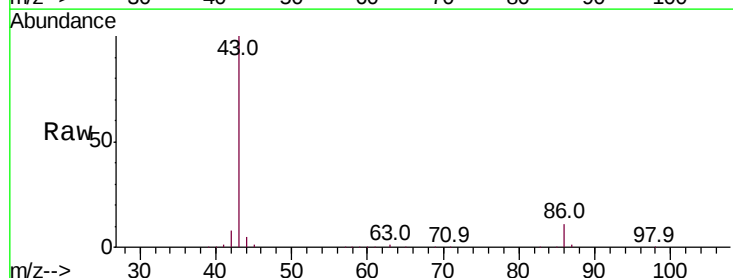
RT: 5.89 min Scan# 1281

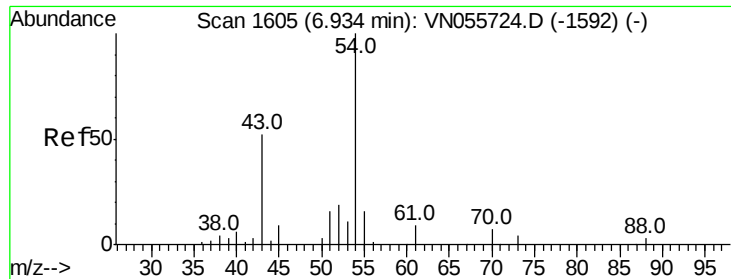
Delta R.T. -0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Tgt Ion:	43	Resp:	835969
Ion Ratio	Lower	Upper	
43	100		
86	9.9	7.4	11.2





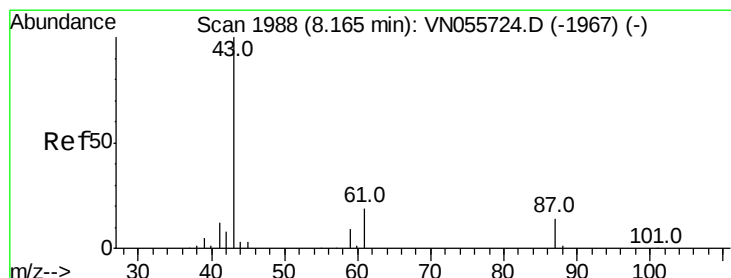
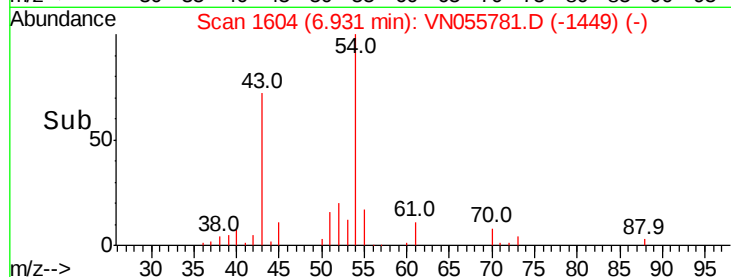
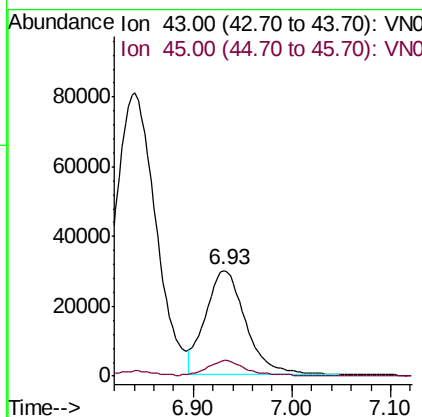
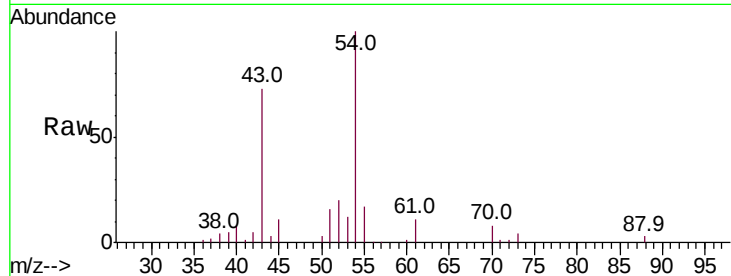
#43
Ethyl Acetate
Concen: 18.606 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion: 43 Resp: 84938
Ion Ratio Lower Upper
43 100
45 15.0 0.0 0.0#

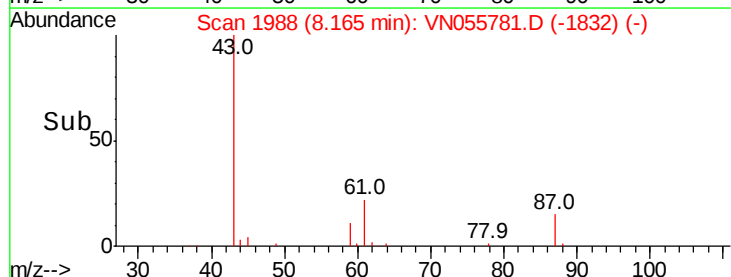
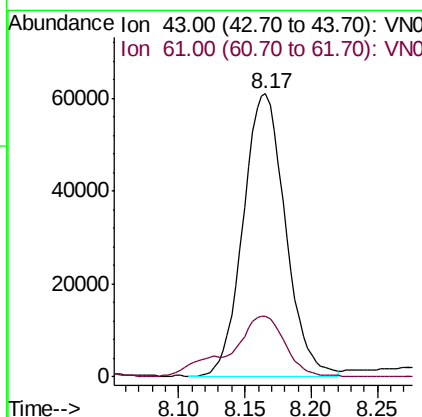
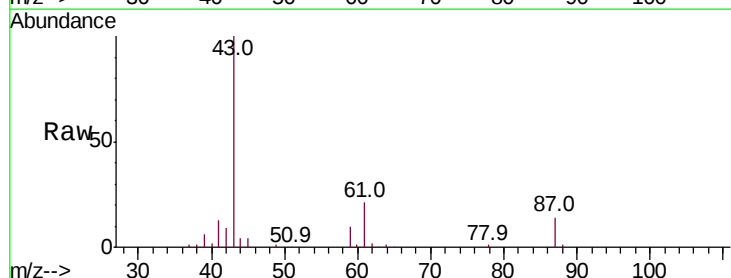
Manual Integrations
APPROVED

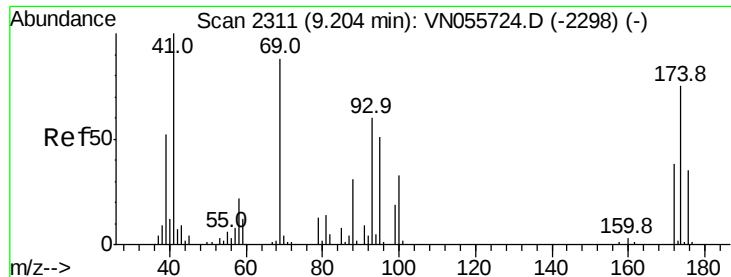
MMDadoda
5/28/2019 10:34:59 AM



#44
Isopropyl Acetate
Concen: 17.822 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion: 43 Resp: 134730
Ion Ratio Lower Upper
43 100
61 22.2 22.1 33.1





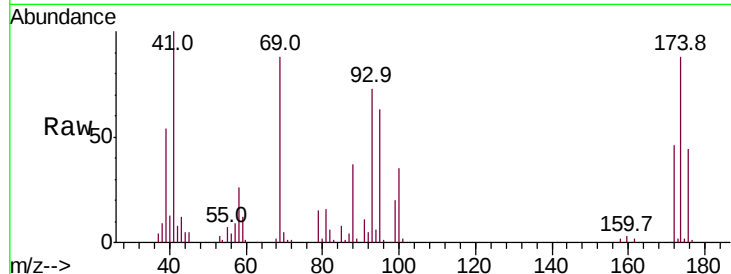
#45
 1,4-Dioxane
 Concen: 407.164 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

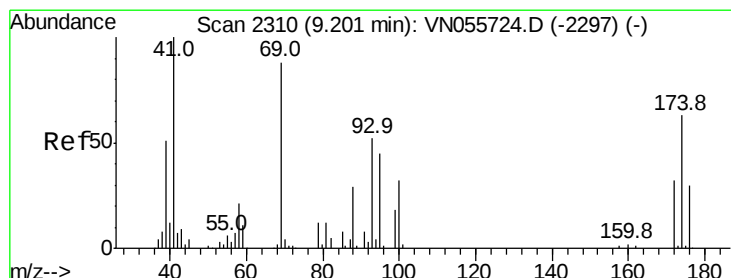
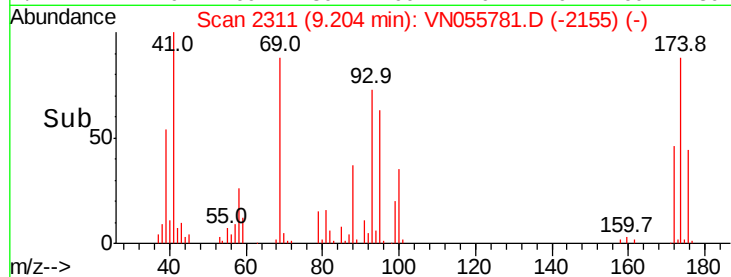
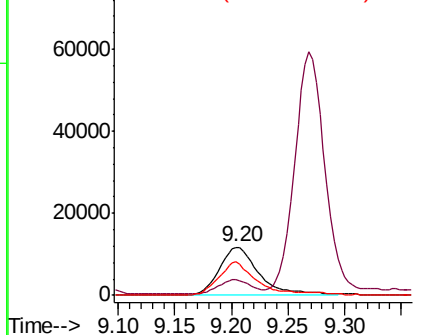
Tot Ion	Ratio	Lower	Upper
88	100		
43	23.7	20.5	30.7
58	63.9	56.1	84.1

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 10:34:59 AM



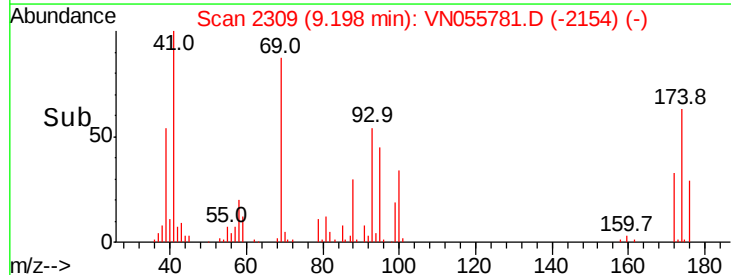
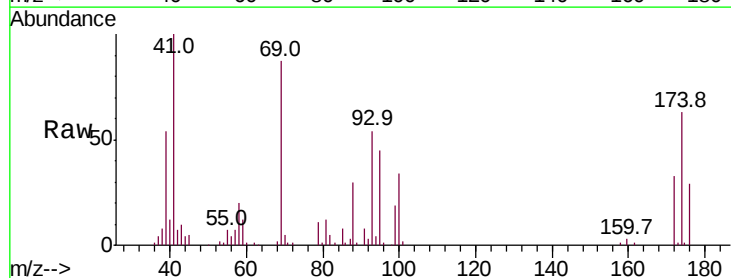
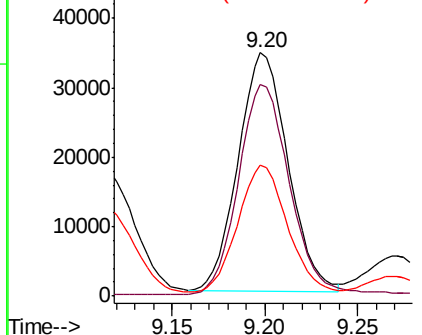
Abundance Ion 88.00 (87.70 to 88.70): VNO
 Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO

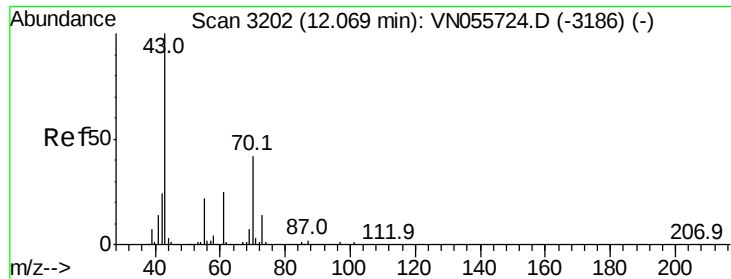


#46
 Methyl methacrylate
 Concen: 18.191 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Lower	Upper
41	100		
69	88.3	43.8	131.4
39	53.2	25.6	76.6

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





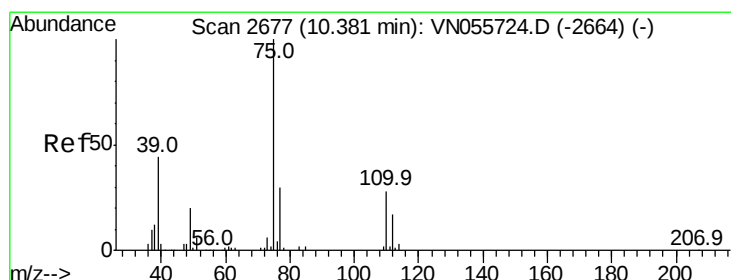
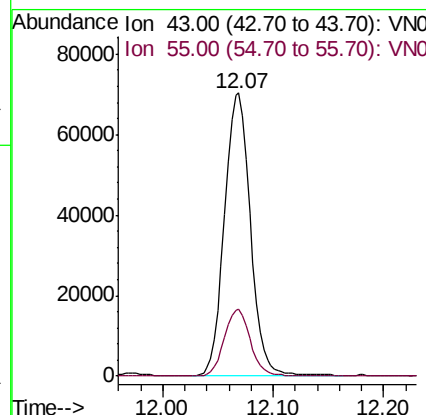
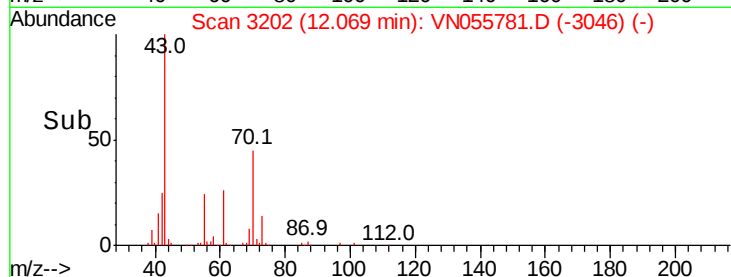
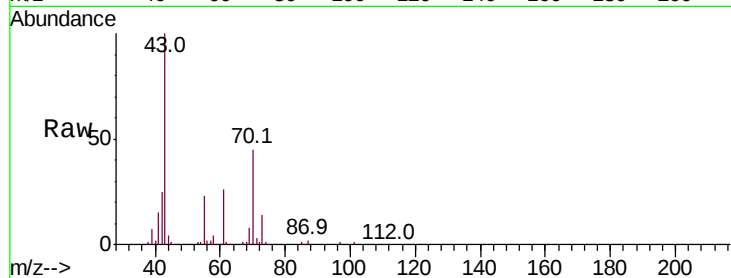
#47
n-amvl Acetate
Concen: 18.255 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 43 Resp: 114143
Ion Ratio Lower Upper
43 100
55 23.8 17.8 26.6

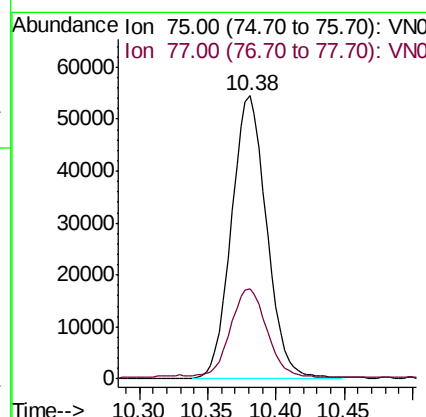
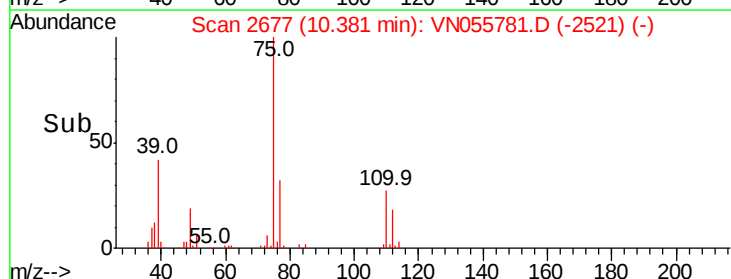
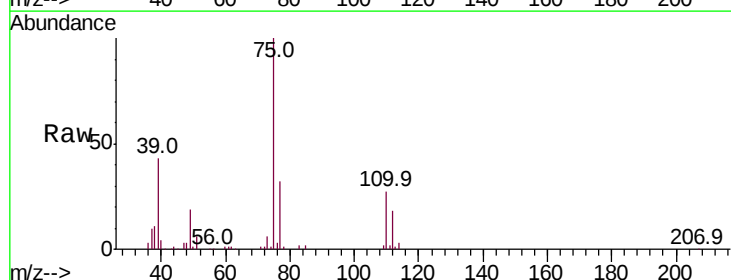
Manual Integrations
APPROVED

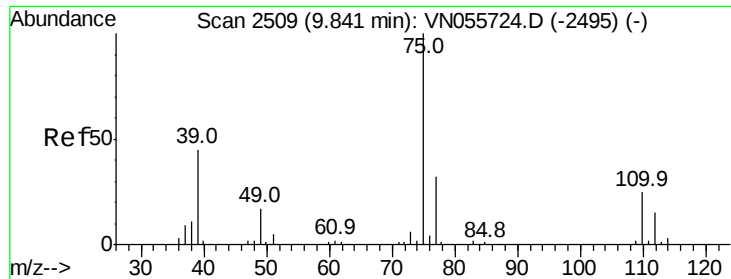
MMDadoda
5/28/2019 10:34:59 AM



#48
t-1,3-Dichloropropene
Concen: 18.556 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion: 75 Resp: 98039
Ion Ratio Lower Upper
75 100
77 31.2 25.2 37.8





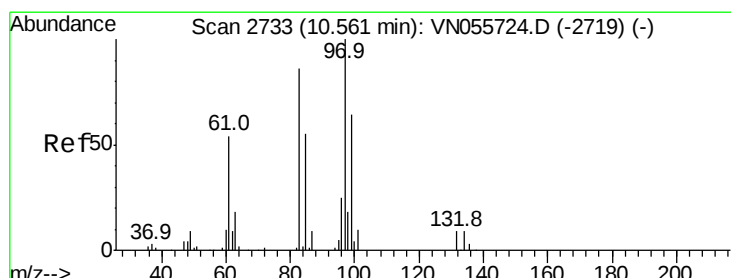
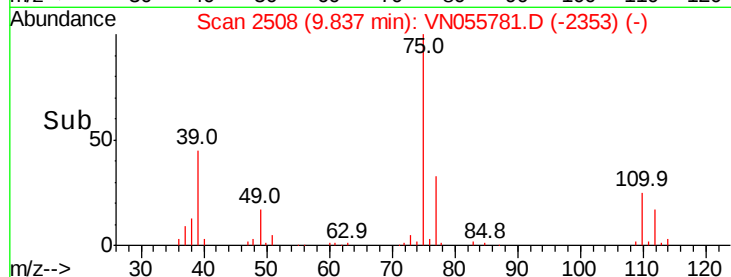
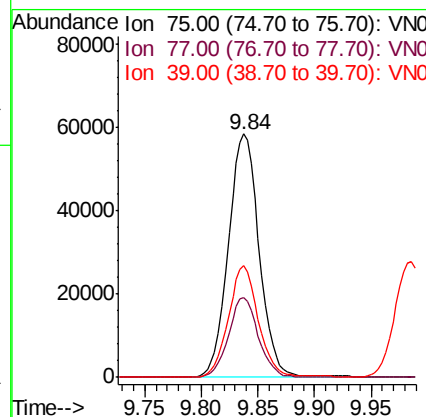
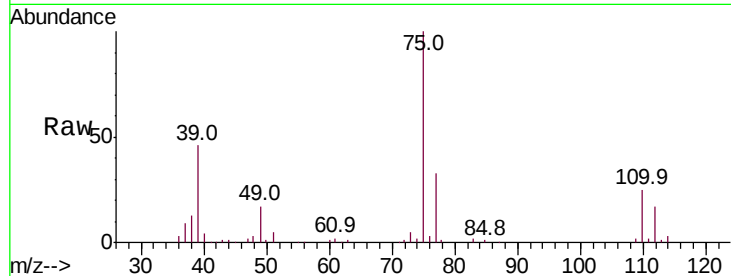
#49
 cis-1,3-Dichloropropene
 Concen: 19.152 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
77	32.8	26.0	39.0	
39	45.7	36.2	54.4	

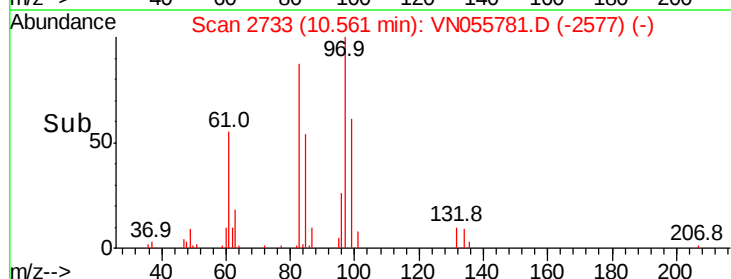
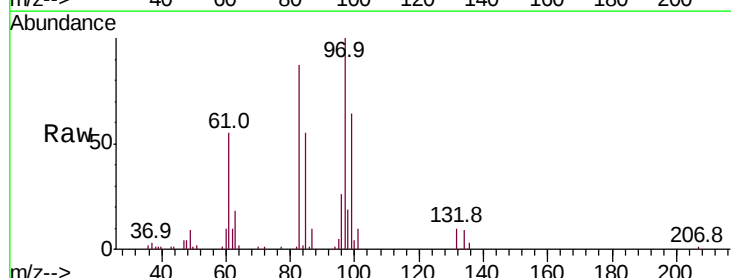
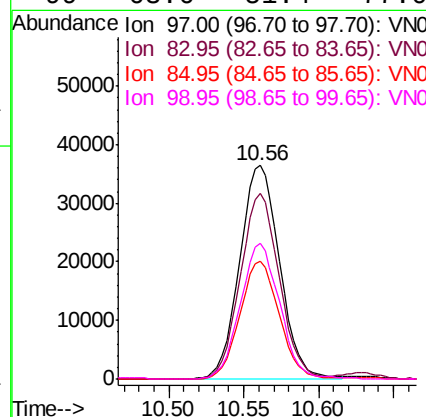
Manual Integrations
 APPROVED

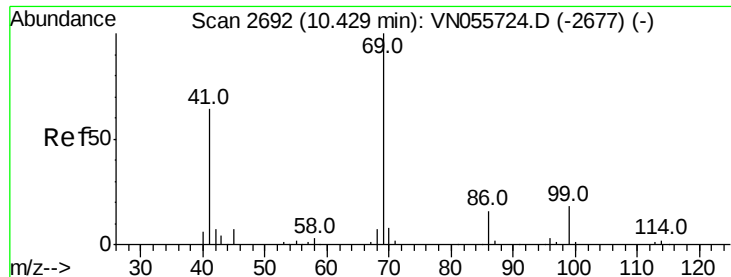
MMDadoda
 5/28/2019 10:34:59 AM



#50
 1,1,2-Trichloroethane
 Concen: 19.938 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Resp	Lower	Upper
97	100			
83	86.9	68.9	103.3	
85	54.8	44.3	66.5	
99	63.6	51.4	77.0	





#51

Ethyl methacrylate

Concen: 18.817 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

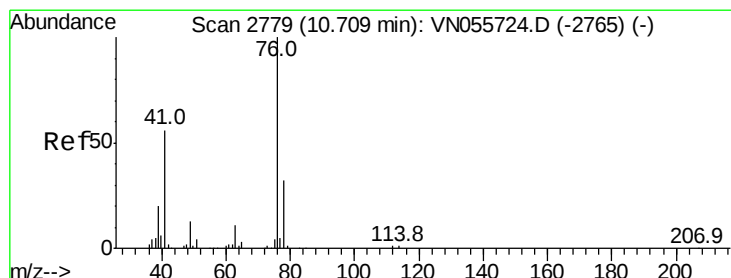
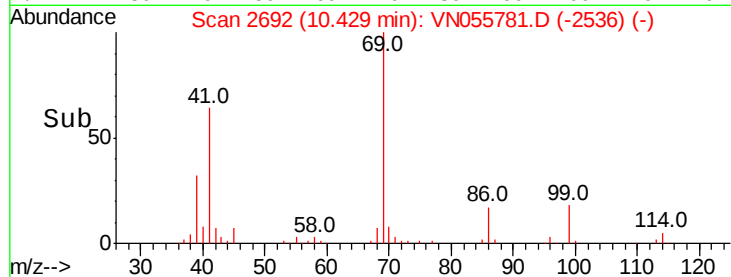
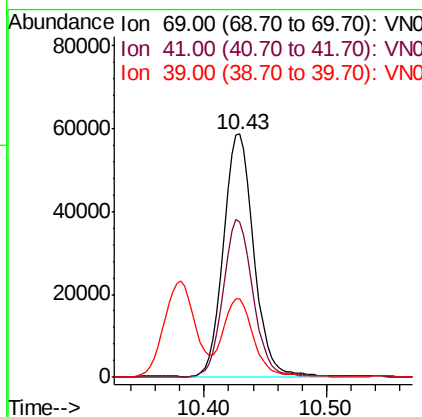
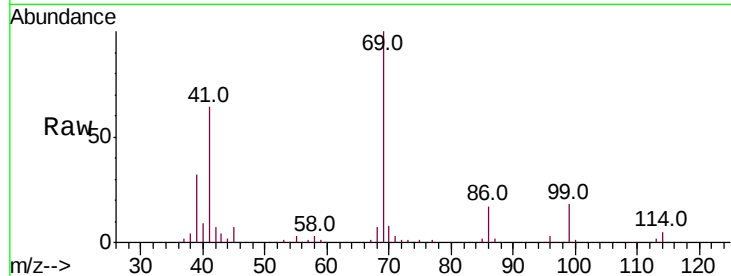
ClientSampleId :

VSTDCCC020

Tot Ion:	69	Resp:	103112
Ion Ratio	Lower	Upper	
69	100		
41	63.5	31.9	95.7
39	31.7	15.7	47.0

Manual Integrations
APPROVED

MMDadoda
5/28/2019 10:34:59 AM



#52

1,3-Dichloropropane

Concen: 19.615 ug/l

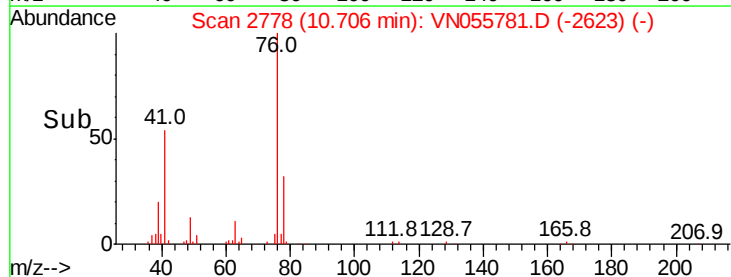
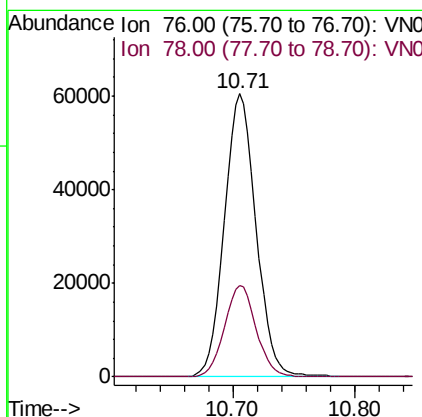
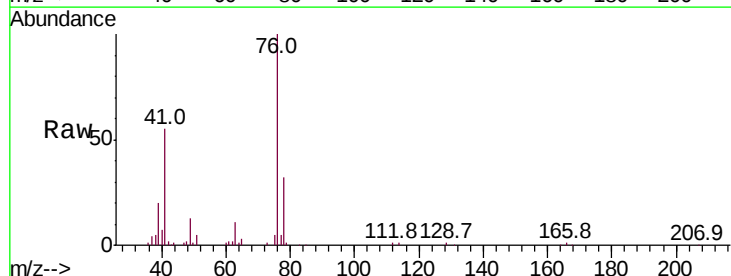
RT: 10.71 min Scan# 2778

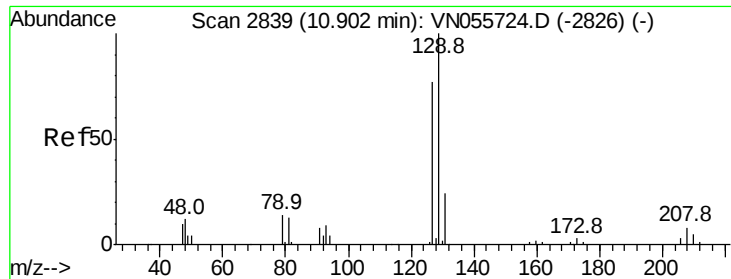
Delta R.T. -0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Tgt Ion:	76	Resp:	109919
Ion Ratio	Lower	Upper	
76	100		
78	32.4	0.0	65.0





#53

Dibromochloromethane

Concen: 19.281 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:129 Resp: 77435

Ion Ratio Lower Upper

129 100

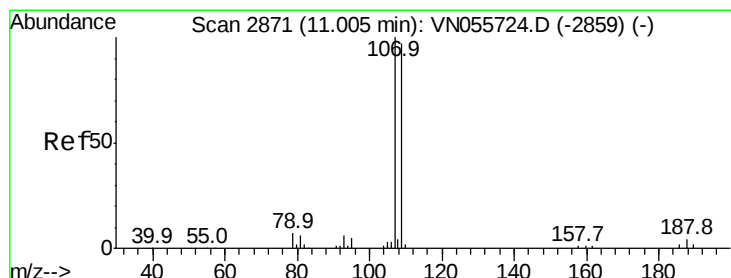
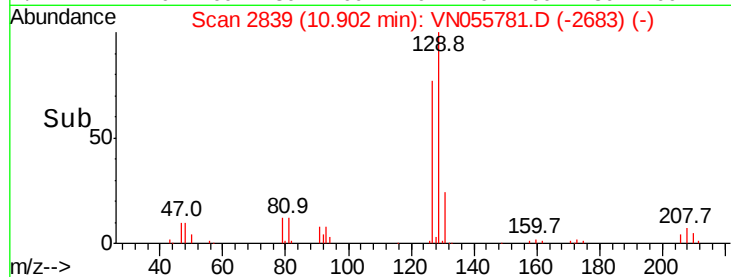
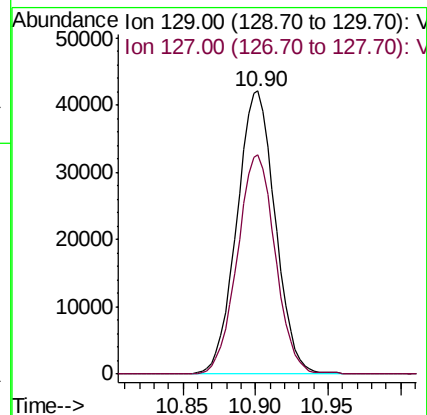
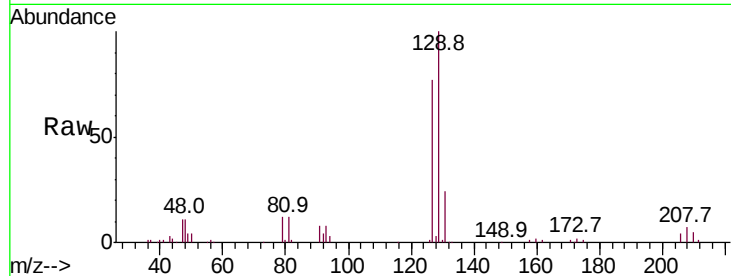
127 76.4 39.2 117.6

Manual Integrations

APPROVED

MMDadoda

5/28/2019 10:34:59 AM



#54

1,2-Dibromoethane

Concen: 20.115 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN055781.D

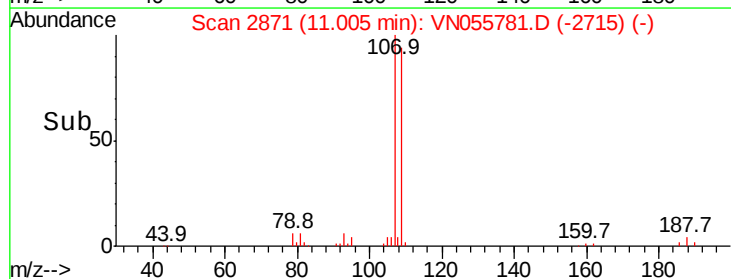
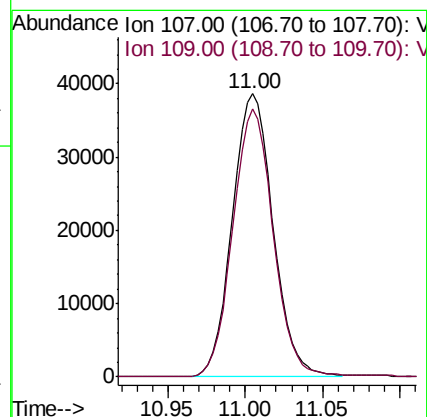
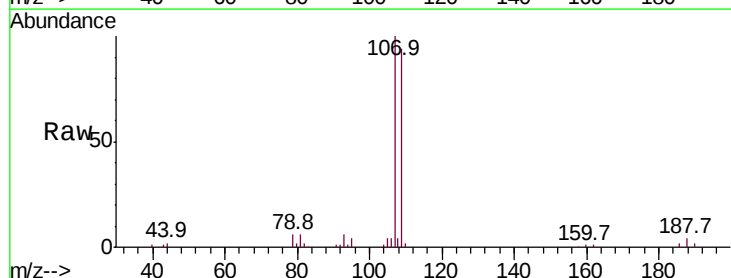
Acq: 24 May 2019 8:56

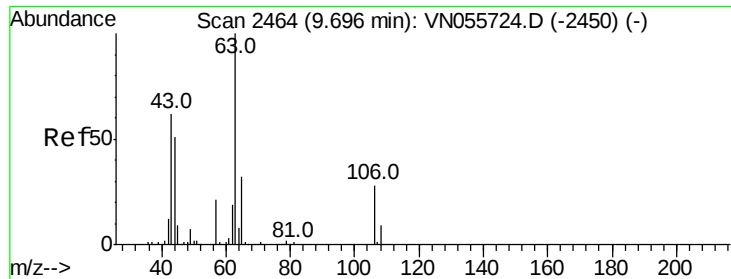
Tgt Ion:107 Resp: 70764

Ion Ratio Lower Upper

107 100

109 93.9 76.6 115.0





#55

2-Chloroethyl vinyl ether

Concen: 91.513 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

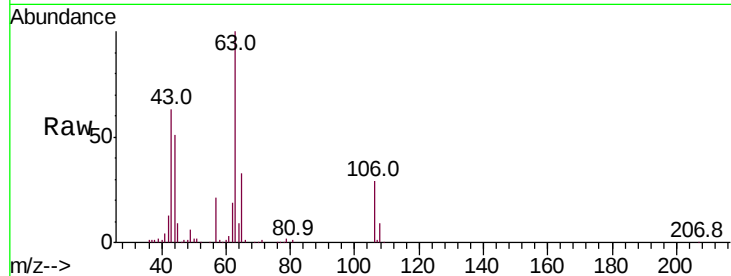
ClientSampleId :

VSTDCCC020

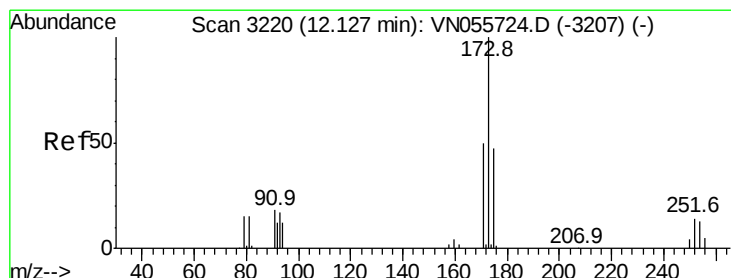
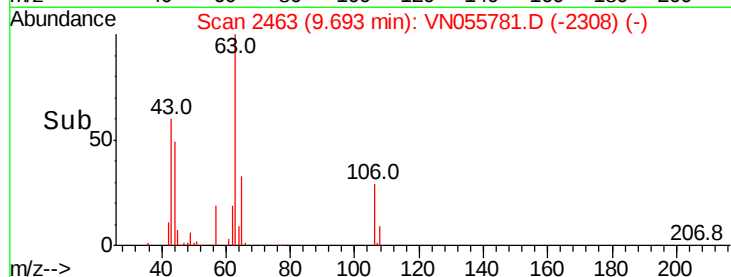
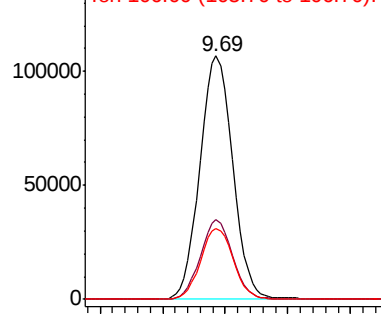
Tot Ion:	63	Resp:	195114
Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.4	38.0
106	28.9	22.1	33.1

Manual Integrations
APPROVED

MMDadoda
5/28/2019 10:34:59 AM



Abundance Ion 63.00 (62.70 to 63.70): VN055724.D (-2450) (-)



#56

Bromoform

Concen: 18.034 ug/l

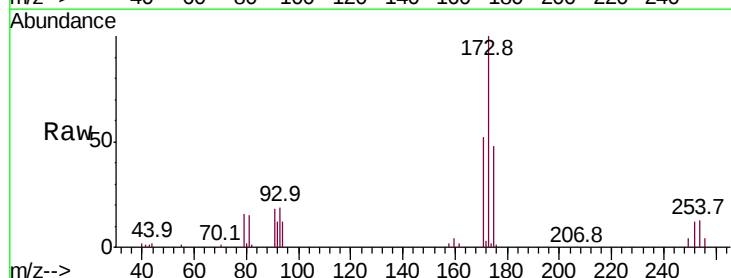
RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

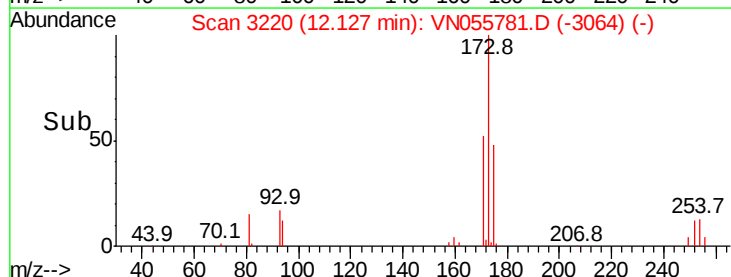
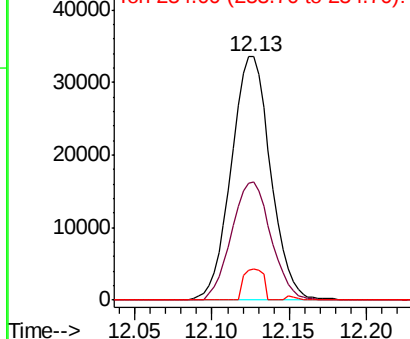
Lab File: VN055781.D

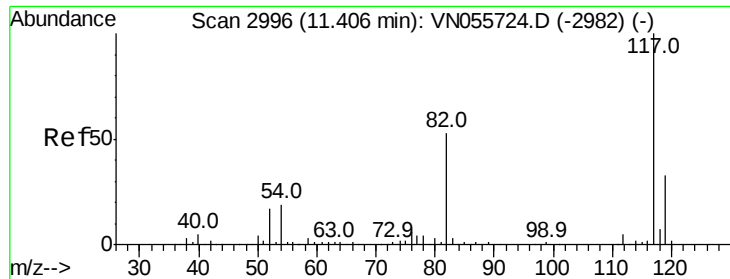
Acq: 24 May 2019 8:56

Tgt Ion:	173	Resp:	59410
Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.5	57.7
254	6.3	9.4	14.0#



Abundance Ion 173.00 (172.70 to 173.70): VN055724.D (-3207) (-)





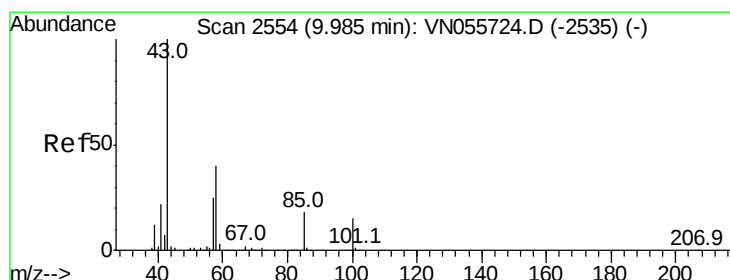
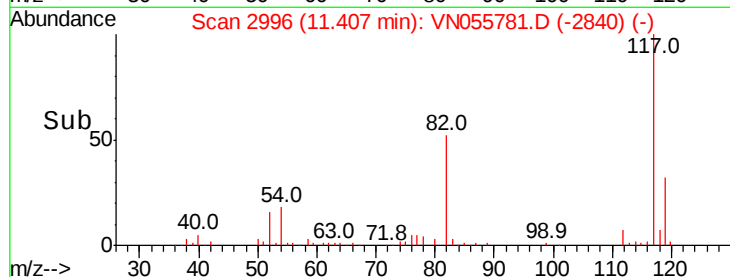
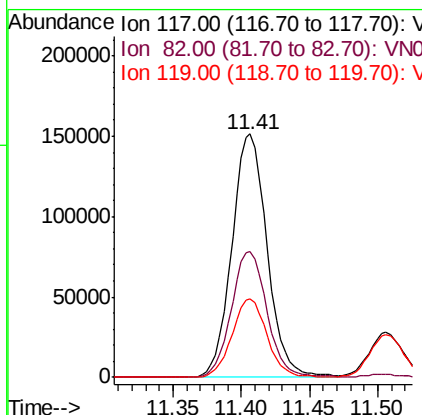
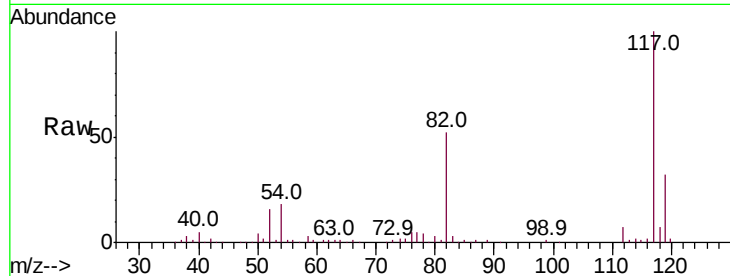
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.6	64.0
119	32.1	25.9	38.9

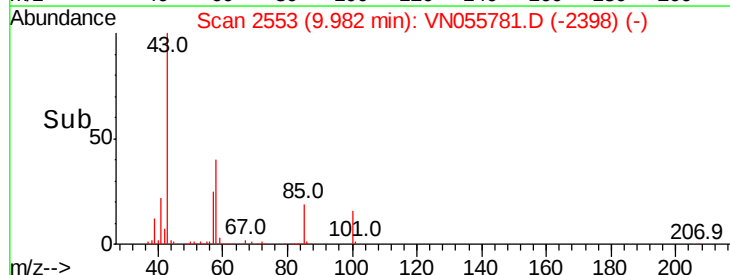
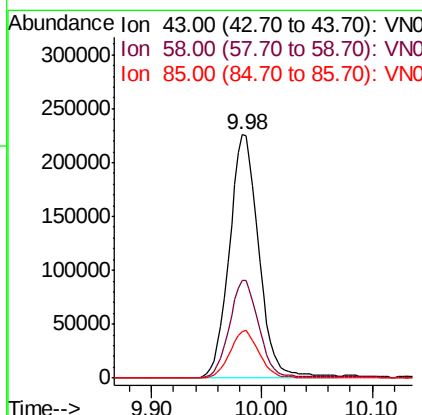
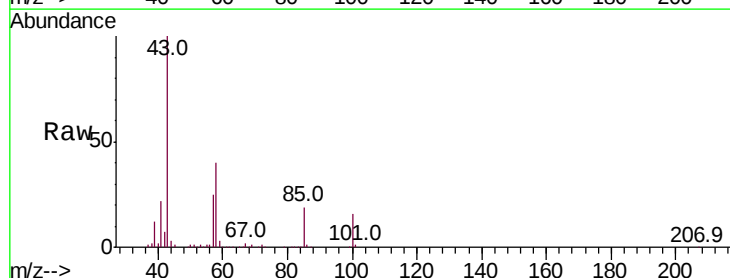
Manual Integrations
APPROVED

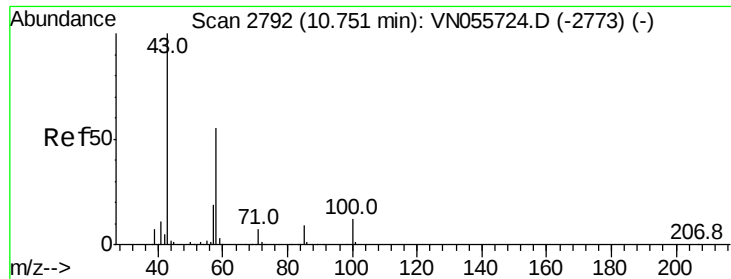
MMDadoda
5/28/2019 10:34:59 AM



#58
4-Methyl-2-Pentanone
Concen: 92.975 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.4	31.7	47.5
85	19.4	14.5	21.7





#59

2-Hexanone

Concen: 95.055 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

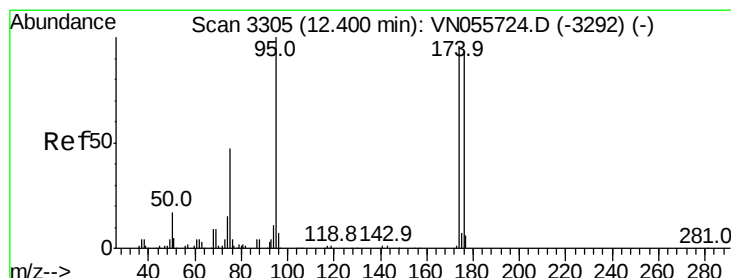
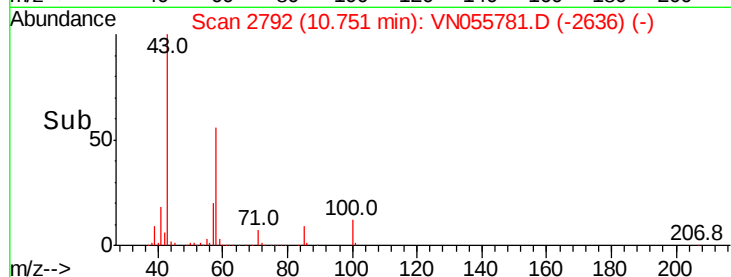
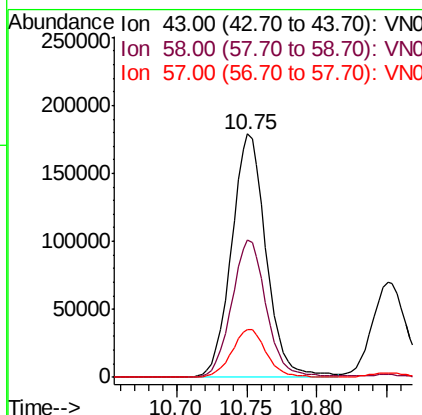
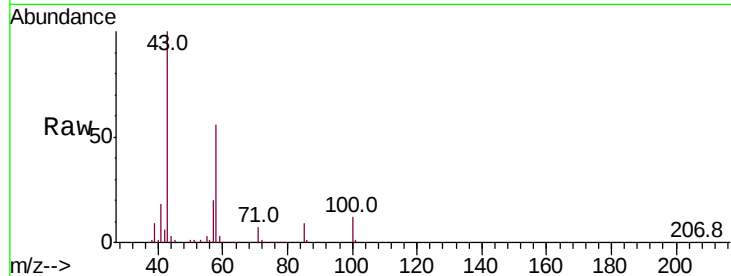
ClientSampleId :

VSTDCCC020

Tot Ion:	43	Resp:	305588
Ion Ratio	Lower	Upper	
43	100		
58	57.1	44.8	67.2
57	19.8	15.3	22.9

Manual Integrations
APPROVED

MMDadoda
5/28/2019 10:34:59 AM



#60

4-Bromofluorobenzene

Concen: 29.517 ug/l

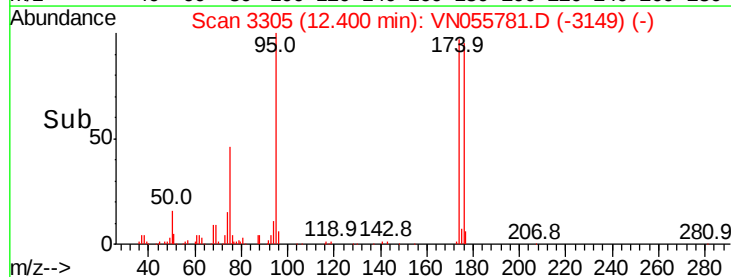
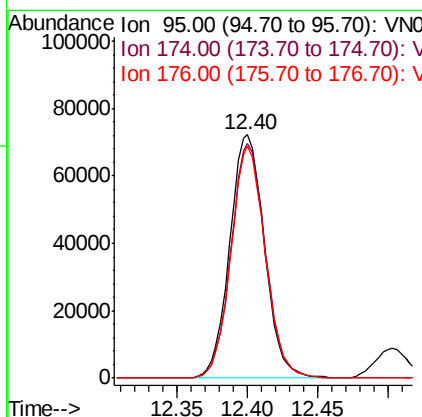
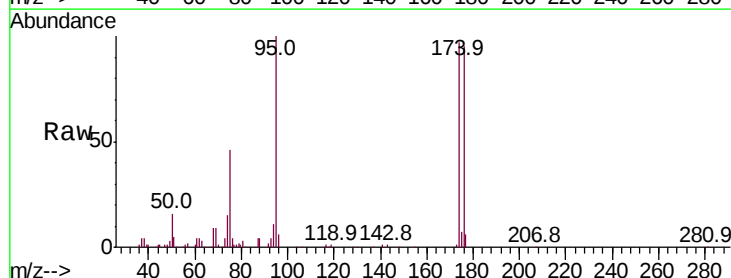
RT: 12.40 min Scan# 3305

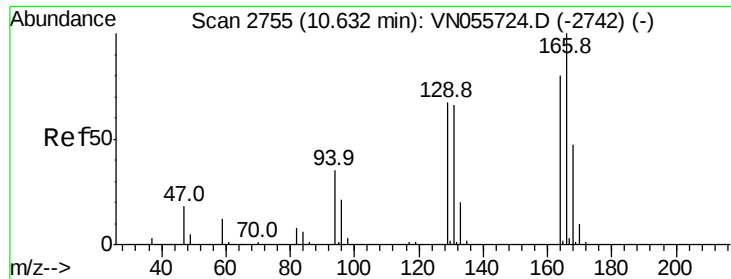
Delta R.T. 0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Tgt Ion:	95	Resp:	124727
Ion Ratio	Lower	Upper	
95	100		
174	95.7	75.7	113.5
176	93.6	74.1	111.1





#61

Tetrachloroethene

Concen: 21.965 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion:164 Resp: 80770

Ion Ratio Lower Upper

164 100

166 130.5 100.6 150.8

129 89.2 67.4 101.2

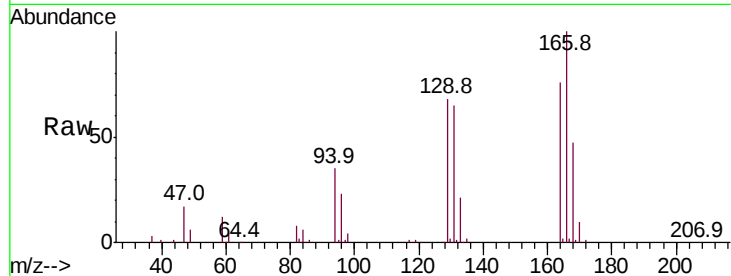
131 85.5 66.6 99.8

Manual Integrations

APPROVED

MMDadoda

5/28/2019 10:34:59 AM



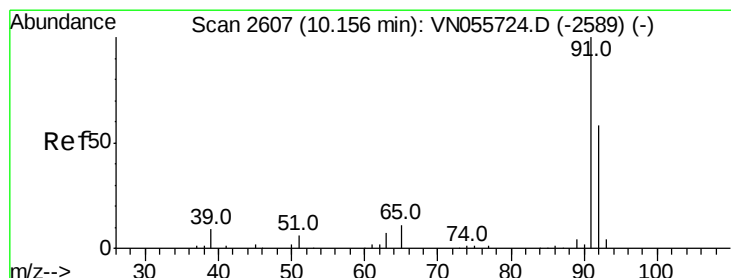
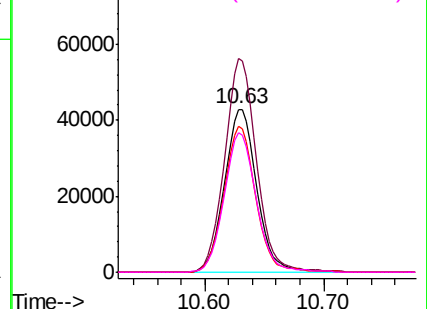
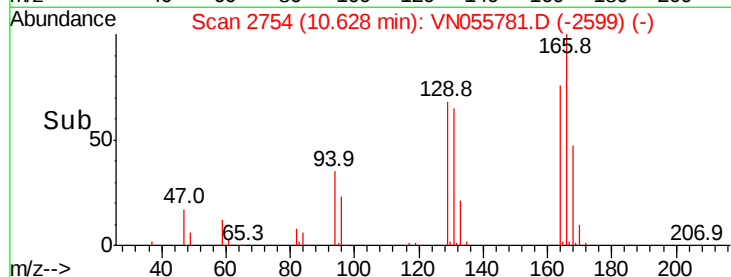
Abundance

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: 20.423 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN055781.D

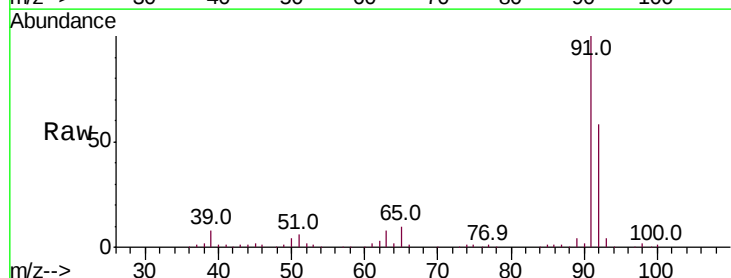
Acq: 24 May 2019 8:56

Tgt Ion: 91 Resp: 298332

Ion Ratio Lower Upper

91 100

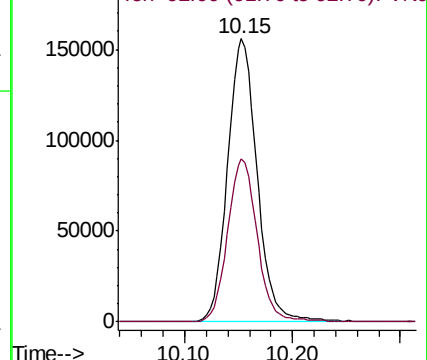
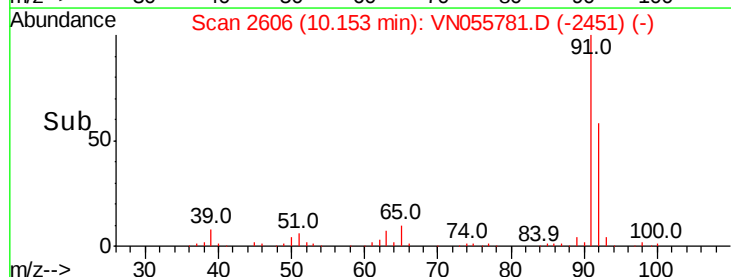
92 57.7 45.6 68.4

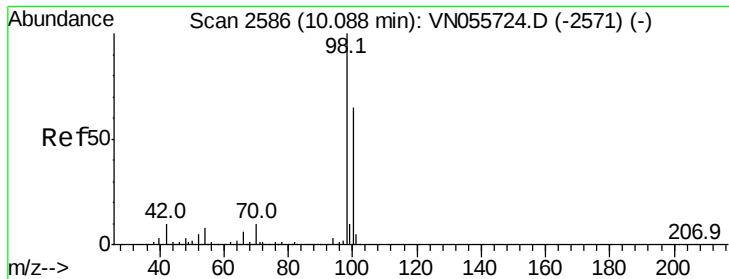


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 29.831 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 98 Resp: 370316

Ion Ratio Lower Upper

98 100

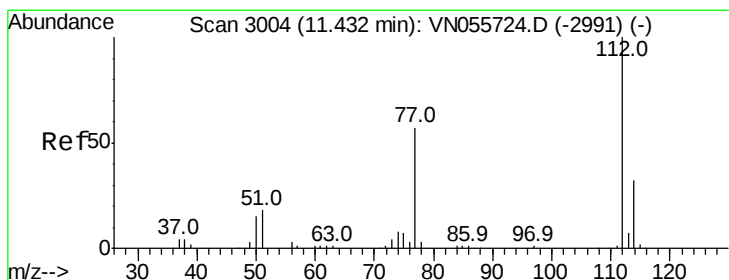
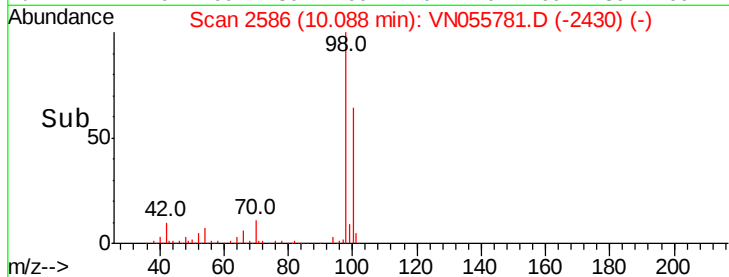
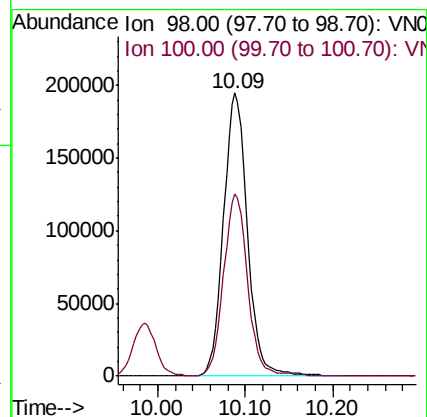
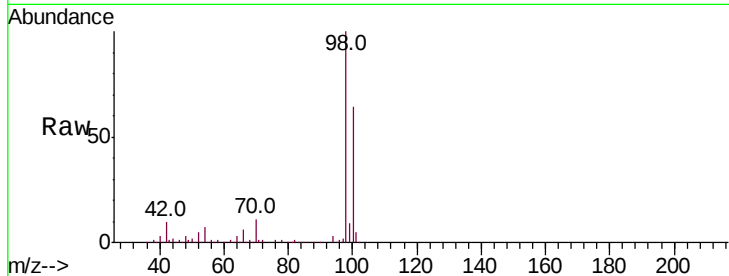
100 64.5 51.6 77.4

Manual Integrations

APPROVED

MMDadoda

5/28/2019 10:34:59 AM



#64

Chlorobenzene

Concen: 20.803 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055781.D

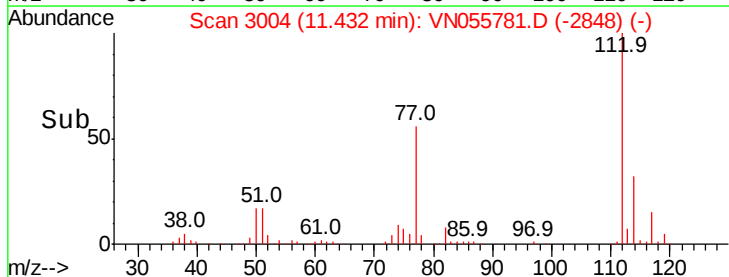
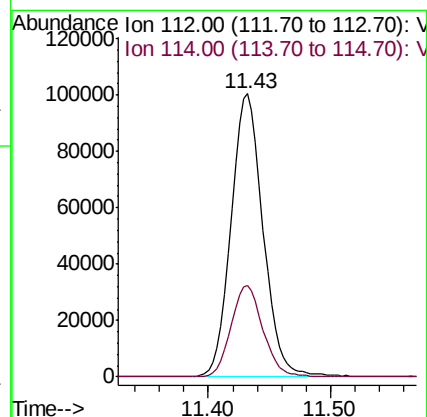
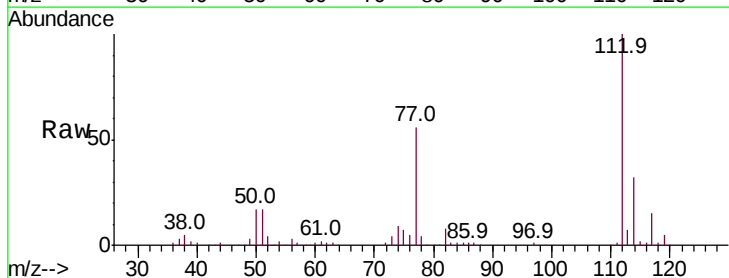
Acq: 24 May 2019 8:56

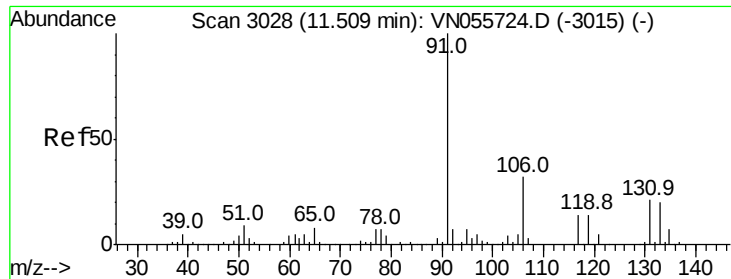
Tgt Ion: 112 Resp: 184336

Ion Ratio Lower Upper

112 100

114 32.2 25.4 38.0





#65

1,1,1,2-Tetrachloroethane

Concen: 19.943 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

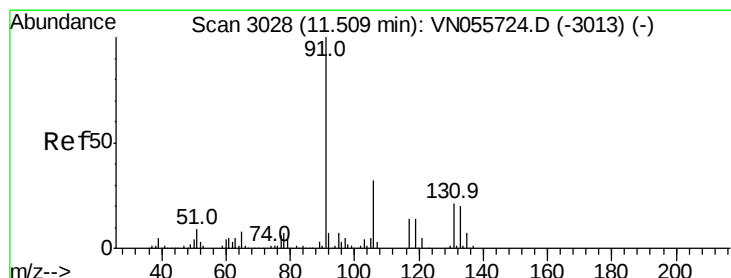
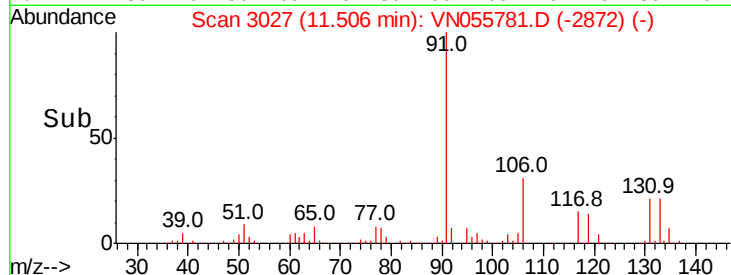
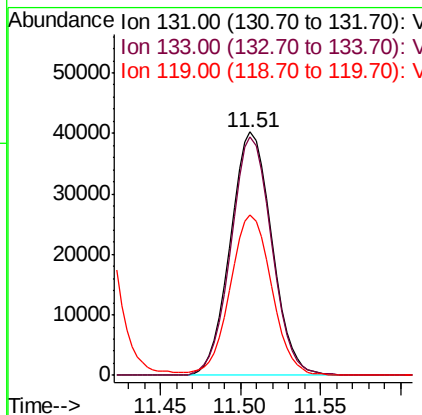
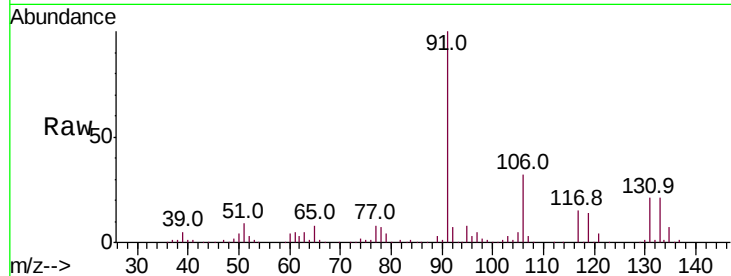
ClientSampled :

VSTDCCC020

Tot Ion	Ratio	Lower	Upper
131	100		
133	96.3	0.0	188.8
119	65.6	0.0	133.6

Manual Integrations
APPROVED

MMDadoda
5/28/2019 10:34:59 AM



#66

Ethyl Benzene

Concen: 20.713 ug/l

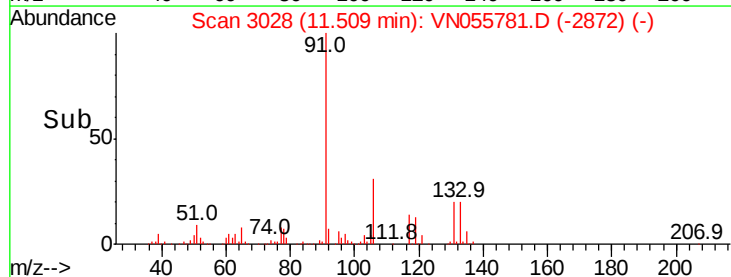
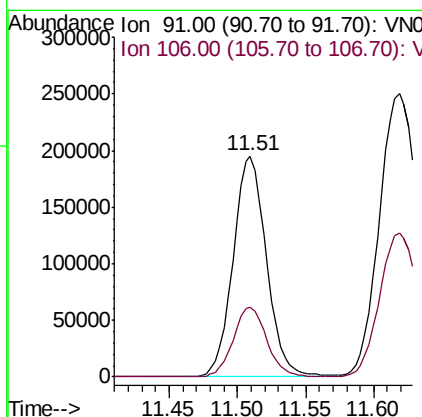
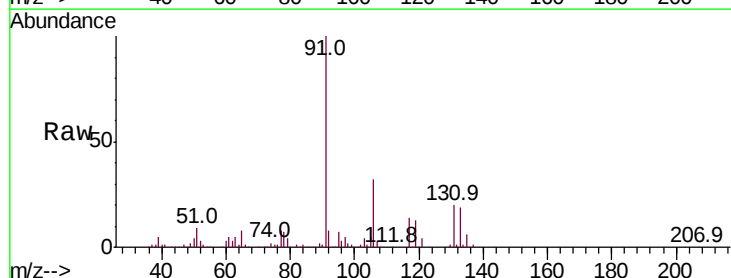
RT: 11.51 min Scan# 3028

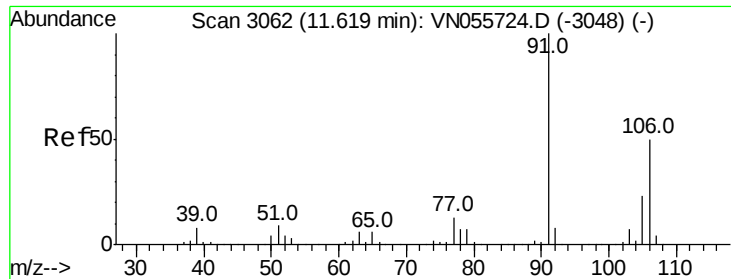
Delta R.T. 0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.6	38.4





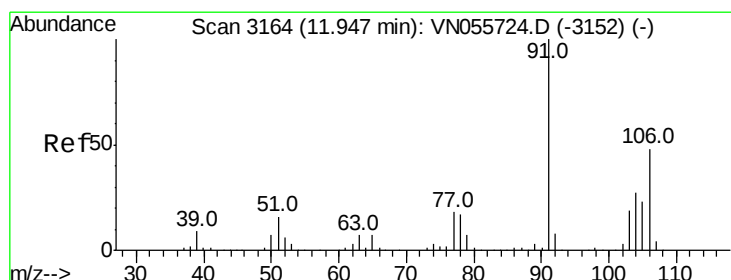
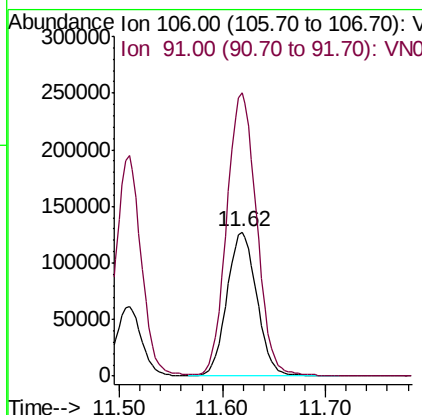
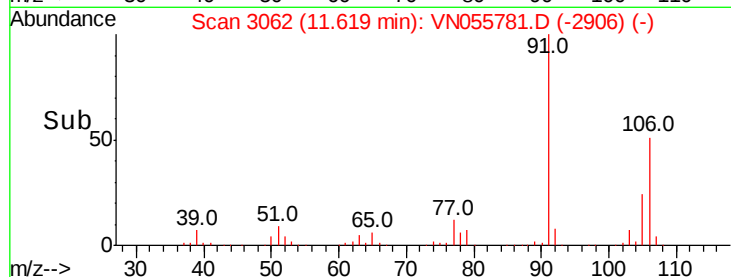
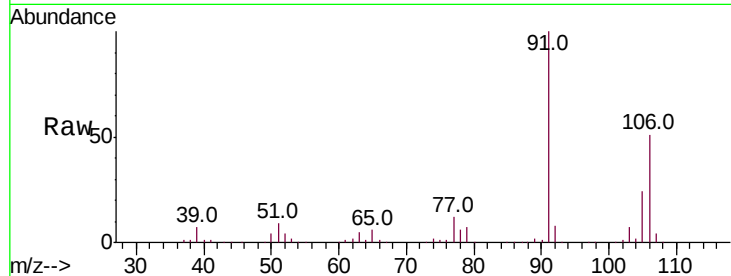
#67
m/p-Xylenes
Concen: 42.322 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion:106 Resp: 256600
Ion Ratio Lower Upper
106 100
91 197.7 159.5 239.3

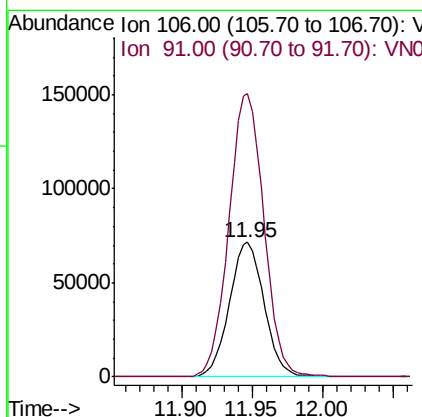
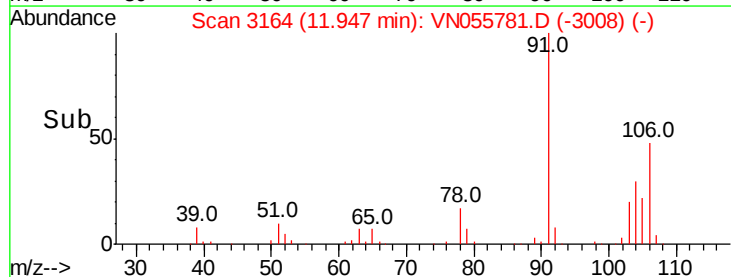
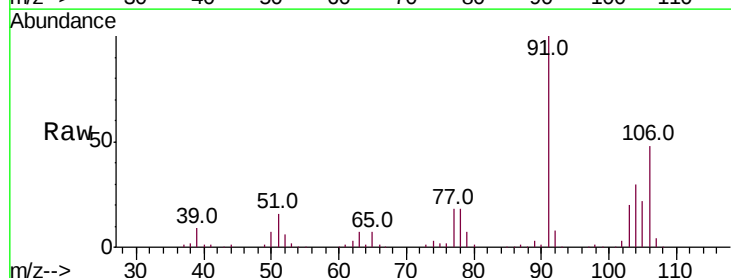
Manual Integrations
APPROVED

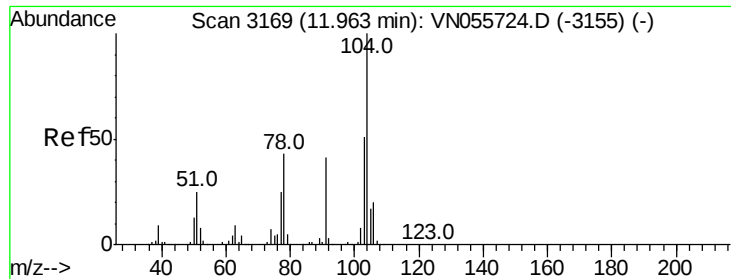
MMDadoda
5/28/2019 10:34:59 AM



#68
o-Xylene
Concen: 20.620 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion:106 Resp: 123717
Ion Ratio Lower Upper
106 100
91 211.8 105.4 316.1





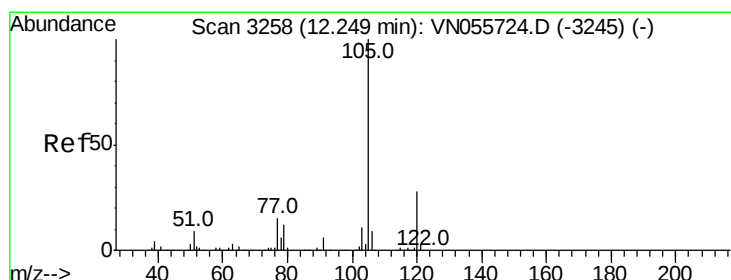
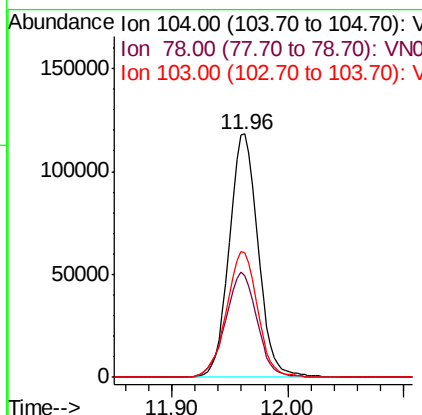
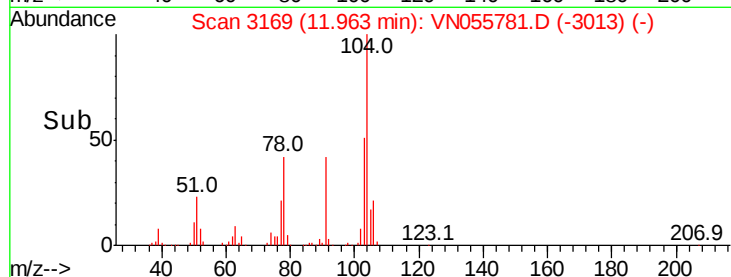
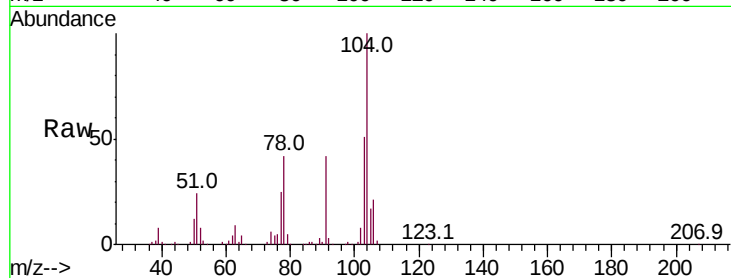
#69
Stvrene
Concen: 20.516 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
104	100		
78	47.2	38.7	58.1
103	56.0	45.0	67.6

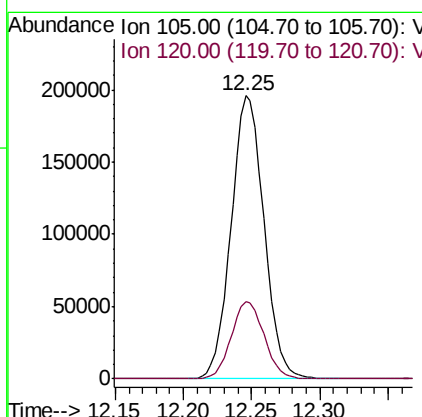
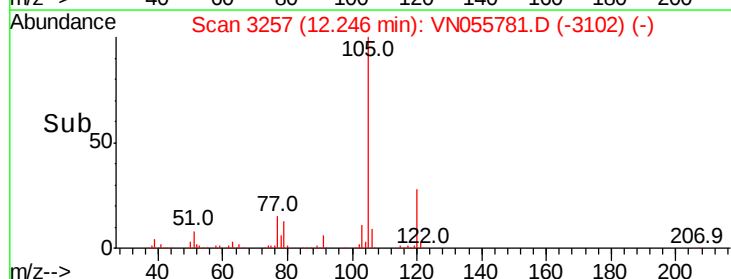
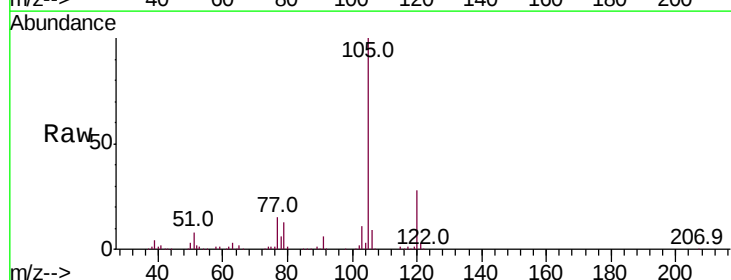
Manual Integrations
APPROVED

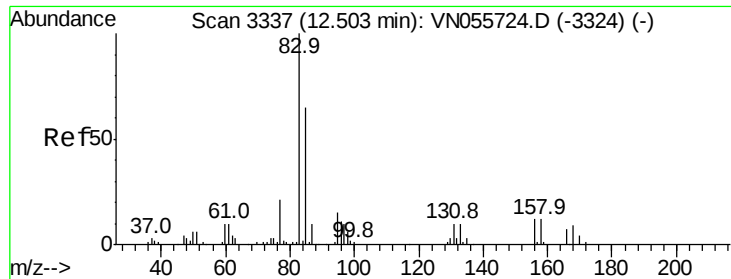
MMDadoda
5/28/2019 10:34:59 AM



#70
Isopropylbenzene
Concen: 20.865 ug/l
RT: 12.25 min Scan# 3257
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.4	19.2	35.6





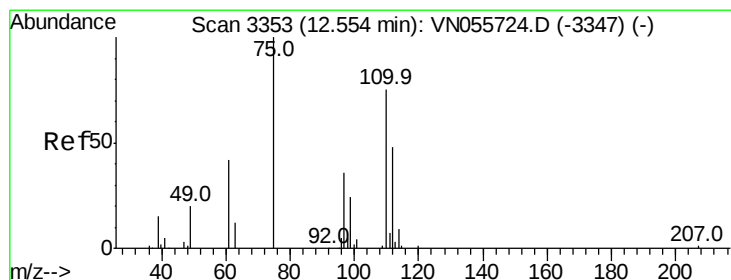
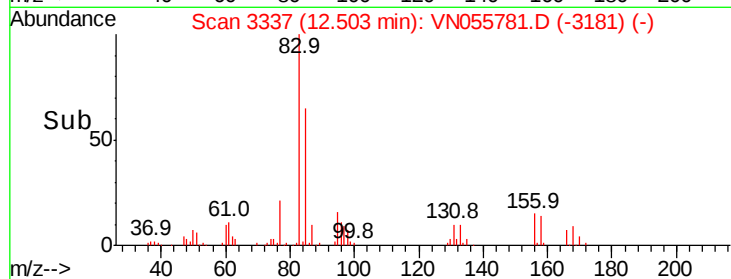
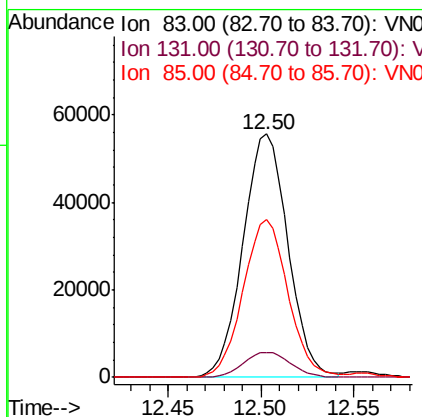
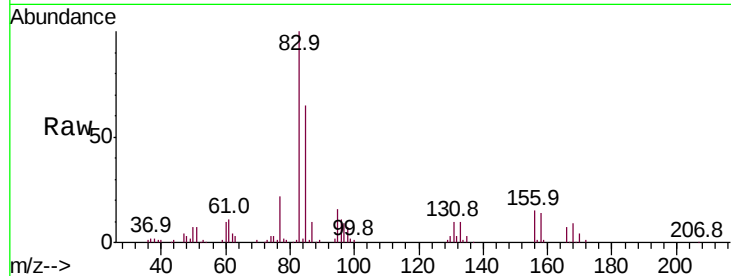
#71
 1,1,2,2-Tetrachloroethane
 Concen: 19.472 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	83	Resp	94071
Ion Ratio	100	Lower	Upper
131	10.9	5.3	15.8
85	64.8	32.3	96.9

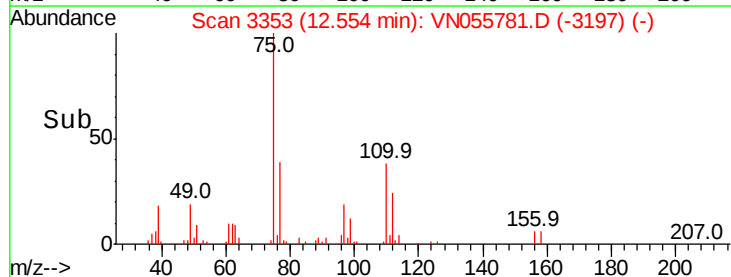
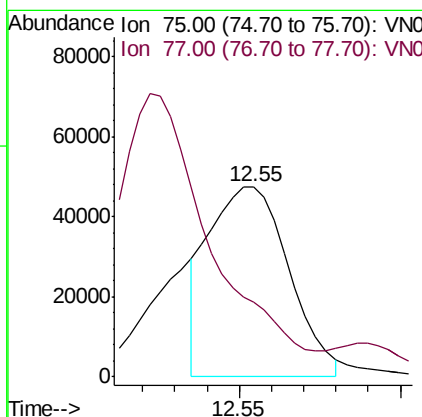
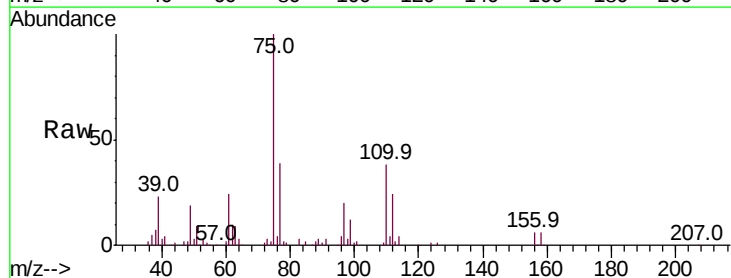
Manual Integrations
 APPROVED

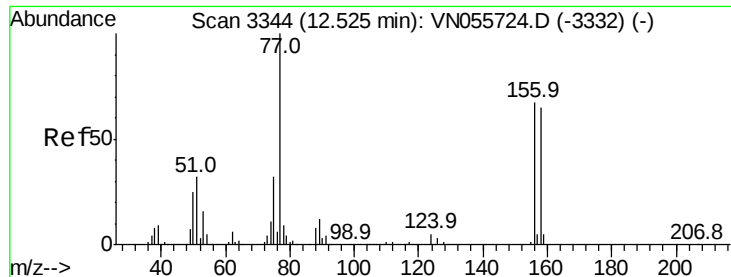
MMDadoda
 5/28/2019 10:34:59 AM



#72
 1,2,3-Trichloropropane
 Concen: 19.676 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Tgt Ion	75	Resp	81811
Ion Ratio	100	Lower	Upper
77	182.7	0.0	349.8





#73

Bromobenzene

Concen: 20.872 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:156 Resp: 86682

Ion Ratio Lower Upper

156 100

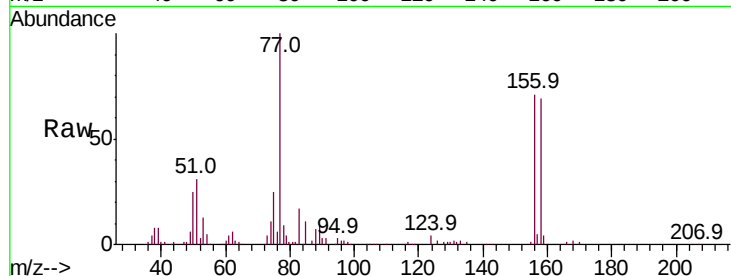
77 172.4 0.0 368.0

158 97.7 0.0 195.0

Manual Integrations
APPROVED

MMDadoda

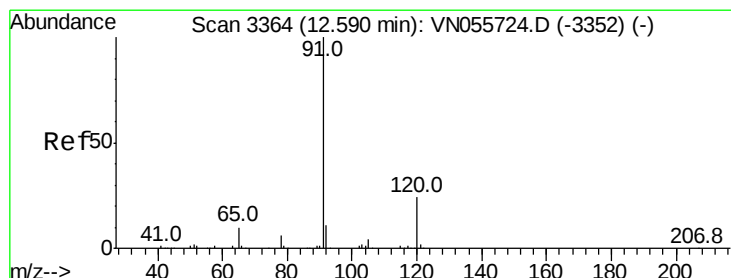
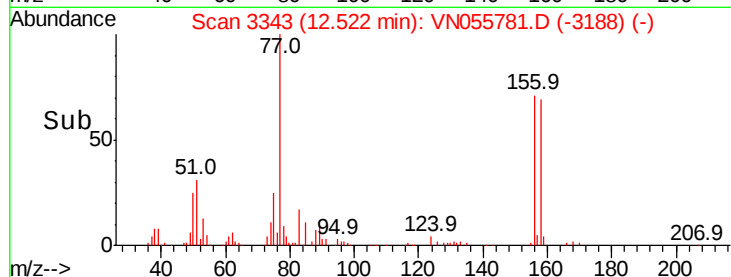
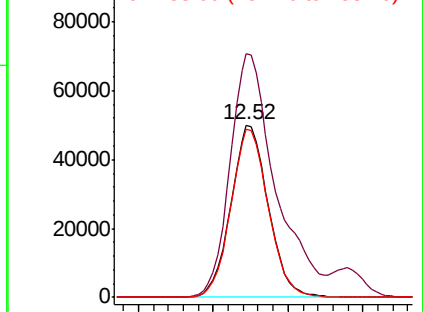
5/28/2019 10:34:59 AM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 20.905 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055781.D

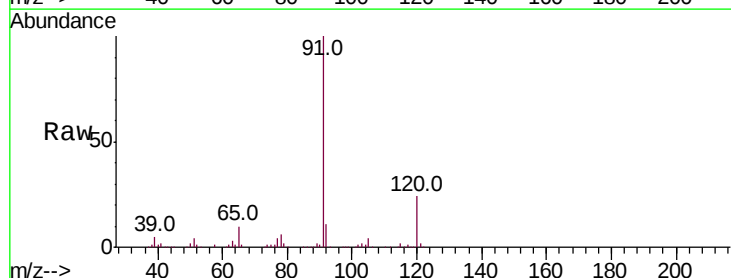
Acq: 24 May 2019 8:56

Tgt Ion: 91 Resp: 353931

Ion Ratio Lower Upper

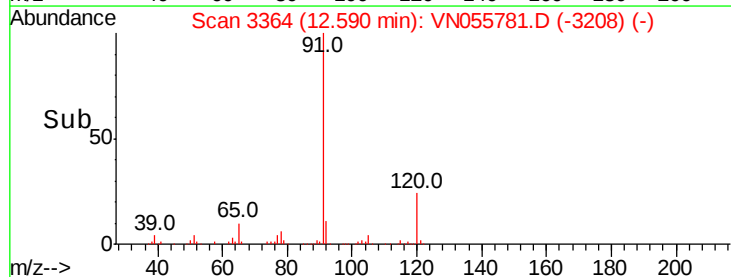
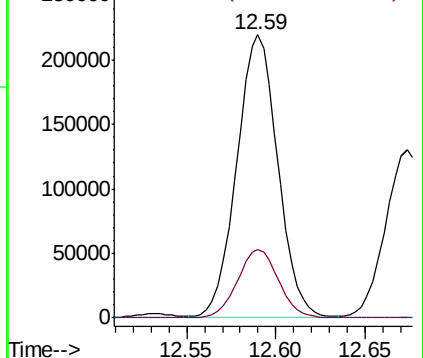
91 100

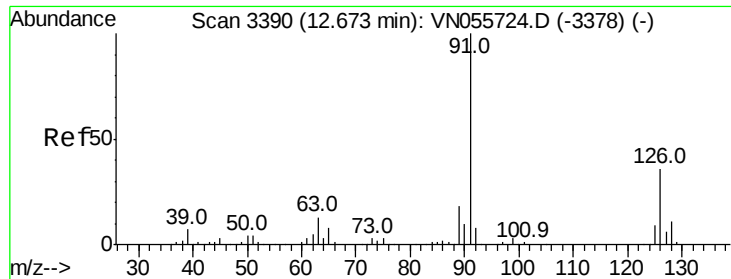
120 24.2 0.0 47.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 21.046 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 91 Resp: 217658

Ion Ratio Lower Upper

91 100

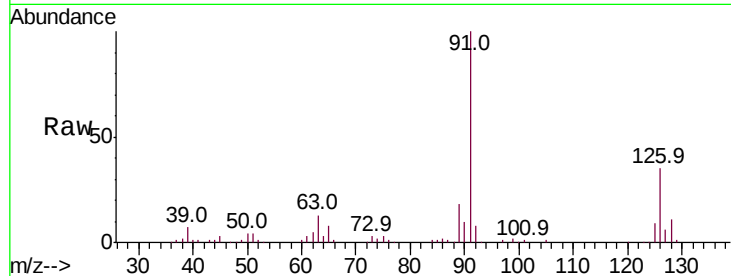
126 34.9 0.0 71.0

Manual Integrations

APPROVED

MMDadoda

5/28/2019 10:34:59 AM



Abundance Ion 91.00 (90.70 to 91.70): VN055724.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN055724.D (-3378) (-)

150000

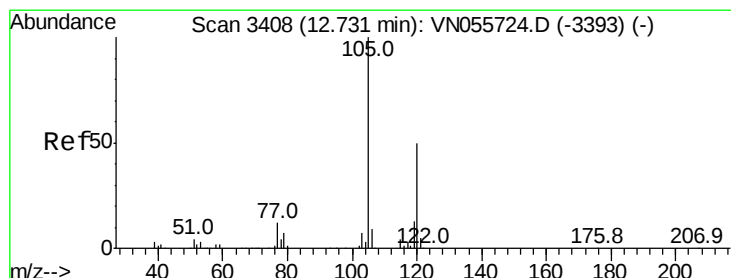
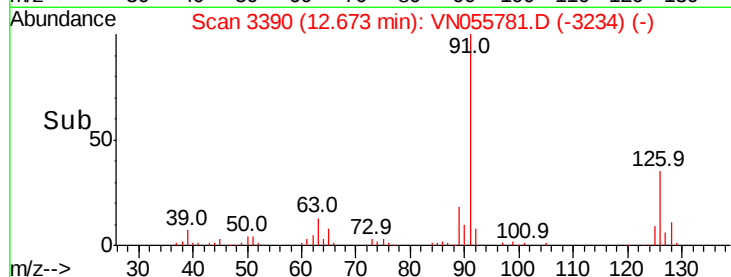
100000

50000

0

12.60 12.65 12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 21.426 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055781.D

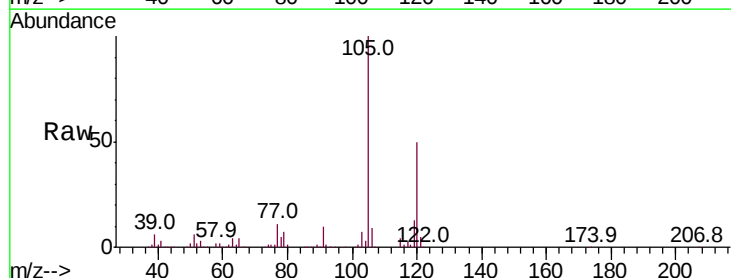
Acq: 24 May 2019 8:56

Tgt Ion:105 Resp: 278015

Ion Ratio Lower Upper

105 100

120 50.0 0.0 99.2



Abundance Ion 105.00 (104.70 to 105.70): VN055724.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN055724.D (-3393) (-)

200000

150000

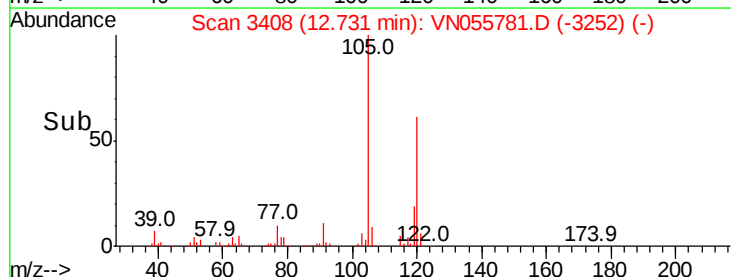
100000

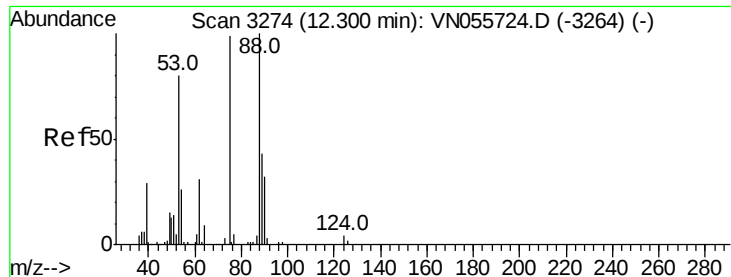
50000

0

12.65 12.70 12.75 12.80

Time-->





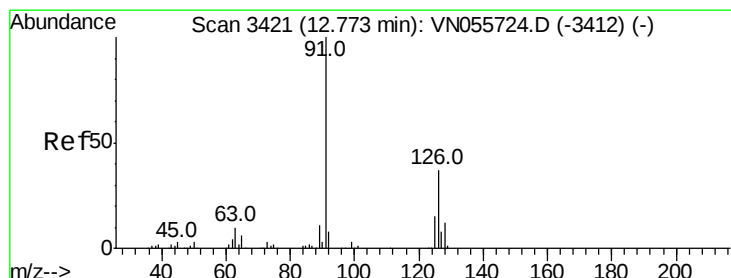
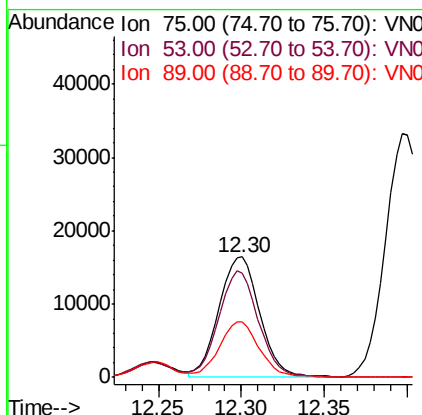
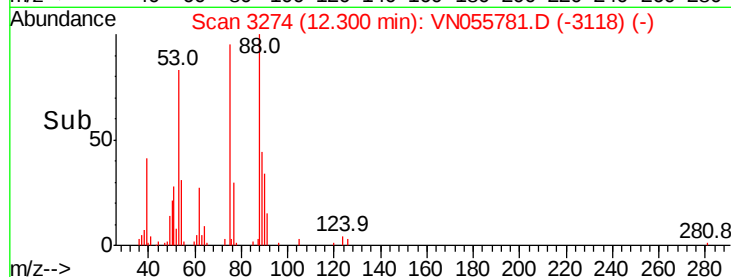
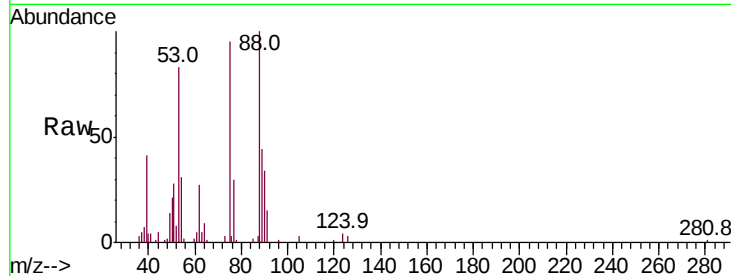
#77
t-1,4-Dichloro-2-butene
Concen: 17.072 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	87.0	40.1	120.3
89	46.2	22.6	67.8

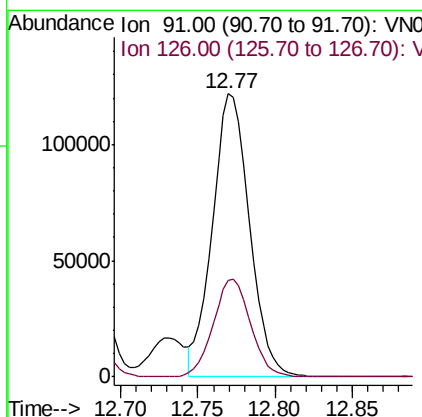
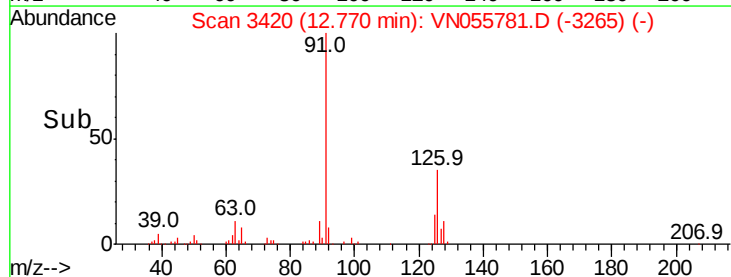
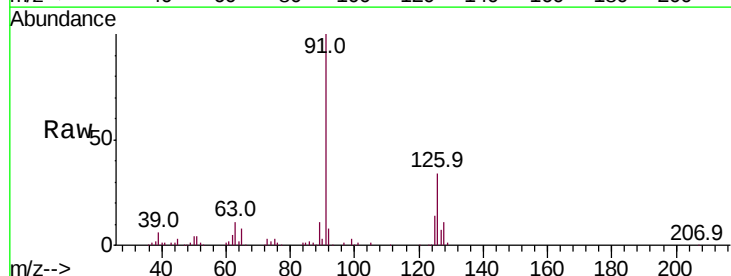
Manual Integrations
APPROVED

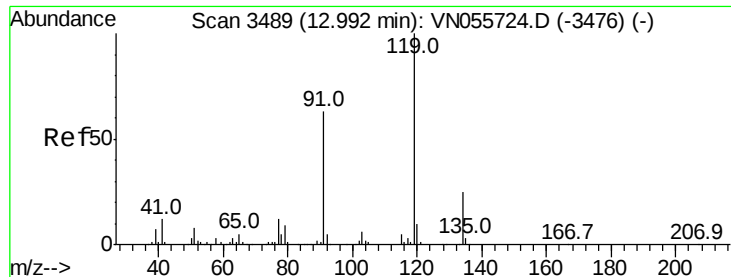
MMDadoda
5/28/2019 10:34:59 AM



#78
4-Chlorotoluene
Concen: 20.749 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	0.0	69.0





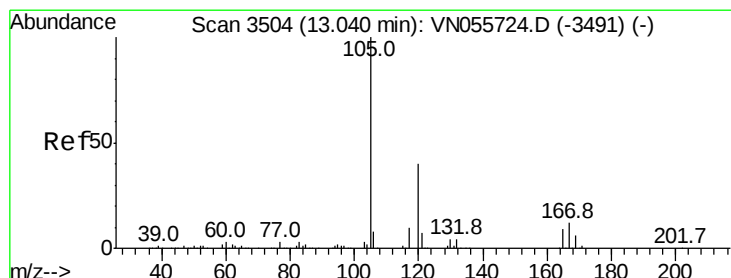
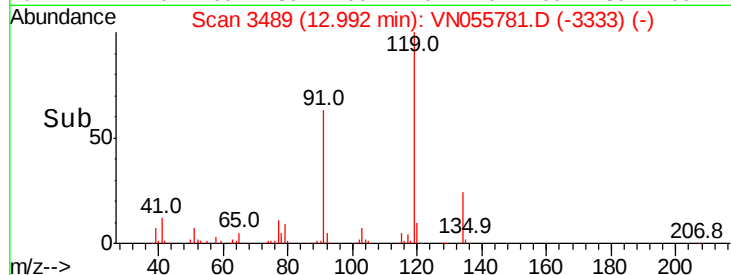
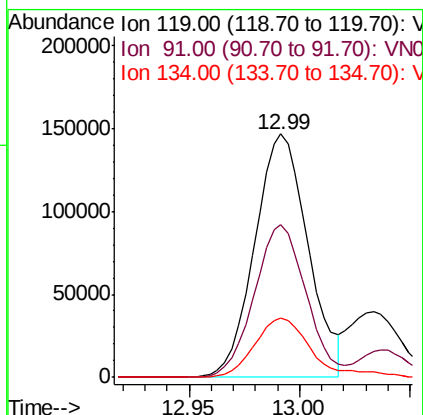
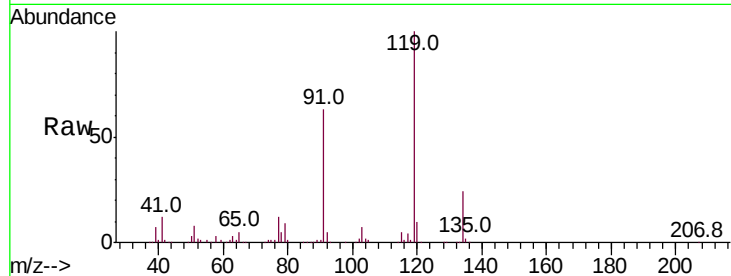
#79
tert-butylbenzene
Concen: 21.578 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	246151		
91	61.2	0.0	123.8	
134	26.1	0.0	52.6	

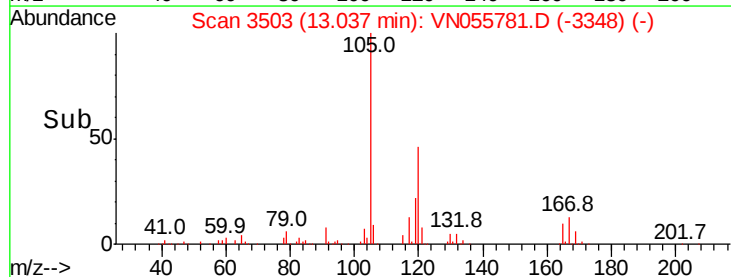
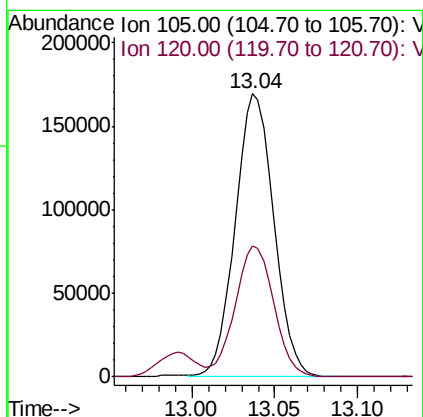
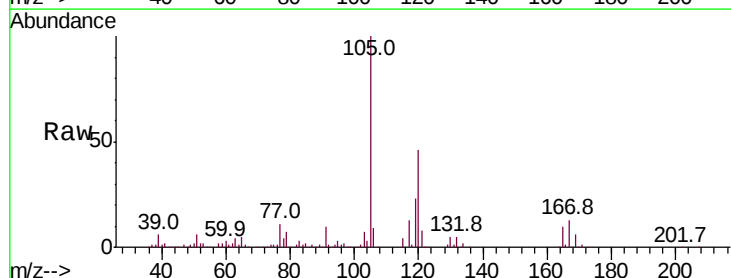
Manual Integrations
APPROVED

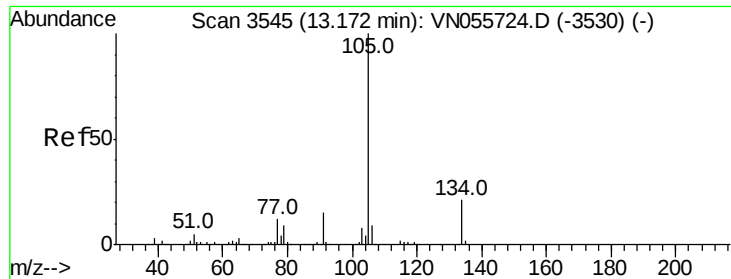
MMDadoda
5/28/2019 10:34:59 AM



#80
1,2,4-Trimethylbenzene
Concen: 21.236 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	273544		
120	46.6	0.0	93.6	





#81

sec-Butylbenzene

Concen: 21.510 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:105 Resp: 311763

Ion Ratio Lower Upper

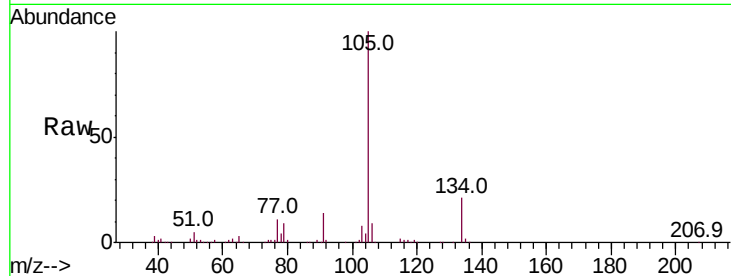
105 100

134 20.9 0.0 41.4

Manual Integrations
APPROVED

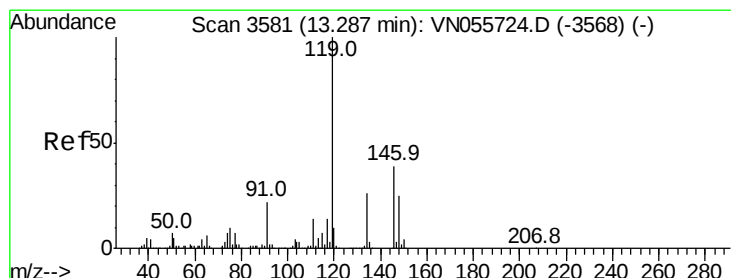
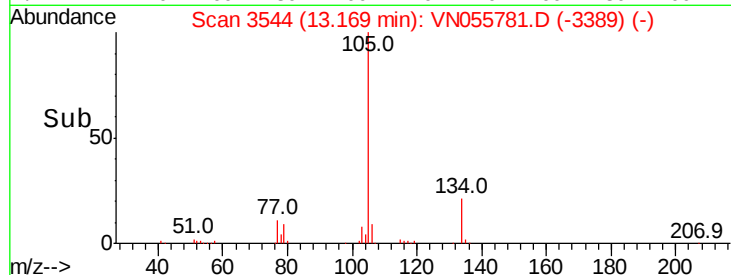
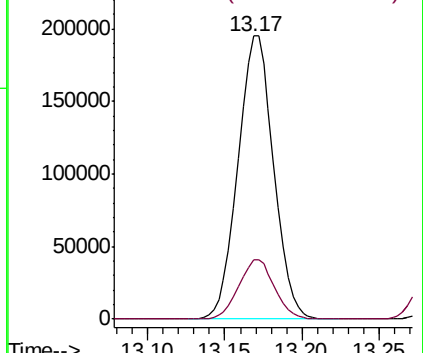
MMDadoda

5/28/2019 10:34:59 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 21.465 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

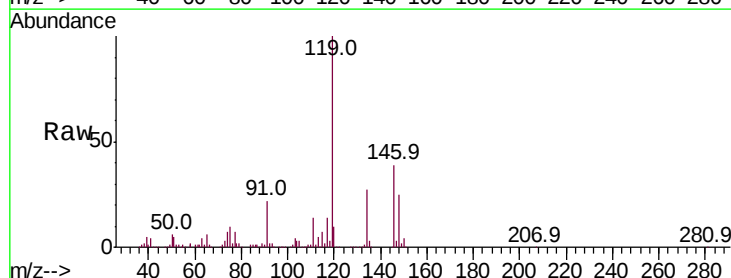
Tgt Ion:119 Resp: 286317

Ion Ratio Lower Upper

119 100

134 26.9 0.0 52.0

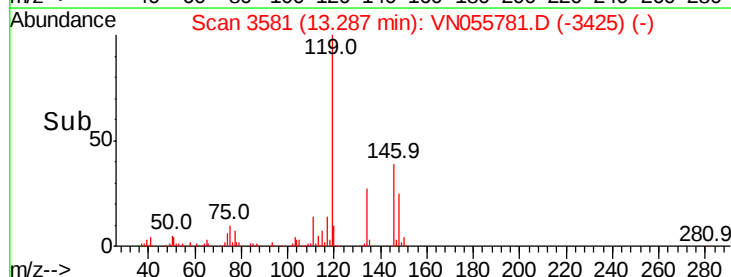
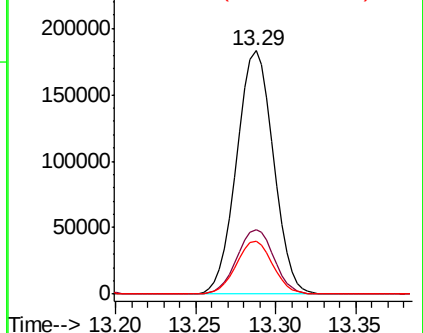
91 21.7 0.0 44.4

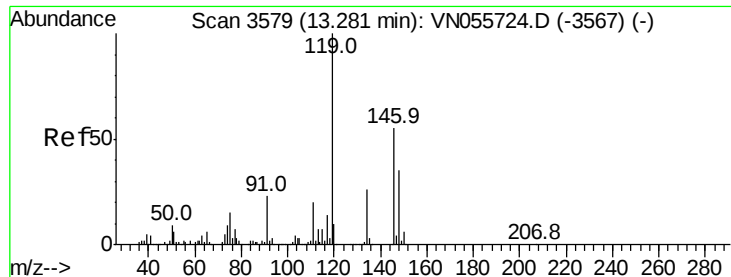


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





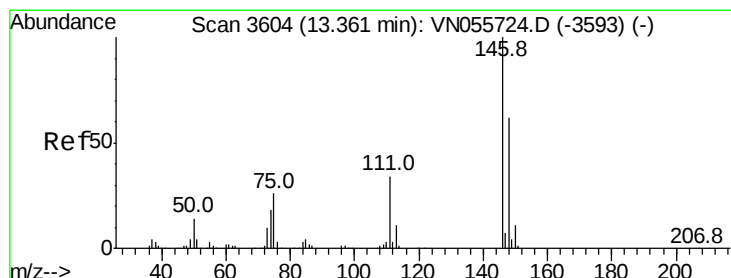
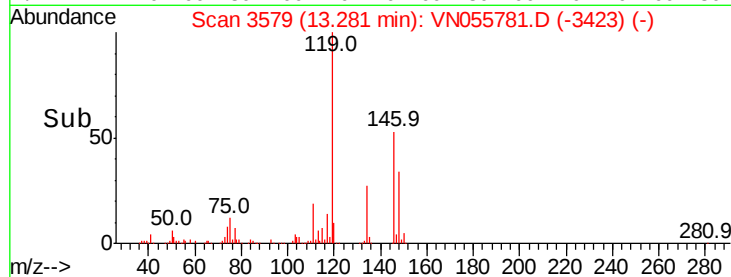
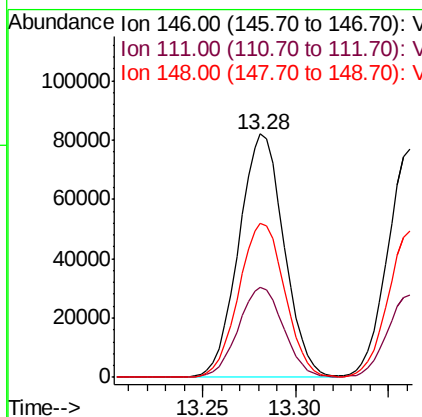
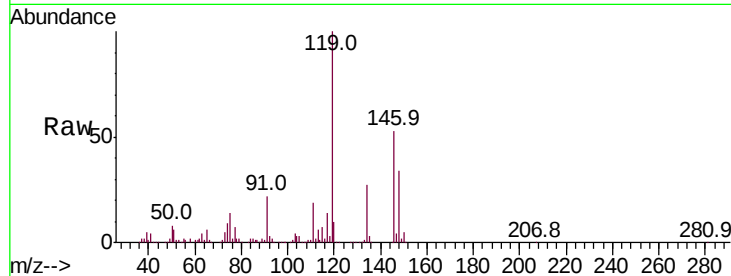
#83
 1,3-Dichlorobenzene
 Concen: 21.338 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	138912		
111	36.9	18.6	55.6	
148	64.4	32.2	96.6	

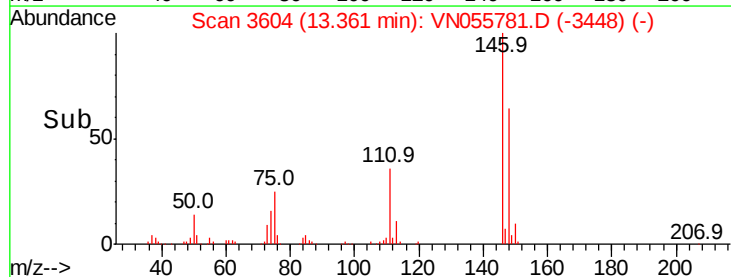
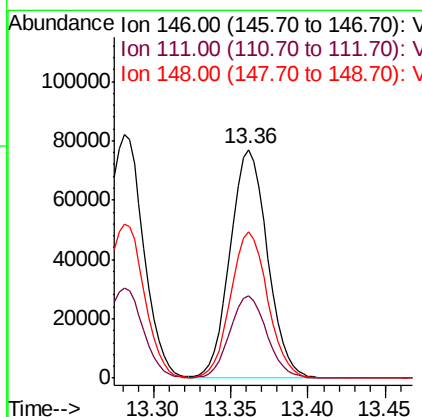
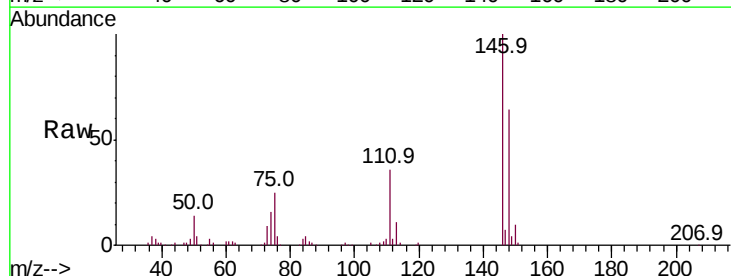
Manual Integrations
 APPROVED

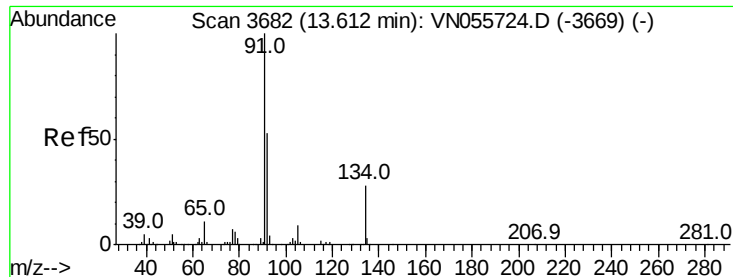
MMDadoda
 5/28/2019 10:34:59 AM



#84
 1,4-Dichlorobenzene
 Concen: 20.848 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	129258		
111	35.6	17.5	52.6	
148	63.4	31.8	95.4	





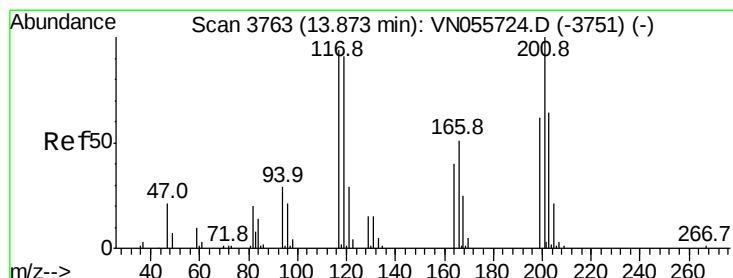
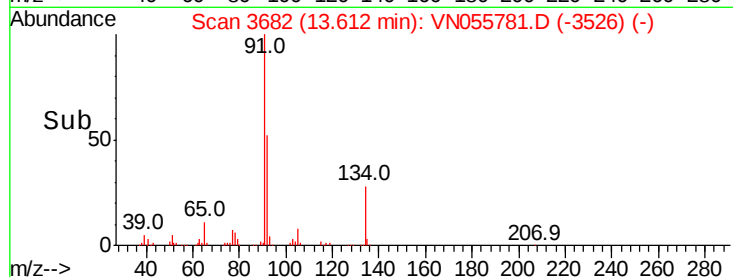
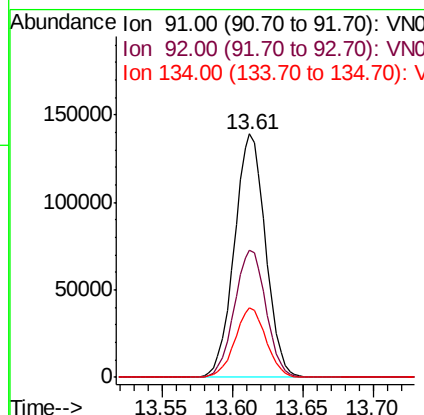
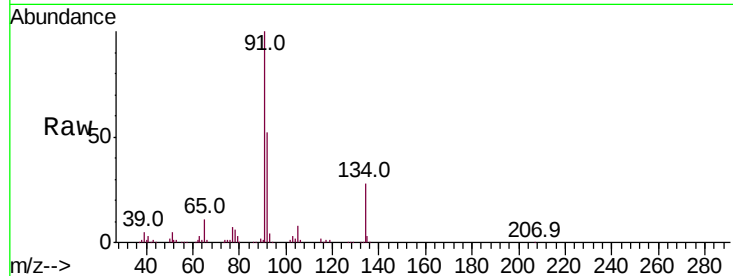
#85
n-Butylbenzene
Concen: 20.793 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
91	100	215774		
92	52.9	0.0	106.8	
134	28.2	0.0	55.2	

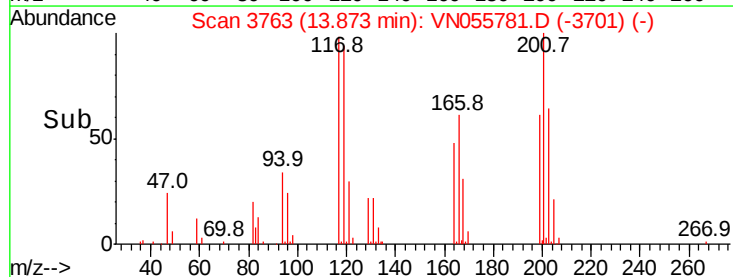
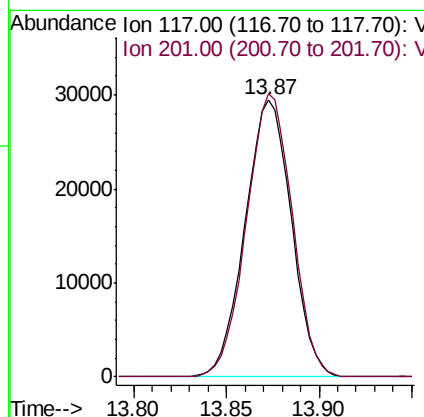
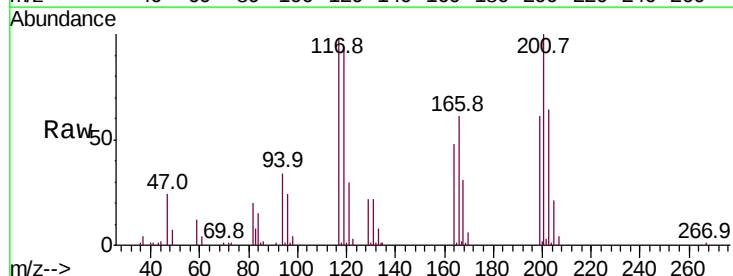
Manual Integrations
APPROVED

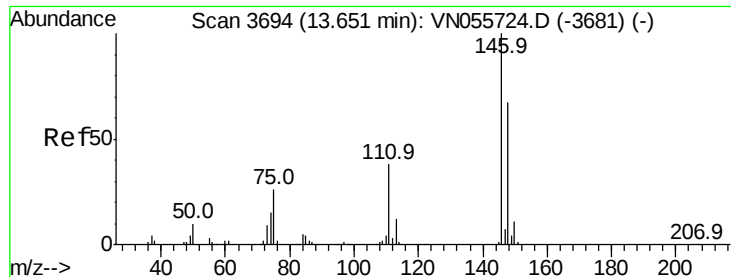
MMDadoda
5/28/2019 10:34:59 AM



#86
Hexachloroethane
Concen: 19.471 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	51084		
201	100.8	52.5	157.6	





#87

1,2-Dichlorobenzene

Concen: 21.138 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Instrument :

MSVOA_N

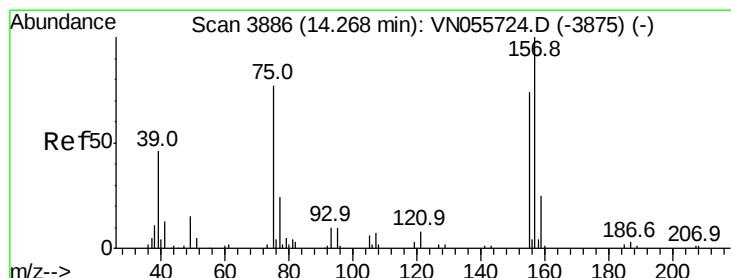
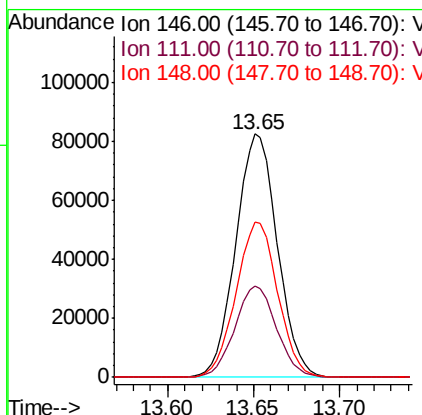
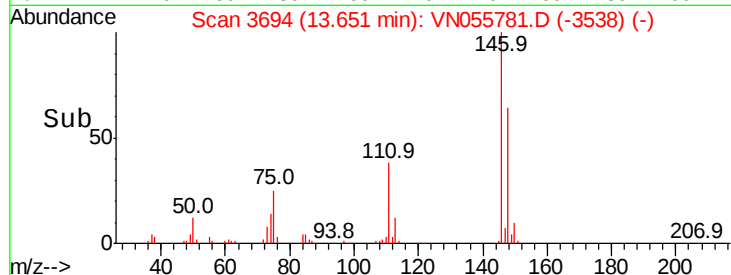
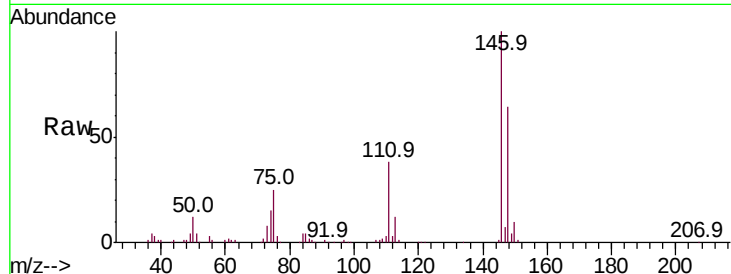
ClientSampled :

VSTDCCC020

Tot Ion:	146	Resp:	138571
Ion Ratio	Lower	Upper	
146	100		
111	37.5	19.2	57.6
148	63.8	32.7	98.1

Manual Integrations
APPROVED

MMDadoda
5/28/2019 10:34:59 AM



#88

1,2-Dibromo-3-Chloropropane

Concen: 17.856 ug/l

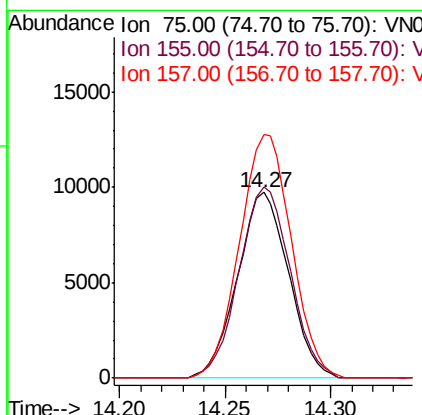
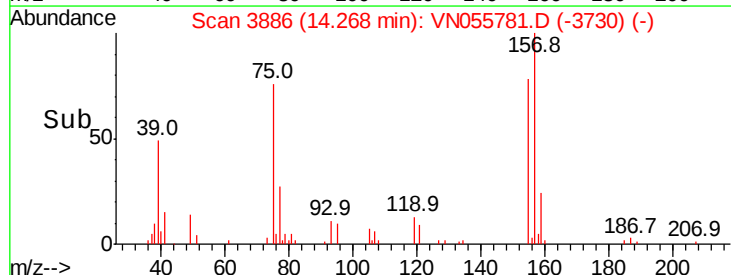
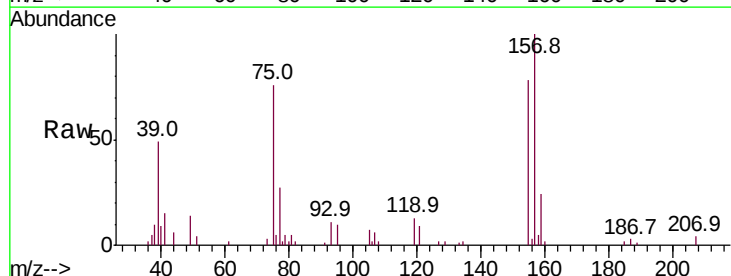
RT: 14.27 min Scan# 3886

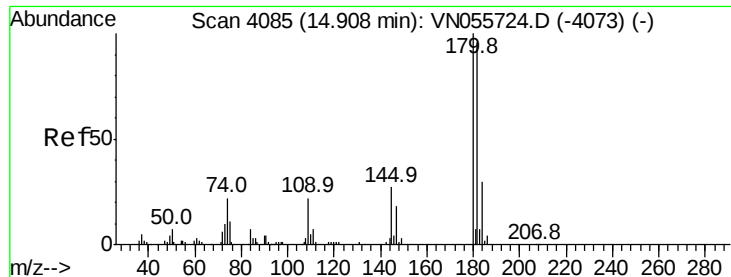
Delta R.T. 0.00 min

Lab File: VN055781.D

Acq: 24 May 2019 8:56

Tgt Ion:	75	Resp:	16350
Ion Ratio	Lower	Upper	
75	100		
155	103.6	78.4	117.6
157	133.6	105.0	157.4





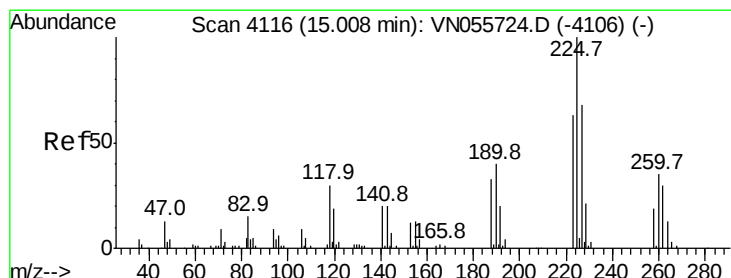
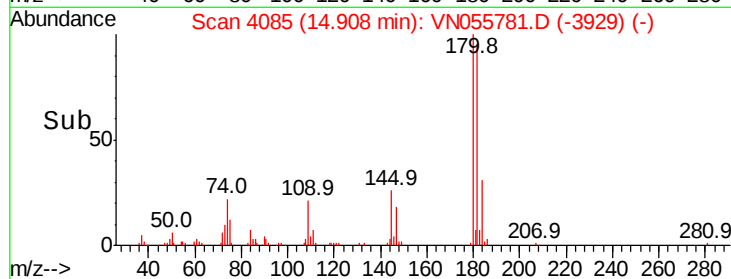
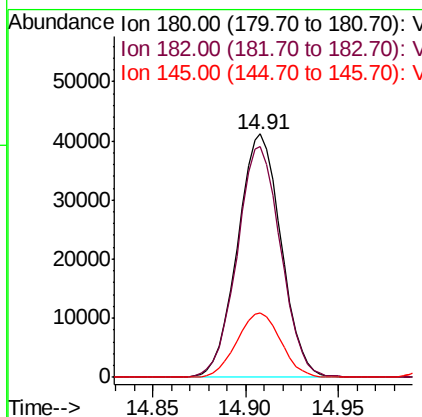
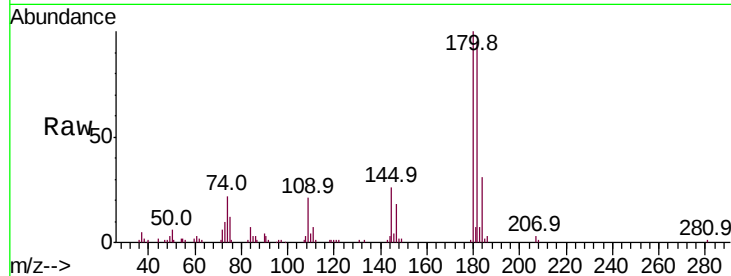
#89
 1,2,4-Trichlorobenzene
 Concen: 19.018 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	67295		
182	95.1	76.1	114.1	
145	26.5	21.8	32.8	

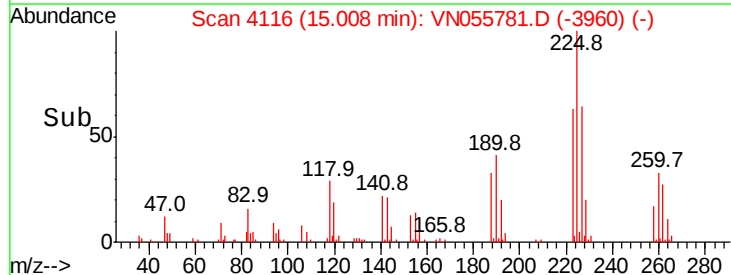
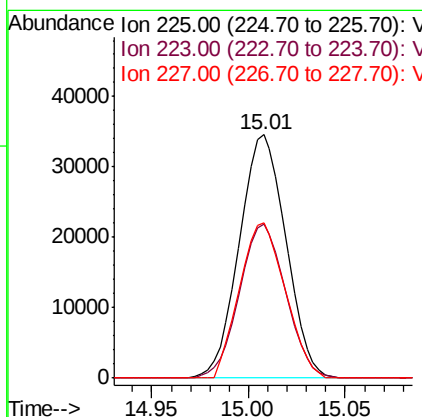
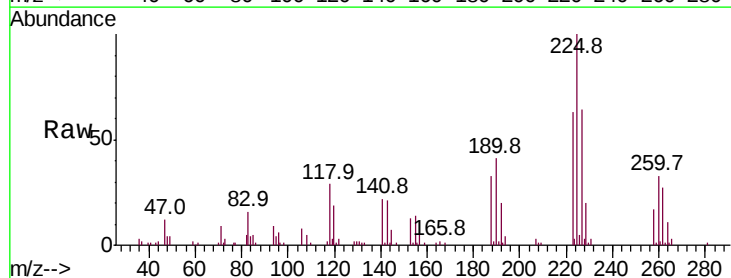
Manual Integrations
 APPROVED

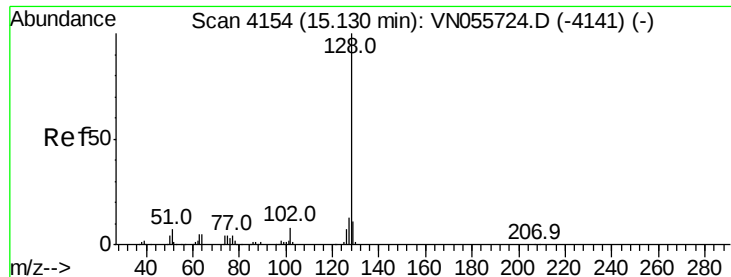
MMDadoda
 5/28/2019 10:34:59 AM



#90
 Hexachlorobutadiene
 Concen: 21.979 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055781.D
 Acq: 24 May 2019 8:56

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	58030		
223	62.6	0.0	126.0	
227	62.6	0.0	133.0	





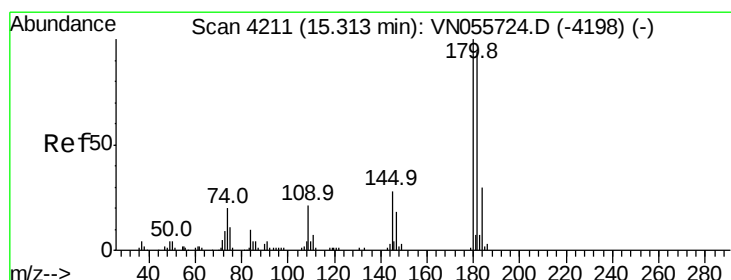
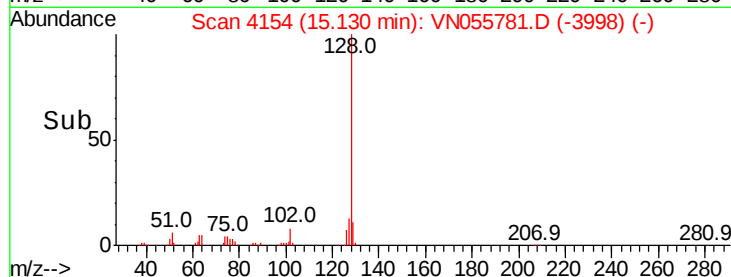
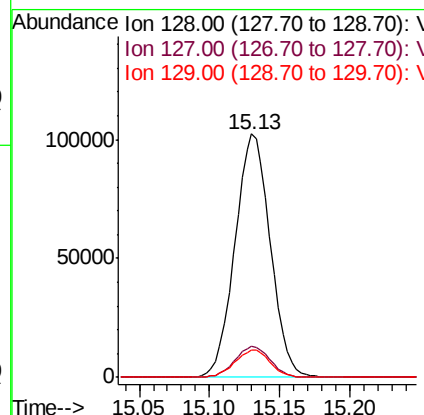
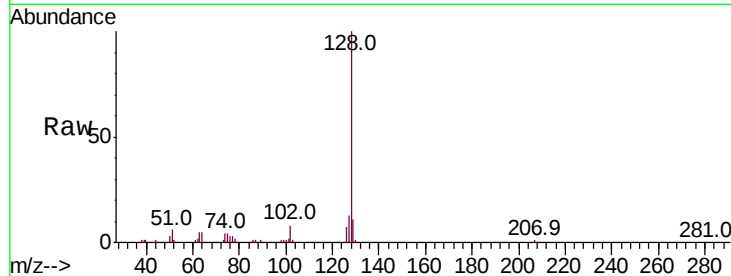
#91
Naphthalene
Concen: 18.583 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion:128	Resp:	179668
Ion Ratio	Lower	Upper
128 100		
127 12.6	10.0	15.0
129 11.1	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
5/28/2019 10:34:59 AM



#92
1,2,3-Trichlorobenzene
Concen: 19.478 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055781.D
Acq: 24 May 2019 8:56

Tgt Ion:180	Resp:	72035
Ion Ratio	Lower	Upper
180 100		
182 94.1	0.0	188.6
145 29.3	0.0	56.8

