

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083019\
 Data File : VN057581.D
 Acq On : 30 Aug 2019 11:15
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN083019

Manual Integrations
 APPROVED

MMDadoda
 8/31/2019 10:00:46 AM

Quant Time: Aug 31 00:10:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N083019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Aug 31 00:00:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	103486	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	634209	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	552555	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	241689	30.31	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.03%
60) 4-Bromofluorobenzene	12.40	95	240421	28.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.40%
63) Toluene-d8	10.09	98	772344	30.18	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	130289	23.672 ug/l	98
3) Chloromethane	2.06	50	106536	21.876 ug/l	98
4) Vinyl Chloride	2.19	62	157035	20.784 ug/l	97
5) Bromomethane	2.56	94	149678	21.565 ug/l	99
6) Chloroethane	2.70	64	98846	19.328 ug/l	95
7) Trichlorofluoromethane	3.01	101	327991	19.646 ug/l	100
8) Diethyl Ether	3.40	74	103892	19.343 ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.74	101	196847	19.700 ug/l	95
10) 1,1-Dichloroethene	3.72	96	177427	19.329 ug/l	99
11) Methyl Iodide	3.93	142	290599	18.313 ug/l	99
12) Methyl Acetate	4.31	43	96716	19.541 ug/l	94
13) Acrolein	3.59	56	58141	92.186 ug/l	93
14) Acrylonitrile	4.98	53	195408	100.489 ug/l #	90
15) Acetone	3.81	58	102593	97.752 ug/l	94
16) Carbon Disulfide	4.03	76	214736	22.422 ug/l	98
17) Allyl chloride	4.30	41	133558	20.392 ug/l	98
18) Methylene Chloride	4.53	84	110871	21.023 ug/l	93
19) trans-1,2-Dichloroethene	5.02	96	109539	20.896 ug/l	97
20) Diisopropyl ether	5.94	45	305828	19.554 ug/l	98
21) 1,1-Dichloroethane	5.83	63	200753	20.330 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	145581	20.839 ug/l	96
23) tert-Butyl Alcohol	4.80	59	74096	102.747 ug/l	100
24) Methyl tert-Butyl Ether	5.03	73	345986	20.482 ug/l	93
25) Chloroform	7.36	83	243985	20.335 ug/l	99
26) Cyclohexane	7.64	56	163597	19.868 ug/l #	91
29) 1,1-Dichloropropene	7.78	75	165198	19.247 ug/l	99
30) 2-Butanone	6.83	43	265035	95.207 ug/l #	95
31) 2,2-Dichloropropane	6.81	77	198156	19.299 ug/l	100
32) 1,1,1-Trichloroethane	7.56	97	218525	18.990 ug/l	98
33) Carbon Tetrachloride	7.76	117	185172	18.966 ug/l	95
34) Benzene	8.03	78	499186	19.399 ug/l	99
35) Methacrylonitrile	7.16	41	46807	16.988 ug/l	93
36) 1,2-Dichloroethane	8.11	62	182620	19.235 ug/l	100
37) Trichloroethene	8.83	130	149041	19.998 ug/l	97
38) Methylcyclohexane	9.07	83	207347	19.834 ug/l	98
39) 1,2-Dichloropropane	9.11	63	119852	19.035 ug/l	96
40) Dibromomethane	9.20	93	96291	19.863 ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083019\
 Data File : VN057581.D
 Acq On : 30 Aug 2019 11:15
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 ICVVN083019

Manual Integrations
 APPROVED

MMDadoda
 8/31/2019 10:00:46 AM

Quant Time: Aug 31 00:10:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N083019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Aug 31 00:00:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	186179	18.746	ug/l	99
42) Vinyl Acetate	5.88	43	1216260	98.341	ug/l	98
43) Ethyl Acetate	6.92	43	100660	18.749	ug/l	100
44) Isopropyl Acetate	8.16	43	199299	18.557	ug/l	99
45) 1,4-Dioxane	9.20	88	38726	418.781	ug/l	96
46) Methyl methacrylate	9.19	41	86515	17.369	ug/l	87
47) n-amyl Acetate	12.07	43	162151	18.237	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	181870	18.448	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	199510	18.686	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	127976	18.497	ug/l	98
51) Ethyl methacrylate	10.43	69	168029	18.659	ug/l	87
52) 1,3-Dichloropropane	10.71	76	201812	18.720	ug/l	98
53) Dibromochloromethane	10.90	129	141436	18.156	ug/l	100
54) 1,2-Dibromoethane	11.00	107	135428	18.885	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	197104	89.174	ug/l	97
56) Bromoform	12.13	173	87301	17.138	ug/l #	97
58) 4-Methyl-2-Pentanone	9.98	43	557046	99.765	ug/l	97
59) 2-Hexanone	10.75	43	380498	96.380	ug/l	93
61) Tetrachloroethene	10.63	164	138931	19.667	ug/l	99
62) Toluene	10.15	91	584139	20.849	ug/l	99
64) Chlorobenzene	11.43	112	357787	19.830	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	138868	19.395	ug/l	98
66) Ethyl Benzene	11.51	91	641228	21.274	ug/l	99
67) m/p-Xylenes	11.62	106	476990	39.553	ug/l	100
68) o-Xylene	11.95	106	232076	19.153	ug/l	98
69) Styrene	11.96	104	377295	19.646	ug/l	98
70) Isopropylbenzene	12.25	105	640082	21.074	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	157836	19.537	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	133839m	19.515	ug/l	
73) Bromobenzene	12.53	156	150931	19.439	ug/l	96
74) n-propylbenzene	12.59	91	671190	21.437	ug/l	100
75) 2-Chlorotoluene	12.68	91	406950	20.123	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	539365	20.985	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	38986	17.948	ug/l	95
78) 4-Chlorotoluene	12.78	91	390041	20.049	ug/l	99
79) tert-butylbenzene	12.99	119	472285	20.105	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	517297	21.350	ug/l	98
81) sec-Butylbenzene	13.17	105	598367	20.954	ug/l	100
82) p-Isopropyltoluene	13.29	119	519460	20.513	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	242562	19.314	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	236950	19.671	ug/l	98
85) n-Butylbenzene	13.62	91	404179	20.494	ug/l	98
86) Hexachloroethane	13.88	117	88291	18.232	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	246362	20.410	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	22829	18.817	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	101416	22.801	ug/l	99
90) Hexachlorobutadiene	15.01	225	84666	22.131	ug/l	96
91) Naphthalene	15.13	128	284135	22.952	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	102320	23.221	ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN083019\
Data File : VN057581.D
Acq On : 30 Aug 2019 11:15
Operator : JC/SP
Sample : VSTDICV020
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

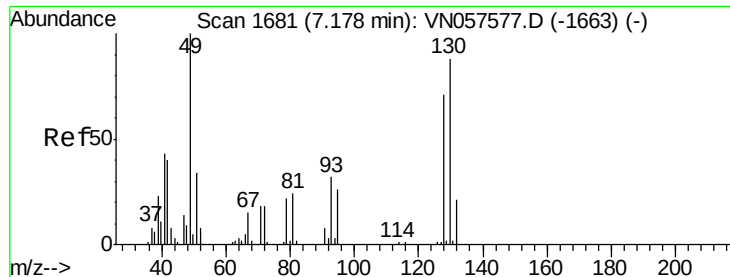
Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM

Quant Time: Aug 31 00:10:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N083019W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Aug 31 00:00:09 2019
Response via : Initial Calibration

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

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

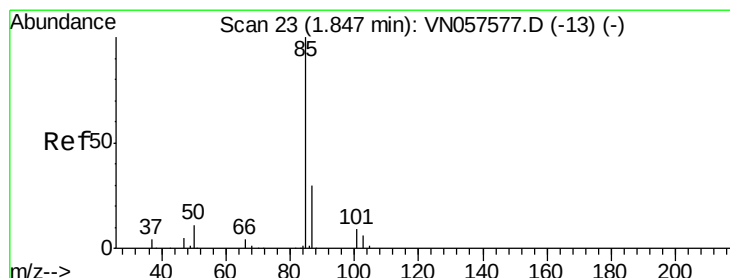
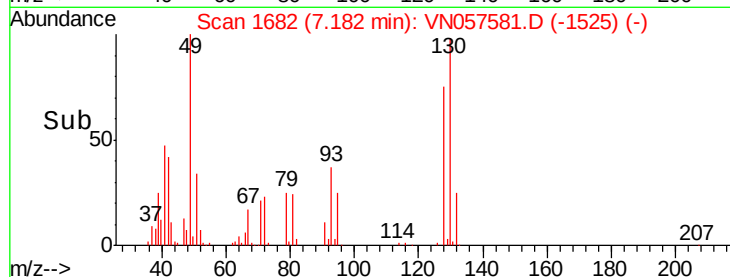
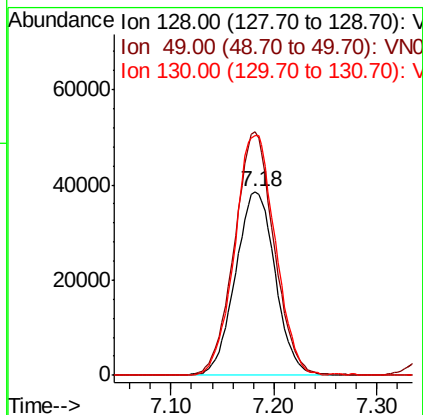
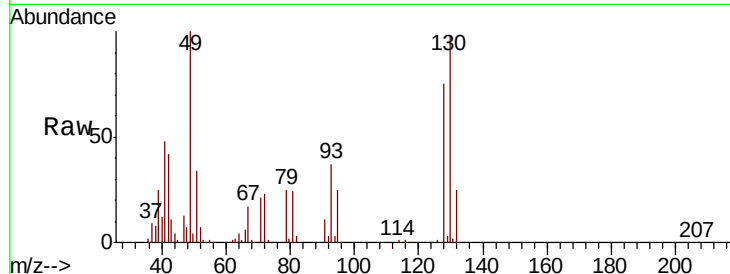
ClientSampleId :

ICVVN083019

Tgt Ion:	128	Resp:	103486
Ion Ratio	Lower	Upper	
128	100		
49	132.1	0.0	352.3
130	133.3	0.0	324.7

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM



#2

Dichlorodifluoromethane

Concen: 23.672 ug/l

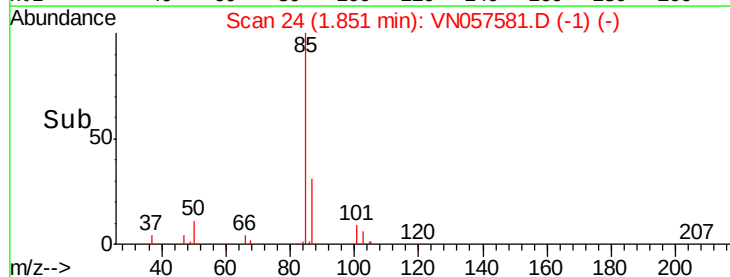
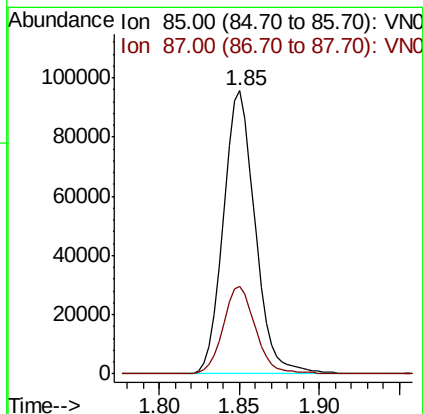
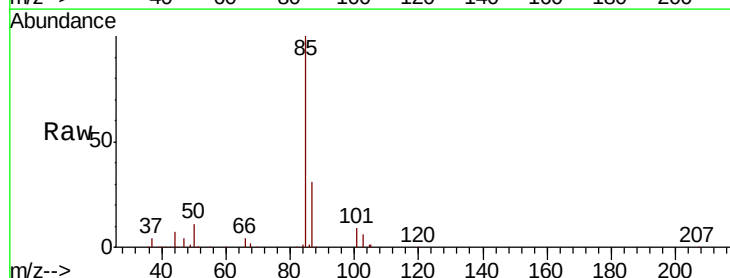
RT: 1.85 min Scan# 24

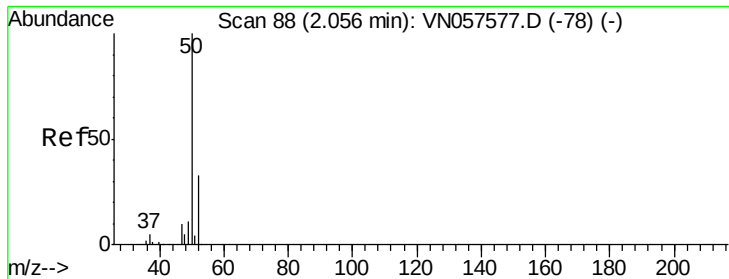
Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Tgt Ion:	85	Resp:	130289
Ion Ratio	Lower	Upper	
85	100		
87	31.1	15.0	45.0





#3

Chloromethane

Concen: 21.876 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

ClientSampleId :

ICVVN083019

Tgt Ion: 50 Resp: 106536

Ion Ratio Lower Upper

50 100

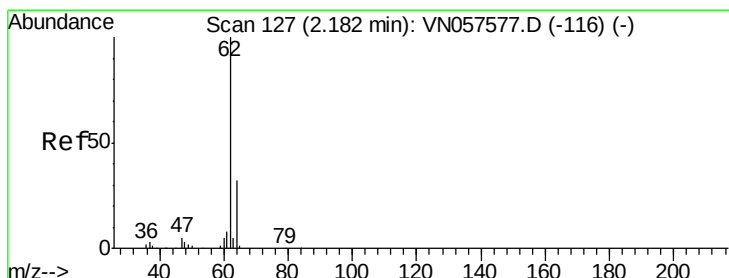
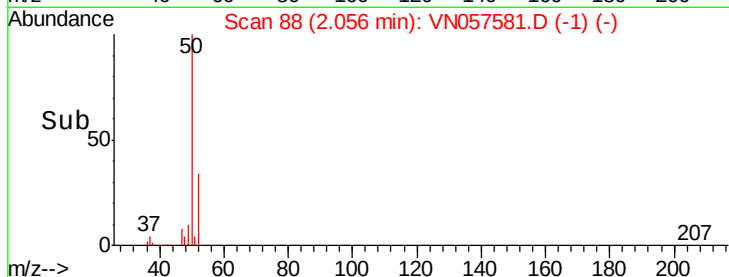
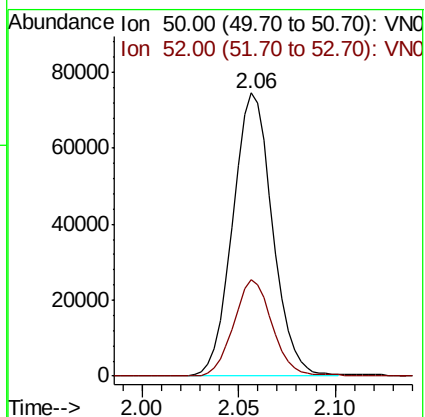
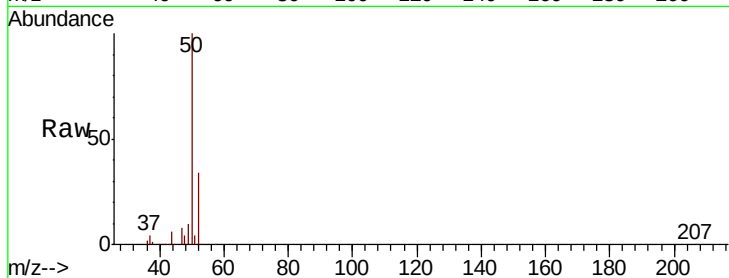
52 34.1 26.2 39.2

Manual Integrations

APPROVED

MMDadoda

8/31/2019 10:00:46 AM



#4

Vinyl Chloride

Concen: 20.784 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN057581.D

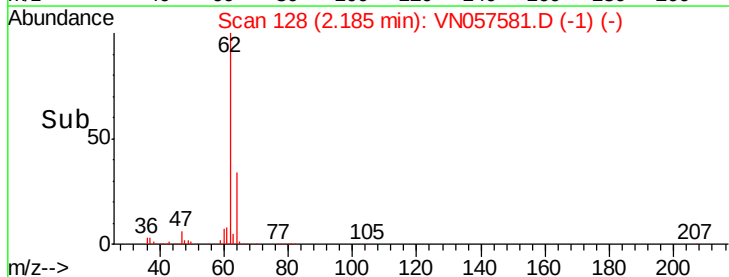
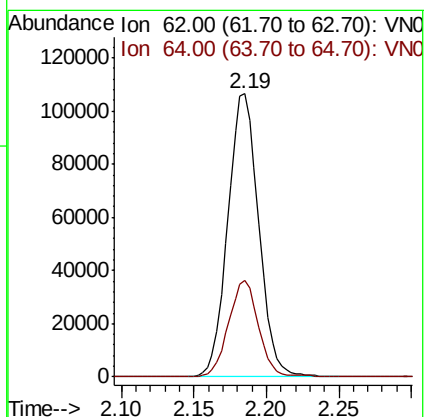
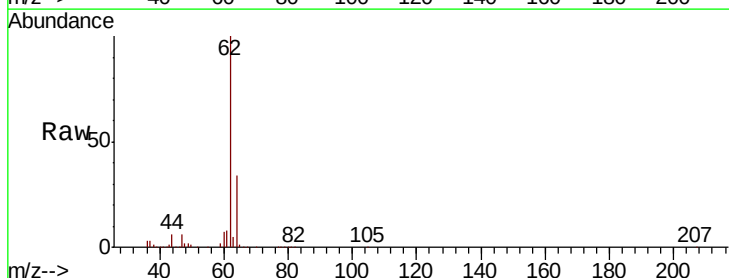
Acq: 30 Aug 2019 11:15

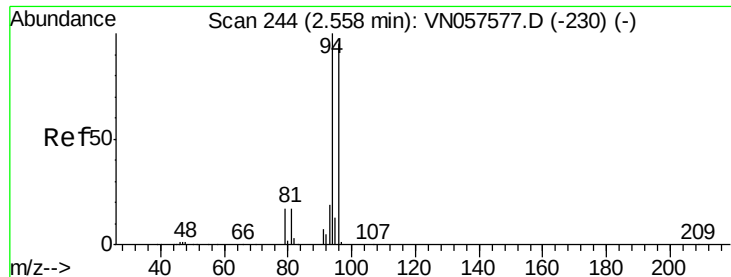
Tgt Ion: 62 Resp: 157035

Ion Ratio Lower Upper

62 100

64 34.2 25.9 38.9





#5

Bromomethane

Concen: 21.565 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

ClientSampleId :

ICVVN083019

Tgt Ion: 94 Resp: 149678

Ion Ratio Lower Upper

94 100

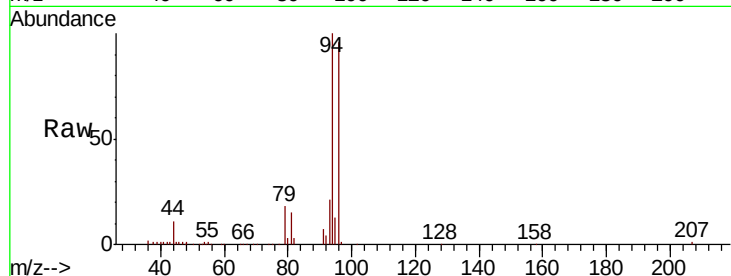
96 95.8 76.2 114.4

Manual Integrations

APPROVED

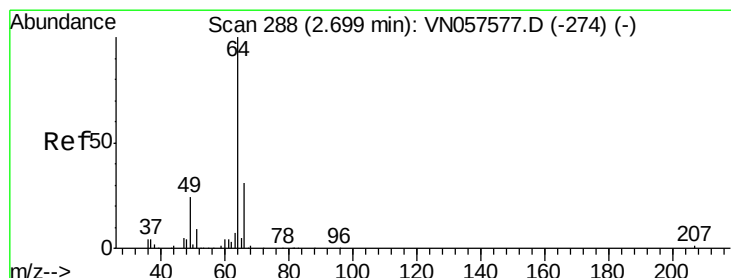
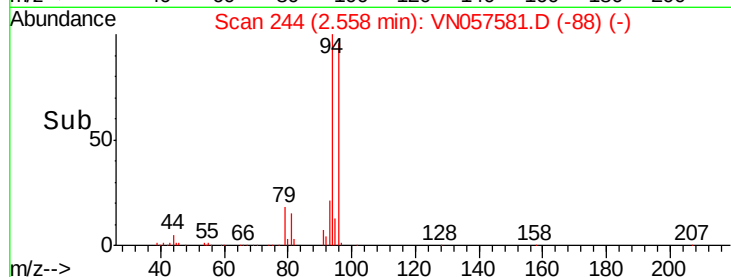
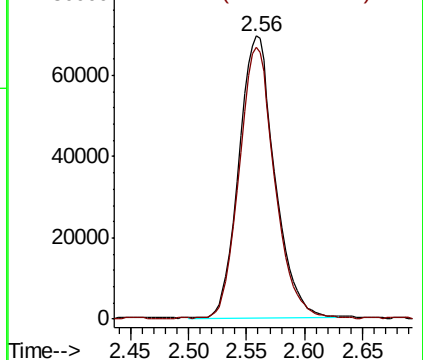
MMDadoda

8/31/2019 10:00:46 AM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 19.328 ug/l

RT: 2.70 min Scan# 288

Delta R.T. 0.00 min

Lab File: VN057581.D

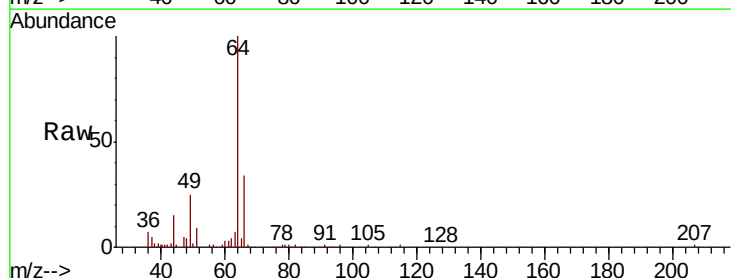
Acq: 30 Aug 2019 11:15

Tgt Ion: 64 Resp: 98846

Ion Ratio Lower Upper

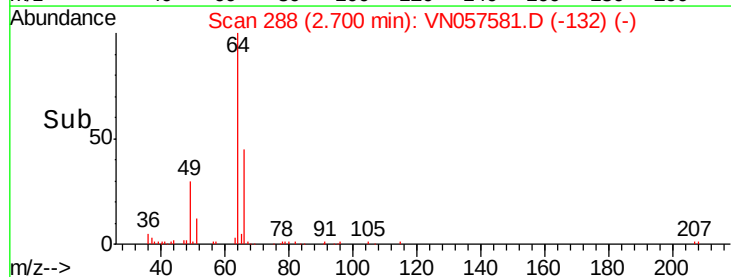
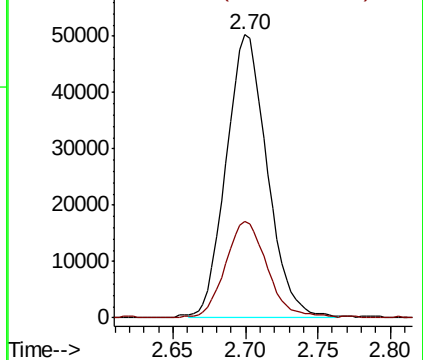
64 100

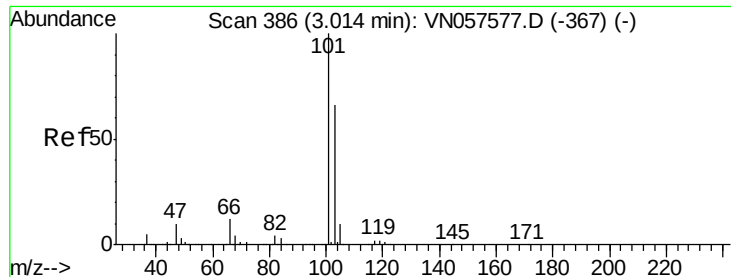
66 34.0 25.1 37.7



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

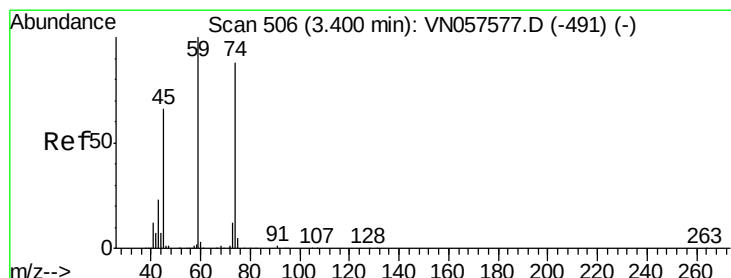
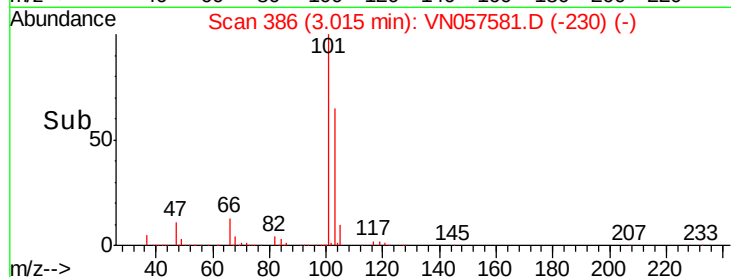
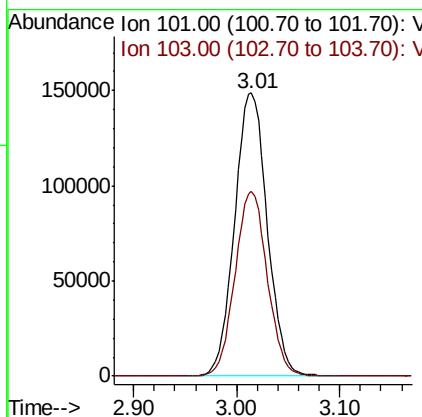
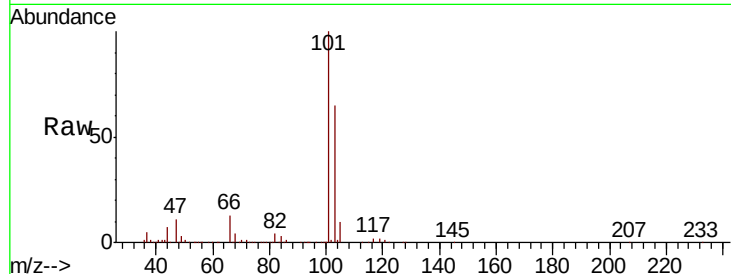
Trichlorofluoromethane
 Concen: 19.646 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	327991		
103	65.2	52.4	78.6	

Manual Integrations
 APPROVED

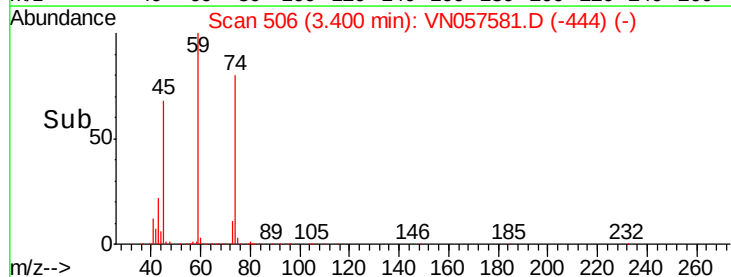
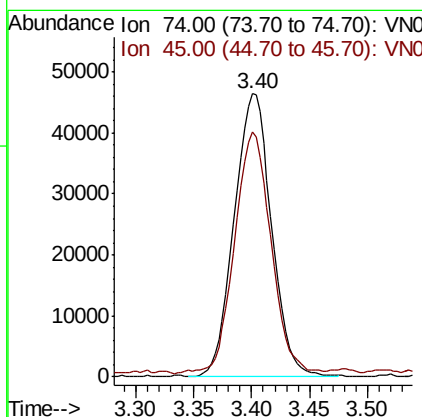
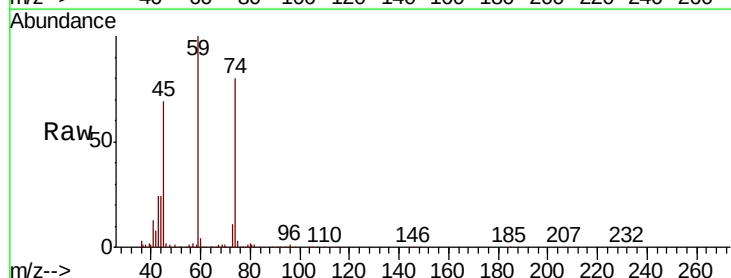
MMDadoda
 8/31/2019 10:00:46 AM

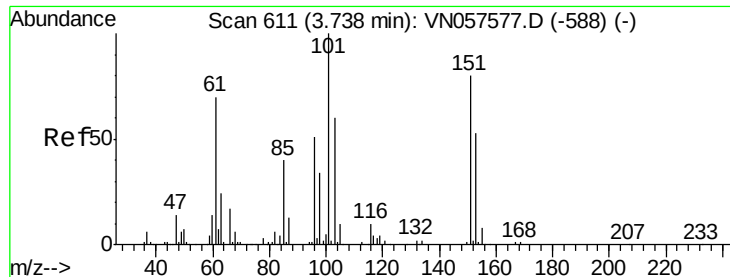


#8

Diethyl Ether
 Concen: 19.343 ug/l
 RT: 3.40 min Scan# 506
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	103892		
45	83.4	15.2	137.2	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.700 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

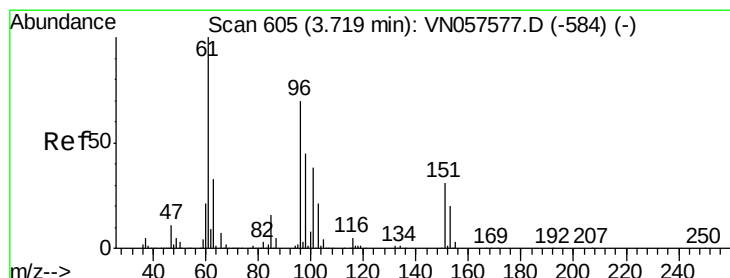
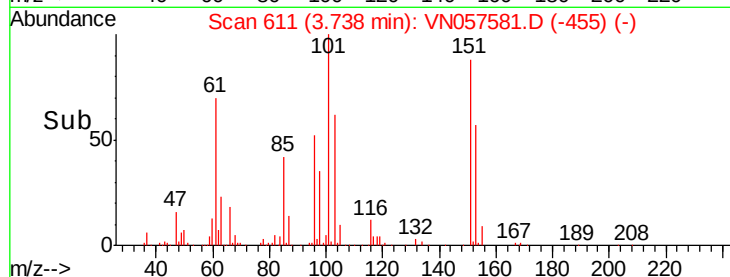
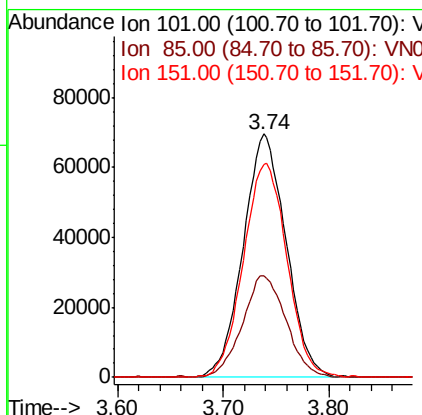
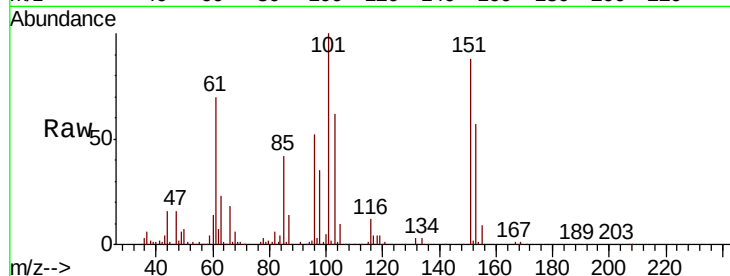
ClientSampleId :

ICVVN083019

Tgt Ion:	101	Resp:	196847
Ion Ratio	Lower	Upper	
101	100		
85	41.9	0.0	83.2
151	89.5	0.0	166.6

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM



#10

1,1-Dichloroethene

Concen: 19.329 ug/l

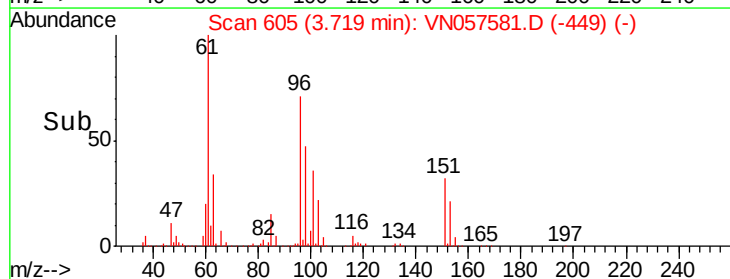
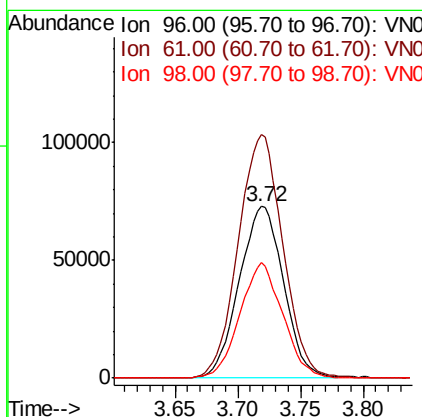
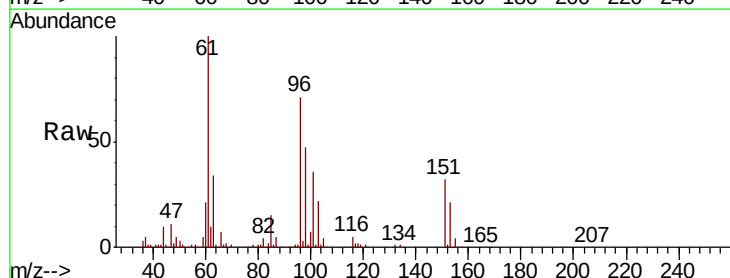
RT: 3.72 min Scan# 605

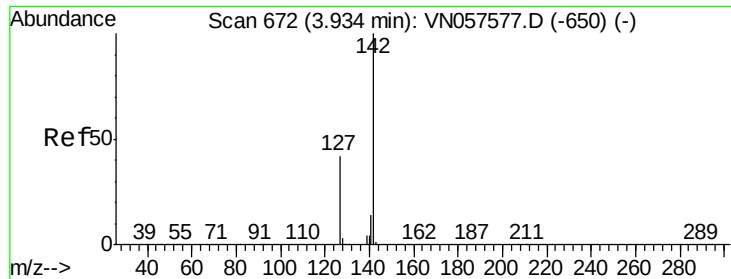
Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Tgt Ion:	96	Resp:	177427
Ion Ratio	Lower	Upper	
96	100		
61	141.9	114.2	171.4
98	67.1	51.8	77.6





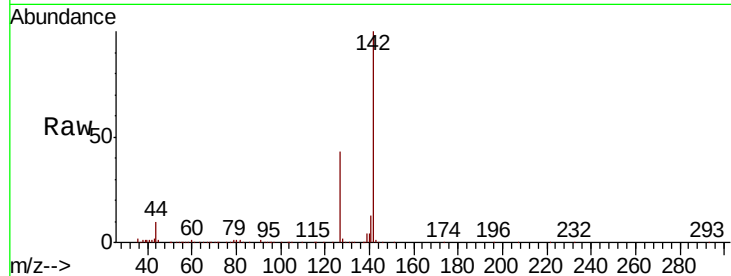
#11
Methyl Iodide
Concen: 18.313 ug/l
RT: 3.93 min Scan# 672
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

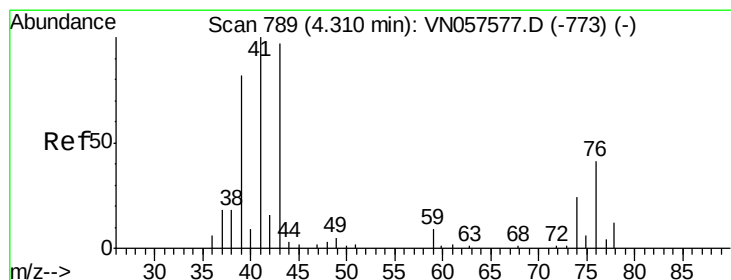
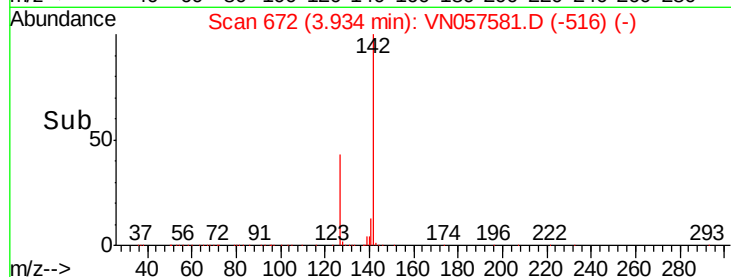
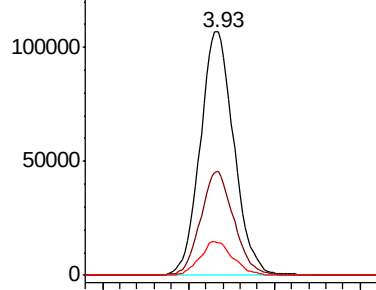
Tgt Ion	Ratio	Lower	Upper
142	100		
127	42.5	20.8	62.4
141	13.4	6.8	20.4

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM

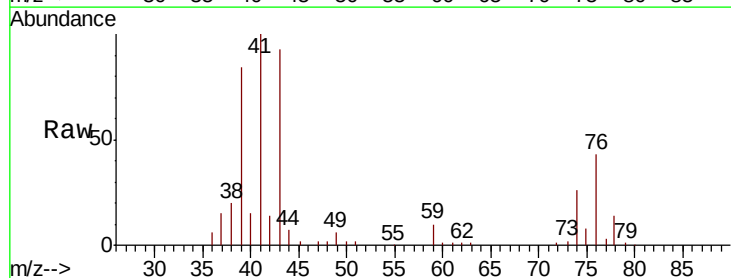


Abundance Ion 142.00 (141.70 to 142.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 141.00 (140.70 to 141.70): V

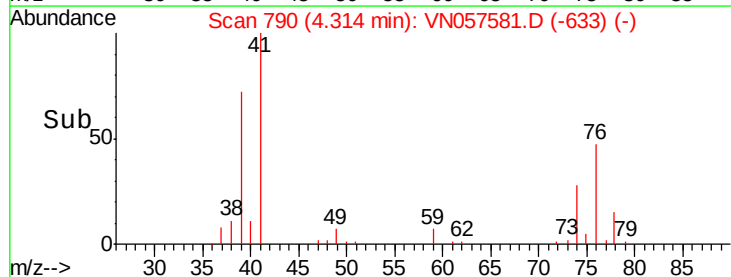
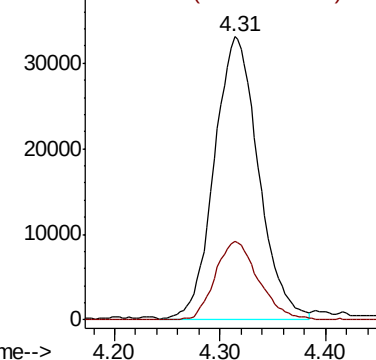


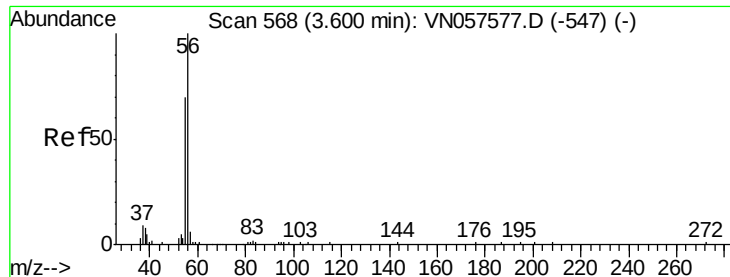
#12
Methyl Acetate
Concen: 19.541 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Lower	Upper
43	100		
74	27.6	19.6	29.4



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 74.00 (73.70 to 74.70): V





#13

Acrolein

Concen: 92.186 ug/l

RT: 3.59 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

ClientSampleId :

ICVVN083019

Tgt Ion: 56 Resp: 58141

Ion Ratio Lower Upper

56 100

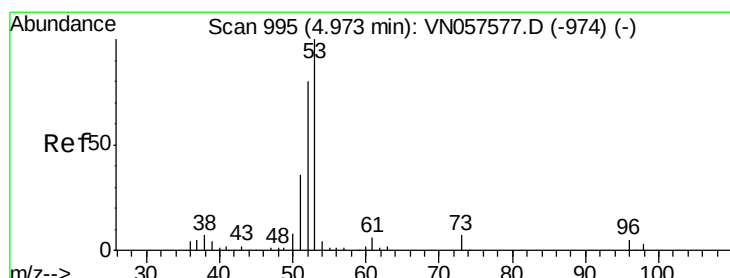
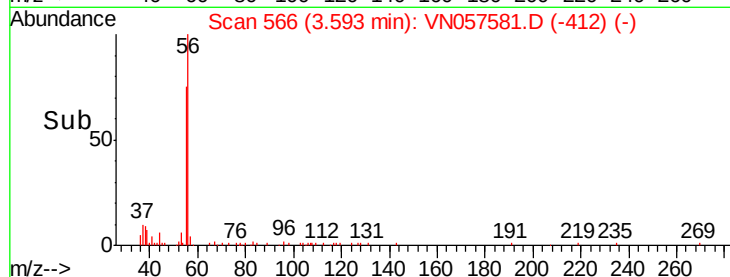
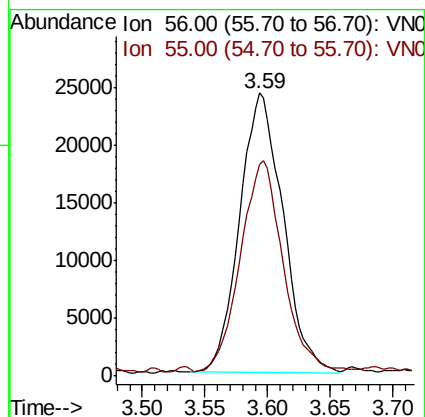
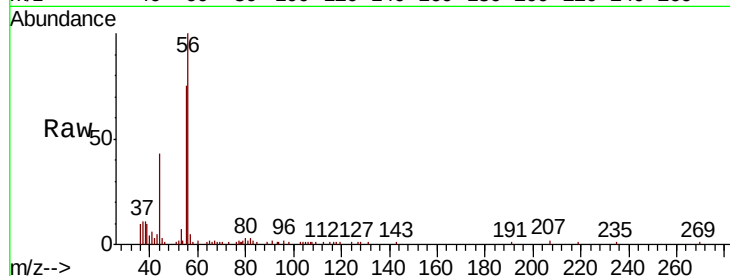
55 73.9 54.5 81.7

Manual Integrations

APPROVED

MMDadoda

8/31/2019 10:00:46 AM



#14

Acrylonitrile

Concen: 100.489 ug/l

RT: 4.98 min Scan# 996

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

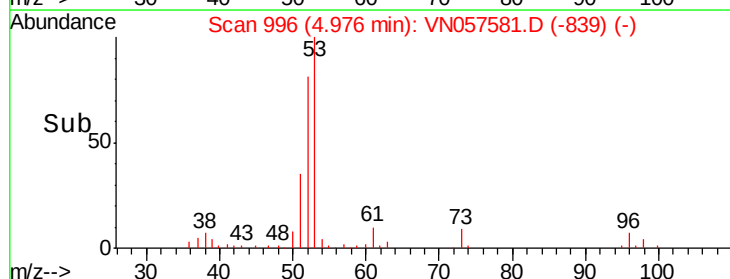
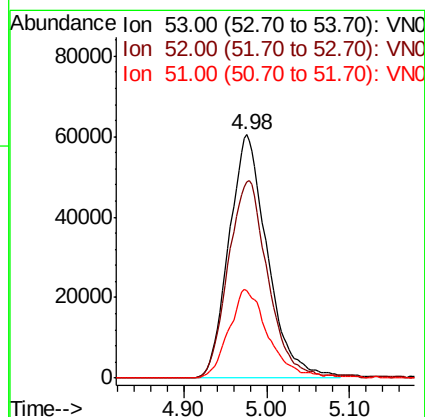
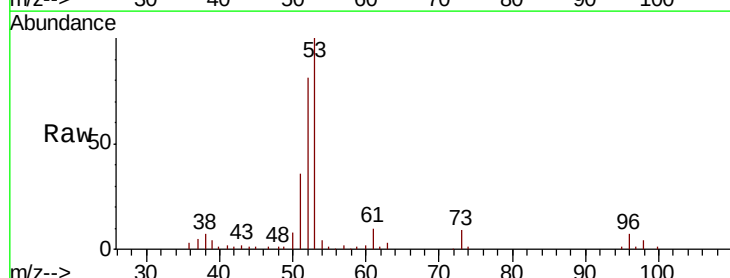
Tgt Ion: 53 Resp: 195408

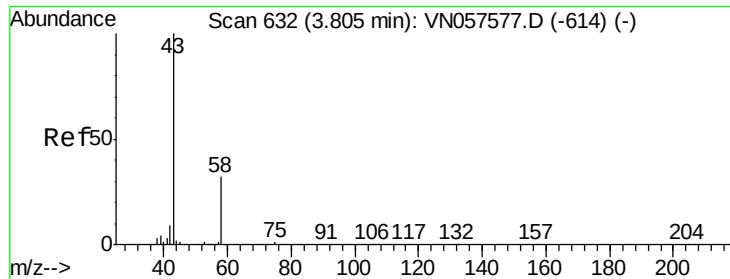
Ion Ratio Lower Upper

53 100

52 83.2 40.6 122.0

51 37.1 8.3 24.9#





#15

Acetone

Concen: 97.752 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

ClientSampleId :

ICVVN083019

Tgt Ion: 58 Resp: 102593

Ion Ratio Lower Upper

58 100

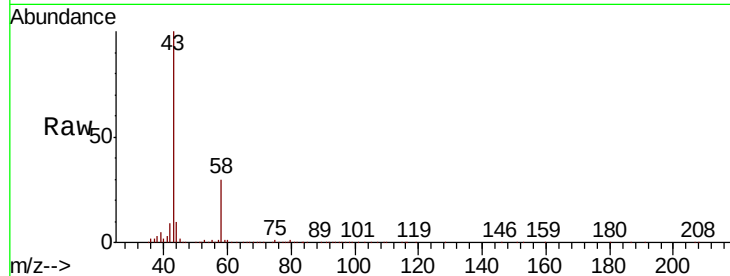
43 328.5 252.8 379.2

Manual Integrations

APPROVED

MMDadoda

8/31/2019 10:00:46 AM



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

150000

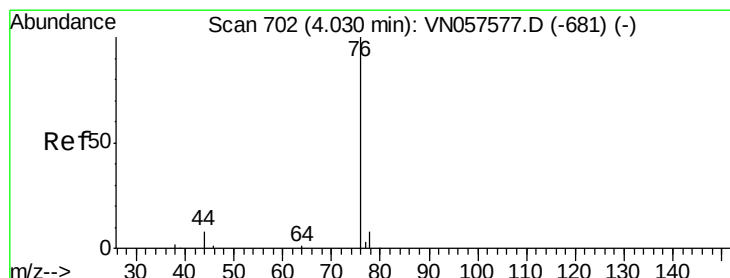
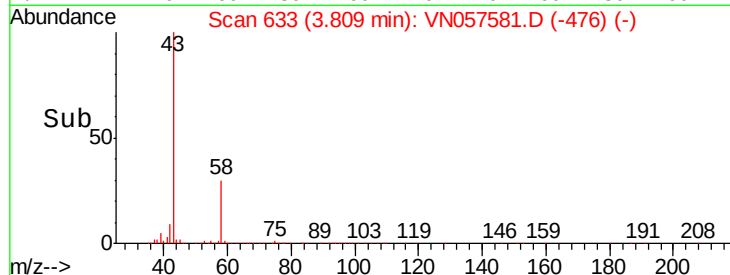
100000

50000

0

3.70 3.75 3.80 3.85 3.90

Time-->



#16

Carbon Disulfide

Concen: 22.422 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN057581.D

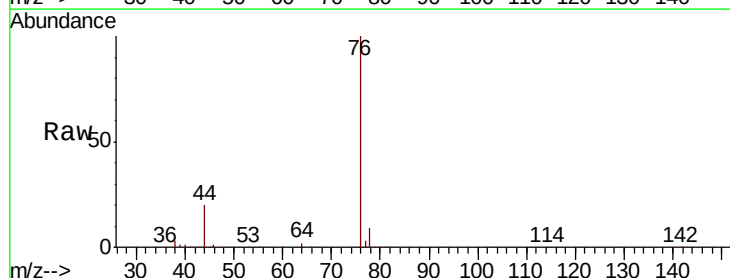
Acq: 30 Aug 2019 11:15

Tgt Ion: 76 Resp: 214736

Ion Ratio Lower Upper

76 100

78 9.1 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

80000

60000

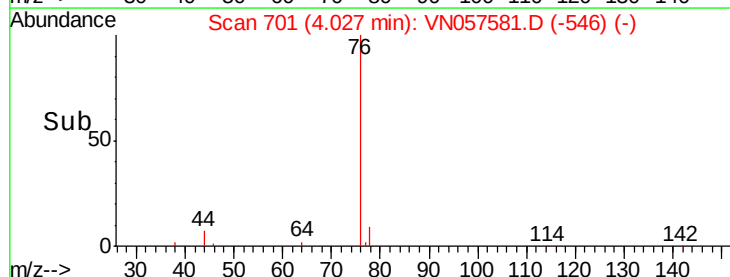
40000

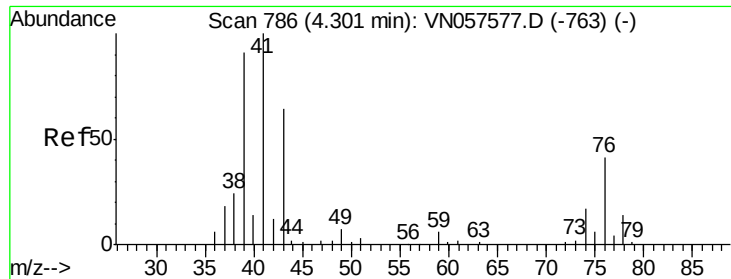
20000

0

3.90 4.00 4.10

Time-->





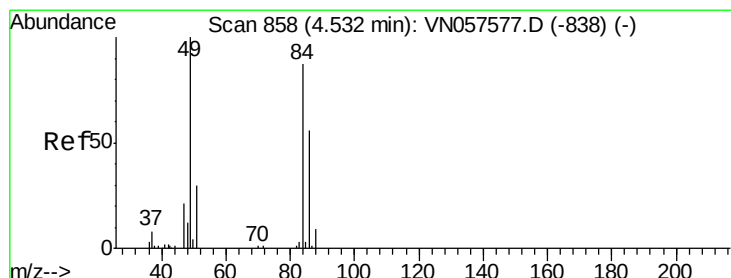
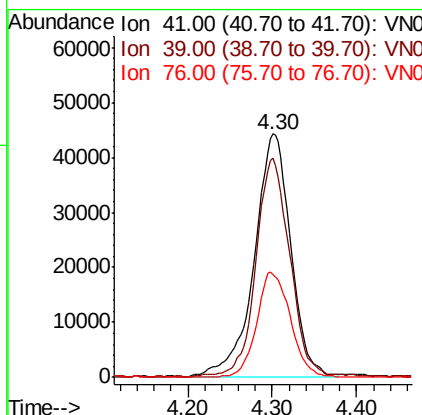
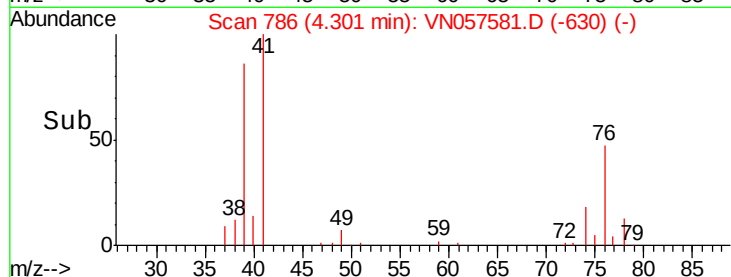
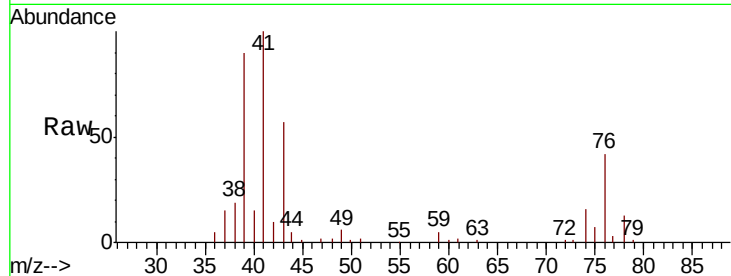
#17
 Allyl chloride
 Concen: 20.392 ug/l
 RT: 4.30 min Scan# 786
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	133558		
39	90.0	44.6	134.0	
76	42.3	19.8	59.3	

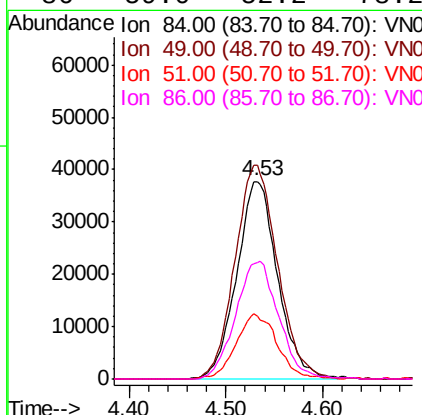
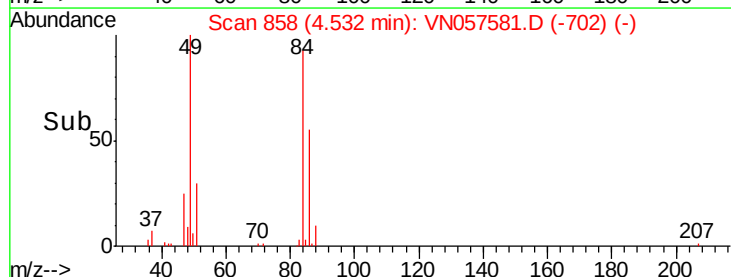
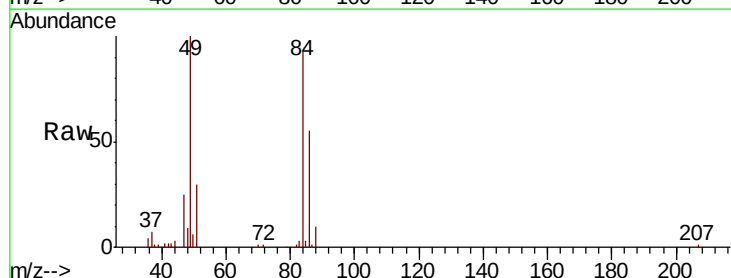
Manual Integrations
 APPROVED

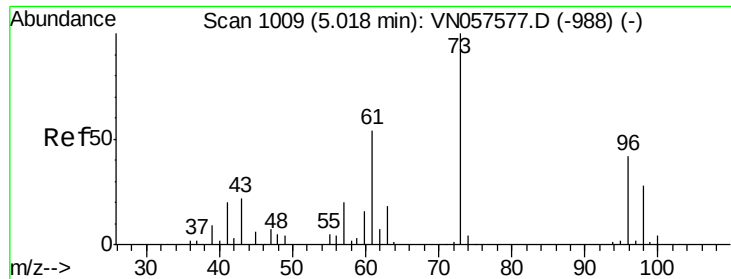
MMDadoda
 8/31/2019 10:00:46 AM



#18
 Methylene Chloride
 Concen: 21.023 ug/l
 RT: 4.53 min Scan# 858
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
84	100	110871		
49	107.9	92.4	138.6	
51	31.9	27.9	41.9	
86	59.0	52.2	78.2	





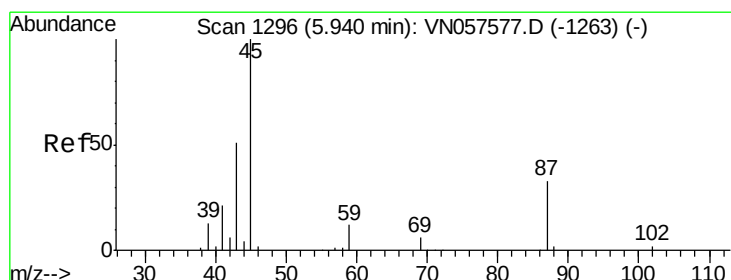
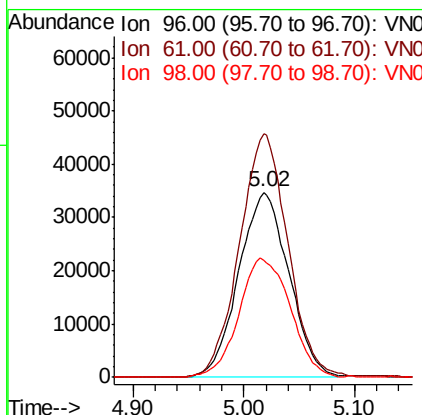
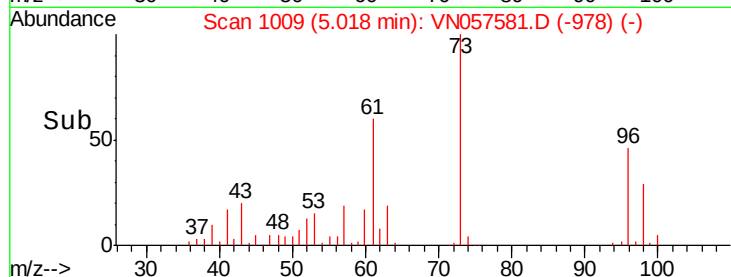
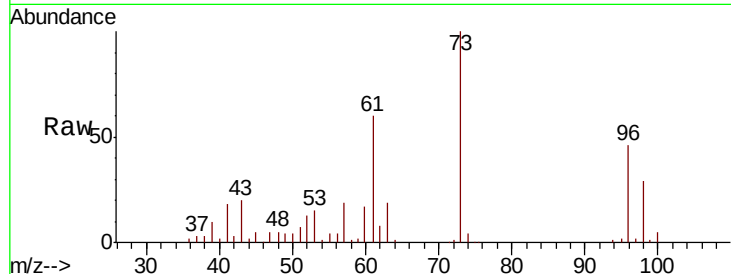
#19
trans-1,2-Dichloroethene
Concen: 20.896 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

Tgt Ion	Ratio	Lower	Upper
96	100		
61	130.9	102.6	153.8
98	63.3	52.6	79.0

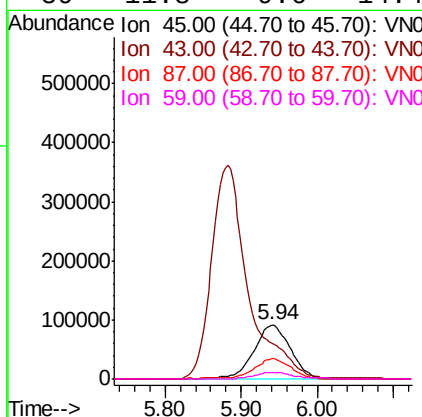
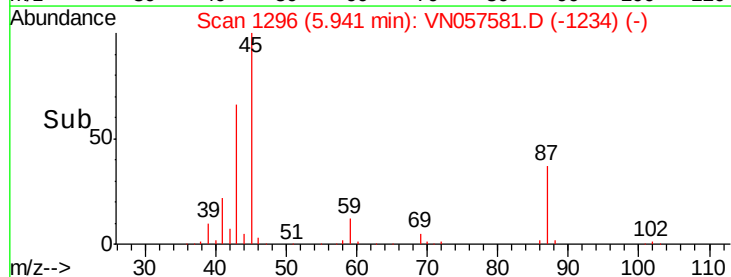
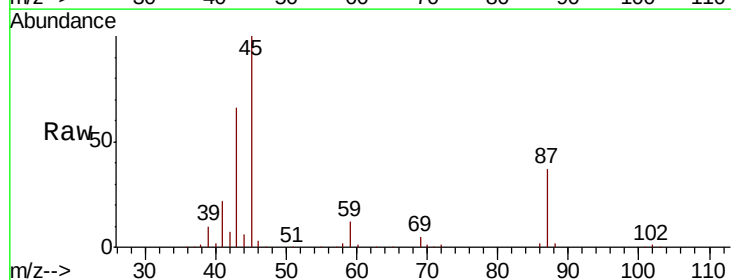
Manual Integrations
APPROVED

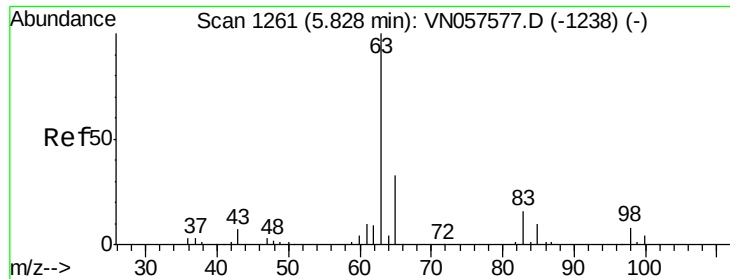
MMDadoda
8/31/2019 10:00:46 AM



#20
Diisopropyl ether
Concen: 19.554 ug/l
RT: 5.94 min Scan# 1296
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.4	51.9	77.9
87	37.1	27.3	40.9
59	11.8	9.6	14.4





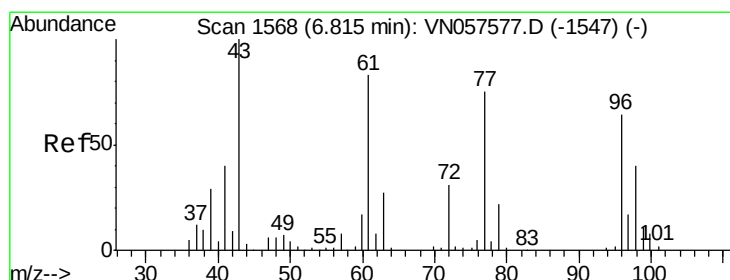
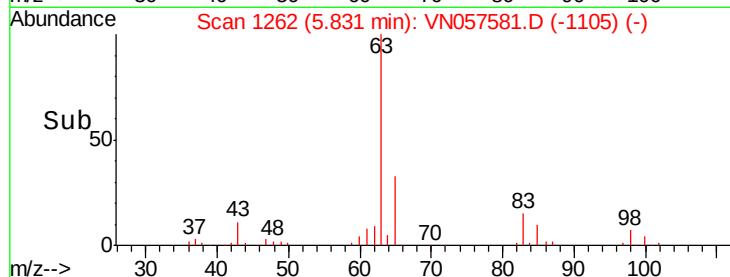
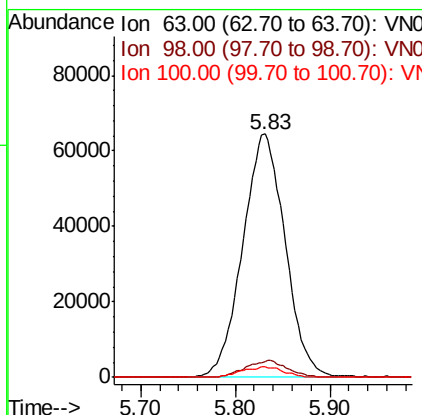
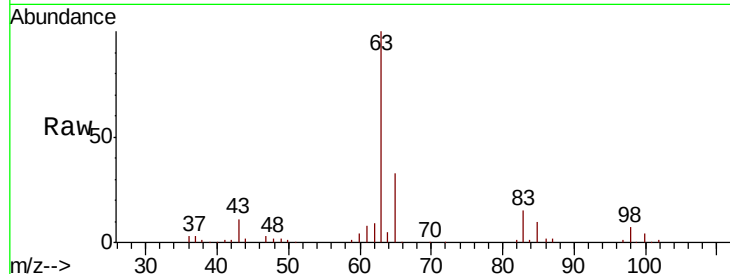
#21
 1,1-Dichloroethane
 Concen: 20.330 ug/l
 RT: 5.83 min Scan# 1262
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	200753		
98	7.2		3.8	11.2
100	4.2		2.0	6.0

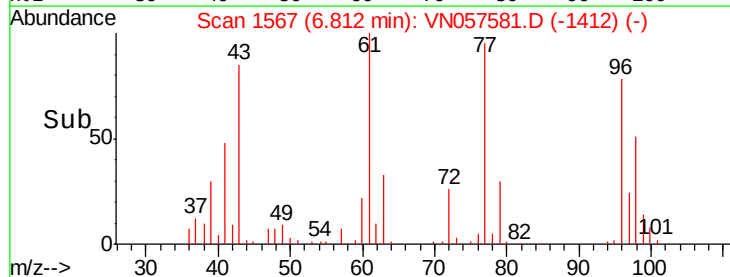
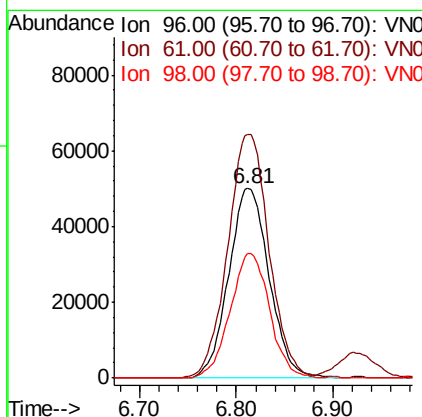
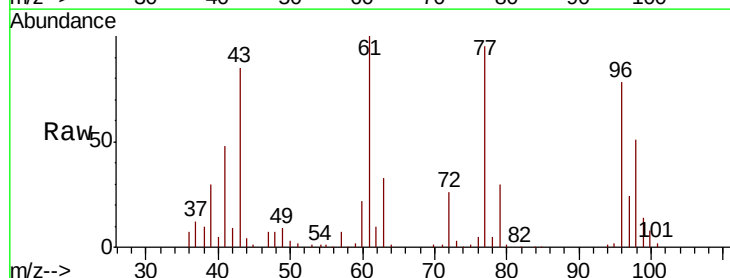
Manual Integrations
 APPROVED

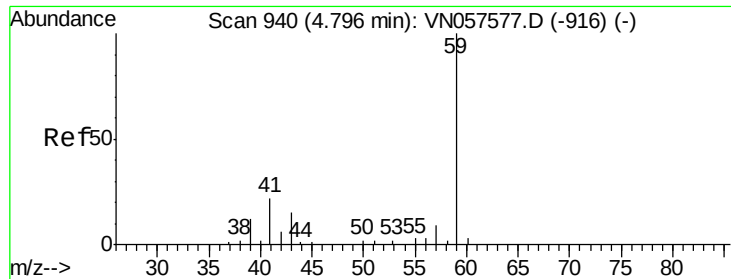
MMDadoda
 8/31/2019 10:00:46 AM



#22
 cis-1,2-Dichloroethene
 Concen: 20.839 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. -0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	145581		
61	130.7		110.5	165.7
98	64.1		51.1	76.7





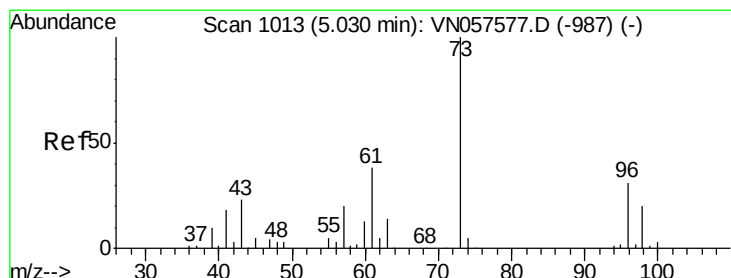
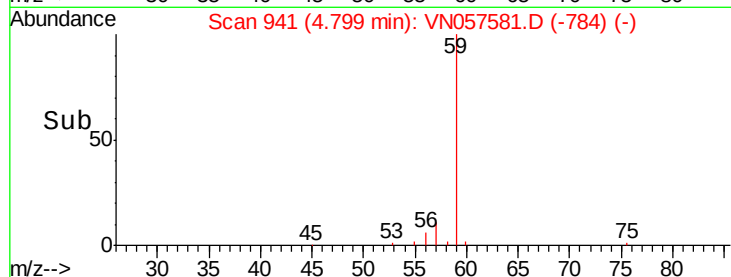
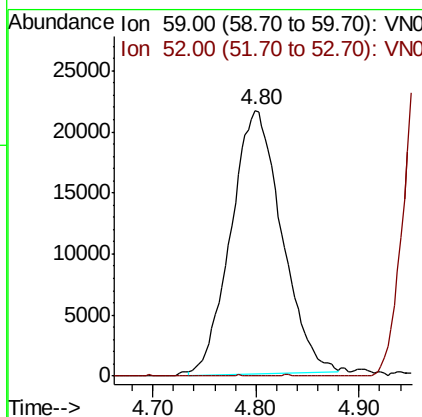
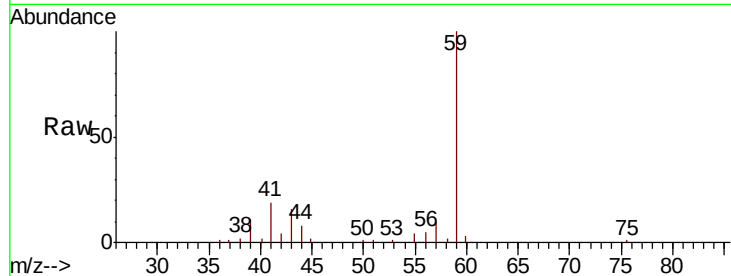
#23
 tert-Butyl Alcohol
 Concen: 102.747 ug/l
 RT: 4.80 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN083019

Tgt Ion: 59 Resp: 74096
 Ion Ratio Lower Upper
 59 100
 52 0.1 0.1 0.1

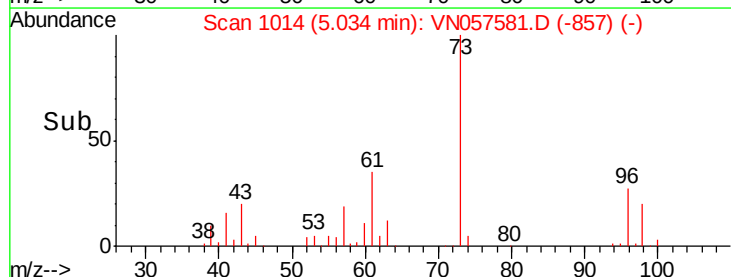
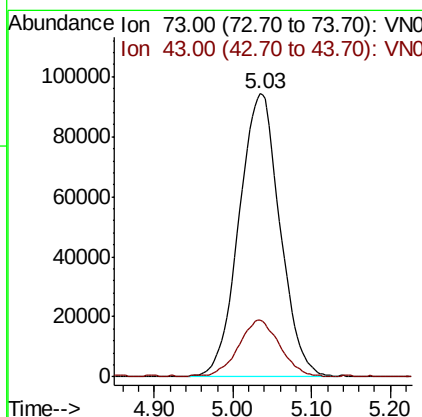
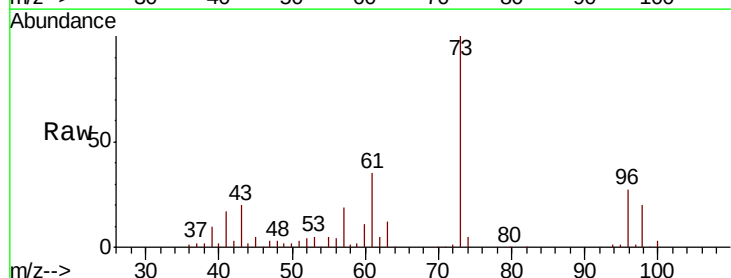
Manual Integrations
 APPROVED

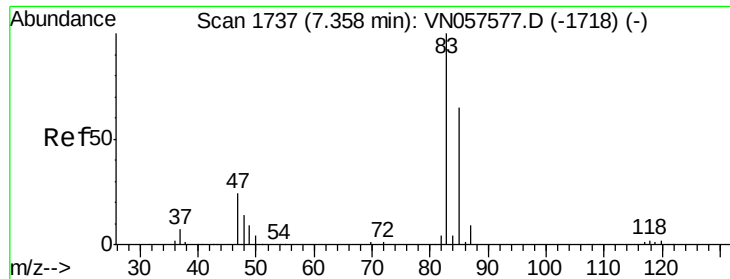
MMDadoda
 8/31/2019 10:00:46 AM



#24
 Methyl tert-Butyl Ether
 Concen: 20.482 ug/l
 RT: 5.03 min Scan# 1014
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion: 73 Resp: 345986
 Ion Ratio Lower Upper
 73 100
 43 19.7 18.4 27.6





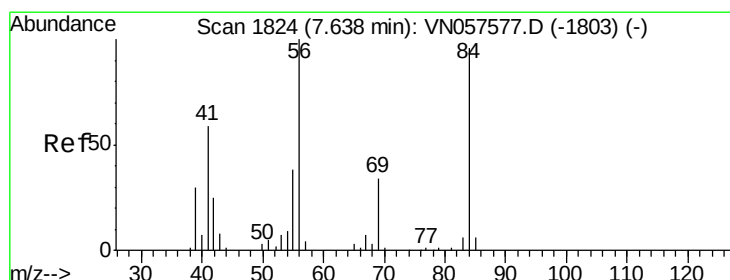
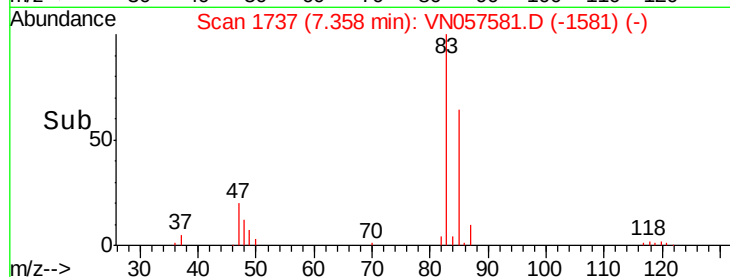
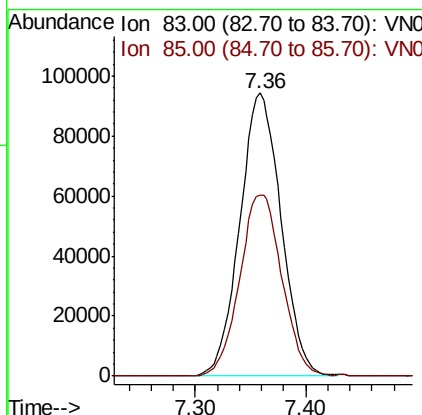
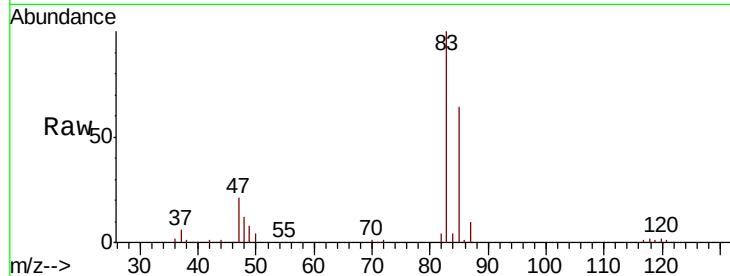
#25
Chloroform
Concen: 20.335 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

Tgt Ion: 83 Resp: 243985
Ion Ratio Lower Upper
83 100
85 63.9 51.8 77.6

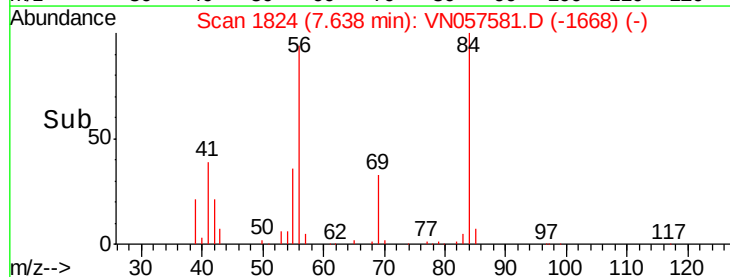
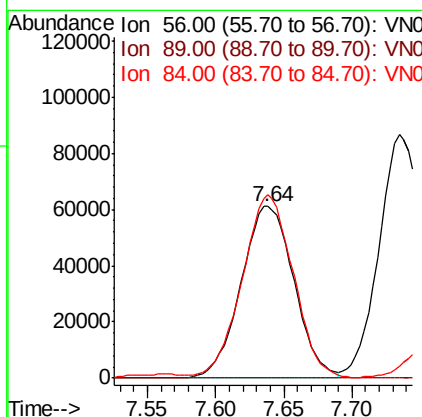
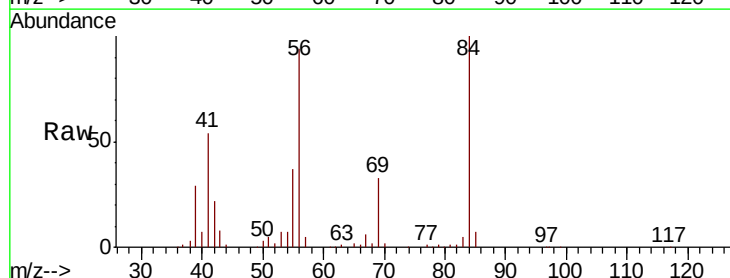
Manual Integrations
APPROVED

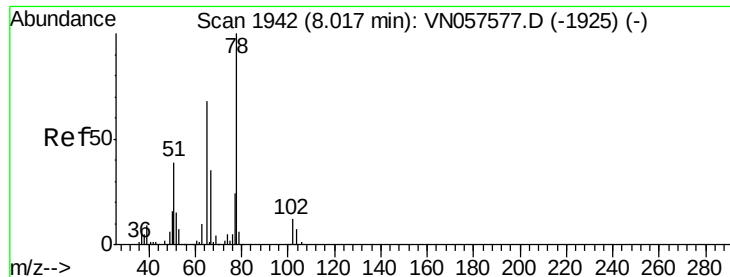
MMDadoda
8/31/2019 10:00:46 AM



#26
Cyclohexane
Concen: 19.868 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion: 56 Resp: 163597
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 103.6 75.9 113.9





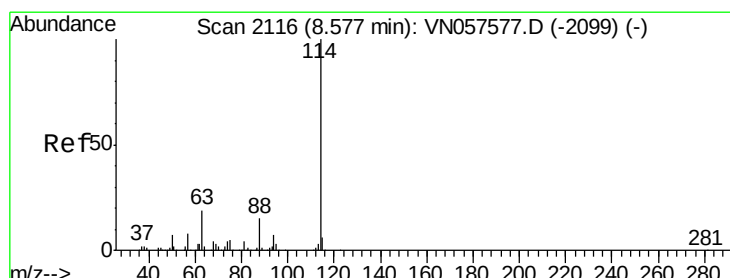
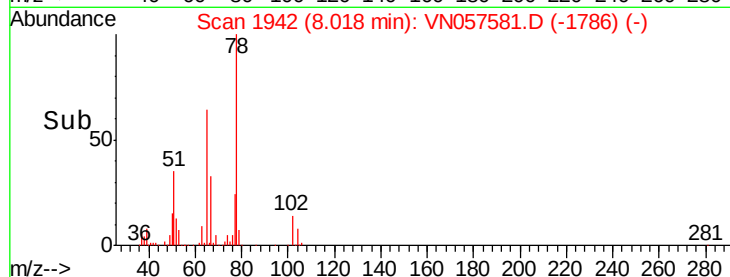
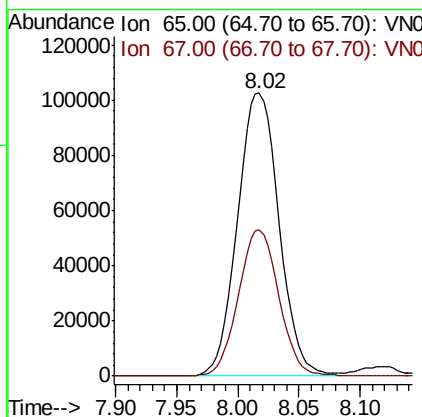
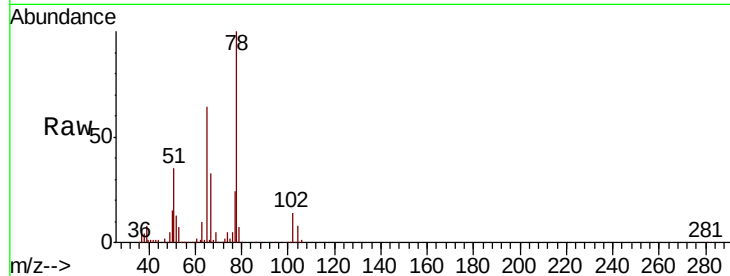
#27
 1,2-Dichloroethane-d4
 Concen: 30.310 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	241689		
67	50.4	39.8	59.6	

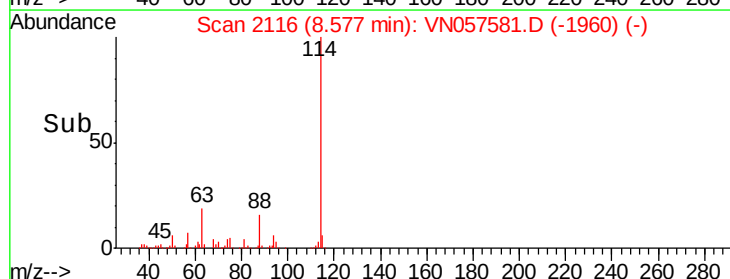
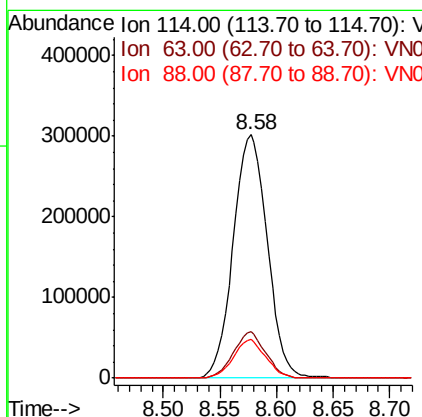
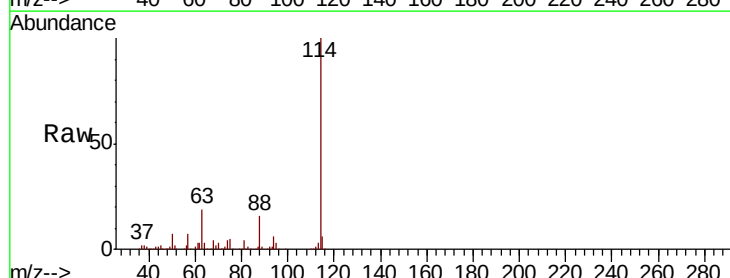
Manual Integrations
 APPROVED

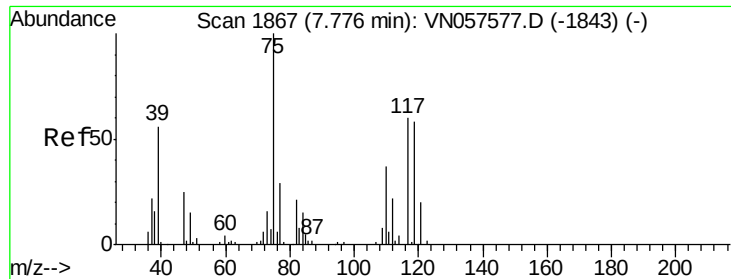
MMDadoda
 8/31/2019 10:00:46 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	634209		
63	18.0	15.4	23.0	
88	15.1	11.8	17.8	





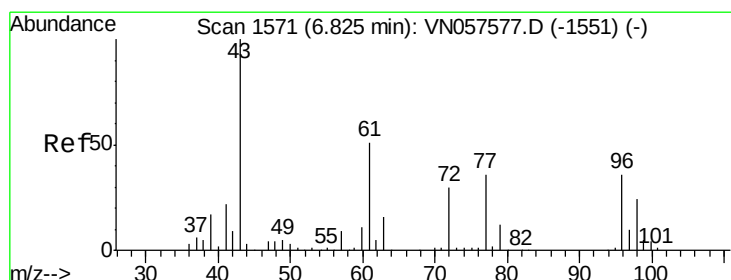
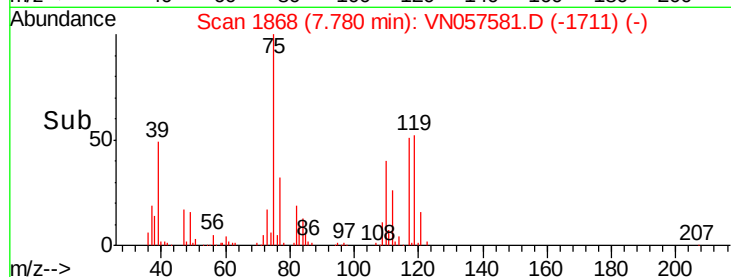
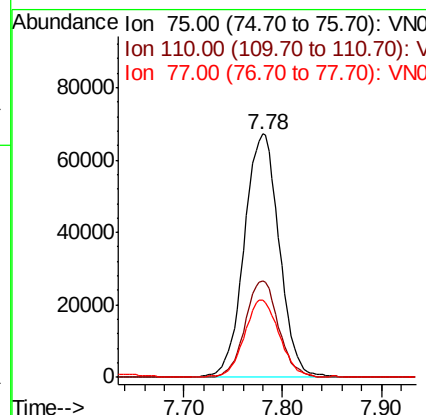
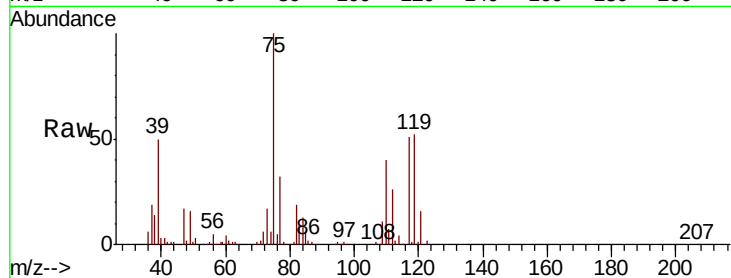
#29
 1,1-Dichloropropene
 Concen: 19.247 ug/l
 RT: 7.78 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampled :
 ICVVN083019

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.8	0.0	75.4
77	31.7	0.0	61.0

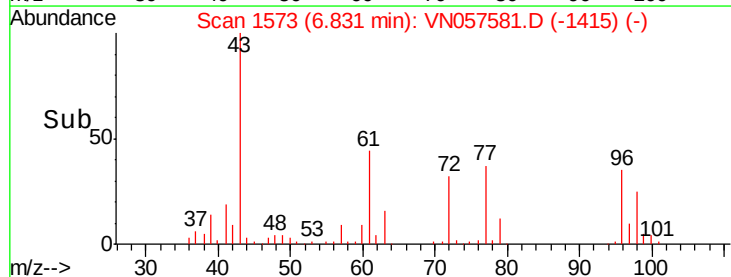
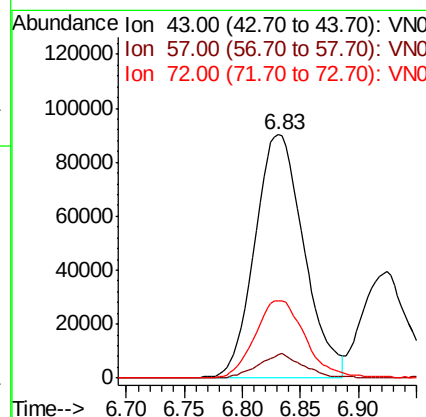
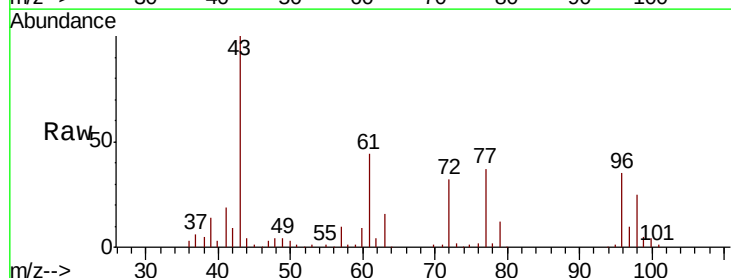
Manual Integrations
 APPROVED

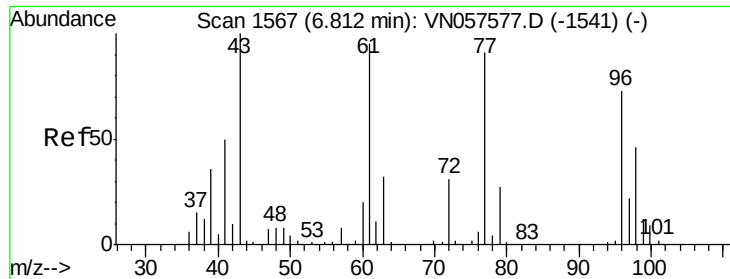
MMDadoda
 8/31/2019 10:00:46 AM



#30
 2-Butanone
 Concen: 95.207 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Lower	Upper
43	100		
57	9.2	3.5	5.3#
72	33.0	24.6	36.8





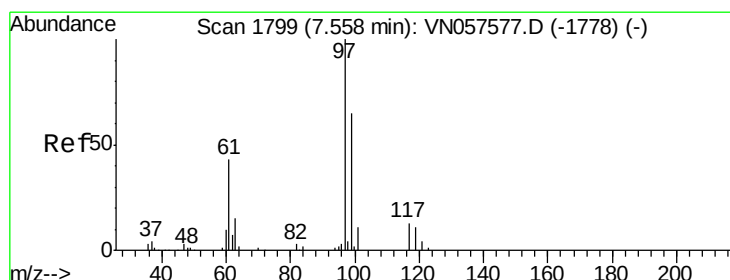
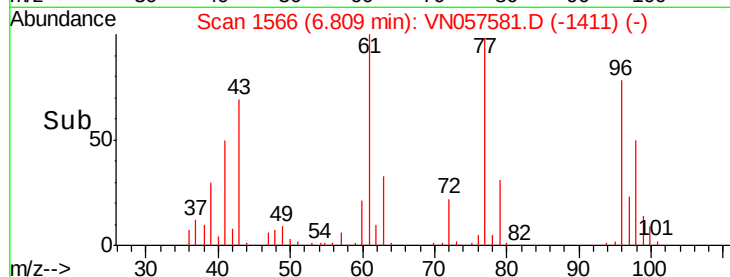
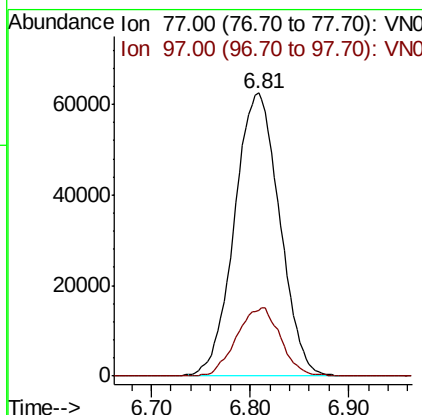
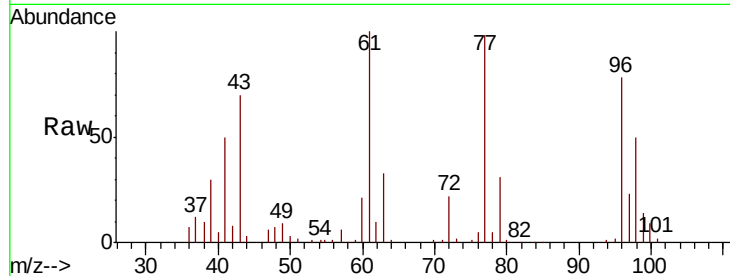
#31
 2,2-Dichloropropane
 Concen: 19.299 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN083019

Tgt Ion	Ratio	Lower	Upper
77	100		
97	23.6	18.9	28.3

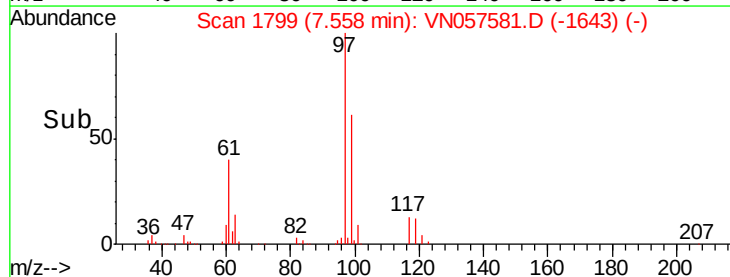
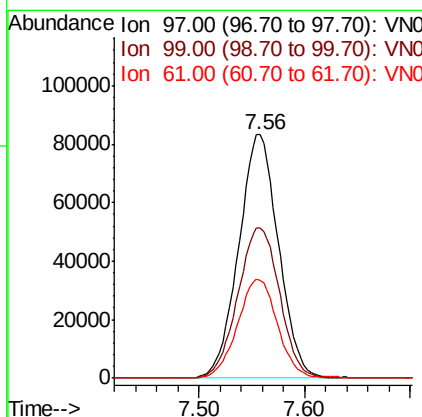
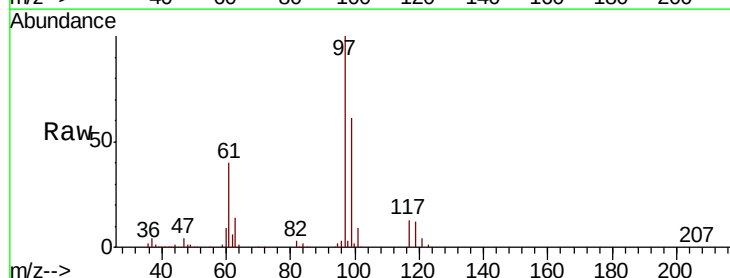
Manual Integrations
 APPROVED

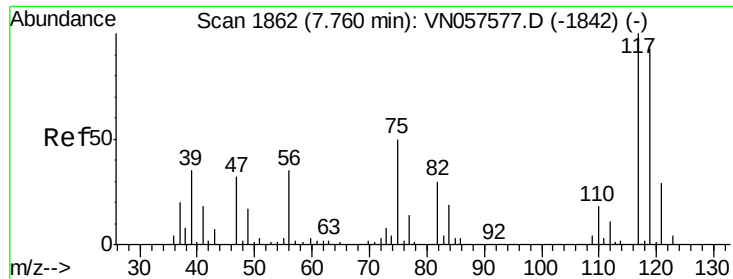
MMDadoda
 8/31/2019 10:00:46 AM



#32
 1,1,1-Trichloroethane
 Concen: 18.990 ug/l
 RT: 7.56 min Scan# 1799
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.1	76.7
61	40.7	34.4	51.6





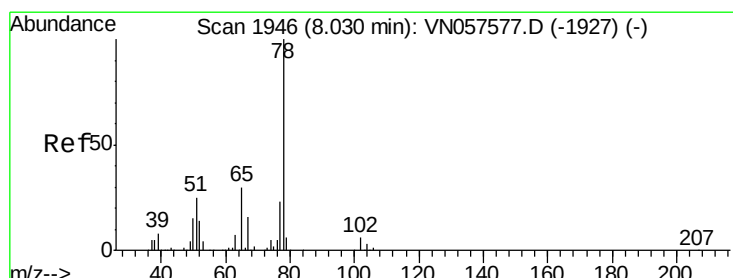
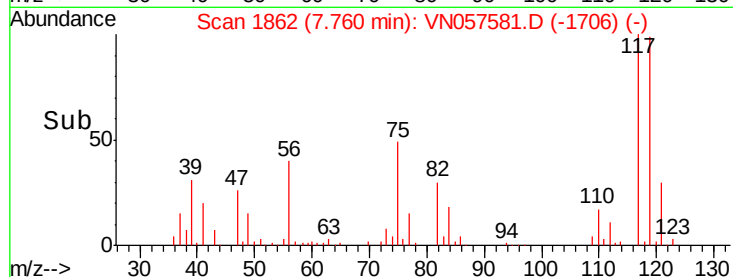
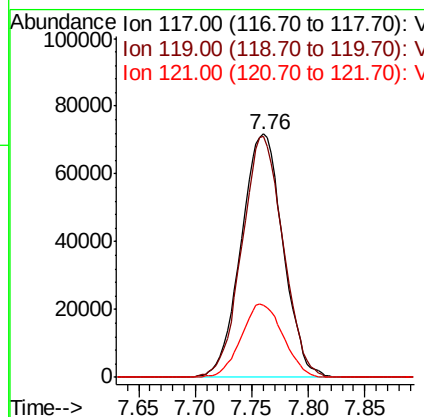
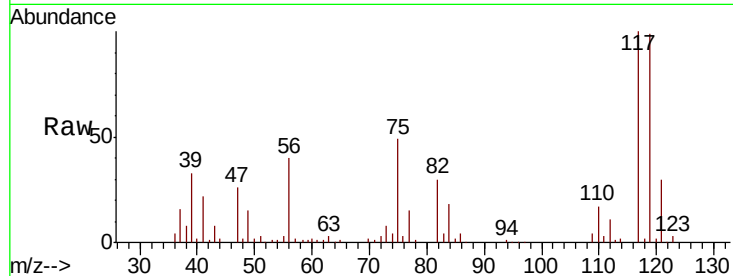
#33
Carbon Tetrachloride
Concen: 18.966 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	185172		
119	99.1	74.6	111.8	
121	30.1	23.5	35.3	

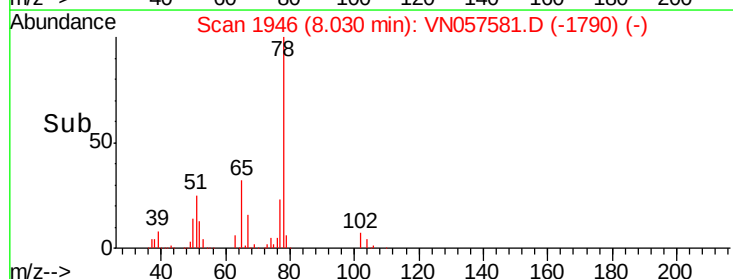
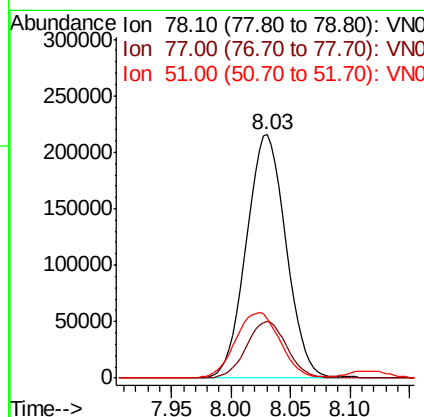
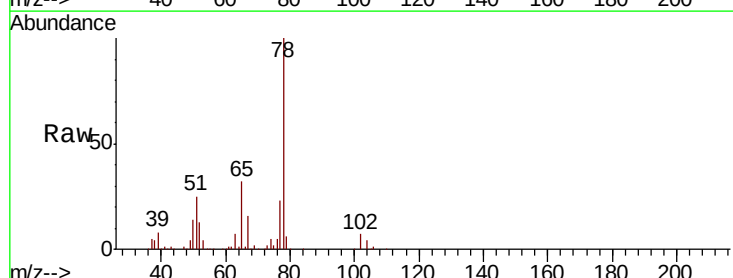
Manual Integrations
APPROVED

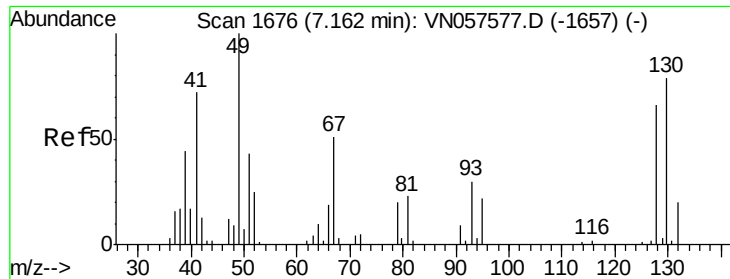
MMDadoda
8/31/2019 10:00:46 AM



#34
Benzene
Concen: 19.399 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	499186		
77	23.3	18.2	27.4	
51	24.5	20.2	30.4	





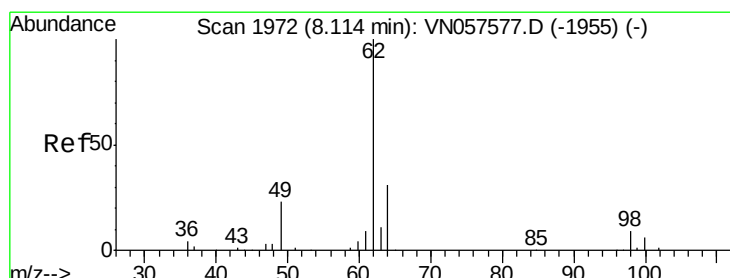
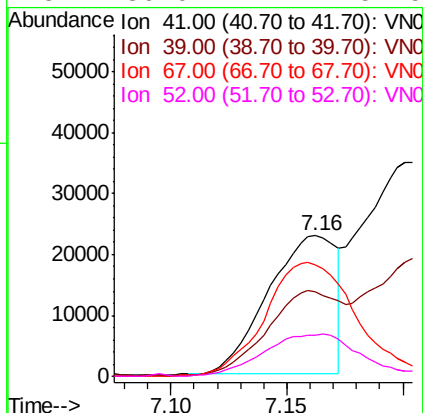
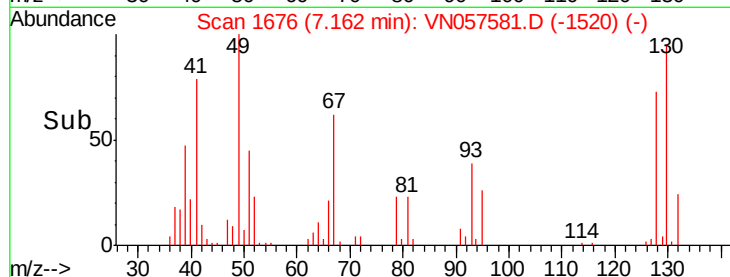
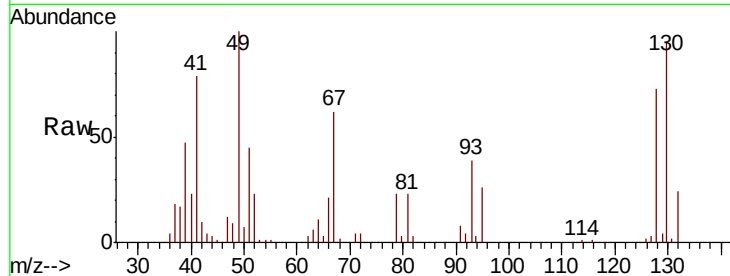
#35
Methacrylonitrile
Concen: 16.988 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

Tgt Ion: 41 Resp: 46807
Ion Ratio Lower Upper
41 100
39 57.7 30.4 91.2
67 79.6 35.6 106.8
52 30.0 17.2 51.5

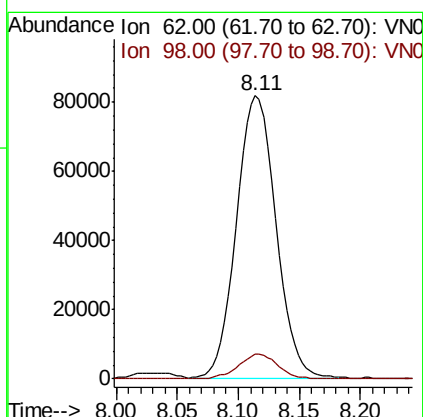
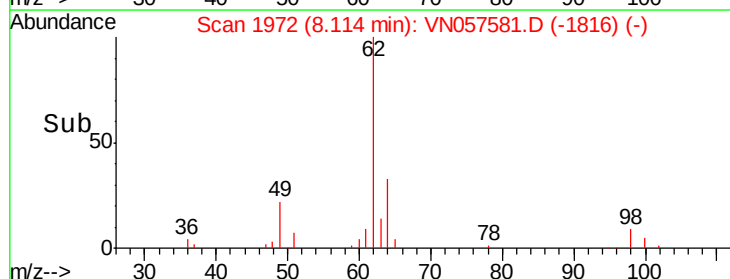
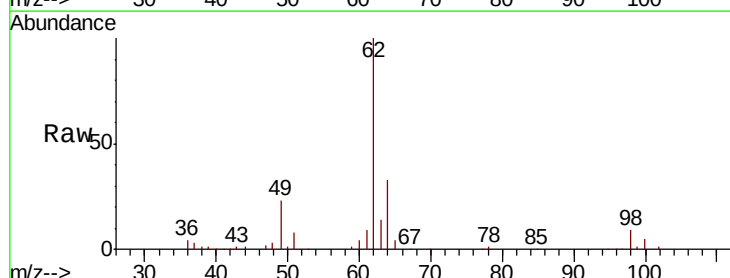
Manual Integrations
APPROVED

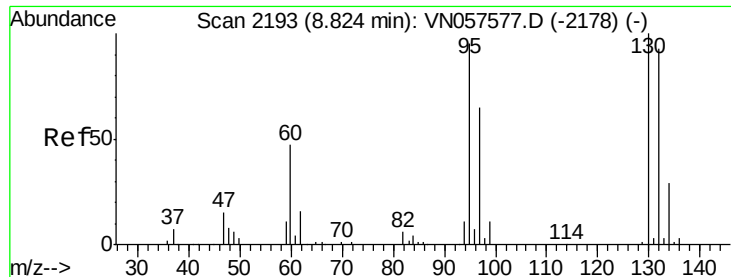
MMDadoda
8/31/2019 10:00:46 AM



#36
1,2-Dichloroethane
Concen: 19.235 ug/l
RT: 8.11 min Scan# 1972
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion: 62 Resp: 182620
Ion Ratio Lower Upper
62 100
98 8.6 6.8 10.2





#37

Trichloroethene

Concen: 19.998 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

ClientSampleId :

ICVVN083019

Tgt Ion:130 Resp: 149041

Ion Ratio Lower Upper

130 100

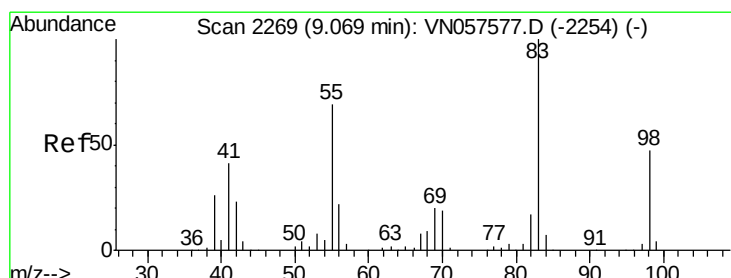
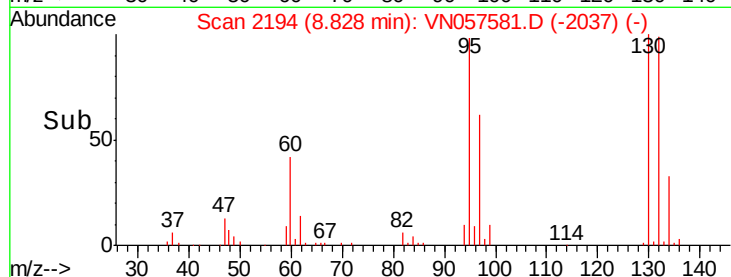
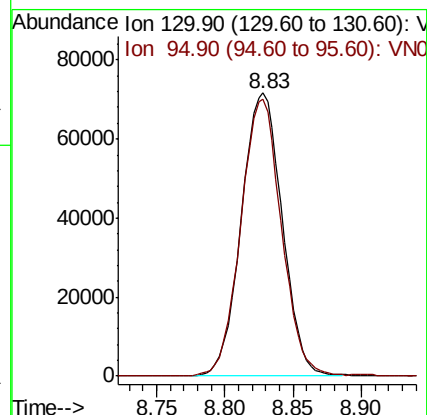
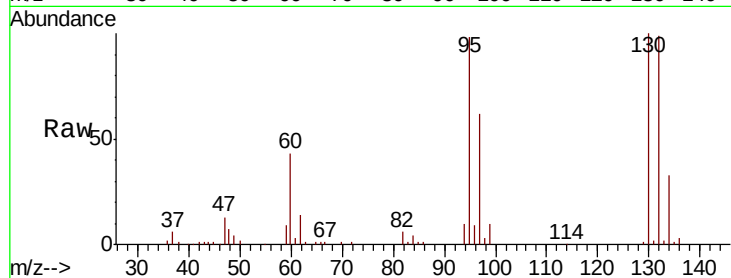
95 97.9 76.2 114.2

Manual Integrations

APPROVED

MMDadoda

8/31/2019 10:00:46 AM



#38

Methylcyclohexane

Concen: 19.834 ug/l

RT: 9.07 min Scan# 2270

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

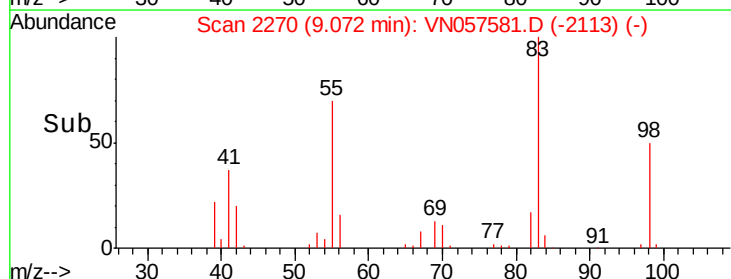
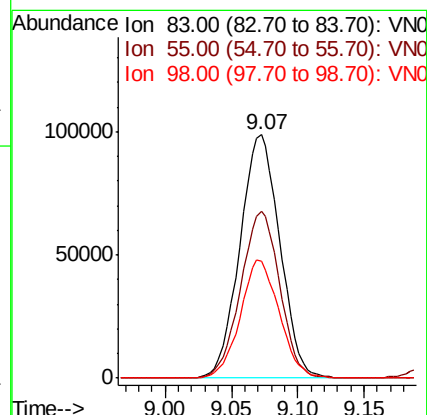
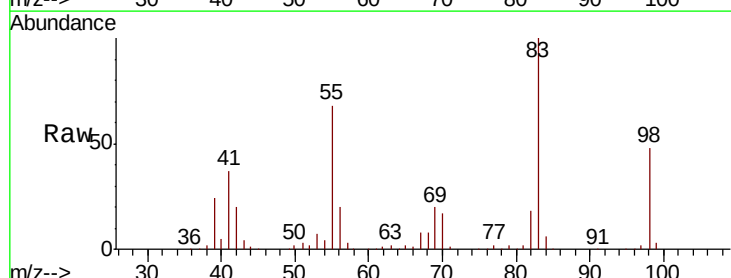
Tgt Ion: 83 Resp: 207347

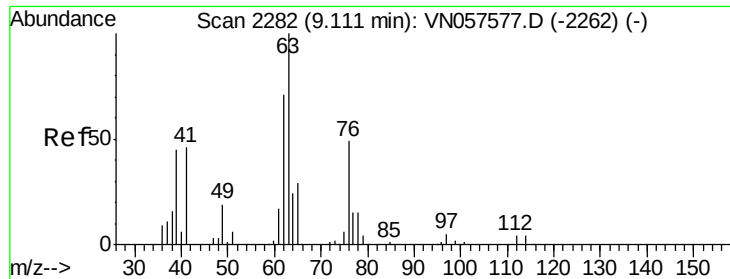
Ion Ratio Lower Upper

83 100

55 67.0 34.5 103.6

98 47.4 23.4 70.3





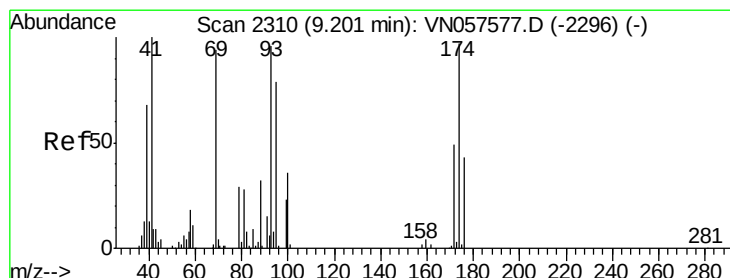
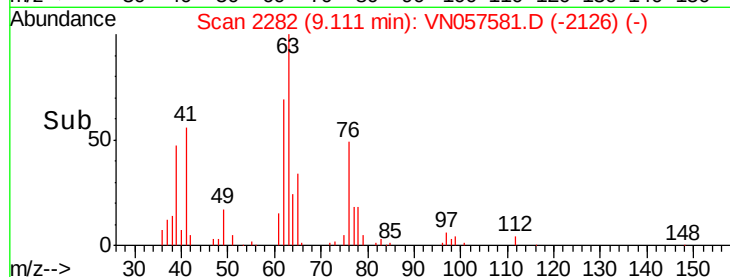
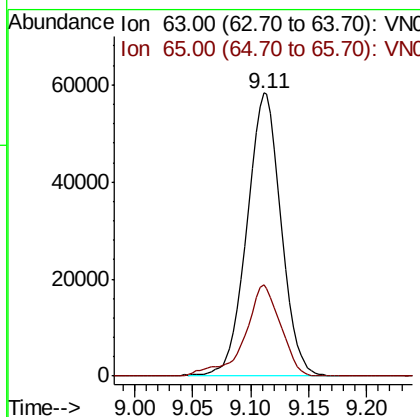
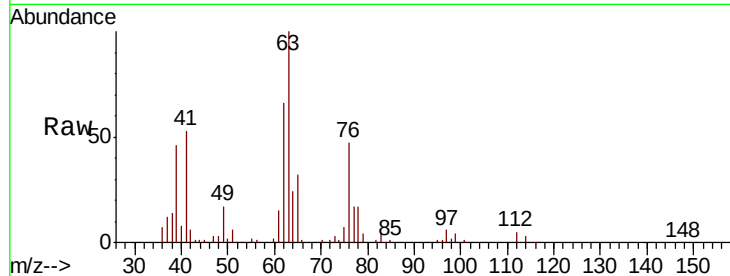
#39
 1,2-Dichloropropane
 Concen: 19.035 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN083019

Tgt Ion: 63 Resp: 119852
 Ion Ratio Lower Upper
 63 100
 65 32.4 24.2 36.2

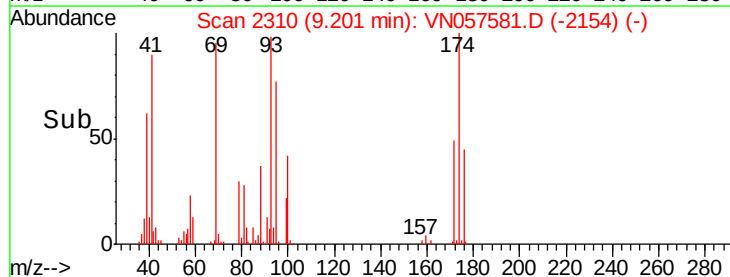
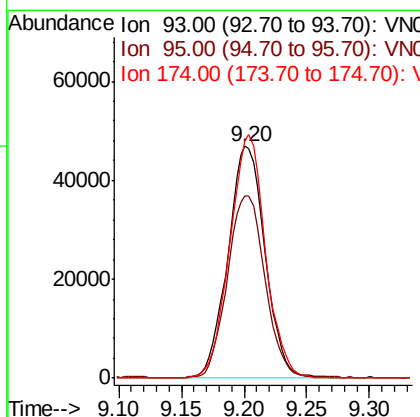
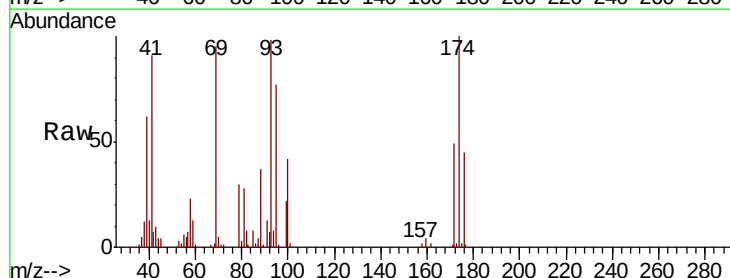
Manual Integrations
 APPROVED

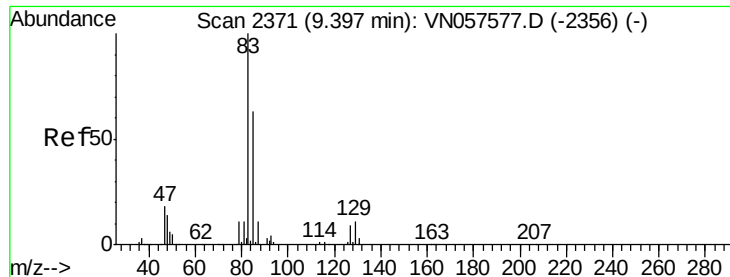
MMDadoda
 8/31/2019 10:00:46 AM



#40
 Dibromomethane
 Concen: 19.863 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion: 93 Resp: 96291
 Ion Ratio Lower Upper
 93 100
 95 80.2 0.0 162.8
 174 100.9 0.0 199.2





#41

Bromodichloromethane

Concen: 18.746 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

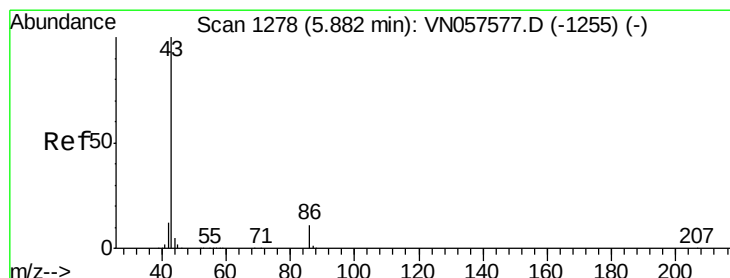
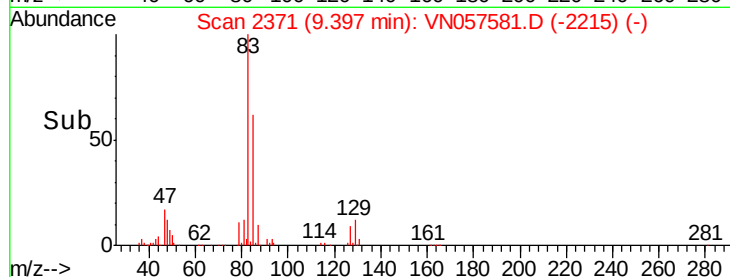
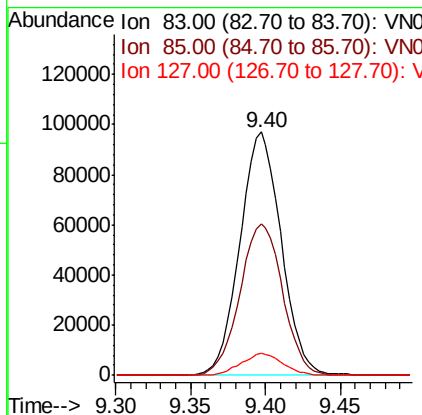
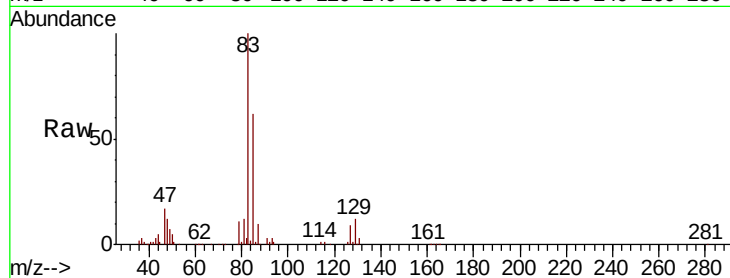
ClientSampleId :

ICVVN083019

Tgt Ion:	83	Resp:	186179
Ion Ratio	Lower	Upper	
83	100		
85	62.0	50.3	75.5
127	8.9	7.4	11.2

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM



#42

Vinyl Acetate

Concen: 98.341 ug/l

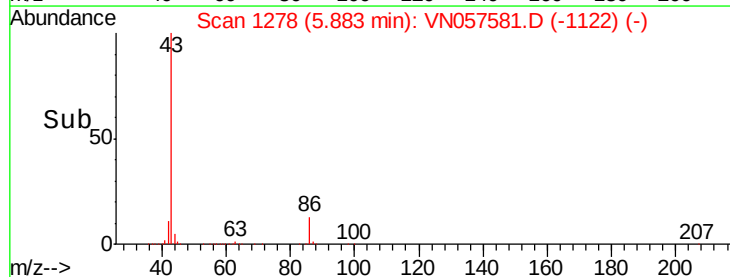
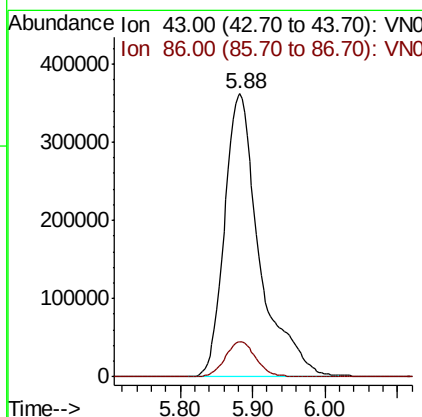
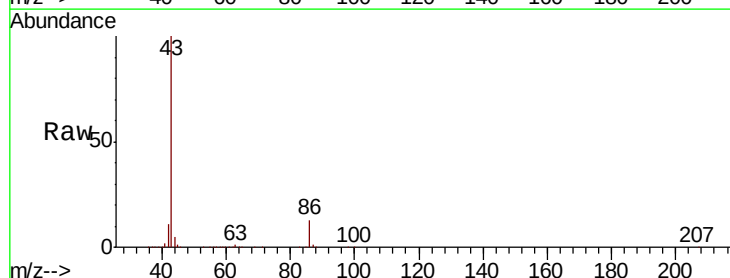
RT: 5.88 min Scan# 1278

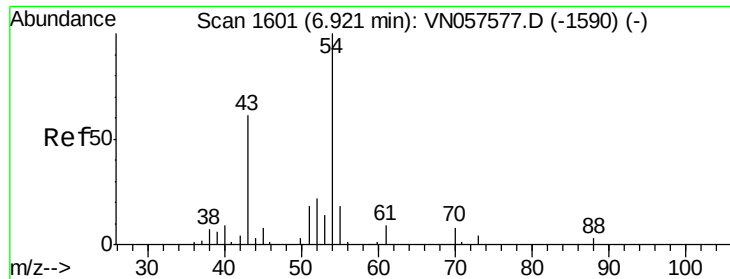
Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Tgt Ion:	43	Resp:	1216260
Ion Ratio	Lower	Upper	
43	100		
86	10.9	8.1	12.1





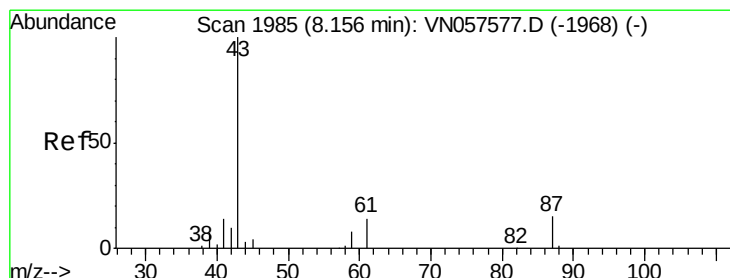
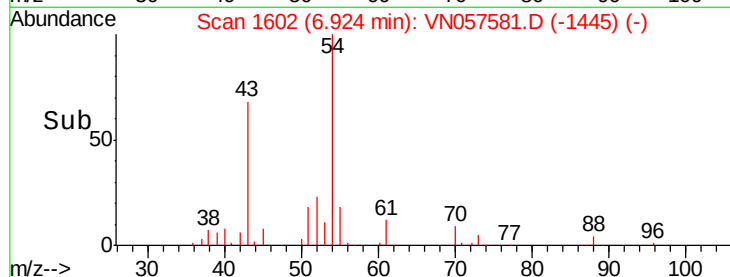
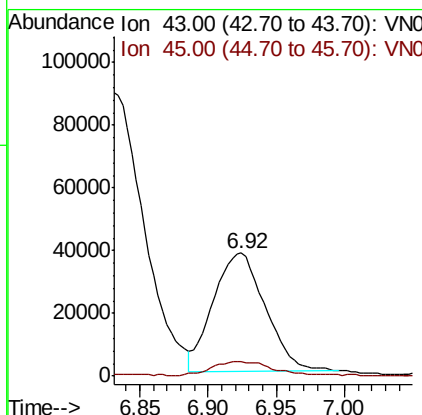
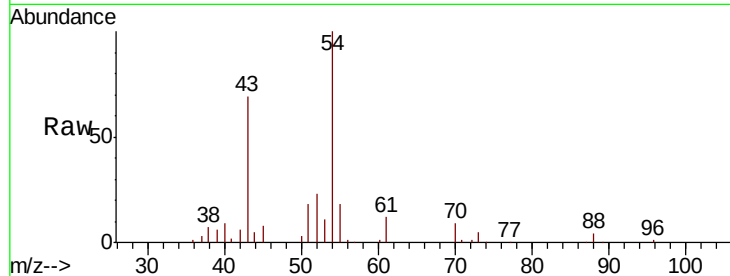
#43
Ethyl Acetate
Concen: 18.749 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

Tgt Ion	Ratio	Lower	Upper
43	100		
45	12.3	9.9	14.9

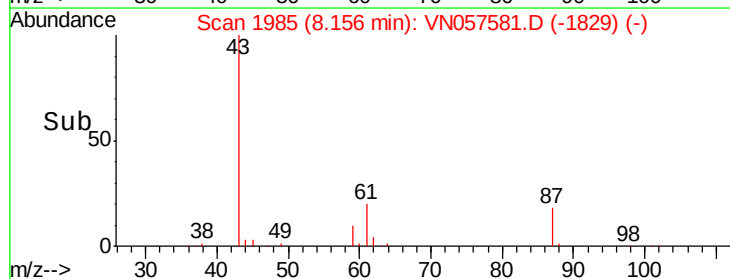
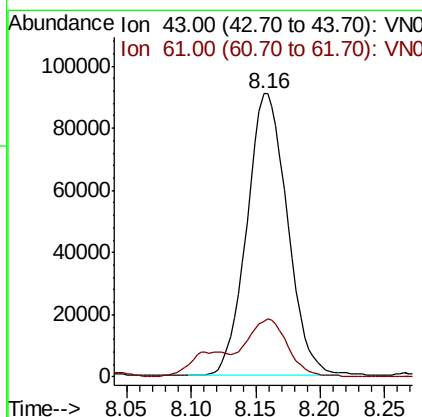
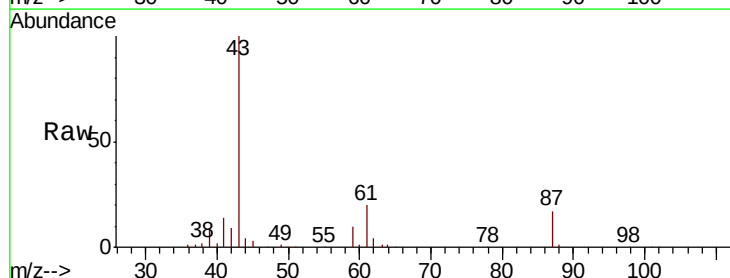
Manual Integrations
APPROVED

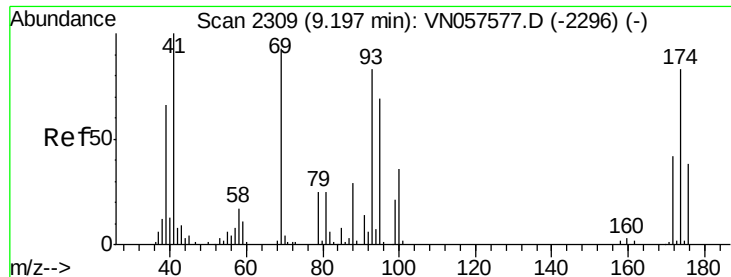
MMDadoda
8/31/2019 10:00:46 AM



#44
Isopropyl Acetate
Concen: 18.557 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Lower	Upper
43	100		
61	19.3	16.0	24.0





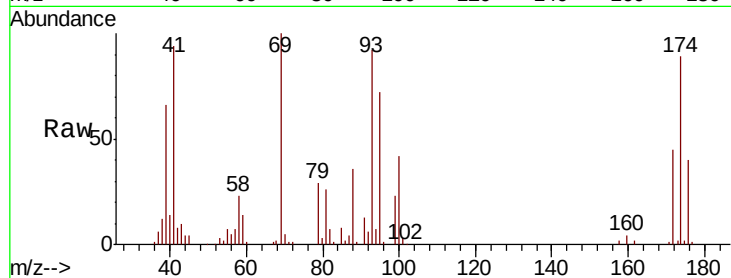
#45
 1,4-Dioxane
 Concen: 418.781 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampled :
 ICVVN083019

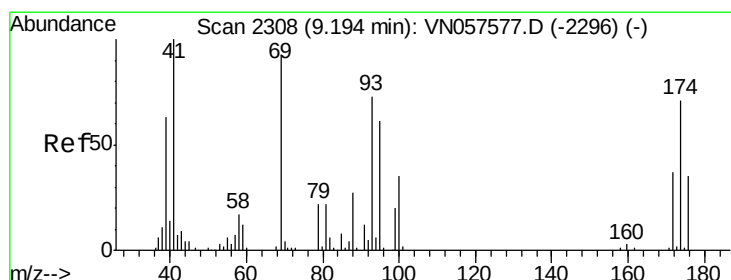
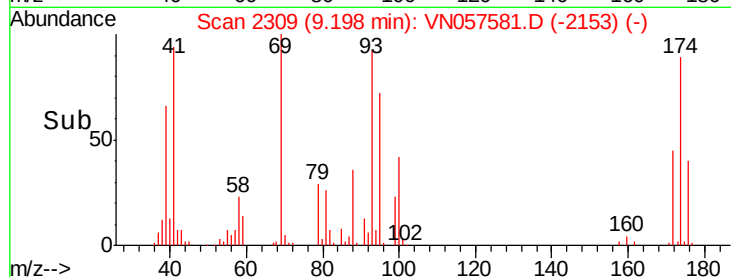
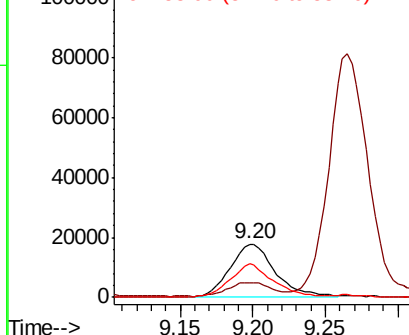
Tgt Ion	Ratio	Lower	Upper
88	100		
43	24.9	18.2	27.4
58	59.5	45.0	67.6

Manual Integrations
 APPROVED

MMDadoda
 8/31/2019 10:00:46 AM

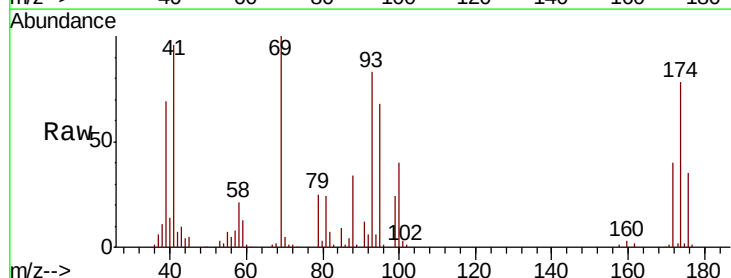


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

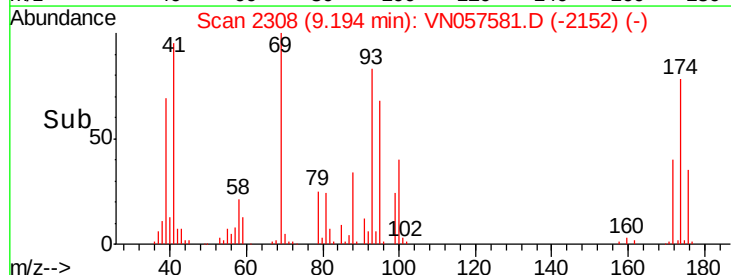
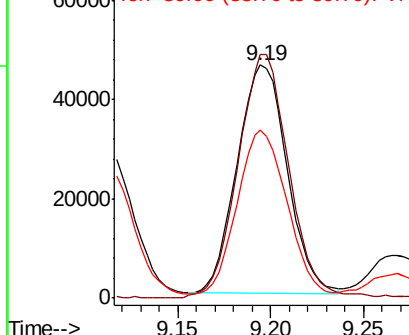


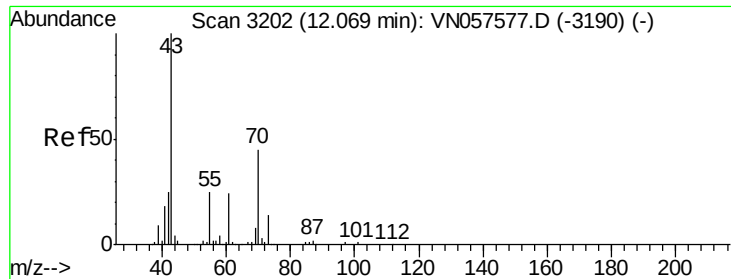
#46
 Methyl methacrylate
 Concen: 17.369 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Lower	Upper
41	100		
69	105.5	46.4	139.1
39	72.1	31.6	94.8



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





#47

n-amyI Acetate

Concen: 18.237 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

ClientSampleId :

ICVVN083019

Tgt Ion: 43 Resp: 162151

Ion Ratio Lower Upper

43 100

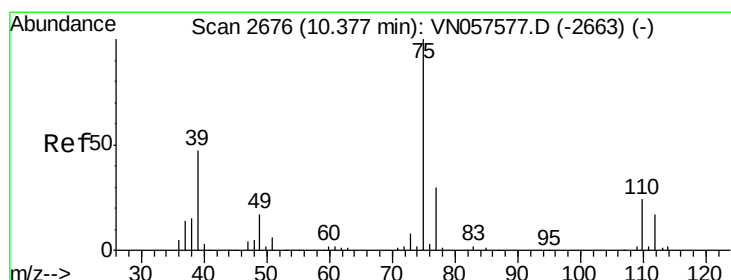
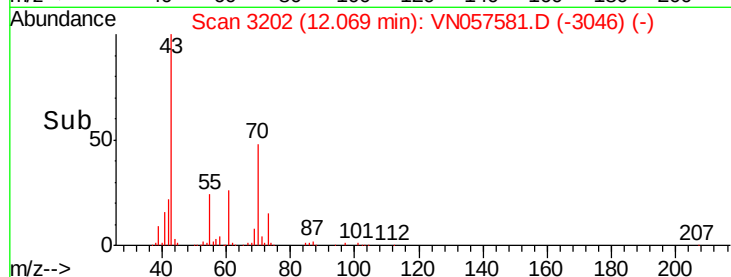
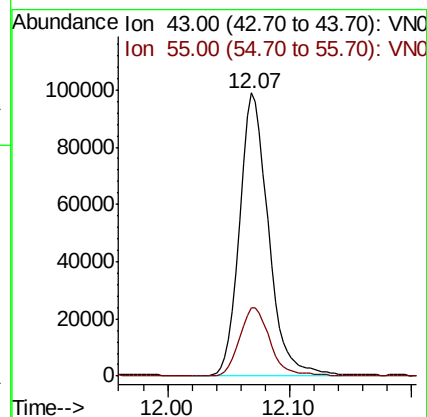
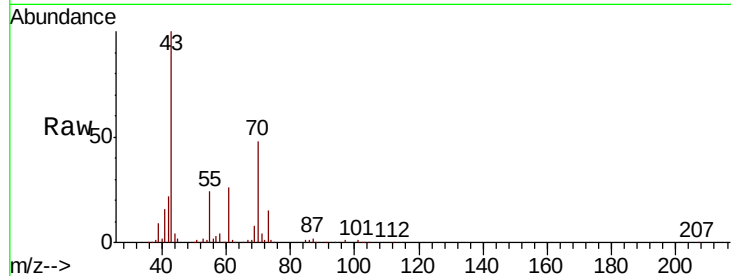
55 25.6 20.2 30.2

Manual Integrations

APPROVED

MMDadoda

8/31/2019 10:00:46 AM



#48

t-1,3-Dichloropropene

Concen: 18.448 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN057581.D

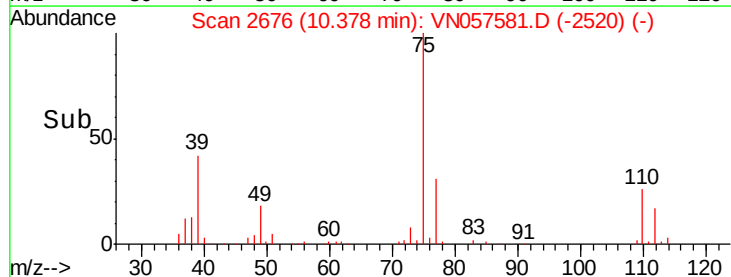
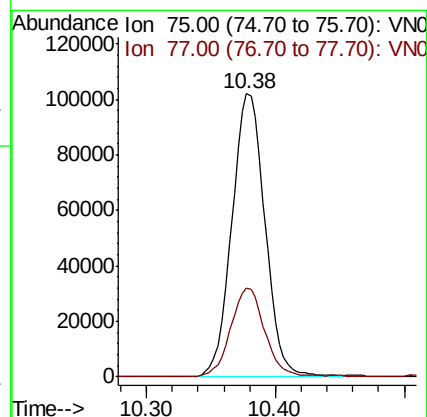
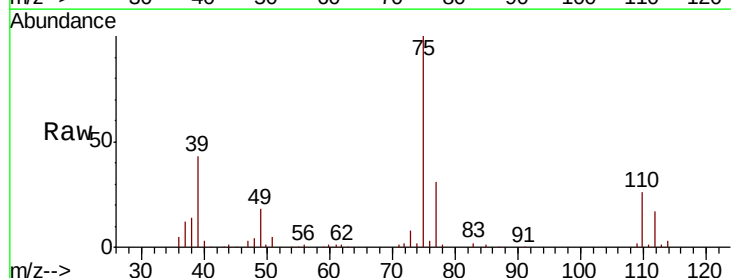
Acq: 30 Aug 2019 11:15

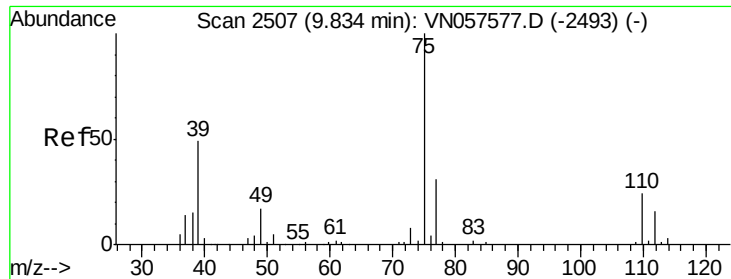
Tgt Ion: 75 Resp: 181870

Ion Ratio Lower Upper

75 100

77 31.0 23.8 35.6





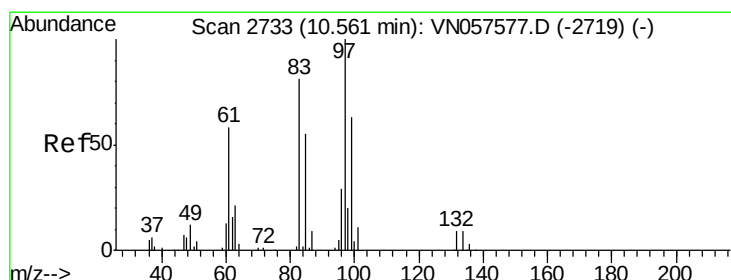
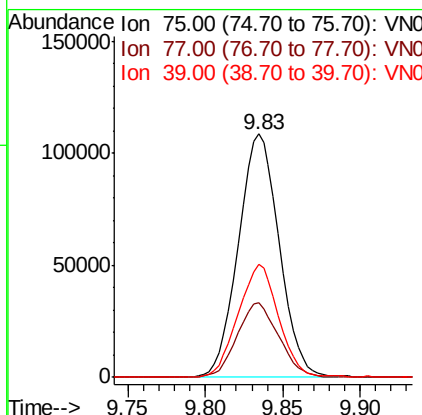
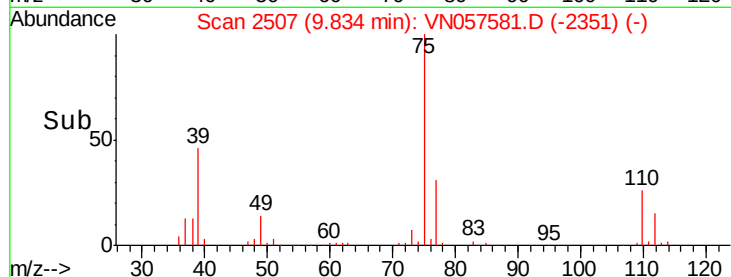
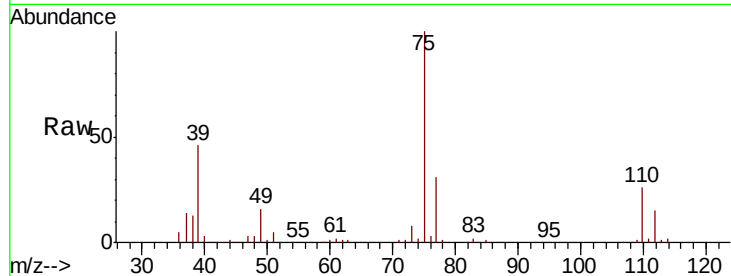
#49
 cis-1,3-Dichloropropene
 Concen: 18.686 ug/l
 RT: 9.83 min Scan# 2507
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampled :
 ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	199510		
77	30.6	25.0	37.4	
39	45.9	39.0	58.4	

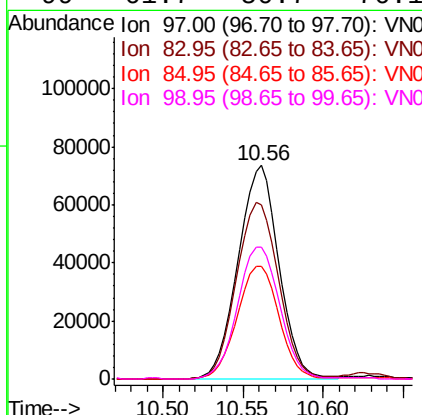
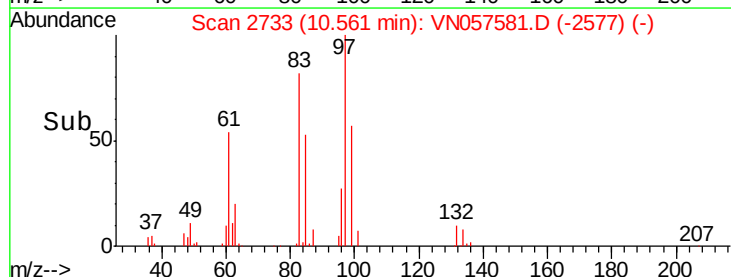
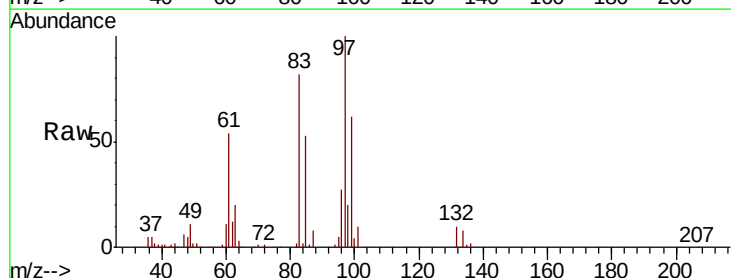
Manual Integrations
 APPROVED

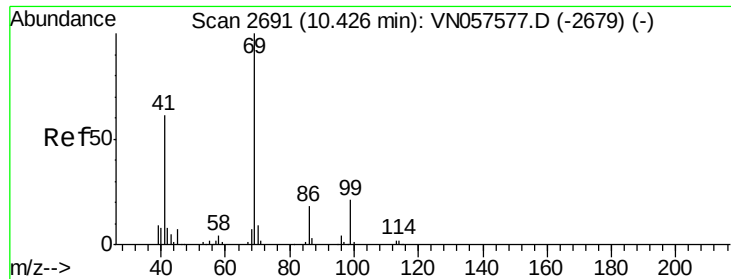
MMDadoda
 8/31/2019 10:00:46 AM



#50
 1,1,2-Trichloroethane
 Concen: 18.497 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	127976		
83	81.6	65.1	97.7	
85	52.6	43.7	65.5	
99	61.7	50.7	76.1	





#51

Ethyl methacrylate

Concen: 18.659 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

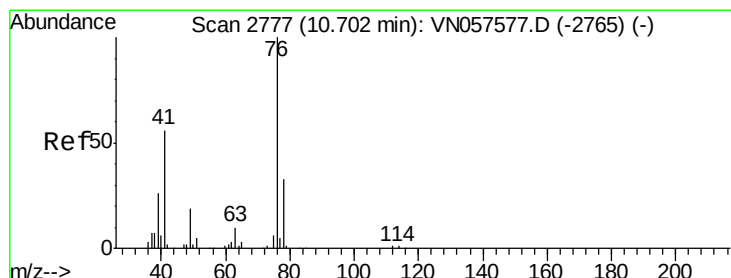
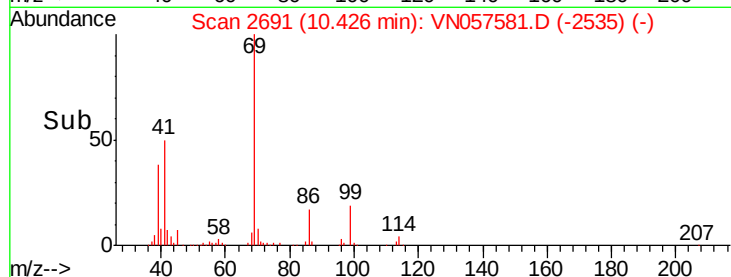
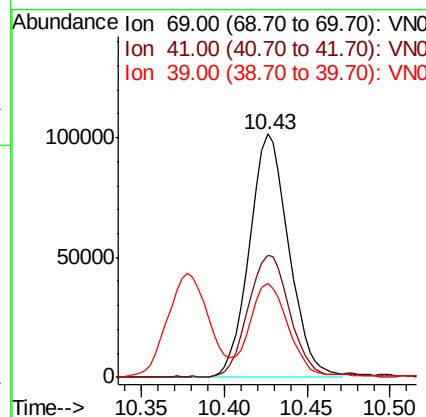
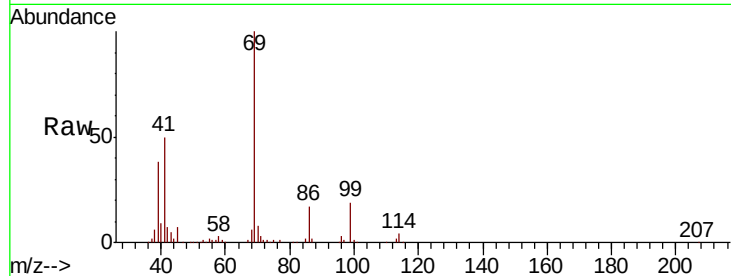
ClientSampleId :

ICVVN083019

Tgt Ion:	69	Resp:	168029
Ion	Ratio	Lower	Upper
69	100		
41	49.8	30.6	92.0
39	37.4	22.3	66.9

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM



#52

1,3-Dichloropropane

Concen: 18.720 ug/l

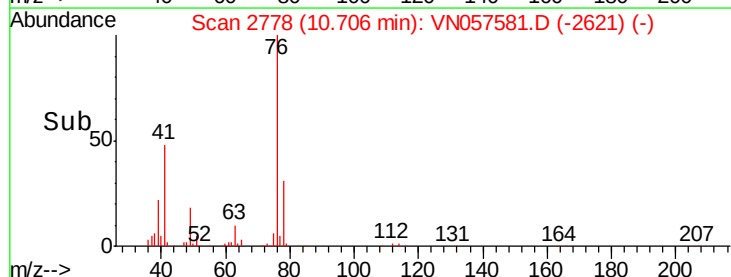
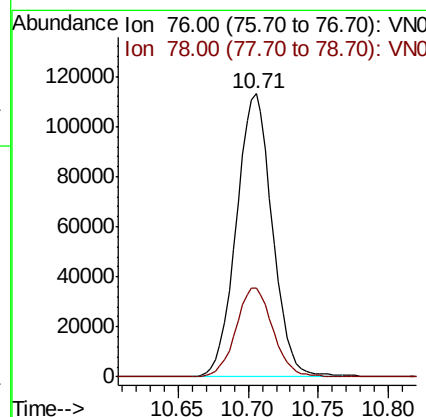
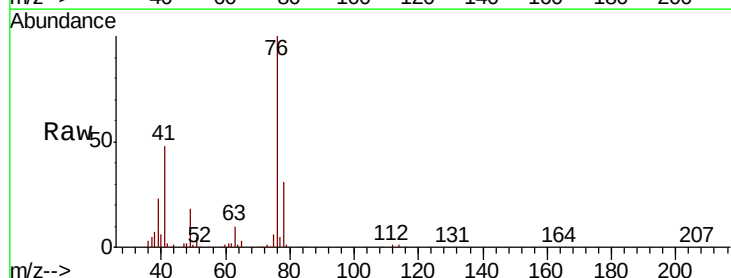
RT: 10.71 min Scan# 2778

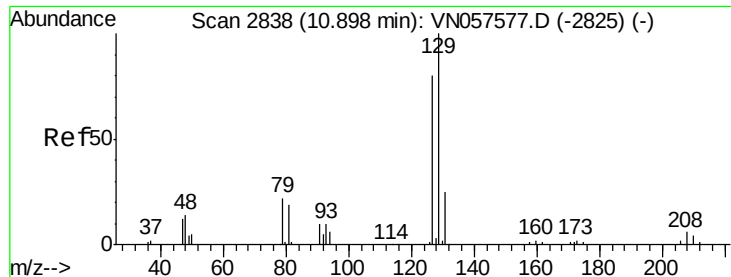
Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Tgt Ion:	76	Resp:	201812
Ion	Ratio	Lower	Upper
76	100		
78	32.5	0.0	67.0





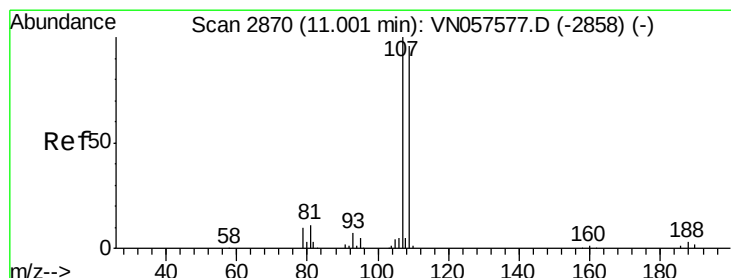
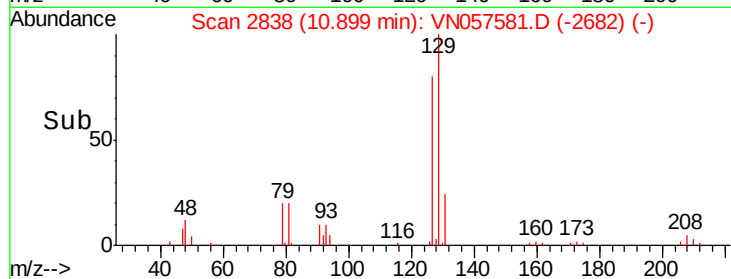
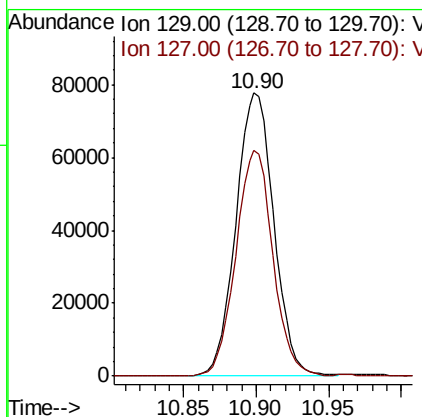
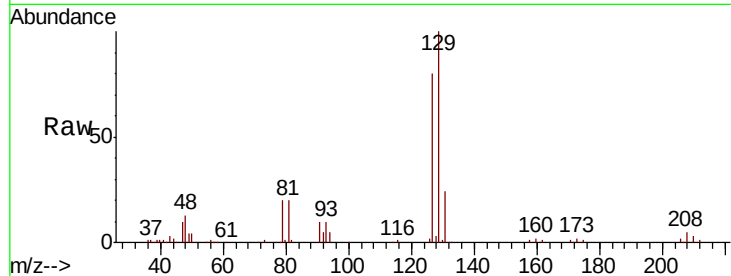
#53
Dibromochloromethane
Concen: 18.156 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

Tgt Ion:129 Resp: 141436
Ion Ratio Lower Upper
129 100
127 77.8 38.9 116.7

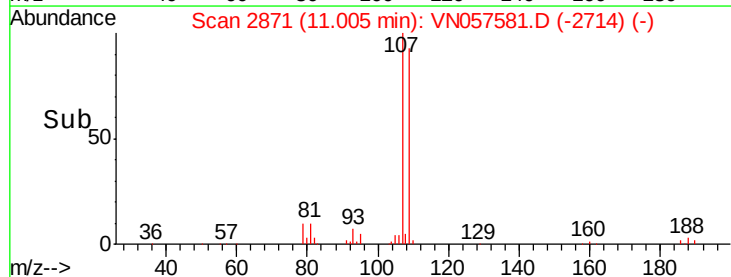
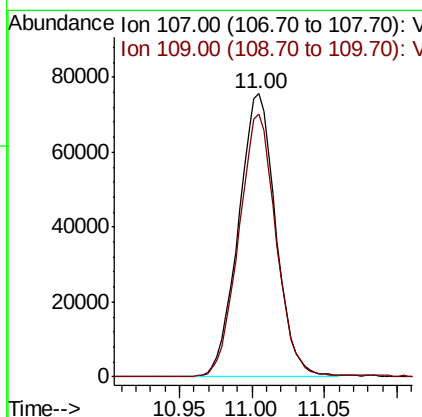
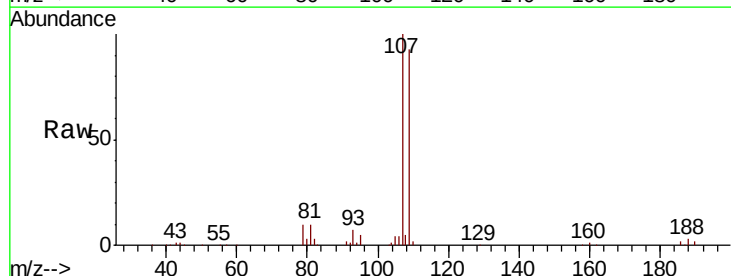
Manual Integrations
APPROVED

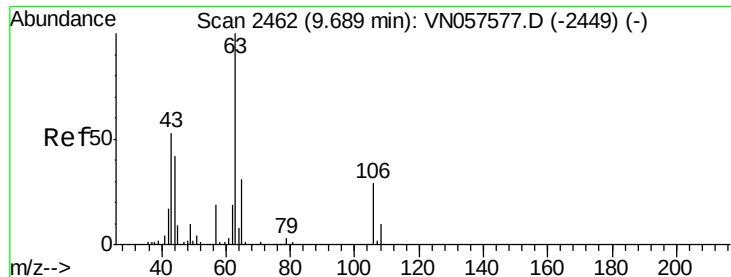
MMDadoda
8/31/2019 10:00:46 AM



#54
1,2-Dibromoethane
Concen: 18.885 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion:107 Resp: 135428
Ion Ratio Lower Upper
107 100
109 92.5 75.2 112.8





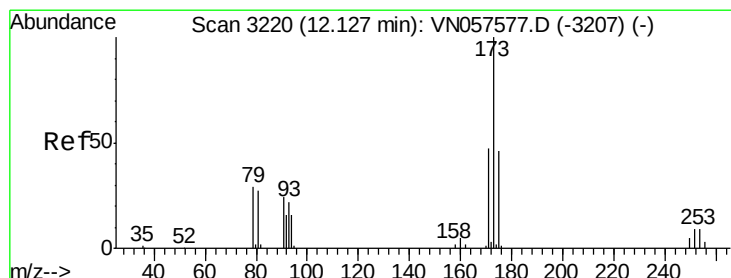
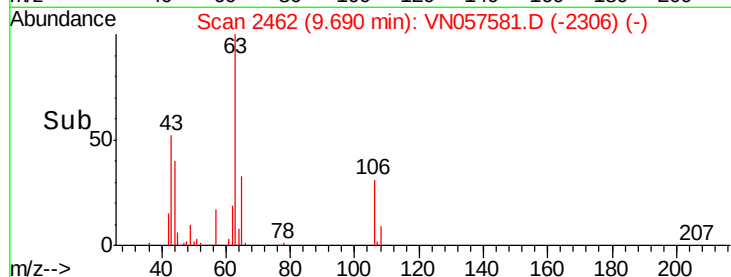
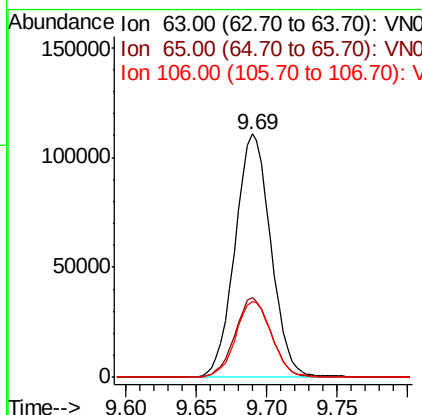
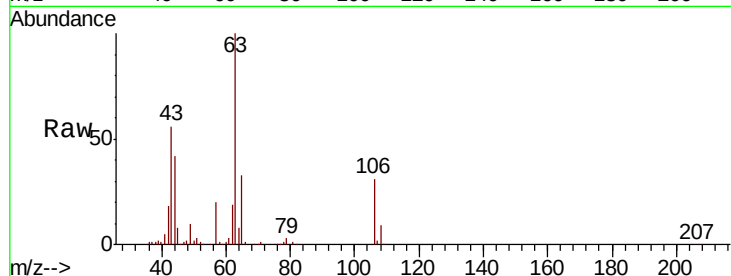
#55
 2-Chloroethyl vinyl ether
 Concen: 89.174 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN083019

Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.9	25.0	37.4
106	31.5	23.7	35.5

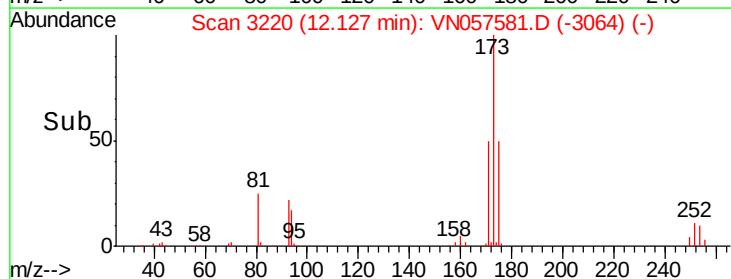
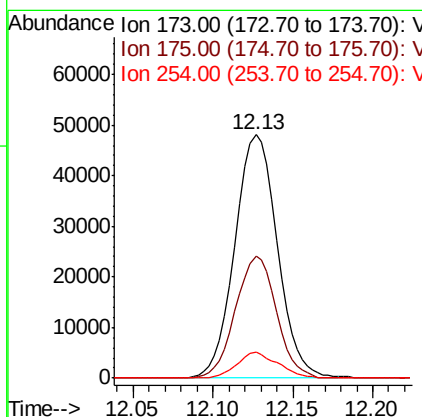
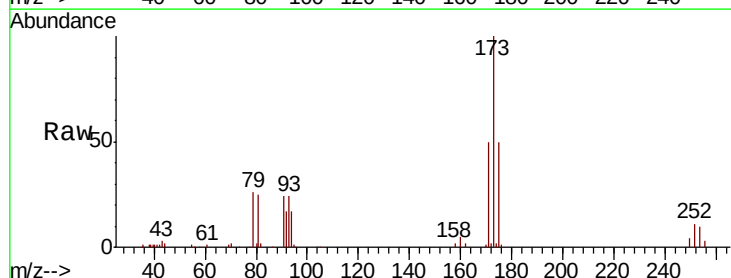
Manual Integrations
 APPROVED

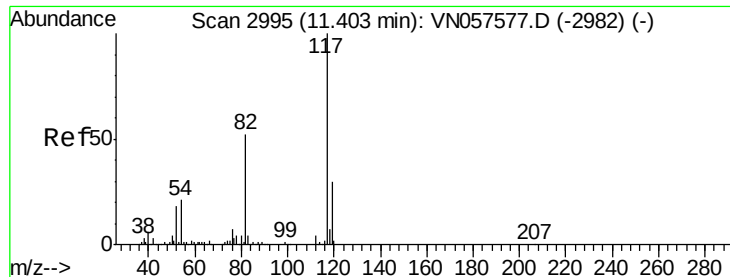
MMDadoda
 8/31/2019 10:00:46 AM



#56
 Bromoform
 Concen: 17.138 ug/l
 RT: 12.13 min Scan# 3220
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.8	37.3	55.9
254	10.1	2.2	3.2#





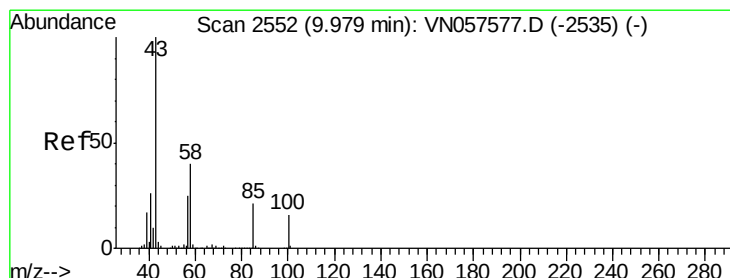
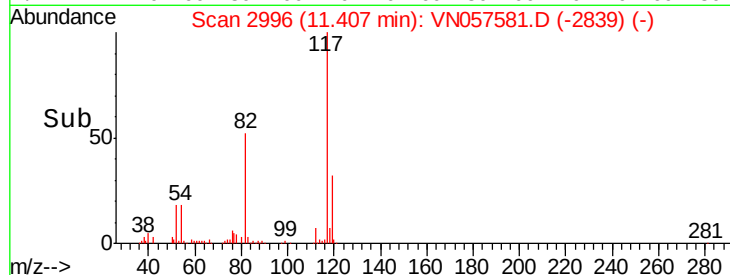
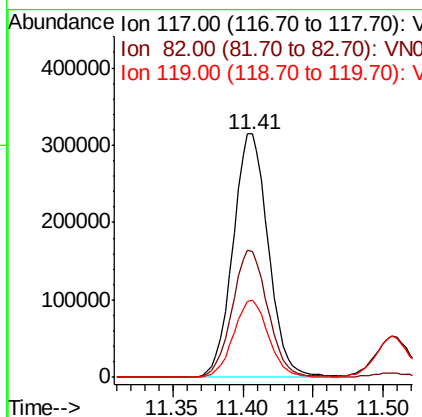
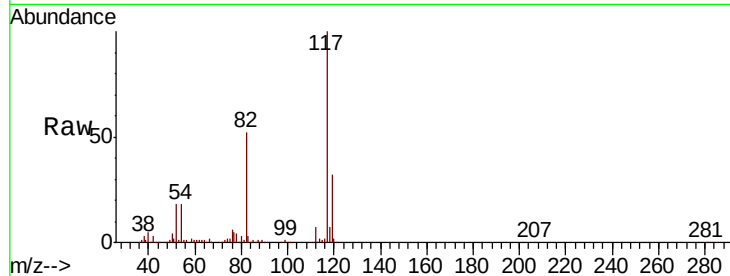
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampled :
ICVVN083019

Tgt Ion	Ratio	Resp Lower	Resp Upper
117	100		
82	52.9	42.6	63.8
119	31.4	25.0	37.6

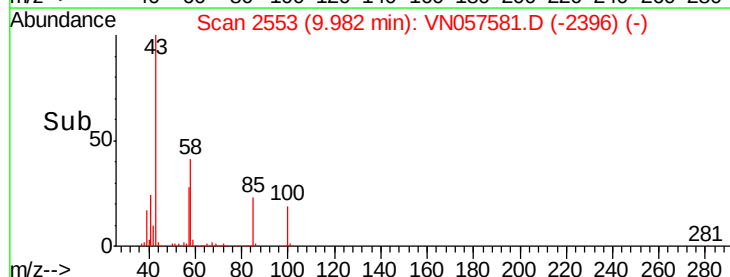
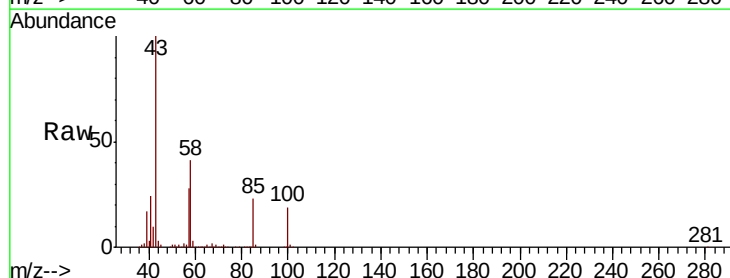
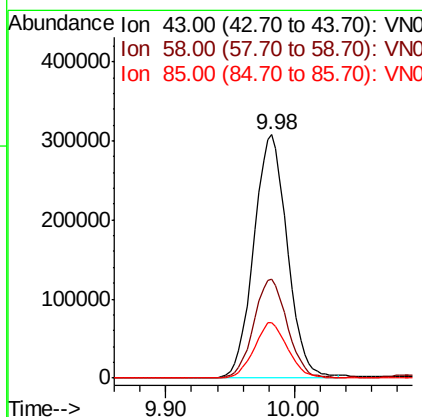
Manual Integrations
APPROVED

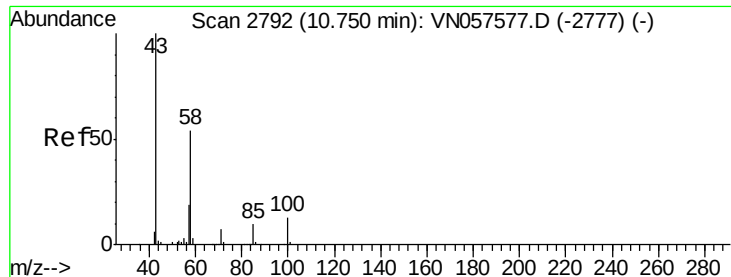
MMDadoda
8/31/2019 10:00:46 AM



#58
4-Methyl-2-Pentanone
Concen: 99.765 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp Lower	Resp Upper
43	100		
58	41.0	32.1	48.1
85	22.9	16.6	24.8





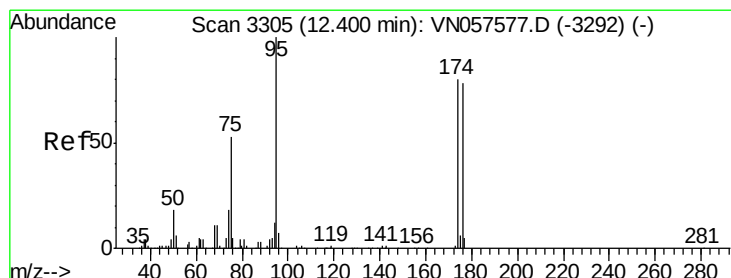
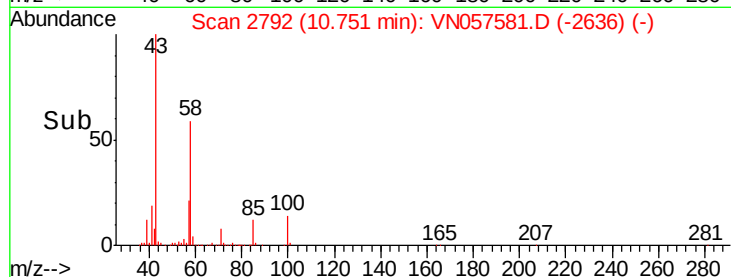
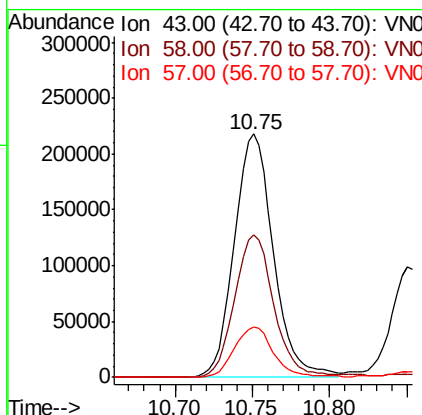
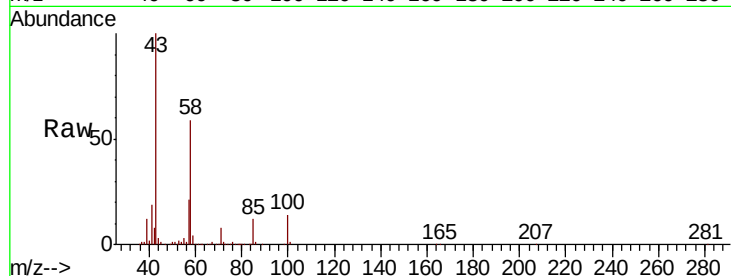
#59
2-Hexanone
Concen: 96.380 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

Tgt Ion	Ratio	Lower	Upper
43	100		
58	59.1	42.9	64.3
57	21.0	15.4	23.2

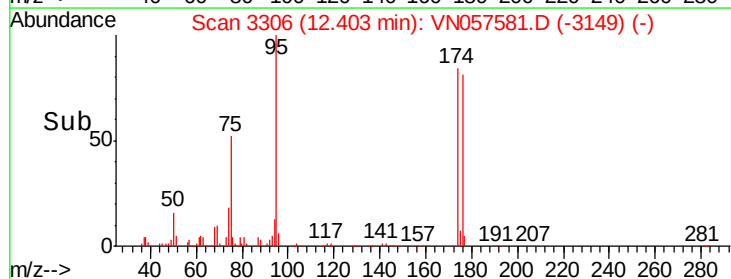
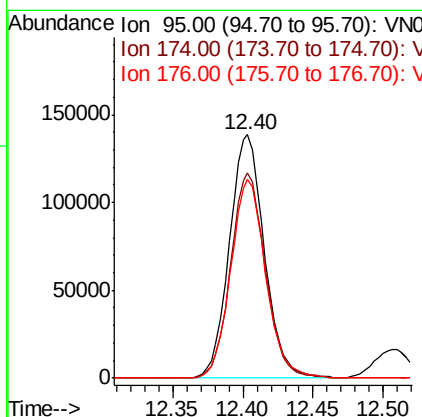
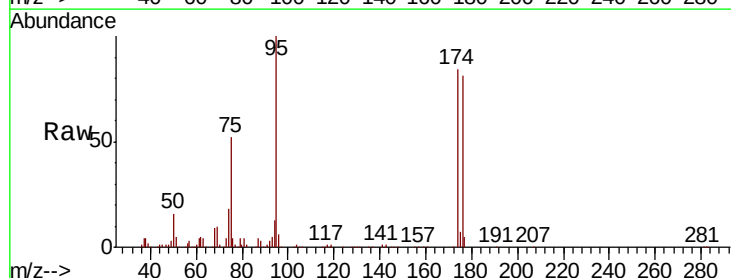
Manual Integrations
APPROVED

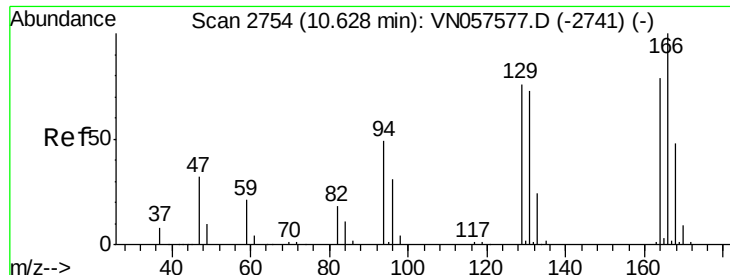
MMDadoda
8/31/2019 10:00:46 AM



#60
4-Bromofluorobenzene
Concen: 28.621 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Lower	Upper
95	100		
174	83.9	66.2	99.2
176	81.7	65.0	97.6





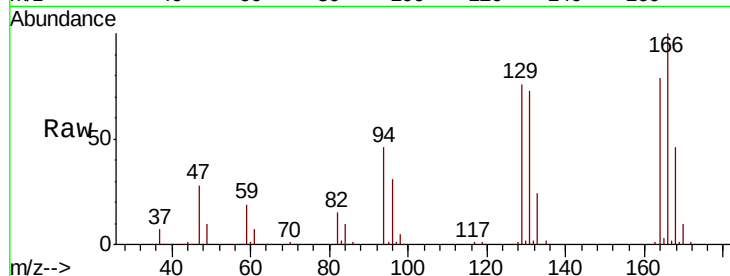
#61
Tetrachloroethene
Concen: 19.667 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	127.1	138931	100.7	151.1
129	96.1		76.3	114.5
131	93.1		73.8	110.6

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM



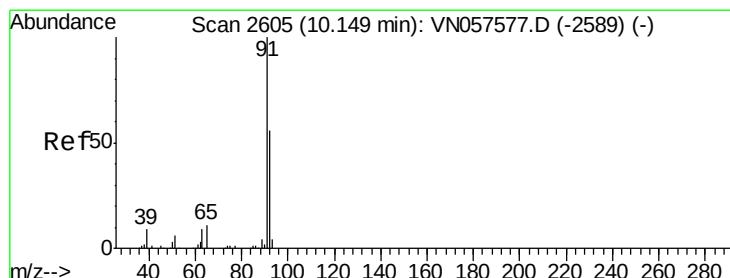
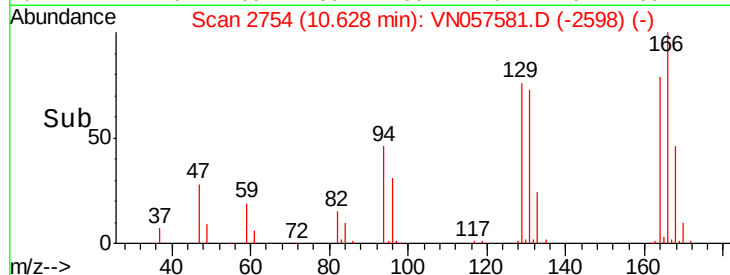
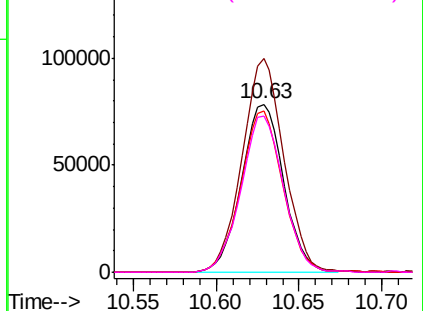
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

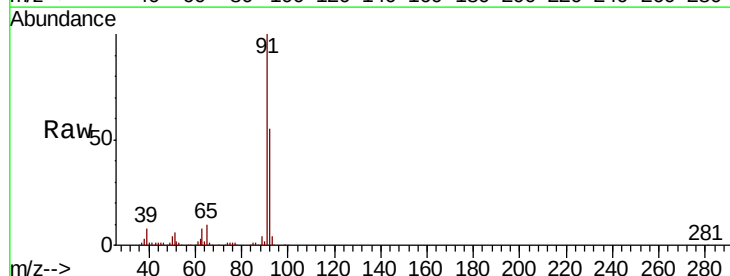
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62
Toluene
Concen: 20.849 ug/l
RT: 10.15 min Scan# 2605
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

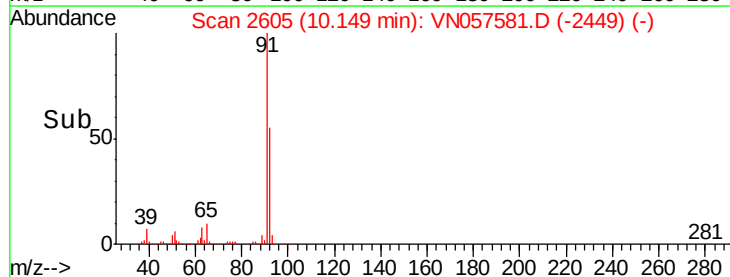
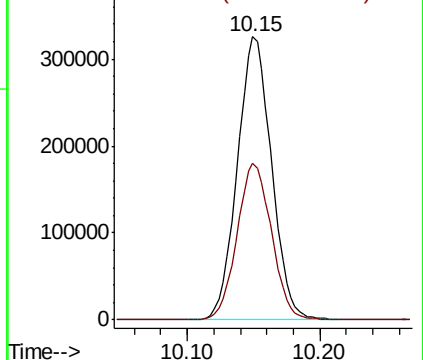
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	584139		
92	55.8		45.4	68.2

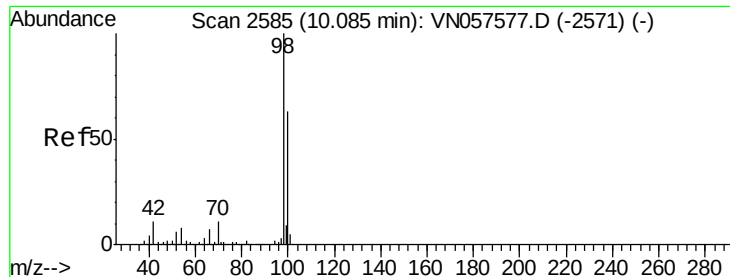


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 30.182 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

ClientSampleId :

ICVVN083019

Tgt Ion: 98 Resp: 772344

Ion Ratio Lower Upper

98 100

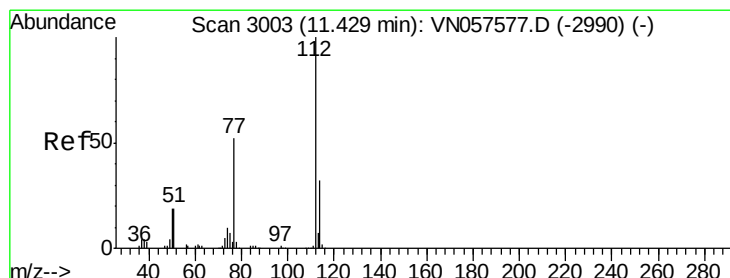
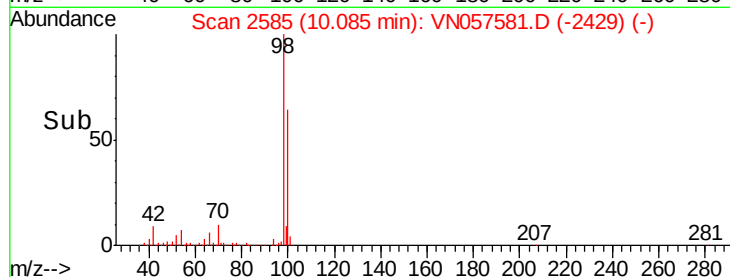
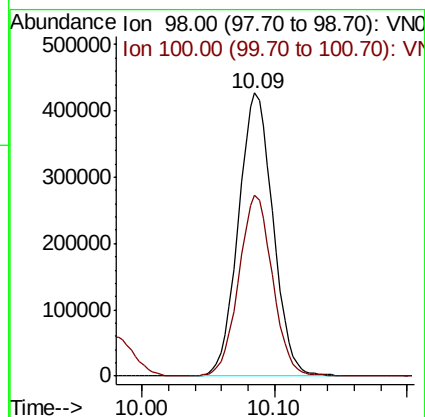
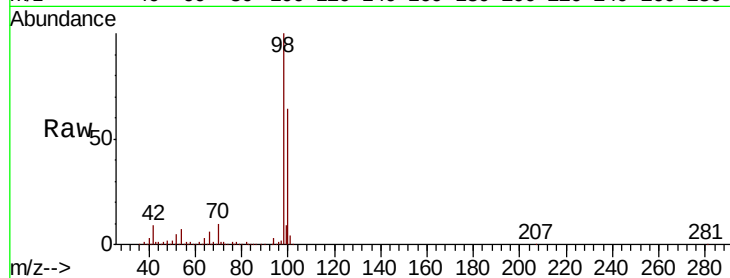
100 62.5 50.2 75.2

Manual Integrations

APPROVED

MMDadoda

8/31/2019 10:00:46 AM



#64

Chlorobenzene

Concen: 19.830 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN057581.D

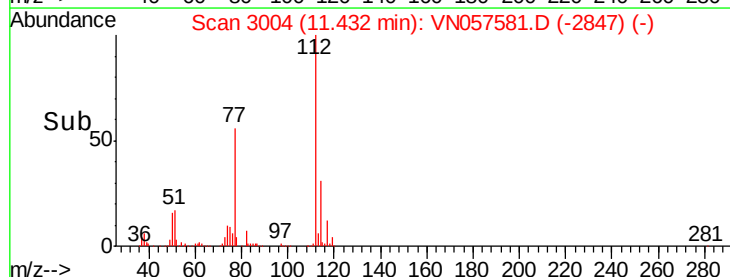
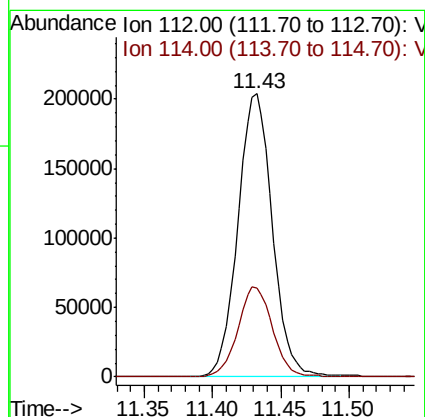
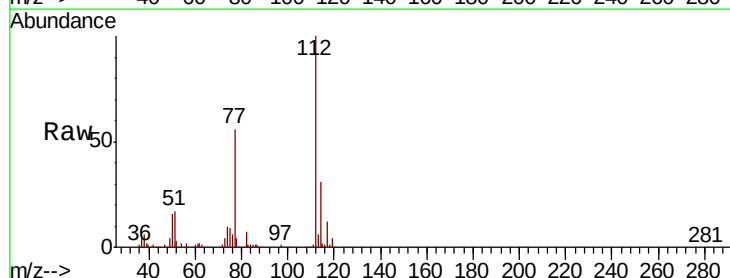
Acq: 30 Aug 2019 11:15

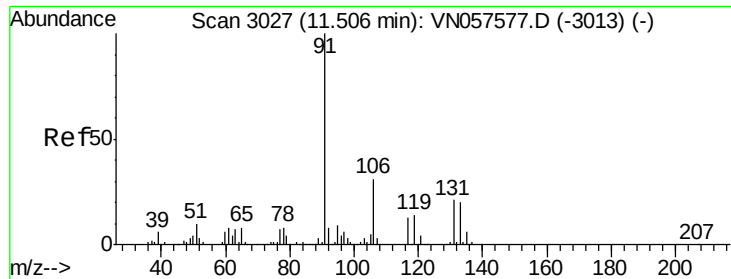
Tgt Ion: 112 Resp: 357787

Ion Ratio Lower Upper

112 100

114 31.4 25.4 38.2





#65

1,1,1,2-Tetrachloroethane

Concen: 19.395 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

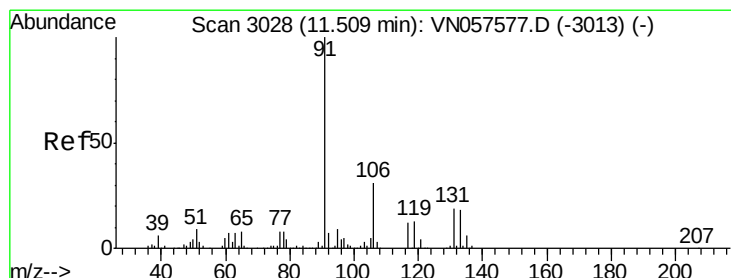
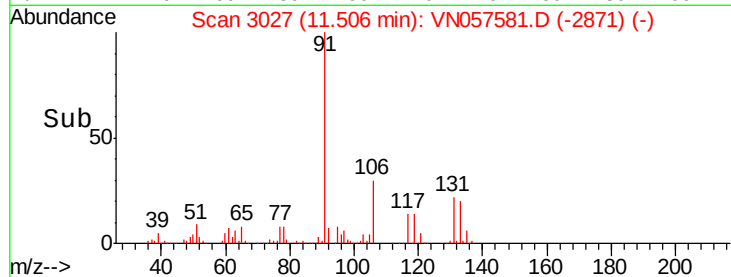
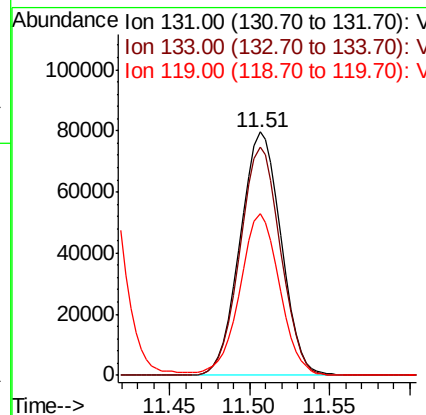
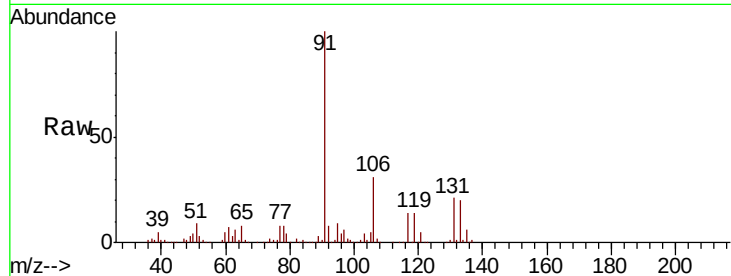
ClientSampled :

ICVVN083019

Tgt Ion:	131	Resp:	138868
Ion Ratio	Lower	Upper	
131	100		
133	92.8	0.0	186.0
119	64.6	0.0	134.6

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM



#66

Ethyl Benzene

Concen: 21.274 ug/l

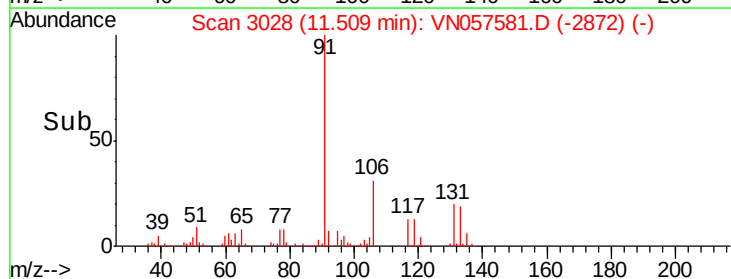
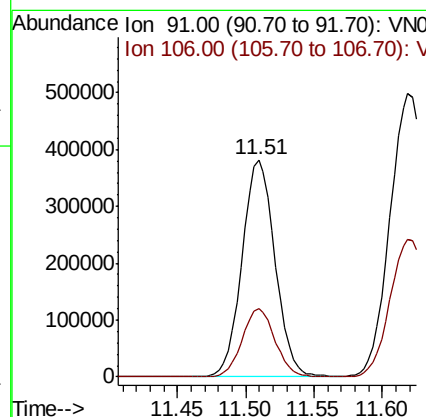
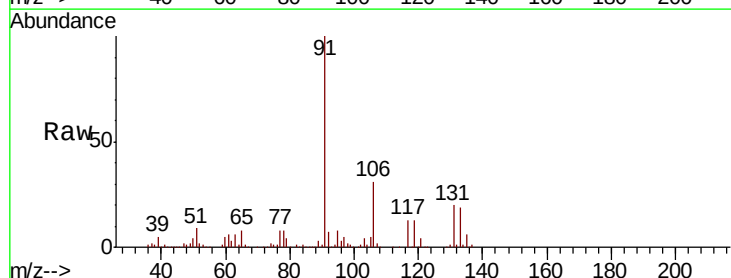
RT: 11.51 min Scan# 3028

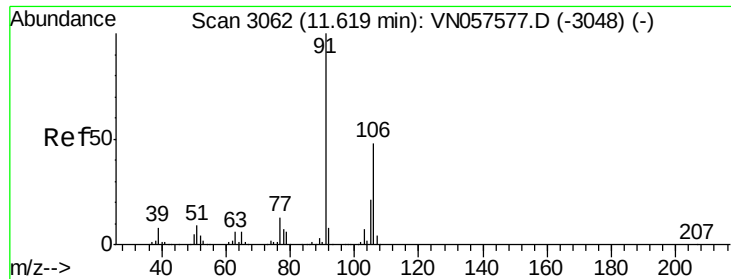
Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Tgt Ion:	91	Resp:	641228
Ion Ratio	Lower	Upper	
91	100		
106	31.4	24.7	37.1





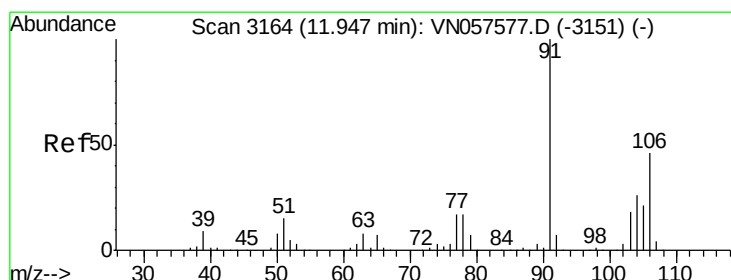
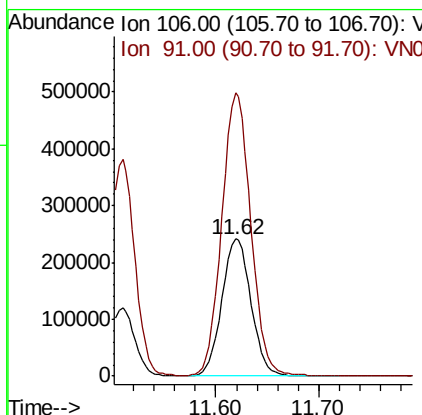
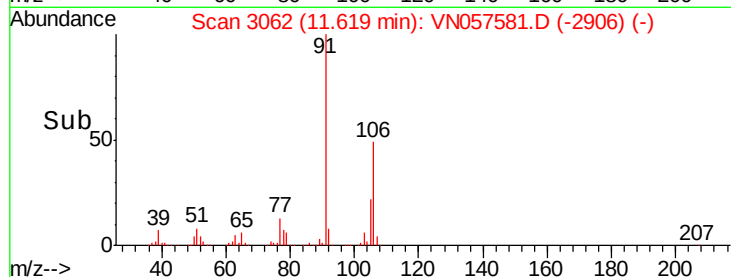
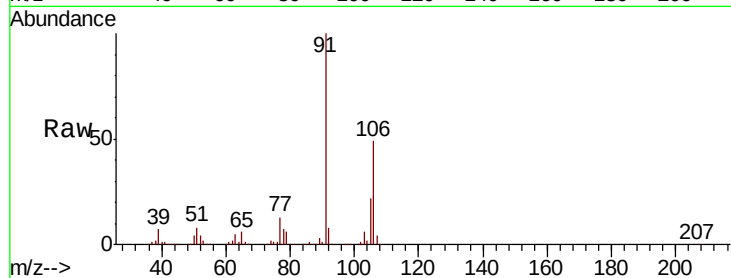
#67
m/p-Xylenes
Concen: 39.553 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampled :
ICVVN083019

Tgt Ion:106 Resp: 476990
Ion Ratio Lower Upper
106 100
91 204.6 164.1 246.1

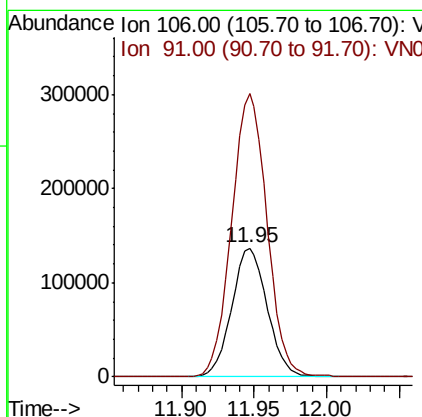
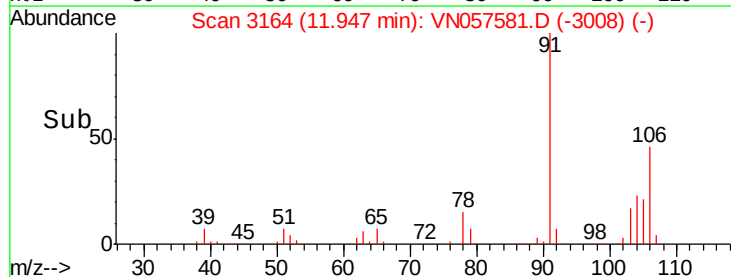
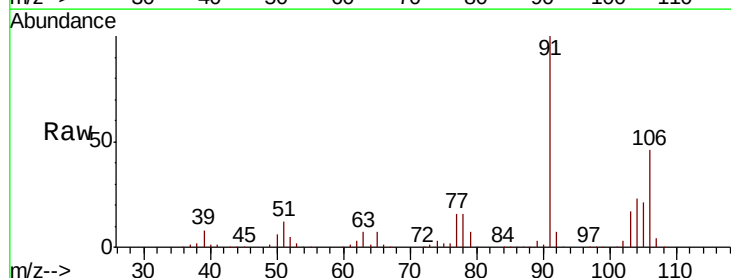
Manual Integrations
APPROVED

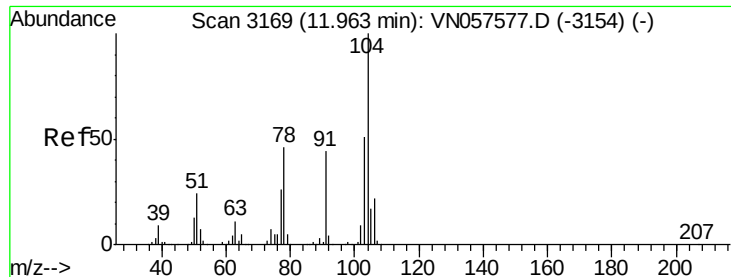
MMDadoda
8/31/2019 10:00:46 AM



#68
o-Xylene
Concen: 19.153 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion:106 Resp: 232076
Ion Ratio Lower Upper
106 100
91 219.2 107.8 323.6





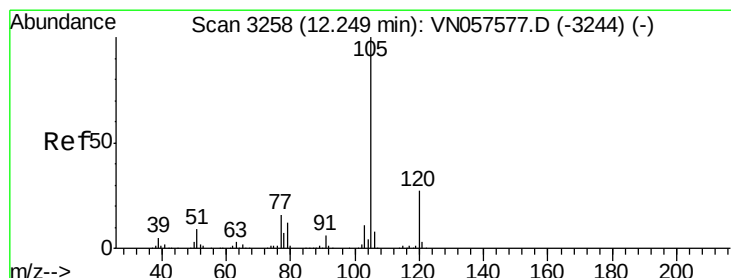
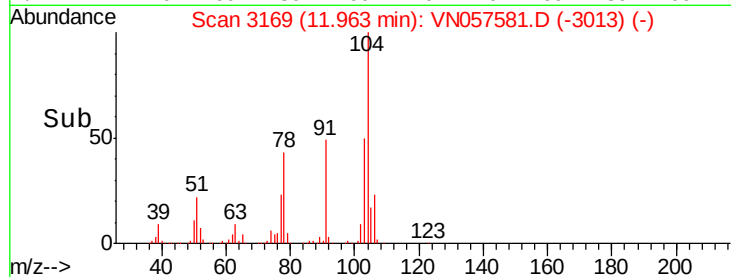
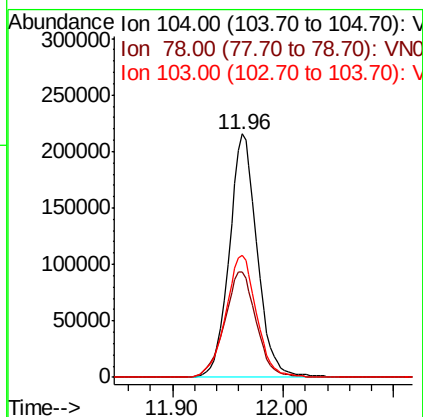
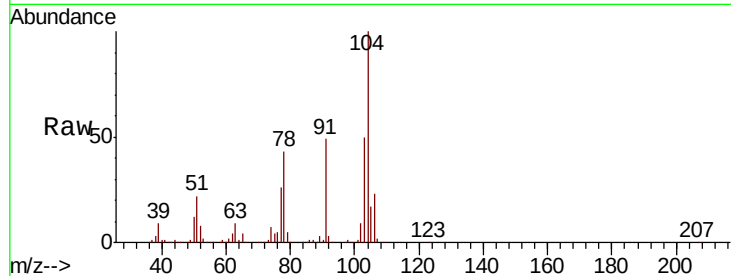
#69
Styrene
 Concen: 19.646 ug/l
 RT: 11.96 min Scan# 3169
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	377295		
78	49.4		41.4	62.0
103	55.4		44.8	67.2

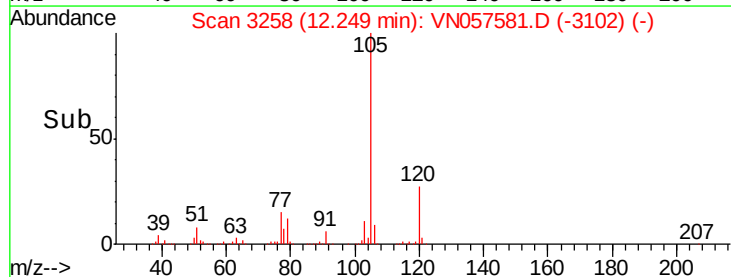
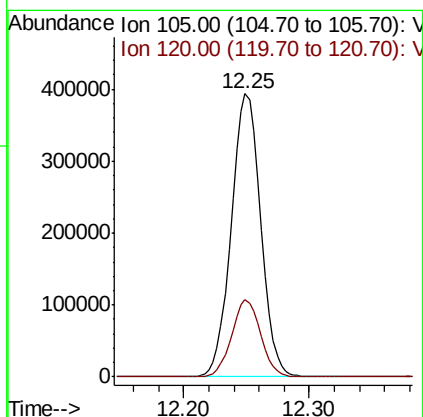
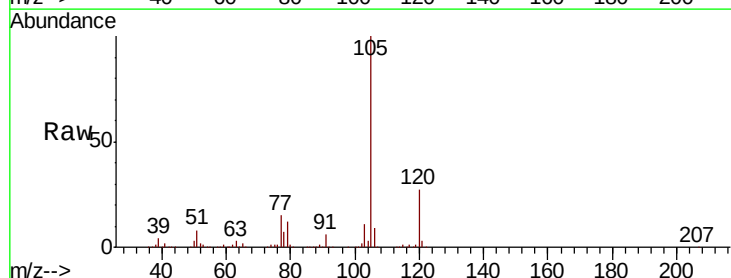
Manual Integrations
 APPROVED

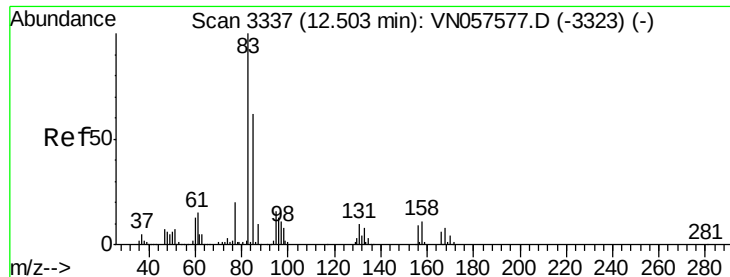
MMDadoda
 8/31/2019 10:00:46 AM



#70
Isopropylbenzene
 Concen: 21.074 ug/l
 RT: 12.25 min Scan# 3258
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	640082		
120	26.9		18.7	34.7





#71

1,1,2,2-Tetrachloroethane

Concen: 19.537 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

ClientSampleId :

ICVVN083019

Tgt Ion: 83 Resp: 157836
Ion Ratio Lower Upper

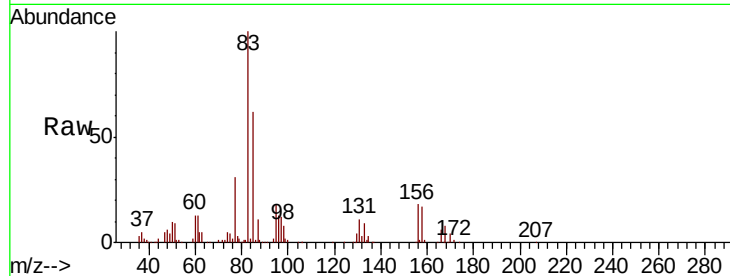
83 100

131 11.2 5.2 15.6

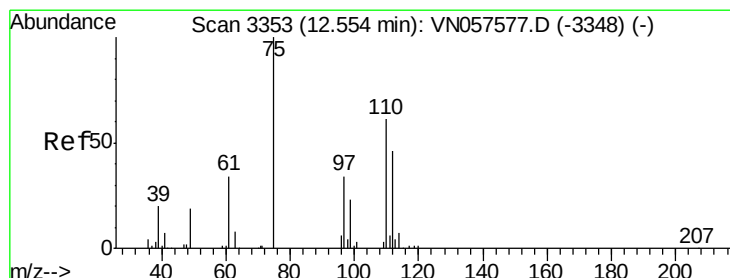
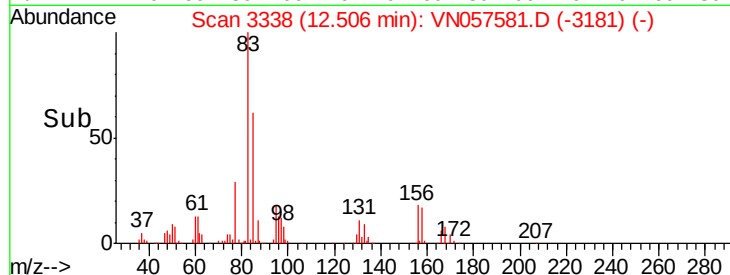
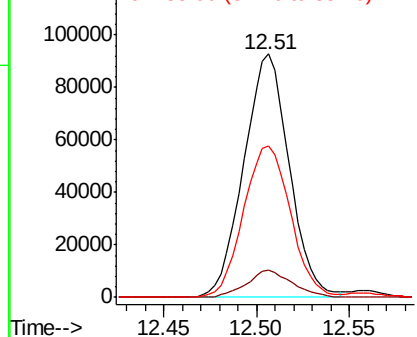
85 64.1 31.6 94.8

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM



Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VN0



#72

1,2,3-Trichloropropane

Concen: 19.515 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

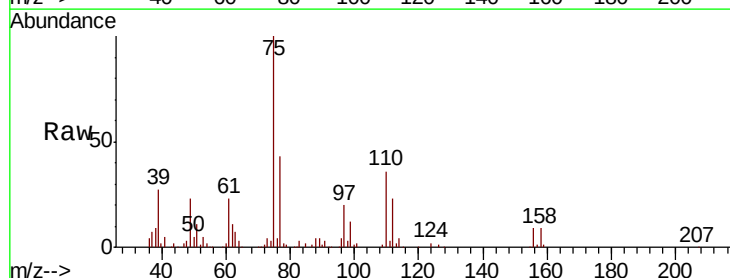
Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

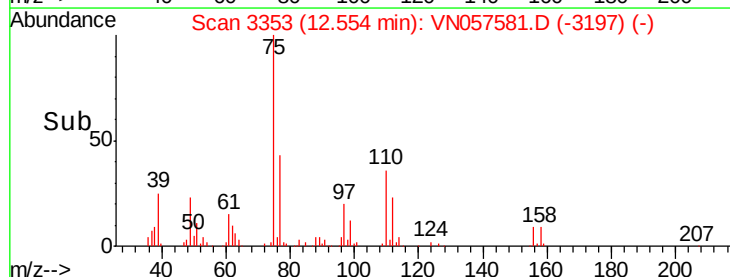
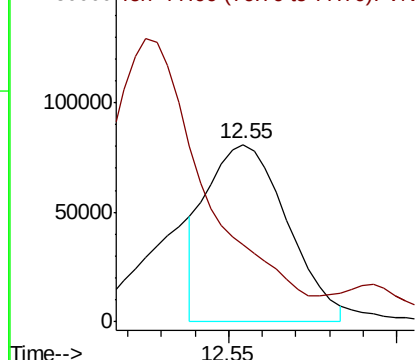
Tgt Ion: 75 Resp: 133839
Ion Ratio Lower Upper

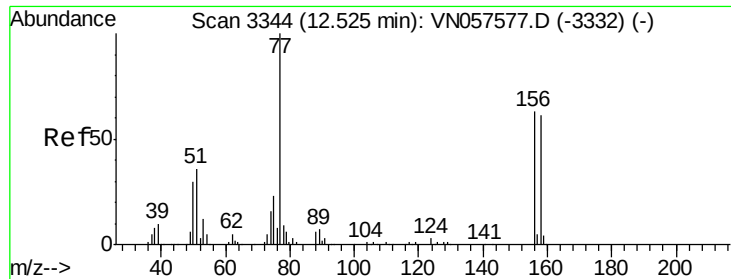
75 100

77 204.0 0.0 399.2



Abundance Ion 75.00 (74.70 to 75.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





#73

Bromobenzene

Concen: 19.439 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

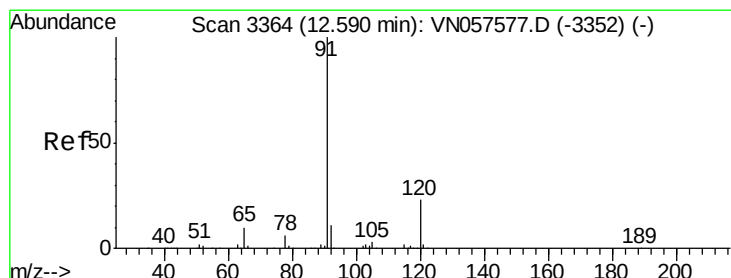
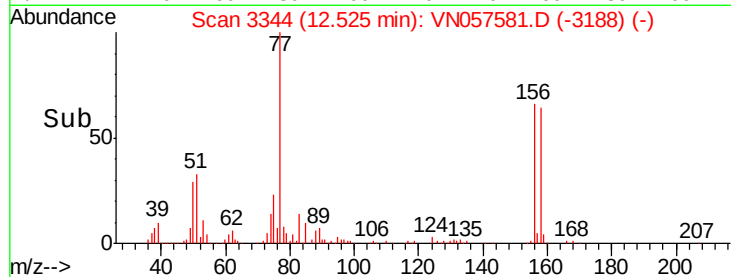
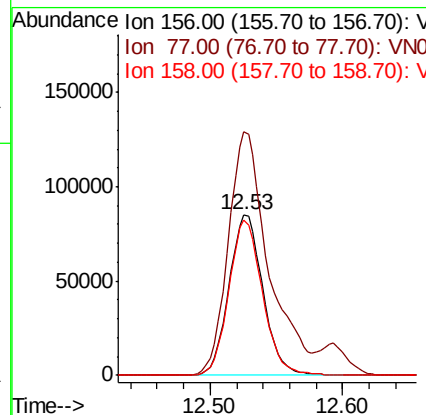
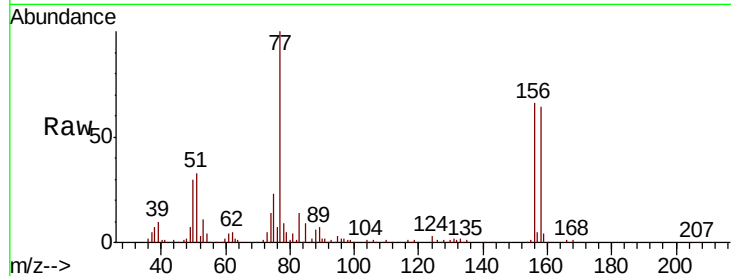
ClientSampled :

ICVVN083019

Tgt Ion:	156	Resp:	150931
Ion Ratio	Lower	Upper	
156	100		
77	180.9	0.0	374.6
158	96.2	0.0	197.4

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM



#74

n-propylbenzene

Concen: 21.437 ug/l

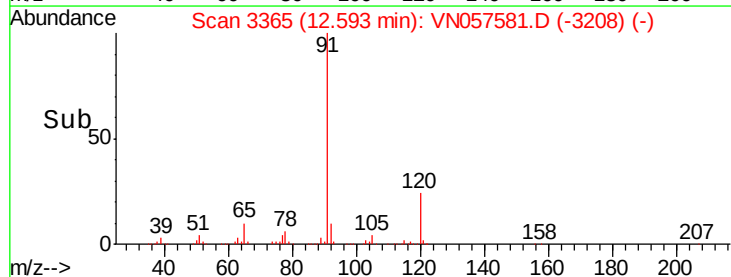
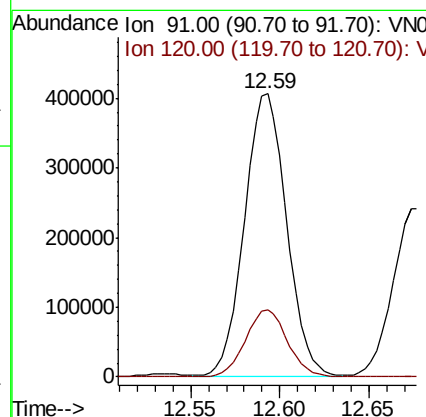
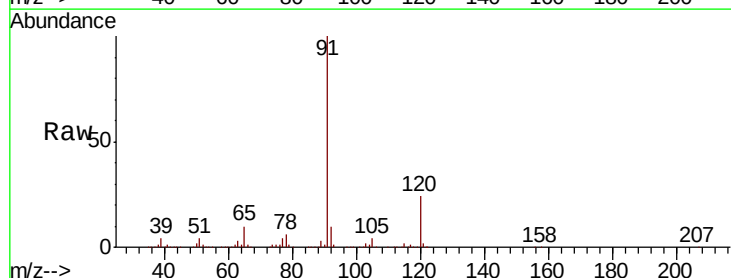
RT: 12.59 min Scan# 3365

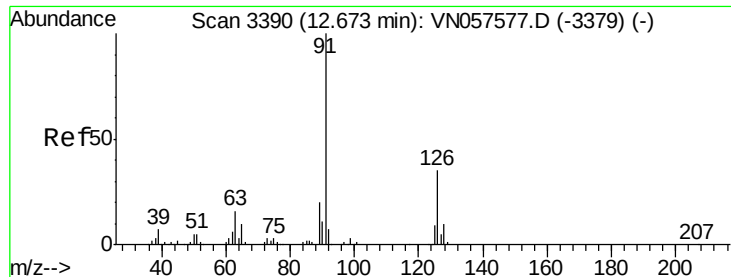
Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Tgt Ion:	91	Resp:	671190
Ion Ratio	Lower	Upper	
91	100		
120	23.5	0.0	46.6





#75

2-Chlorotoluene

Concen: 20.123 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

ClientSampled :

ICVVN083019

Tgt Ion: 91 Resp: 406950

Ion Ratio Lower Upper

91 100

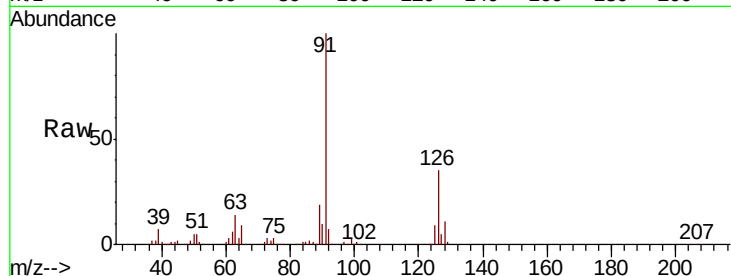
126 35.3 0.0 70.4

Manual Integrations

APPROVED

MMDadoda

8/31/2019 10:00:46 AM



Abundance Ion 91.00 (90.70 to 91.70): VN057577.D (-3379) (-)

Ion 126.00 (125.70 to 126.70): VN057577.D (-3379) (-)

400000

300000

200000

100000

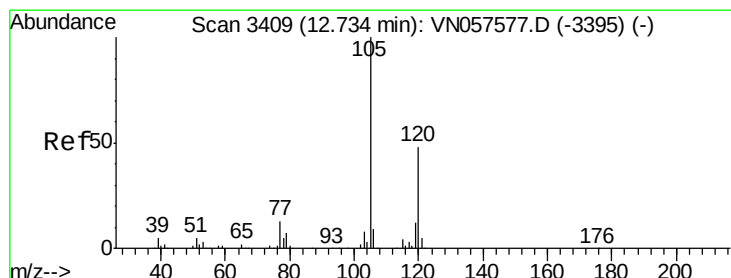
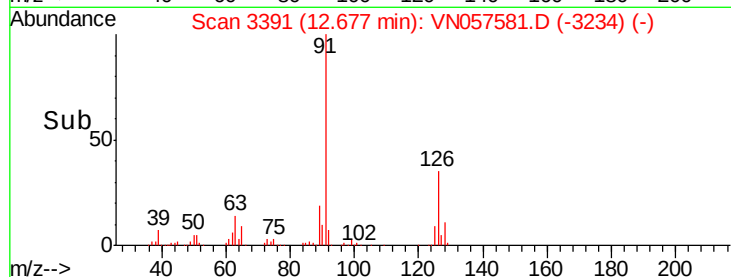
0

12.60

12.65

12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 20.985 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057581.D

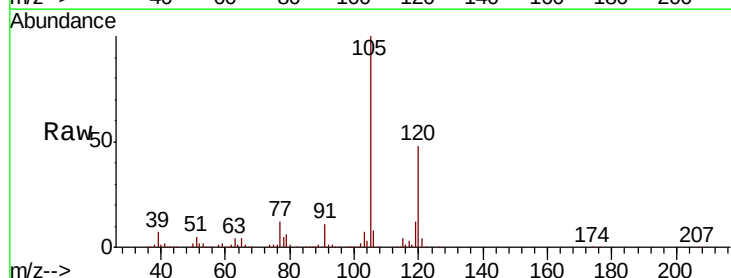
Acq: 30 Aug 2019 11:15

Tgt Ion: 105 Resp: 539365

Ion Ratio Lower Upper

105 100

120 48.4 0.0 95.8



Abundance Ion 105.00 (104.70 to 105.70): VN057577.D (-3395) (-)

Ion 120.00 (119.70 to 120.70): VN057577.D (-3395) (-)

400000

300000

200000

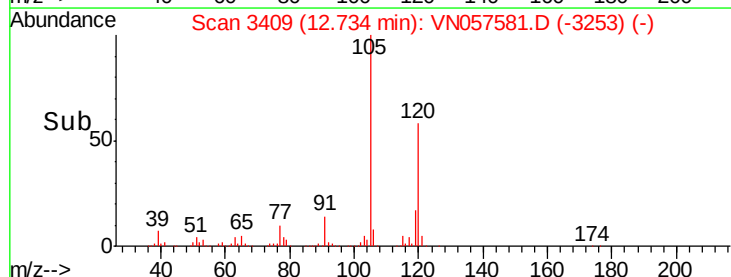
100000

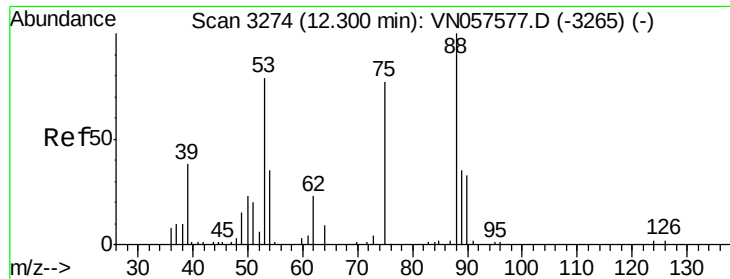
0

12.70

12.80

Time-->





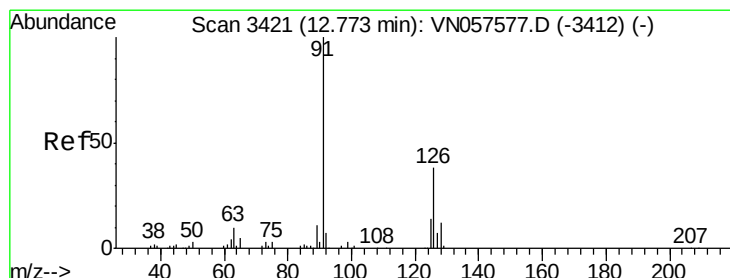
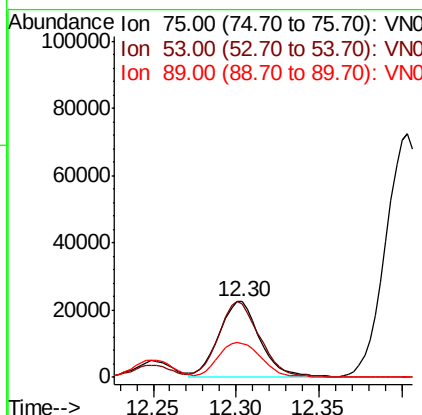
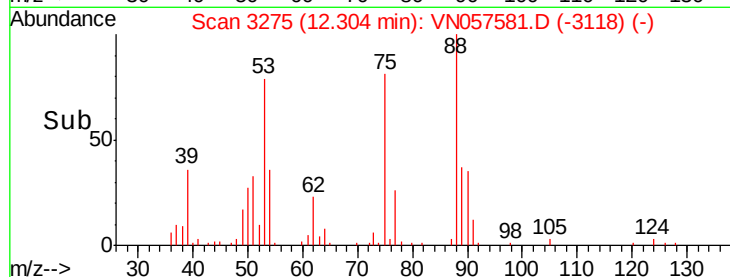
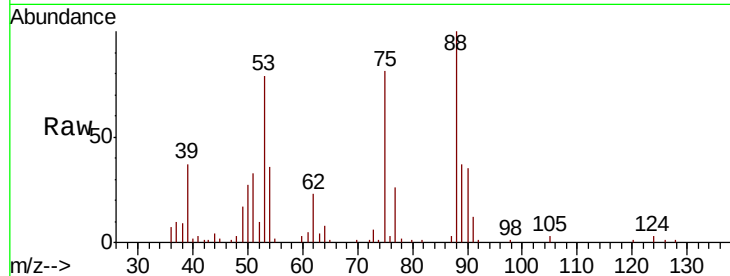
#77
t-1,4-Dichloro-2-butene
Concen: 17.948 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	38986		
53	98.6	52.8	158.4	
89	45.9	23.2	69.5	

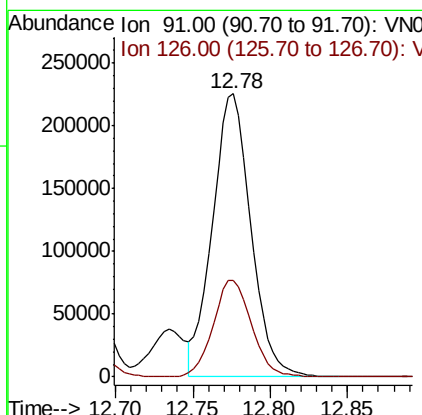
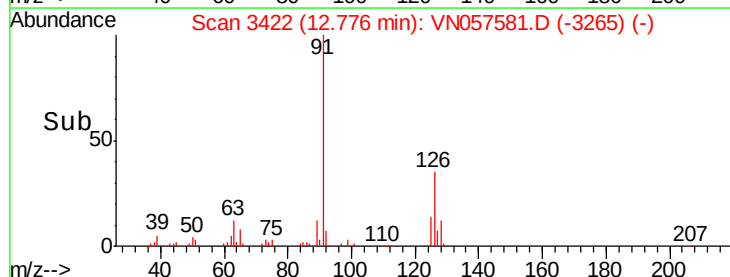
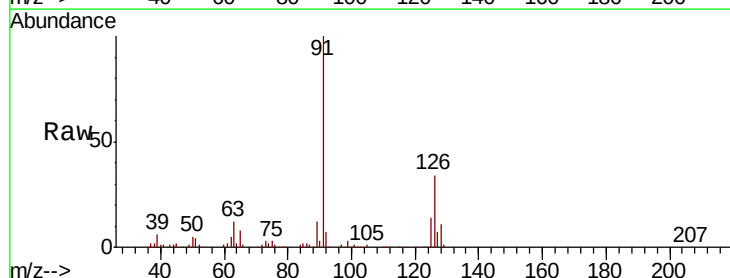
Manual Integrations
APPROVED

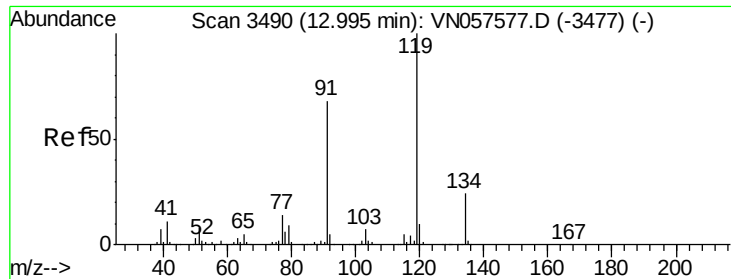
MMDadoda
8/31/2019 10:00:46 AM



#78
4-Chlorotoluene
Concen: 20.049 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	390041		
126	34.0	0.0	68.6	





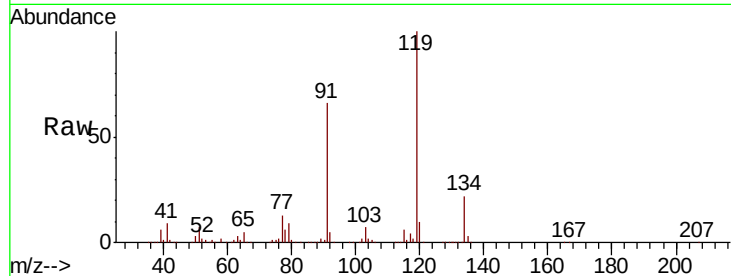
#79
tert-butylbenzene
Concen: 20.105 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	472285		
91	66.5	0.0	137.6	
134	23.4	0.0	47.8	

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM

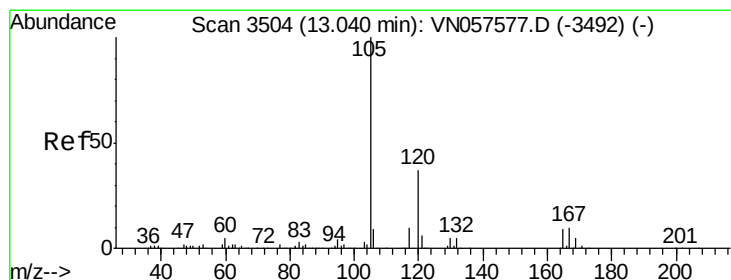
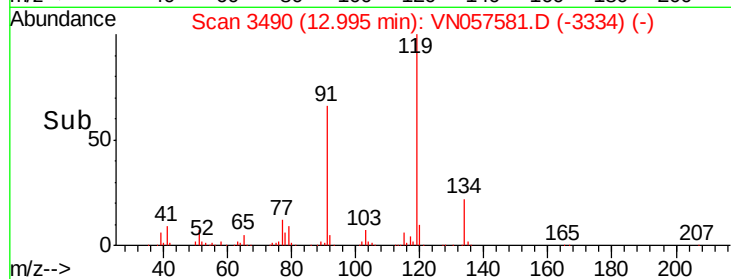
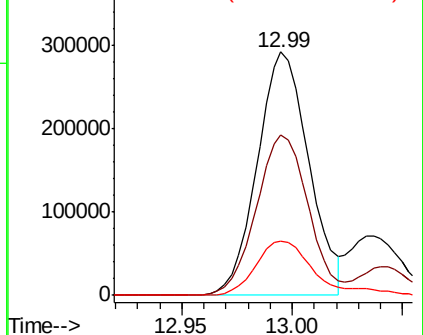


Abundance

Ion 119.00 (118.70 to 119.70): V

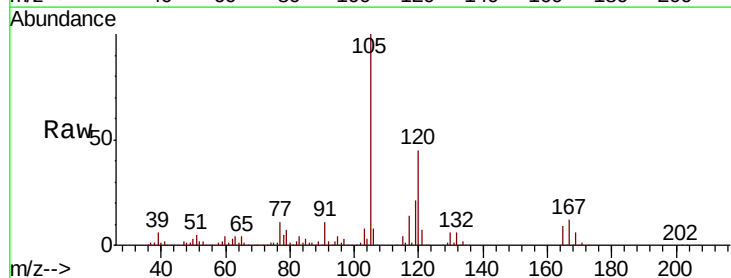
Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#80
1,2,4-Trimethylbenzene
Concen: 21.350 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

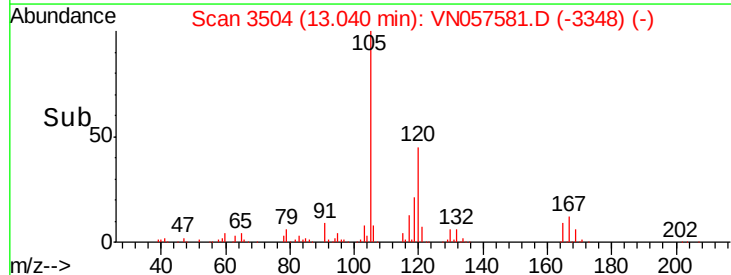
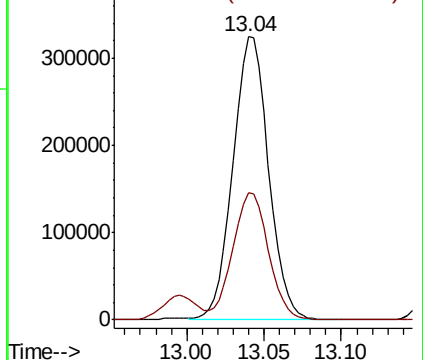
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	517297		
120	45.0	0.0	87.2	

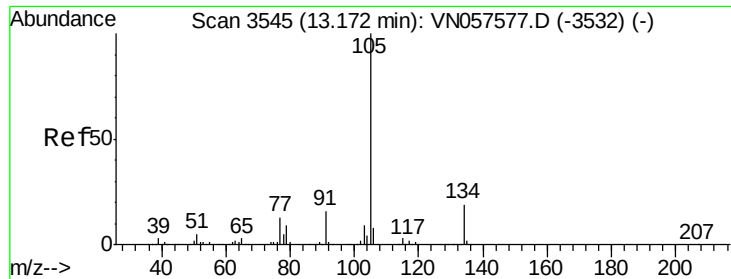


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





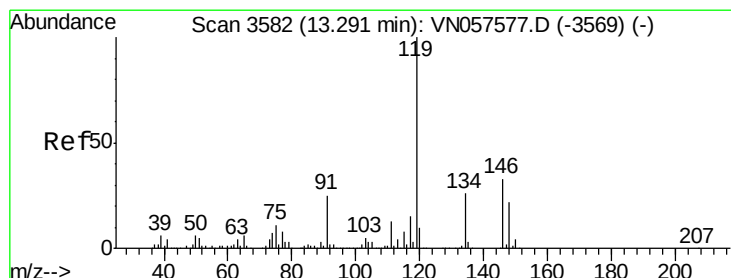
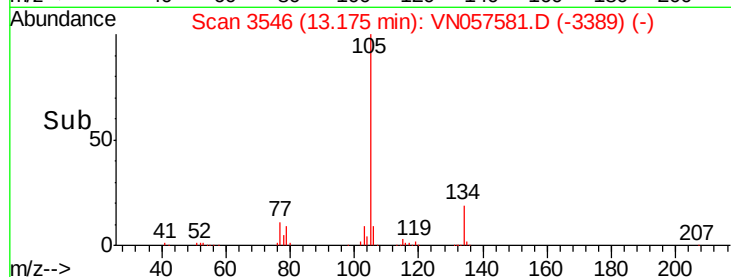
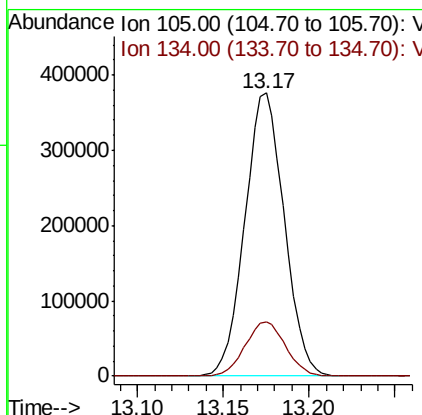
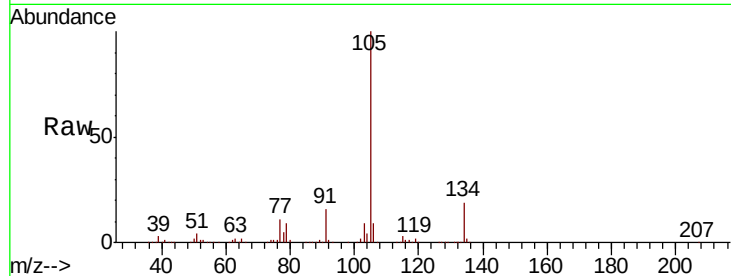
#81
 sec-Butylbenzene
 Concen: 20.954 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	598367		
134	19.7	0.0	39.2	

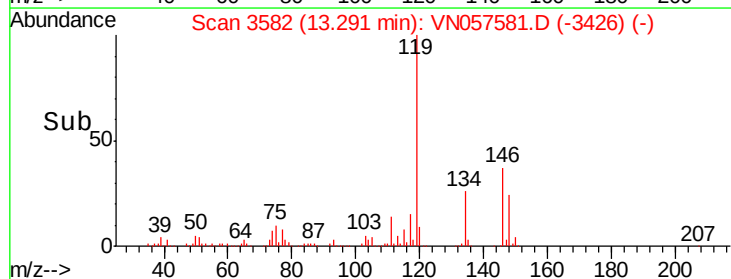
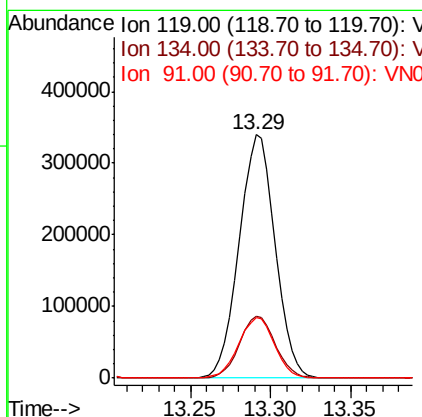
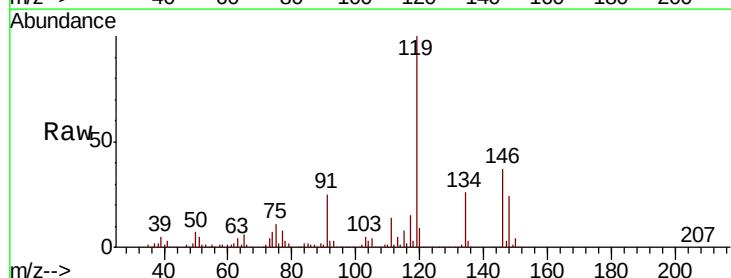
Manual Integrations
 APPROVED

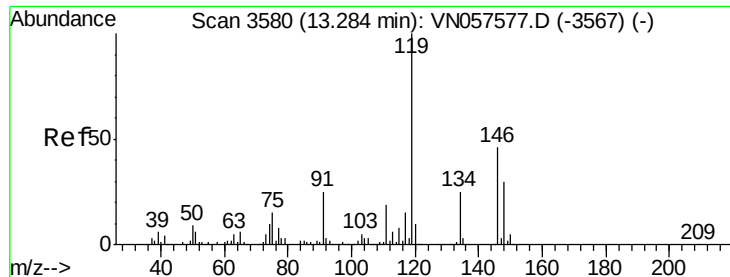
MMDadoda
 8/31/2019 10:00:46 AM



#82
 p-Isopropyltoluene
 Concen: 20.513 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	519460		
134	25.4	0.0	51.6	
91	24.9	0.0	50.8	





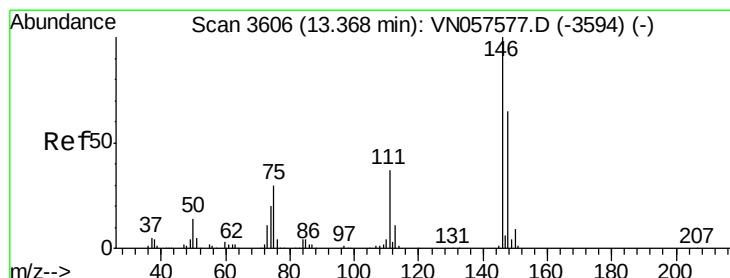
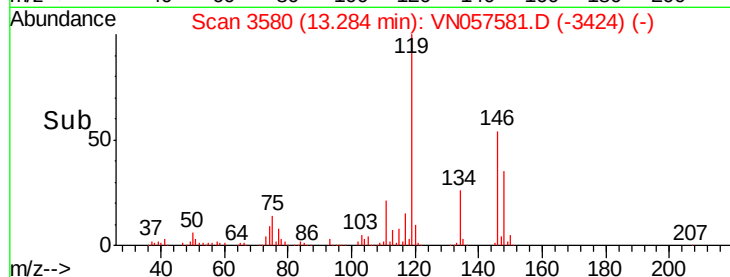
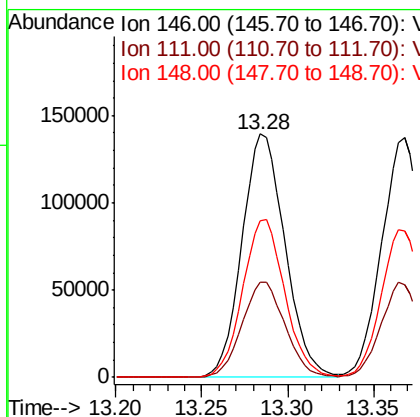
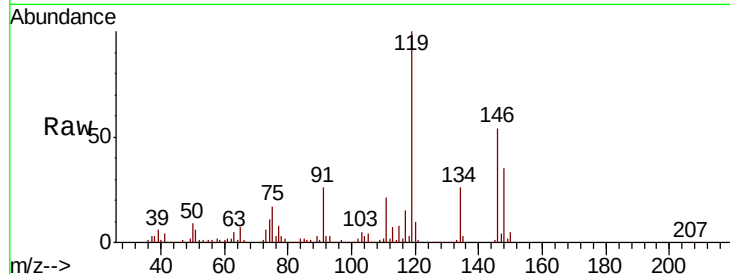
#83
 1,3-Dichlorobenzene
 Concen: 19.314 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampled :
 ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	242562		
111	39.1	20.0	60.0	
148	63.5	32.3	96.9	

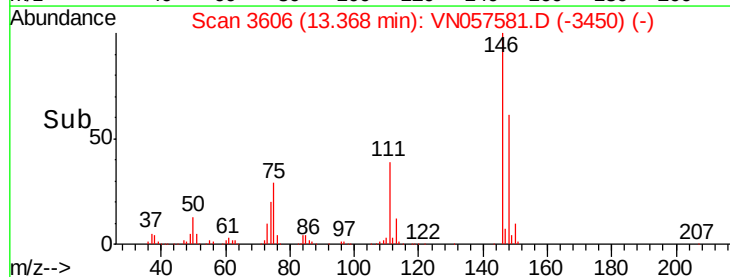
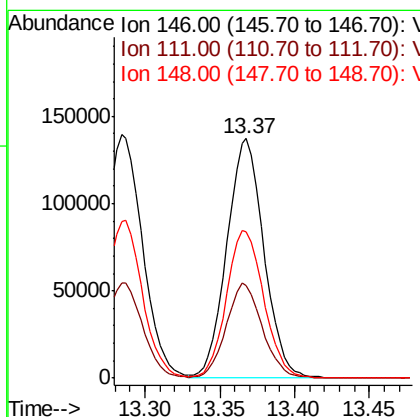
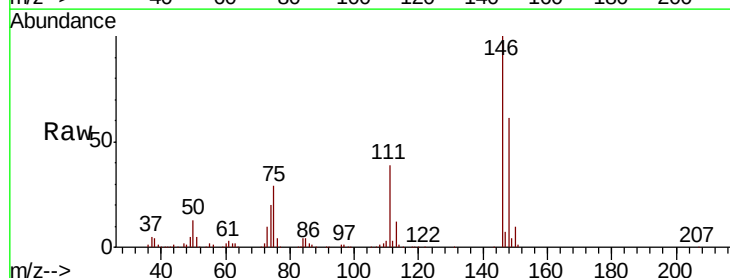
Manual Integrations
 APPROVED

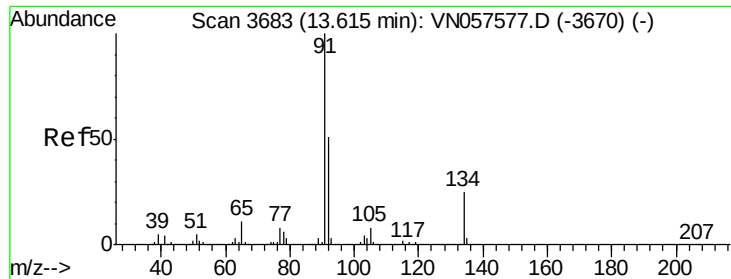
MMDadoda
 8/31/2019 10:00:46 AM



#84
 1,4-Dichlorobenzene
 Concen: 19.671 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	236950		
111	38.5	19.3	57.9	
148	62.0	32.2	96.6	





#85

n-Butylbenzene

Concen: 20.494 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Instrument :

MSVOA_N

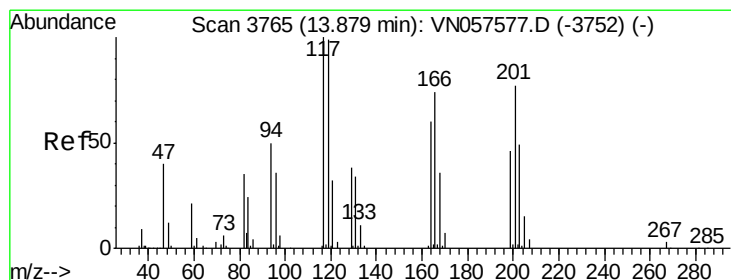
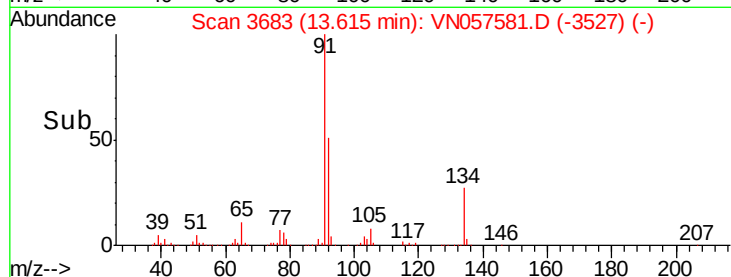
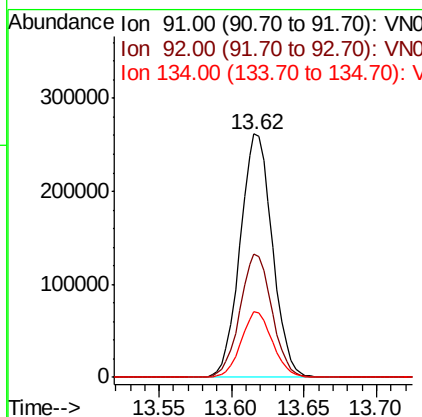
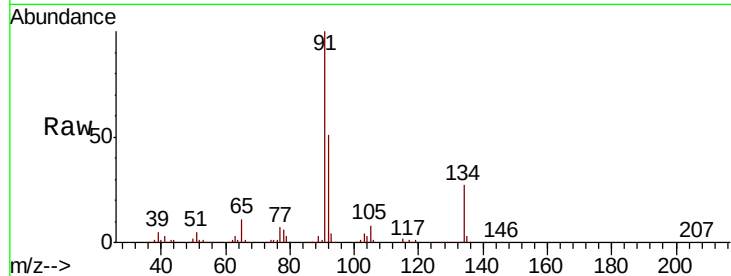
ClientSampleId :

ICVVN083019

Tgt Ion:	91	Resp:	404179
Ion Ratio		Lower	Upper
91	100		
92	50.1	0.0	103.0
134	26.2	0.0	51.0

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM



#86

Hexachloroethane

Concen: 18.232 ug/l

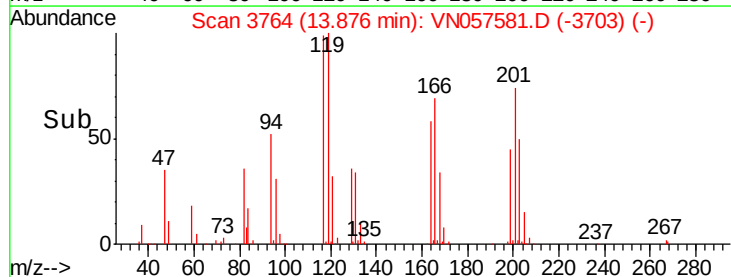
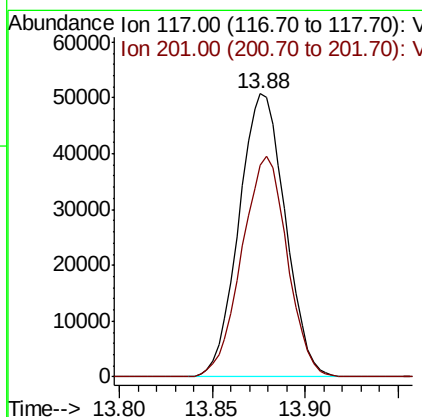
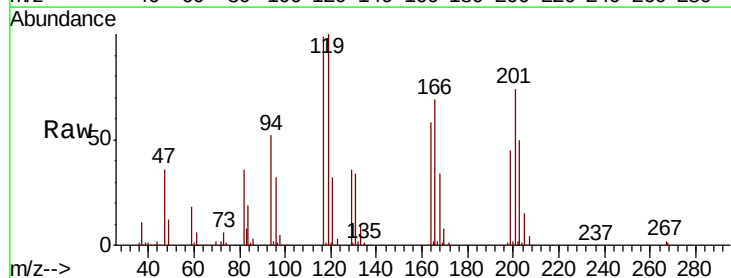
RT: 13.88 min Scan# 3764

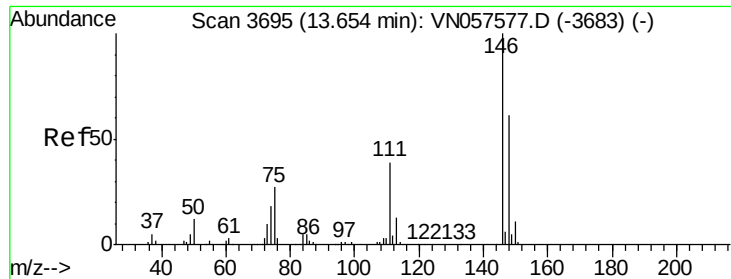
Delta R.T. -0.00 min

Lab File: VN057581.D

Acq: 30 Aug 2019 11:15

Tgt Ion:	117	Resp:	88291
Ion Ratio		Lower	Upper
117	100		
201	76.8	38.0	113.9





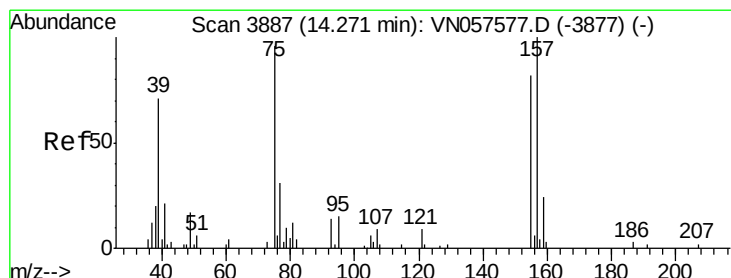
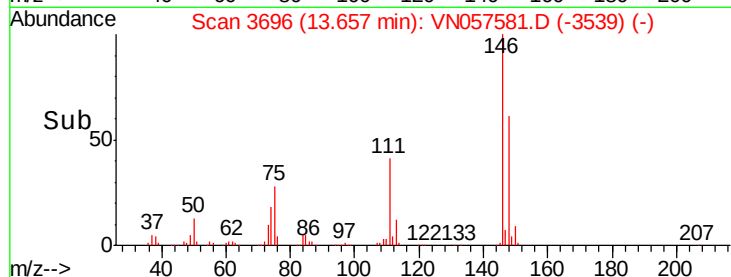
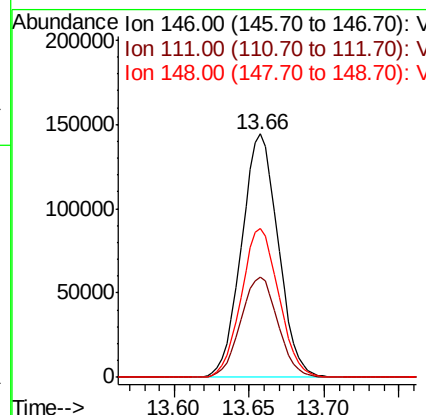
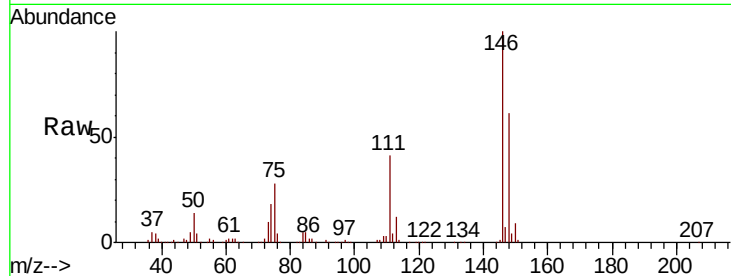
#87
 1,2-Dichlorobenzene
 Concen: 20.410 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Instrument :
 MSVOA_N
 ClientSampled :
 ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	246362		
111	41.8	19.9	59.6	
148	62.6	31.2	93.6	

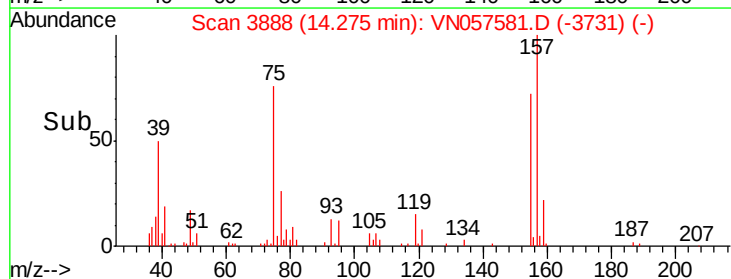
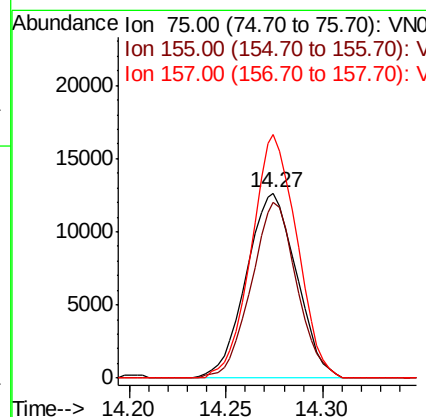
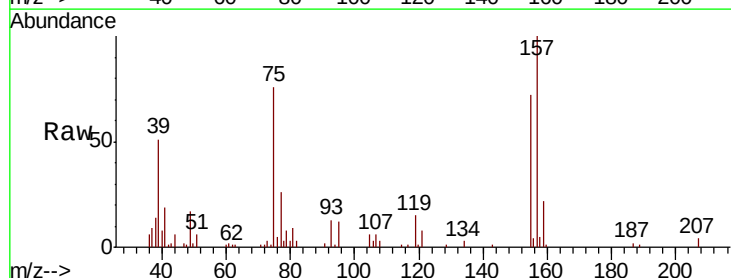
Manual Integrations
 APPROVED

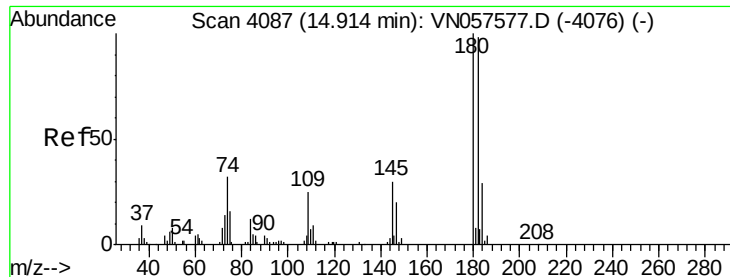
MMDadoda
 8/31/2019 10:00:46 AM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 18.817 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN057581.D
 Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	22829		
155	85.9	66.5	99.7	
157	119.0	88.4	132.6	





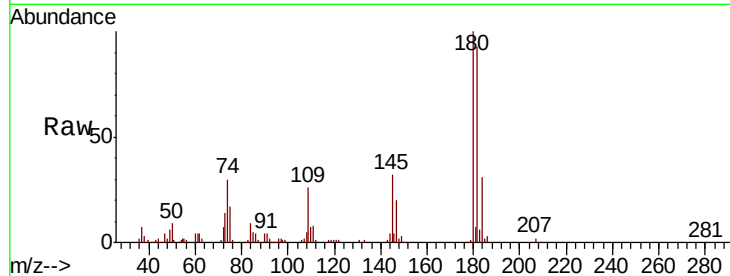
#89
1,2,4-Trichlorobenzene
Concen: 22.801 ug/l
RT: 14.91 min Scan# 4087
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	101416		
182	95.4	76.6	115.0	
145	32.3	24.4	36.6	

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM

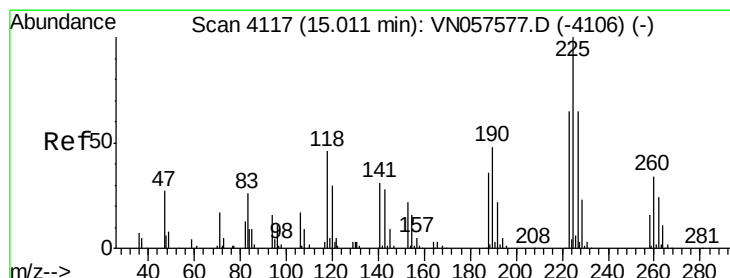
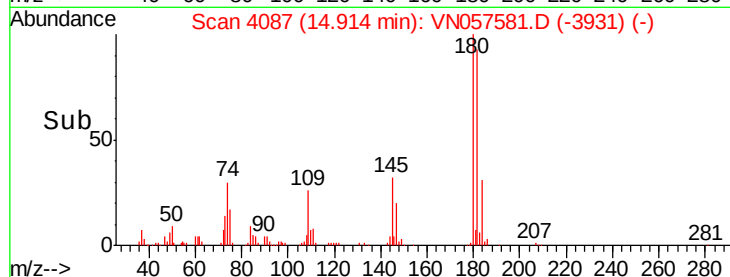
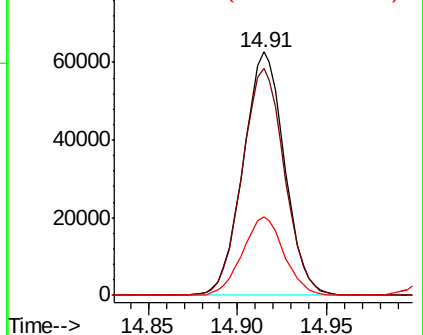


Abundance

Ion 180.00 (179.70 to 180.70): V

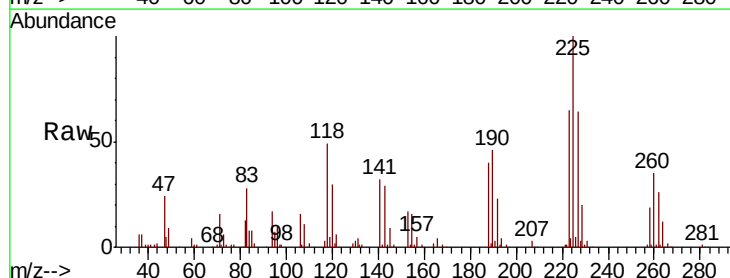
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#90
Hexachlorobutadiene
Concen: 22.131 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	84666		
223	62.7	0.0	130.6	
227	62.4	0.0	131.0	

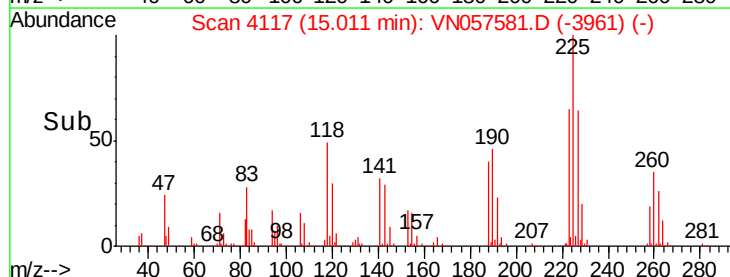
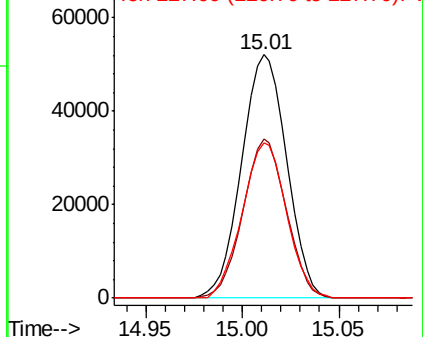


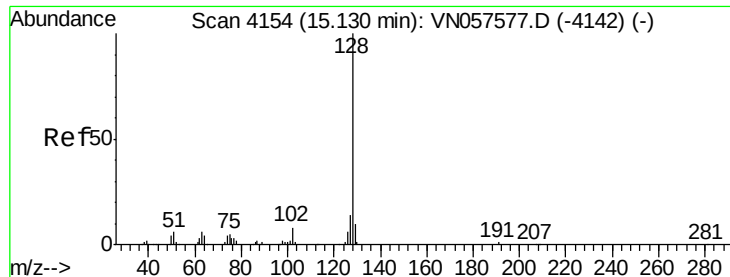
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





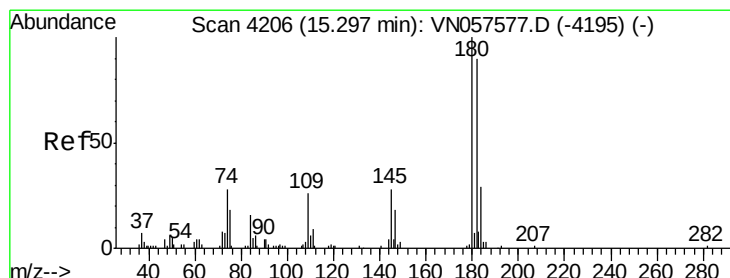
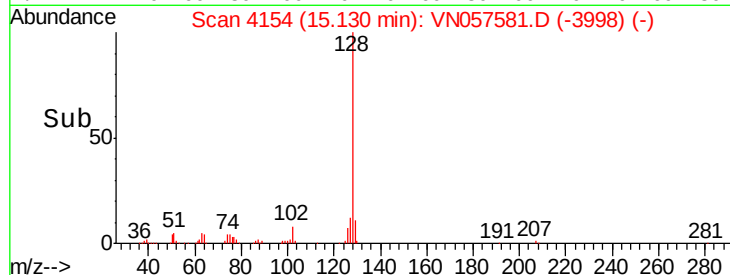
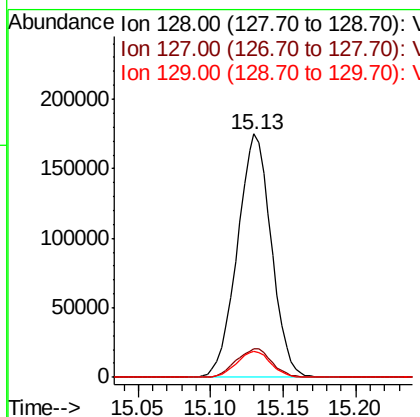
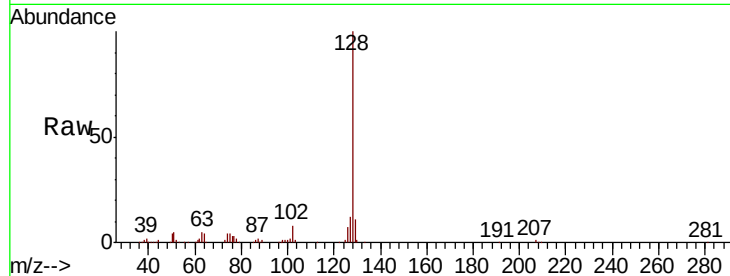
#91
Naphthalene
Concen: 22.952 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Instrument :
MSVOA_N
ClientSampleId :
ICVVN083019

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
127	12.3	10.6	16.0
129	10.7	8.1	12.1

Manual Integrations
APPROVED

MMDadoda
8/31/2019 10:00:46 AM



#92
1,2,3-Trichlorobenzene
Concen: 23.221 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN057581.D
Acq: 30 Aug 2019 11:15

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	97.9	0.0	181.0
145	31.9	0.0	62.2

