

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053002.D
 Acq On : 19 Dec 2018 11:16
 Operator : MD\SY
 Sample : VN1219WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Manual Integrations
 APPROVED

MMDadoda
 12/20/2018 9:34:23 AM

Quant Time: Dec 20 05:59:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1058249	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1617345	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1421894	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	662060	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	552055	51.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.82%	
35) Dibromofluoromethane	7.59	113	423350	57.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	114.60%	
50) Toluene-d8	10.09	98	2024058	51.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.06%	
62) 4-Bromofluorobenzene	12.40	95	688659	49.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.92%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	211252	19.724	ug/l	99
3) Chloromethane	2.06	50	262308	20.211	ug/l	99
4) Vinyl Chloride	2.19	62	261926	19.927	ug/l	99
5) Bromomethane	2.58	94	164648	18.080	ug/l	99
6) Chloroethane	2.71	64	154946	19.904	ug/l	99
7) Trichlorofluoromethane	3.03	101	325951	19.906	ug/l	99
8) Diethyl Ether	3.41	74	125025	20.239	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	204297	19.568	ug/l	97
10) Methyl Iodide	3.96	142	244669	16.688	ug/l	98
11) Tert butyl alcohol	4.77	59	61852	94.392	ug/l #	89
12) 1,1-Dichloroethene	3.74	96	198268	19.657	ug/l	99
13) Acrolein	3.61	56	68978	116.094	ug/l	99
14) Allyl chloride	4.33	41	323633	20.714	ug/l	94
15) Acrylonitrile	4.99	53	351982	96.690	ug/l	99
16) Acetone	3.81	43	227025	107.818	ug/l	98
17) Carbon Disulfide	4.06	76	583204	17.730	ug/l	99
18) Methyl Acetate	4.32	43	179521	19.404	ug/l	98
19) Methyl tert-butyl Ether	5.04	73	545037	20.192	ug/l	100
20) Methylene Chloride	4.55	84	228467	19.891	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	210948	19.465	ug/l	99
22) Diisopropyl ether	5.95	45	678687	20.351	ug/l	97
23) Vinyl Acetate	5.90	43	1974819	102.980	ug/l	98
24) 1,1-Dichloroethane	5.85	63	394737	19.919	ug/l	99
25) 2-Butanone	6.83	43	373835	105.790	ug/l	97
26) 2,2-Dichloropropane	6.82	77	289037	19.107	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	244600	19.937	ug/l	99
28) Bromochloromethane	7.19	49	184835	21.525	ug/l	96
29) Tetrahydrofuran	7.21	42	265471	100.586	ug/l	98
30) Chloroform	7.37	83	386977	19.879	ug/l	99
31) Cyclohexane	7.66	56	379601	19.789	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	323955	19.535	ug/l	99
36) 1,1-Dichloropropene	7.80	75	301652	19.432	ug/l	99
37) Ethyl Acetate	6.93	43	177009	20.425	ug/l	100
38) Carbon Tetrachloride	7.78	117	276801	19.453	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053002.D
 Acq On : 19 Dec 2018 11:16
 Operator : MD\SY
 Sample : VN1219WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1219WBS01

Manual Integrations
 APPROVED

MMDadoda
 12/20/2018 9:34:23 AM

Quant Time: Dec 20 05:59:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	359468	19.062	ug/l	99
40) Benzene	8.04	78	920468	19.934	ug/l	100
41) Methacrylonitrile	7.17	41	97339	19.440	ug/l	98
42) 1,2-Dichloroethane	8.12	62	268534	19.686	ug/l	99
43) Isopropyl Acetate	8.16	43	341219	19.714	ug/l	99
44) Trichloroethene	8.83	130	258670	19.368	ug/l	98
45) 1,2-Dichloropropane	9.12	63	241212	20.055	ug/l	100
46) Dibromomethane	9.21	93	138239	19.730	ug/l	97
47) Bromodichloromethane	9.40	83	290148	19.482	ug/l	100
48) Methyl methacrylate	9.20	41	165621	19.695	ug/l	98
49) 1,4-Dioxane	9.20	88	38920	365.878	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	852112	101.533	ug/l	99
52) Toluene	10.16	92	567735	19.837	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	297128	18.973	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	350747	19.512	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	199495	19.980	ug/l	98
56) Ethyl methacrylate	10.43	69	263300	19.923	ug/l	97
57) 1,3-Dichloropropane	10.71	76	343184	20.043	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	703746	96.995	ug/l	98
59) 2-Hexanone	10.75	43	573101	100.931	ug/l	99
60) Dibromochloromethane	10.90	129	220040	19.252	ug/l	100
61) 1,2-Dibromoethane	11.00	107	199868	19.710	ug/l	100
64) Tetrachloroethene	10.63	164	294274	19.106	ug/l	99
65) Chlorobenzene	11.43	112	618221	19.614	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	216138	19.719	ug/l	99
67) Ethyl Benzene	11.51	91	1071363	19.765	ug/l	99
68) m/p-Xylenes	11.62	106	813091	39.458	ug/l	99
69) o-Xylene	11.95	106	397363	20.096	ug/l	100
70) Styrene	11.96	104	648957	20.127	ug/l	99
71) Bromoform	12.13	173	148820	18.795	ug/l #	99
73) Isopropylbenzene	12.25	105	1048000	20.231	ug/l	100
74) N-amyl acetate	12.07	43	297471	20.684	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	214178	21.075	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	192950m	17.313	ug/l	
77) Bromobenzene	12.53	156	269660	20.027	ug/l	97
78) n-propylbenzene	12.59	91	1173085	19.884	ug/l	99
79) 2-Chlorotoluene	12.67	91	703139	19.228	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	837003	19.824	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	67467	19.511	ug/l	97
82) 4-Chlorotoluene	12.77	91	708213	19.784	ug/l	100
83) tert-Butylbenzene	12.99	119	738020	19.764	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	848645	19.994	ug/l	100
85) sec-Butylbenzene	13.17	105	982082	19.444	ug/l	99
86) p-Isopropyltoluene	13.29	119	848500	19.442	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	463228	19.437	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	457877	18.972	ug/l	99
89) n-Butylbenzene	13.62	91	685109	18.247	ug/l	99
90) Hexachloroethane	13.88	117	123656	18.463	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	440545	19.642	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	33299	18.951	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
Data File : VN053002.D
Acq On : 19 Dec 2018 11:16
Operator : MD\SY
Sample : VN1219WBS01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 7 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

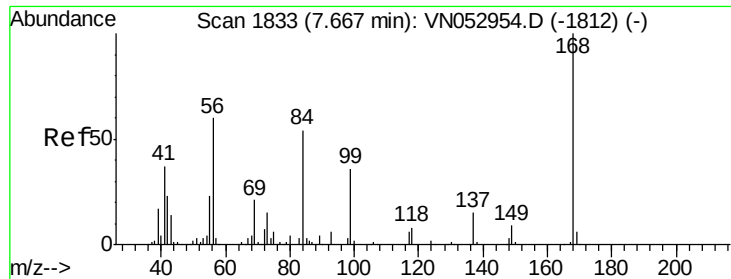
Manual Integrations
APPROVED

MMDadoda
12/20/2018 9:34:23 AM

Quant Time: Dec 20 05:59:34 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	220884	18.963	ug/l	100
94) Hexachlorobutadiene	15.01	225	130017	19.373	ug/l	99
95) Naphthalene	15.13	128	464432	18.579	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	200003	19.009	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

Tot Ion:168 Resp: 1058249

Ion Ratio Lower Upper

168 100

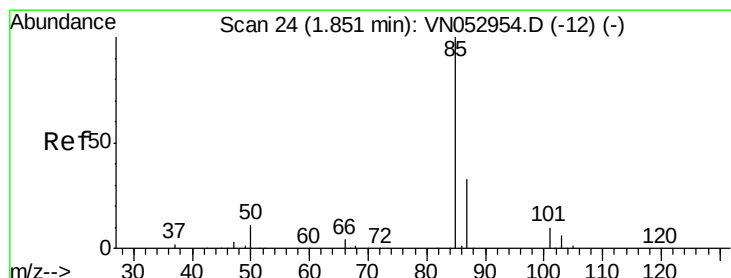
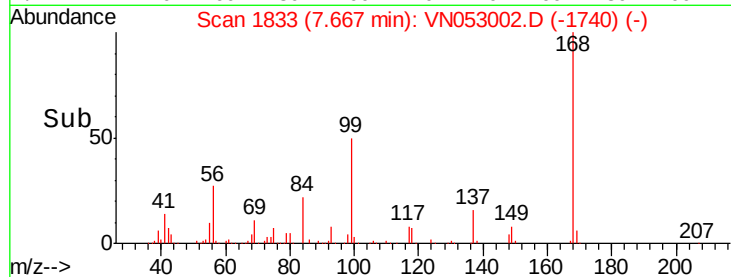
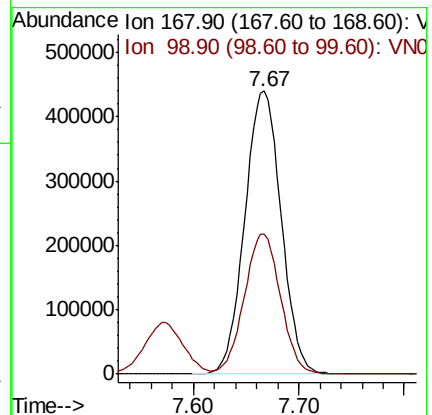
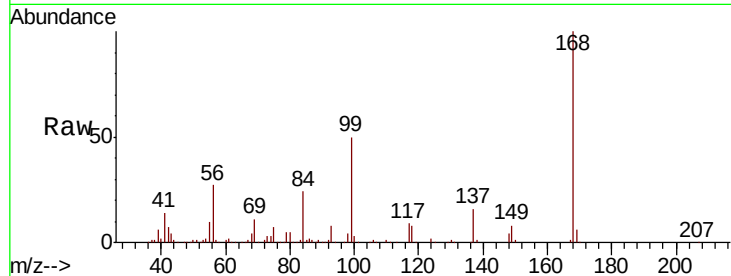
99 49.5 40.2 60.2

Manual Integrations

APPROVED

MMDadoda

12/20/2018 9:34:23 AM



#2

Dichlorodifluoromethane

Concen: 19.724 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN053002.D

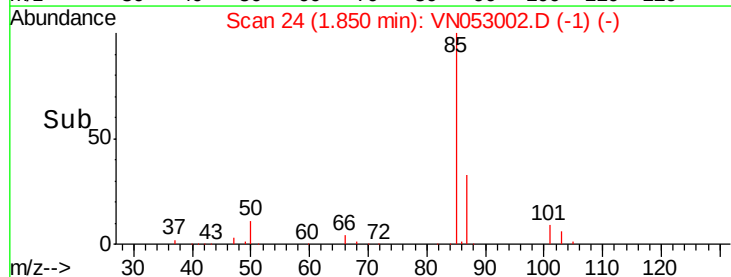
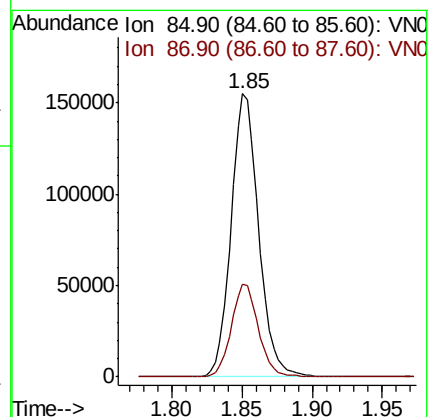
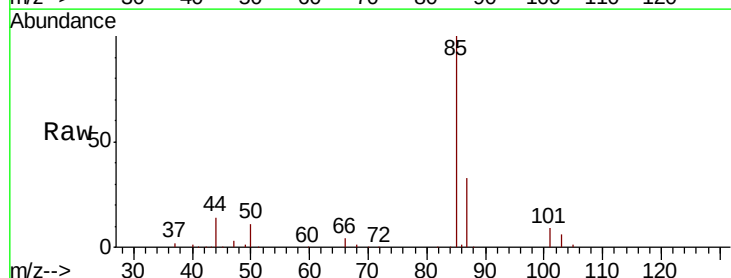
Acq: 19 Dec 2018 11:16

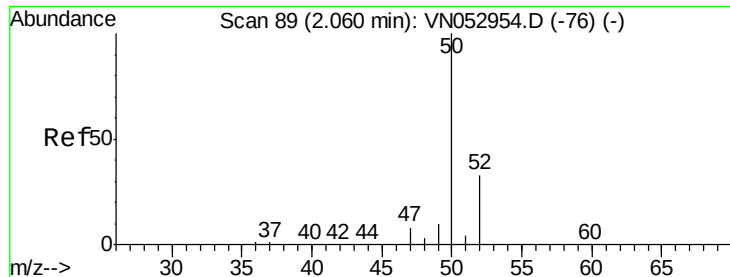
Tgt Ion: 85 Resp: 211252

Ion Ratio Lower Upper

85 100

87 33.0 16.3 48.8





#3

Chloromethane

Concen: 20.211 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

Tot Ion: 50 Resp: 262308

Ion Ratio Lower Upper

50 100

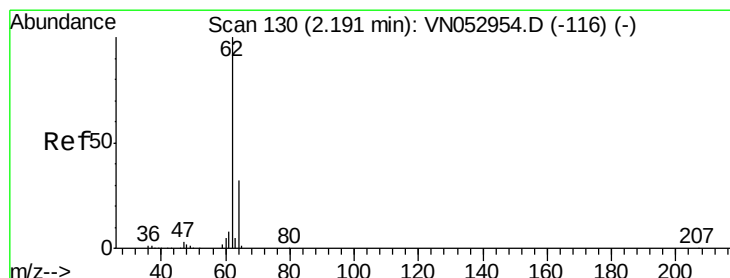
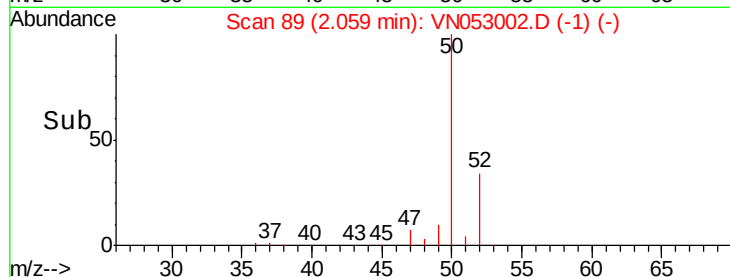
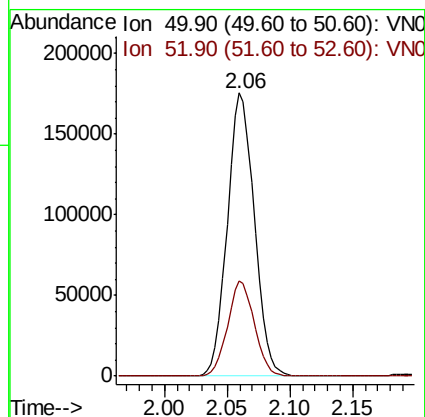
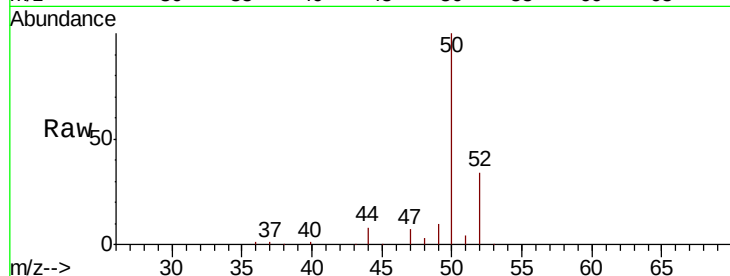
52 33.5 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

12/20/2018 9:34:23 AM



#4

Vinyl Chloride

Concen: 19.927 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN053002.D

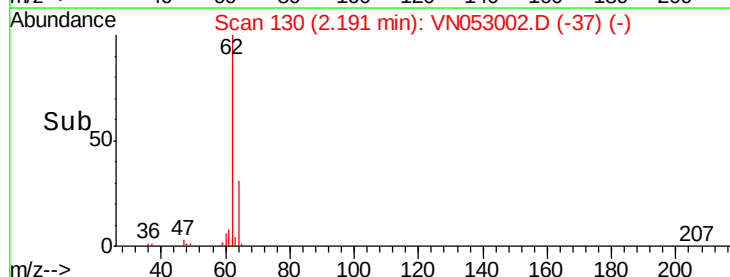
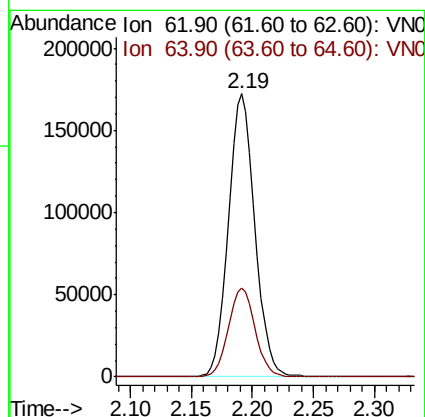
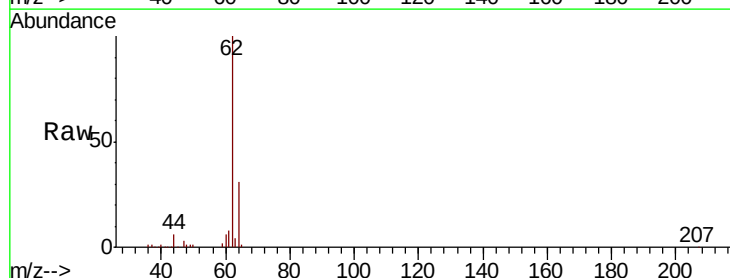
Acq: 19 Dec 2018 11:16

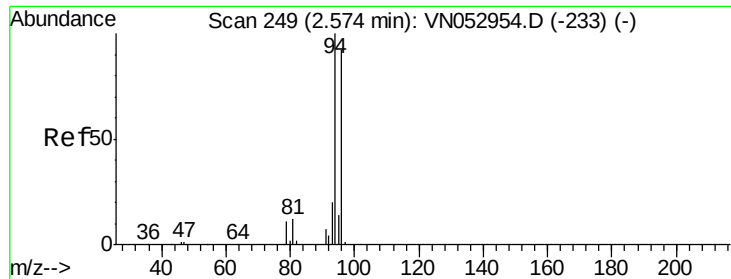
Tgt Ion: 62 Resp: 261926

Ion Ratio Lower Upper

62 100

64 31.5 25.5 38.3





#5

Bromomethane

Concen: 18.080 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

Tot Ion: 94 Resp: 164648

Ion Ratio Lower Upper

94 100

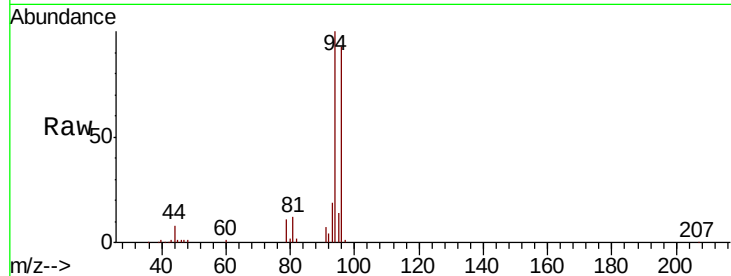
96 92.7 75.0 112.4

Manual Integrations

APPROVED

MMDadoda

12/20/2018 9:34:23 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.58

100000

80000

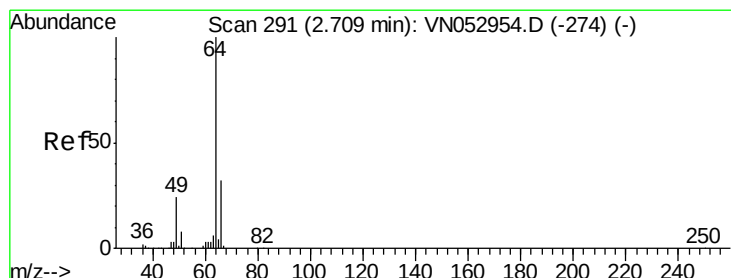
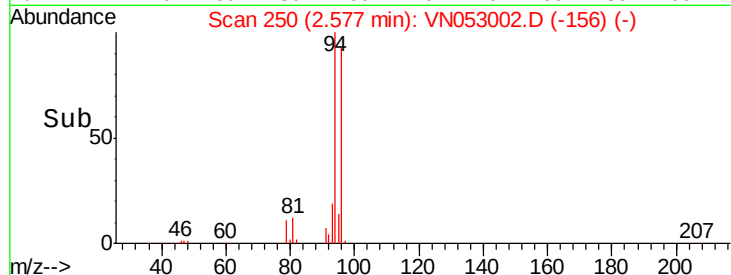
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 19.904 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN053002.D

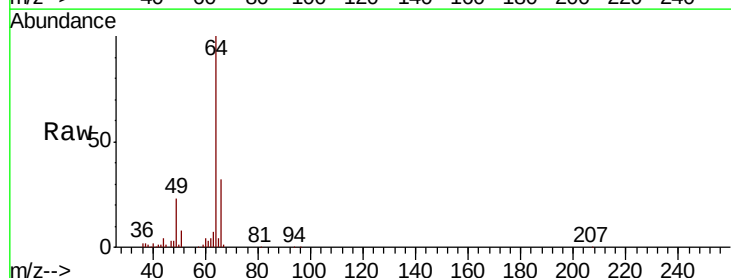
Acq: 19 Dec 2018 11:16

Tgt Ion: 64 Resp: 154946

Ion Ratio Lower Upper

64 100

66 32.3 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

80000

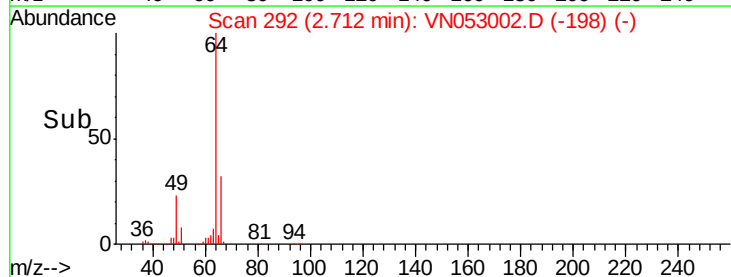
60000

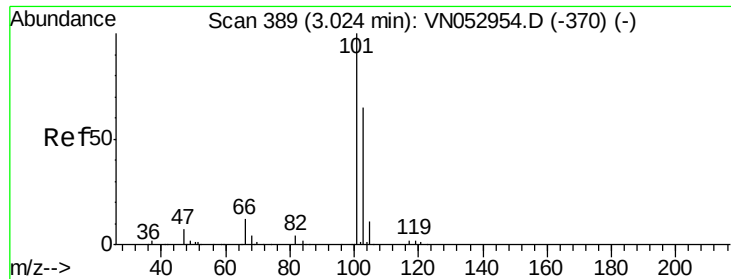
40000

20000

0

Time-->





#7

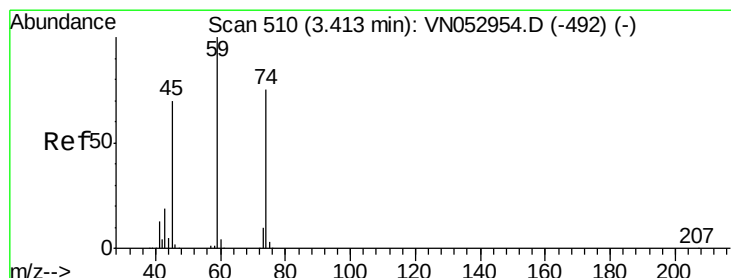
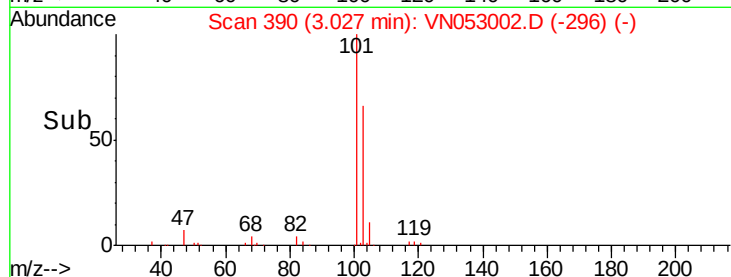
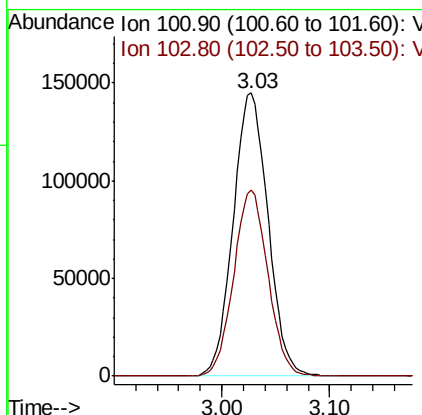
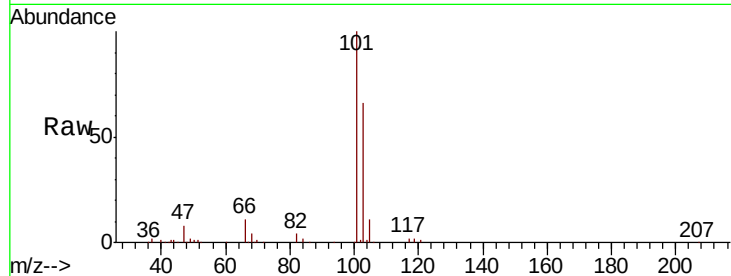
Trichlorofluoromethane
 Concen: 19.906 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.9	51.8	77.6

Manual Integrations
 APPROVED

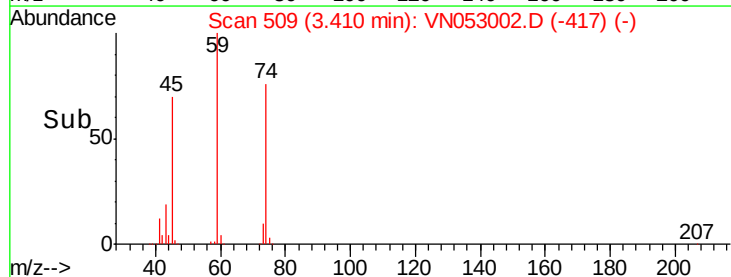
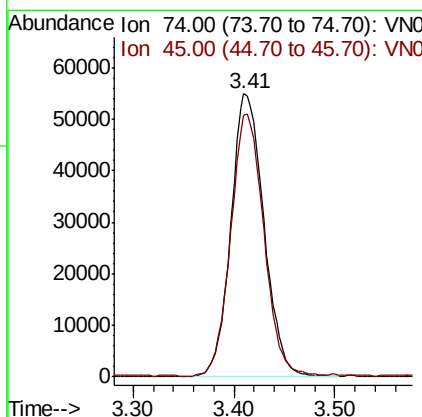
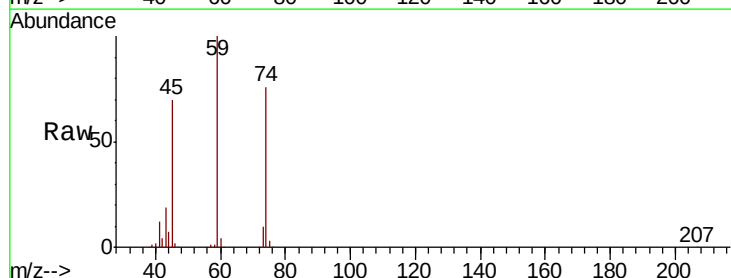
MMDadoda
 12/20/2018 9:34:23 AM

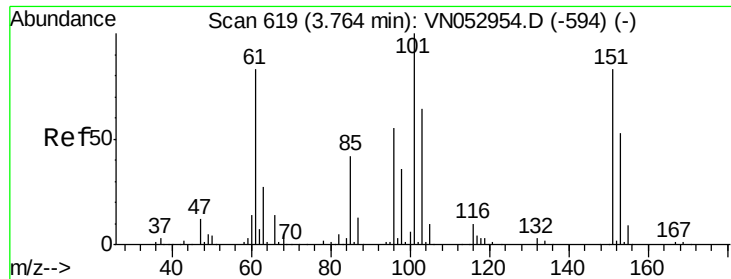


#8

Diethyl Ether
 Concen: 20.239 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
74	100		
45	92.5	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.568 ug/l

RT: 3.77 min Scan# 621

Delta R.T. 0.01 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

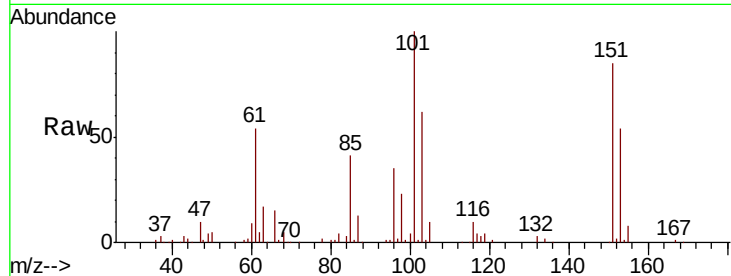
ClientSampleId :

VN1219WBS01

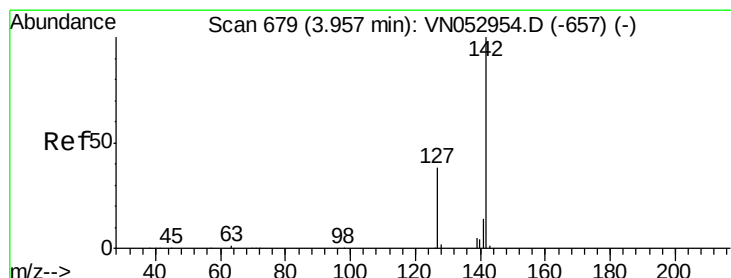
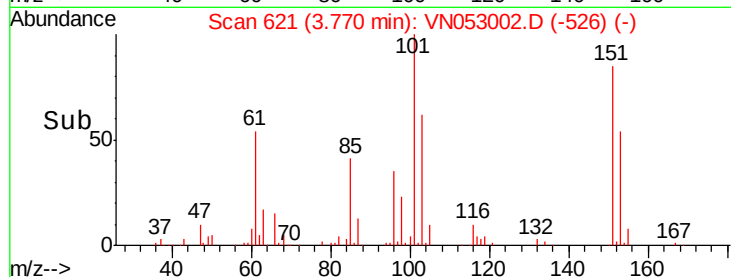
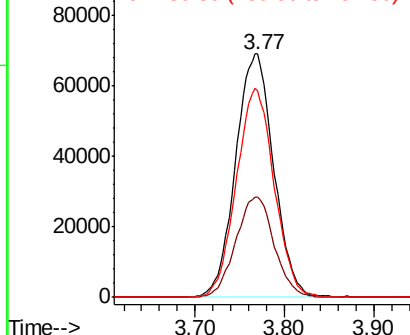
Tot Ion	Ratio	Resp	Lower	Upper
101	100	204297		
85	41.7	33.6	50.4	
151	85.6	65.5	98.3	

Manual Integrations
APPROVED

MMDadoda
12/20/2018 9:34:23 AM



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 16.688 ug/l

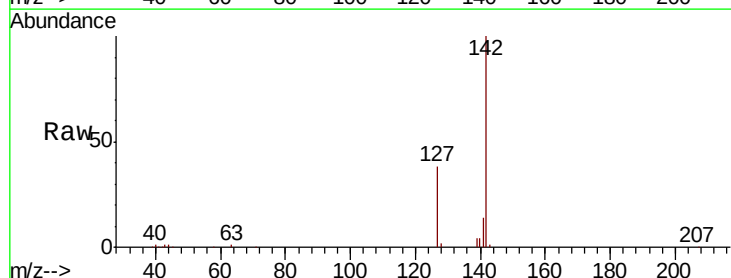
RT: 3.96 min Scan# 679

Delta R.T. -0.00 min

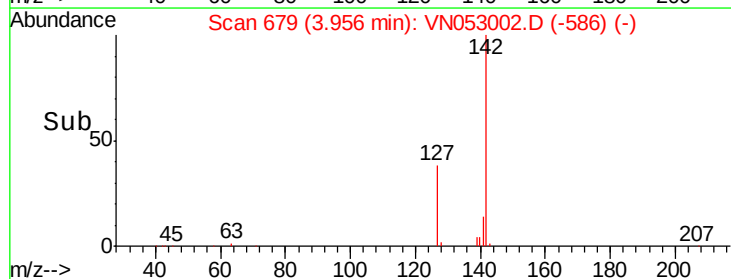
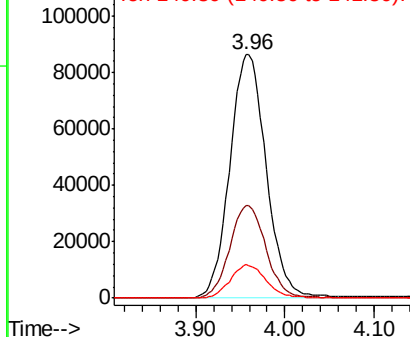
Lab File: VN053002.D

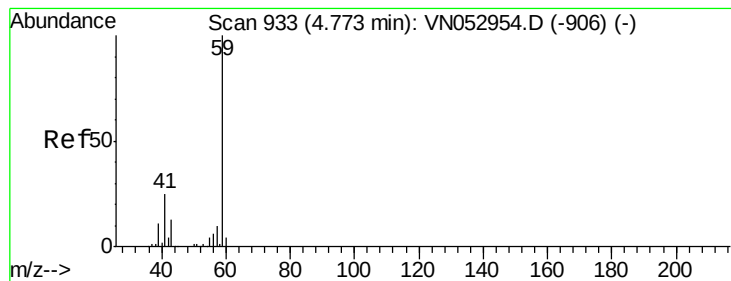
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	244669		
127	37.5	31.0	46.6	
141	13.4	11.2	16.8	



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

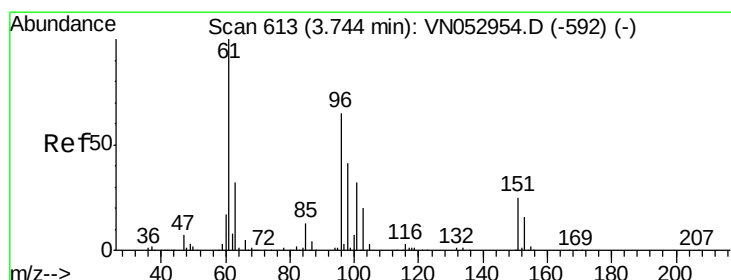
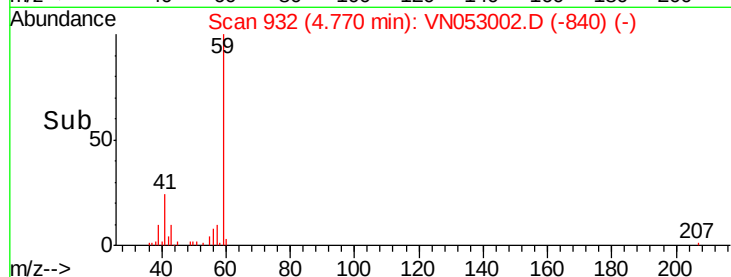
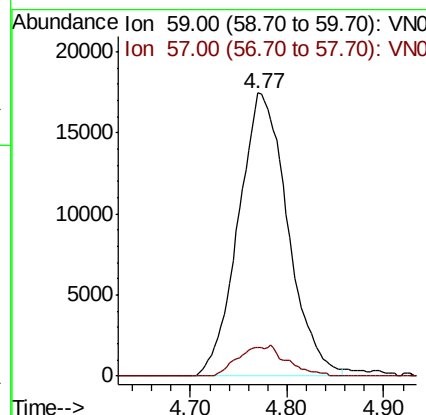
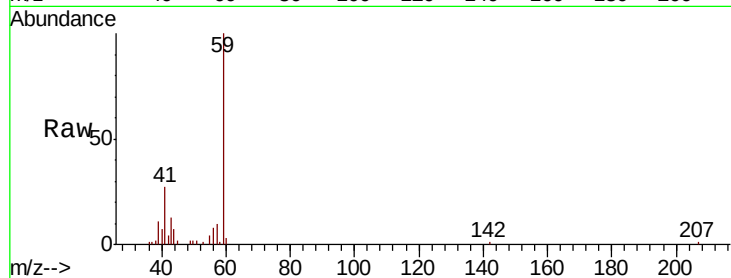
Tert butyl alcohol
Concen: 94.392 ug/l
RT: 4.77 min Scan# 932
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	59	57	Ratio	Lower	Upper
59	100				
57	5.7			7.7	11.5#

Manual Integrations
APPROVED

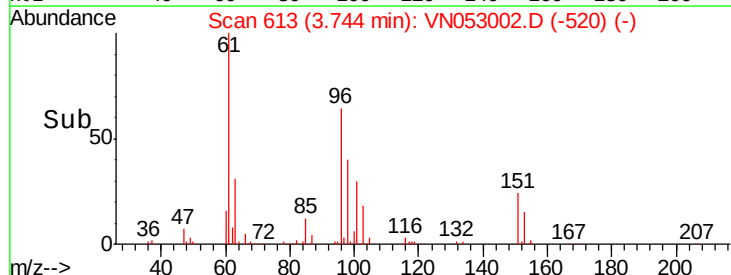
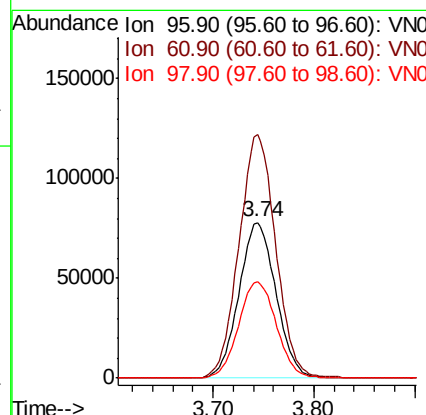
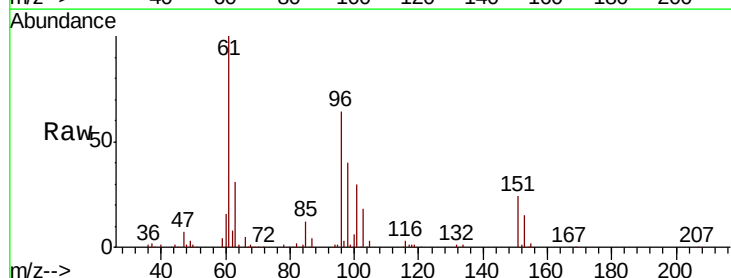
MMDadoda
12/20/2018 9:34:23 AM

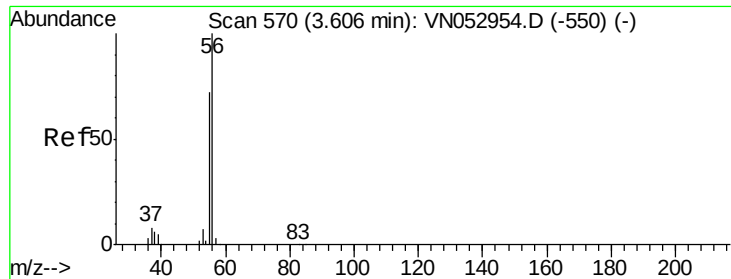


#12

1,1-Dichloroethene
Concen: 19.657 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	96	61	98	Ratio	Lower	Upper
96	100					
61	156.8			125.6	188.4	
98	62.0			50.6	75.8	





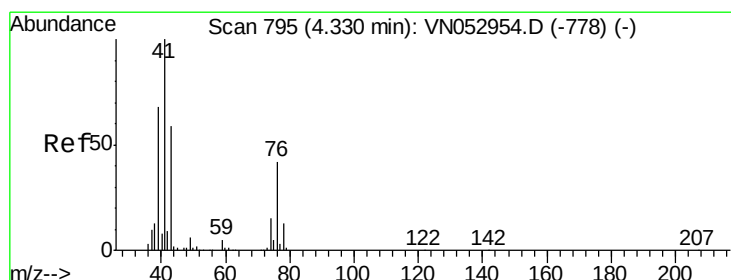
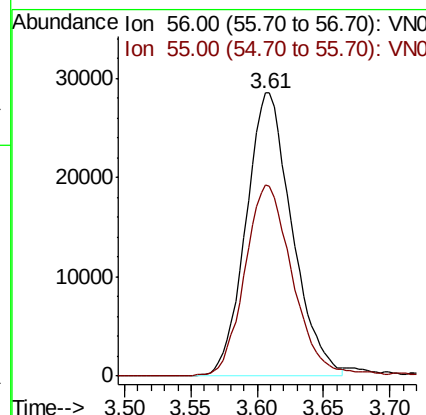
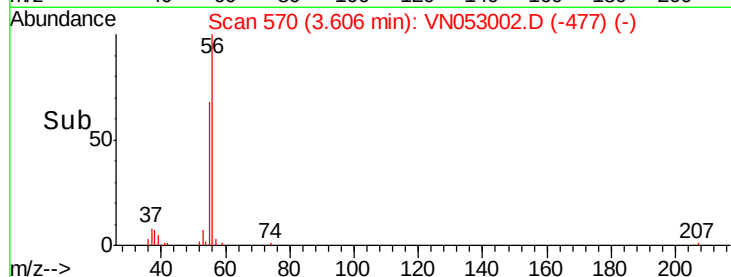
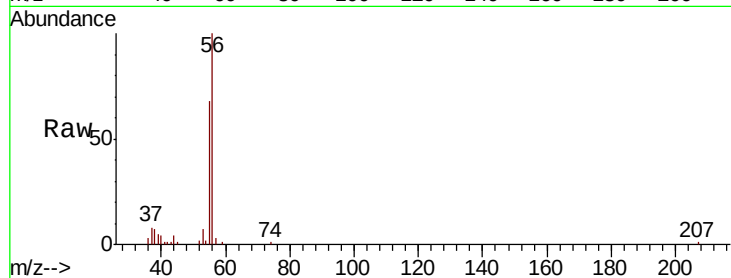
#13
Acrolein
Concen: 116.094 ug/l
RT: 3.61 min Scan# 570
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
55	70.1	56.6	85.0

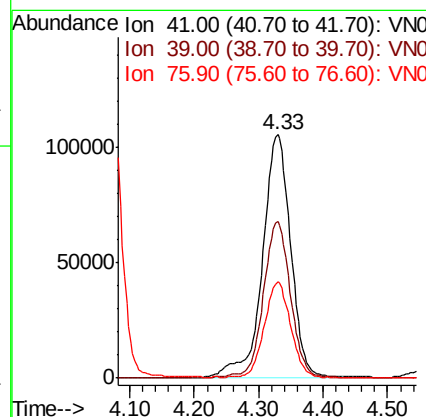
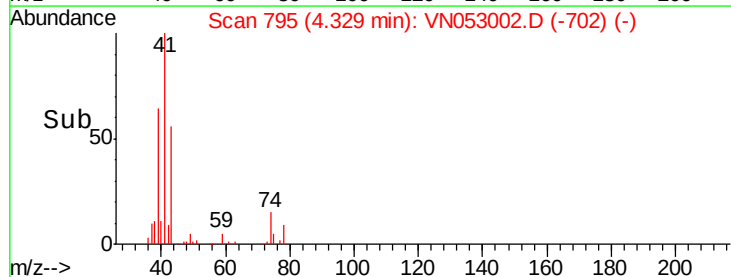
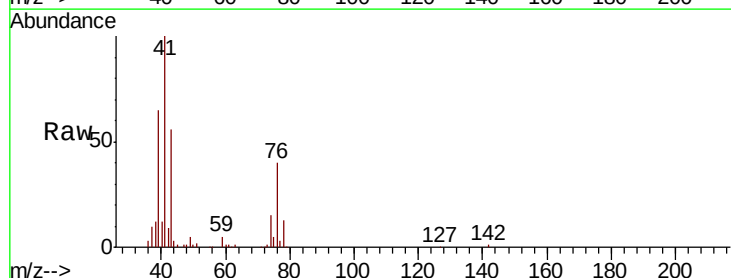
Manual Integrations
APPROVED

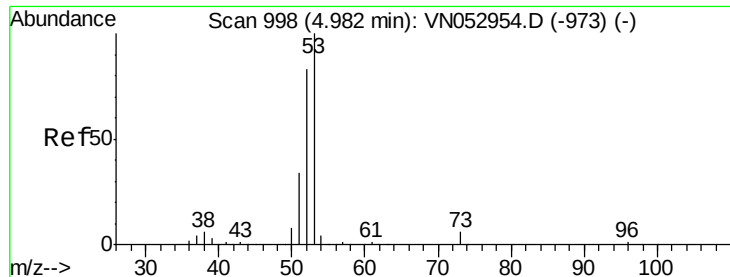
MMDadoda
12/20/2018 9:34:23 AM



#14
Allyl chloride
Concen: 20.714 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
41	100		
39	61.7	54.1	81.1
76	36.0	30.3	45.5





#15

Acrylonitrile

Concen: 96.690 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

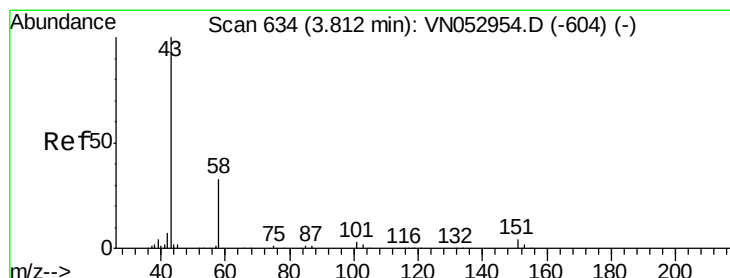
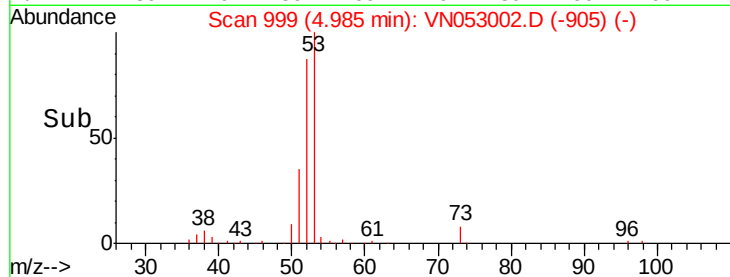
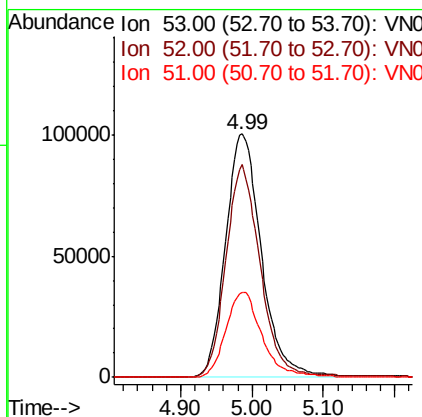
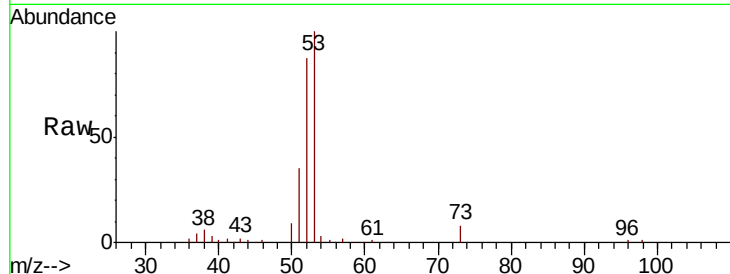
ClientSampleId :

VN1219WBS01

Tot Ion:	53	Resp:	351982
Ion Ratio	Lower	Upper	
53	100		
52	82.9	65.1	97.7
51	35.2	28.1	42.1

Manual Integrations
APPROVED

MMDadoda
12/20/2018 9:34:23 AM



#16

Acetone

Concen: 107.818 ug/l

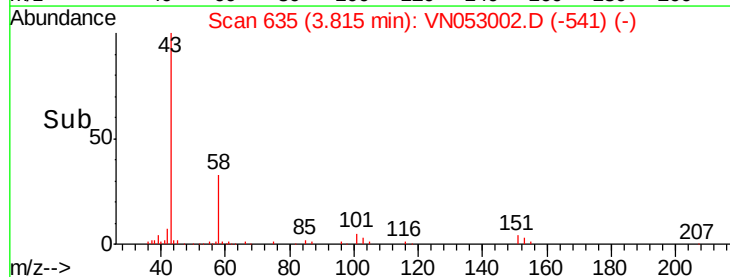
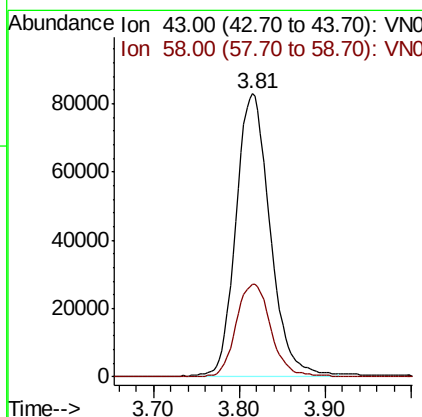
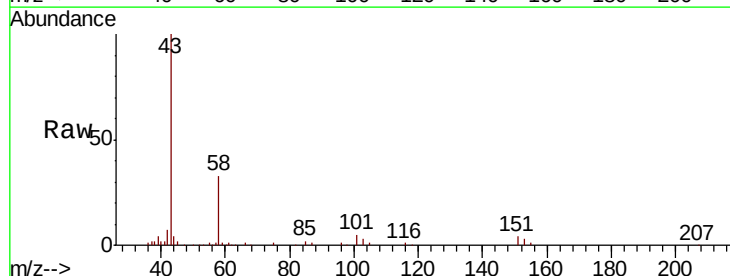
RT: 3.81 min Scan# 635

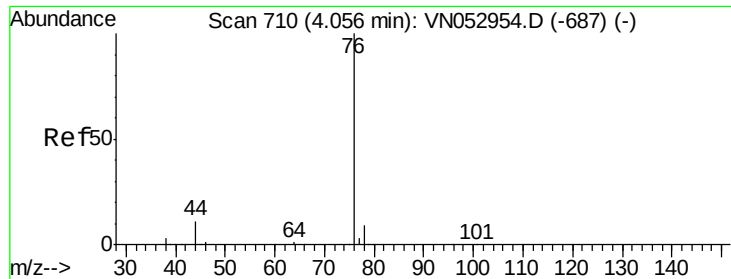
Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Tgt Ion:	43	Resp:	227025
Ion Ratio	Lower	Upper	
43	100		
58	33.0	25.4	38.0





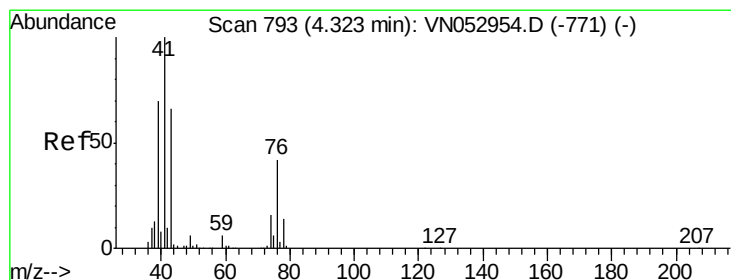
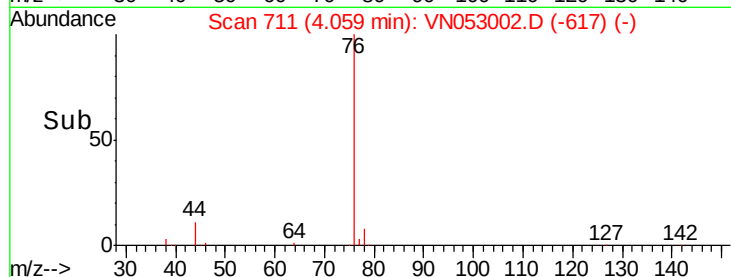
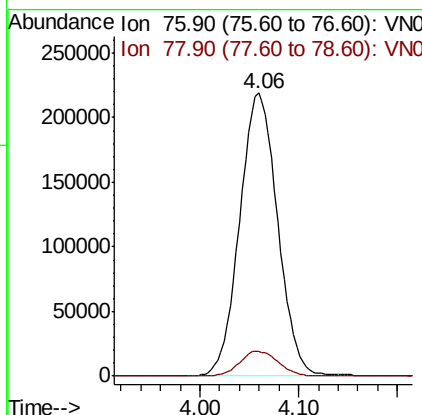
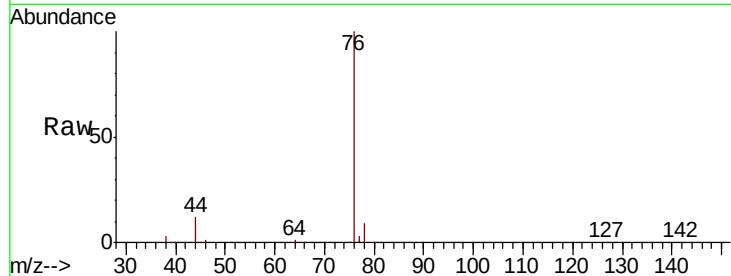
#17
Carbon Disulfide
Concen: 17.730 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.1	10.7

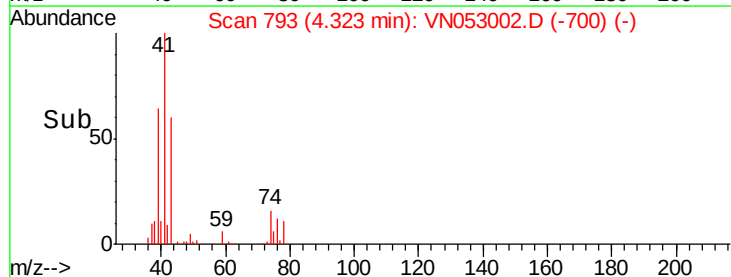
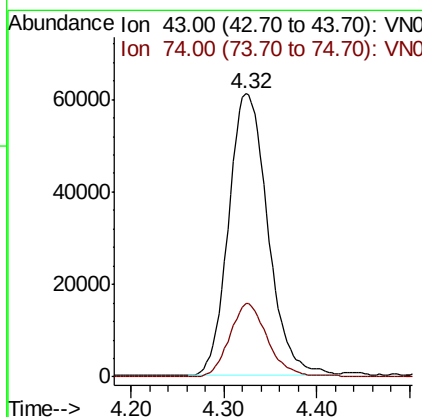
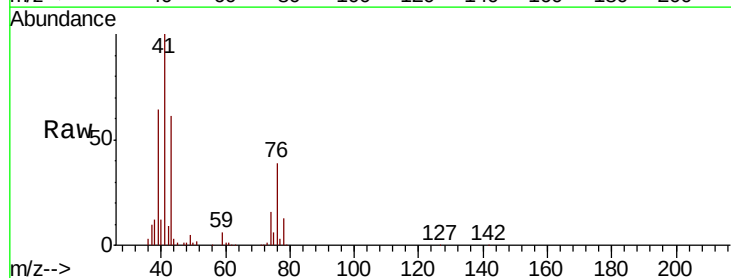
Manual Integrations
APPROVED

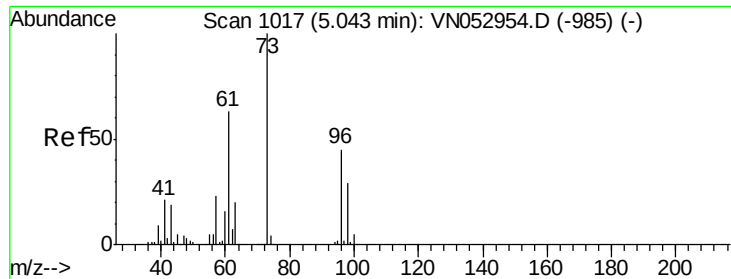
MMDadoda
12/20/2018 9:34:23 AM



#18
Methyl Acetate
Concen: 19.404 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.9	19.2	28.8





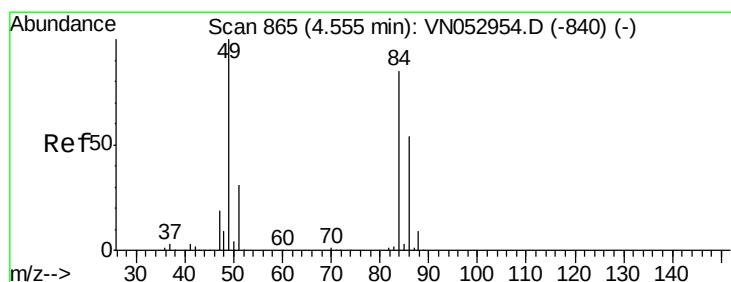
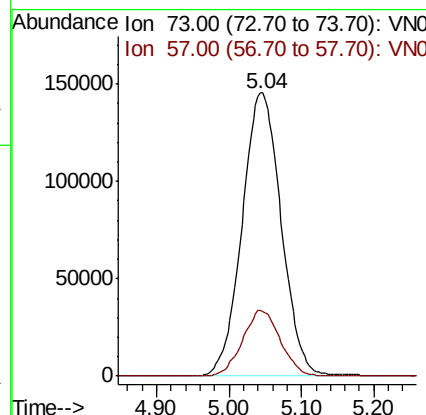
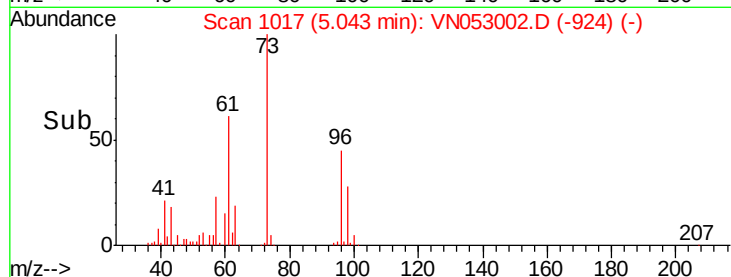
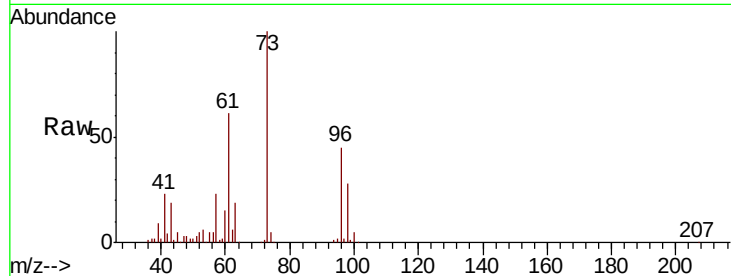
#19
Methyl tert-butyl Ether
Concen: 20.192 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion: 73 Resp: 545037
Ion Ratio Lower Upper
73 100
57 23.2 18.4 27.6

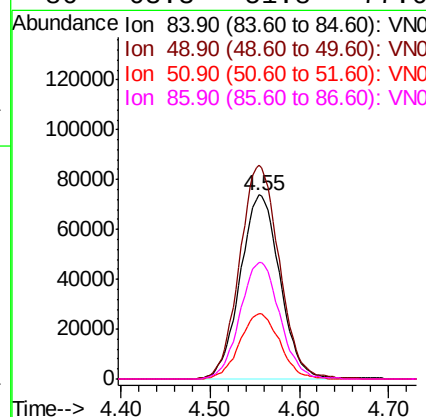
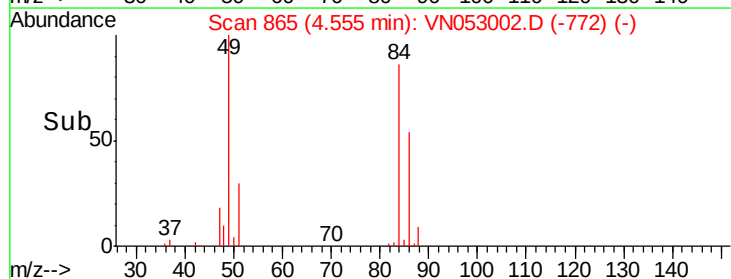
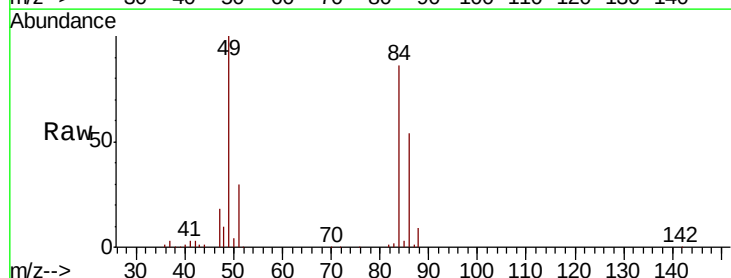
Manual Integrations
APPROVED

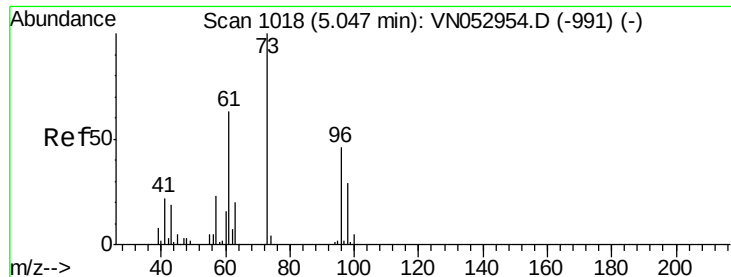
MMDadoda
12/20/2018 9:34:23 AM



#20
Methylene Chloride
Concen: 19.891 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion: 84 Resp: 228467
Ion Ratio Lower Upper
84 100
49 116.1 96.8 145.2
51 35.4 29.9 44.9
86 63.3 51.8 77.6





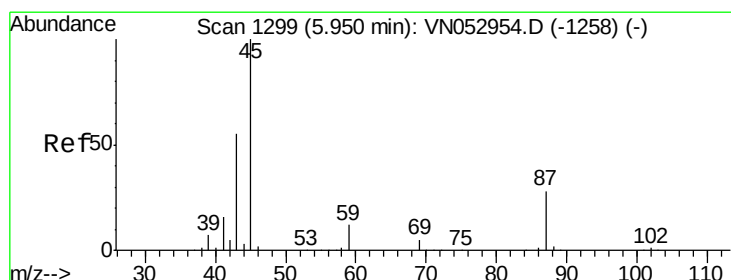
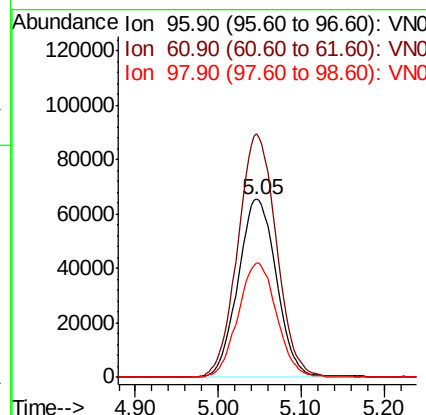
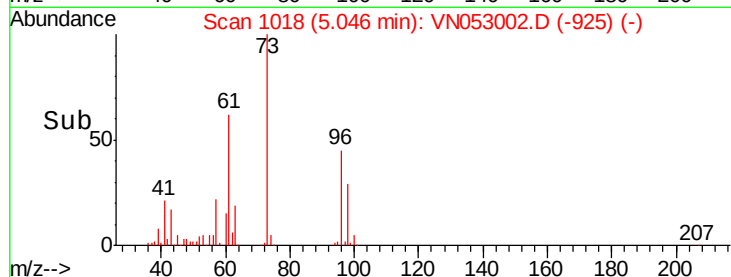
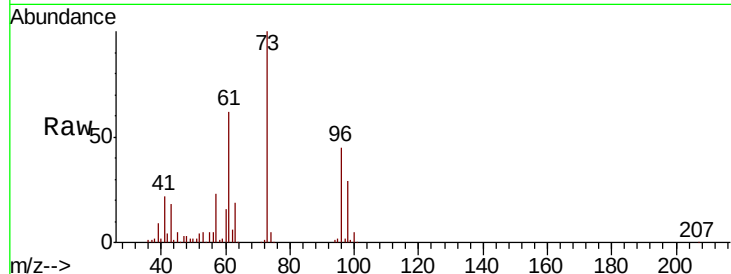
#21
trans-1,2-Dichloroethene
Concen: 19.465 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.6	110.8	166.2
98	64.4	51.4	77.2

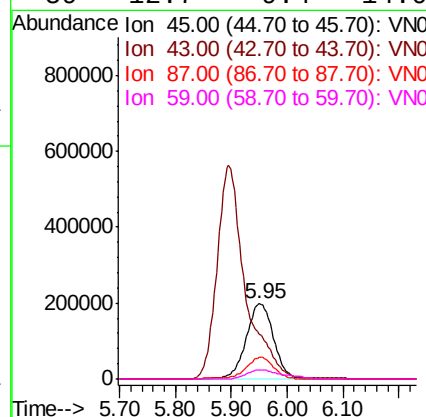
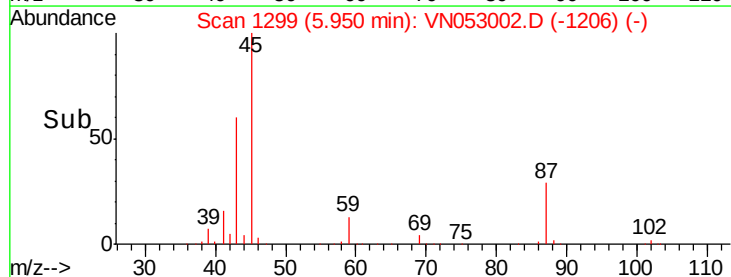
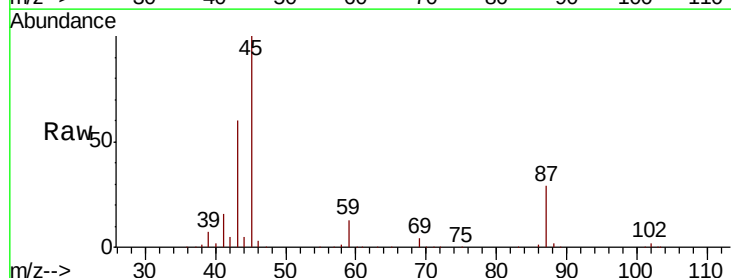
Manual Integrations
APPROVED

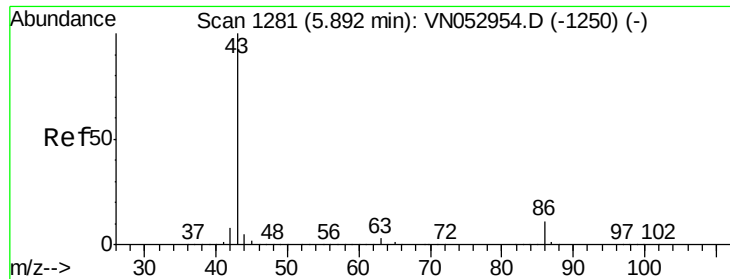
MMDadoda
12/20/2018 9:34:23 AM



#22
Diisopropyl ether
Concen: 20.351 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.5	45.5	68.3
87	28.8	22.0	33.0
59	12.7	9.4	14.0





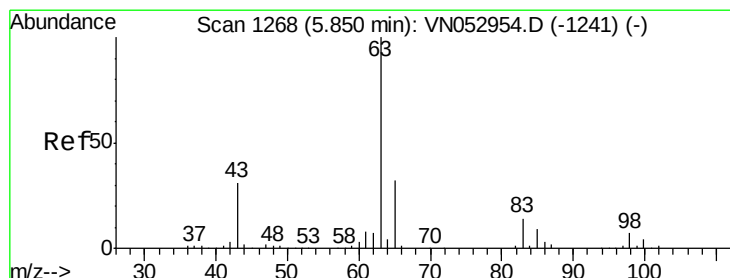
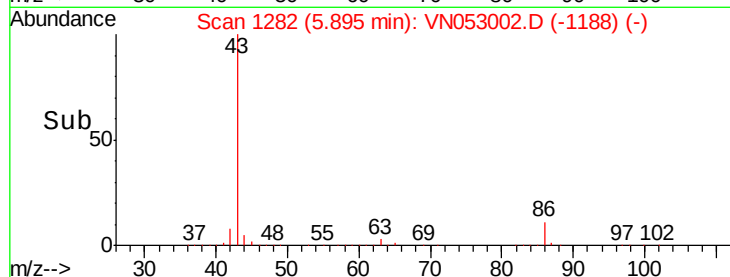
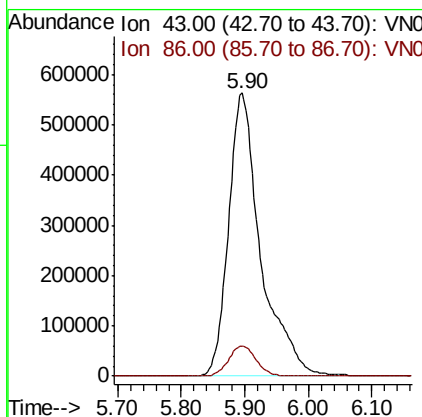
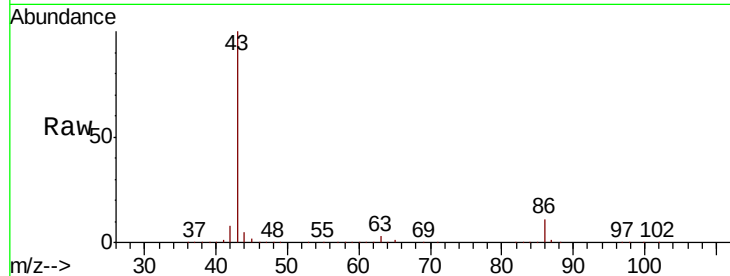
#23
 Vinyl Acetate
 Concen: 102.980 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion: 43 Resp: 1974819
 Ion Ratio Lower Upper
 43 100
 86 10.7 8.1 12.1

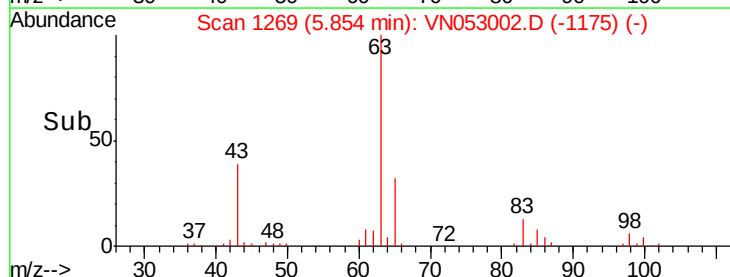
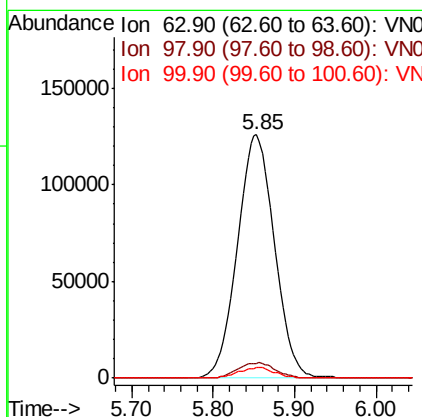
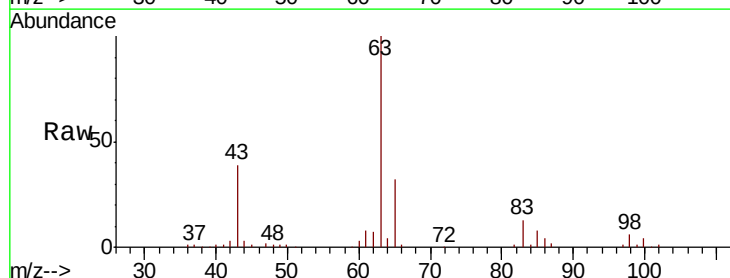
Manual Integrations
 APPROVED

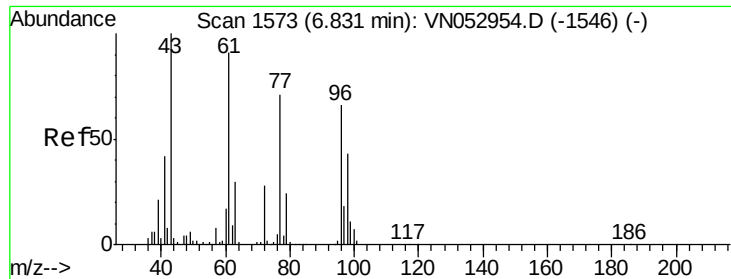
MMDadoda
 12/20/2018 9:34:23 AM



#24
 1,1-Dichloroethane
 Concen: 19.919 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion: 63 Resp: 394737
 Ion Ratio Lower Upper
 63 100
 98 6.0 3.1 9.4
 100 4.1 2.0 5.8





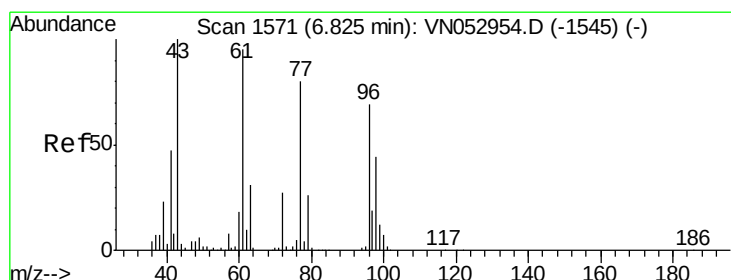
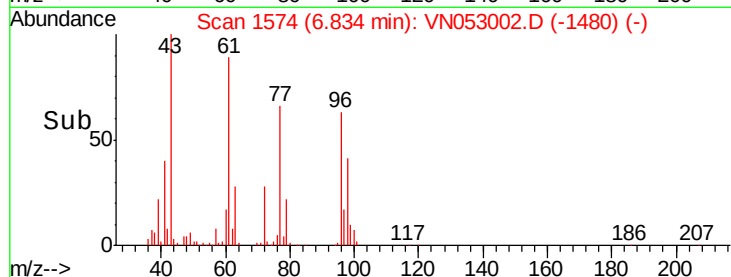
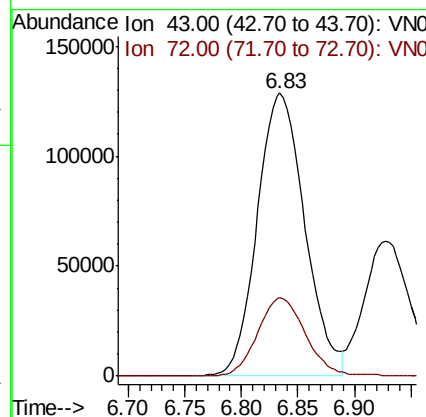
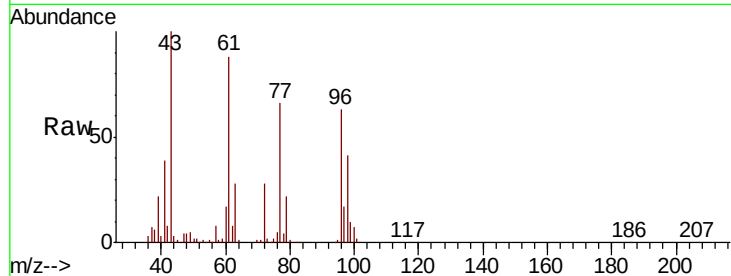
#25
2-Butanone
Concen: 105.790 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
72	27.9	21.0	31.6

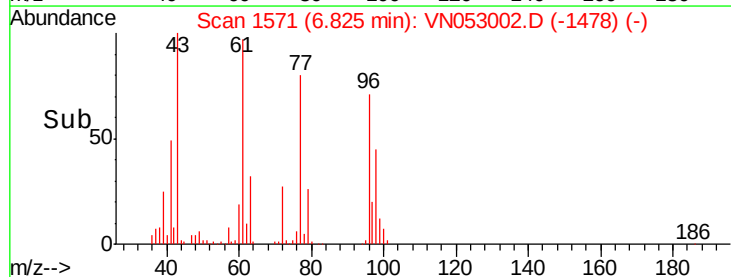
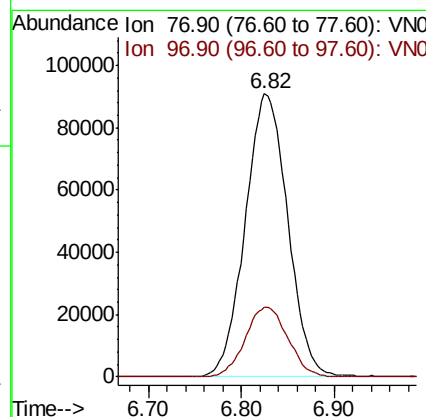
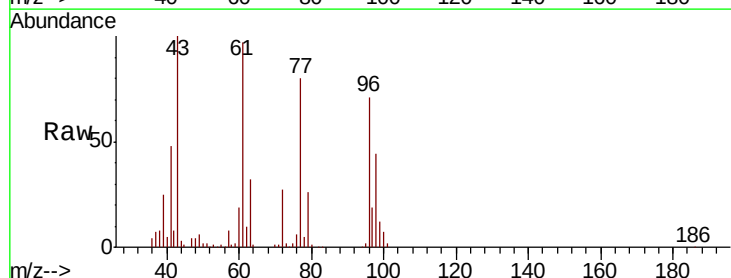
Manual Integrations
APPROVED

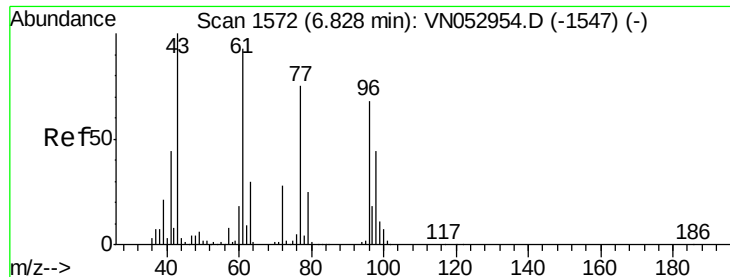
MMDadoda
12/20/2018 9:34:23 AM



#26
2,2-Dichloropropane
Concen: 19.107 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
77	100		
97	24.7	11.9	35.9





#27

cis-1,2-Dichloroethene

Concen: 19.937 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

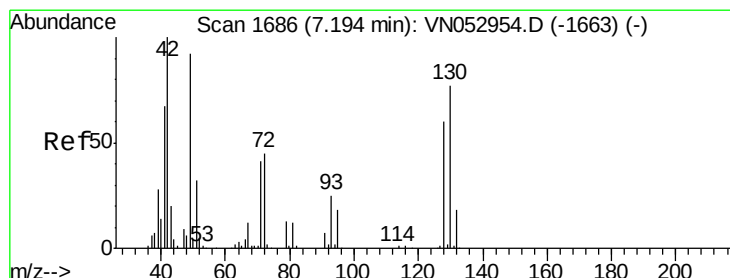
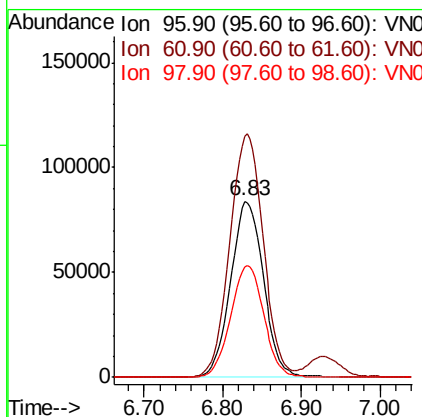
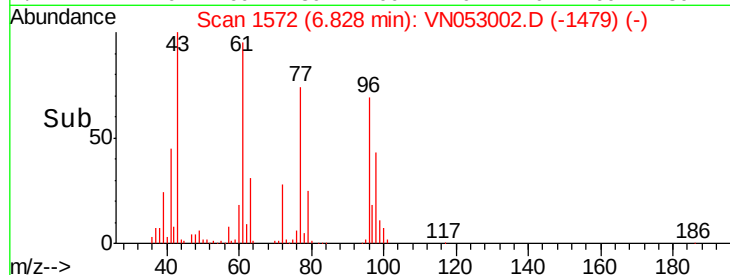
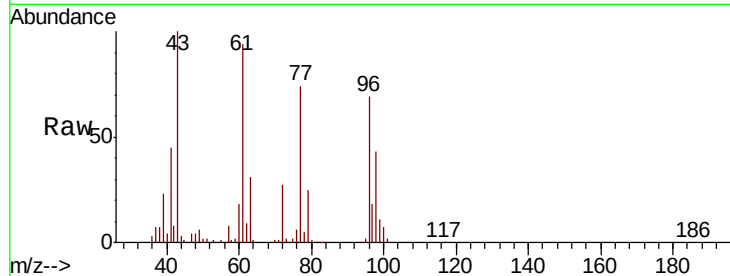
ClientSampleId :

VN1219WBS01

Tot Ion:	96	Resp:	244600
Ion	Ratio	Lower	Upper
96	100		
61	140.2	0.0	284.2
98	64.0	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
12/20/2018 9:34:23 AM



#28

Bromochloromethane

Concen: 21.525 ug/l

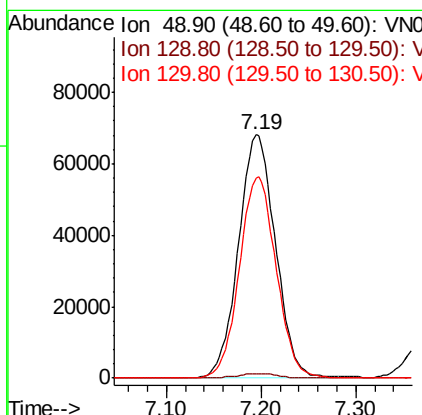
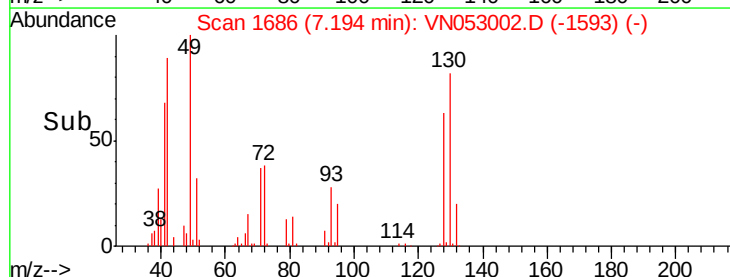
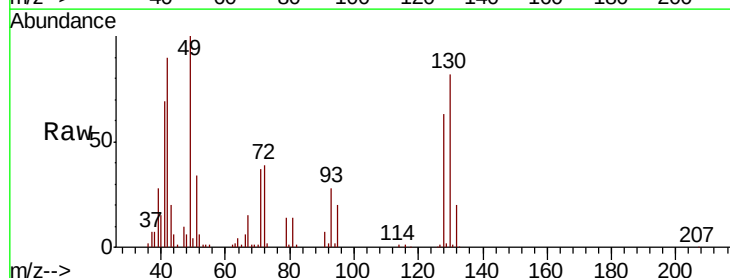
RT: 7.19 min Scan# 1686

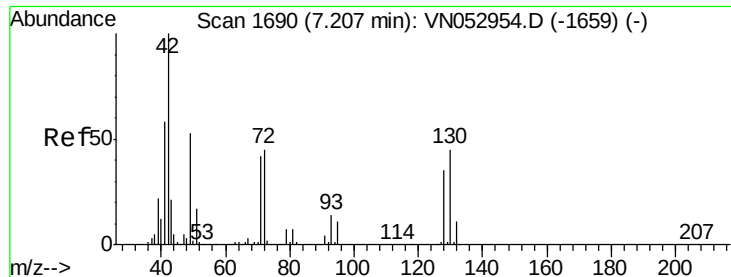
Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Tgt Ion:	49	Resp:	184835
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	82.4	63.3	94.9





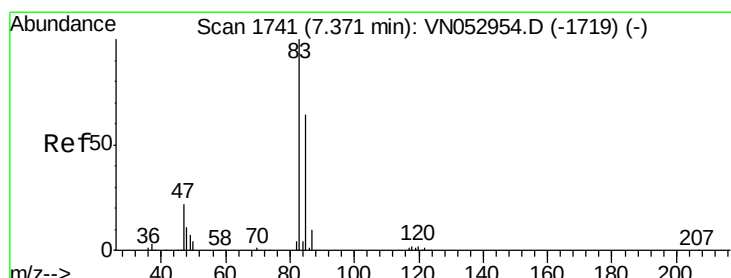
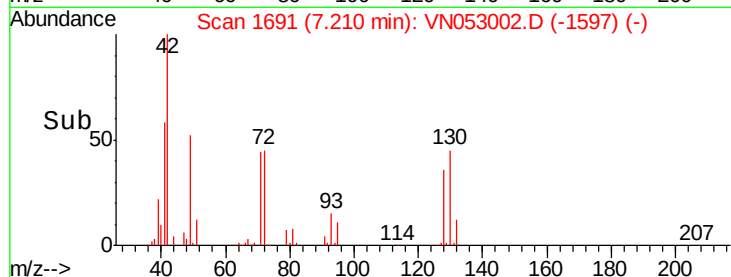
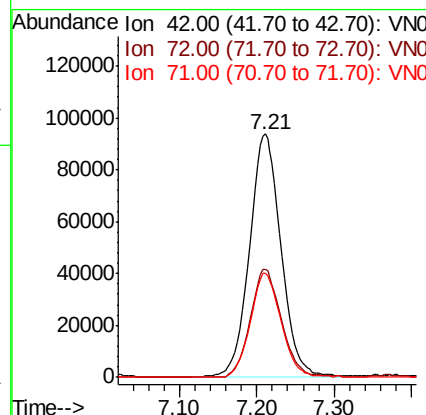
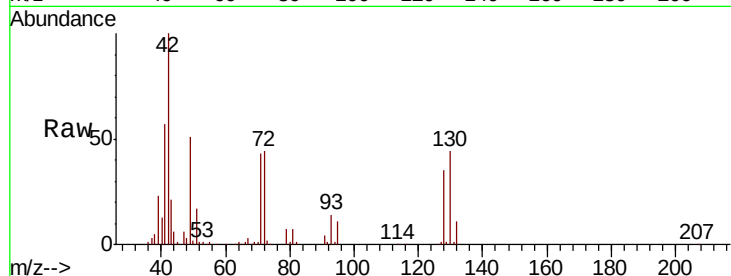
#29
Tetrahydrofuran
Concen: 100.586 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.4	34.7	52.1
71	41.9	32.3	48.5

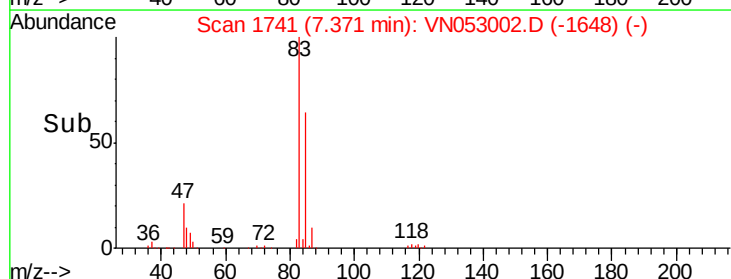
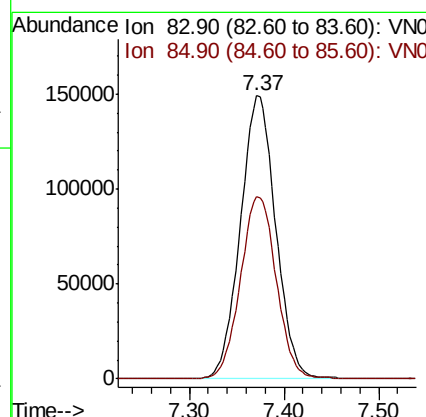
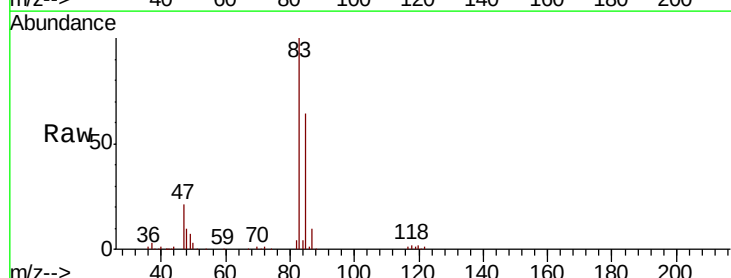
Manual Integrations
APPROVED

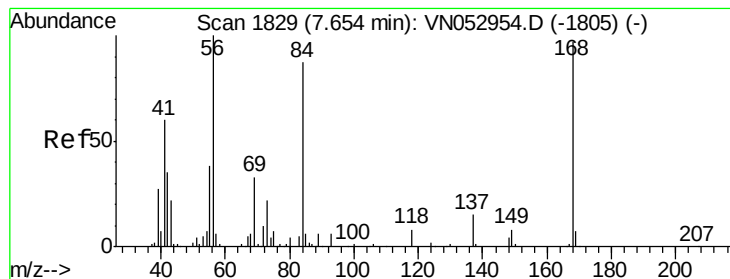
MMDadoda
12/20/2018 9:34:23 AM



#30
Chloroform
Concen: 19.879 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.1	78.1





#31

Cyclohexane

Concen: 19.789 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

Tot Ion: 56 Resp: 379601

Ion Ratio Lower Upper

56 100

69 36.3 26.6 39.8

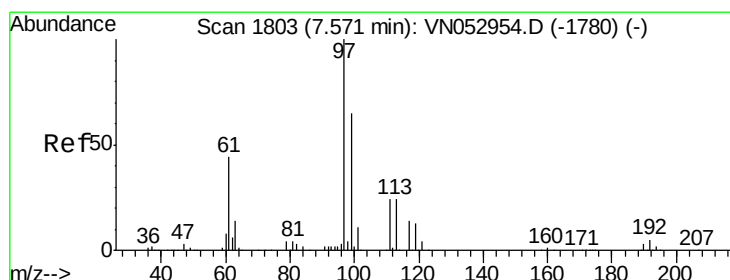
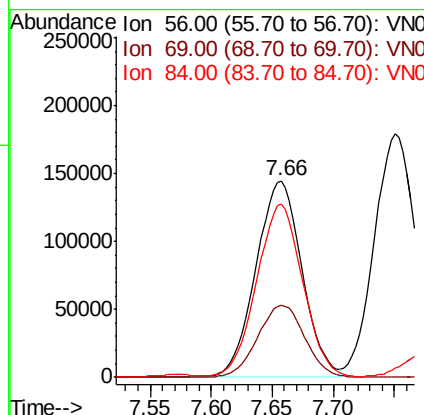
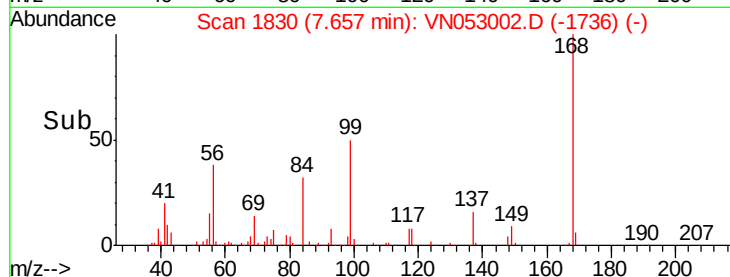
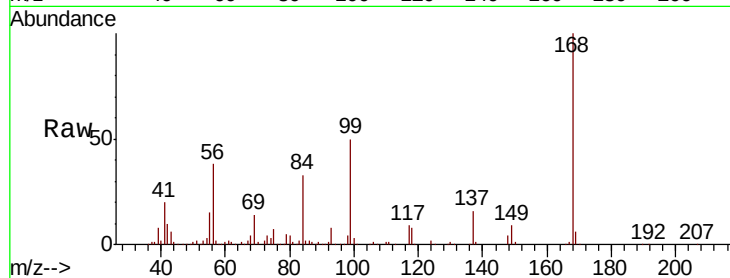
84 86.9 68.4 102.6

Manual Integrations

APPROVED

MMDadoda

12/20/2018 9:34:23 AM



#32

1,1,1-Trichloroethane

Concen: 19.535 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

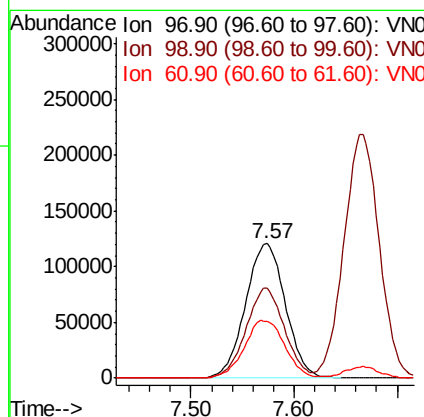
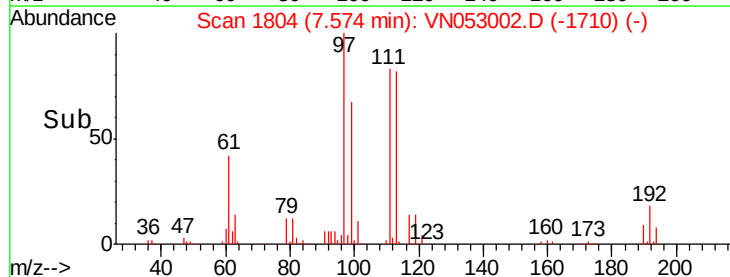
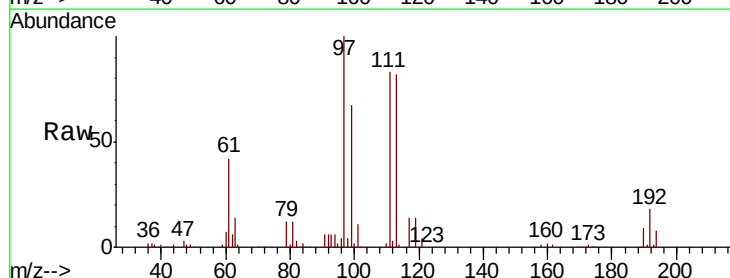
Tgt Ion: 97 Resp: 323955

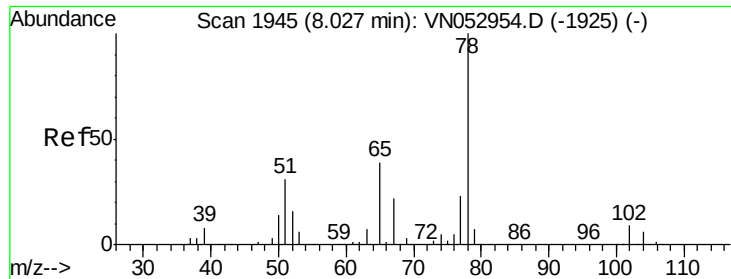
Ion Ratio Lower Upper

97 100

99 64.8 51.1 76.7

61 43.8 35.0 52.6





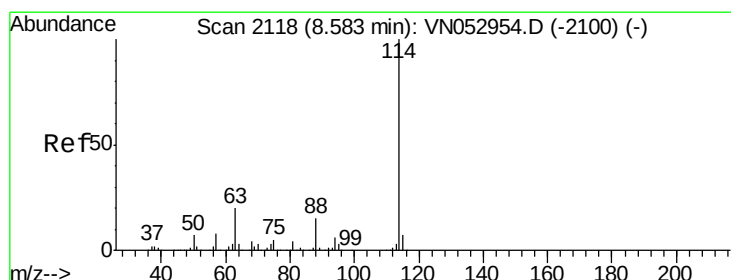
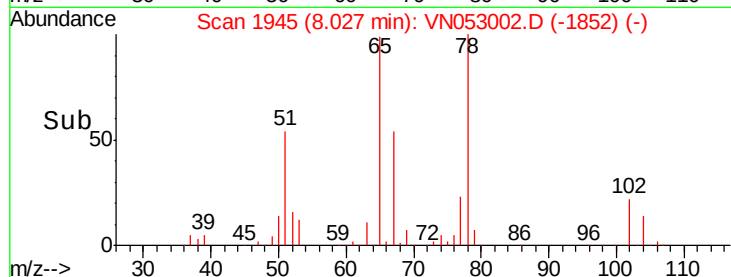
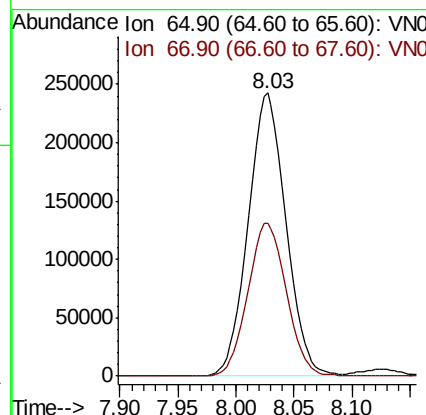
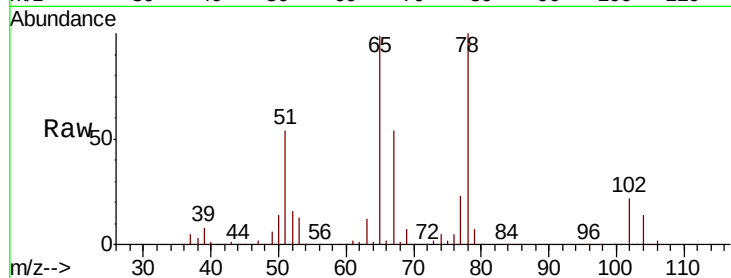
#33
 1,2-Dichloroethane-d4
 Concen: 19.535 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	552055		
67	55.1	0.0	110.4	

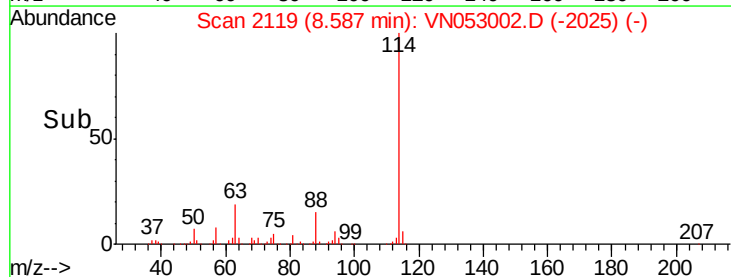
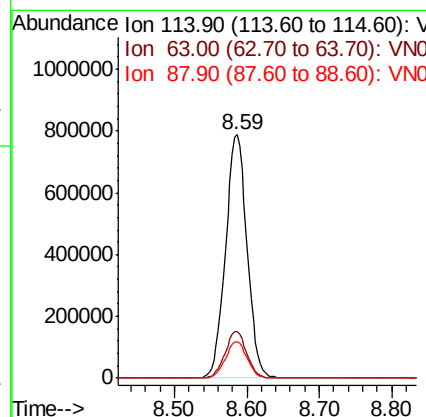
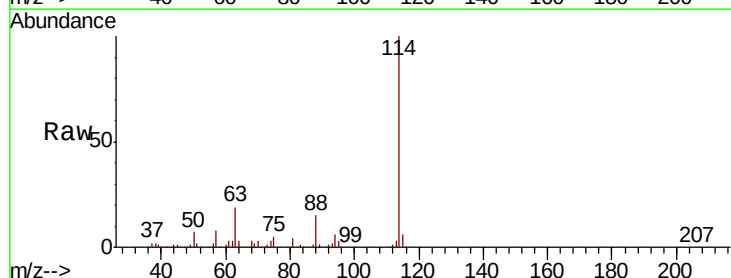
Manual Integrations
 APPROVED

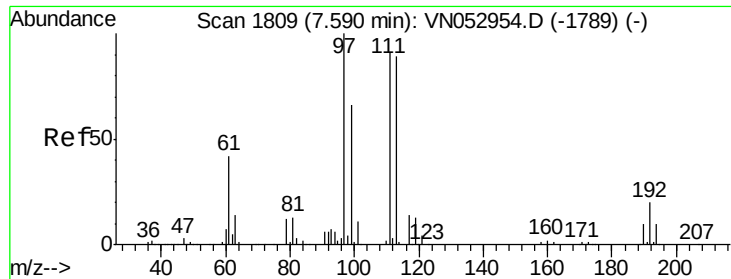
MMDadoda
 12/20/2018 9:34:23 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1617345		
63	19.2	0.0	39.8	
88	15.0	0.0	31.0	





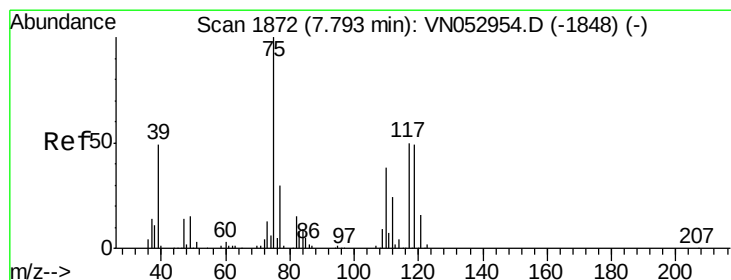
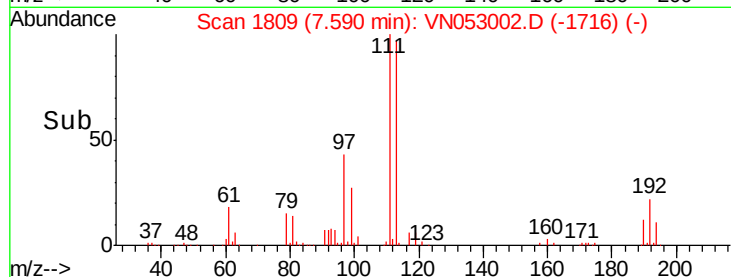
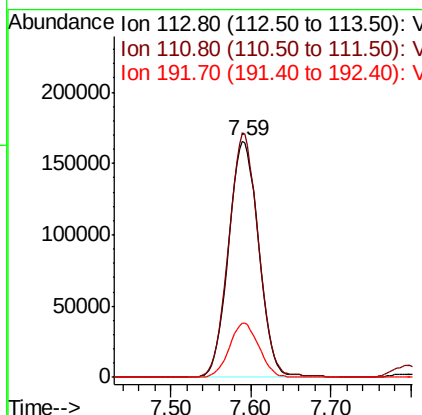
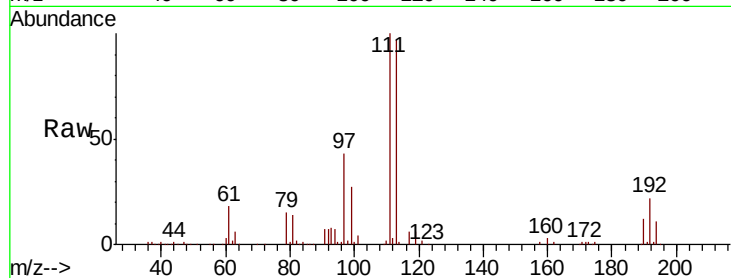
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	423350		
111	102.1	83.0	124.4	
192	22.6	17.5	26.3	

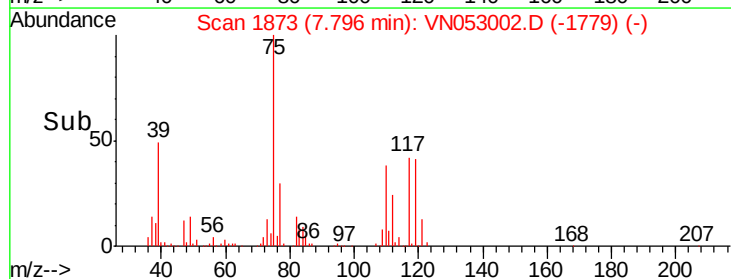
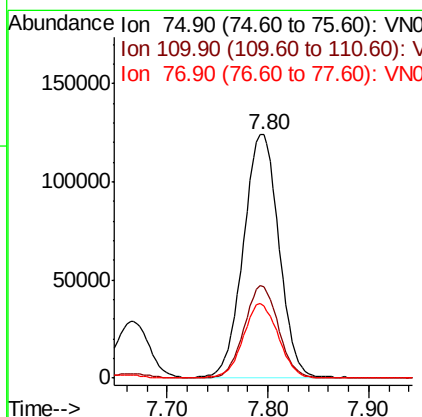
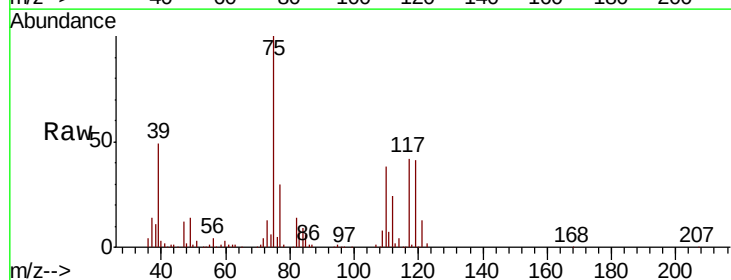
Manual Integrations
APPROVED

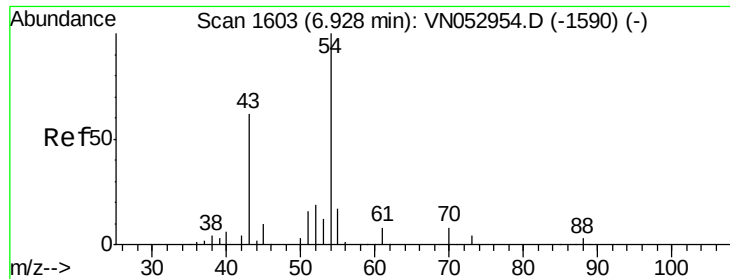
MMDadoda
12/20/2018 9:34:23 AM



#36
1,1-Dichloropropene
Concen: 19.432 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	301652		
110	36.7	18.2	54.6	
77	30.5	24.9	37.3	





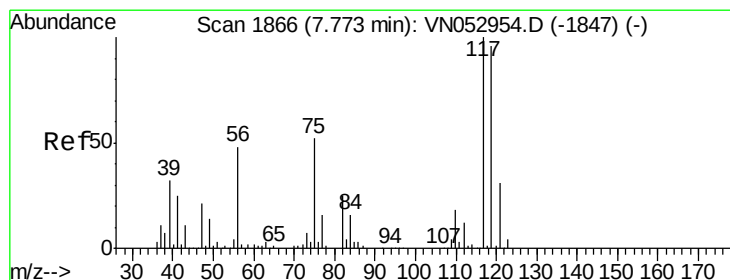
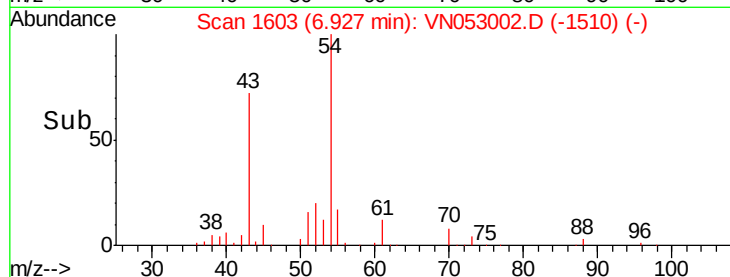
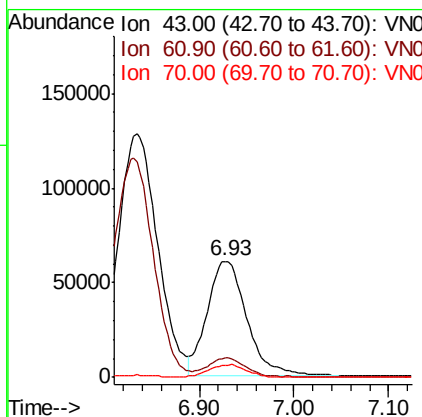
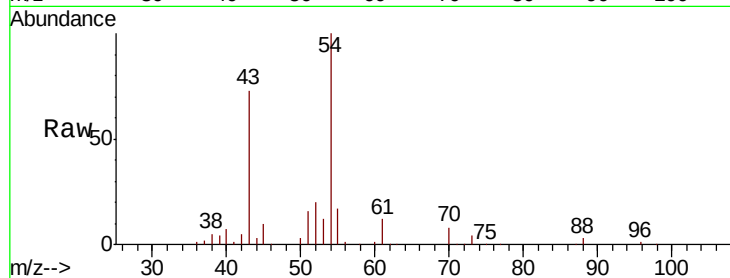
#37
Ethyl Acetate
Concen: 20.425 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	43	61	70
Ratio	100	14.8	10.4
Lower		11.8	8.4
Upper		17.6	12.6

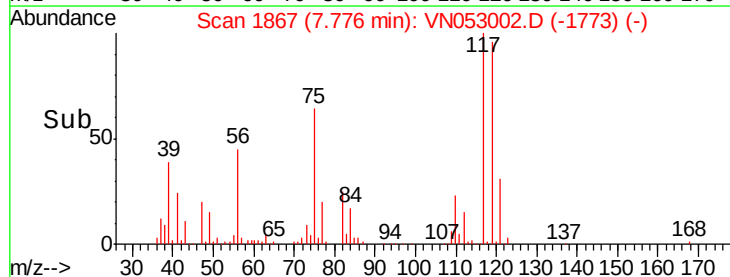
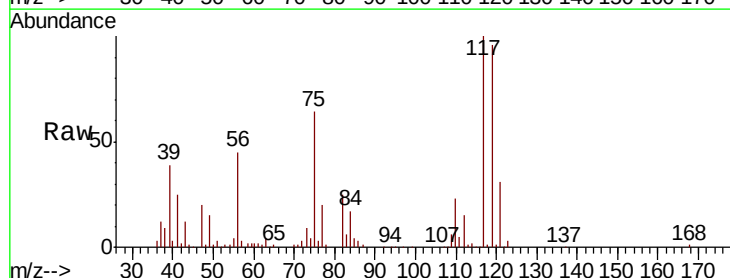
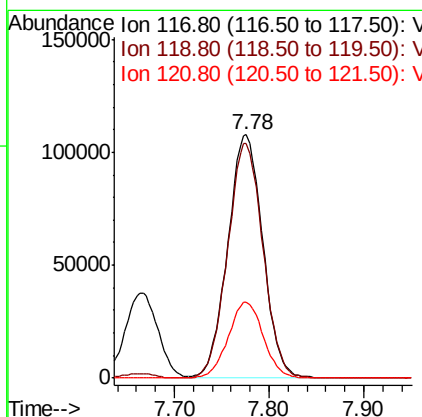
Manual Integrations
APPROVED

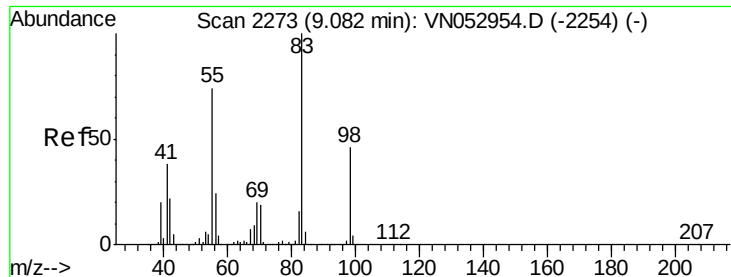
MMDadoda
12/20/2018 9:34:23 AM



#38
Carbon Tetrachloride
Concen: 19.453 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	117	119	121
Ratio	100	96.1	31.5
Lower		77.1	24.9
Upper		115.7	37.3





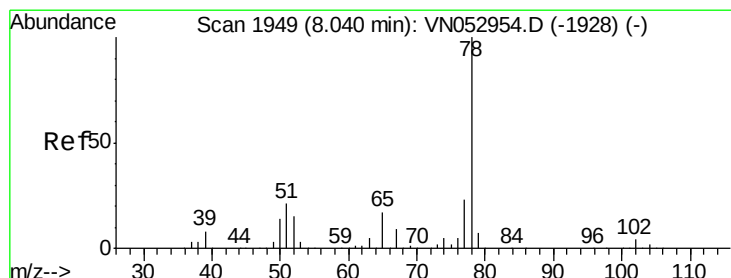
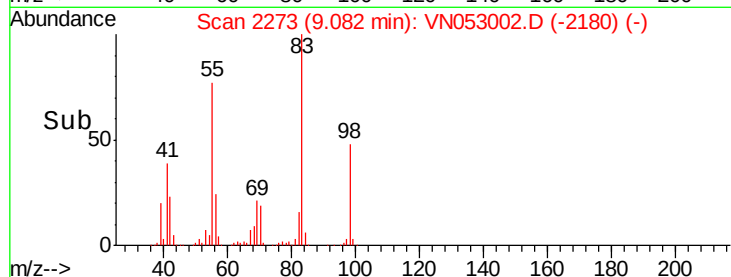
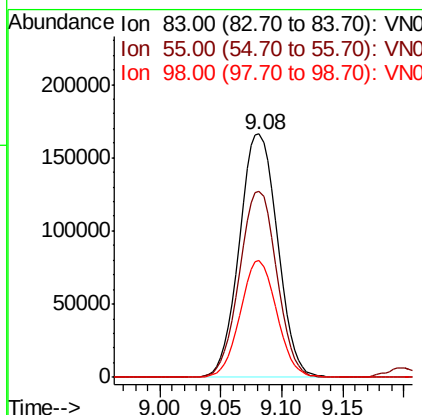
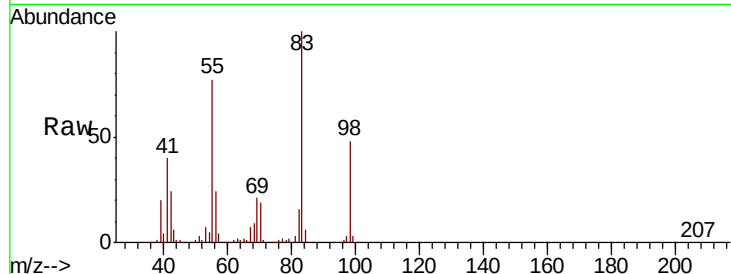
#39
Methylvlcyclohexane
Concen: 19.062 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	76.6	61.3	91.9	
98	47.8	37.0	55.4	

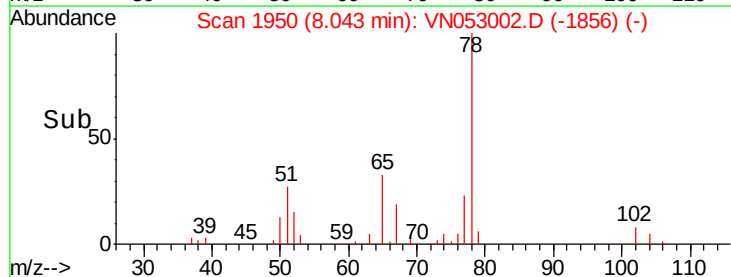
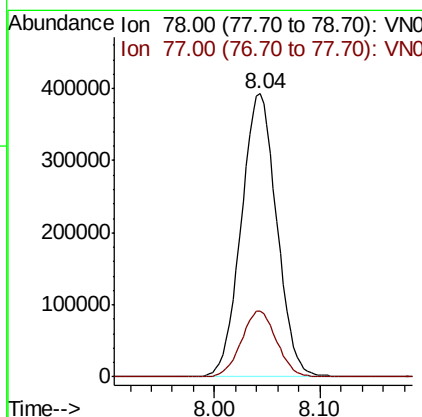
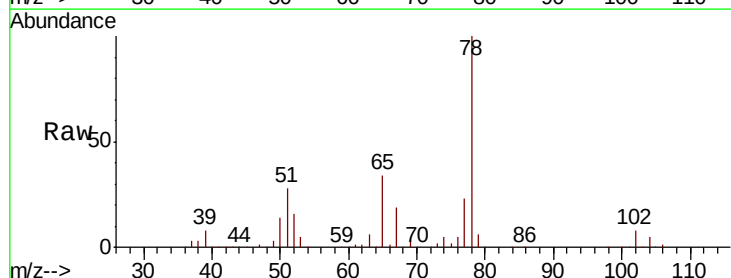
Manual Integrations
APPROVED

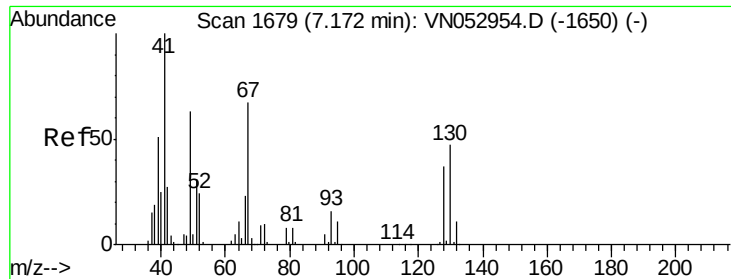
MMDadoda
12/20/2018 9:34:23 AM



#40
Benzene
Concen: 19.934 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.3	18.5	27.7	





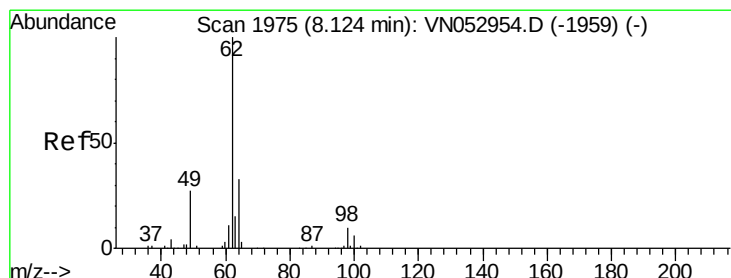
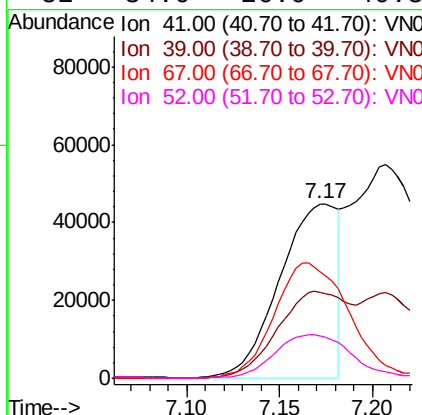
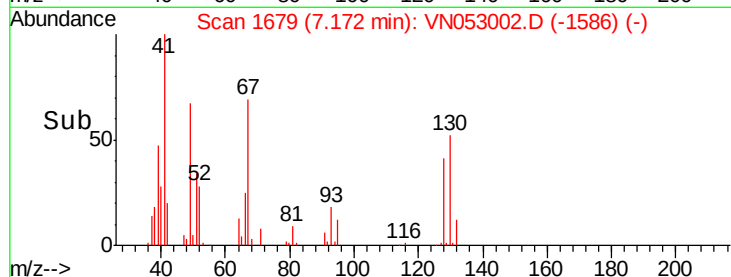
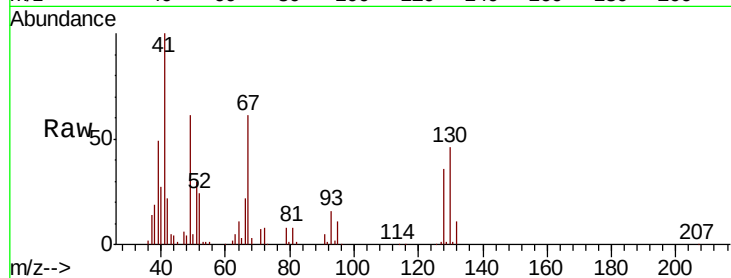
#41
Methacrylonitrile
Concen: 19.440 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	41	Resp	97339
Ion Ratio	Lower	Upper	
41	100		
39	61.9	48.0	72.0
67	86.5	70.3	105.5
52	34.0	26.9	40.3

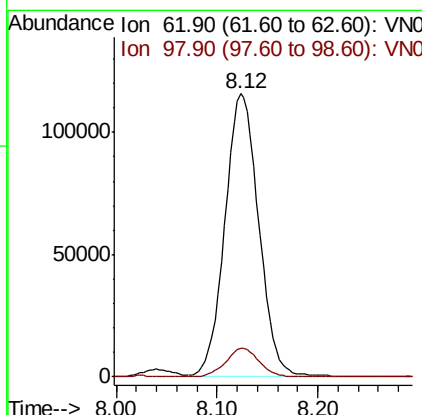
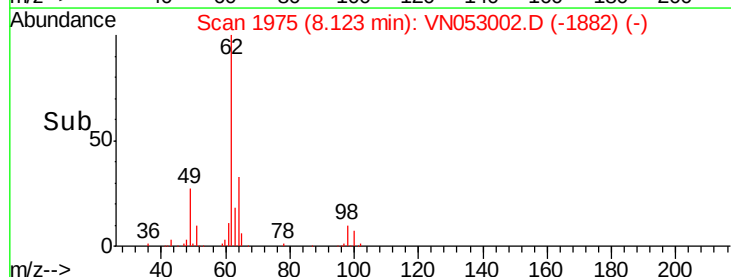
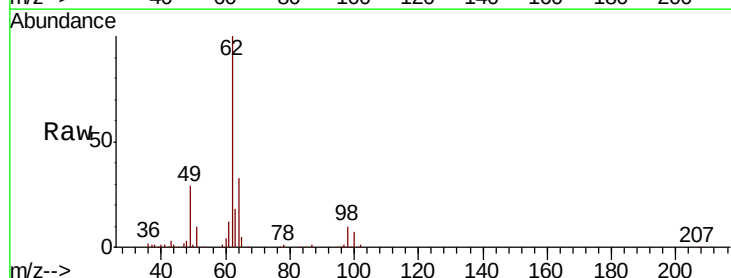
Manual Integrations
APPROVED

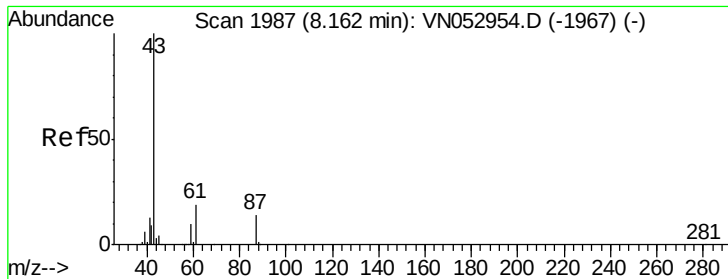
MMDadoda
12/20/2018 9:34:23 AM



#42
1,2-Dichloroethane
Concen: 19.686 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	62	Resp	268534
Ion Ratio	Lower	Upper	
62	100		
98	10.0	0.0	19.0





#43

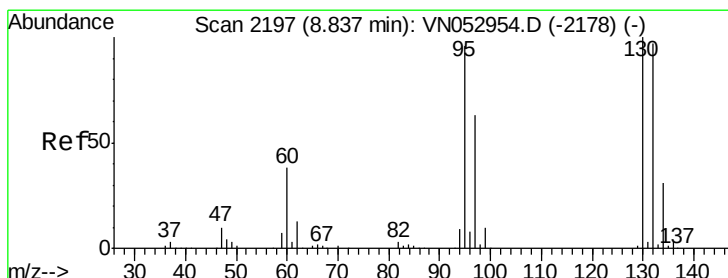
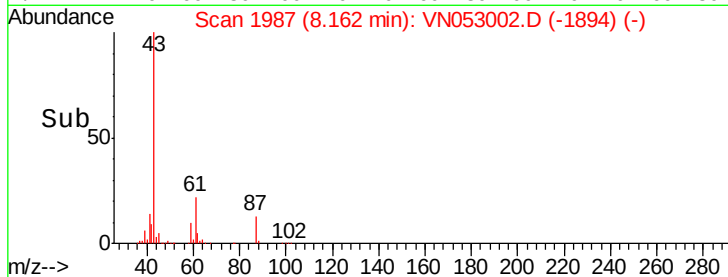
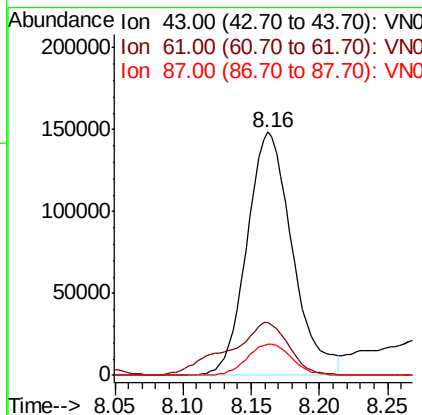
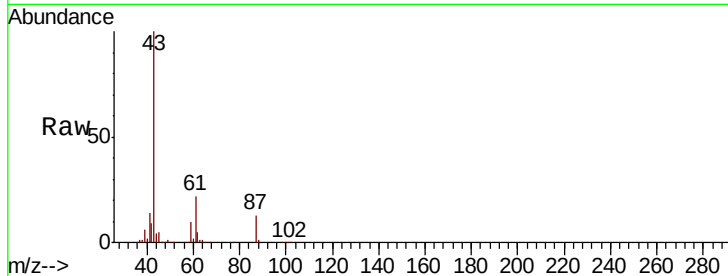
Isopropyl Acetate
 Concen: 19.714 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.2	22.9	34.3
87	12.7	10.6	15.8

Manual Integrations
 APPROVED

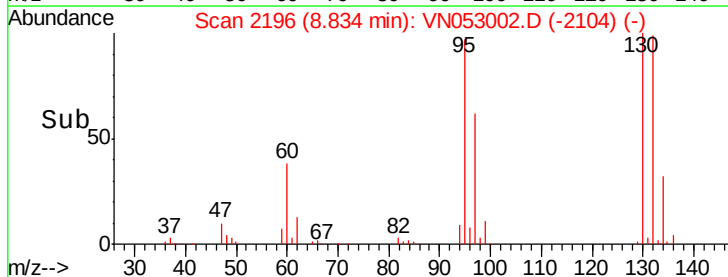
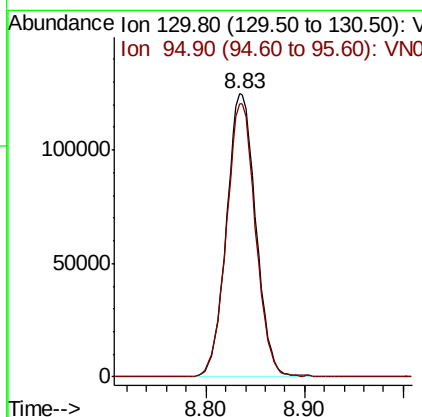
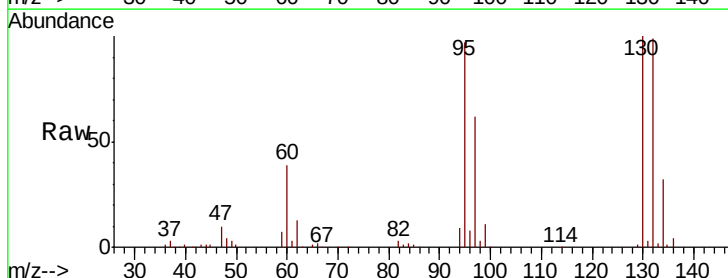
MMDadoda
 12/20/2018 9:34:23 AM

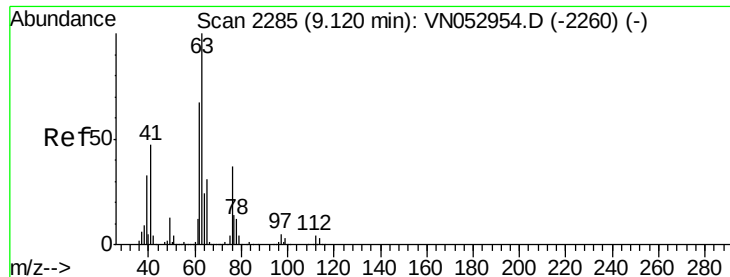


#44

Trichloroethene
 Concen: 19.368 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.6	0.0	197.8





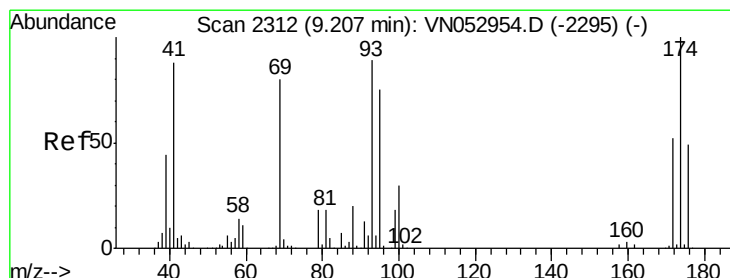
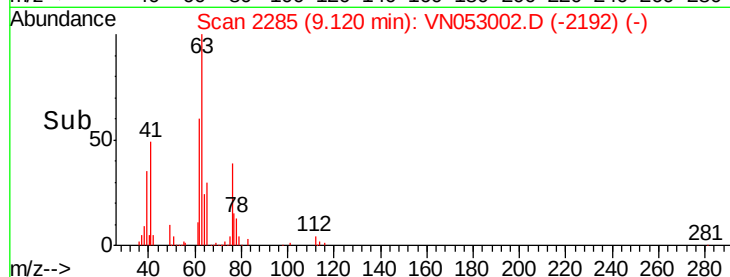
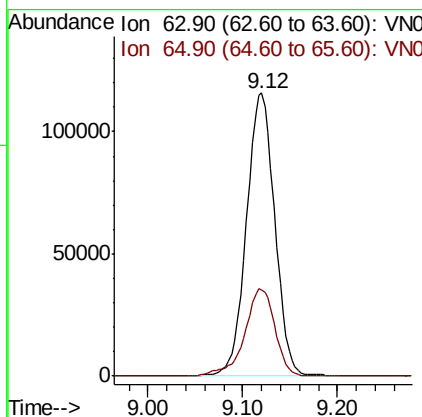
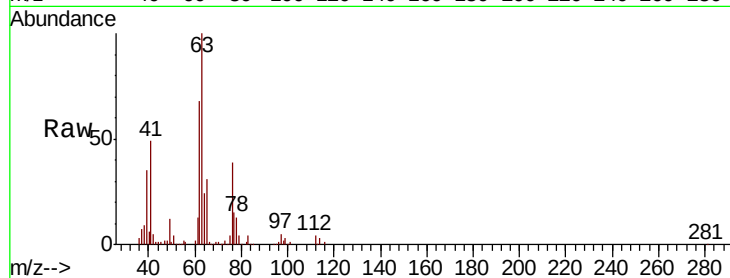
#45
 1,2-Dichloropropane
 Concen: 20.055 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.6	37.0

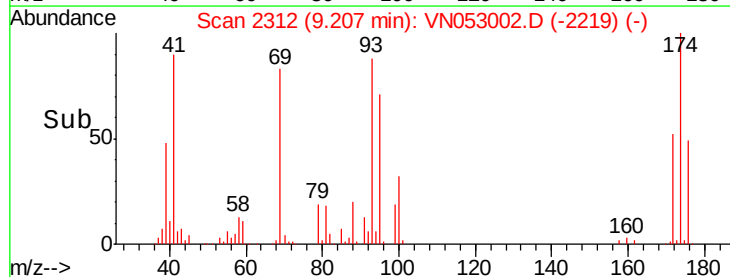
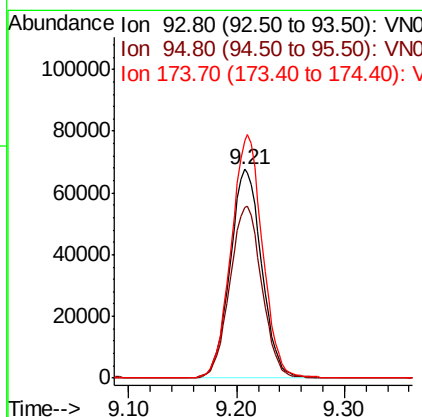
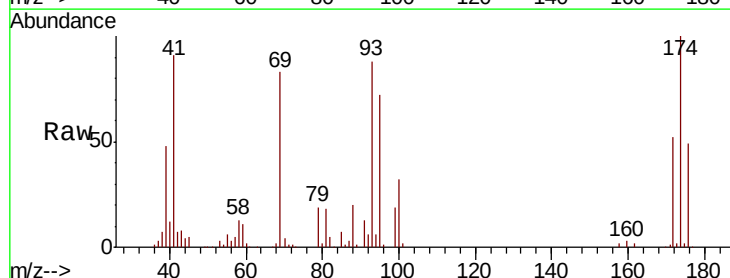
Manual Integrations
 APPROVED

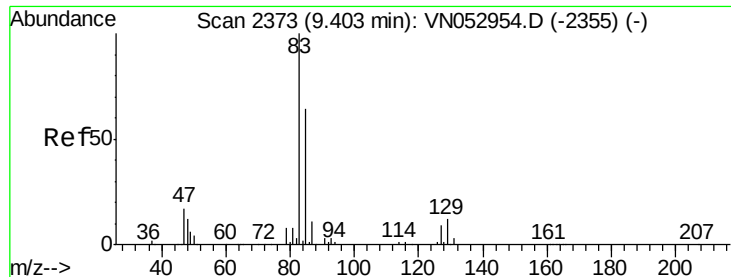
MMDadoda
 12/20/2018 9:34:23 AM



#46
 Dibromomethane
 Concen: 19.730 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.0	67.8	101.6
174	115.5	89.0	133.4





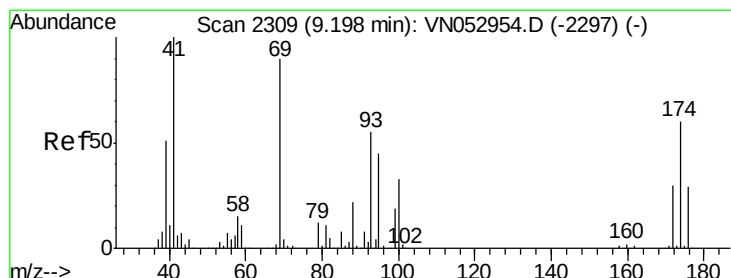
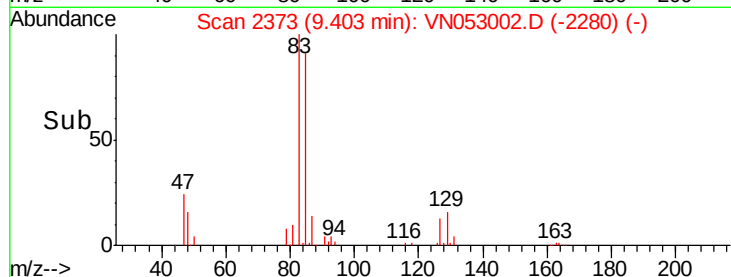
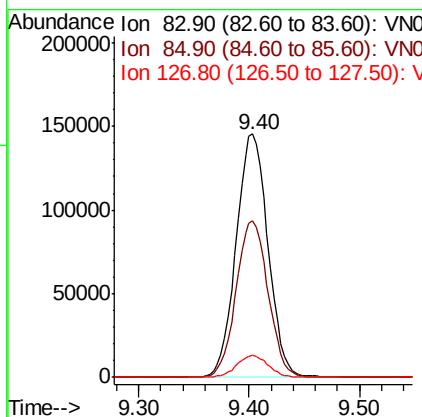
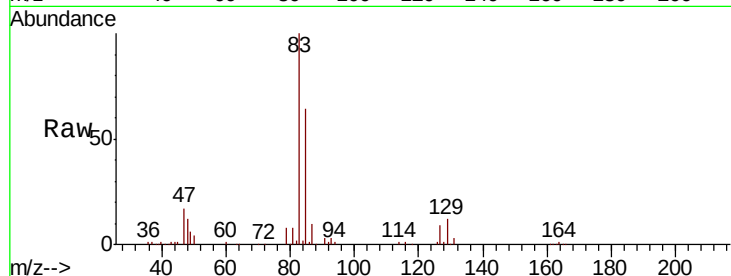
#47
Bromodichloromethane
Concen: 19.482 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	290148		
85	64.3	51.6	77.4	
127	8.9	7.1	10.7	

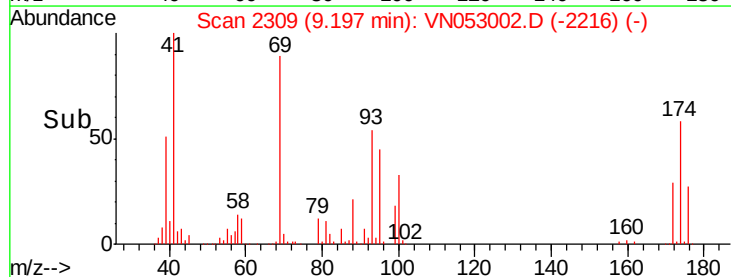
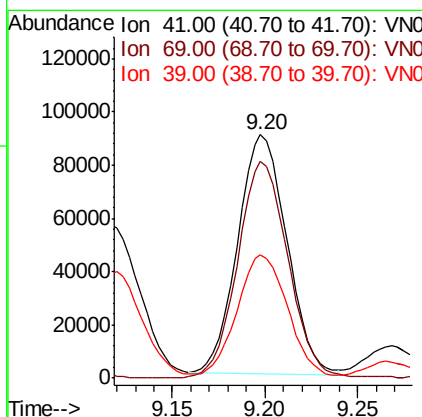
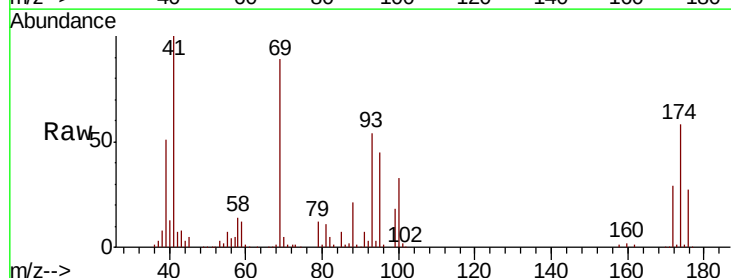
Manual Integrations
APPROVED

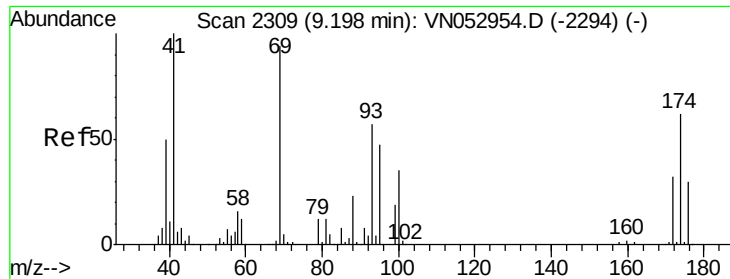
MMDadoda
12/20/2018 9:34:23 AM



#48
Methyl methacrylate
Concen: 19.695 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	165621		
69	93.2	72.2	108.2	
39	53.1	41.9	62.9	





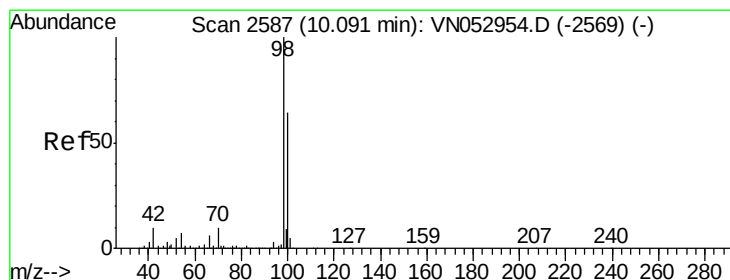
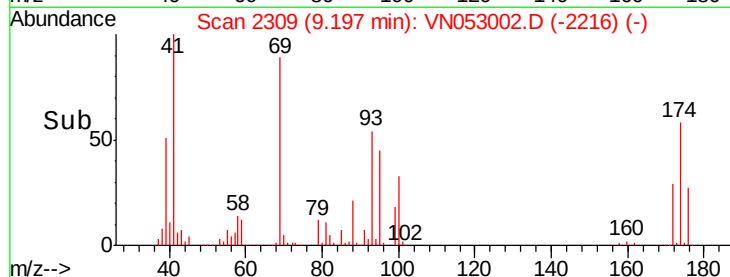
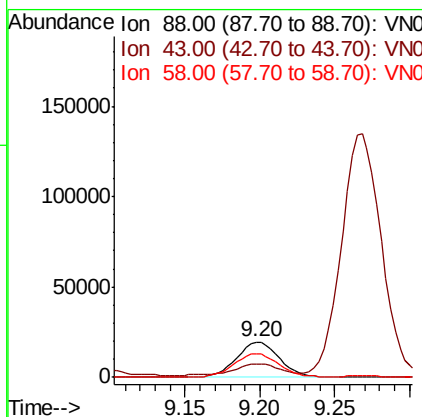
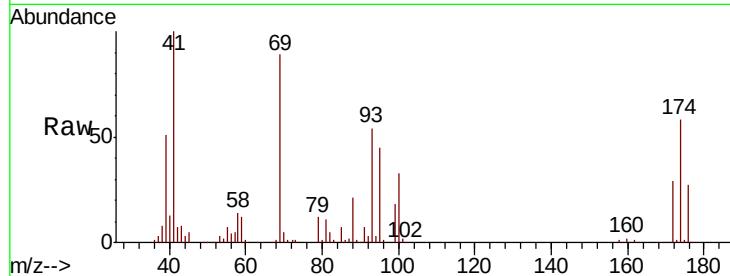
#49
1,4-Dioxane
Concen: 365.878 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	88	Resp	38920
Ion	Ratio	Lower	Upper
88	100		
43	33.0	26.6	40.0
58	71.2	58.4	87.6

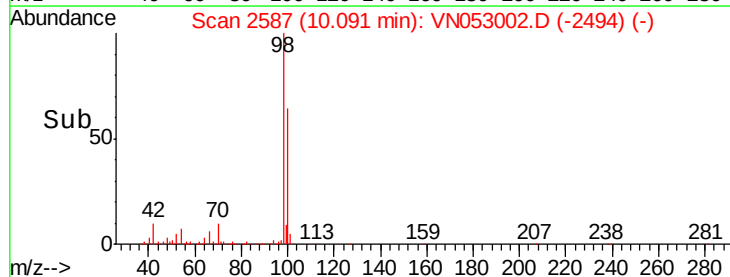
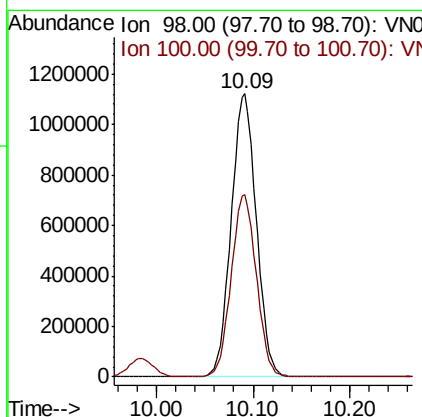
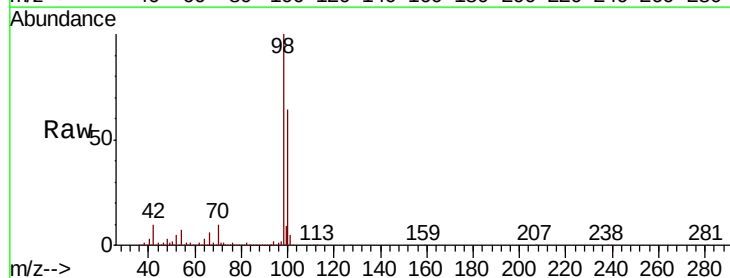
Manual Integrations
APPROVED

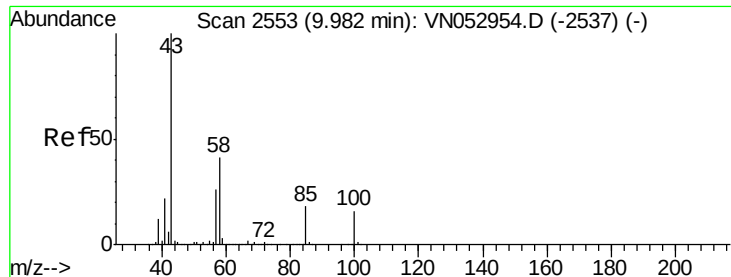
MMDadoda
12/20/2018 9:34:23 AM



#50
Toluene-d8
Concen: 365.878 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	98	Resp	2024058
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 101.533 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

Tot Ion: 43 Resp: 852112

Ion Ratio Lower Upper

43 100

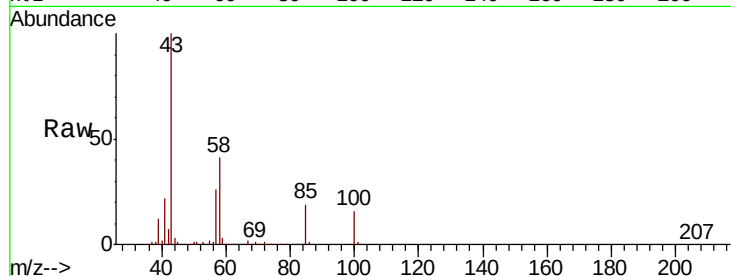
58 40.7 32.2 48.4

Manual Integrations

APPROVED

MMDadoda

12/20/2018 9:34:23 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

500000

400000

300000

200000

100000

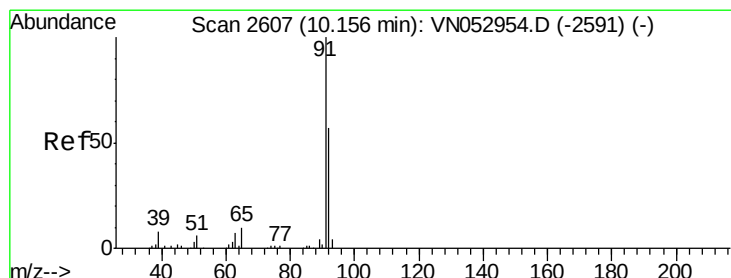
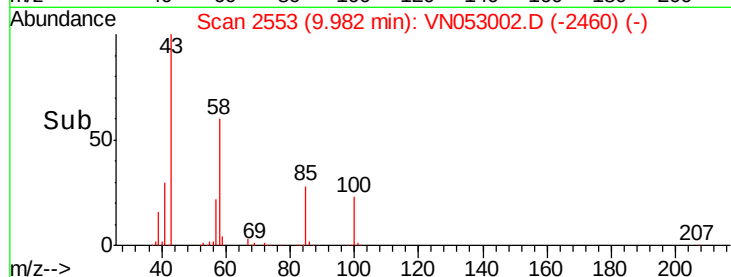
0

9.90

10.00

10.10

Time-->



#52

Toluene

Concen: 19.837 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053002.D

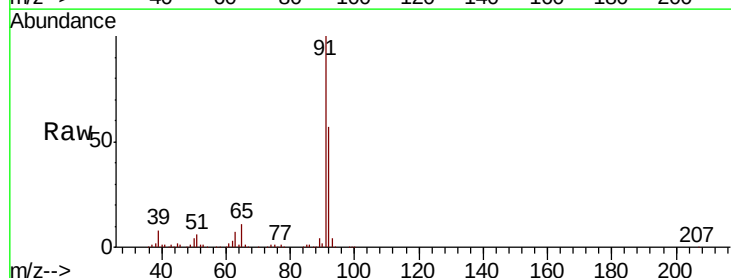
Acq: 19 Dec 2018 11:16

Tgt Ion: 92 Resp: 567735

Ion Ratio Lower Upper

92 100

91 175.1 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

600000

500000

400000

300000

200000

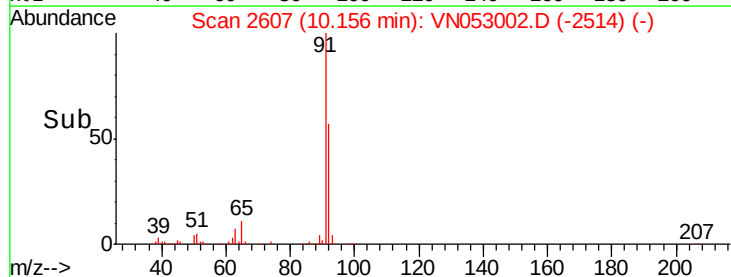
100000

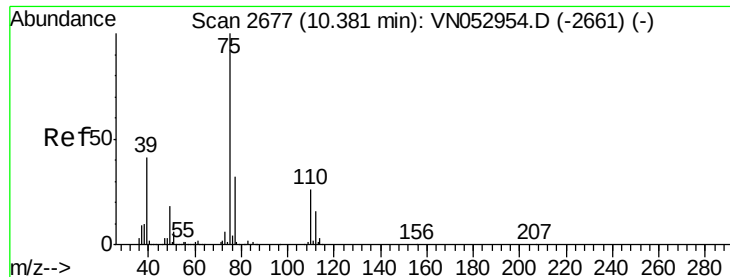
0

10.10

10.20

Time-->





#53

t-1,3-Dichloropropene

Concen: 18.973 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

Tot Ion: 75 Resp: 297128

Ion Ratio Lower Upper

75 100

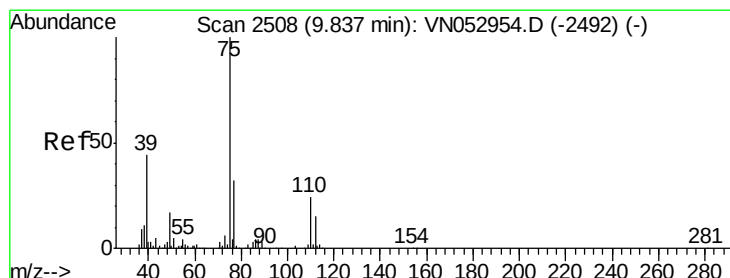
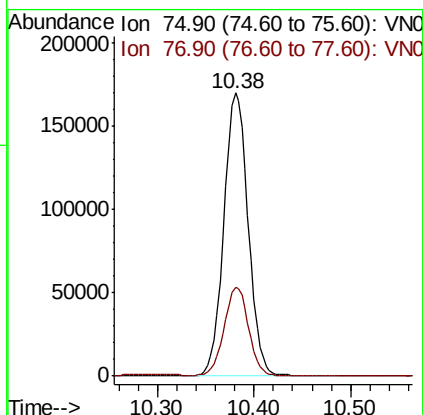
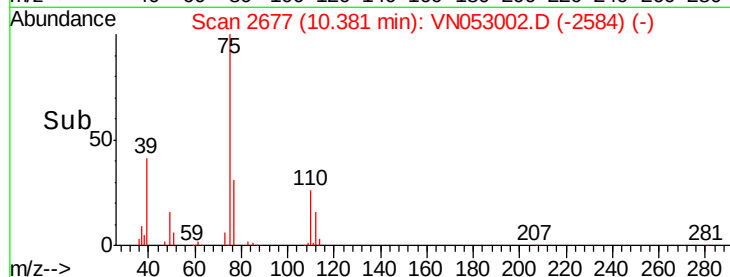
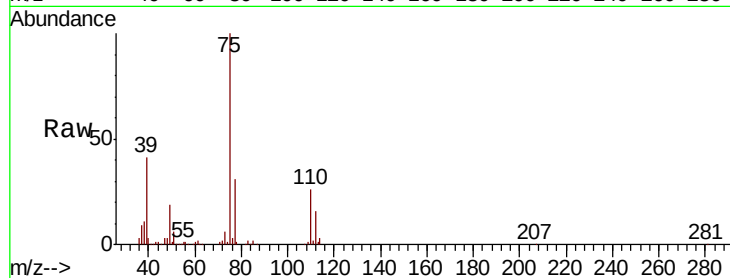
77 31.3 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

12/20/2018 9:34:23 AM



#54

cis-1,3-Dichloropropene

Concen: 19.512 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

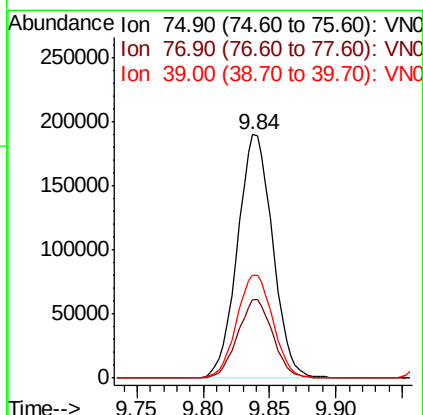
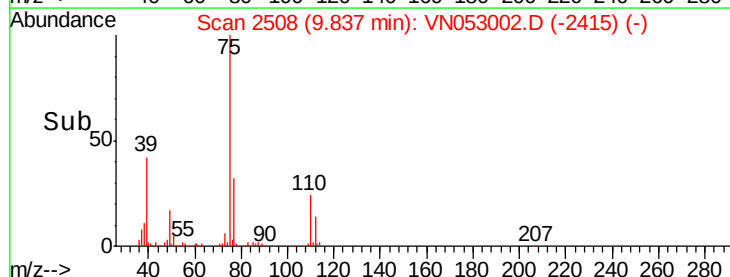
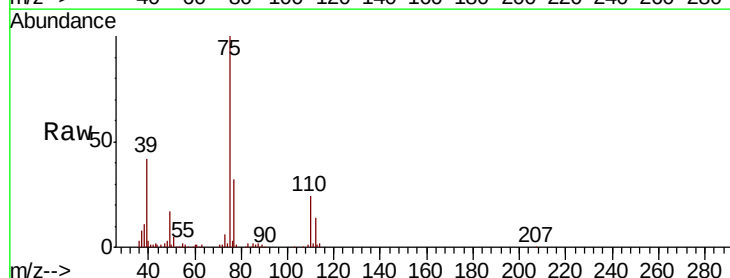
Tgt Ion: 75 Resp: 350747

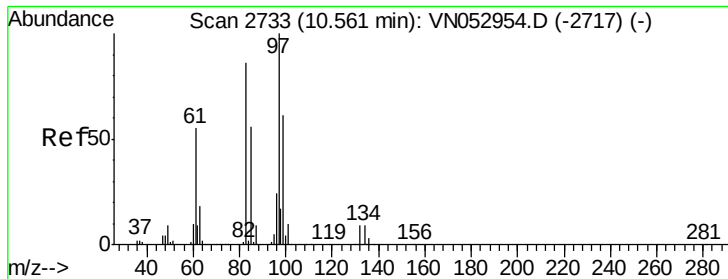
Ion Ratio Lower Upper

75 100

77 32.1 25.8 38.8

39 42.5 34.8 52.2





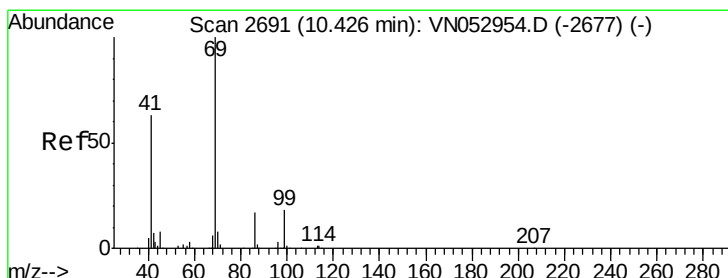
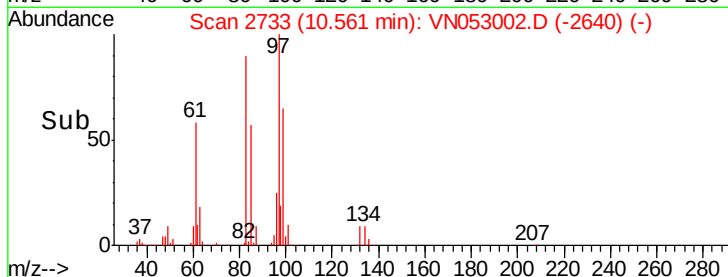
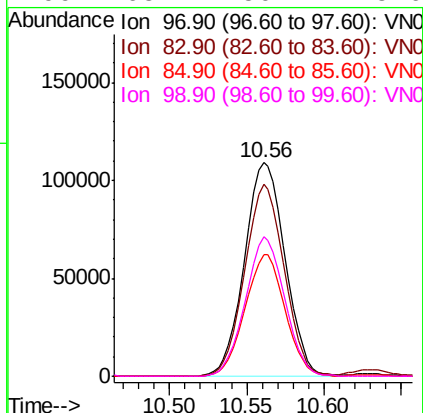
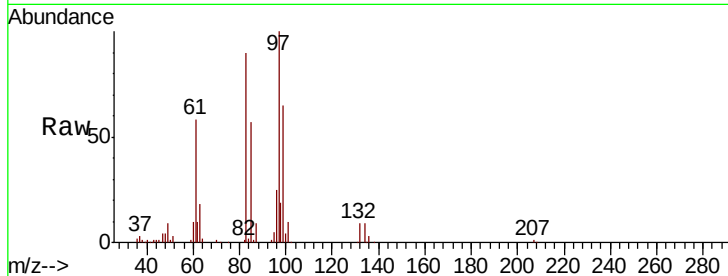
#55
 1,1,2-Trichloroethane
 Concen: 19.980 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		199495		
83	90.0	70.9	106.3		
85	57.0	45.4	68.2		
99	65.4	50.4	75.6		

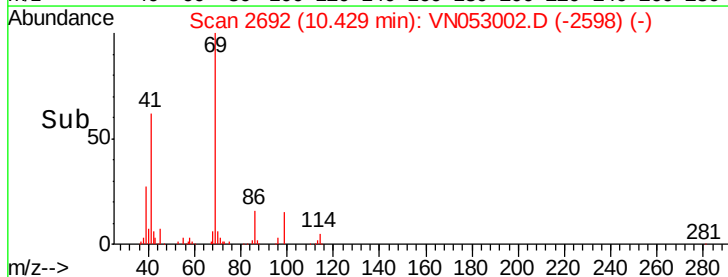
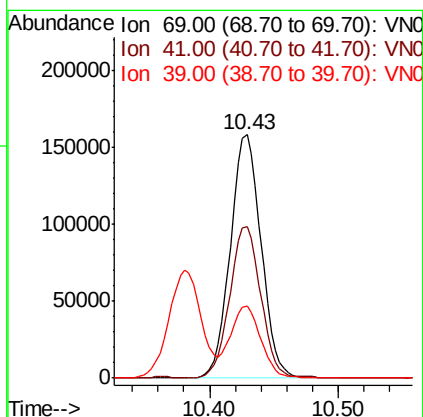
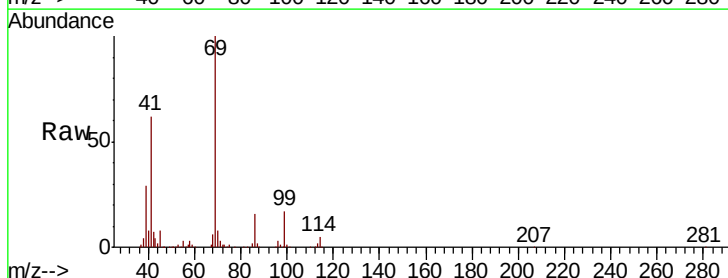
Manual Integrations
 APPROVED

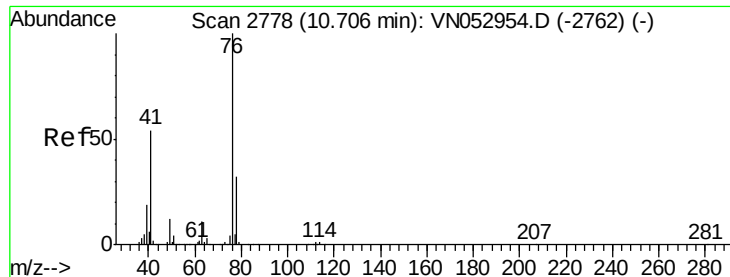
MMDadoda
 12/20/2018 9:34:23 AM



#56
 Ethyl methacrylate
 Concen: 19.923 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		263300		
41	61.9	51.7	77.5		
39	29.2	24.6	37.0		





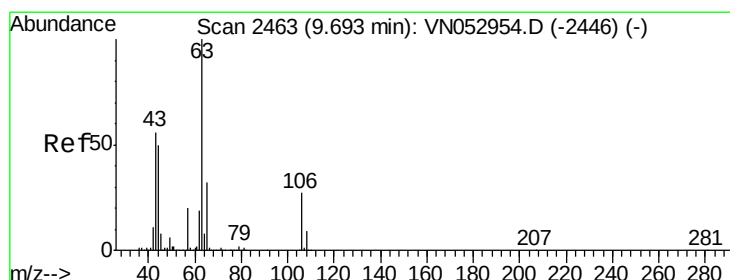
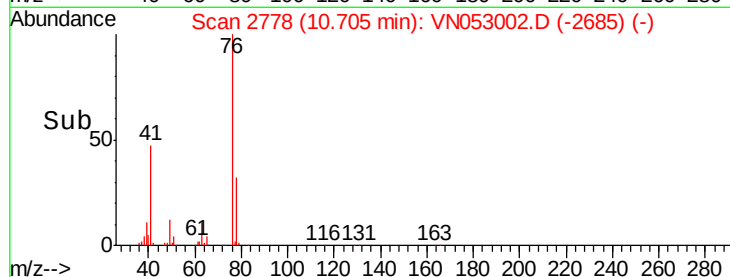
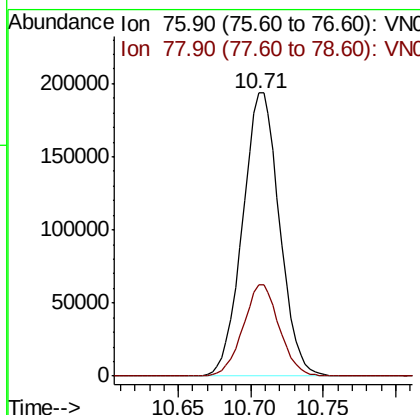
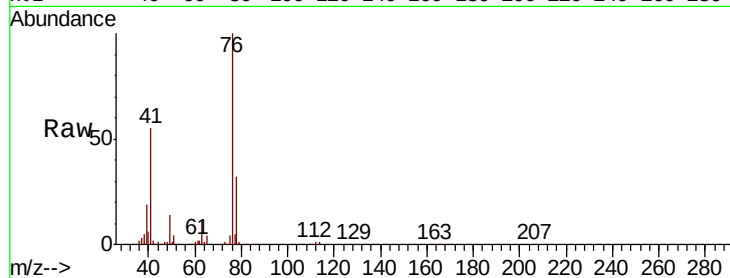
#57
 1,3-Dichloropropane
 Concen: 20.043 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.8	38.8

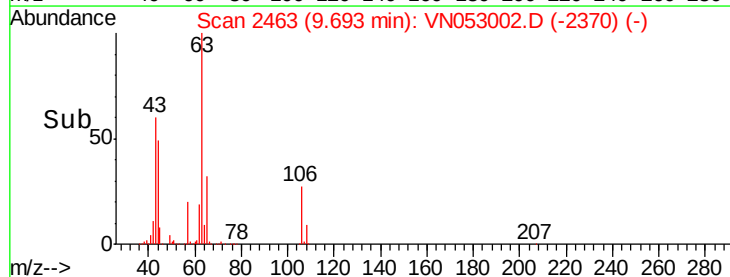
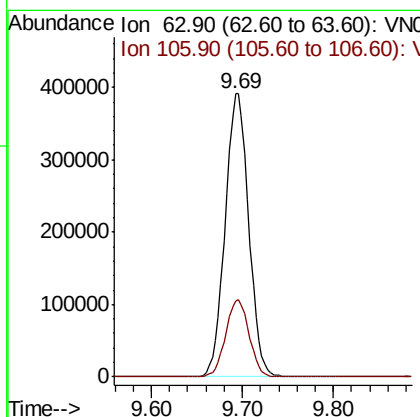
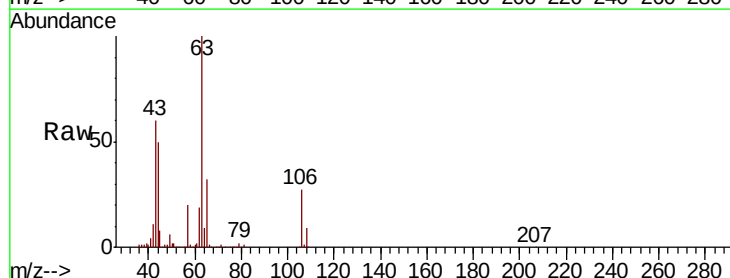
Manual Integrations
 APPROVED

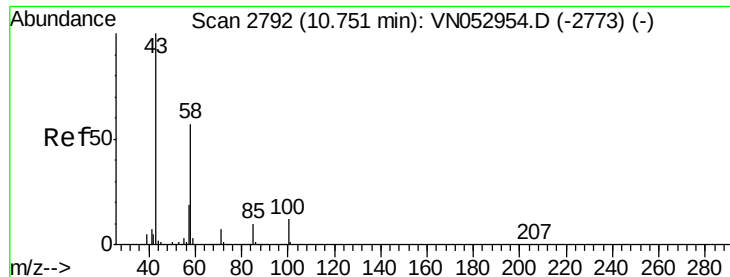
MMDadoda
 12/20/2018 9:34:23 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 96.995 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.1	21.0	31.6





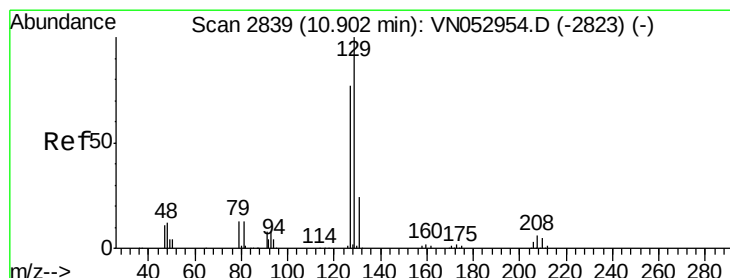
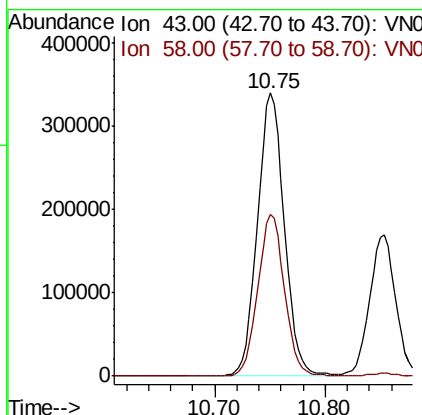
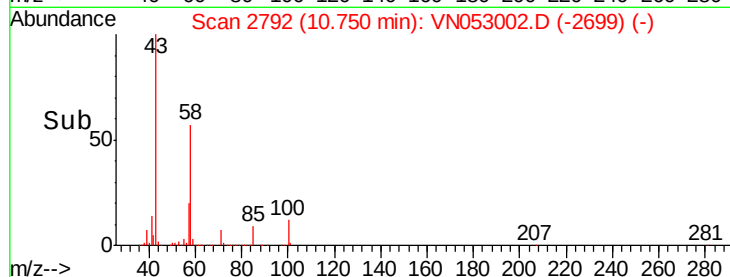
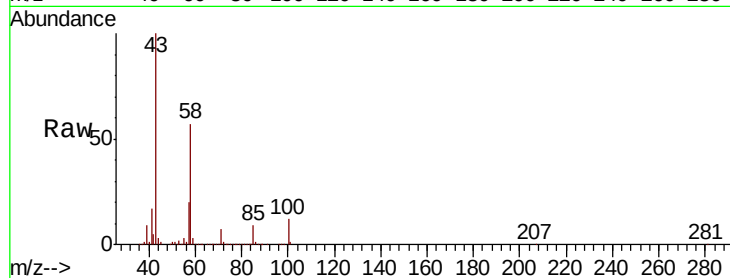
#59
2-Hexanone
Concen: 100.931 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion: 43 Resp: 573101
Ion Ratio Lower Upper
43 100
58 57.0 28.1 84.3

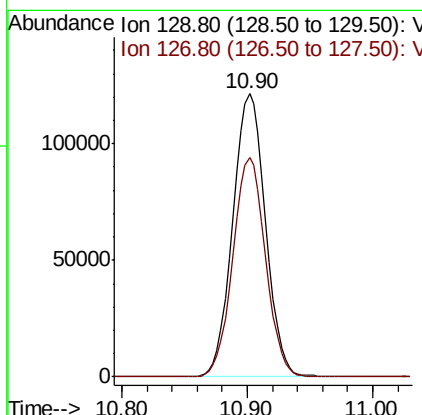
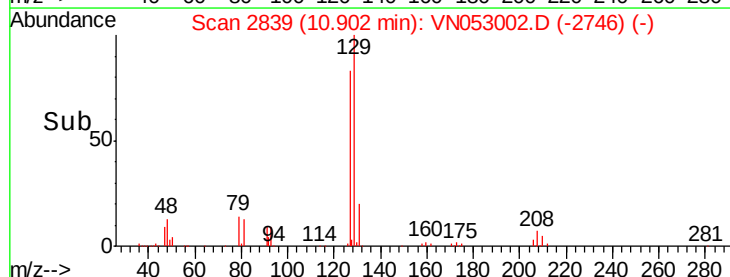
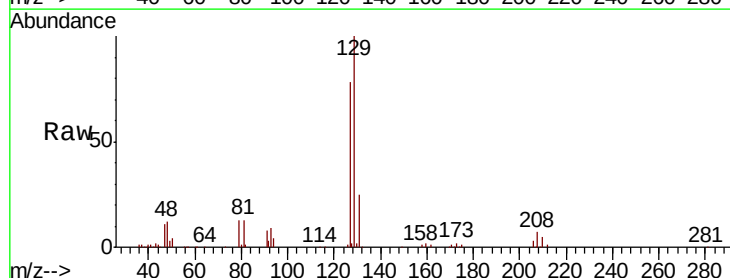
Manual Integrations
APPROVED

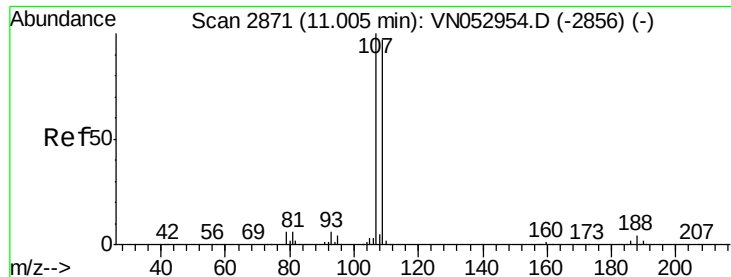
MMDadoda
12/20/2018 9:34:23 AM



#60
Dibromochloromethane
Concen: 19.252 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion: 129 Resp: 220040
Ion Ratio Lower Upper
129 100
127 77.2 38.6 116.0





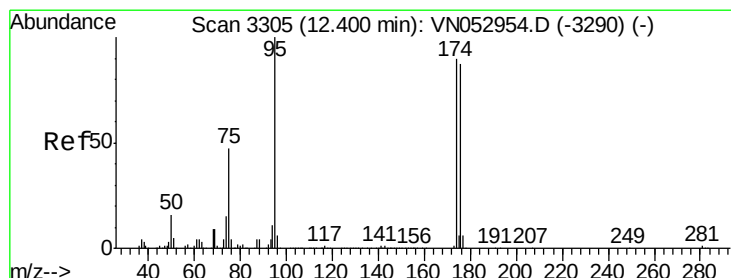
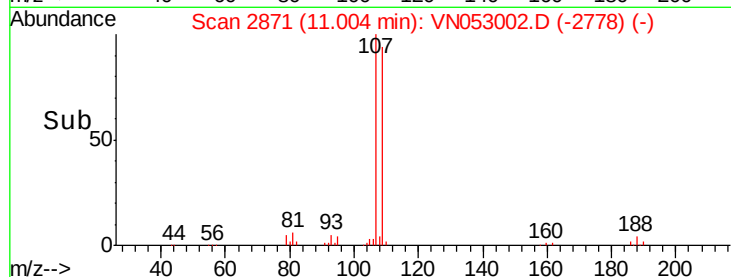
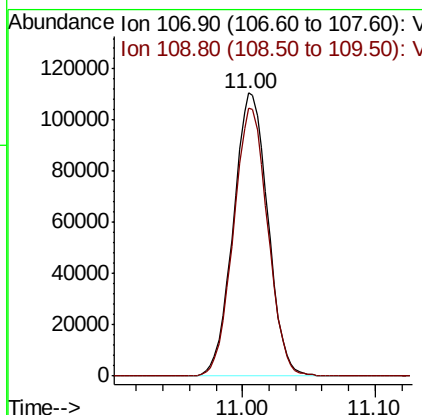
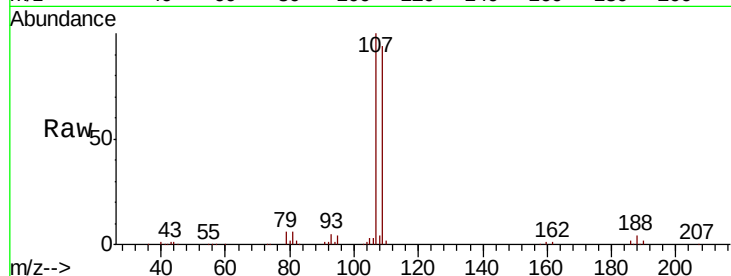
#61
 1,2-Dibromoethane
 Concen: 19.710 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.4	113.0

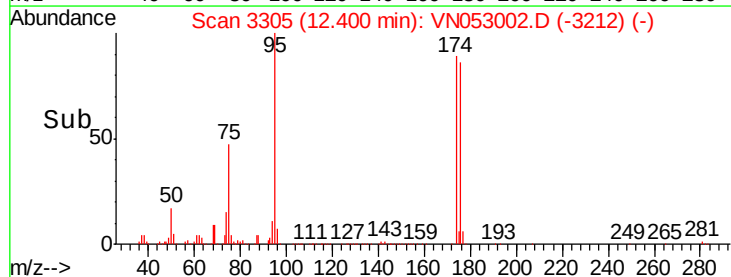
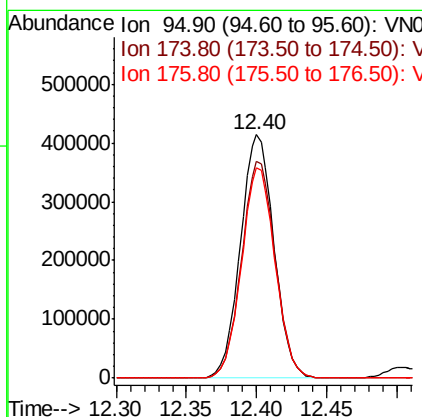
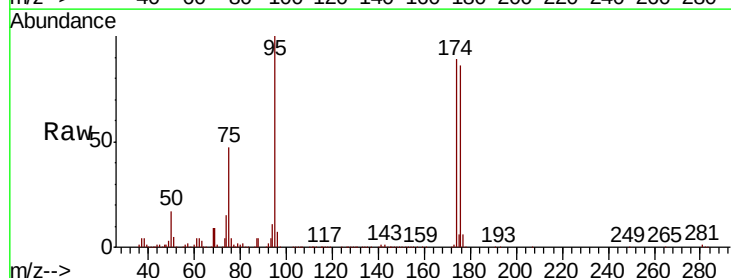
Manual Integrations
 APPROVED

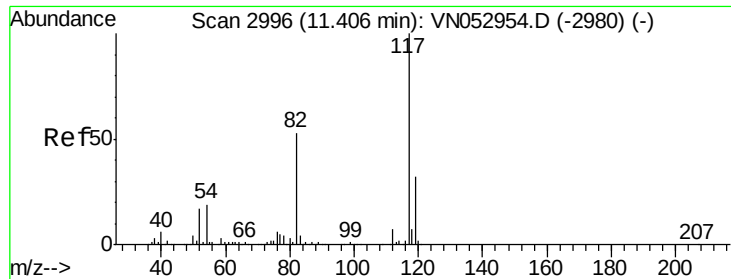
MMDadoda
 12/20/2018 9:34:23 AM



#62
 4-Bromofluorobenzene
 Concen: 19.710 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.6	0.0	178.8
176	86.8	0.0	173.8





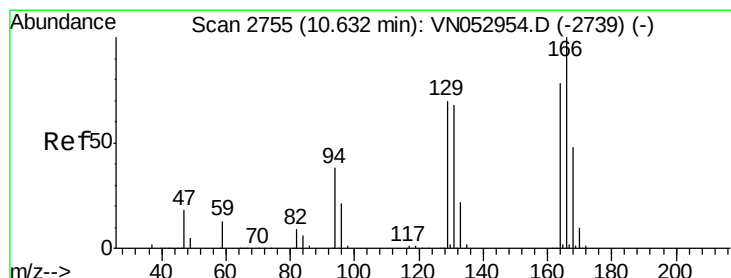
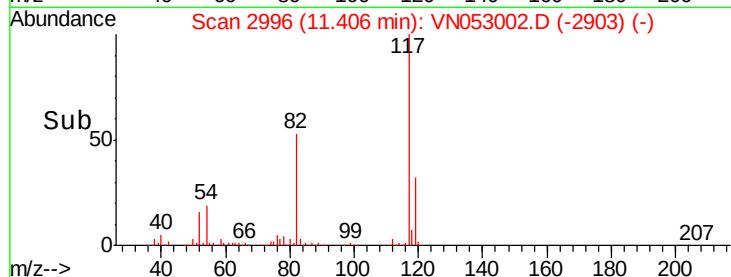
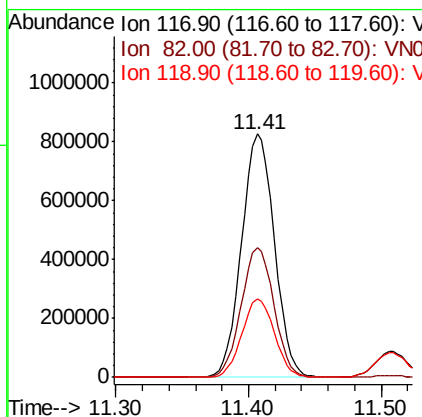
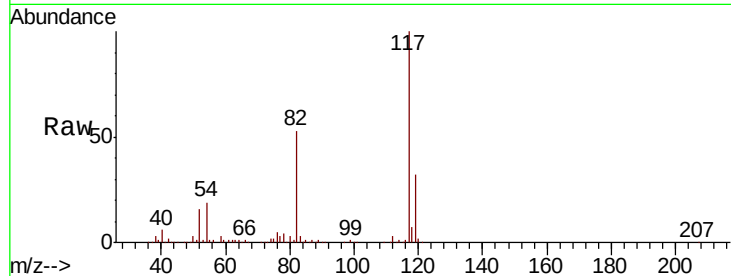
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	42.8	64.2
119	32.1	25.5	38.3

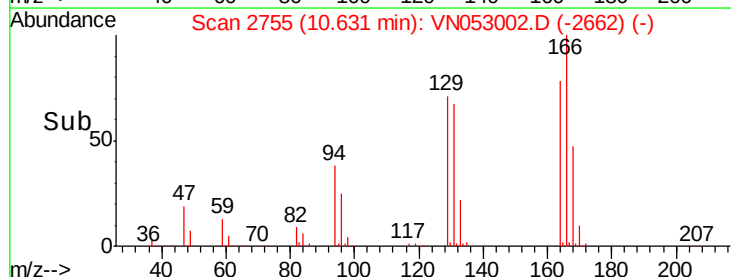
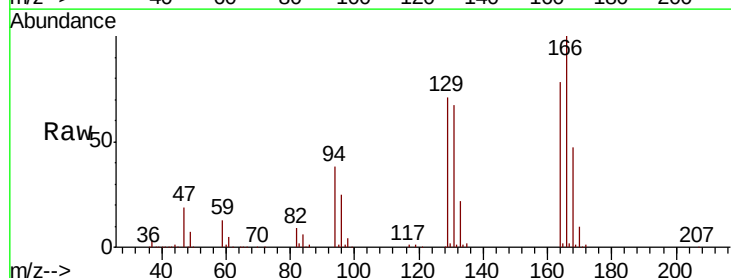
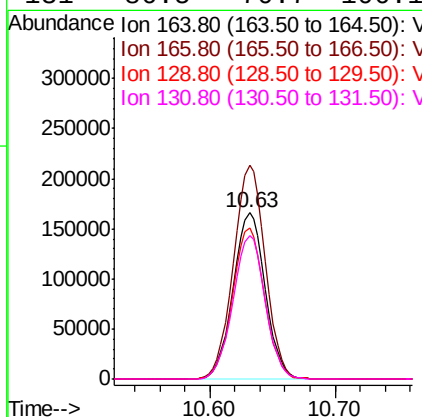
Manual Integrations
APPROVED

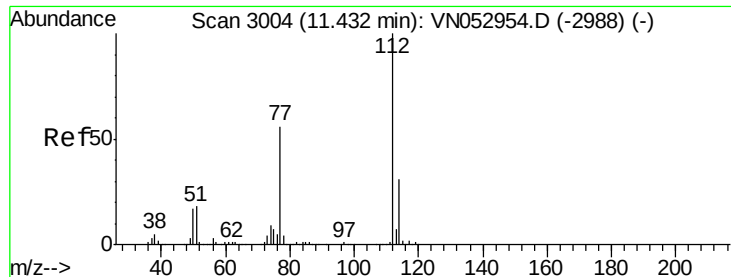
MMDadoda
12/20/2018 9:34:23 AM



#64
Tetrachloroethene
Concen: 19.106 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.6	102.9	154.3
129	90.7	73.7	110.5
131	86.5	70.7	106.1





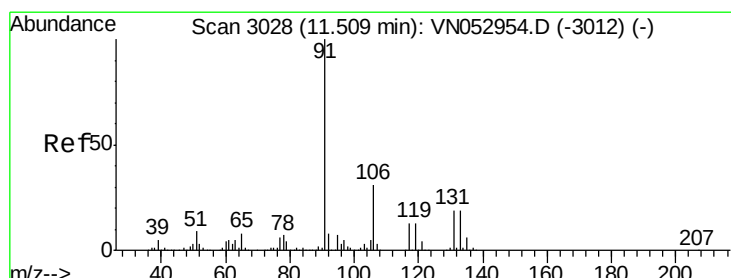
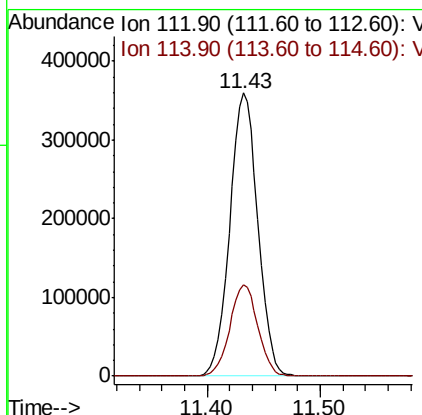
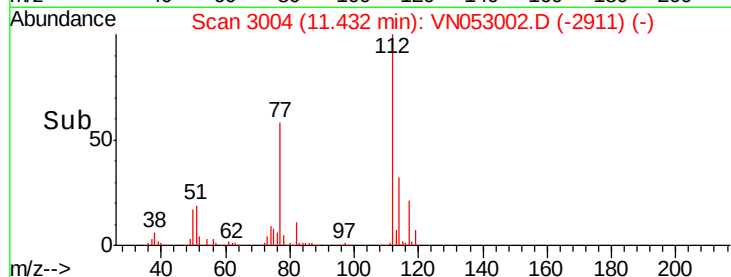
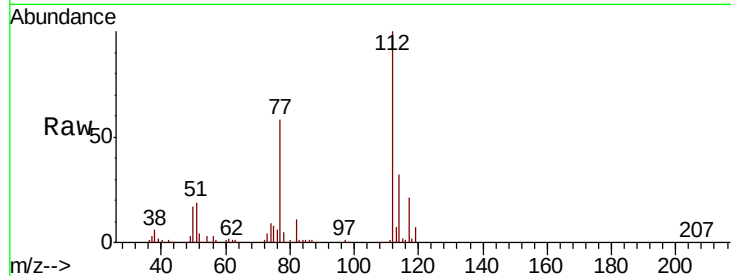
#65
Chlorobenzene
Concen: 19.614 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	618221		
114	32.1	25.5	38.3	

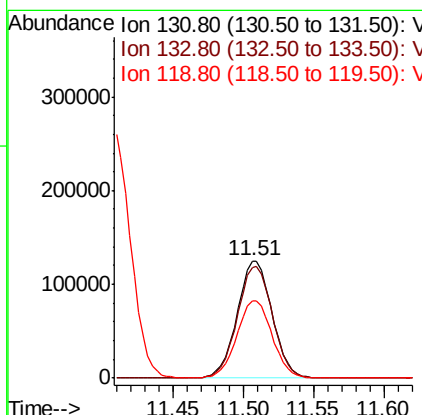
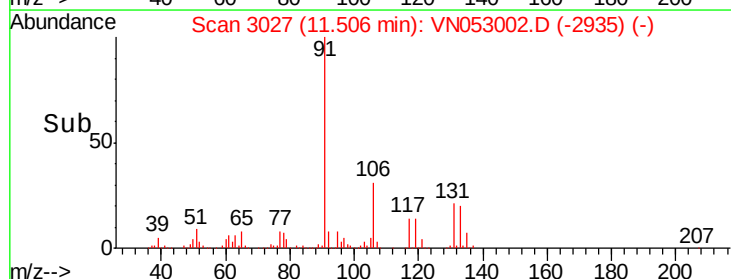
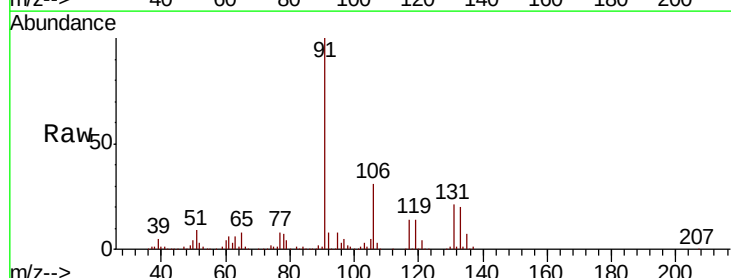
Manual Integrations
APPROVED

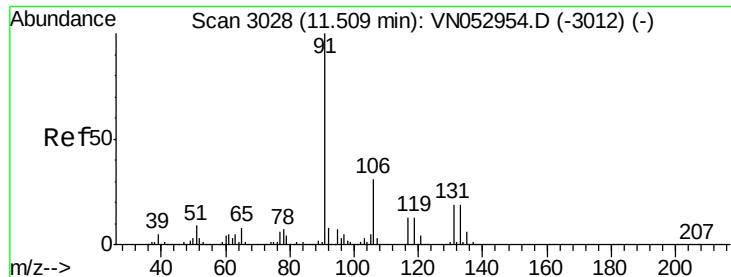
MMDadoda
12/20/2018 9:34:23 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.719 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	216138		
133	96.3	47.6	142.9	
119	67.1	33.3	99.8	





#67

Ethyl Benzene

Concen: 19.765 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

Tot Ion: 91 Resp: 1071363

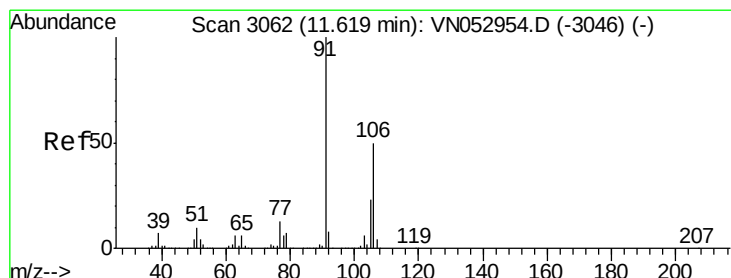
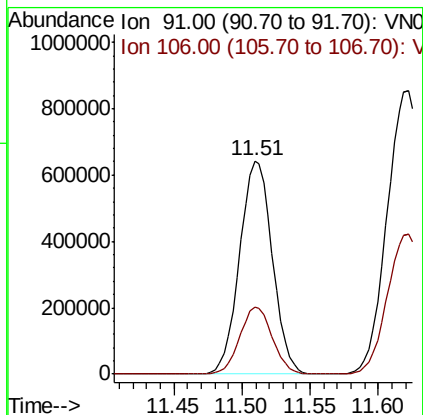
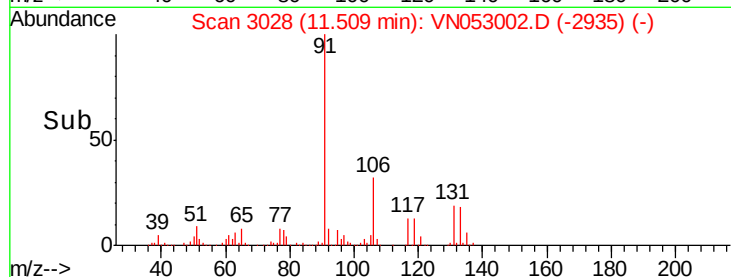
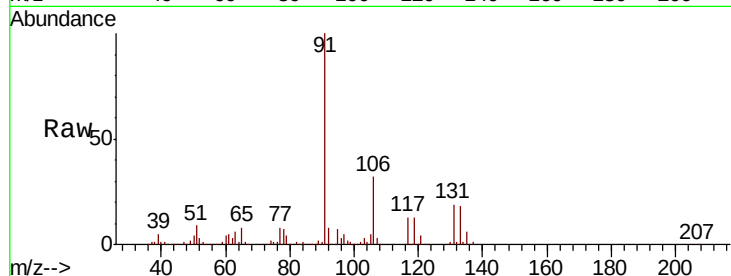
Ion Ratio Lower Upper

91 100

106 31.5 24.9 37.3

Manual Integrations
APPROVED

MMDadoda
12/20/2018 9:34:23 AM



#68

m/p-Xylenes

Concen: 39.458 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN053002.D

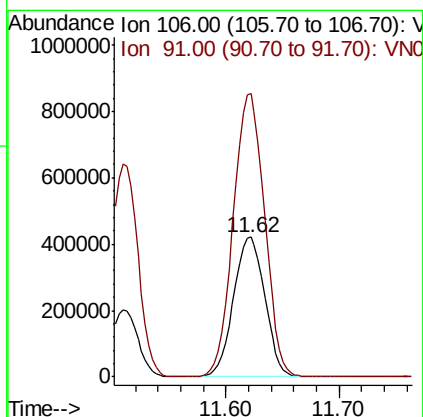
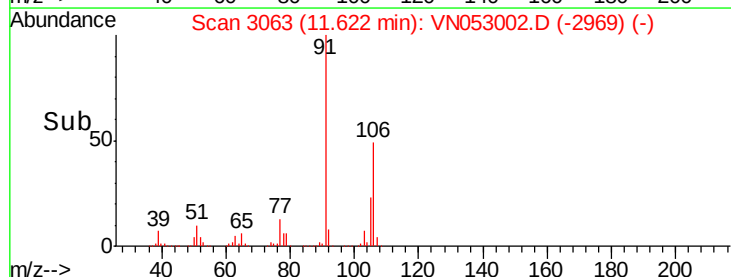
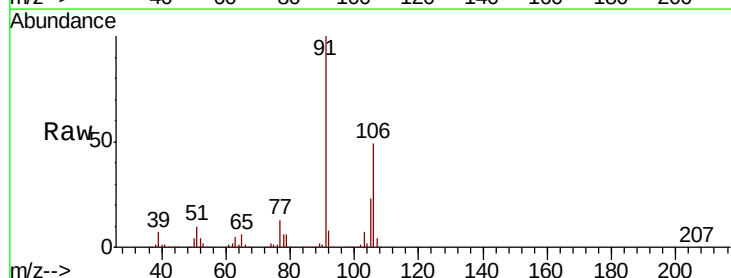
Acq: 19 Dec 2018 11:16

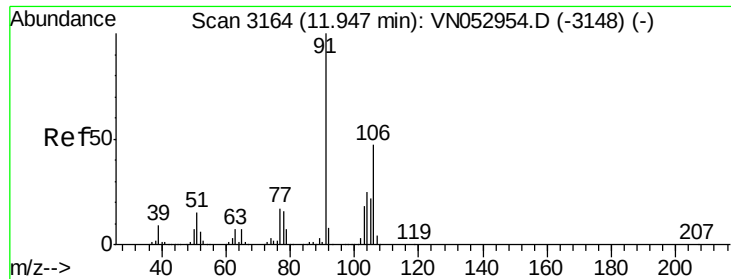
Tgt Ion: 106 Resp: 813091

Ion Ratio Lower Upper

106 100

91 202.0 162.2 243.4





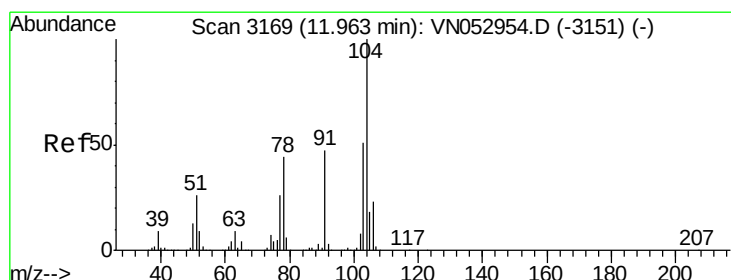
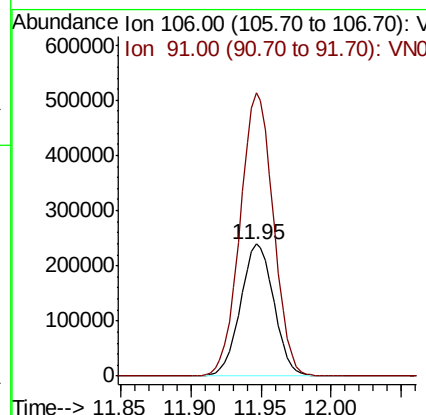
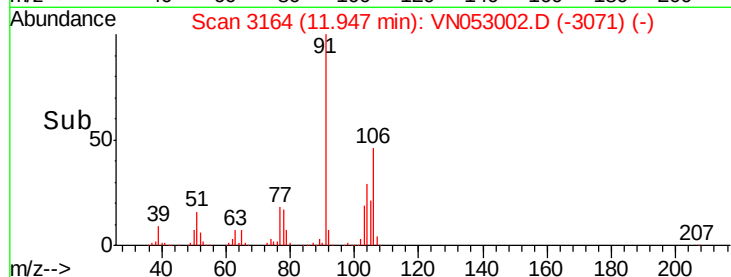
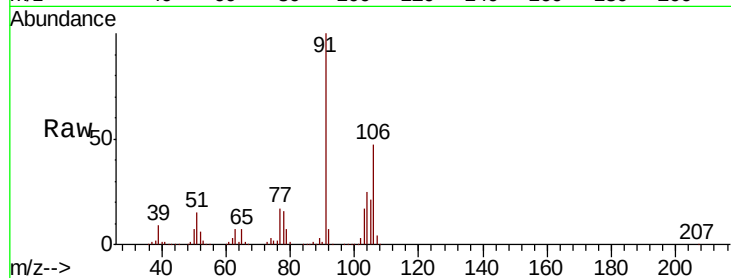
#69
o-Xylene
Concen: 20.096 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	397363		
91	91	213.7	106.6	319.8	

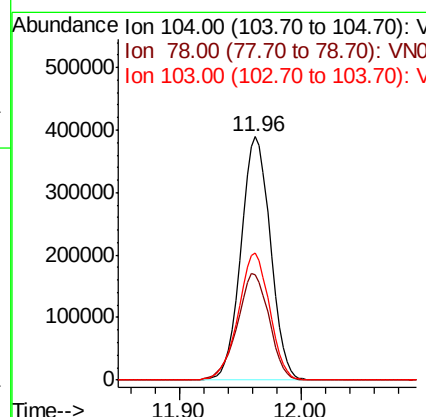
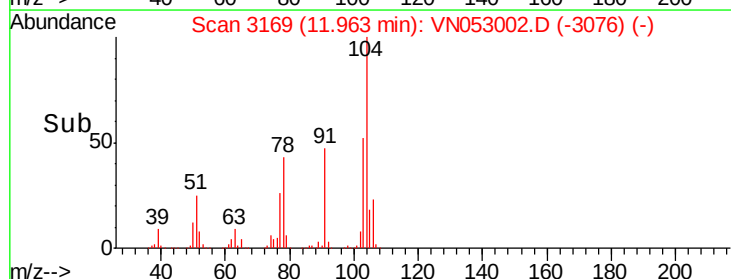
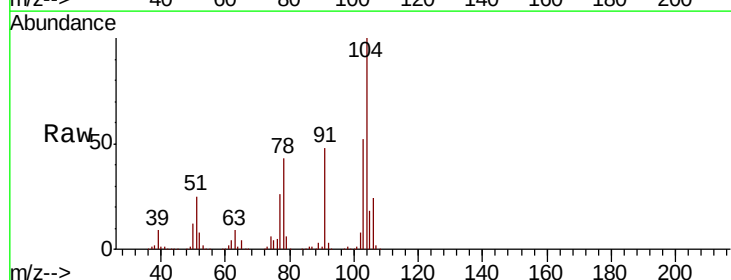
Manual Integrations
APPROVED

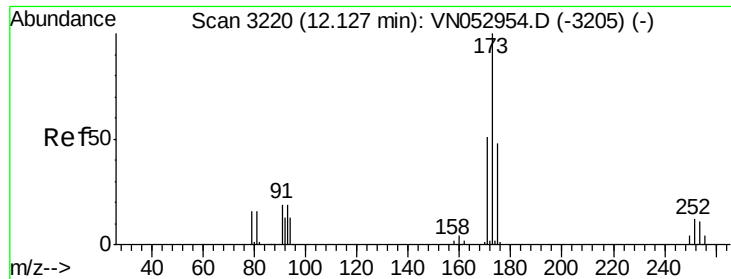
MMDadoda
12/20/2018 9:34:23 AM



#70
Styrene
Concen: 20.127 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	648957		
78	78	47.7	38.9	58.3	
103	103	55.7	44.3	66.5	





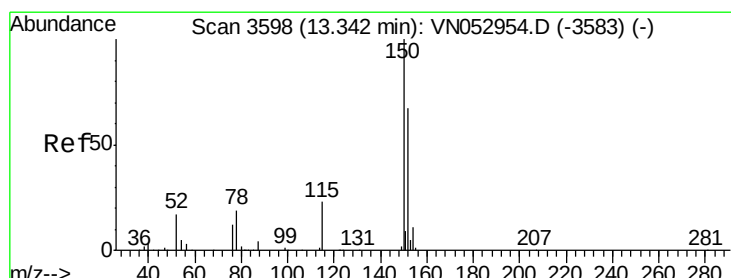
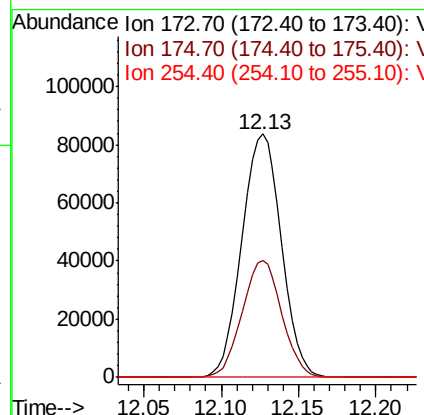
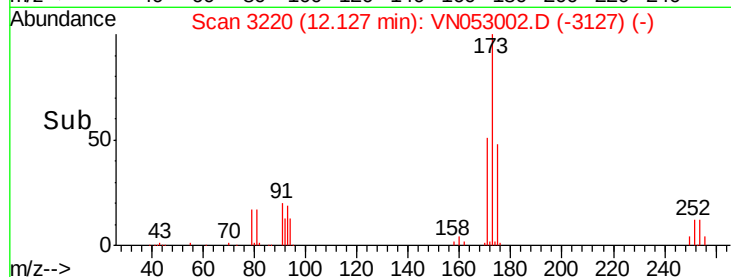
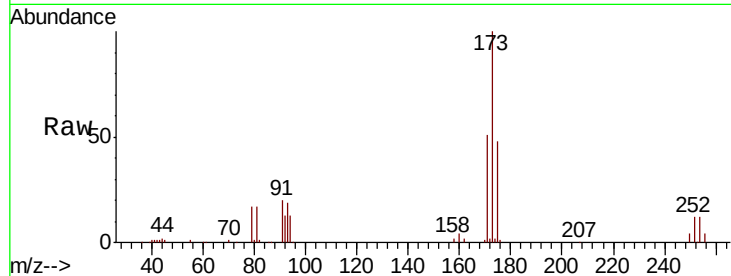
#71
Bromoform
Concen: 18.795 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.3	72.9
254	0.0	0.1	0.1#

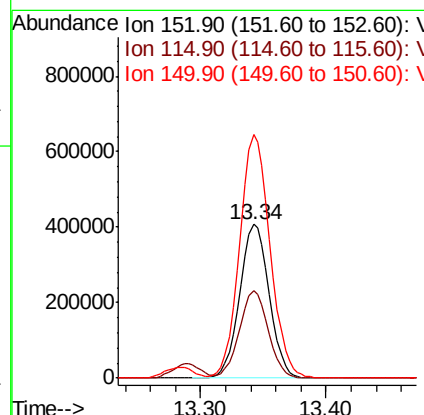
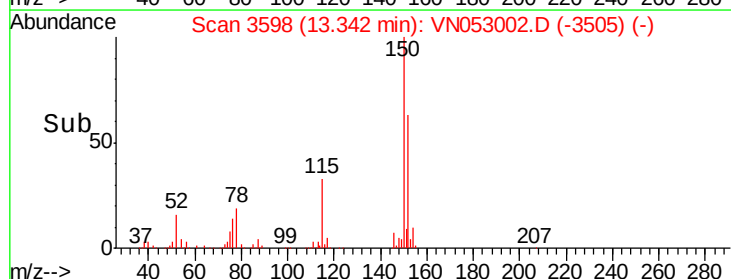
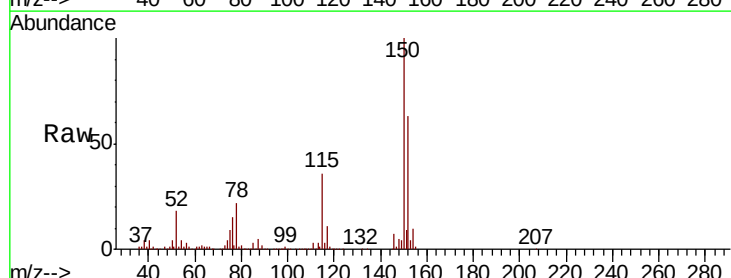
Manual Integrations
APPROVED

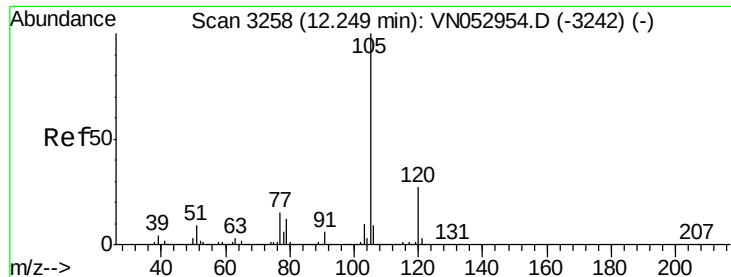
MMDadoda
12/20/2018 9:34:23 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.9	28.3	85.0
150	164.2	0.0	347.8





#73

Isopropylbenzene

Concen: 20.231 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

Tot Ion:105 Resp: 1048000

Ion Ratio Lower Upper

105 100

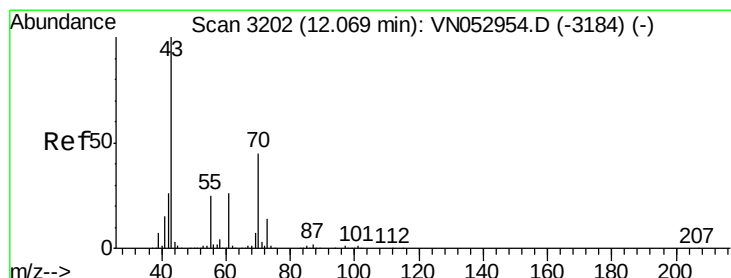
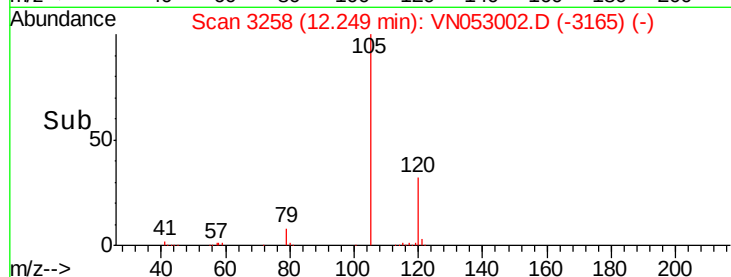
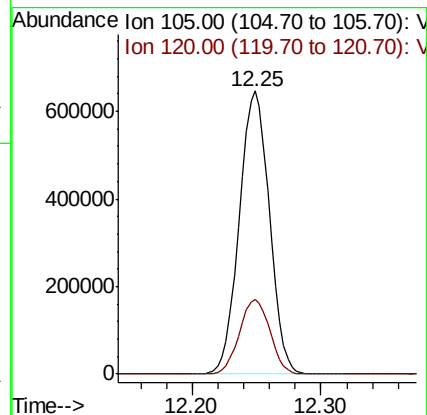
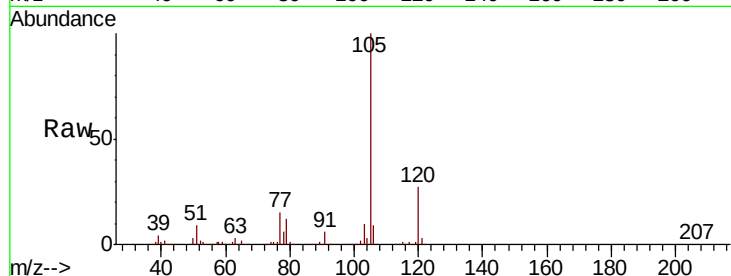
120 26.7 13.3 39.9

Manual Integrations

APPROVED

MMDadoda

12/20/2018 9:34:23 AM



#74

N-ethyl acetate

Concen: 20.684 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Tgt Ion: 43 Resp: 297471

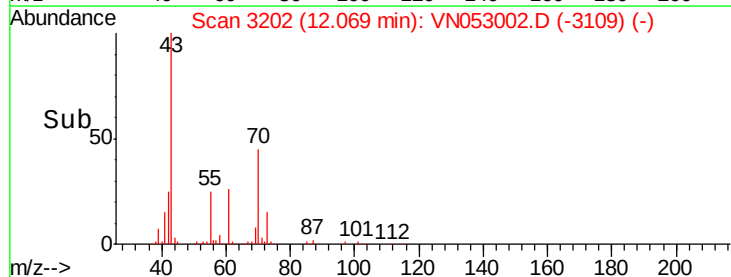
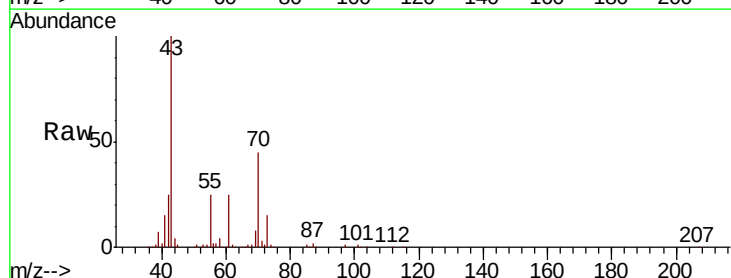
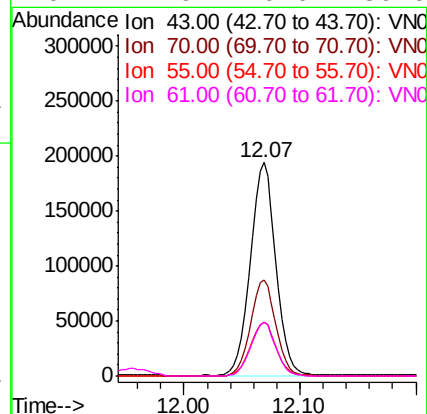
Ion Ratio Lower Upper

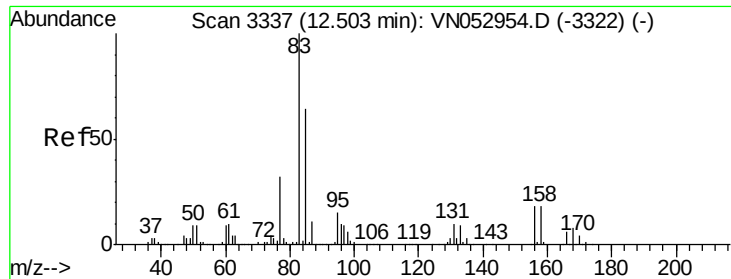
43 100

70 44.7 34.2 51.4

55 25.4 20.3 30.5

61 24.9 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.075 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

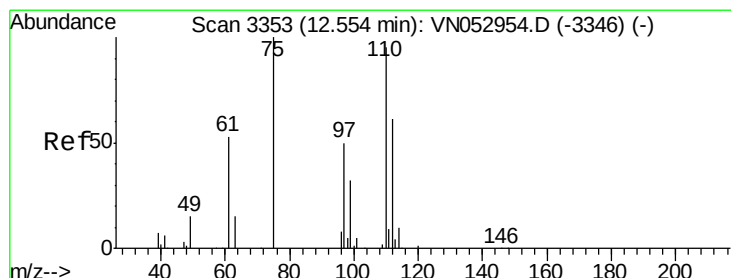
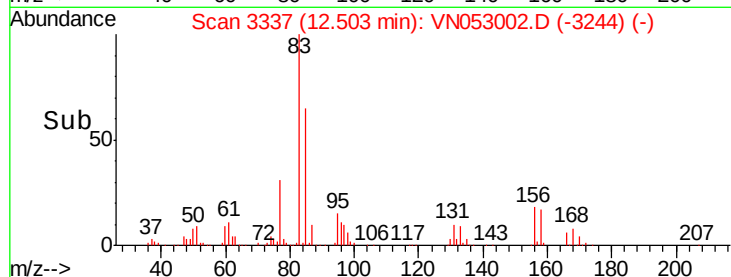
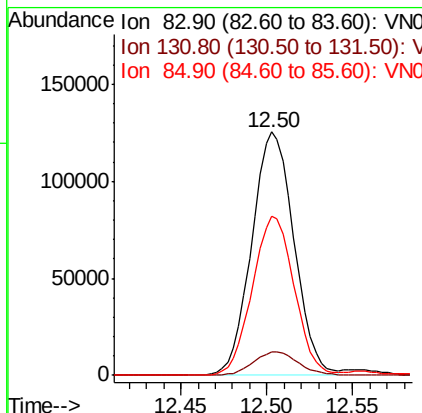
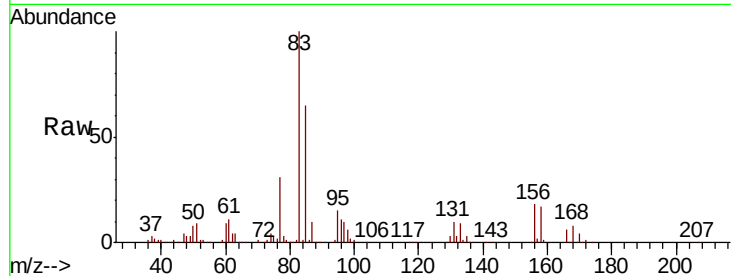
ClientSampleId :

VN1219WBS01

Tot Ion:	83	Resp:	214178
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.2	15.6
85	64.5	32.4	97.0

Manual Integrations
APPROVED

MMDadoda
12/20/2018 9:34:23 AM



#76

1,2,3-Trichloropropane

Concen: 17.313 ug/l m

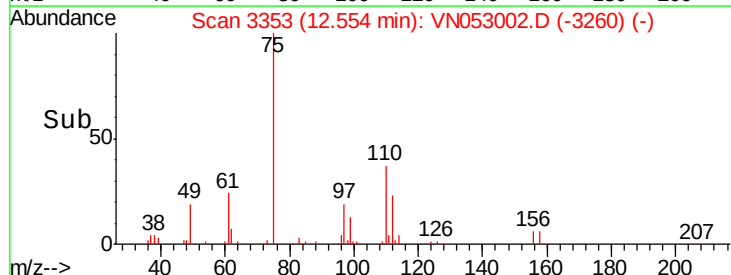
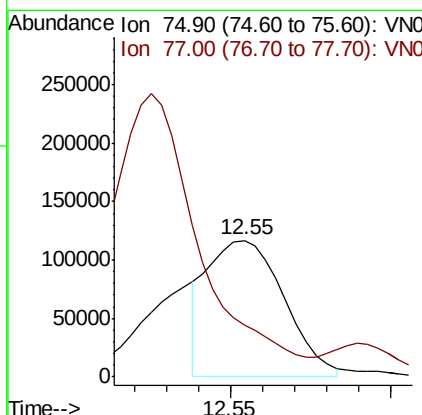
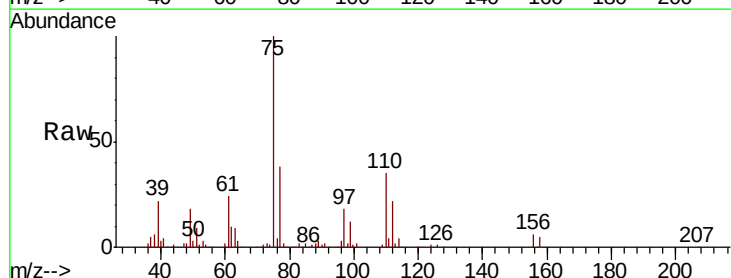
RT: 12.55 min Scan# 3353

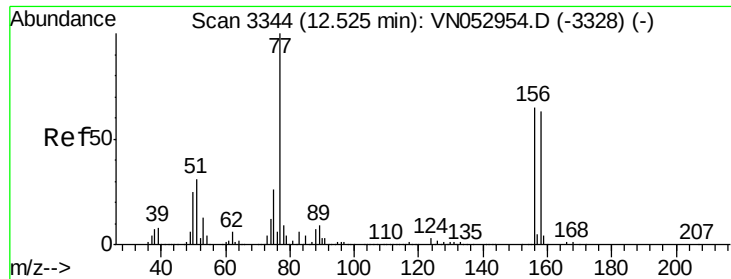
Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Tgt Ion:	75	Resp:	192950
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.027 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

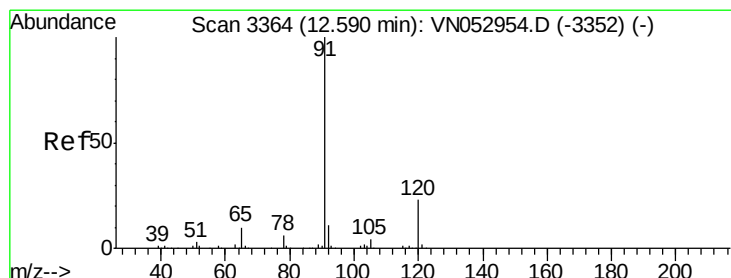
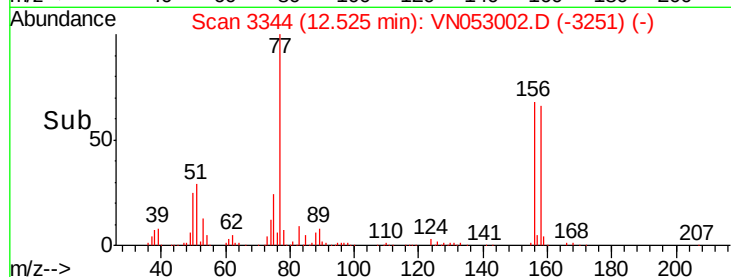
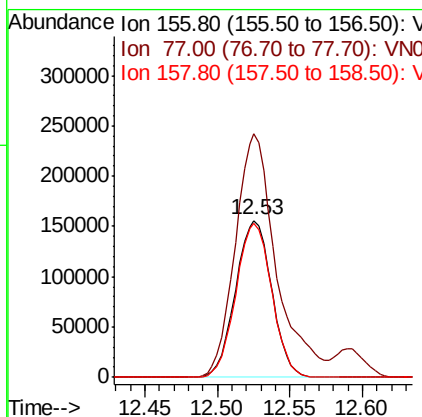
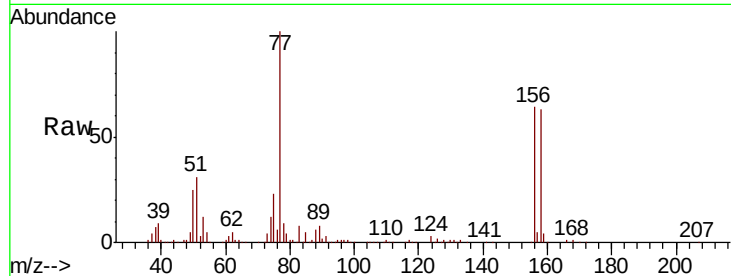
ClientSampleId :

VN1219WBS01

Tot Ion:	156	Resp:	269660
Ion Ratio	Lower	Upper	
156	100		
77	175.8	91.3	273.8
158	97.3	49.0	147.2

Manual Integrations
APPROVED

MMDadoda
12/20/2018 9:34:23 AM



#78

n-propylbenzene

Concen: 19.884 ug/l

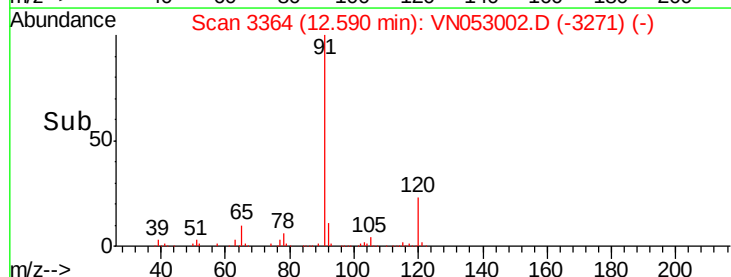
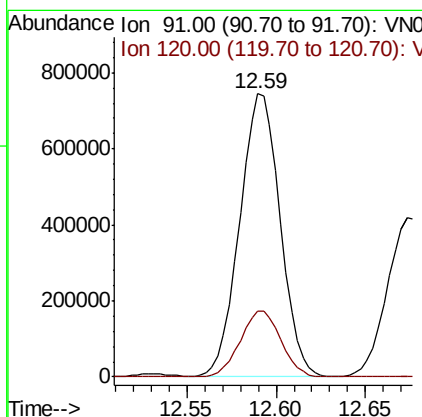
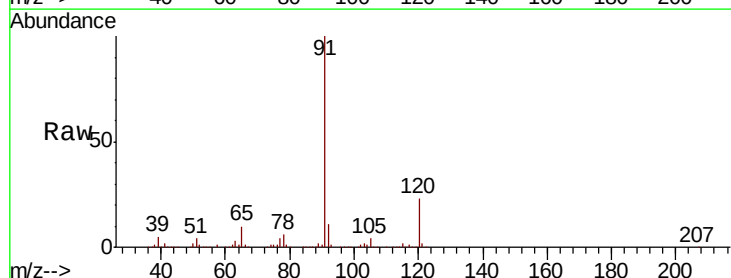
RT: 12.59 min Scan# 3364

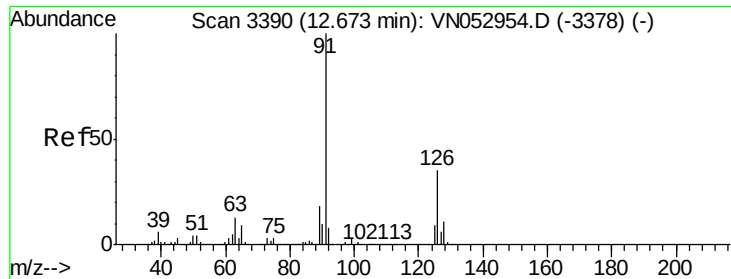
Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Tgt Ion:	91	Resp:	1173085
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.5	34.5





#79

2-Chlorotoluene

Concen: 19.228 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

Tot Ion: 91 Resp: 703139

Ion Ratio Lower Upper

91 100

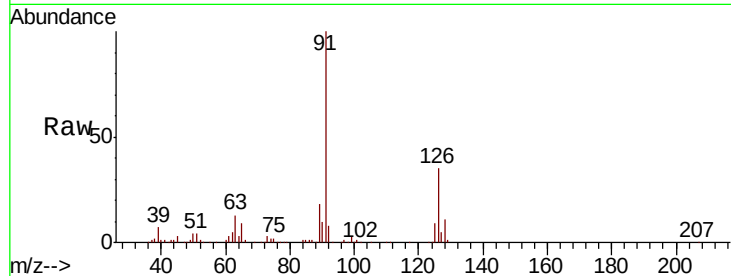
126 35.0 17.4 52.3

Manual Integrations

APPROVED

MMDadoda

12/20/2018 9:34:23 AM



Abundance Ion 91.00 (90.70 to 91.70): VN052954.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052954.D (-3378) (-)

600000

400000

200000

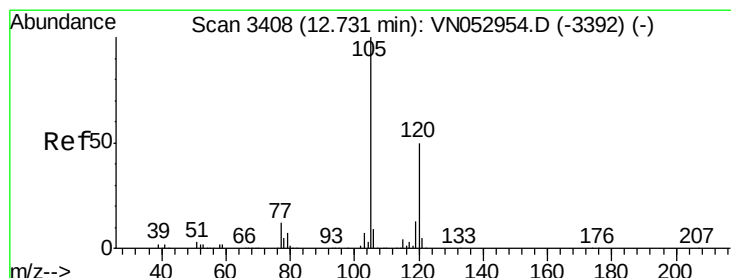
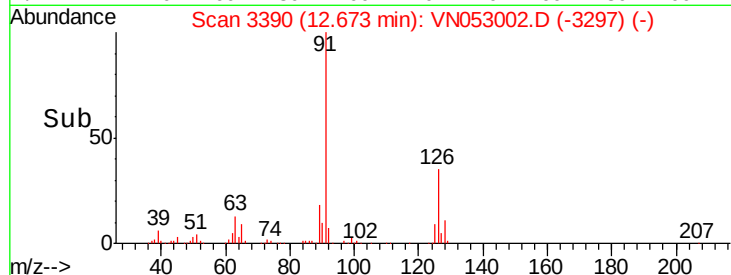
0

12.67

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 19.824 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN053002.D

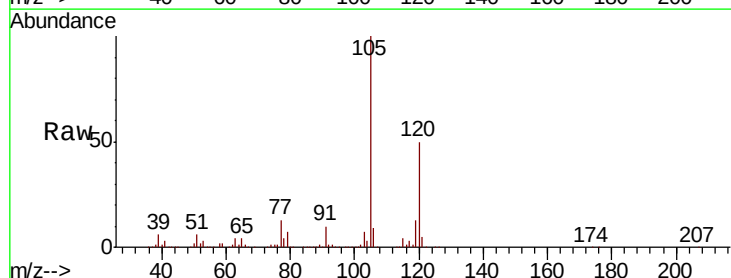
Acq: 19 Dec 2018 11:16

Tgt Ion:105 Resp: 837003

Ion Ratio Lower Upper

105 100

120 49.4 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052954.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN052954.D (-3392) (-)

600000

500000

400000

300000

200000

100000

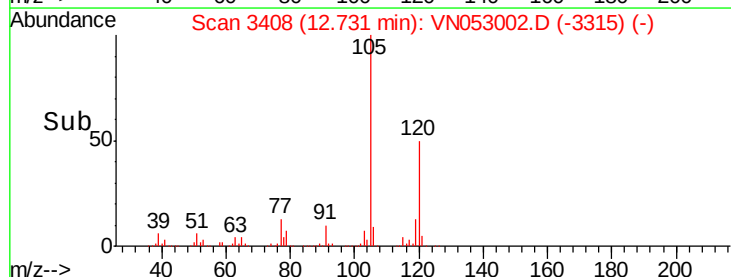
0

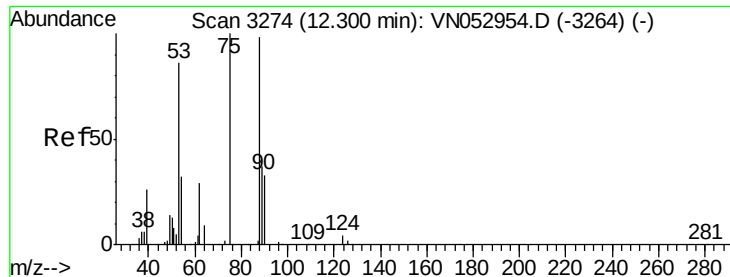
12.73

12.70

12.80

Time-->





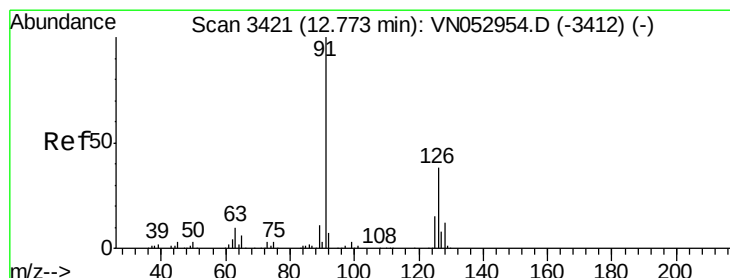
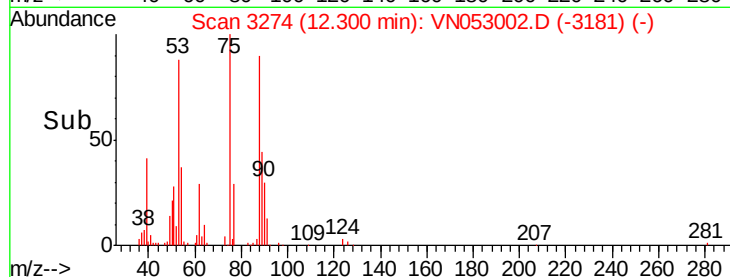
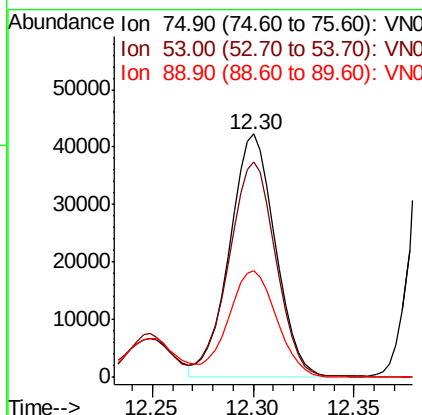
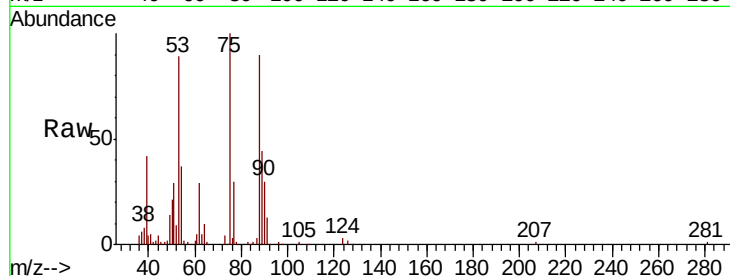
#81
trans-1,4-Dichloro-2-butene
Concen: 19.511 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	90.2	74.7	112.1
89	46.4	36.1	54.1

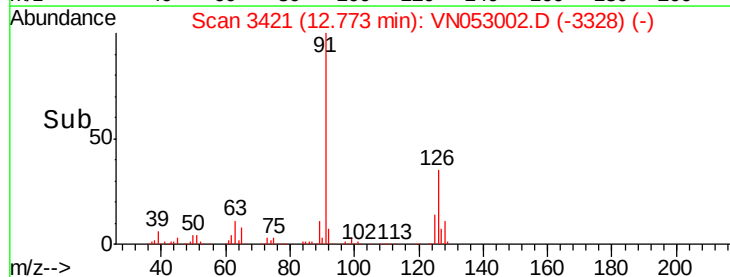
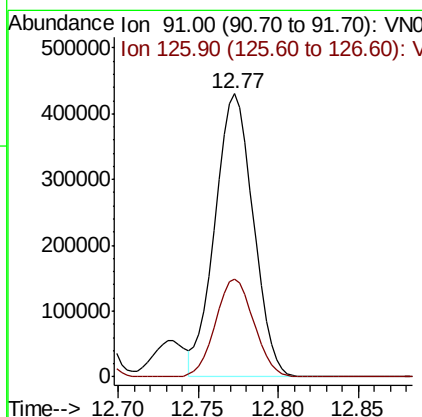
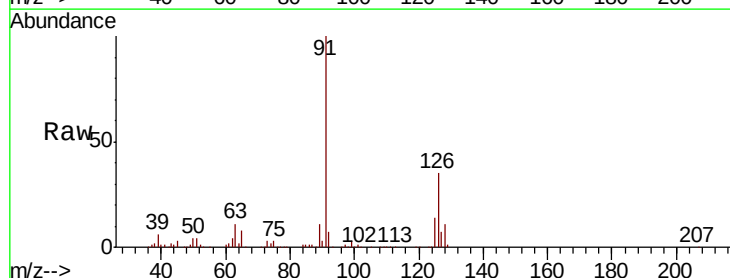
Manual Integrations
APPROVED

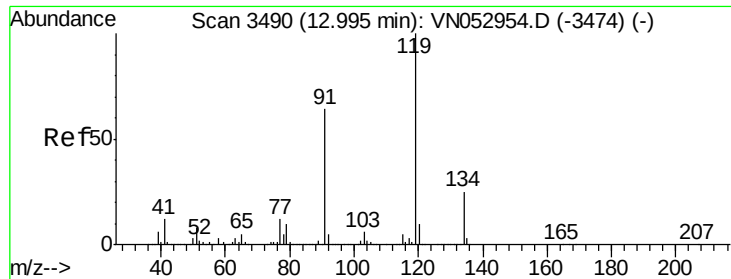
MMDadoda
12/20/2018 9:34:23 AM



#82
4-Chlorotoluene
Concen: 19.784 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.3	51.7





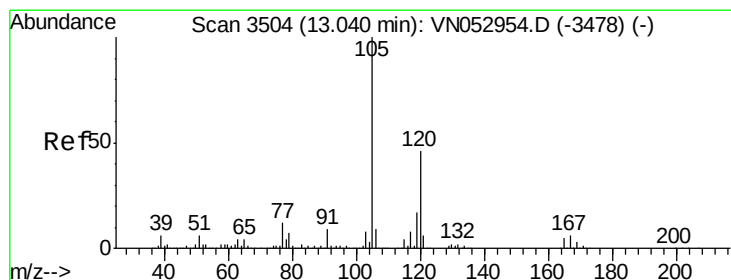
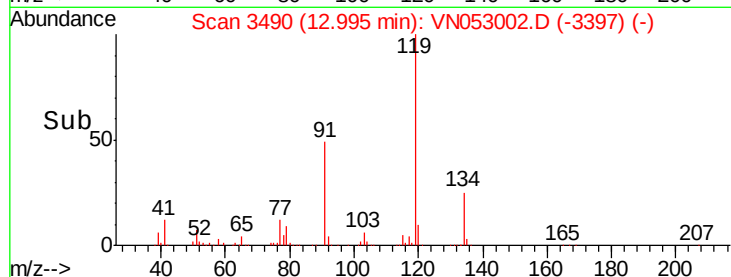
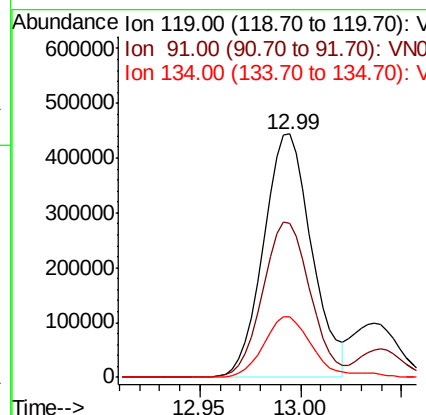
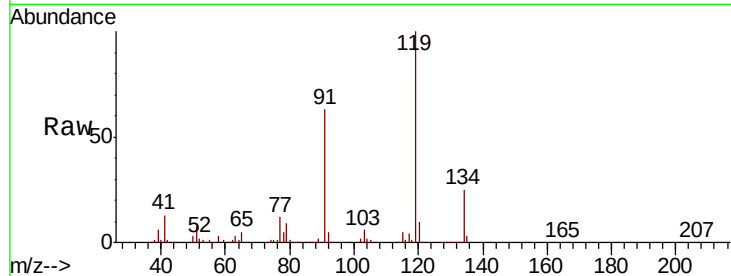
#83
 tert-Butylbenzene
 Concen: 19.764 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	738020		
91	62.9		31.9	95.5
134	25.8		12.8	38.4

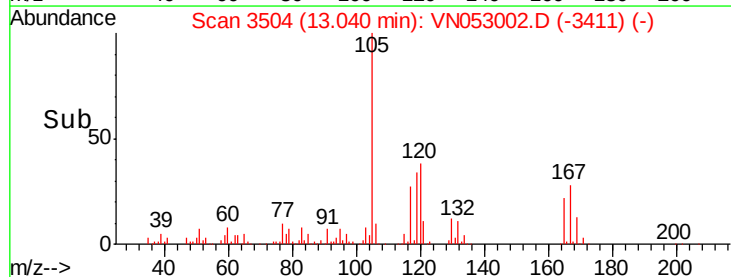
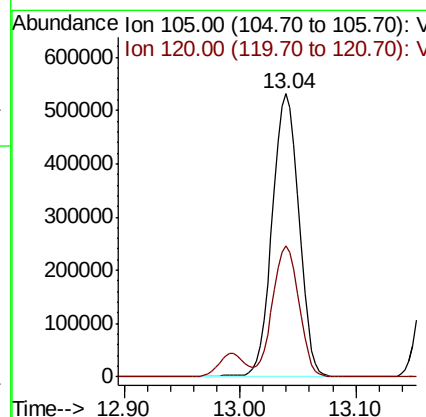
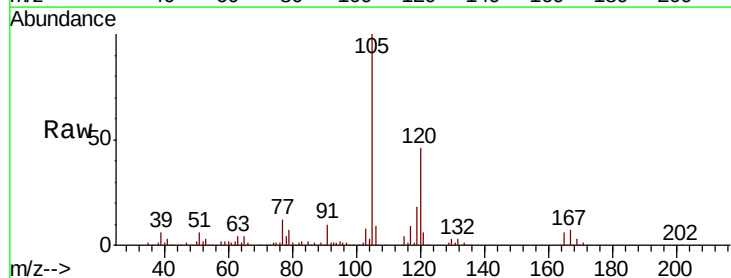
Manual Integrations
 APPROVED

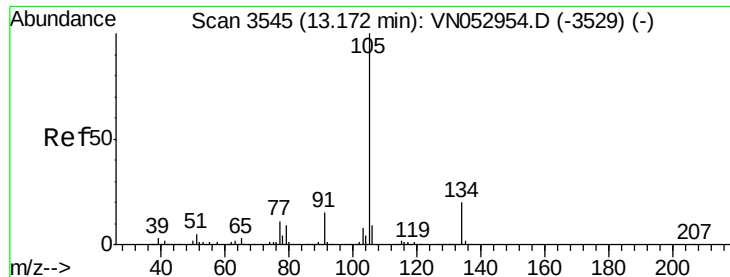
MMDadoda
 12/20/2018 9:34:23 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.994 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	848645		
120	45.8		22.9	68.8





#85

sec-Butylbenzene

Concen: 19.444 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBS01

Tot Ion:105 Resp: 982082

Ion Ratio Lower Upper

105 100

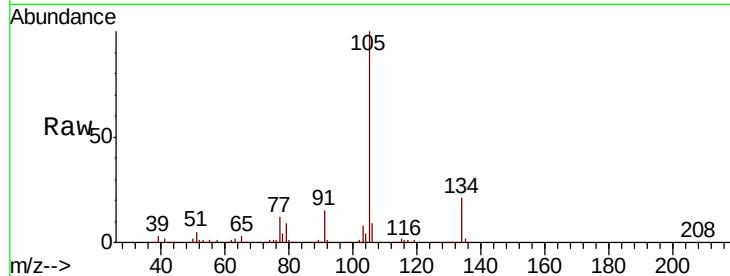
134 20.5 10.1 30.3

Manual Integrations

APPROVED

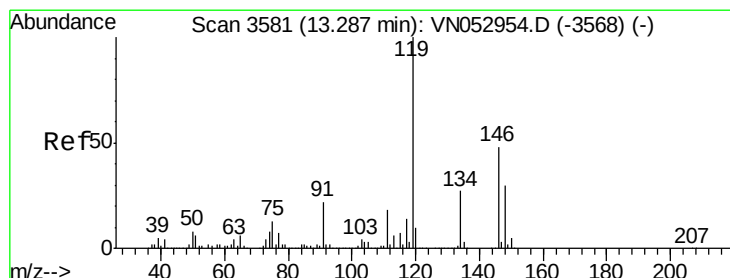
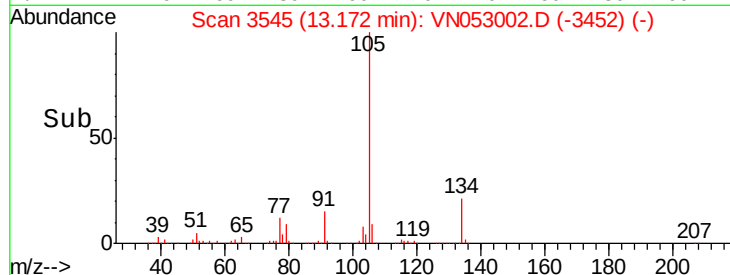
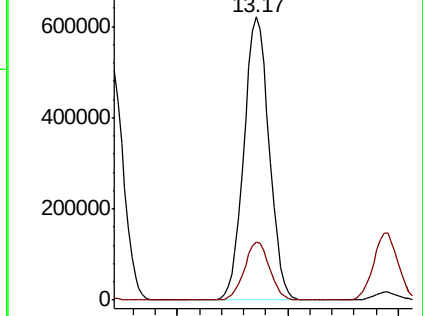
MMDadoda

12/20/2018 9:34:23 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.442 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

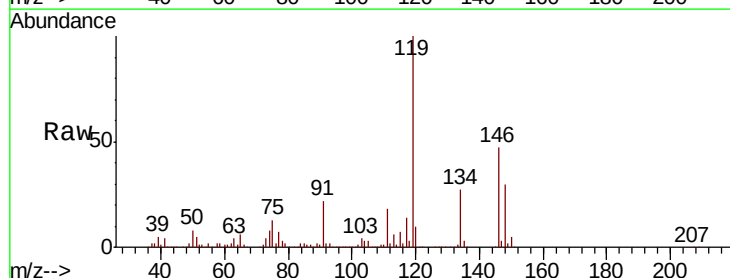
Tgt Ion:119 Resp: 848500

Ion Ratio Lower Upper

119 100

134 27.0 13.4 40.2

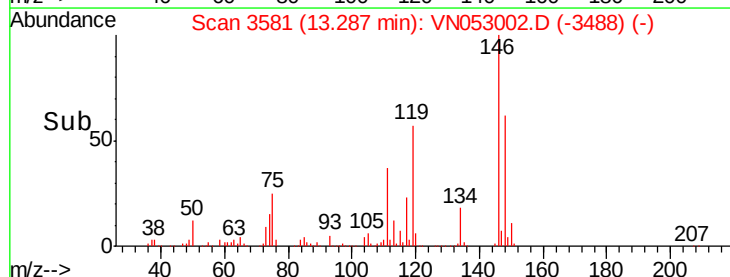
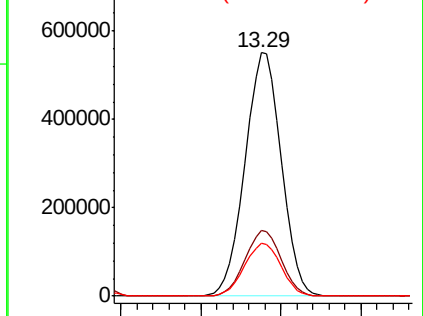
91 21.9 11.1 33.3

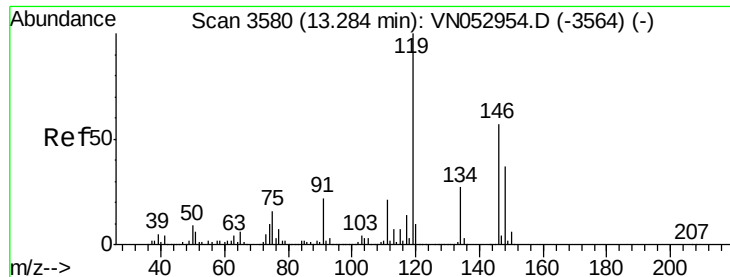


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





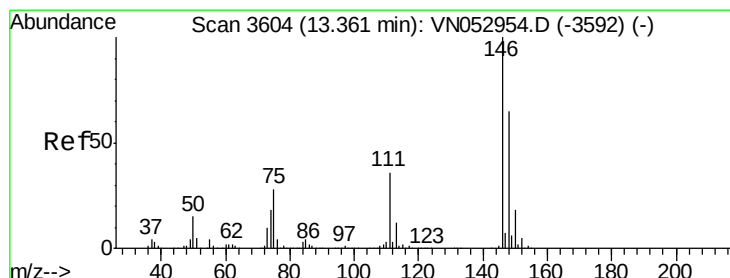
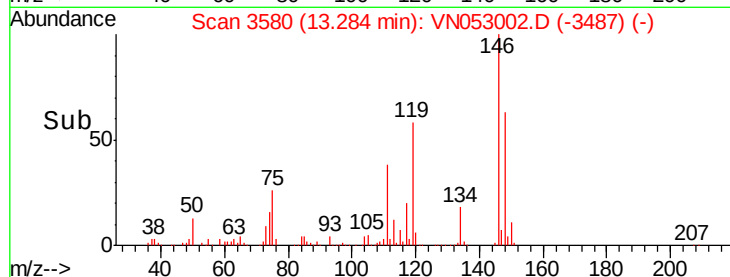
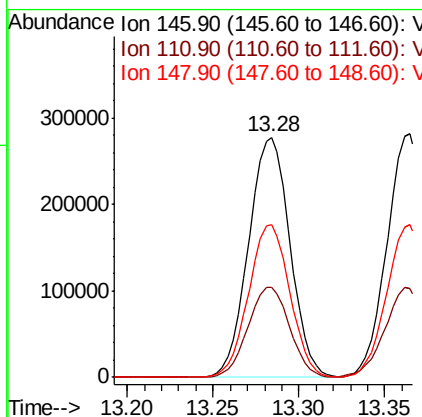
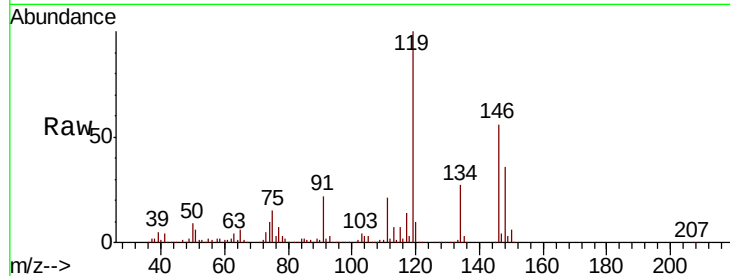
#87
1,3-Dichlorobenzene
Concen: 19.437 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.1	57.1
148	63.5	32.0	96.0

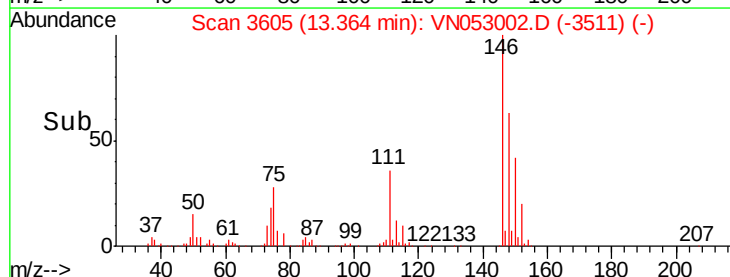
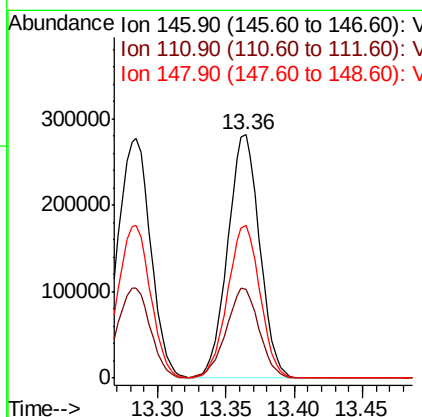
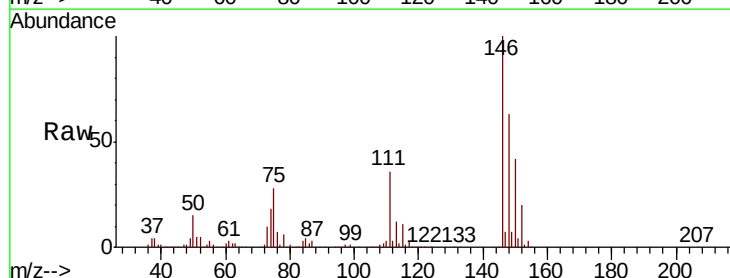
Manual Integrations
APPROVED

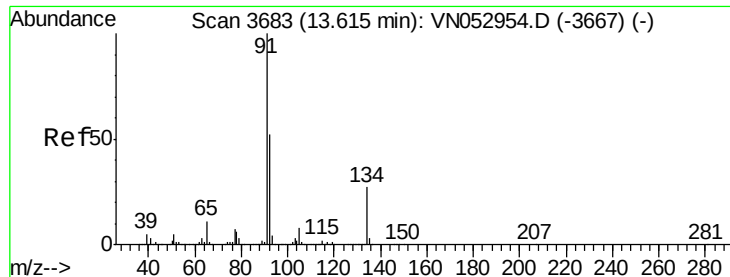
MMDadoda
12/20/2018 9:34:23 AM



#88
1,4-Dichlorobenzene
Concen: 18.972 ug/l
RT: 13.36 min Scan# 3605
Delta R.T. 0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	18.6	55.8
148	63.9	32.1	96.5





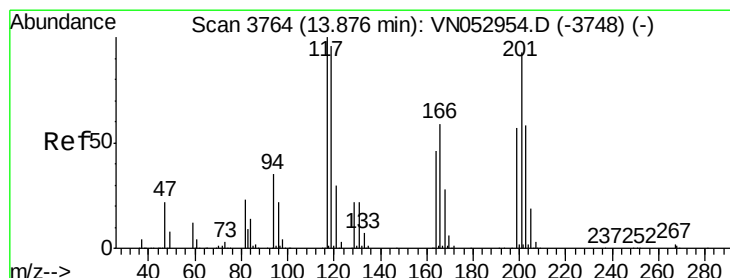
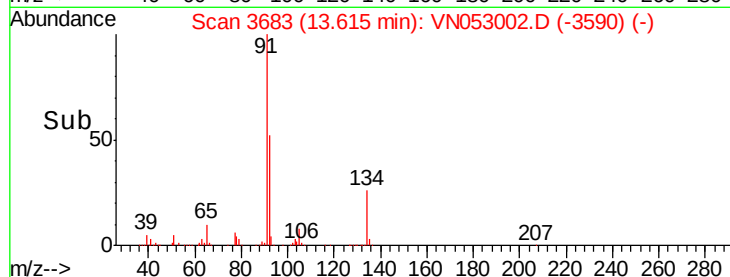
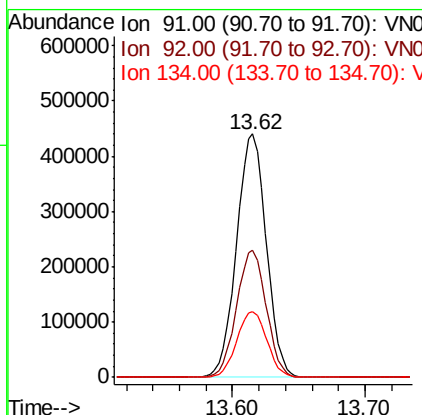
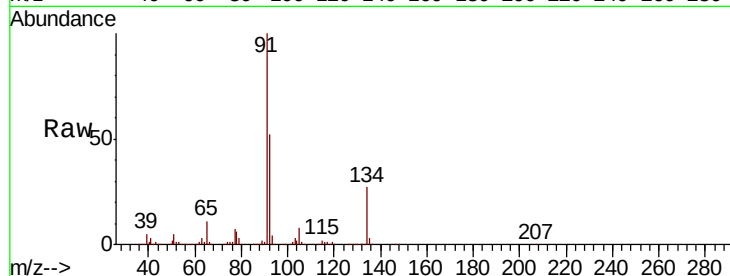
#89
n-Butylbenzene
Concen: 18.247 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.3	78.9
134	27.3	13.3	39.8

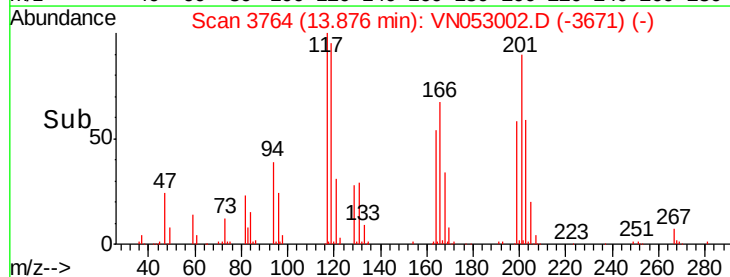
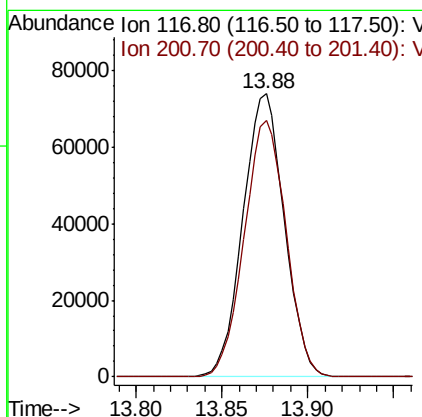
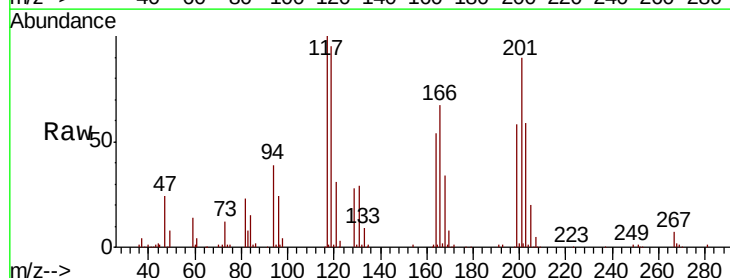
Manual Integrations
APPROVED

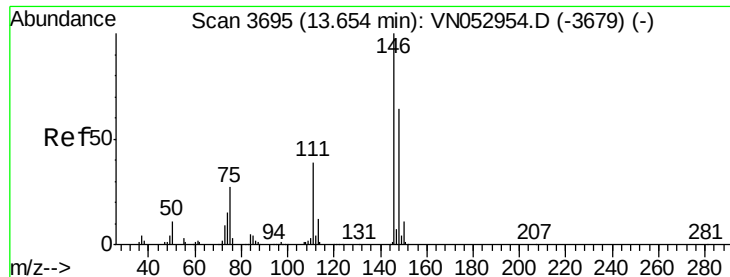
MMDadoda
12/20/2018 9:34:23 AM



#90
Hexachloroethane
Concen: 18.463 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN053002.D
Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.4	45.7	137.1





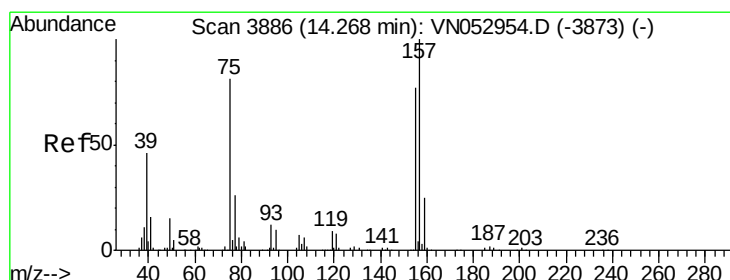
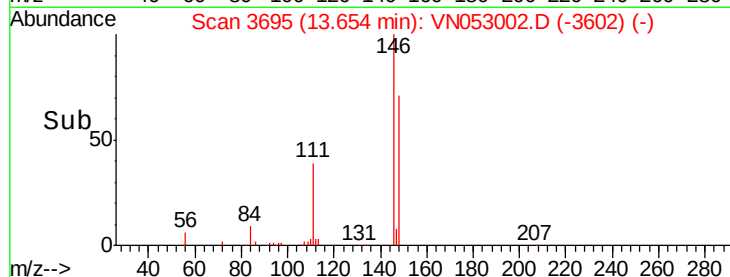
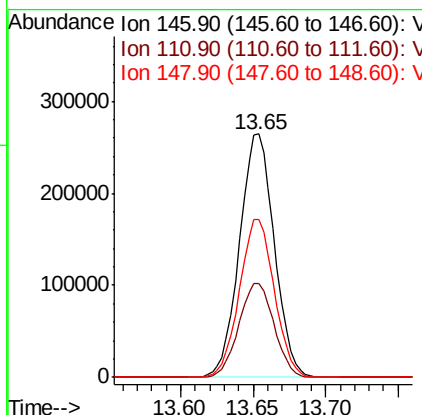
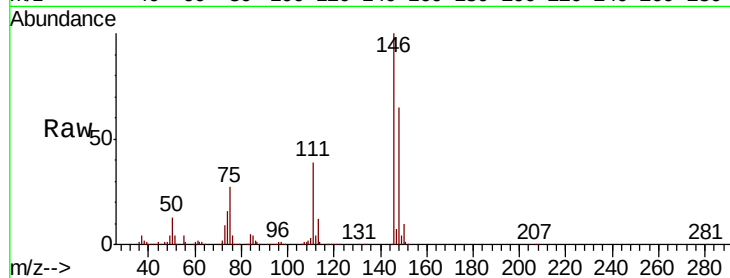
#91
 1,2-Dichlorobenzene
 Concen: 19.642 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.7	59.0
148	65.0	32.0	96.0

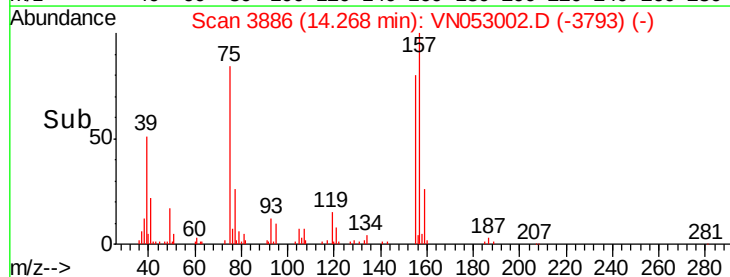
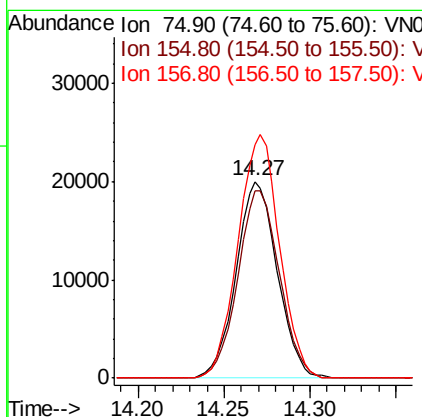
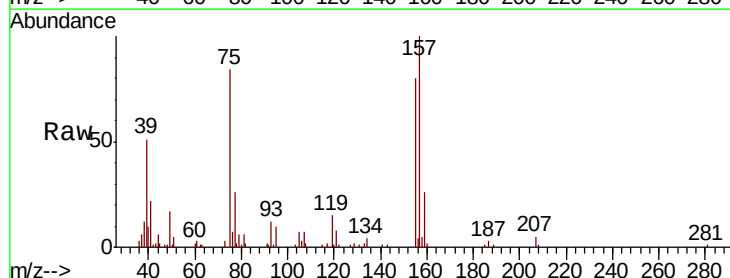
Manual Integrations
 APPROVED

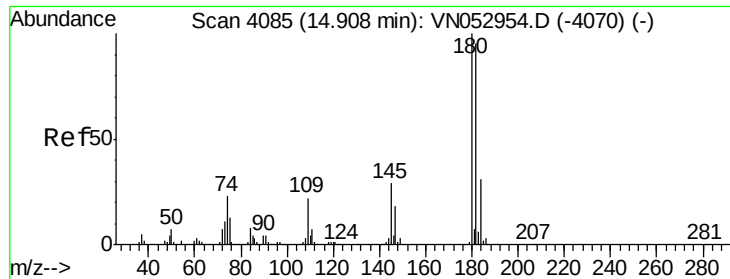
MMDadoda
 12/20/2018 9:34:23 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.951 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.4	48.2	144.6
157	124.8	61.2	183.5





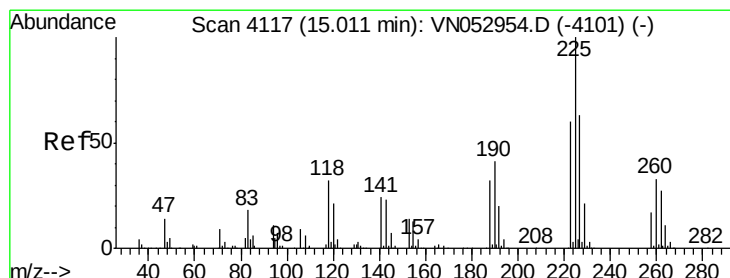
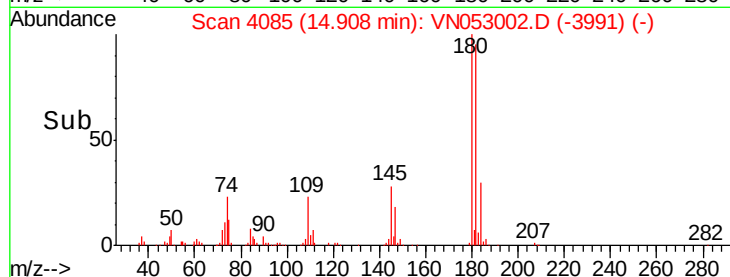
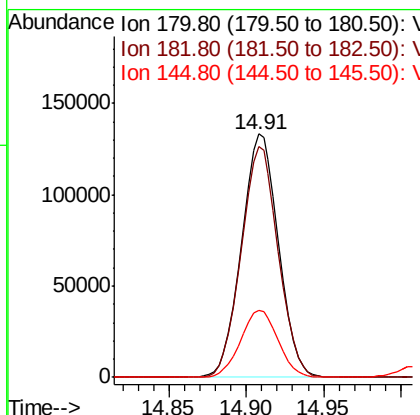
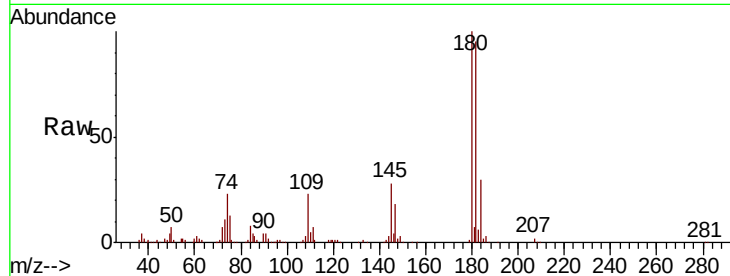
#93
 1,2,4-Trichlorobenzene
 Concen: 18.963 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	220884		
182	95.1	47.8	143.3	
145	28.1	14.2	42.6	

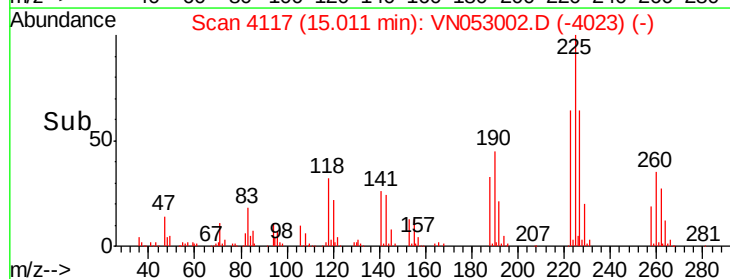
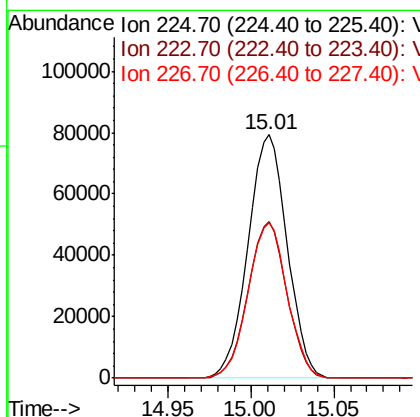
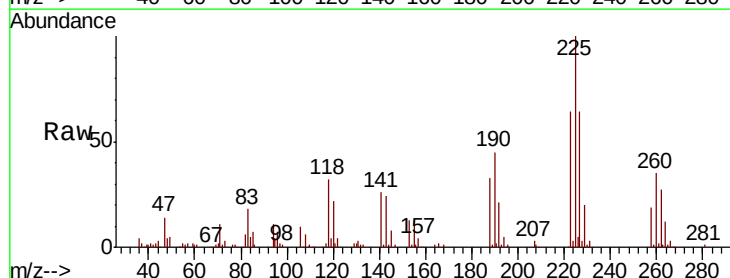
Manual Integrations
 APPROVED

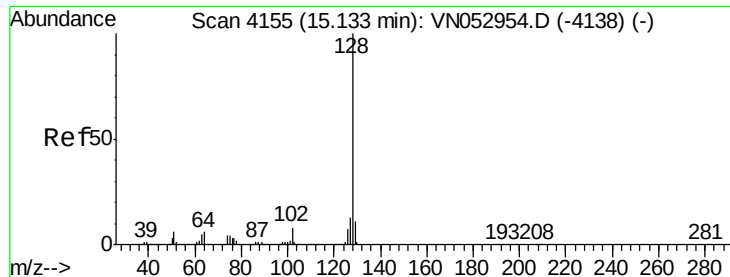
MMDadoda
 12/20/2018 9:34:23 AM



#94
 Hexachlorobutadiene
 Concen: 19.373 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053002.D
 Acq: 19 Dec 2018 11:16

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	130017		
223	63.7	31.5	94.5	
227	63.7	31.9	95.7	





#95

Naphthalene

Concen: 18.579 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Instrument :

MSVOA_N

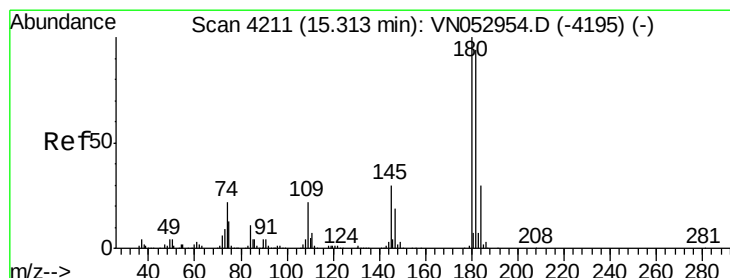
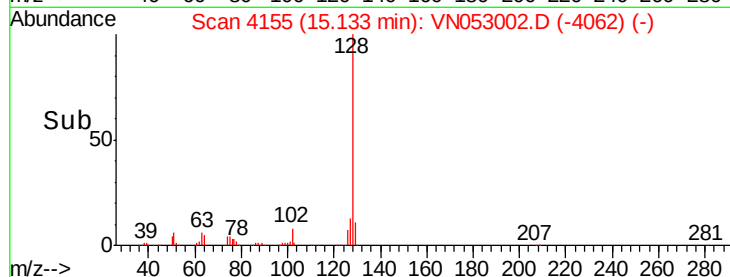
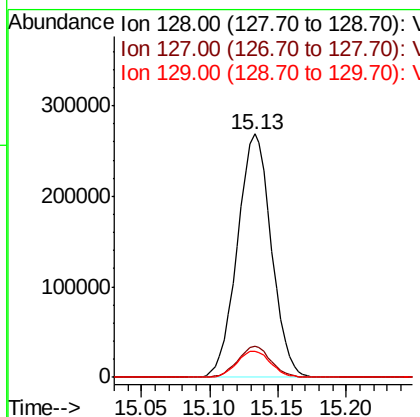
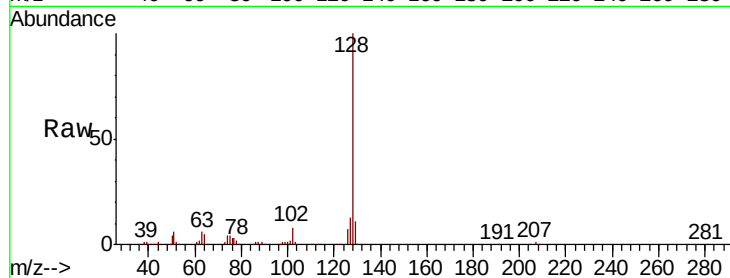
ClientSampleId :

VN1219WBS01

Tot Ion:	128	Resp:	464432
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.2	15.4
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/20/2018 9:34:23 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.009 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN053002.D

Acq: 19 Dec 2018 11:16

Tgt Ion:	180	Resp:	200003
Ion Ratio	Lower	Upper	
180	100		
182	93.8	47.9	143.7
145	29.7	15.0	45.0

