

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122418\
 Data File : VN053175.D
 Acq On : 24 Dec 2018 10:47
 Operator : MD\SY
 Sample : VN1224MBS01
 Misc : 5.00µg/10µL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224MBS01

Manual Integrations
 APPROVED

MMDadoda
 12/26/2018 10:53:29 AM

Quant Time: Dec 24 23:12:11 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	1001388	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1510796	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1338445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	613855	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	498586	49.06	ug/l	0.00
Spiked Amount						
			Recovery	=	98.12%	
35) Dibromofluoromethane	7.59	113	418778	60.68	ug/l	0.00
Spiked Amount						
			Recovery	=	121.36%	
50) Toluene-d8	10.09	98	1810120	48.86	ug/l	0.00
Spiked Amount						
			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	12.40	95	631584	48.56	ug/l	0.00
Spiked Amount						
			Recovery	=	97.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	192663	19.010	ug/l	99
3) Chloromethane	2.06	50	247104	20.120	ug/l	100
4) Vinyl Chloride	2.19	62	243180	19.551	ug/l	99
5) Bromomethane	2.57	94	150910	17.512	ug/l	99
6) Chloroethane	2.71	64	146624	19.904	ug/l	97
7) Trichlorofluoromethane	3.02	101	311247	20.087	ug/l	97
8) Diethyl Ether	3.41	74	124161	21.241	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	205263	20.777	ug/l	99
10) Methyl Iodide	3.96	142	232792	16.779	ug/l	99
11) Tert butyl alcohol	4.77	59	63766	102.839	ug/l #	90
12) 1,1-Dichloroethene	3.74	96	190855	19.996	ug/l	100
13) Acrolein	3.61	56	63690	113.281	ug/l	96
14) Allyl chloride	4.33	41	322798	21.834	ug/l	95
15) Acrylonitrile	4.99	53	366883	106.506	ug/l	100
16) Acetone	3.82	43	212767	106.785	ug/l	98
17) Carbon Disulfide	4.06	76	521598	16.757	ug/l	100
18) Methyl Acetate	4.33	43	200260	22.697	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	538068	21.066	ug/l	99
20) Methylene Chloride	4.55	84	224723	20.676	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	205120	20.002	ug/l	96
22) Diisopropyl ether	5.95	45	688484	21.817	ug/l	99
23) Vinyl Acetate	5.90	43	1983294	109.295	ug/l	99
24) 1,1-Dichloroethane	5.85	63	395702	21.102	ug/l	100
25) 2-Butanone	6.83	43	376347	112.548	ug/l	99
26) 2,2-Dichloropropane	6.83	77	288053	20.123	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	241455	20.798	ug/l	99
28) Bromochloromethane	7.19	49	186406	22.940	ug/l	99
29) Tetrahydrofuran	7.21	42	274890	110.069	ug/l	100
30) Chloroform	7.37	83	383507	20.819	ug/l	99
31) Cyclohexane	7.65	56	367708	20.283	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	312741	19.929	ug/l	99
36) 1,1-Dichloropropene	7.79	75	296666	20.458	ug/l	100
37) Ethyl Acetate	6.93	43	178268	22.022	ug/l	99
38) Carbon Tetrachloride	7.78	117	272653	20.513	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	344317	19.546	ug/l	99
40) Benzene	8.04	78	901240	20.894	ug/l	100
41) Methacrylonitrile	7.17	41	97381	20.820	ug/l	99
42) 1,2-Dichloroethane	8.12	62	268777	21.093	ug/l	100
43) Isopropyl Acetate	8.16	43	322284	19.945	ug/l	98
44) Trichloroethene	8.83	130	248726	19.937	ug/l	99
45) 1,2-Dichloropropane	9.12	63	242709	21.603	ug/l	99
46) Dibromomethane	9.21	93	136159	20.804	ug/l	99
47) Bromodichloromethane	9.40	83	286636	20.603	ug/l	99
48) Methyl methacrylate	9.20	41	164632	20.958	ug/l	99
49) 1,4-Dioxane	9.20	88	41188	414.506	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	880010	112.253	ug/l	99
52) Toluene	10.16	92	556801	20.827	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	284611	19.455	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	347016	20.666	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	199578	21.398	ug/l	98
56) Ethyl methacrylate	10.43	69	255769	20.718	ug/l	97
57) 1,3-Dichloropropane	10.71	76	339211	21.208	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	752026	110.960	ug/l	99
59) 2-Hexanone	10.75	43	601164	113.340	ug/l	99
60) Dibromochloromethane	10.90	129	211094	19.772	ug/l	99
61) 1,2-Dibromoethane	11.01	107	194171	20.498	ug/l	99
64) Tetrachloroethene	10.63	164	273329	18.852	ug/l	99
65) Chlorobenzene	11.43	112	616104	20.766	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	213780	20.720	ug/l	99
67) Ethyl Benzene	11.51	91	1066844	20.909	ug/l	100
68) m/p-Xylenes	11.62	106	810791	41.800	ug/l	99
69) o-Xylene	11.95	106	393130	21.121	ug/l	99
70) Styrene	11.96	104	643072	21.188	ug/l	100
71) Bromoform	12.13	173	144751	19.420	ug/l #	99
73) Isopropylbenzene	12.25	105	1051123	21.885	ug/l	100
74) N-amyl acetate	12.07	43	281583	21.117	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	227170	24.109	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	210329m	20.354	ug/l	
77) Bromobenzene	12.53	156	268449	21.502	ug/l	98
78) n-propylbenzene	12.59	91	1176692	21.512	ug/l	99
79) 2-Chlorotoluene	12.67	91	703699	20.754	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	828714	21.169	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	61522	19.189	ug/l	97
82) 4-Chlorotoluene	12.77	91	703761	21.204	ug/l	99
83) tert-Butylbenzene	12.99	119	735936	21.256	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	840422	21.355	ug/l	99
85) sec-Butylbenzene	13.17	105	968431	20.680	ug/l	100
86) p-Isopropyltoluene	13.29	119	830555	20.525	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	455977	20.636	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	448400	20.039	ug/l	99
89) n-Butylbenzene	13.61	91	666698	19.151	ug/l	100
90) Hexachloroethane	13.87	117	125899	20.274	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	426613	20.514	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	31242	19.176	ug/l	96

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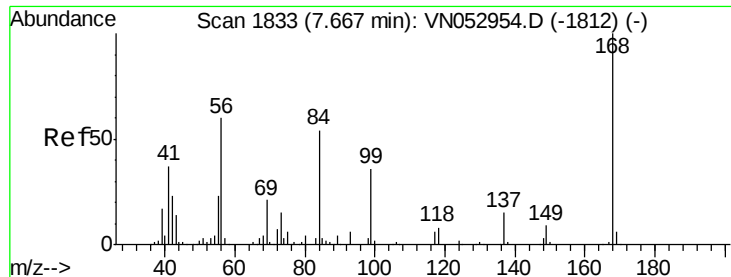
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	196064	18.179	ug/l	100
94) Hexachlorobutadiene	15.01	225	133991	21.872	ug/l	98
95) Naphthalene	15.13	128	404288	17.513	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	174651	17.932	ug/l	100

(#) = 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: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VN1224MBS01

Tot Ion:168 Resp: 1001388

Ion Ratio Lower Upper

168 100

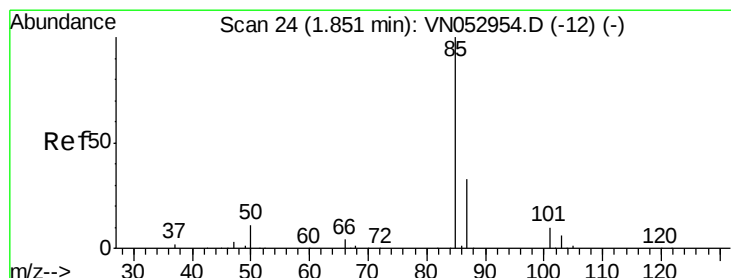
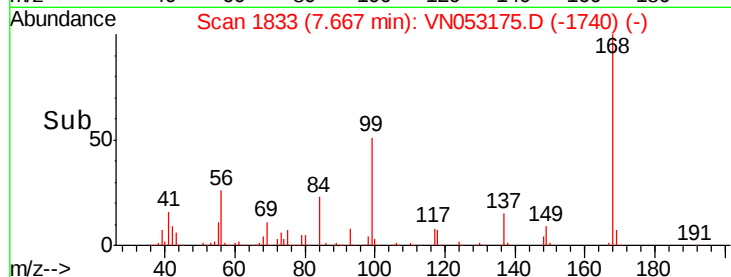
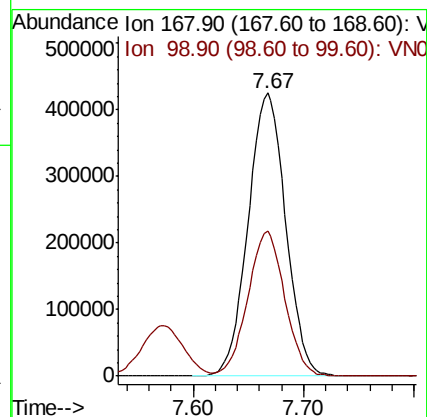
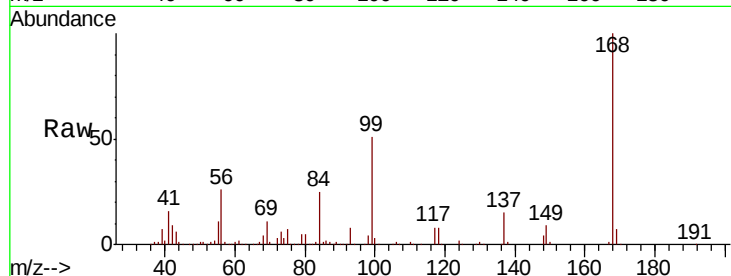
99 51.0 40.2 60.2

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 19.010 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN053175.D

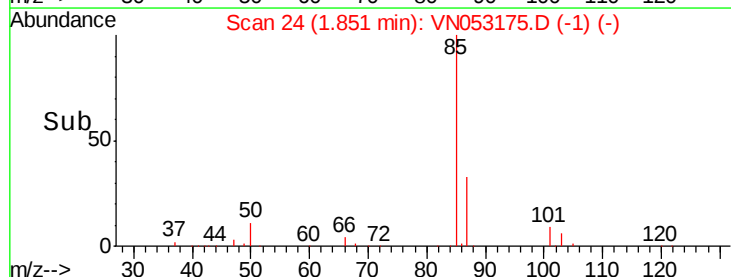
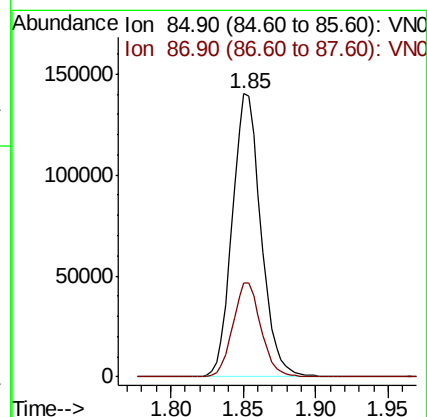
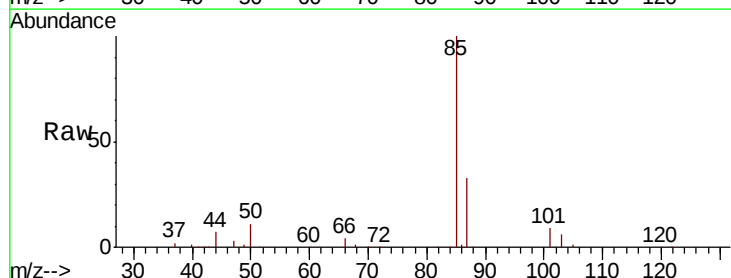
Acq: 24 Dec 2018 10:47

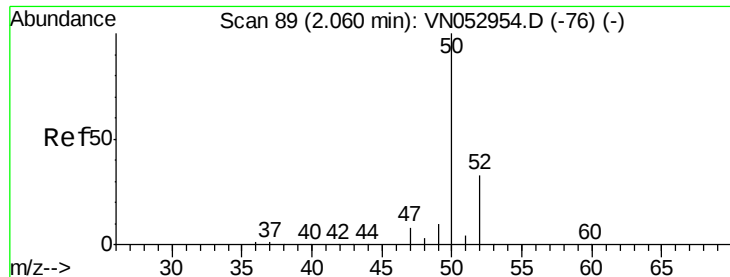
Tgt Ion: 85 Resp: 192663

Ion Ratio Lower Upper

85 100

87 33.2 16.3 48.8





#3

Chloromethane

Concen: 20.120 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VN1224MBS01

Tot Ion: 50 Resp: 247104

Ion Ratio Lower Upper

50 100

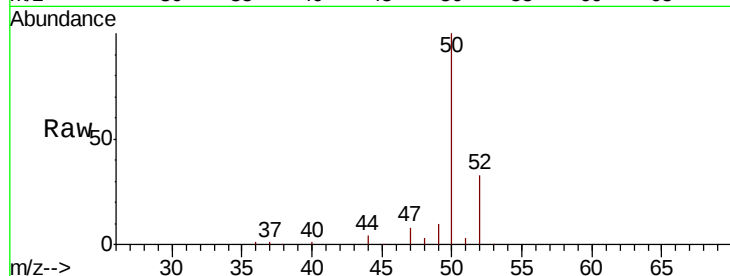
52 32.9 26.2 39.4

Manual Integrations

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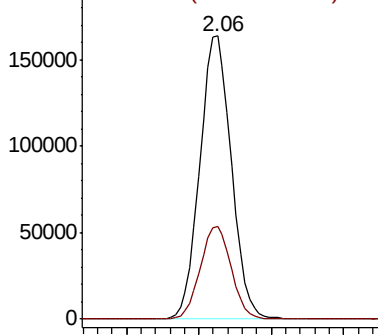
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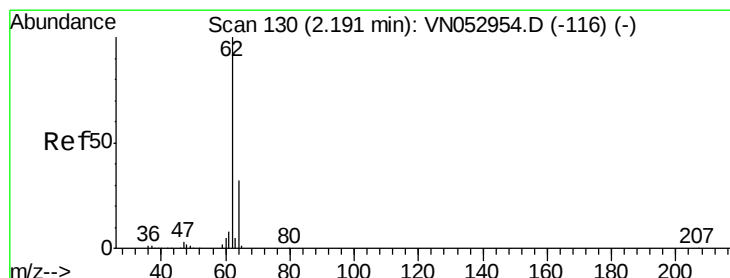
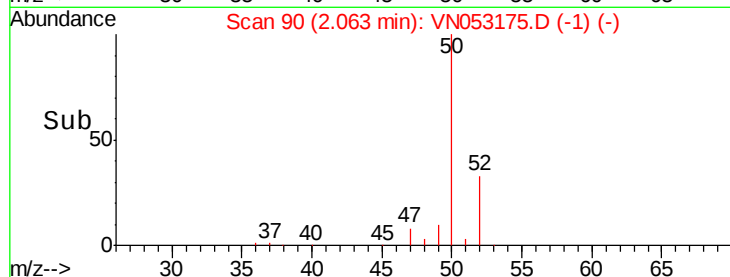


Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



Time-->



#4

Vinyl Chloride

Concen: 19.551 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN053175.D

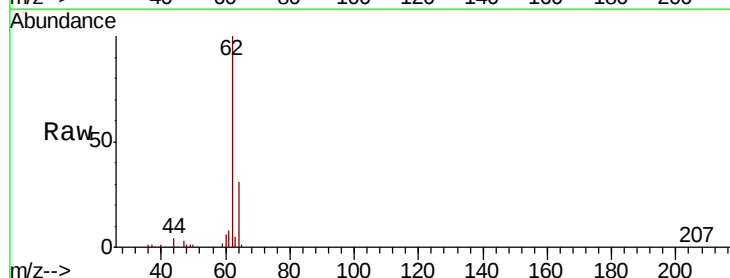
Acq: 24 Dec 2018 10:47

Tgt Ion: 62 Resp: 243180

Ion Ratio Lower Upper

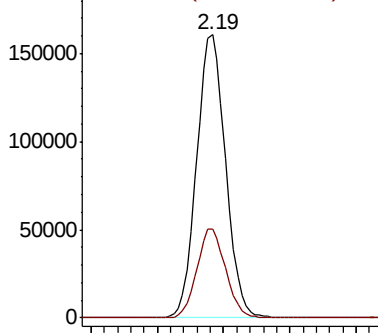
62 100

64 31.4 25.5 38.3

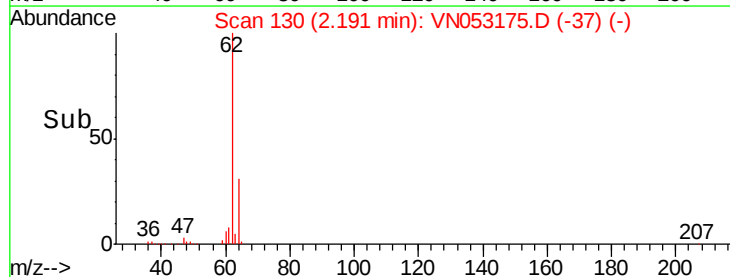


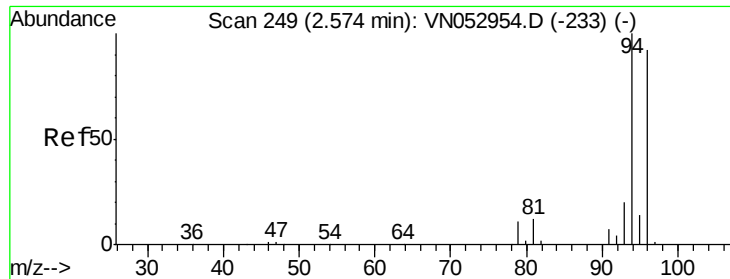
Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



Time-->





#5

Bromomethane

Concen: 17.512 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

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ClientSampleId :

VN1224MBS01

Tot Ion: 94 Resp: 150910

Ion Ratio Lower Upper

94 100

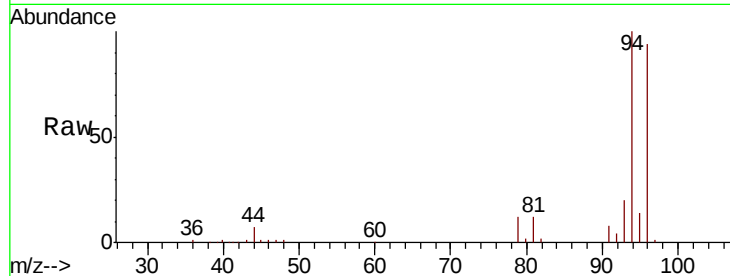
96 94.4 75.0 112.4

Manual Integrations

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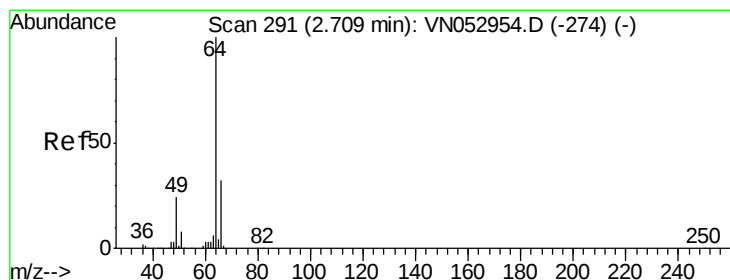
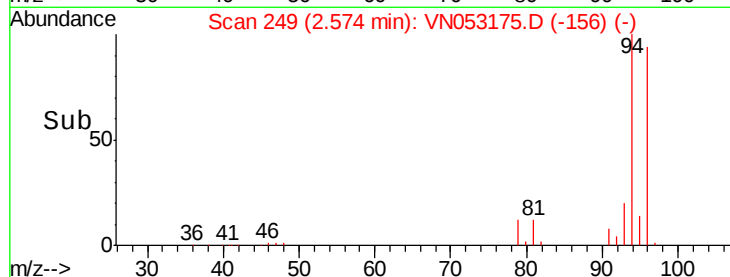
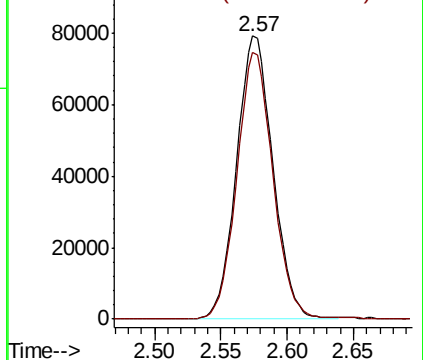
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.904 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN053175.D

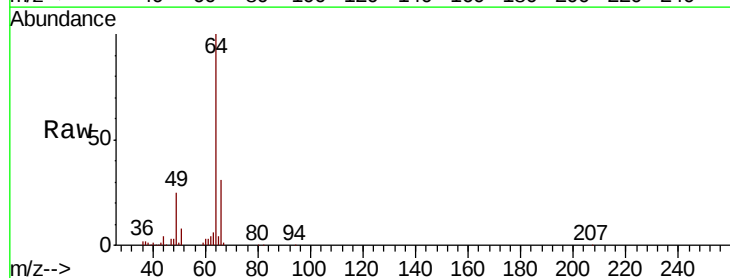
Acq: 24 Dec 2018 10:47

Tgt Ion: 64 Resp: 146624

Ion Ratio Lower Upper

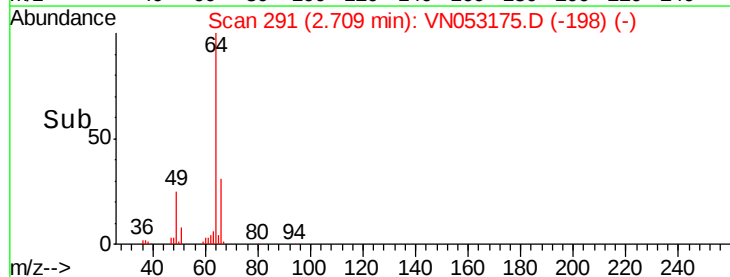
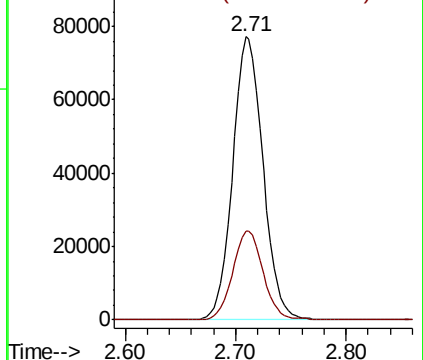
64 100

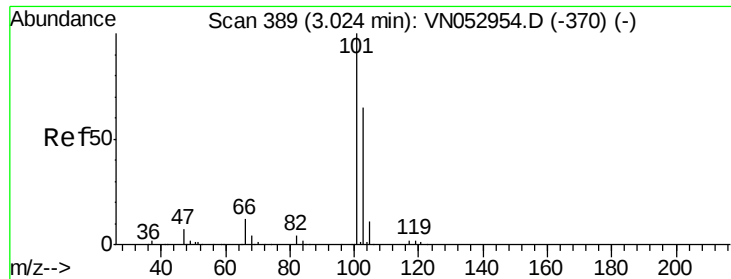
66 31.2 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

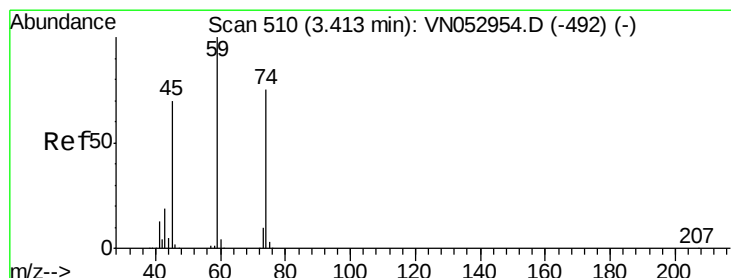
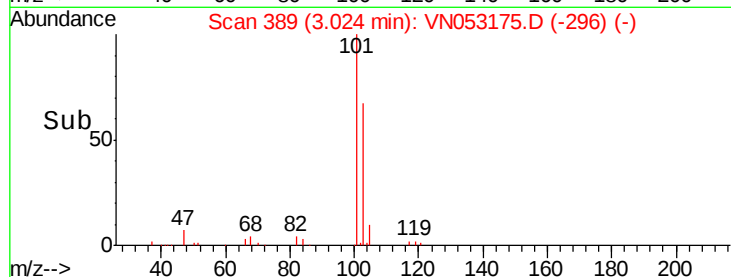
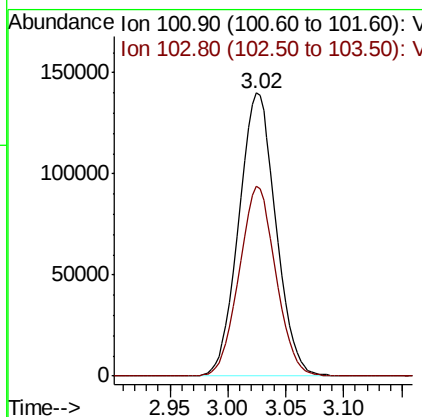
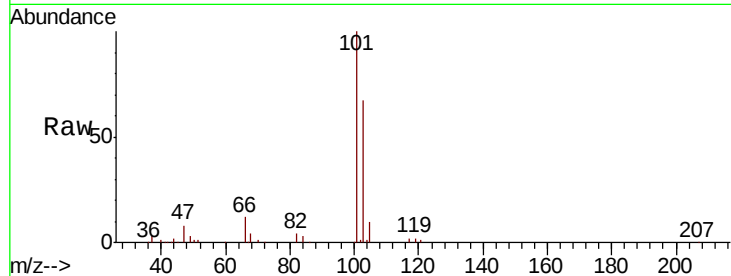
Trichlorofluoromethane
 Concen: 20.087 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	67.2	51.8	77.6

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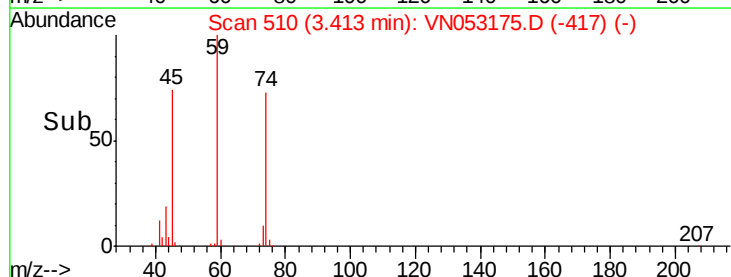
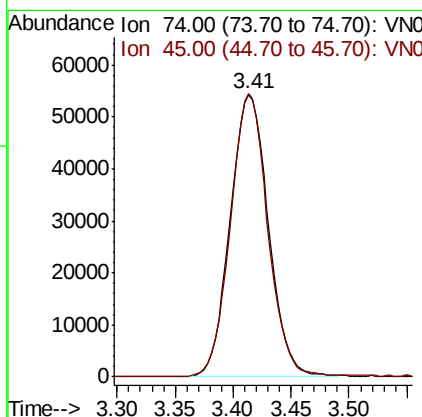
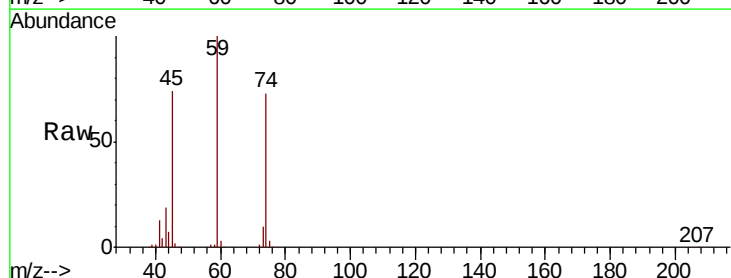
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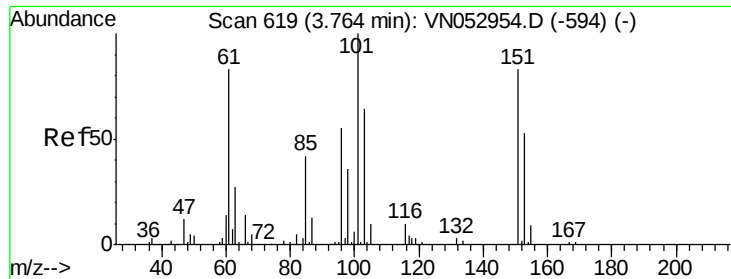


#8

Diethyl Ether
 Concen: 21.241 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.7	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.777 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

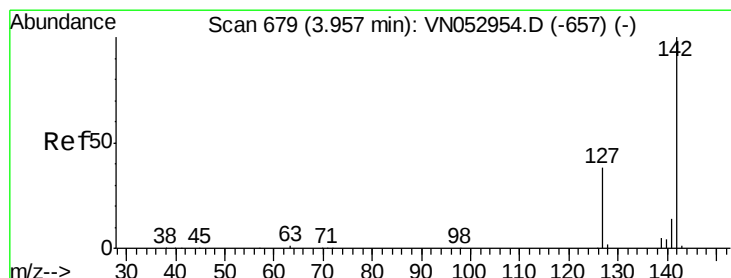
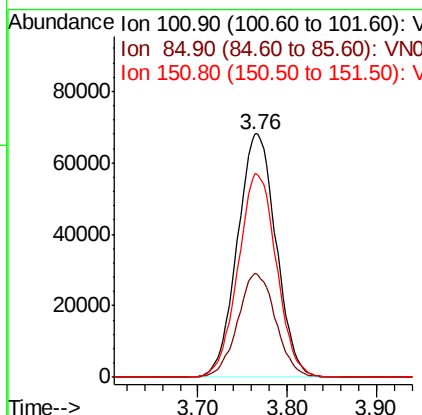
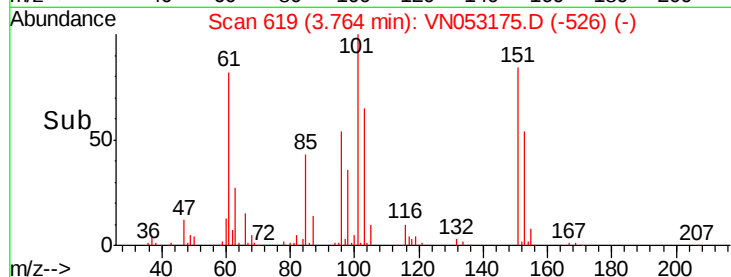
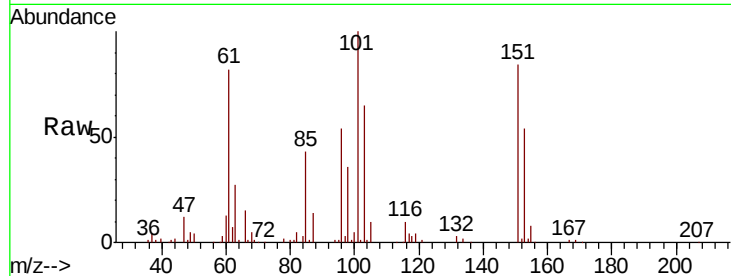
ClientSampleId :

VN1224MBS01

Tot Ion:	101	Resp:	205263
Ion Ratio	Lower	Upper	
101	100		
85	42.0	33.6	50.4
151	83.1	65.5	98.3

Manual Integrations
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#10

Methyl Iodide

Concen: 16.779 ug/l

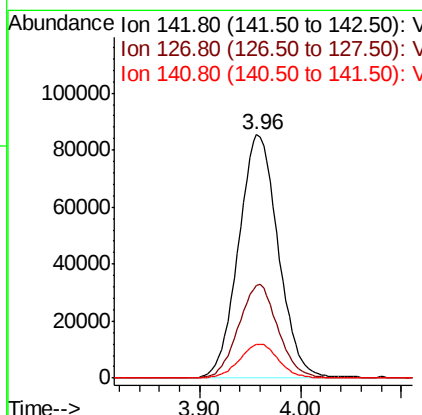
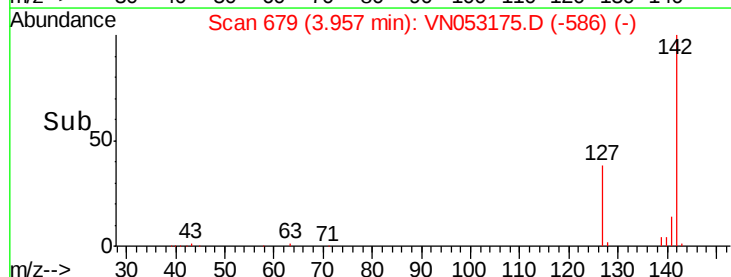
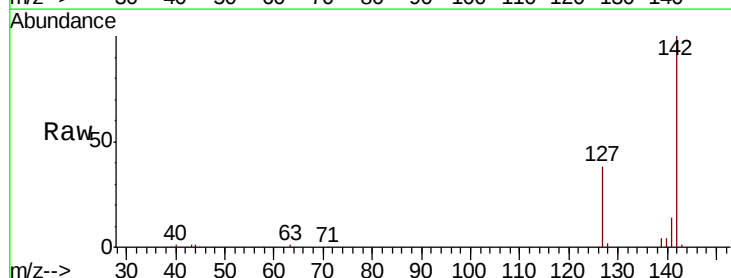
RT: 3.96 min Scan# 679

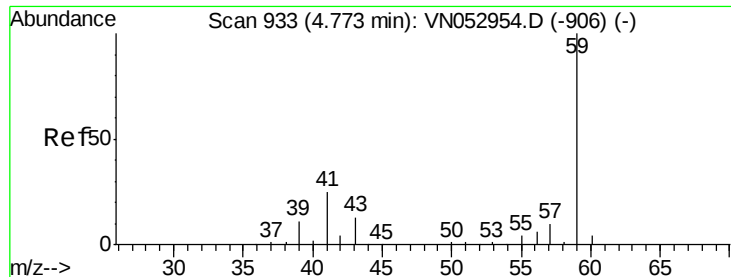
Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Tgt Ion:	142	Resp:	232792
Ion Ratio	Lower	Upper	
142	100		
127	38.1	31.0	46.6
141	13.7	11.2	16.8





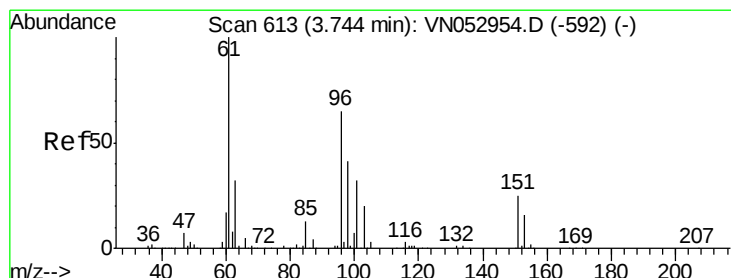
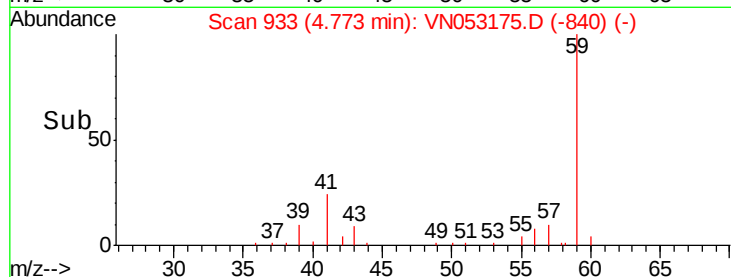
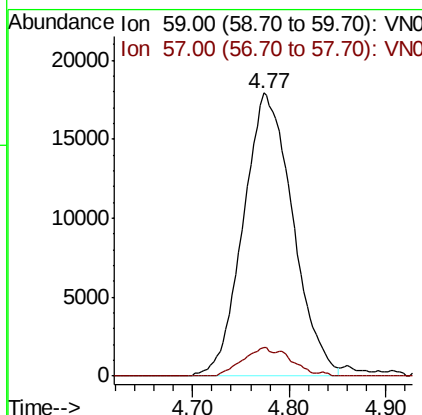
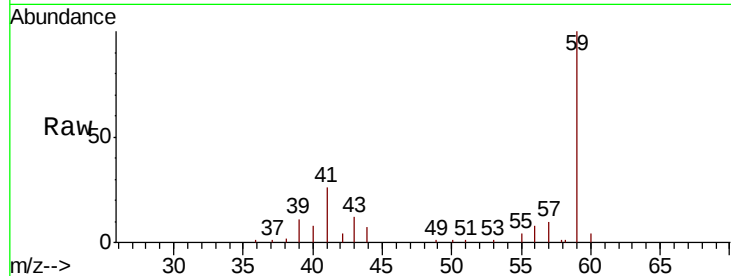
#11
Tert butyl alcohol
Concen: 102.839 ug/l
RT: 4.77 min Scan# 933
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion: 59 Resp: 63766
Ion Ratio Lower Upper
59 100
57 5.9 7.7 11.5#

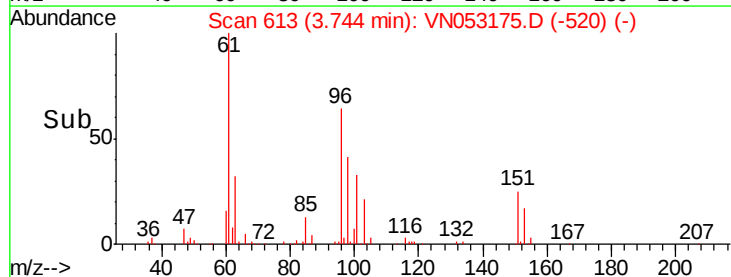
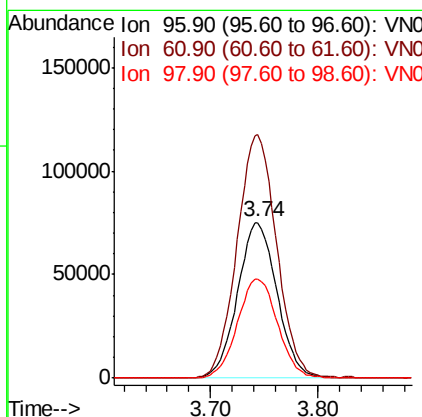
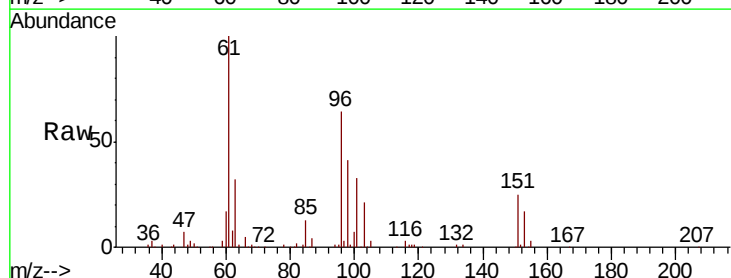
Manual Integrations
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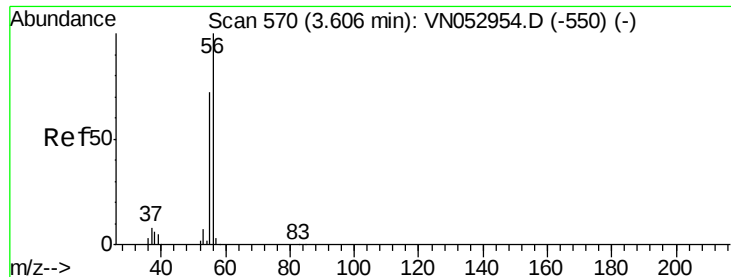
MMDadoda
12/26/2018 10:53:29 AM



#12
1,1-Dichloroethene
Concen: 19.996 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion: 96 Resp: 190855
Ion Ratio Lower Upper
96 100
61 156.6 125.6 188.4
98 63.5 50.6 75.8





#13

Acrolein

Concen: 113.281 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VN1224MBS01

Tot Ion: 56 Resp: 63690

Ion Ratio Lower Upper

56 100

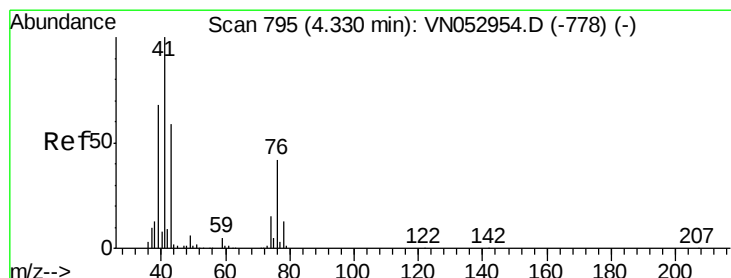
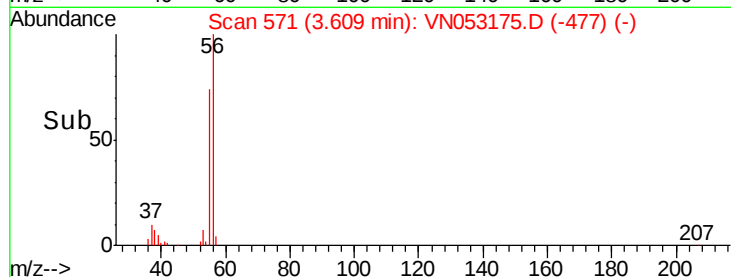
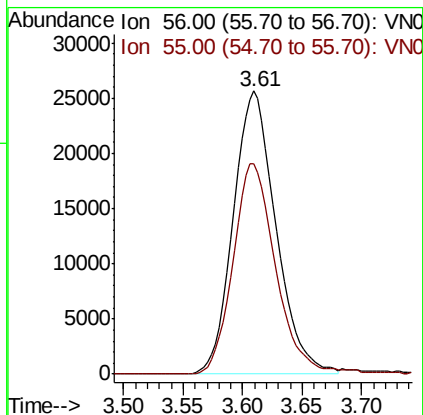
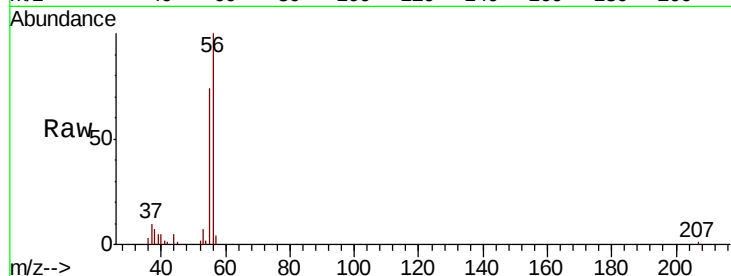
55 73.9 56.6 85.0

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 21.834 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

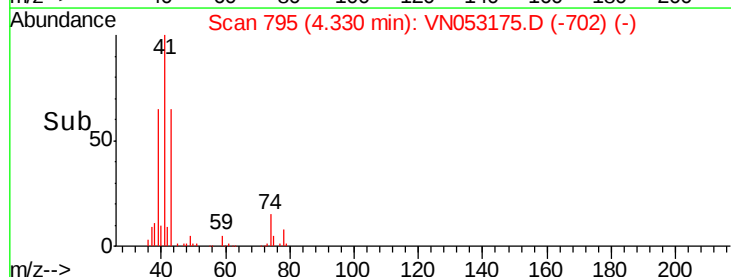
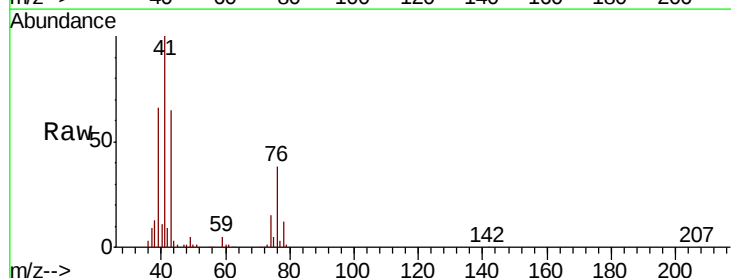
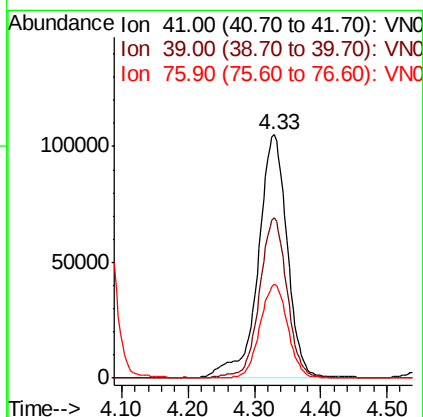
Tgt Ion: 41 Resp: 322798

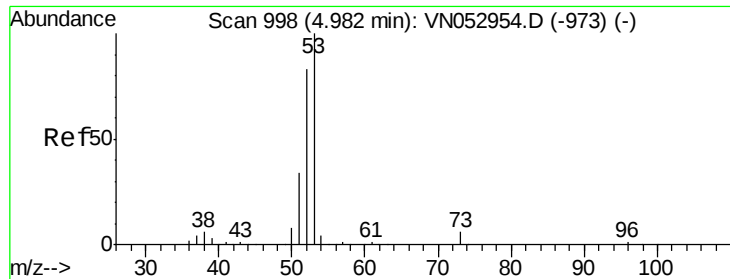
Ion Ratio Lower Upper

41 100

39 62.3 54.1 81.1

76 35.8 30.3 45.5





#15

Acrylonitrile

Concen: 106.506 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

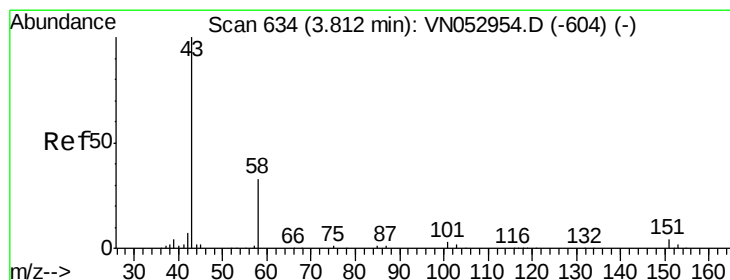
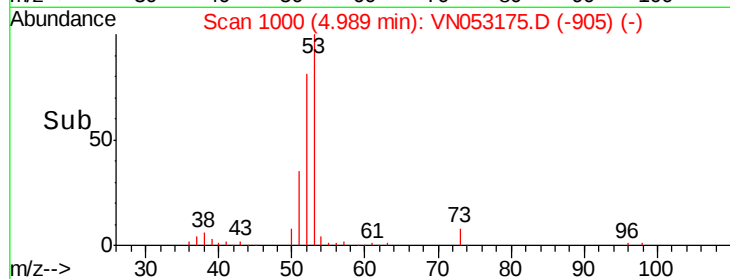
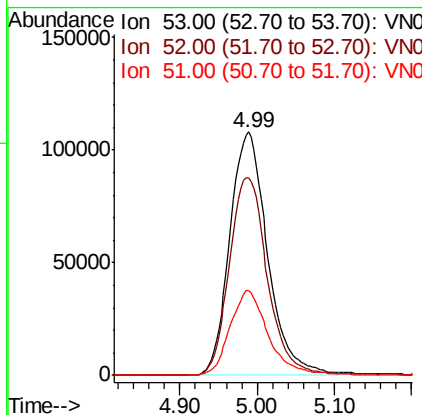
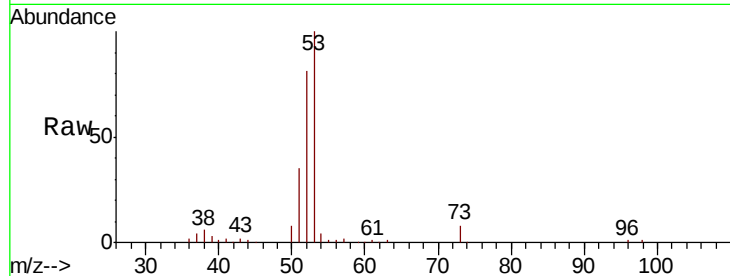
ClientSampleId :

VN1224MBS01

Tot Ion:	53	Resp:	366883
Ion Ratio	Lower	Upper	
53	100		
52	81.8	65.1	97.7
51	35.4	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 106.785 ug/l

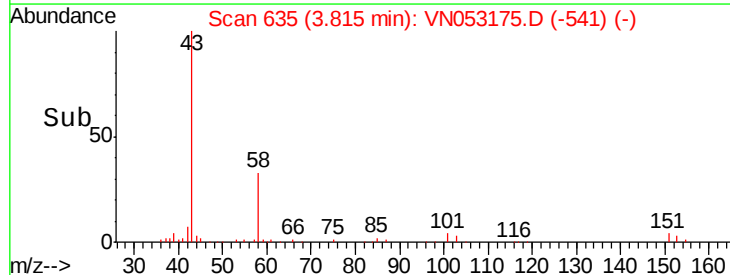
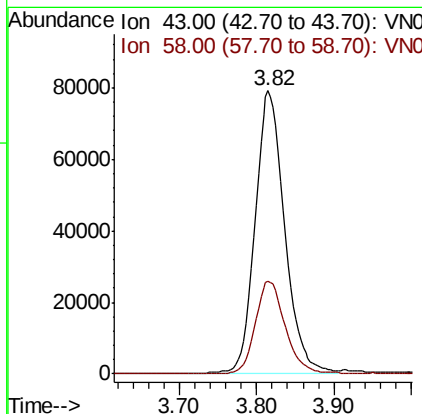
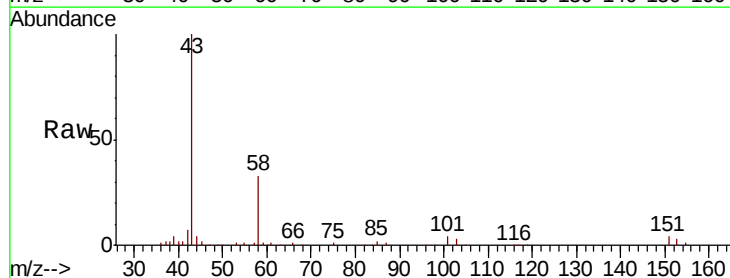
RT: 3.82 min Scan# 635

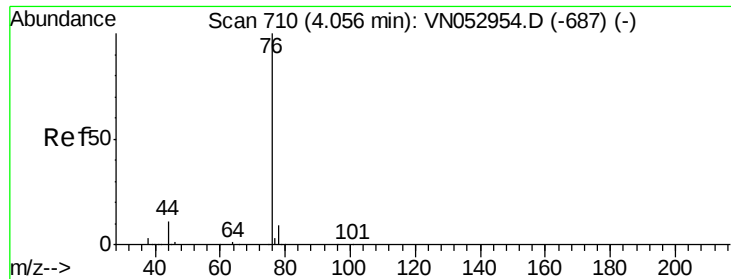
Delta R.T. 0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Tgt Ion:	43	Resp:	212767
Ion Ratio	Lower	Upper	
43	100		
58	32.6	25.4	38.0





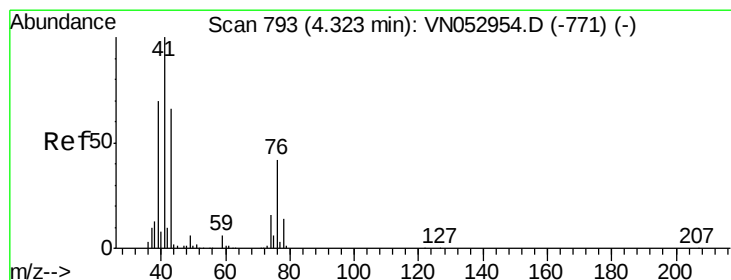
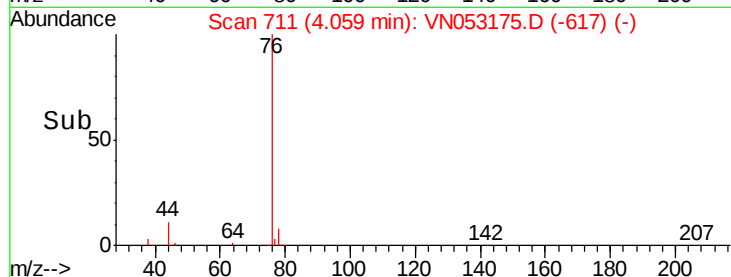
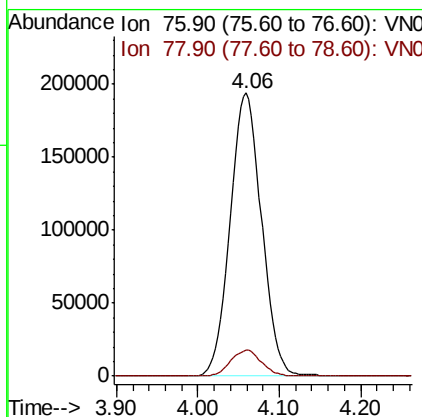
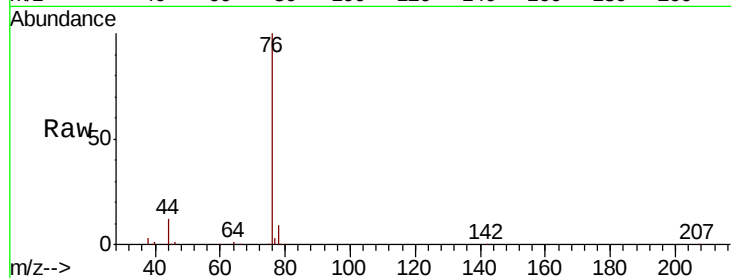
#17
Carbon Disulfide
Concen: 16.757 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.1	10.7

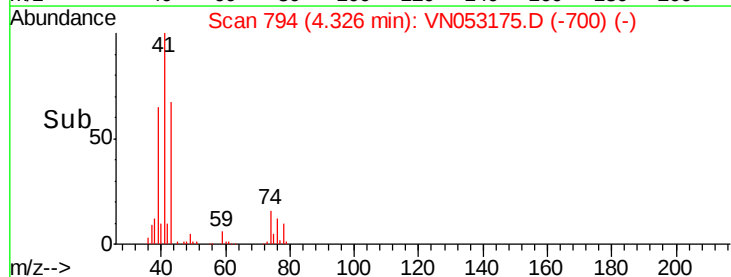
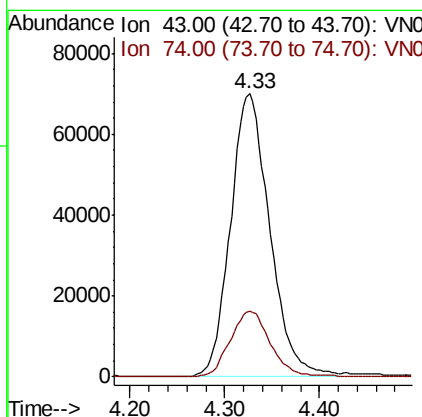
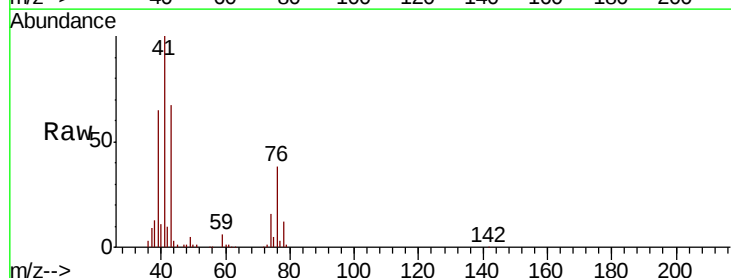
Manual Integrations
APPROVED

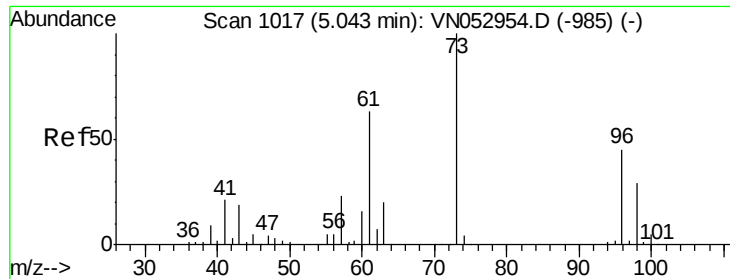
MMDadoda
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#18
Methyl Acetate
Concen: 22.697 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.0	19.2	28.8





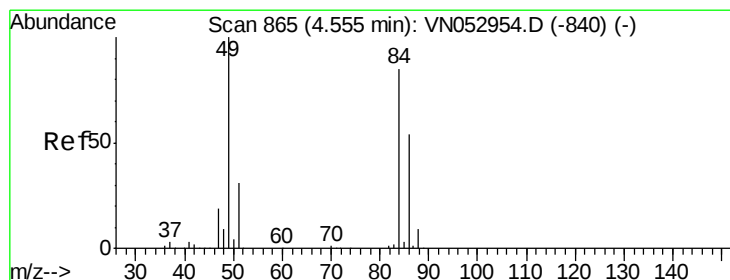
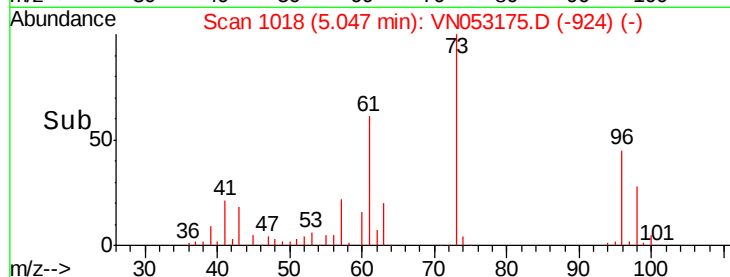
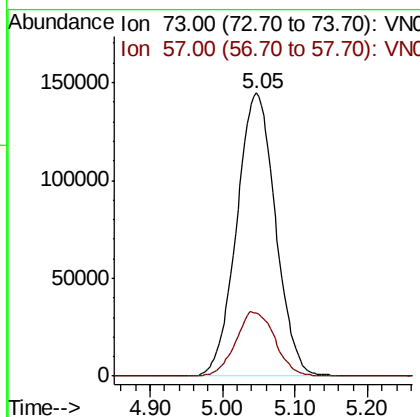
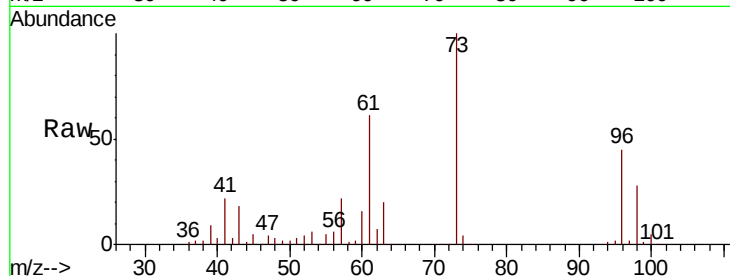
#19
Methvl tert-butvl Ether
Concen: 21.066 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion: 73 Resp: 538068
Ion Ratio Lower Upper
73 100
57 22.3 18.4 27.6

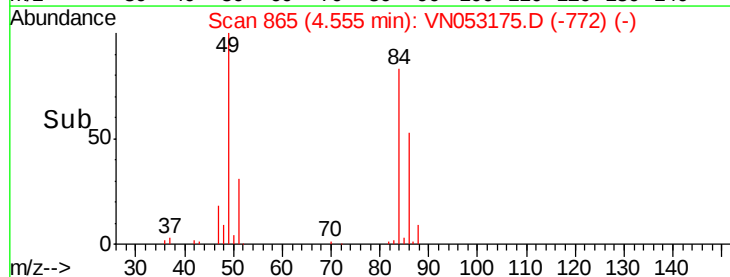
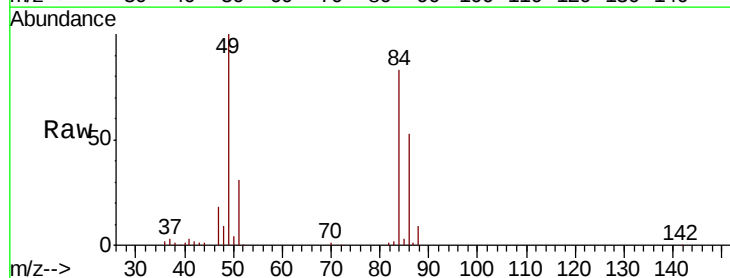
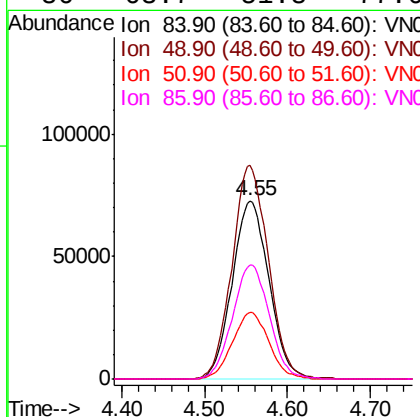
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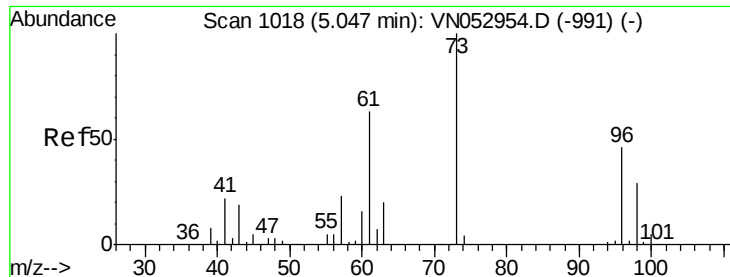
MMDadoda
12/26/2018 10:53:29 AM



#20
Methylene Chloride
Concen: 20.676 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion: 84 Resp: 224723
Ion Ratio Lower Upper
84 100
49 119.8 96.8 145.2
51 37.4 29.9 44.9
86 63.7 51.8 77.6





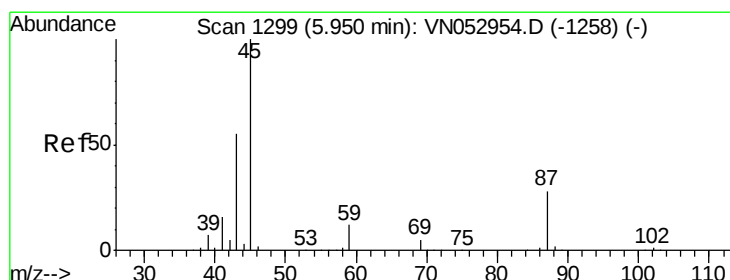
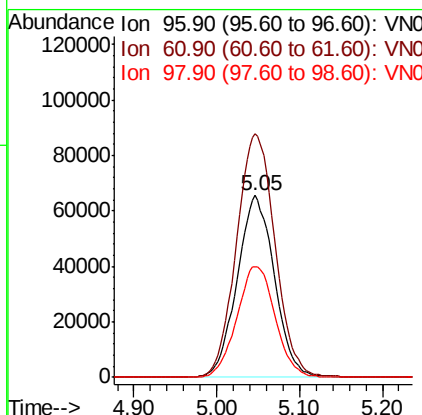
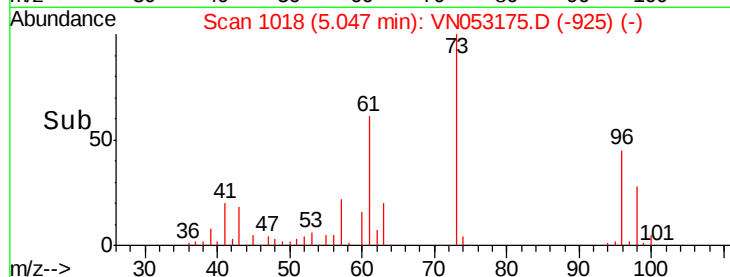
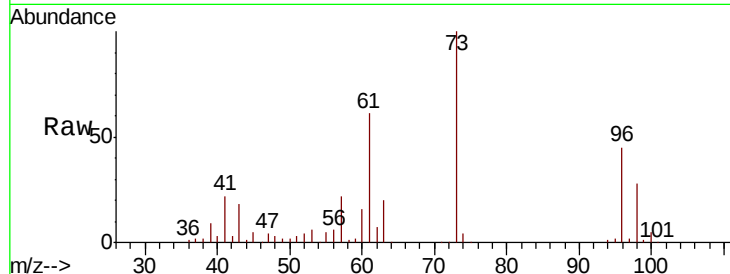
#21
trans-1,2-Dichloroethene
Concen: 20.002 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.1	110.8	166.2
98	61.2	51.4	77.2

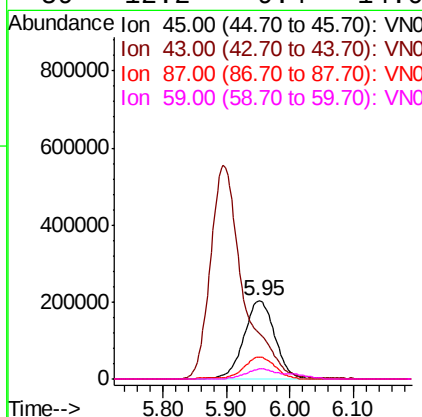
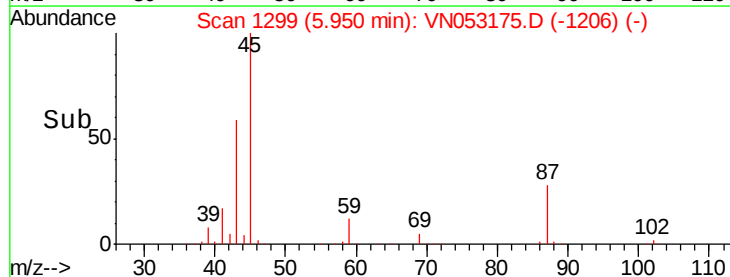
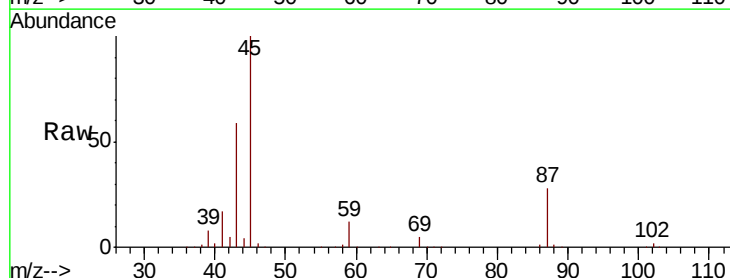
Manual Integrations
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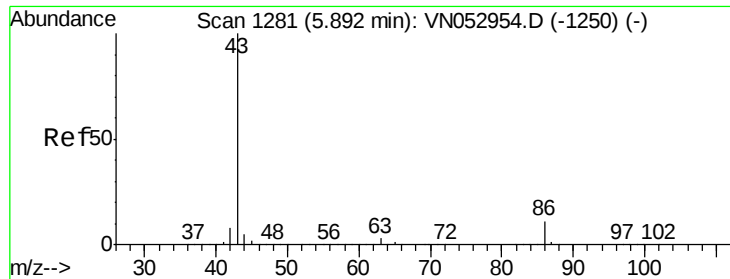
MMDadoda
12/26/2018 10:53:29 AM



#22
Diisopropyl ether
Concen: 21.817 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.6	45.5	68.3
87	27.8	22.0	33.0
59	12.2	9.4	14.0





#23

Vinyl Acetate

Concen: 109.295 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VN1224MBS01

Tot Ion: 43 Resp: 1983294

Ion Ratio Lower Upper

43 100

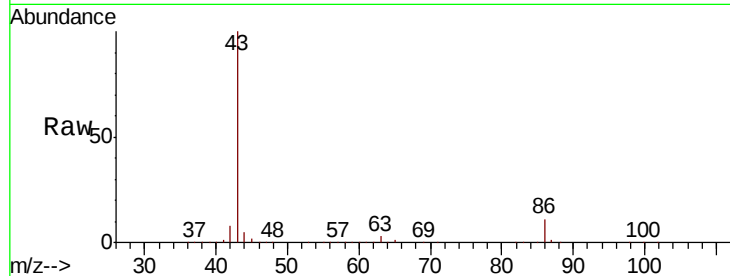
86 10.5 8.1 12.1

Manual Integrations

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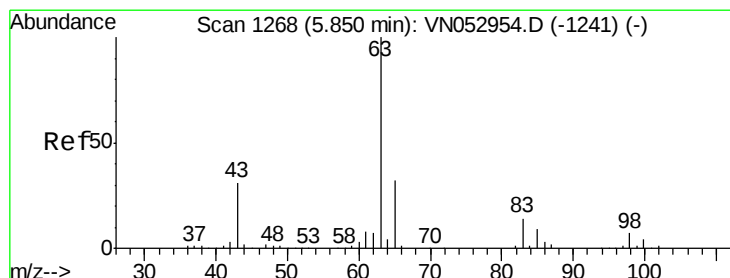
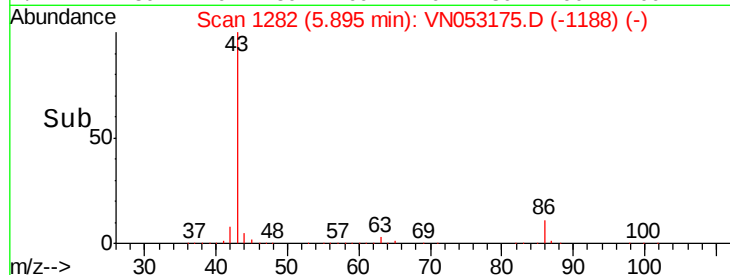
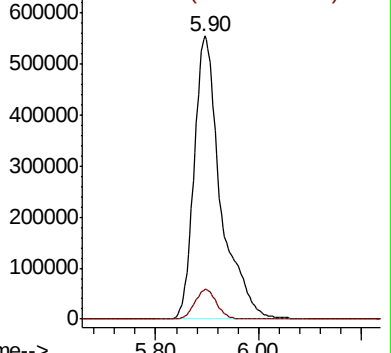
MMDadoda

12/26/2018 10:53:29 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 21.102 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

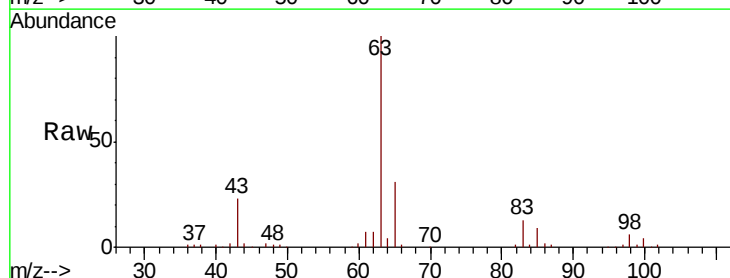
Tgt Ion: 63 Resp: 395702

Ion Ratio Lower Upper

63 100

98 6.4 3.1 9.4

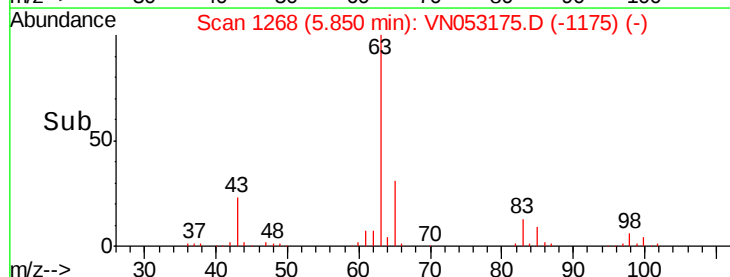
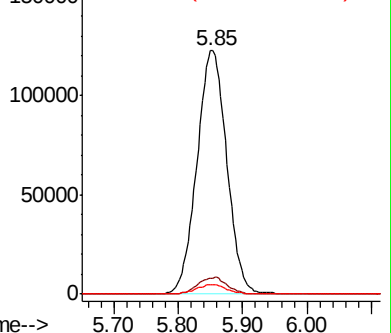
100 4.1 2.0 5.8

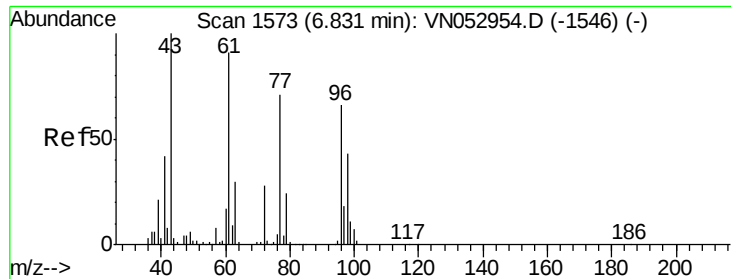


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





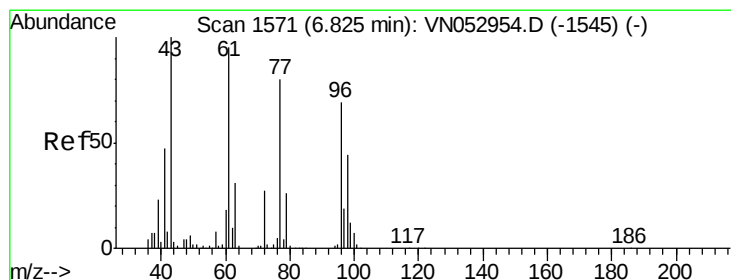
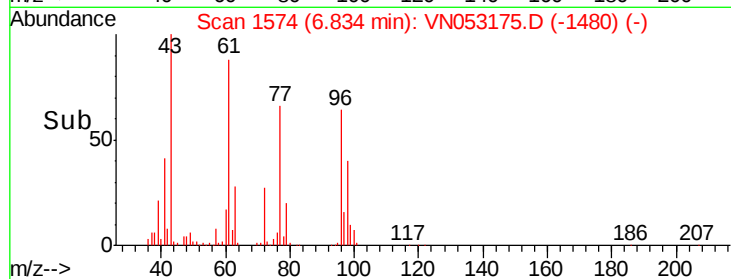
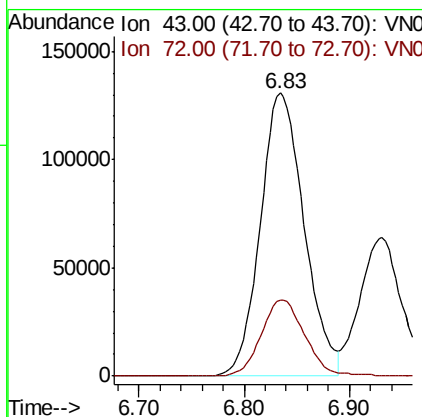
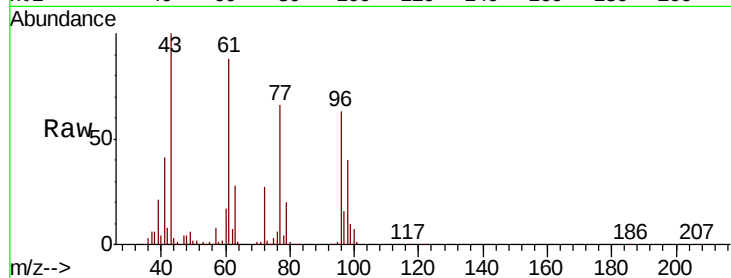
#25
2-Butanone
Concen: 112.548 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion: 43 Resp: 376347
Ion Ratio Lower Upper
43 100
72 27.0 21.0 31.6

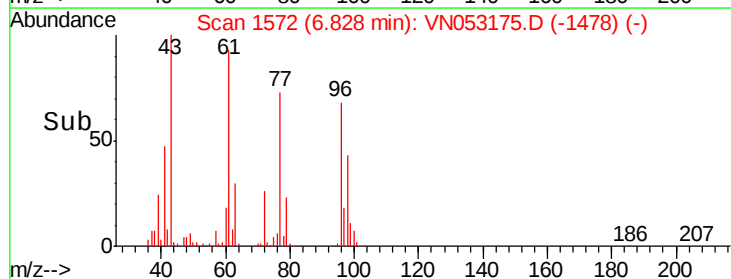
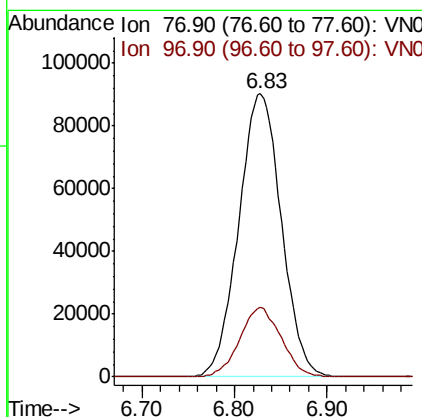
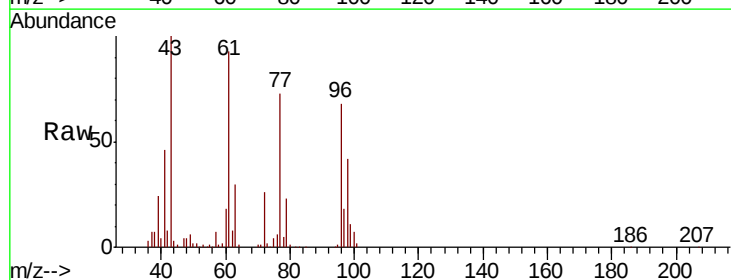
Manual Integrations
APPROVED

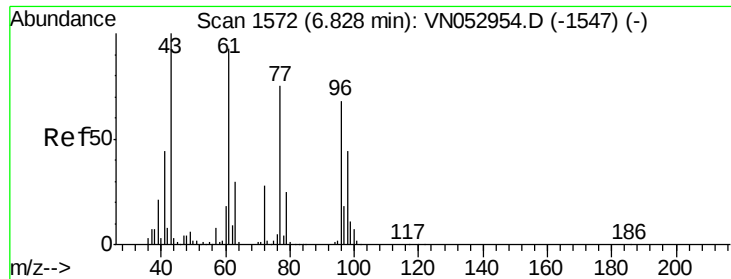
MMDadoda
12/26/2018 10:53:29 AM



#26
2,2-Dichloropropane
Concen: 20.123 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion: 77 Resp: 288053
Ion Ratio Lower Upper
77 100
97 23.8 11.9 35.9





#27

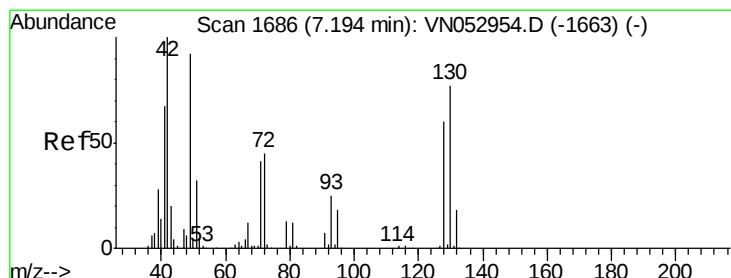
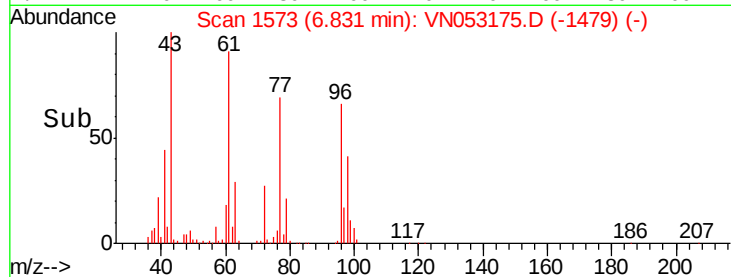
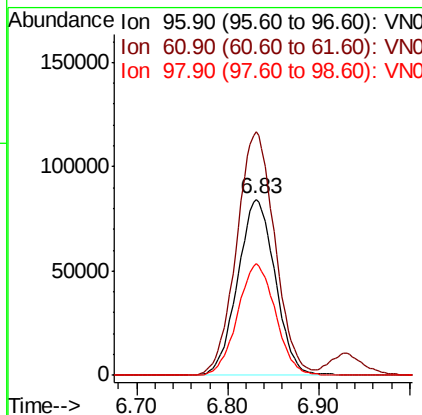
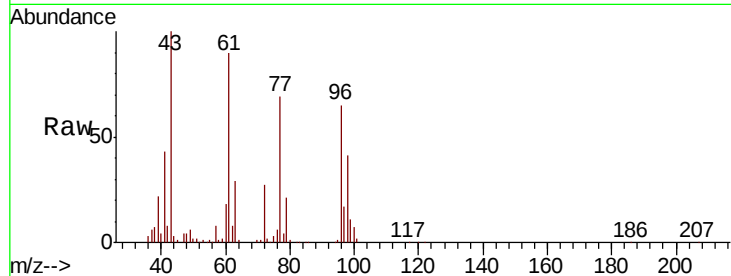
cis-1,2-Dichloroethene
 Concen: 20.798 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224MBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	241455		
61	141.3	0.0	284.2	
98	64.0	0.0	129.2	

Manual Integrations
 APPROVED

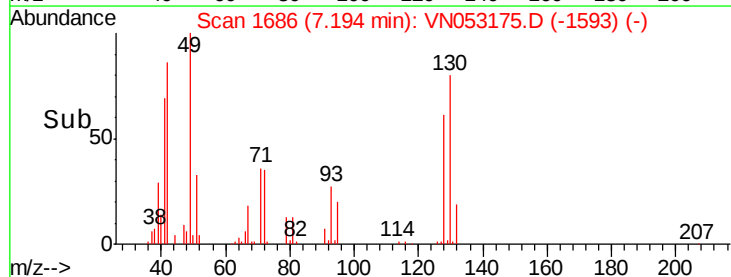
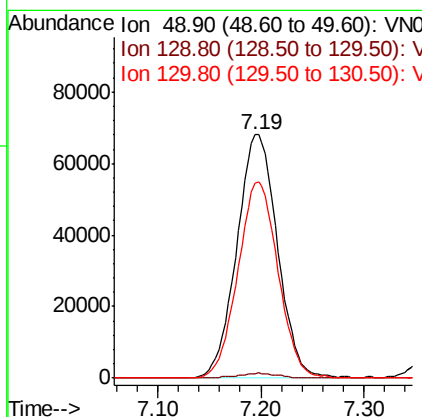
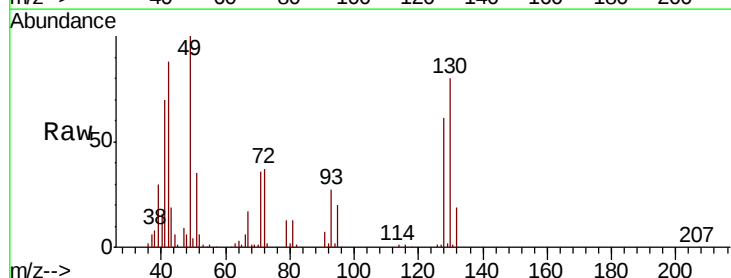
MMDadoda
 12/26/2018 10:53:29 AM

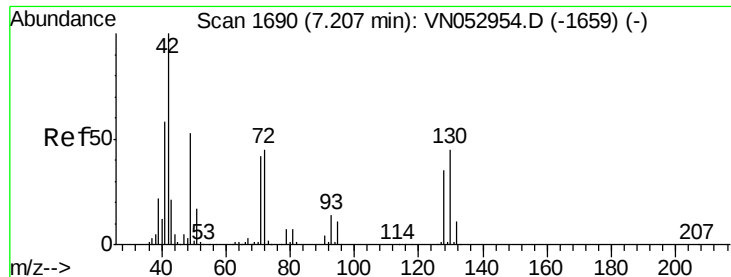


#28

Bromochloromethane
 Concen: 22.940 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	186406		
129	1.9	0.0	4.0	
130	79.6	63.3	94.9	





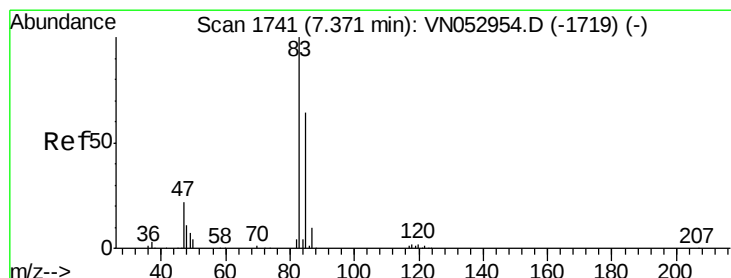
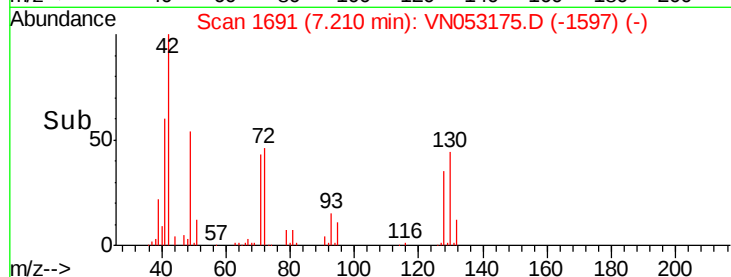
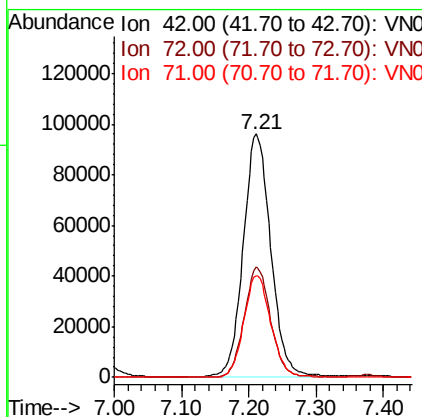
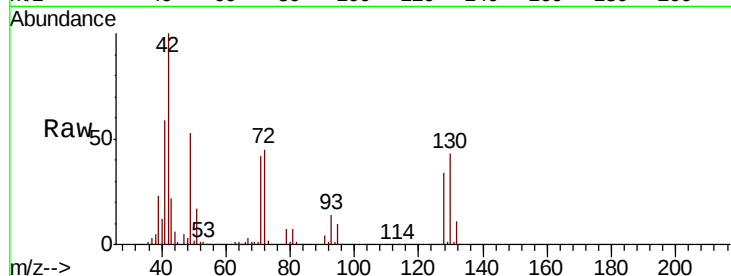
#29
Tetrahydrofuran
Concen: 110.069 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.3	34.7	52.1
71	40.9	32.3	48.5

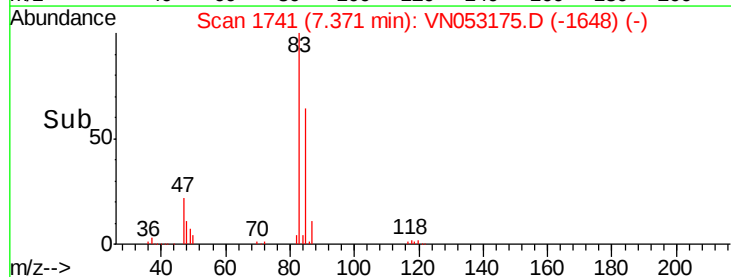
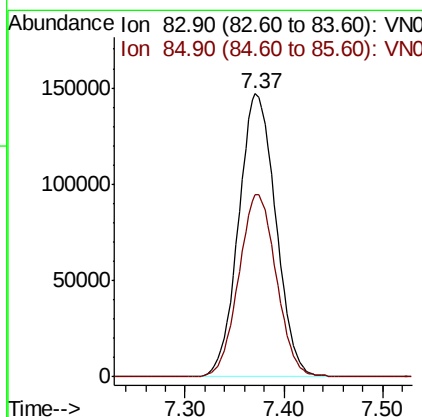
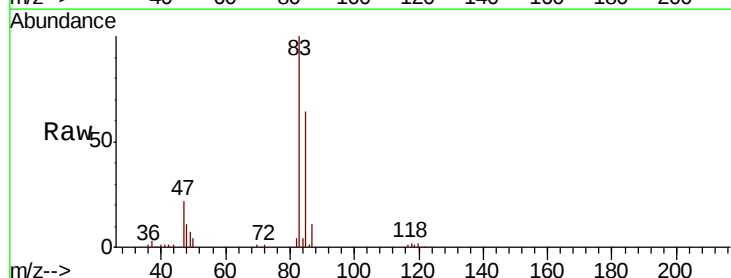
Manual Integrations
APPROVED

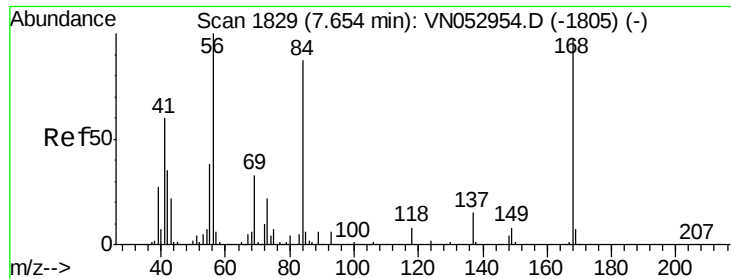
MMDadoda
12/26/2018 10:53:29 AM



#30
Chloroform
Concen: 20.819 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.1	78.1





#31

Cyclohexane

Concen: 20.283 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VN1224MBS01

Tot Ion: 56 Resp: 367708

Ion Ratio Lower Upper

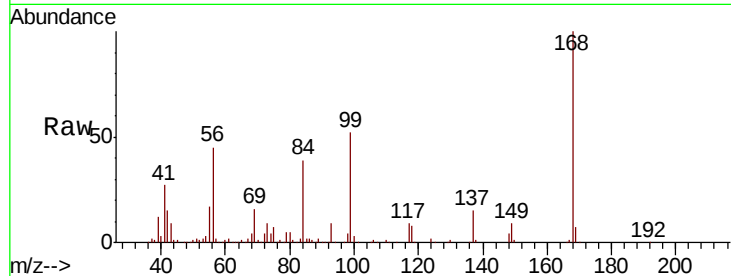
56 100

69 36.6 26.6 39.8

84 85.9 68.4 102.6

Manual Integrations
APPROVED

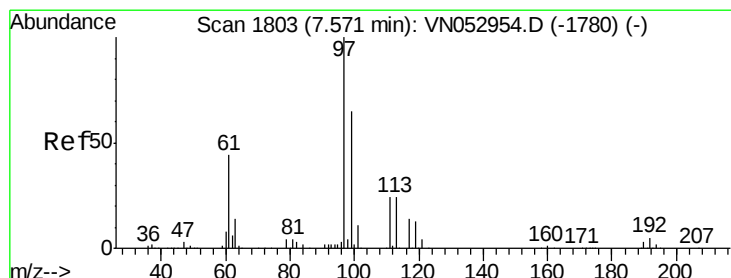
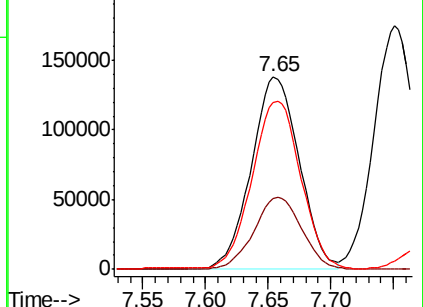
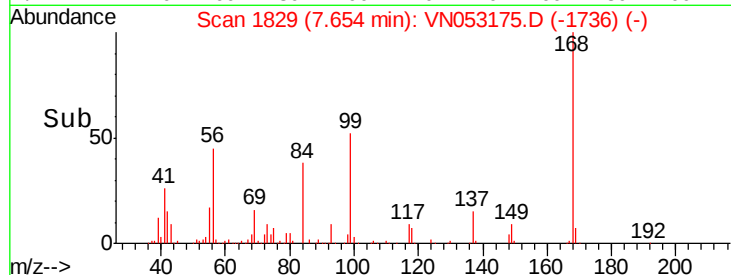
MMDadoda
12/26/2018 10:53:29 AM



Abundance Ion 56.00 (55.70 to 56.70): VN053175.D (-1736) (-)

Ion 69.00 (68.70 to 69.70): VN053175.D (-1736) (-)

Ion 84.00 (83.70 to 84.70): VN053175.D (-1736) (-)



#32

1,1,1-Trichloroethane

Concen: 19.929 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

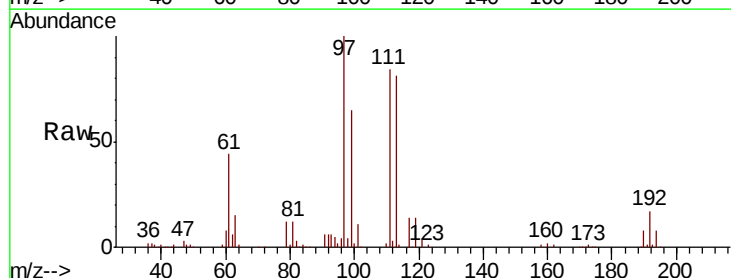
Tgt Ion: 97 Resp: 312741

Ion Ratio Lower Upper

97 100

99 65.2 51.1 76.7

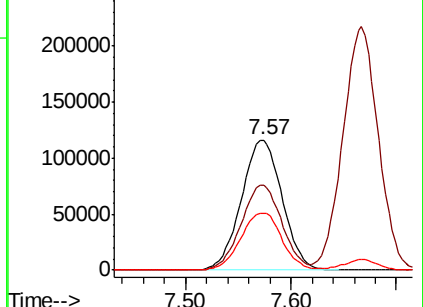
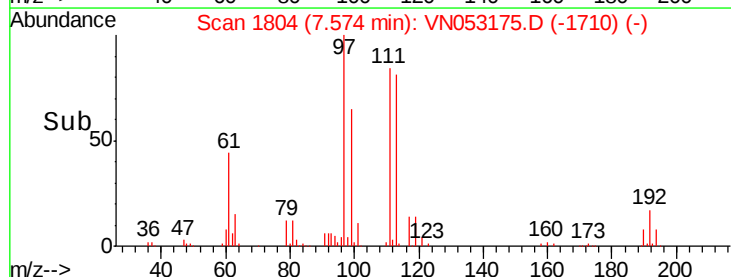
61 44.5 35.0 52.6

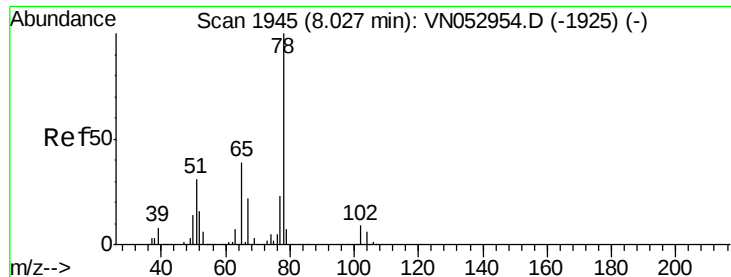


Abundance Ion 96.90 (96.60 to 97.60): VN053175.D (-1710) (-)

Ion 98.90 (98.60 to 99.60): VN053175.D (-1710) (-)

Ion 60.90 (60.60 to 61.60): VN053175.D (-1710) (-)





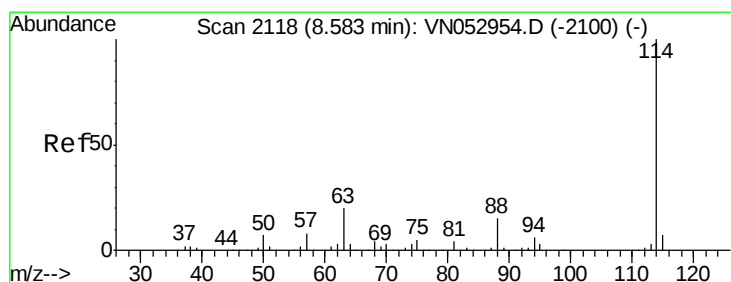
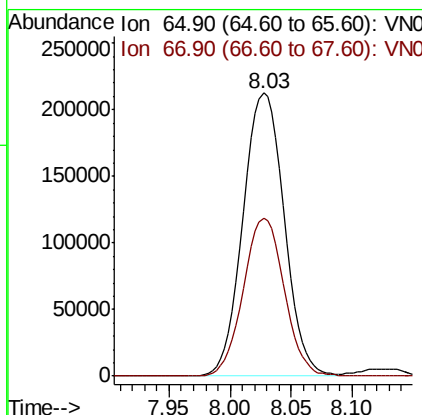
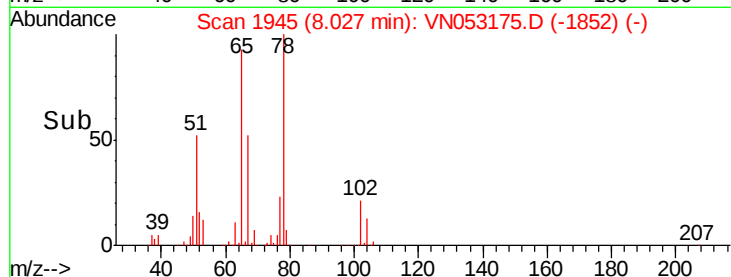
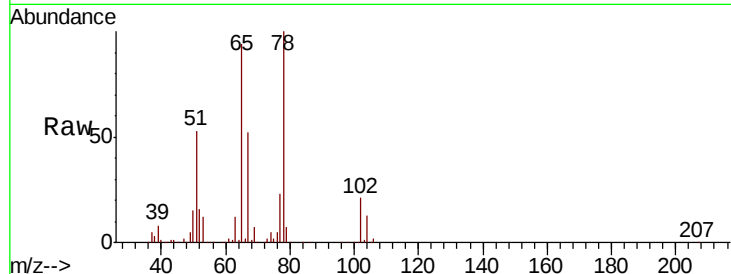
#33
 1,2-Dichloroethane-d4
 Concen: 19.929 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.5	0.0	110.4	

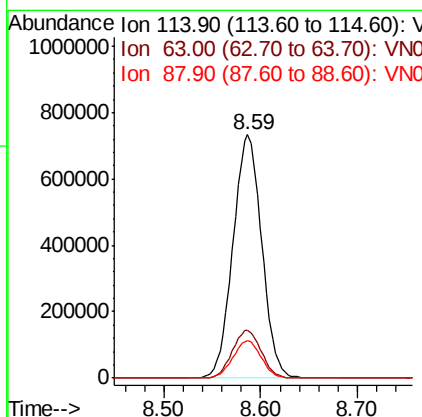
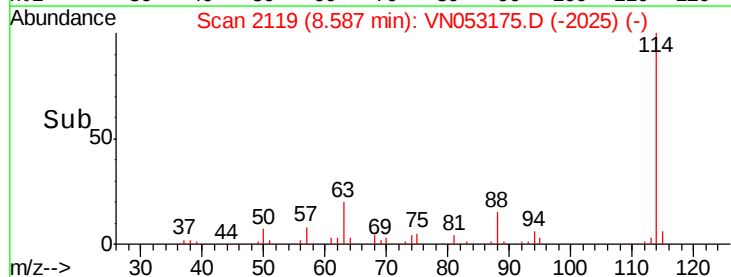
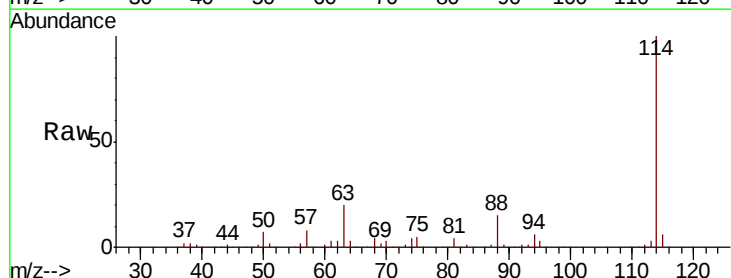
Manual Integrations
 APPROVED

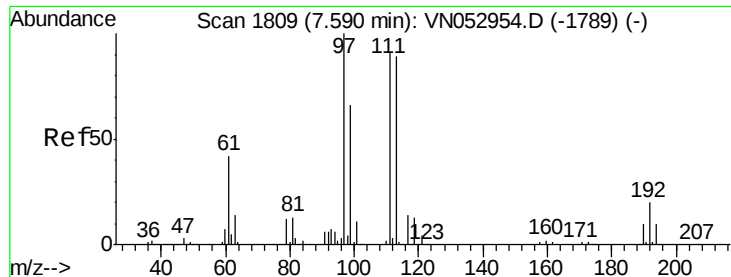
MMDadoda
 12/26/2018 10:53:29 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.7	0.0	39.8	
88	15.4	0.0	31.0	





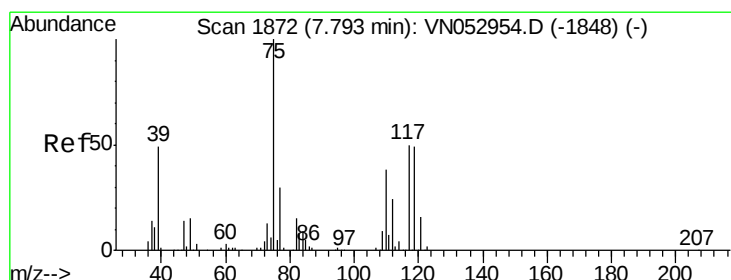
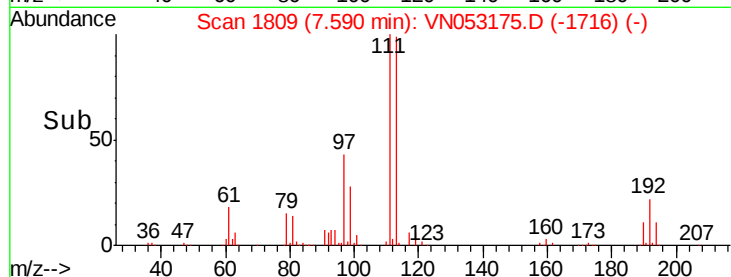
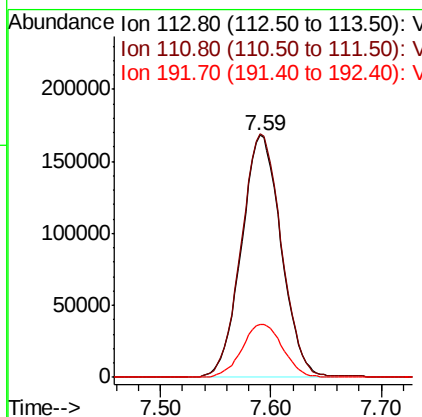
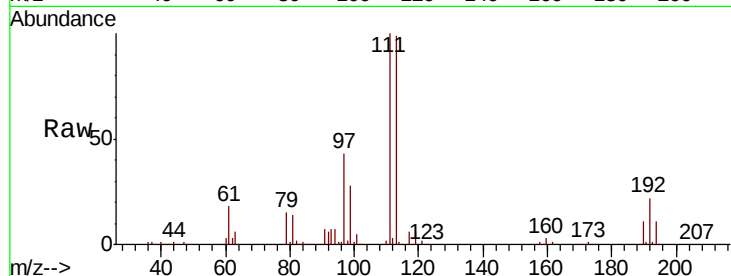
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.3	83.0	124.4	
192	22.5	17.5	26.3	

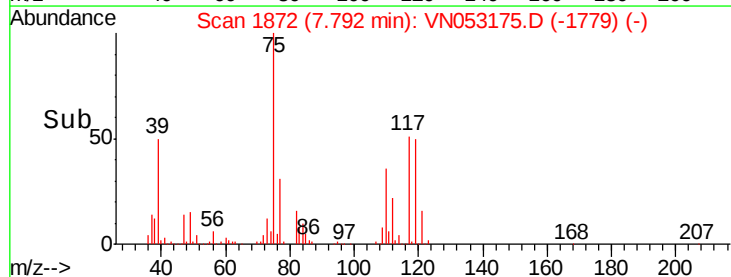
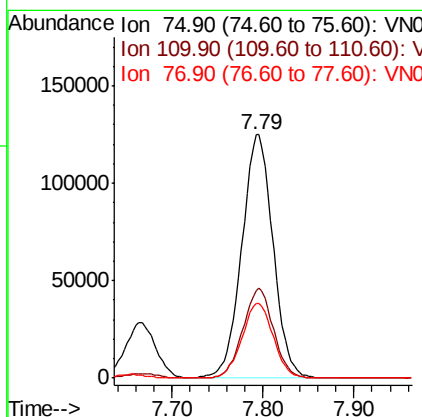
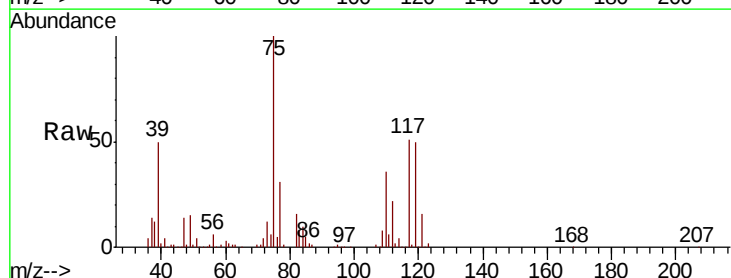
Manual Integrations
 APPROVED

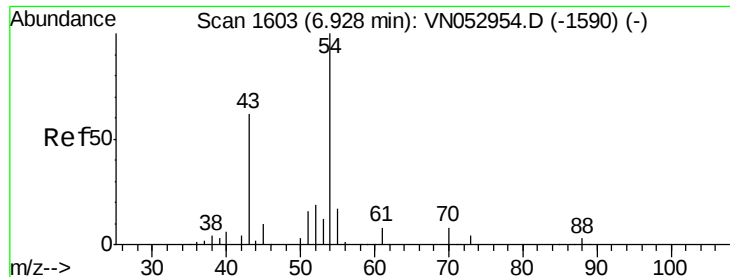
MMDadoda
 12/26/2018 10:53:29 AM



#36
 1,1-Dichloropropene
 Concen: 20.458 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.3	18.2	54.6	
77	31.0	24.9	37.3	





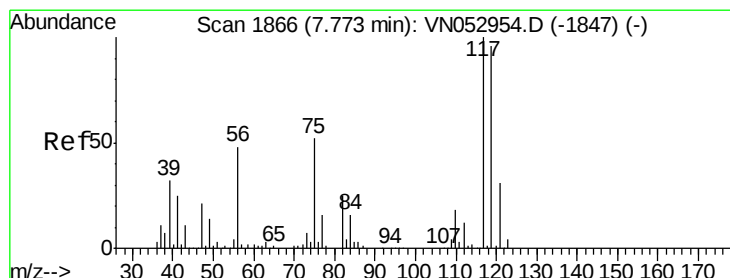
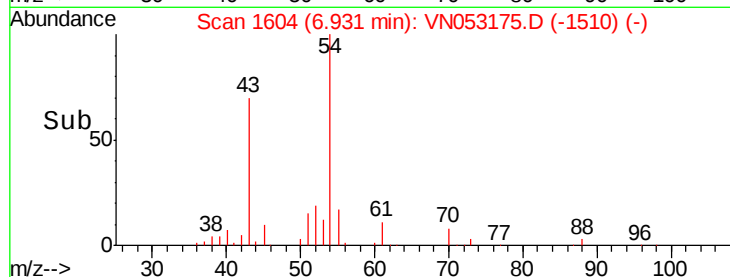
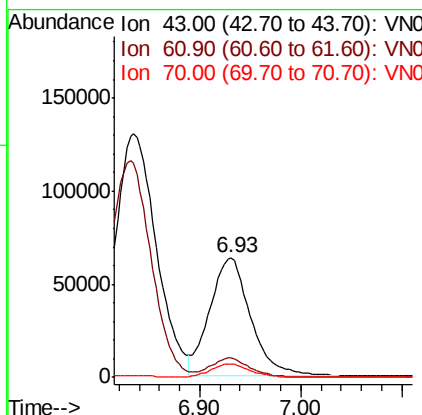
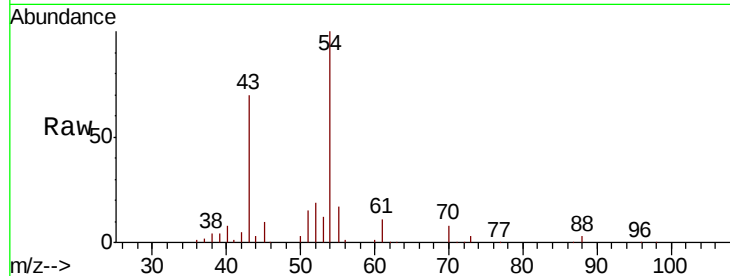
#37
Ethyl Acetate
Concen: 22.022 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.8	17.6
70	11.1	8.4	12.6

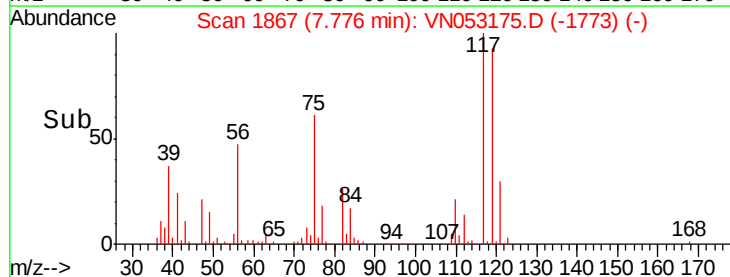
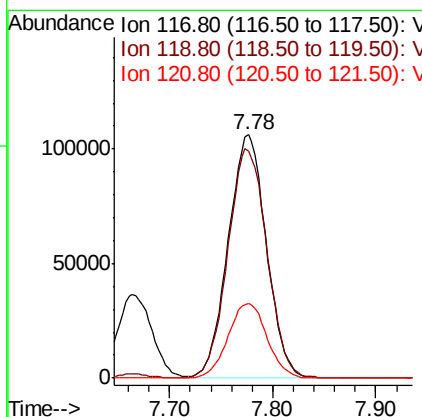
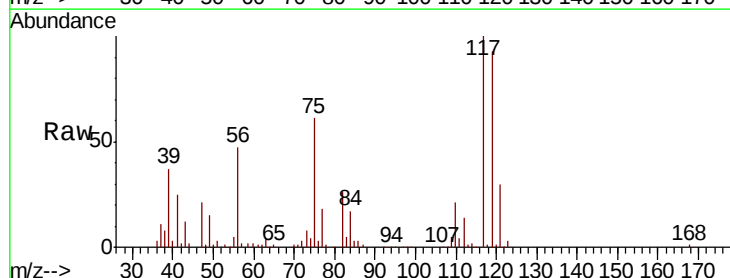
Manual Integrations
APPROVED

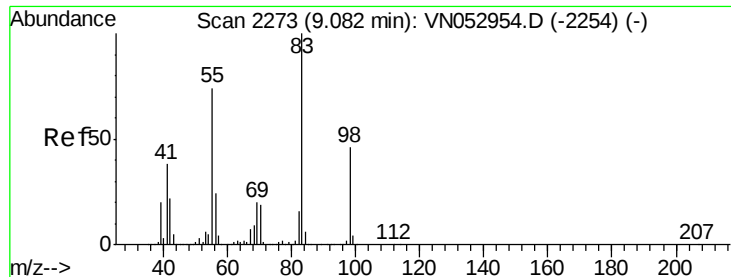
MMDadoda
12/26/2018 10:53:29 AM



#38
Carbon Tetrachloride
Concen: 20.513 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.4	77.1	115.7
121	30.5	24.9	37.3





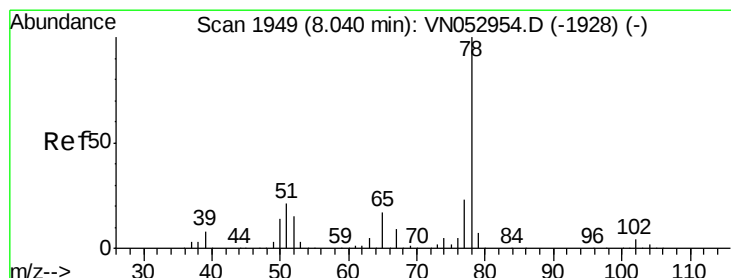
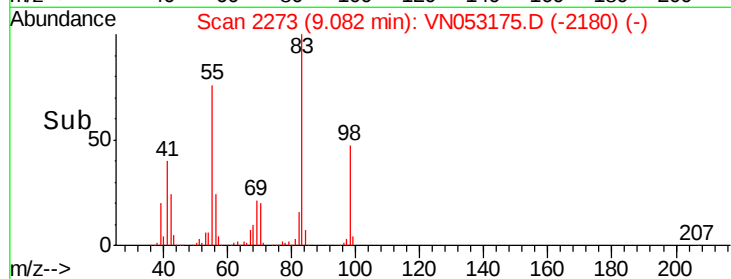
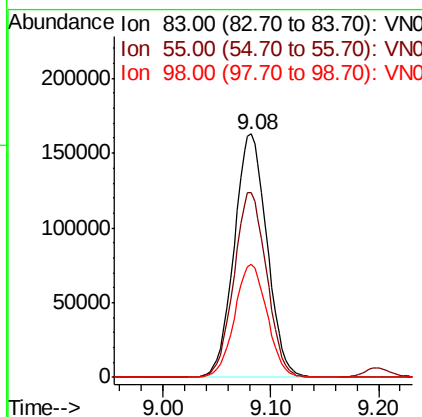
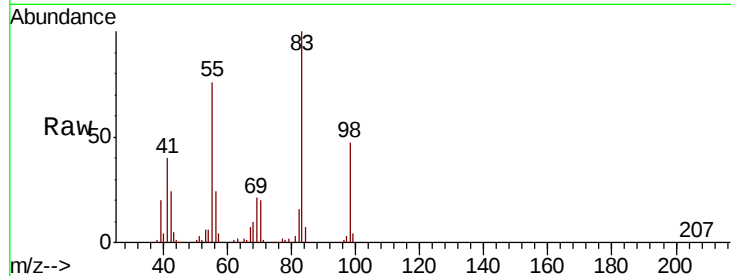
#39
Methvlcvclohexane
Concen: 19.546 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.0	61.3	91.9
98	46.6	37.0	55.4

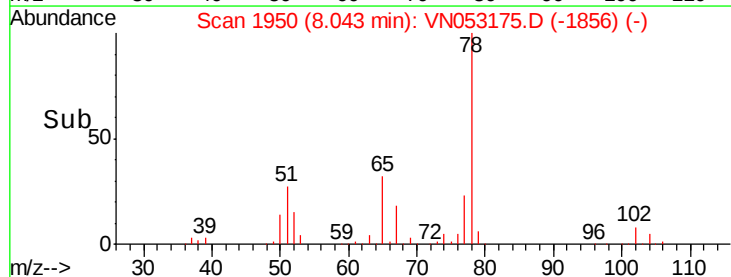
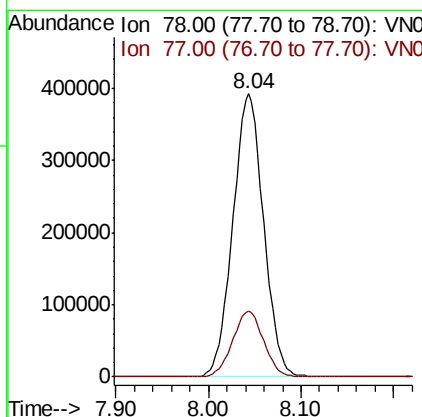
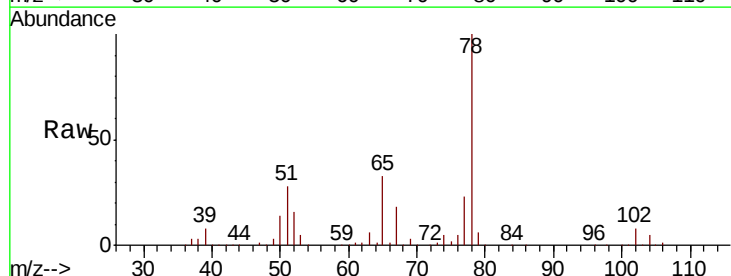
Manual Integrations
APPROVED

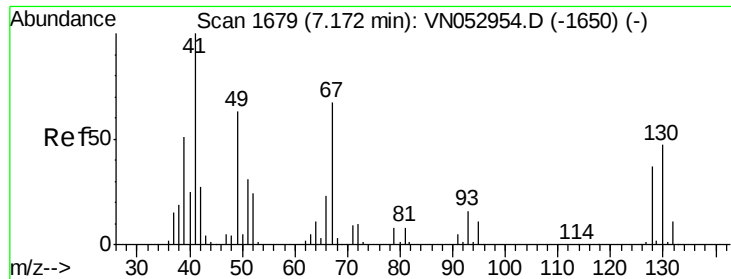
MMDadoda
12/26/2018 10:53:29 AM



#40
Benzene
Concen: 20.894 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.5	27.7





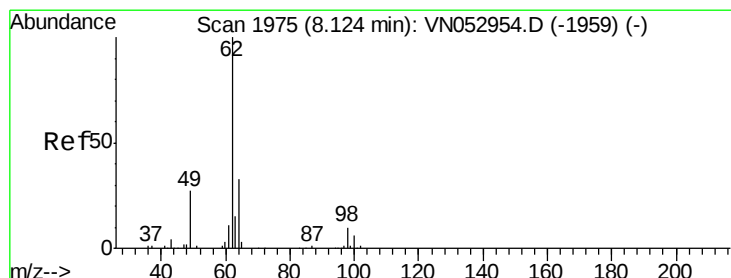
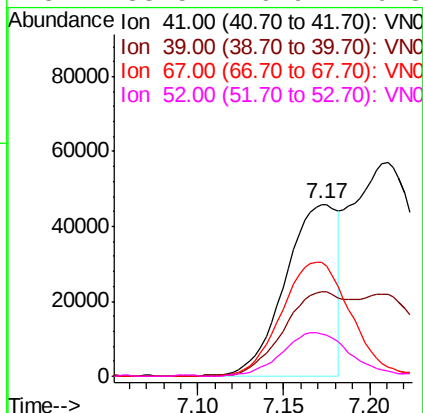
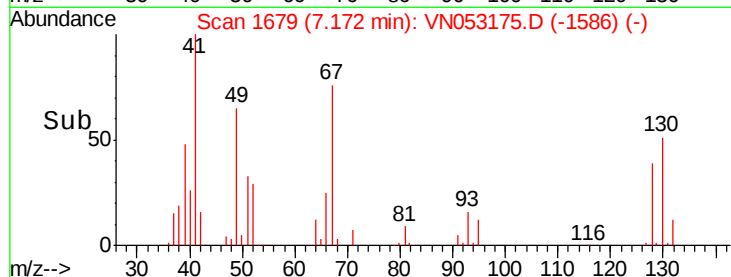
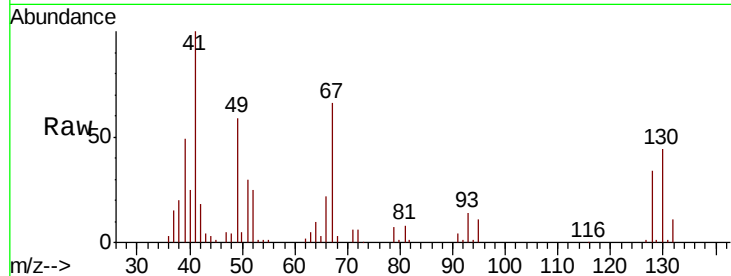
#41
Methacrylonitrile
Concen: 20.820 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	41	Resp	97381
Ion Ratio	Lower	Upper	
41	100		
39	62.2	48.0	72.0
67	88.0	70.3	105.5
52	33.5	26.9	40.3

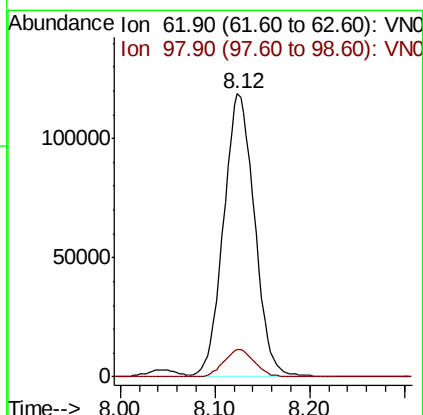
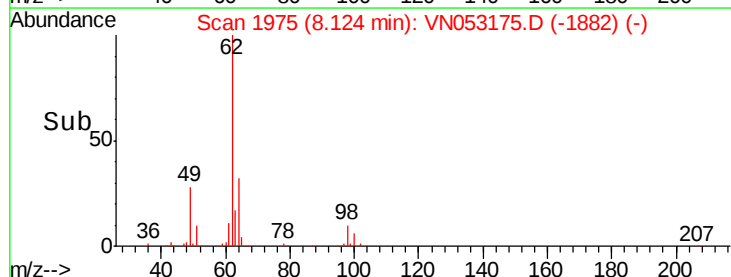
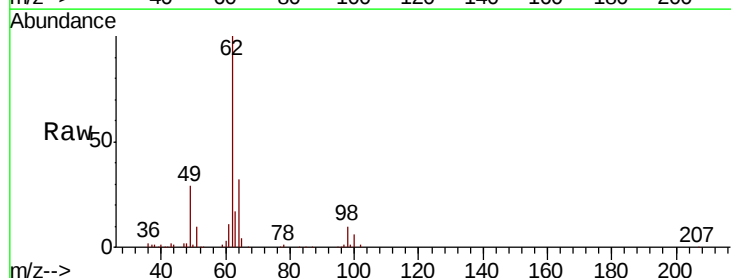
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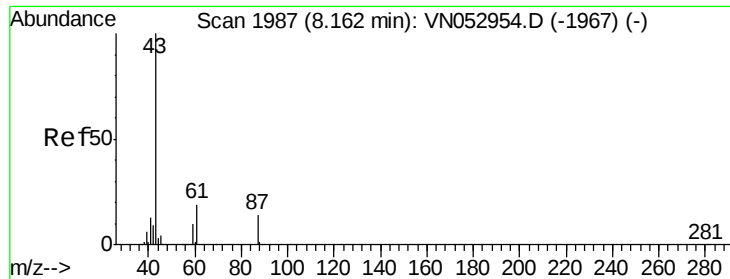
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#42
1,2-Dichloroethane
Concen: 21.093 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	62	Resp	268777
Ion Ratio	Lower	Upper	
62	100		
98	9.6	0.0	19.0





#43

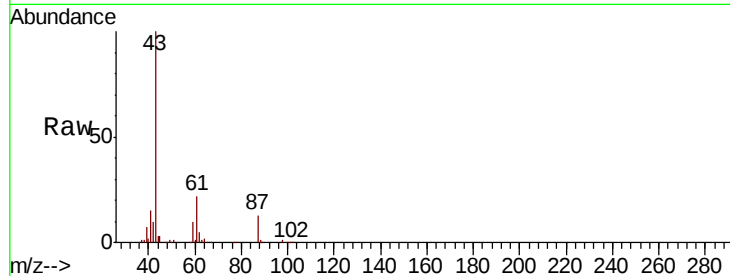
Isopropyl Acetate
 Concen: 19.945 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.1	22.9	34.3
87	13.6	10.6	15.8

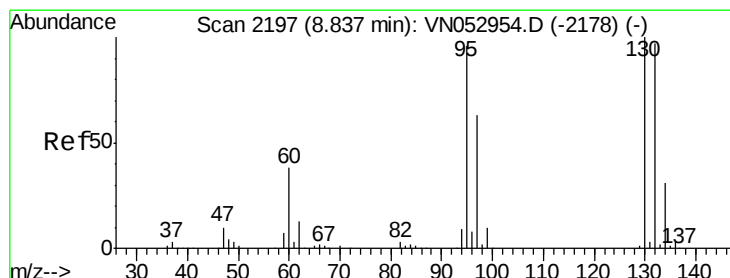
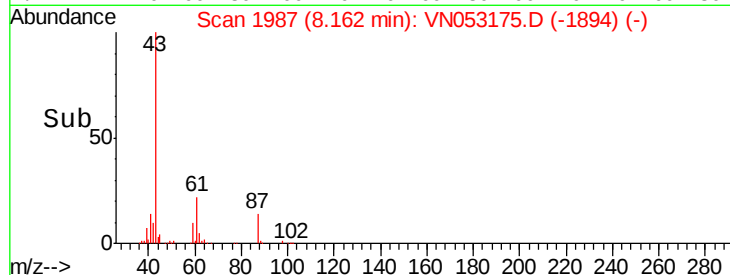
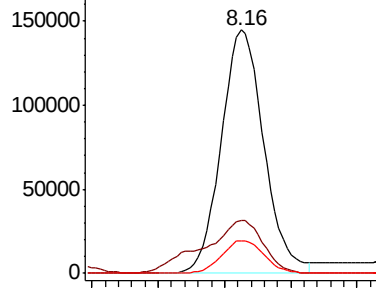
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Abundance

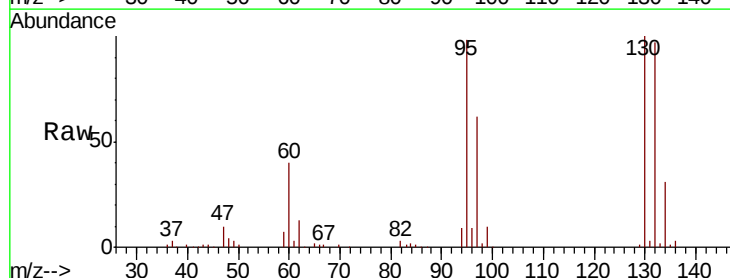
Ion 43.00 (42.70 to 43.70): VN052954.D (-1967) (-)



#44

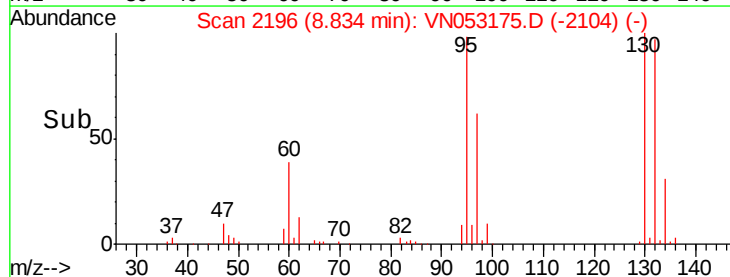
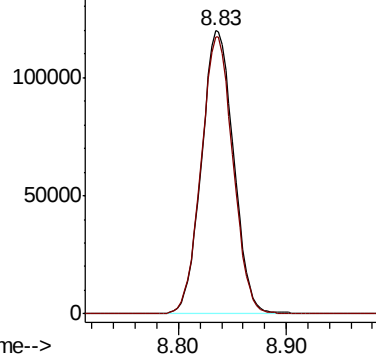
Trichloroethene
 Concen: 19.937 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

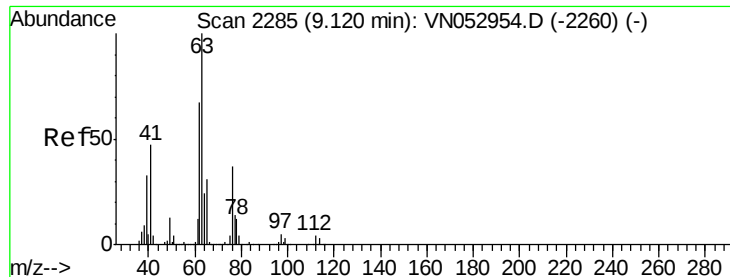
Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.6	0.0	197.8



Abundance

Ion 129.80 (129.50 to 130.50): VN052954.D (-2178) (-)





#45

1,2-Dichloropropane

Concen: 21.603 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VN1224MBS01

Tot Ion: 63 Resp: 242709

Ion Ratio Lower Upper

63 100

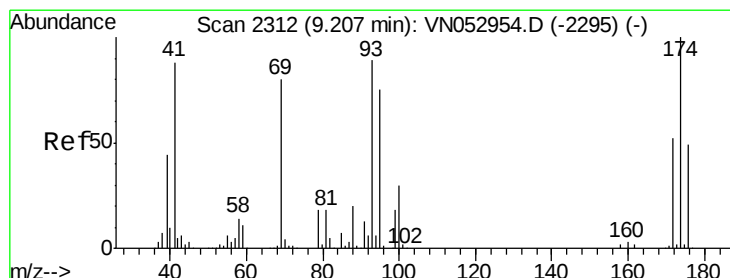
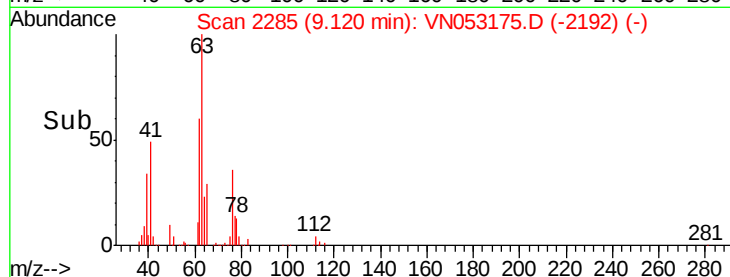
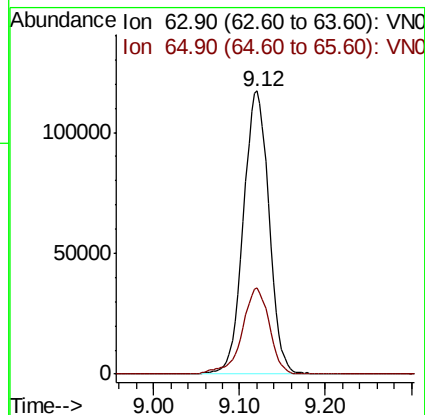
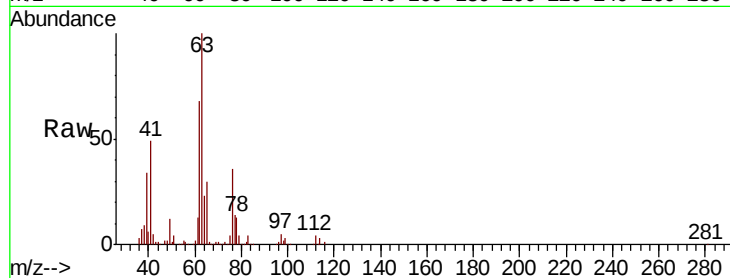
65 30.3 24.6 37.0

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#46

Dibromomethane

Concen: 20.804 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

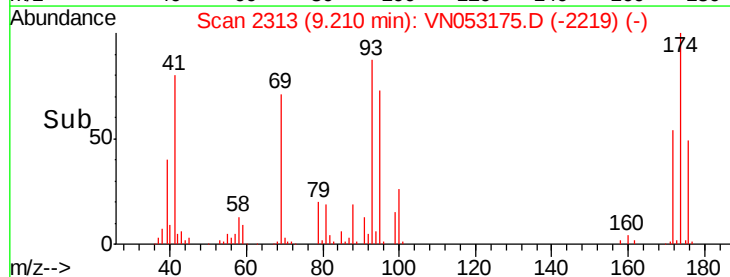
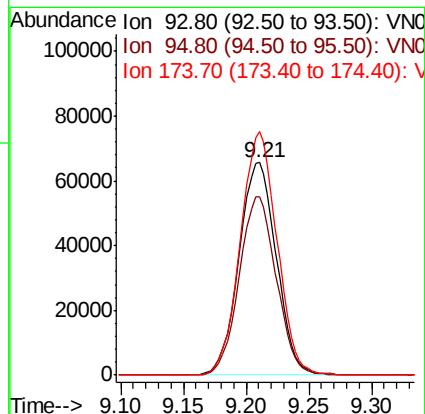
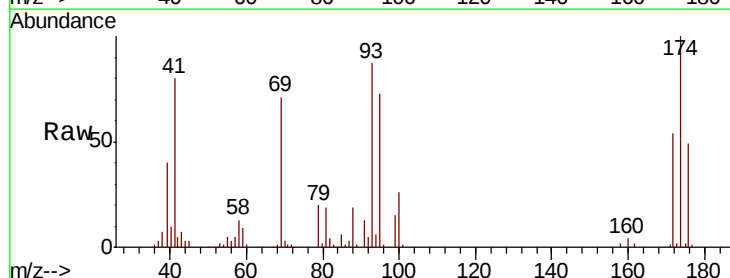
Tgt Ion: 93 Resp: 136159

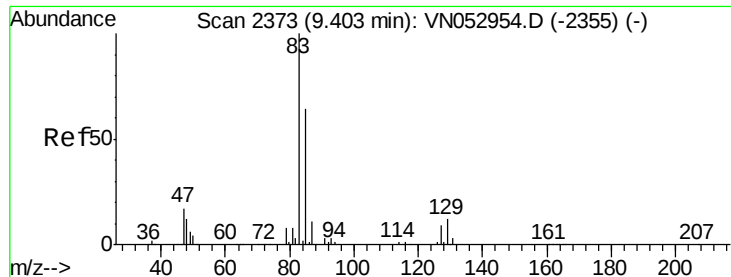
Ion Ratio Lower Upper

93 100

95 83.0 67.8 101.6

174 112.3 89.0 133.4





#47

Bromodichloromethane

Concen: 20.603 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

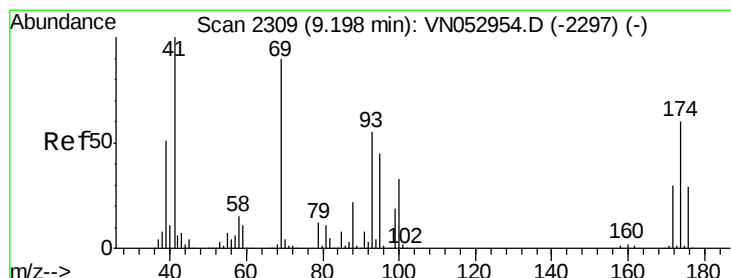
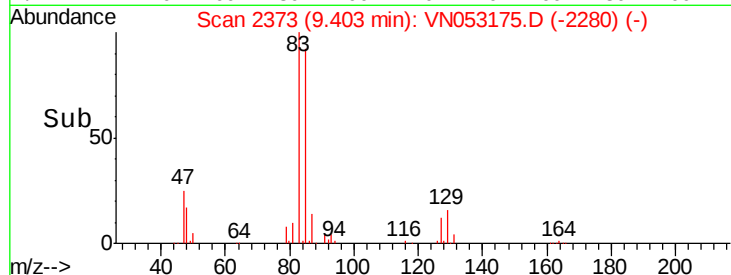
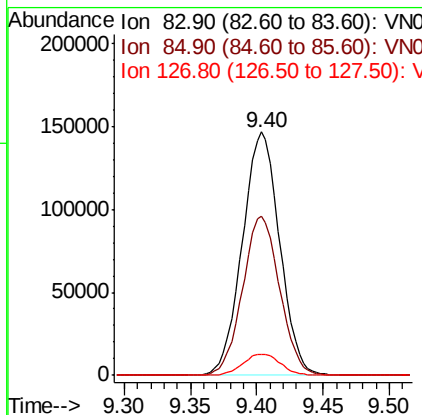
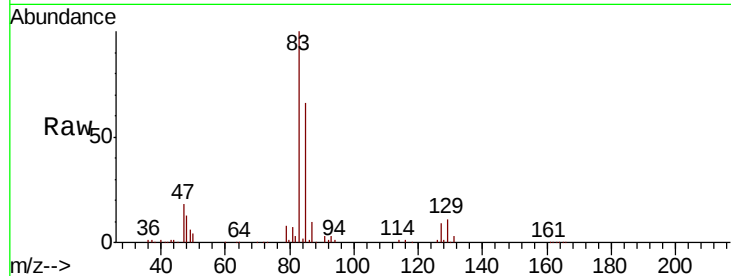
ClientSampleId :

VN1224MBS01

Tot Ion:	83	Resp:	286636
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.6	77.4
127	8.8	7.1	10.7

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#48

Methyl methacrylate

Concen: 20.958 ug/l

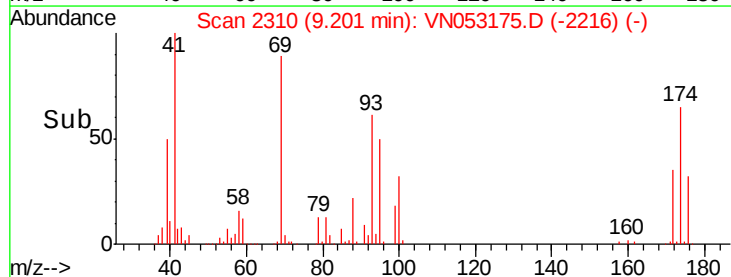
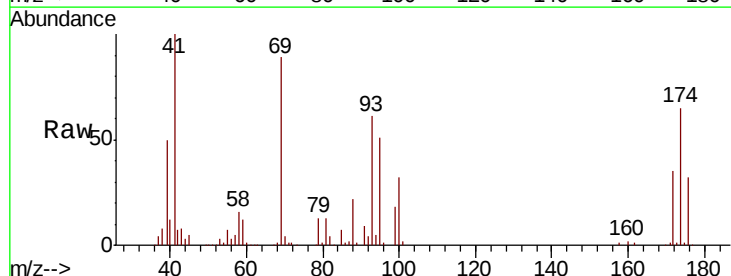
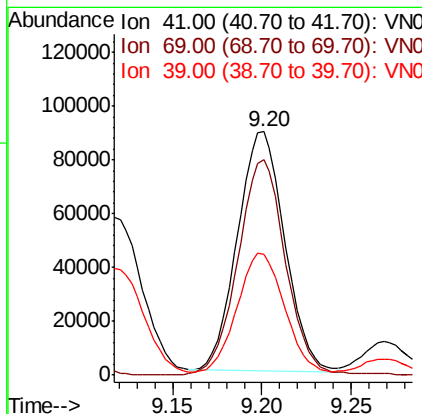
RT: 9.20 min Scan# 2310

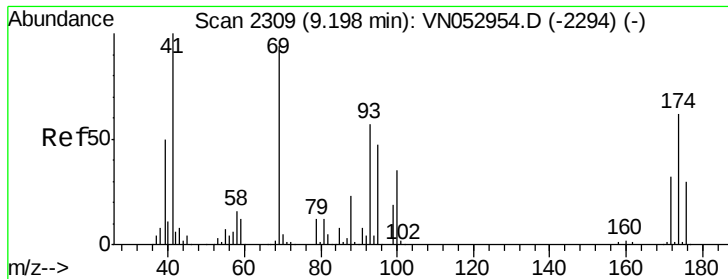
Delta R.T. 0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Tgt Ion:	41	Resp:	164632
Ion	Ratio	Lower	Upper
41	100		
69	90.9	72.2	108.2
39	51.7	41.9	62.9





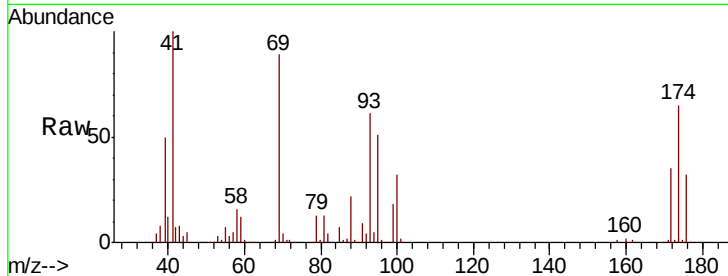
#49
1,4-Dioxane
Concen: 414.506 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

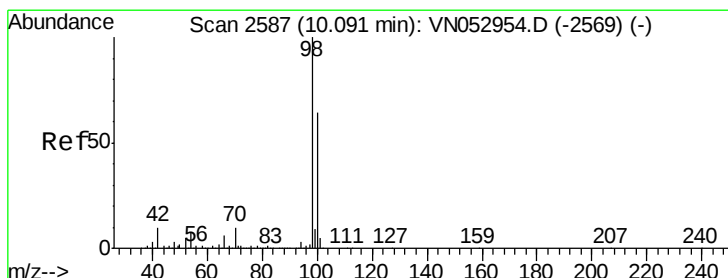
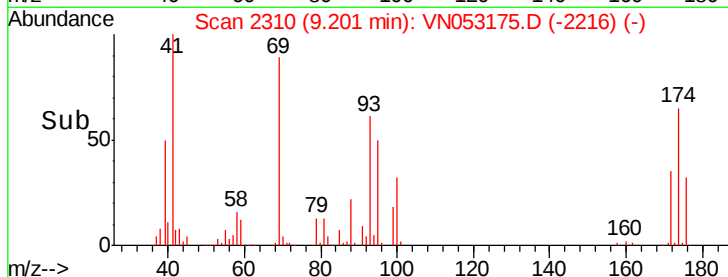
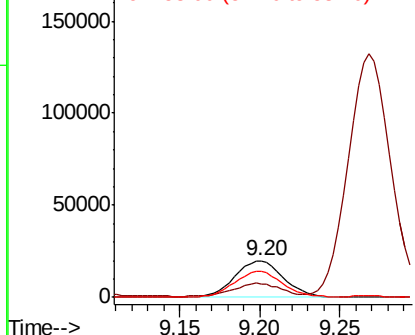
Tot Ion	Ratio	Lower	Upper
88	100		
43	35.1	26.6	40.0
58	71.2	58.4	87.6

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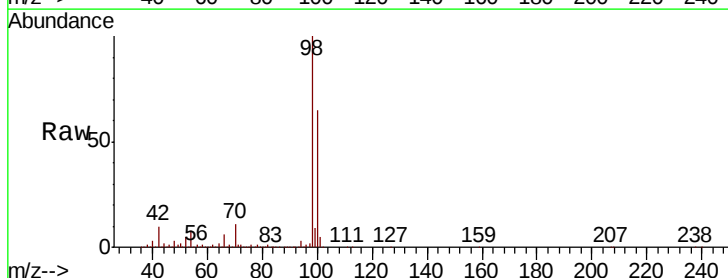


Abundance Ion 88.00 (87.70 to 88.70): VN052954.D (-2294) (-)
Ion 43.00 (42.70 to 43.70): VN052954.D (-2294) (-)
Ion 58.00 (57.70 to 58.70): VN052954.D (-2294) (-)

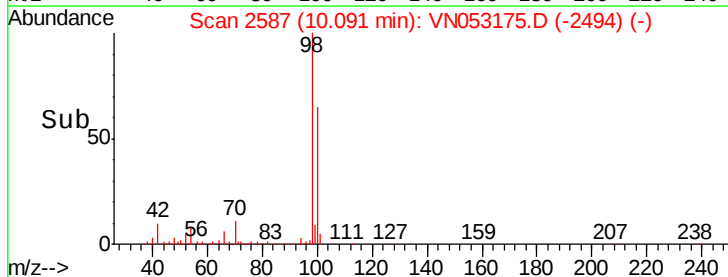
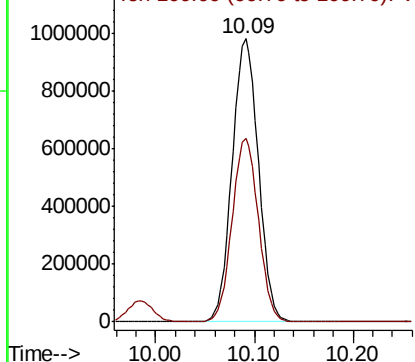


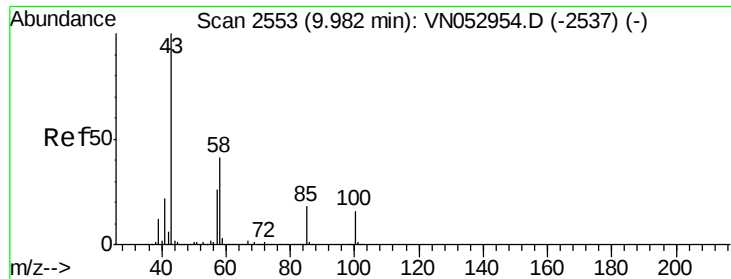
#50
Toluene-d8
Concen: 414.506 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.6	77.4



Abundance Ion 98.00 (97.70 to 98.70): VN052954.D (-2569) (-)
Ion 100.00 (99.70 to 100.70): VN052954.D (-2569) (-)





#51

4-Methyl-2-Pentanone

Concen: 112.253 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VN1224MBS01

Tot Ion: 43 Resp: 880010

Ion Ratio Lower Upper

43 100

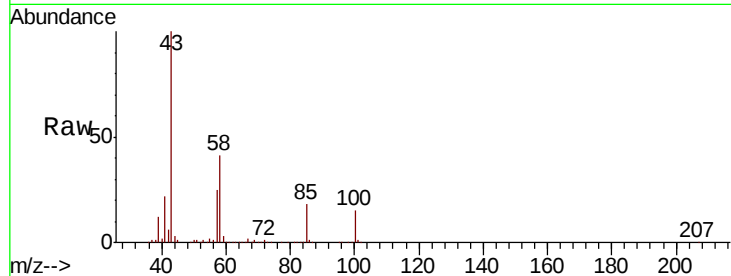
58 40.7 32.2 48.4

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Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN052954.D (-2537) (-)

9.98

500000

400000

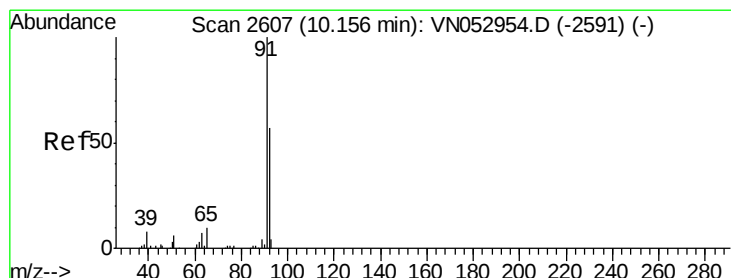
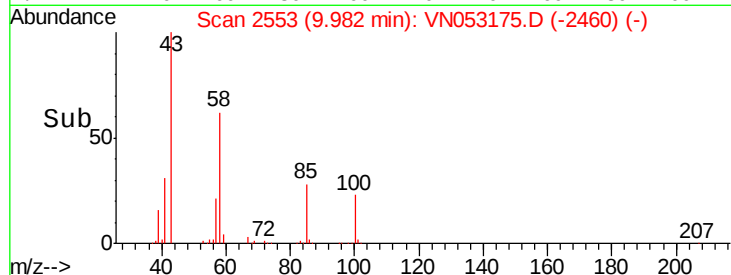
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 20.827 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053175.D

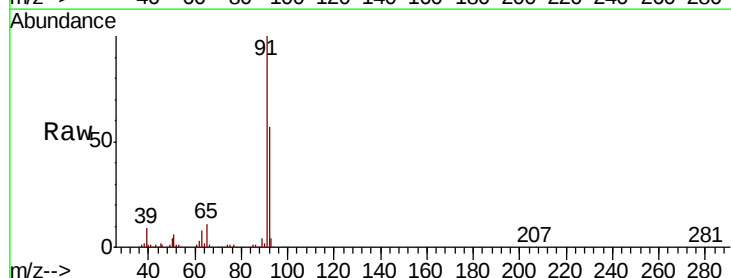
Acq: 24 Dec 2018 10:47

Tgt Ion: 92 Resp: 556801

Ion Ratio Lower Upper

92 100

91 175.7 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN052954.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VN052954.D (-2591) (-)

10.16

600000

500000

400000

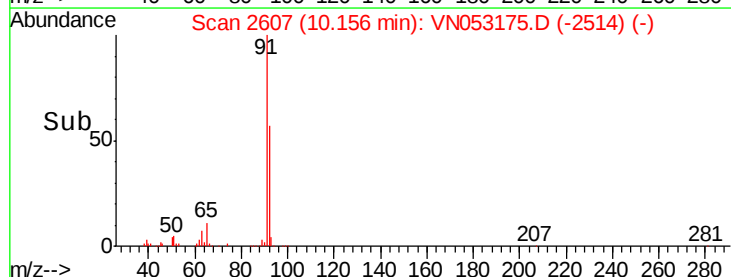
300000

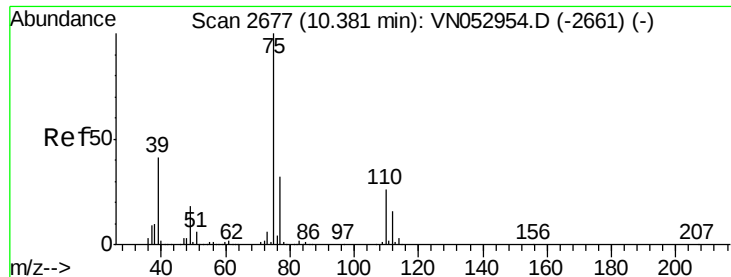
200000

100000

0

Time-->





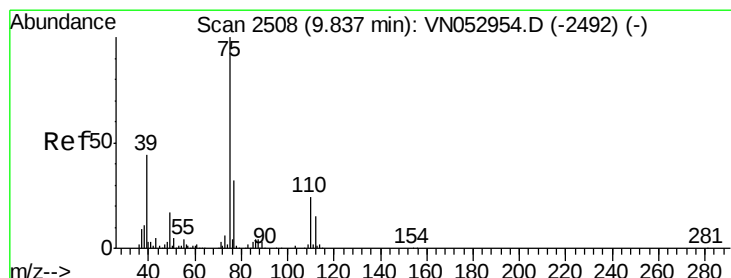
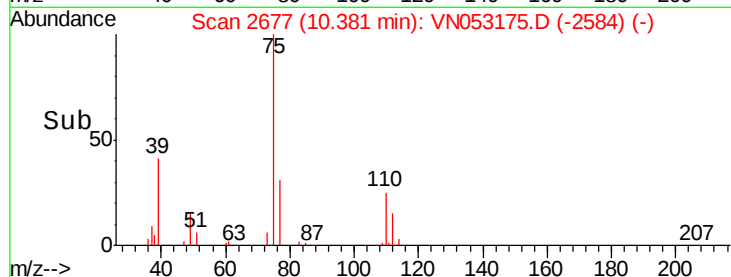
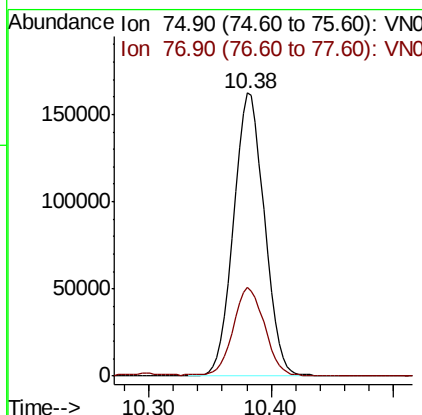
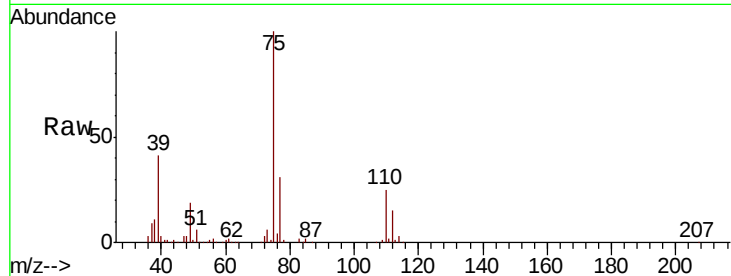
#53
t-1,3-Dichloropropene
Concen: 19.455 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.6	38.4

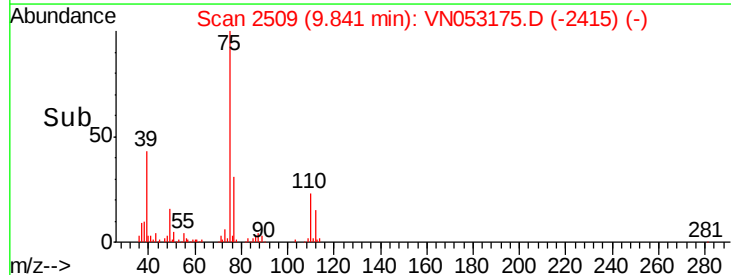
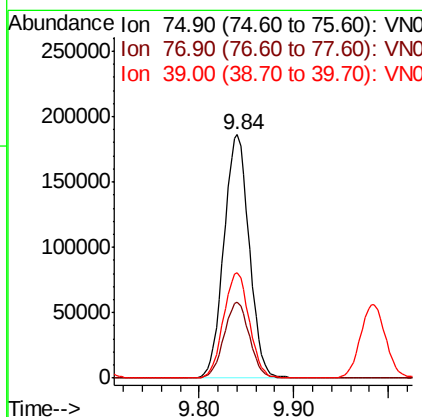
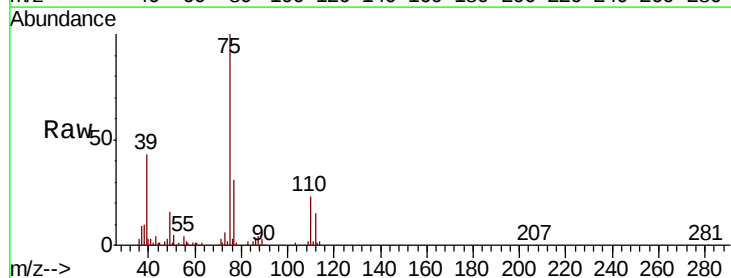
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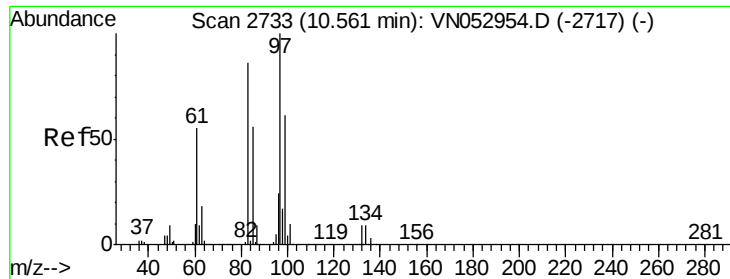
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 20.666 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.8	38.8
39	43.2	34.8	52.2





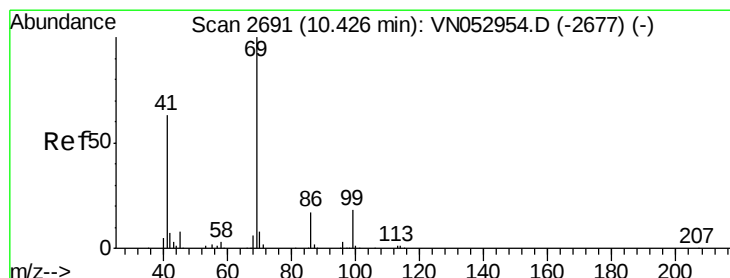
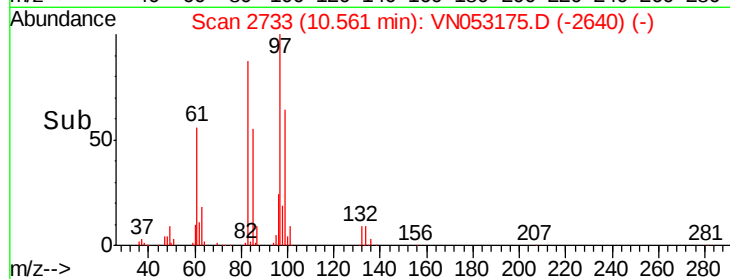
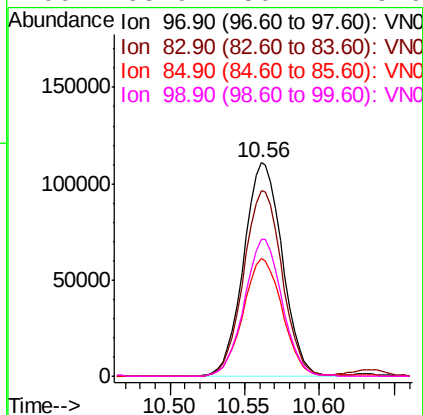
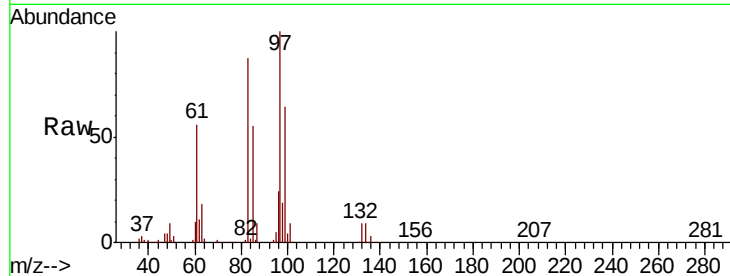
#55
 1,1,2-Trichloroethane
 Concen: 21.398 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224MBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.6	70.9	106.3
85	54.9	45.4	68.2
99	63.9	50.4	75.6

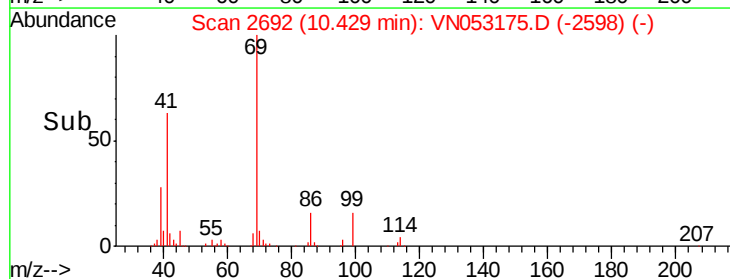
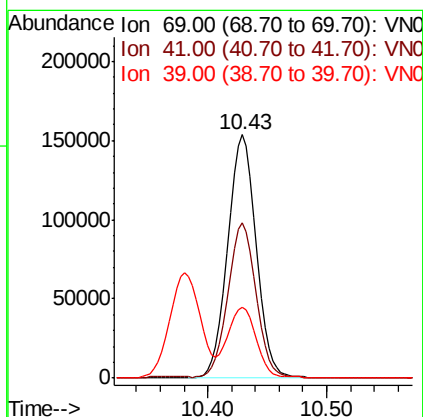
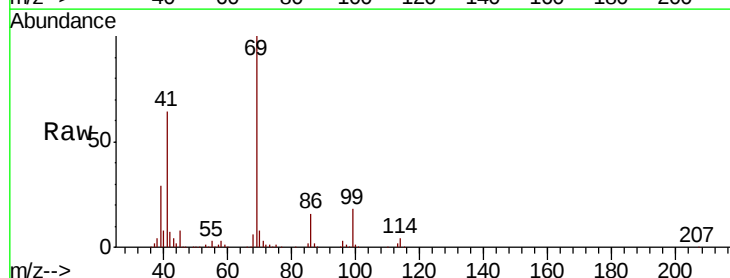
Manual Integrations
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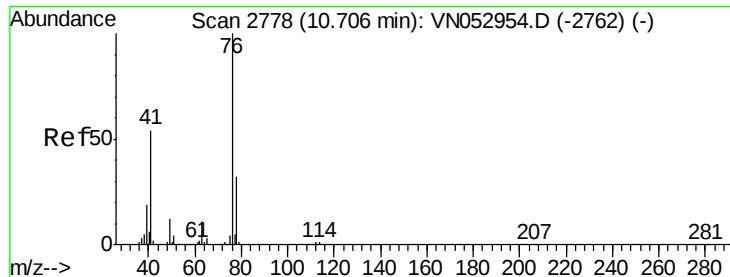
MMDadoda
 12/26/2018 10:53:29 AM



#56
 Ethyl methacrylate
 Concen: 20.718 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
69	100		
41	62.0	51.7	77.5
39	29.3	24.6	37.0





#57

1,3-Dichloropropane

Concen: 21.208 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VN1224MBS01

Tot Ion: 76 Resp: 339211

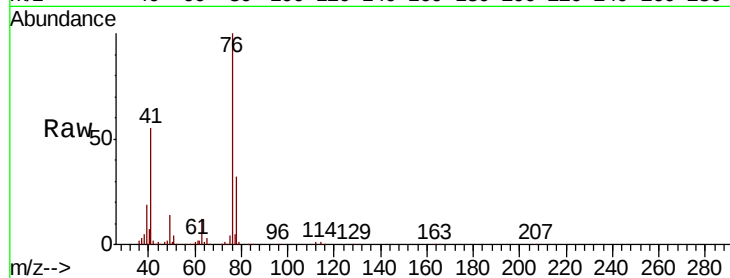
Ion Ratio Lower Upper

76 100

78 32.7 25.8 38.8

Manual Integrations
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12/26/2018 10:53:29 AM



Abundance Ion 75.90 (75.60 to 76.60): VN053175.D (-2685) (-)

Ion 77.90 (77.60 to 78.60): VN053175.D (-2685) (-)

10.71

200000

150000

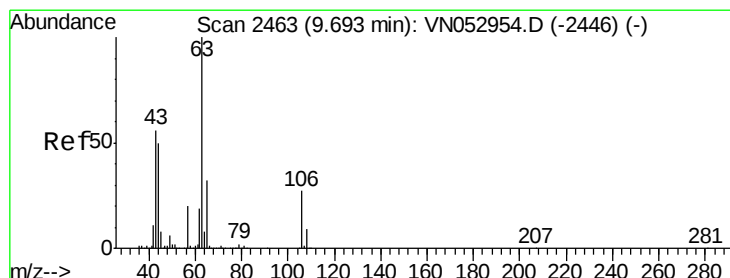
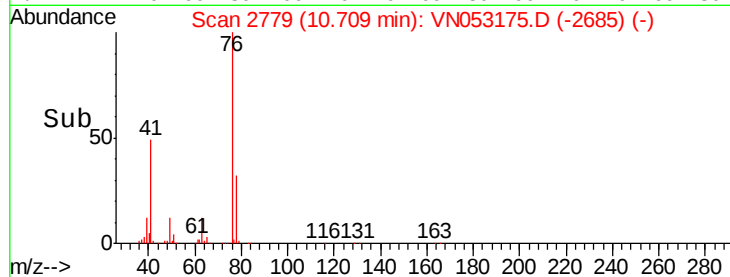
100000

50000

0

10.65 10.70 10.75

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 110.960 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053175.D

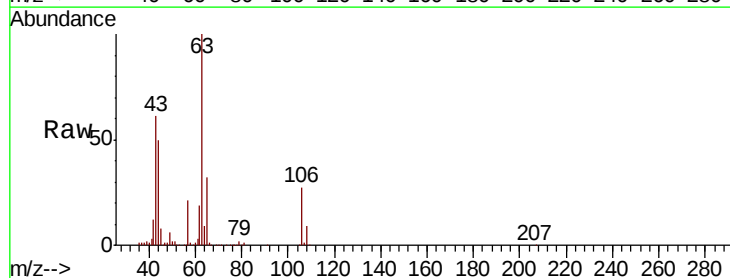
Acq: 24 Dec 2018 10:47

Tgt Ion: 63 Resp: 752026

Ion Ratio Lower Upper

63 100

106 26.8 21.0 31.6



Abundance Ion 62.90 (62.60 to 63.60): VN053175.D (-2370) (-)

Ion 105.90 (105.60 to 106.60): VN053175.D (-2370) (-)

9.70

500000

400000

300000

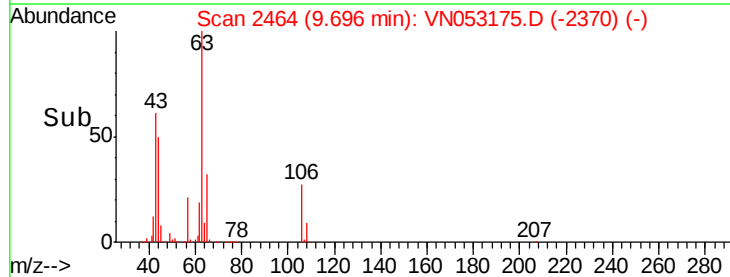
200000

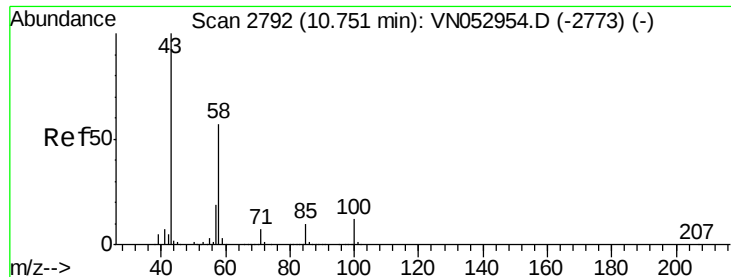
100000

0

9.60 9.70 9.80

Time-->





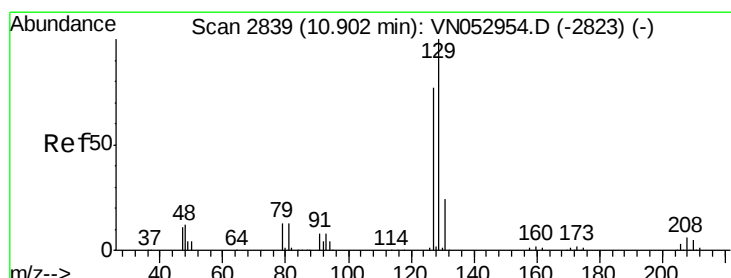
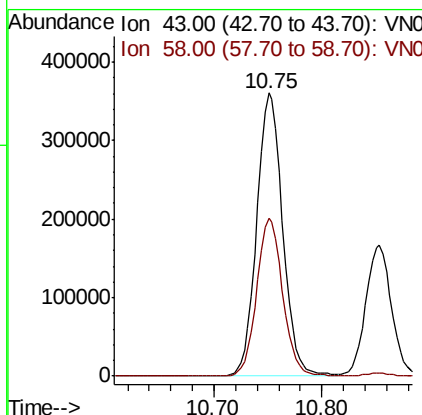
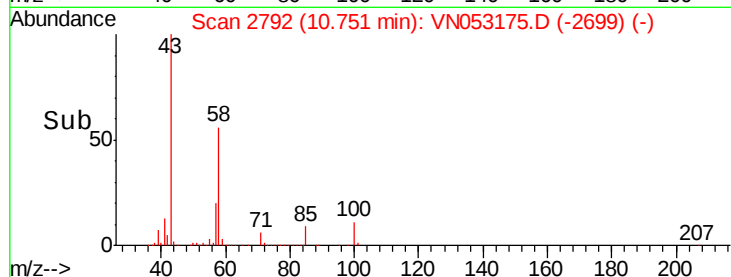
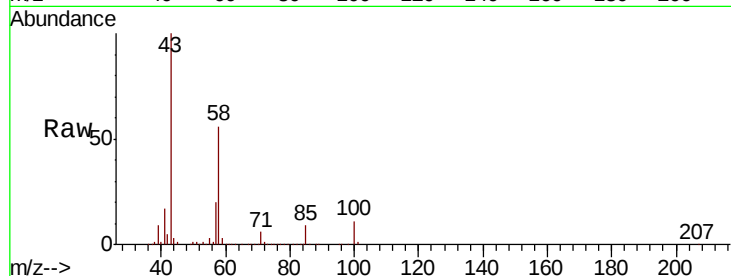
#59
2-Hexanone
Concen: 113.340 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion: 43 Resp: 601164
Ion Ratio Lower Upper
43 100
58 55.8 28.1 84.3

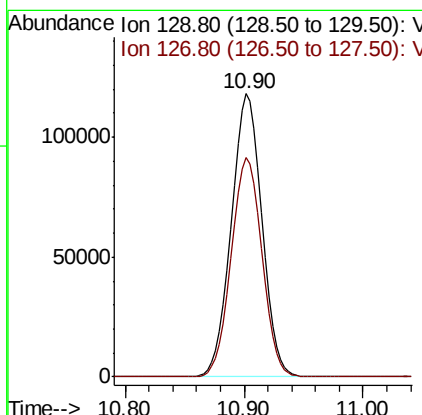
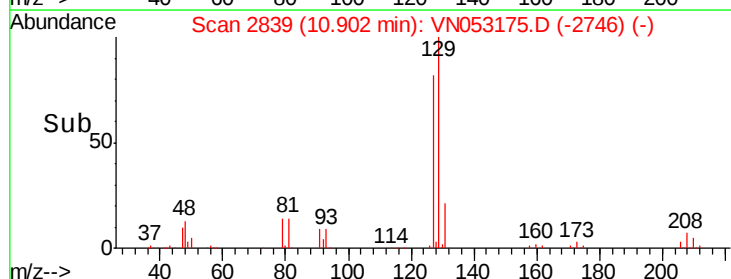
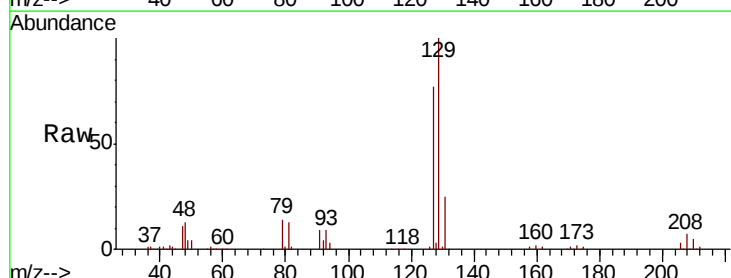
Manual Integrations
APPROVED

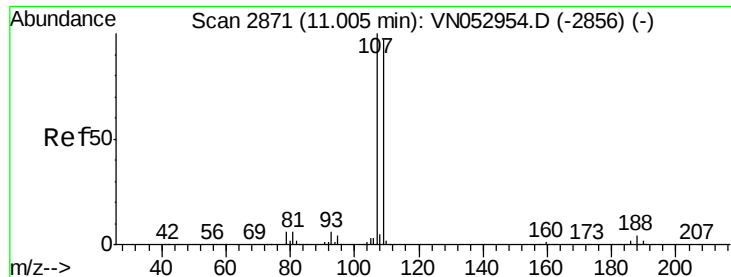
MMDadoda
12/26/2018 10:53:29 AM



#60
Dibromochloromethane
Concen: 19.772 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion: 129 Resp: 211094
Ion Ratio Lower Upper
129 100
127 77.9 38.6 116.0





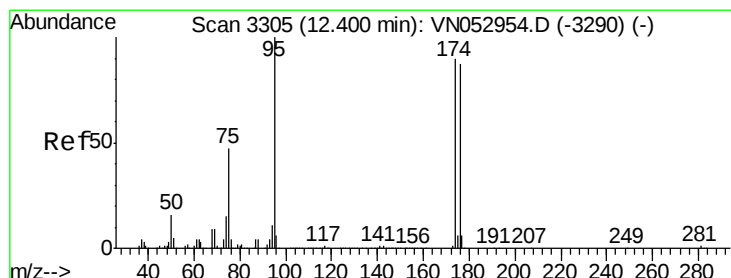
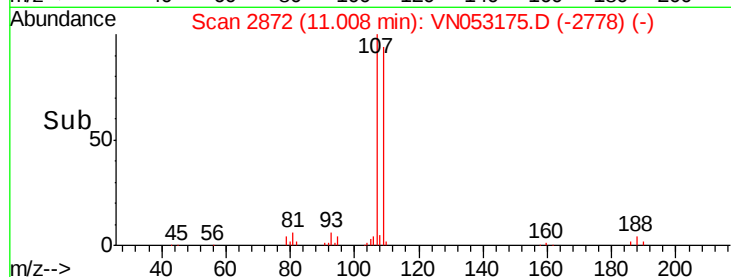
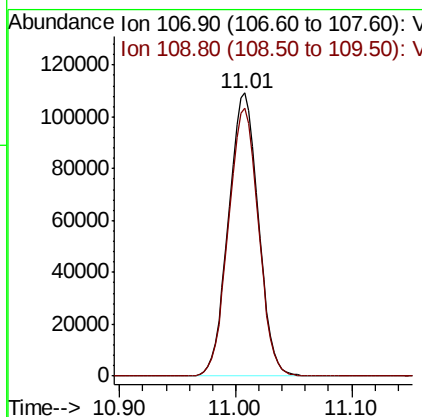
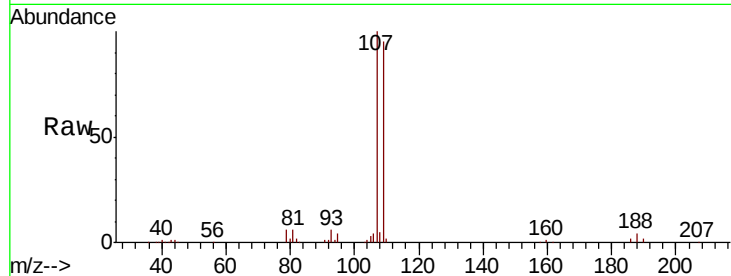
#61
1,2-Dibromoethane
Concen: 20.498 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.1	75.4	113.0

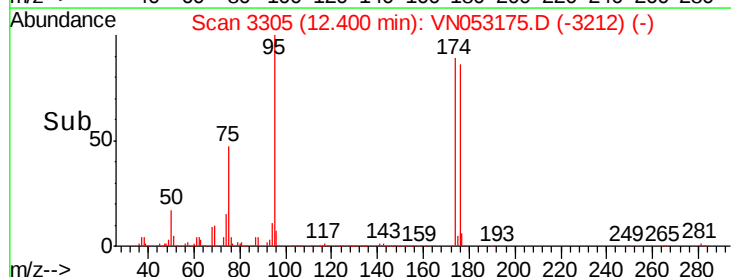
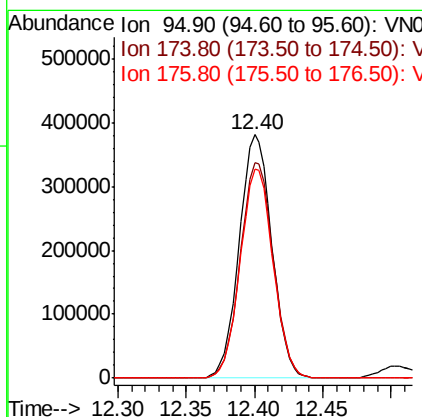
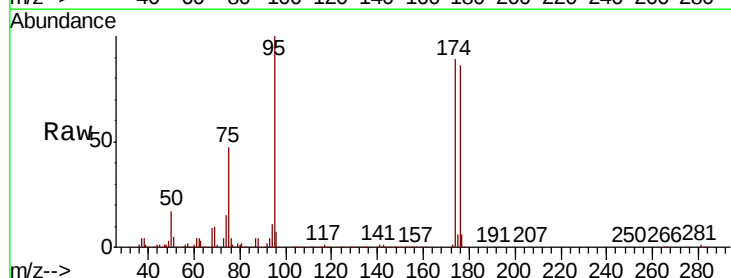
Manual Integrations
APPROVED

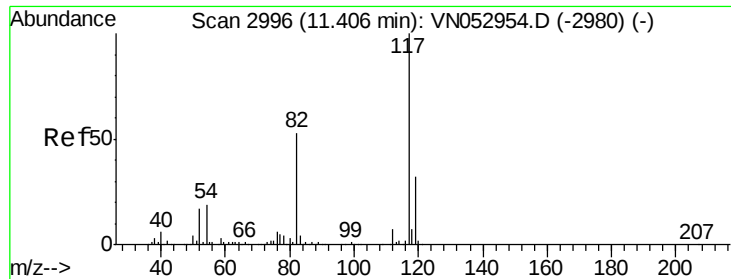
MMDadoda
12/26/2018 10:53:29 AM



#62
4-Bromofluorobenzene
Concen: 20.498 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.7	0.0	178.8
176	86.7	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: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VN1224MBS01

Tot Ion:117 Resp: 1338445

Ion Ratio Lower Upper

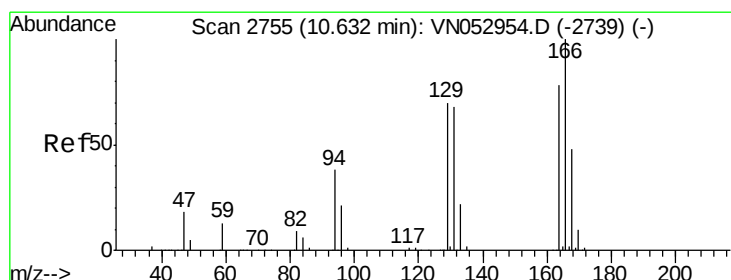
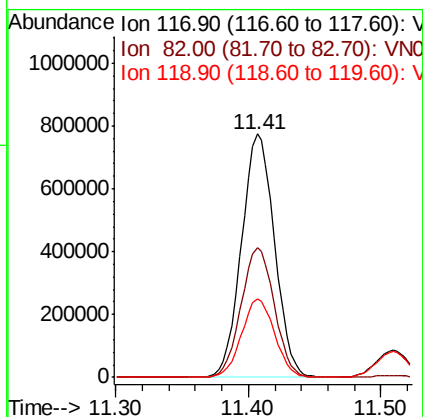
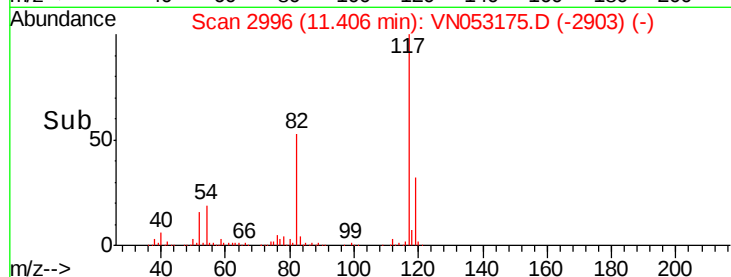
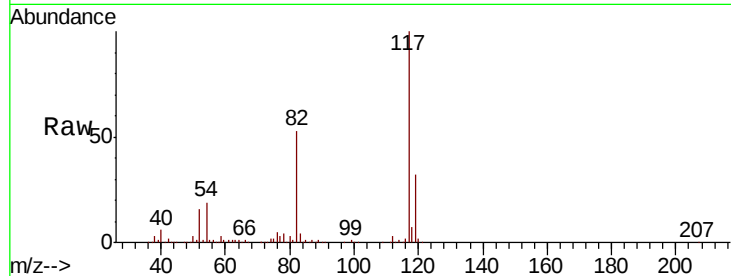
117 100

82 53.3 42.8 64.2

119 32.1 25.5 38.3

Manual Integrations
APPROVED

MMDadoda
12/26/2018 10:53:29 AM



#64

Tetrachloroethene

Concen: 18.852 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Tgt Ion:164 Resp: 273329

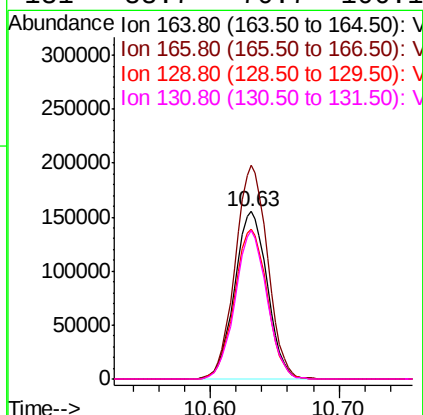
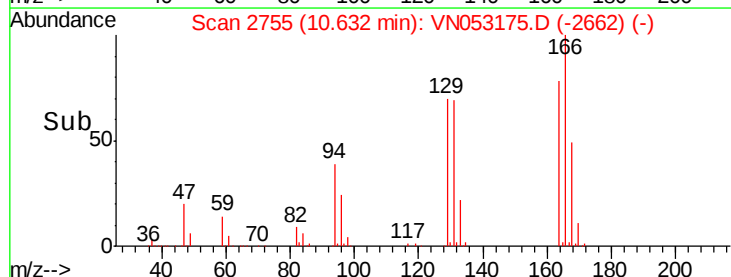
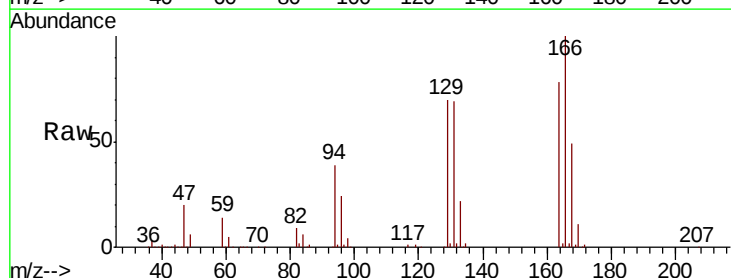
Ion Ratio Lower Upper

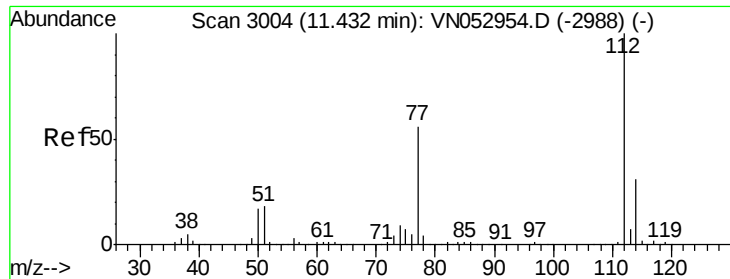
164 100

166 127.8 102.9 154.3

129 89.3 73.7 110.5

131 88.7 70.7 106.1





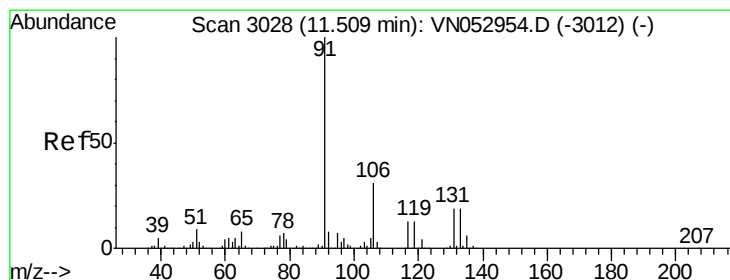
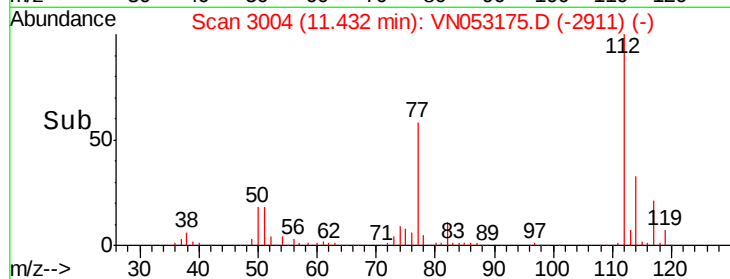
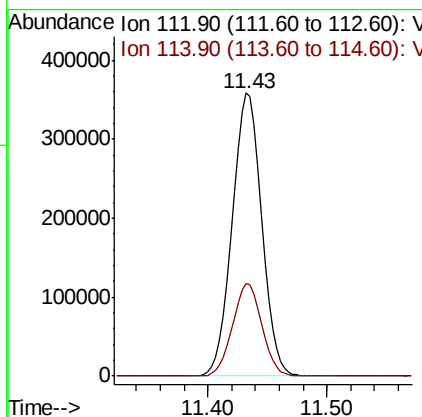
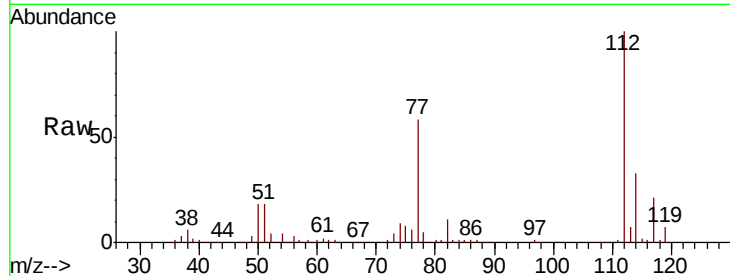
#65
Chlorobenzene
Concen: 20.766 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion:112 Resp: 616104
Ion Ratio Lower Upper
112 100
114 32.6 25.5 38.3

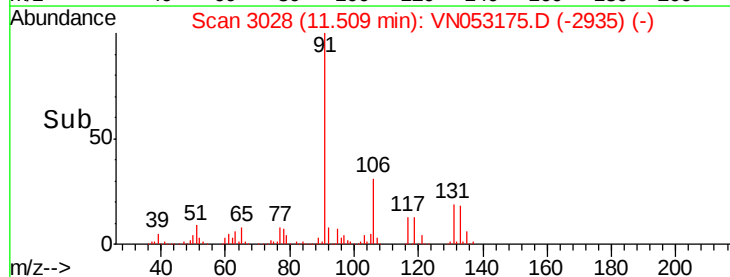
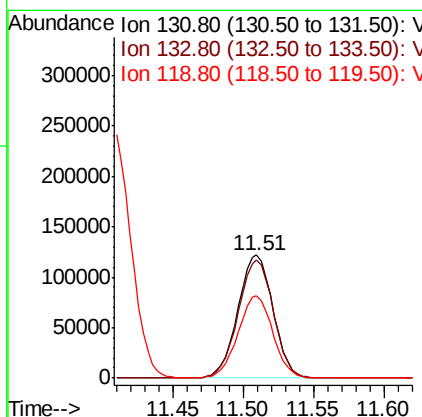
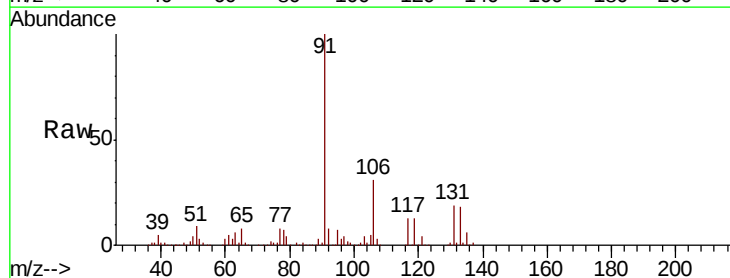
Manual Integrations
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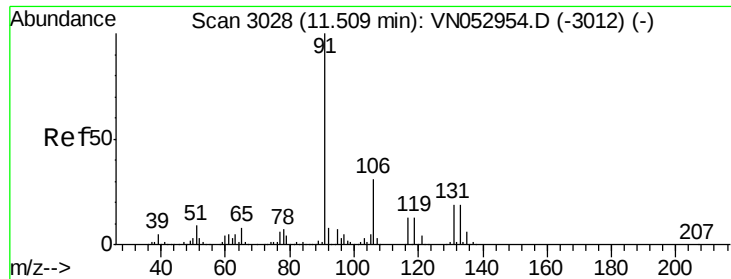
MMDadoda
12/26/2018 10:53:29 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.720 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion:131 Resp: 213780
Ion Ratio Lower Upper
131 100
133 95.9 47.6 142.9
119 66.2 33.3 99.8





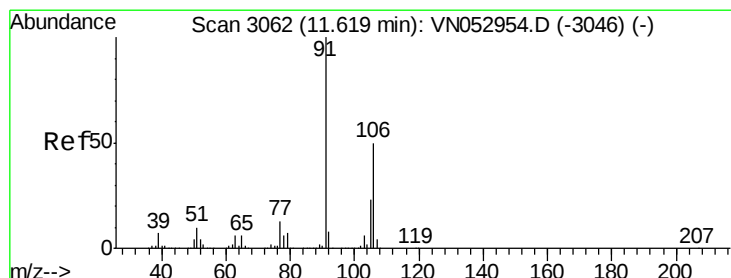
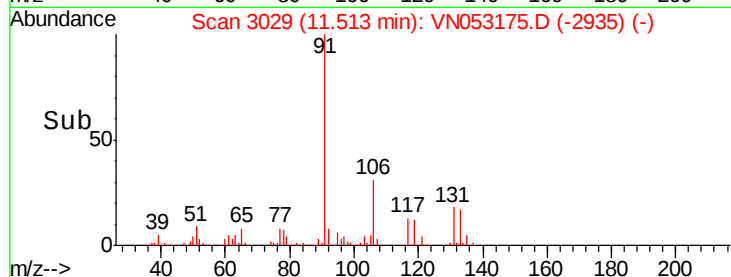
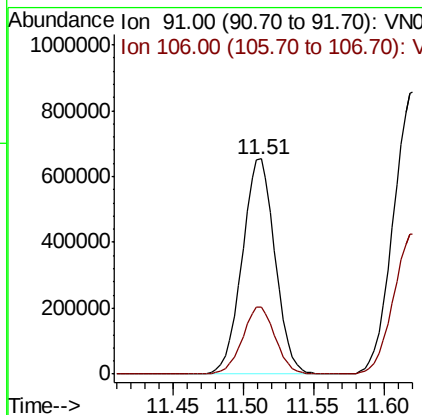
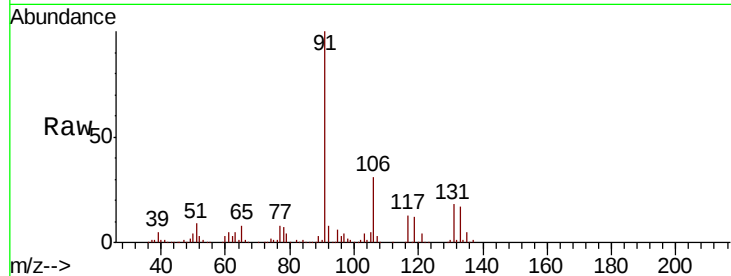
#67
Ethyl Benzene
Concen: 20.909 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion: 91 Resp: 1066844
Ion Ratio Lower Upper
91 100
106 31.0 24.9 37.3

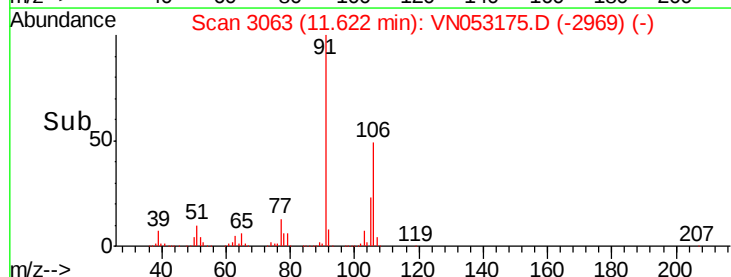
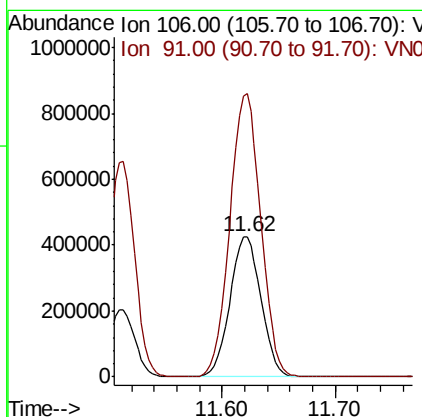
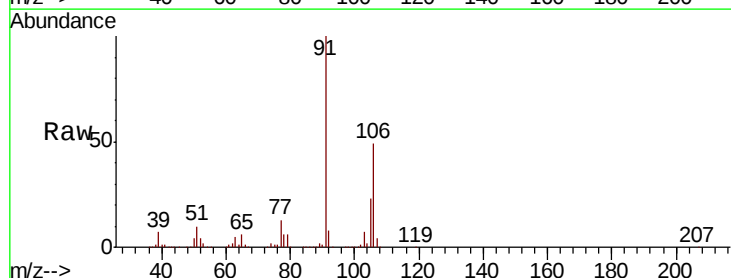
Manual Integrations
APPROVED

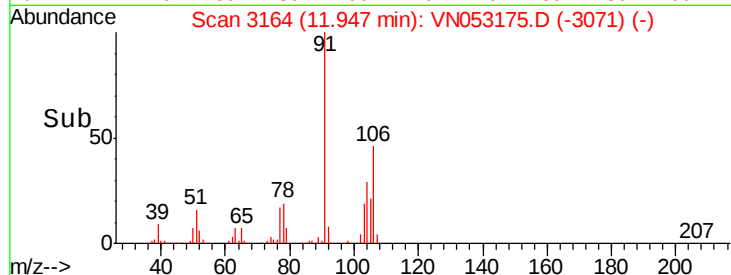
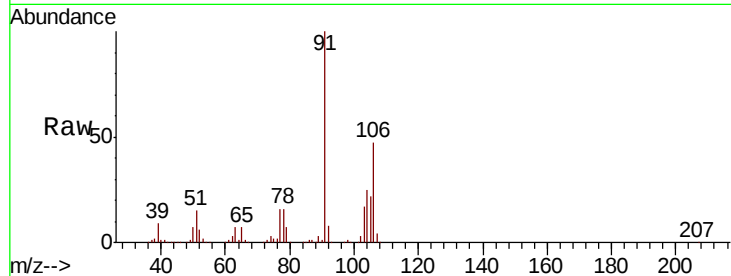
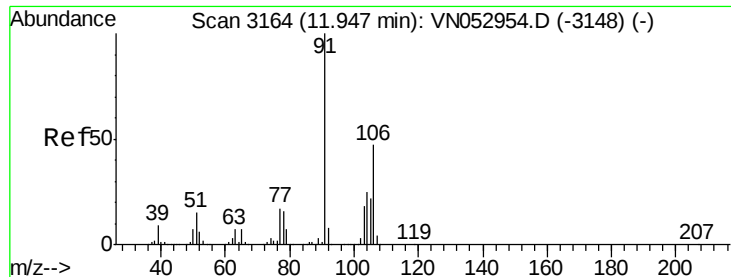
MMDadoda
12/26/2018 10:53:29 AM



#68
m/p-Xylenes
Concen: 41.800 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion: 106 Resp: 810791
Ion Ratio Lower Upper
106 100
91 201.7 162.2 243.4





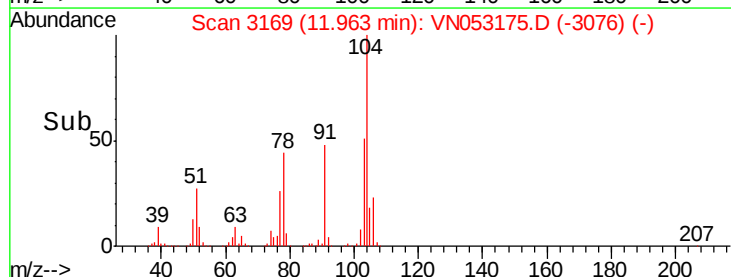
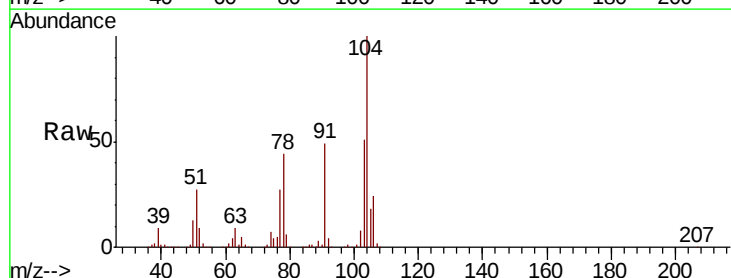
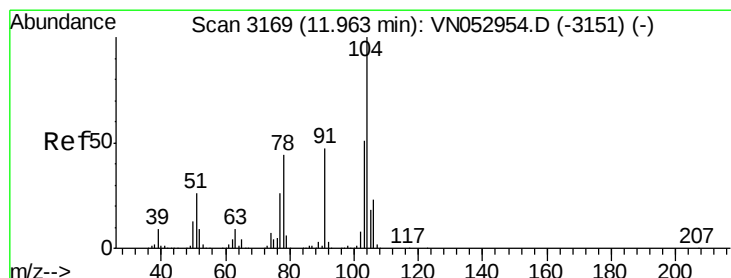
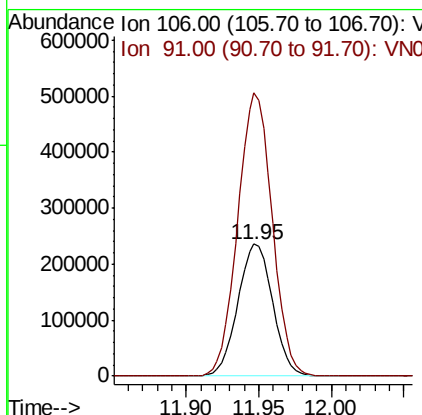
#69
o-Xylene
Concen: 21.121 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion:106 Resp: 393130
Ion Ratio Lower Upper
106 100
91 212.2 106.6 319.8

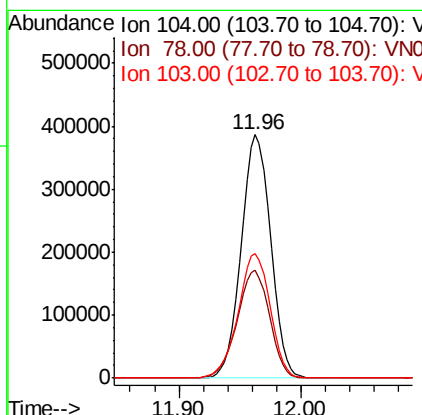
Manual Integrations
APPROVED

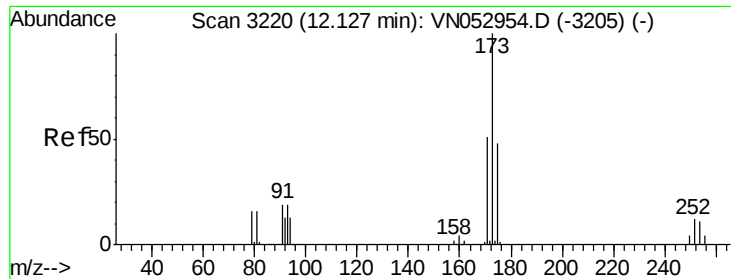
MMDadoda
12/26/2018 10:53:29 AM



#70
Styrene
Concen: 21.188 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion:104 Resp: 643072
Ion Ratio Lower Upper
104 100
78 48.8 38.9 58.3
103 55.6 44.3 66.5





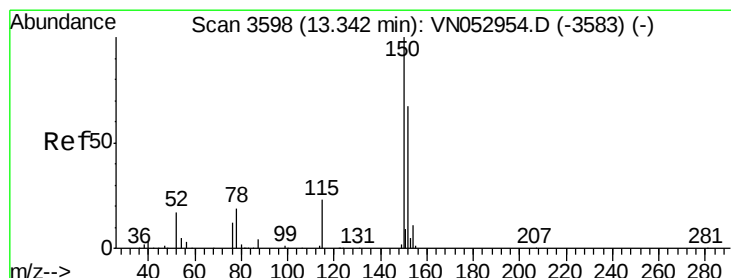
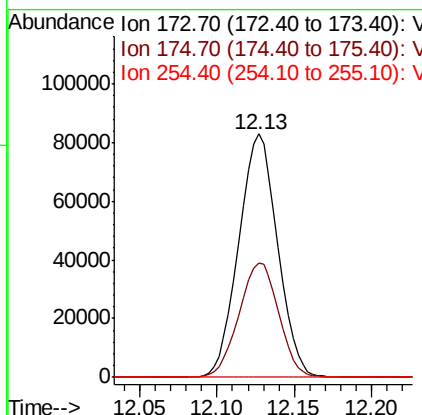
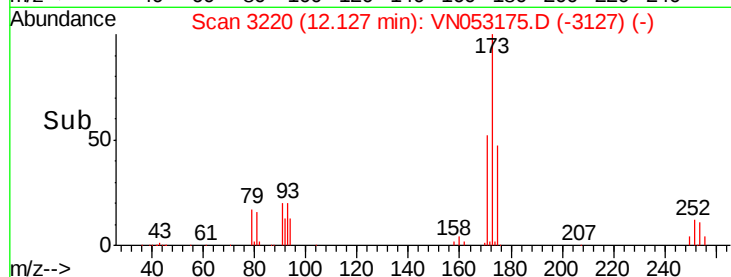
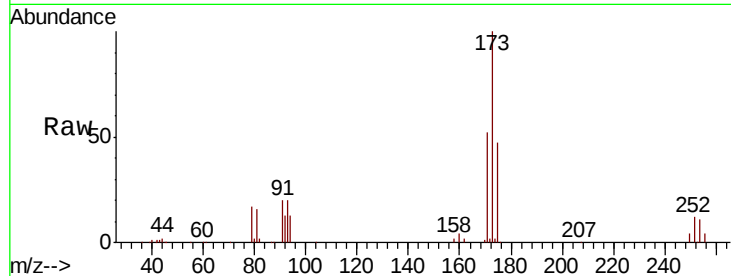
#71
Bromoform
Concen: 19.420 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.3	72.9
254	0.0	0.1	0.1#

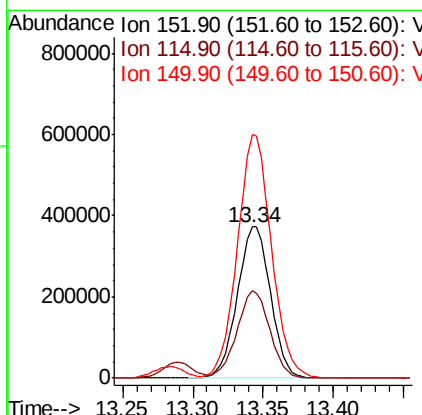
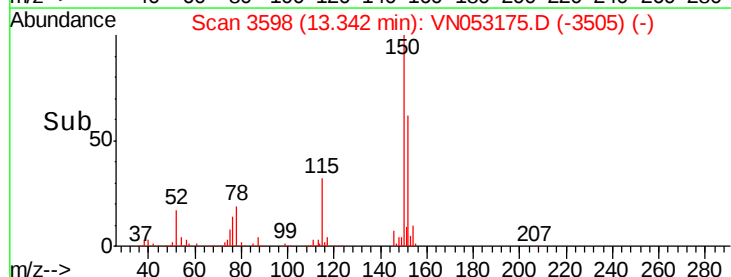
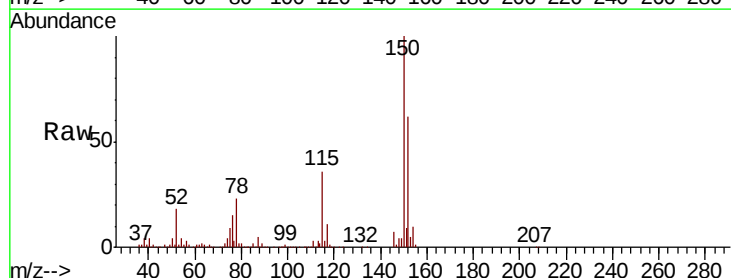
Manual Integrations
APPROVED

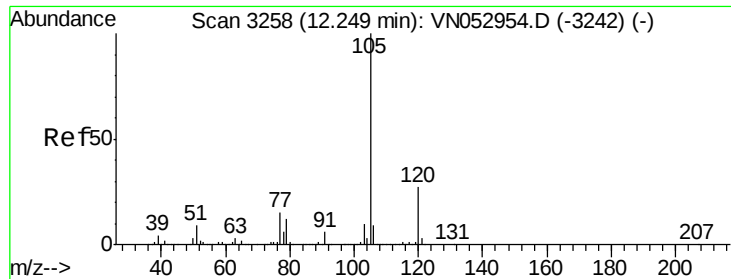
MMDadoda
12/26/2018 10:53:29 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.9	28.3	85.0
150	165.2	0.0	347.8





#73

Isopropylbenzene

Concen: 21.885 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VN1224MBS01

Tot Ion:105 Resp: 1051123

Ion Ratio Lower Upper

105 100

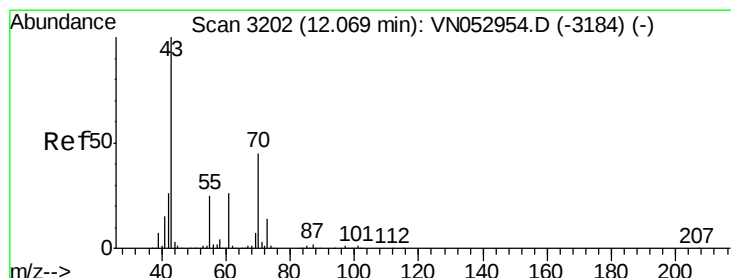
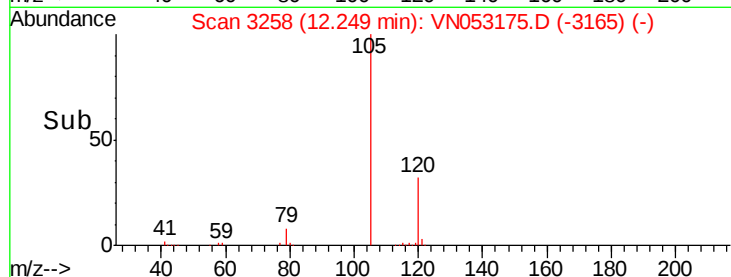
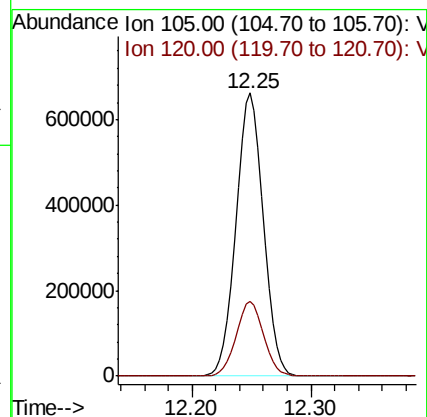
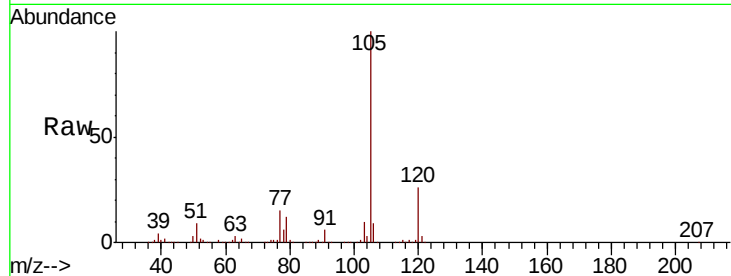
120 26.4 13.3 39.9

Manual Integrations

APPROVED

MMDadoda

12/26/2018 10:53:29 AM



#74

N-ethyl acetate

Concen: 21.117 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Tgt Ion: 43 Resp: 281583

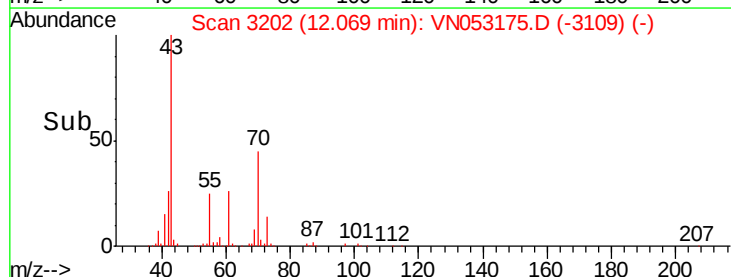
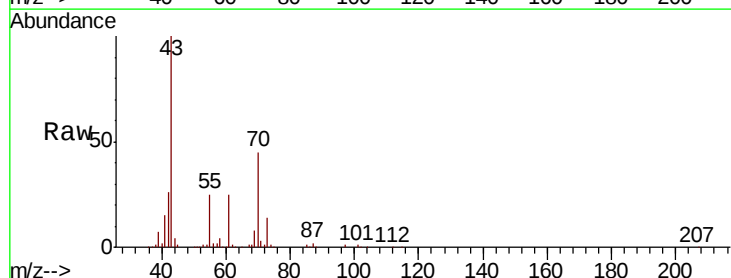
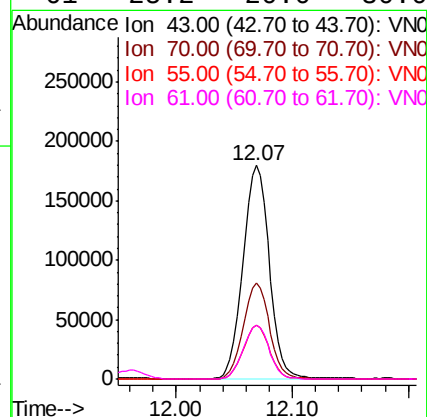
Ion Ratio Lower Upper

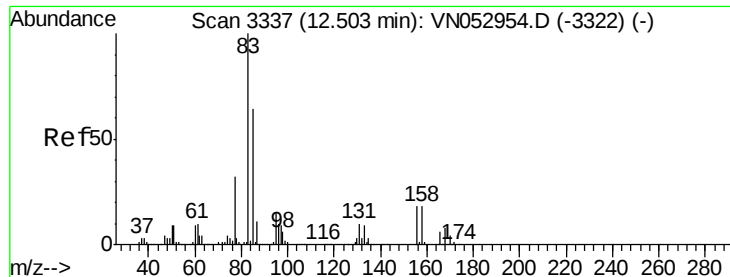
43 100

70 44.7 34.2 51.4

55 25.0 20.3 30.5

61 25.2 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 24.109 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

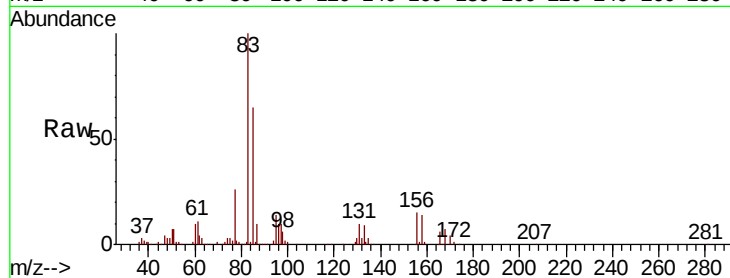
ClientSampleId :

VN1224MBS01

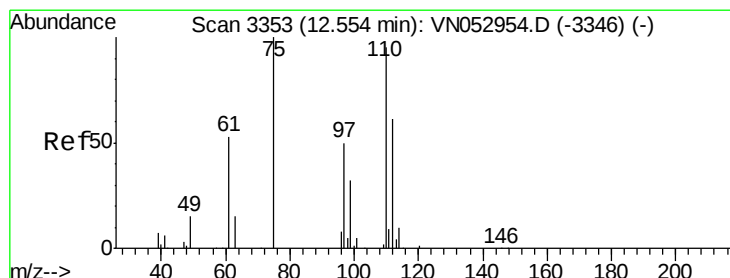
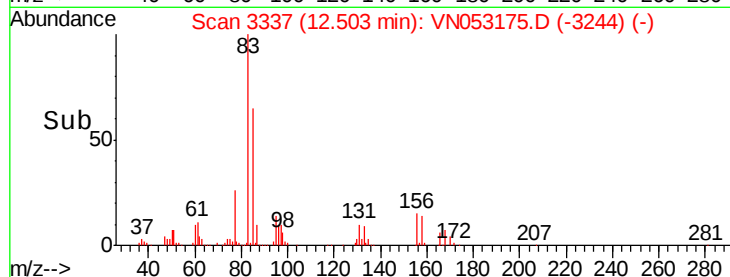
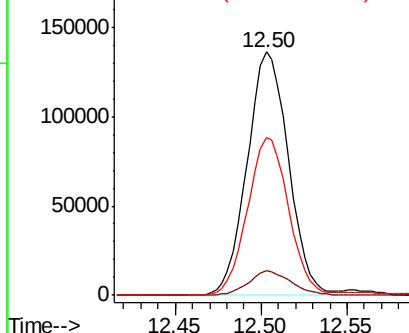
Tot Ion:	83	Resp:	227170
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.2	15.6
85	64.3	32.4	97.0

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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 20.354 ug/l m

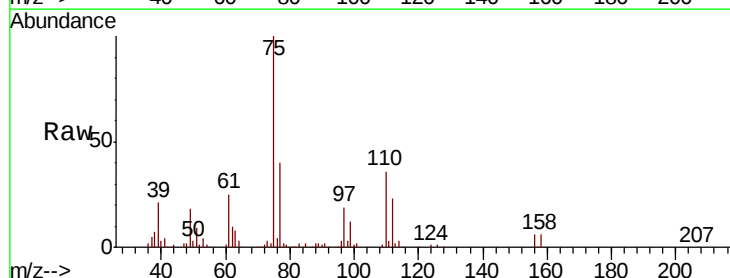
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

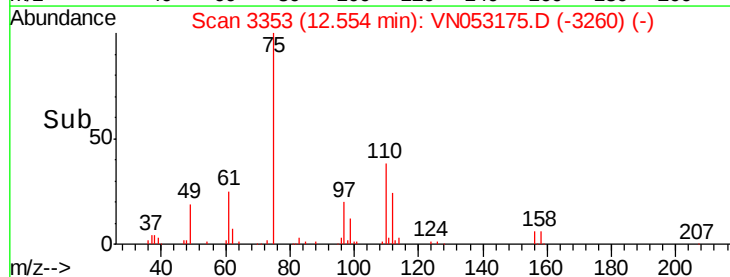
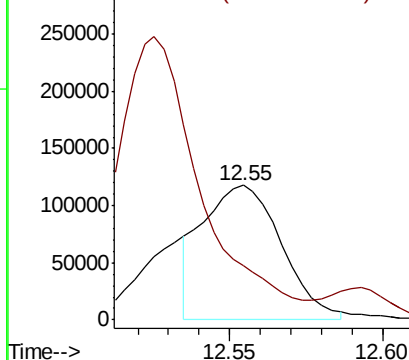
Lab File: VN053175.D

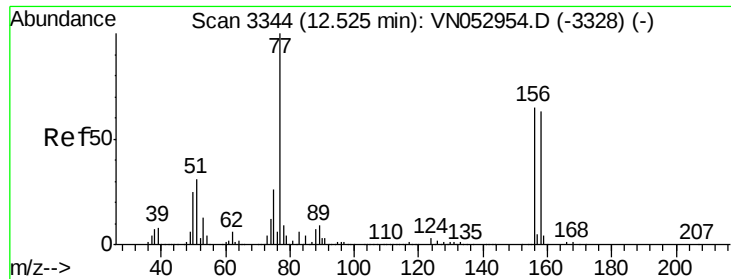
Acq: 24 Dec 2018 10:47

Tgt Ion:	75	Resp:	210329
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





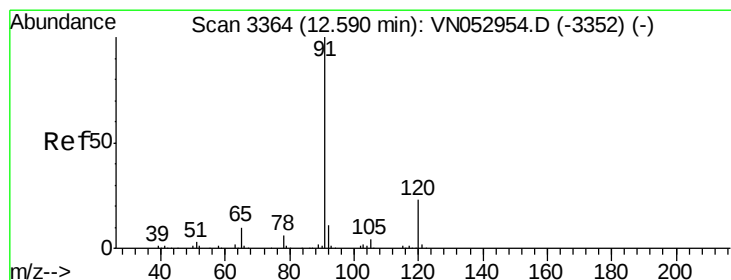
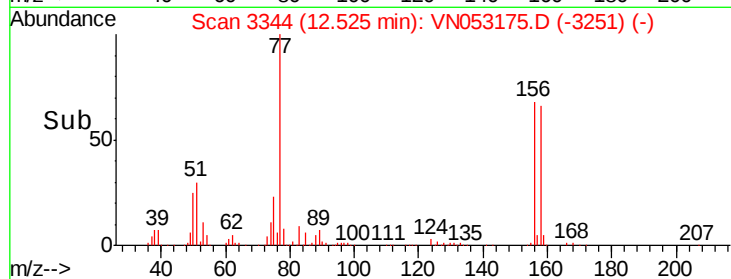
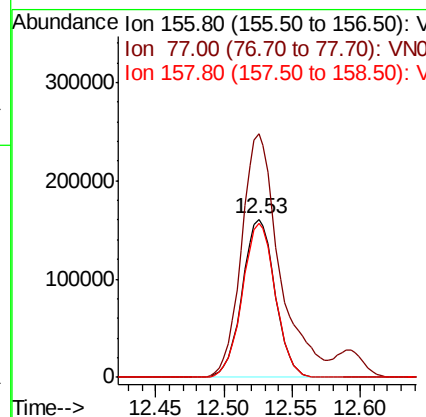
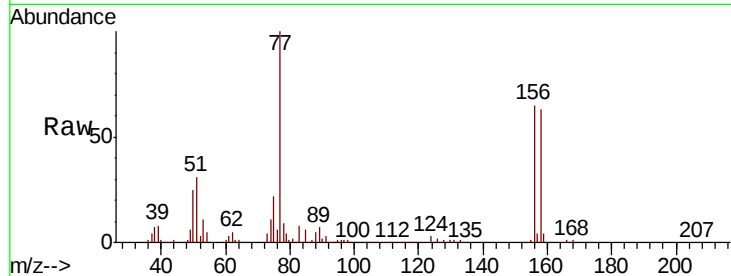
#77
Bromobenzene
Concen: 21.502 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		268449		
77	179.4	91.3	273.8		
158	97.5	49.0	147.2		

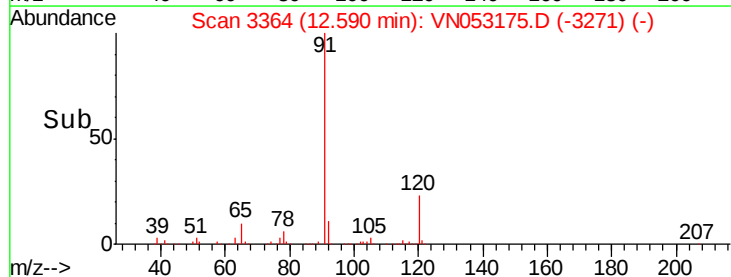
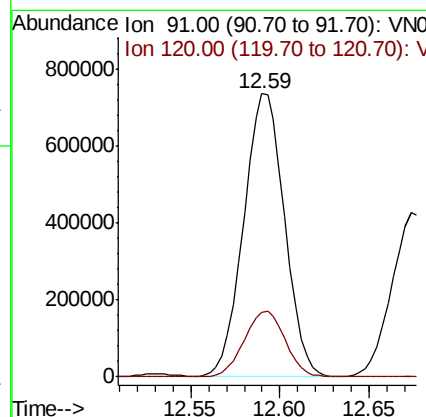
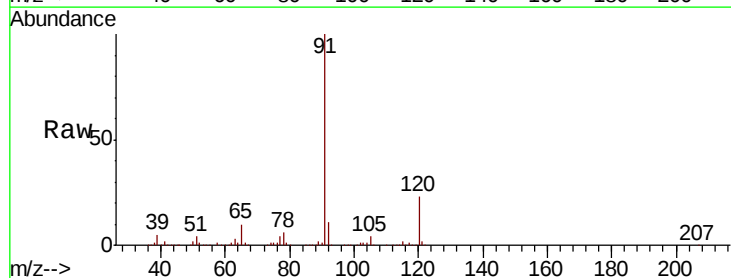
Manual Integrations
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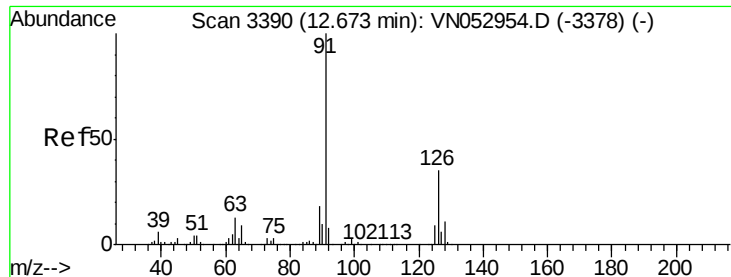
MMDadoda
12/26/2018 10:53:29 AM



#78
n-propylbenzene
Concen: 21.512 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		1176692		
120	23.3	11.5	34.5		





#79

2-Chlorotoluene

Concen: 20.754 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VN1224MBS01

Tot Ion: 91 Resp: 703699

Ion Ratio Lower Upper

91 100

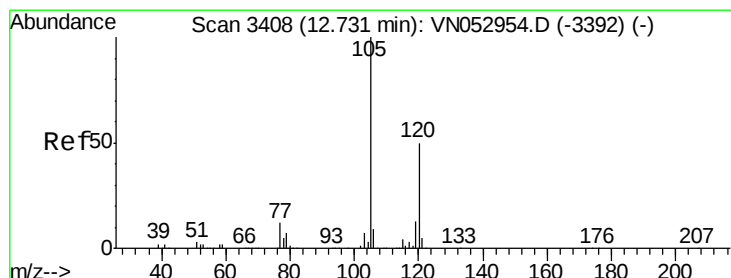
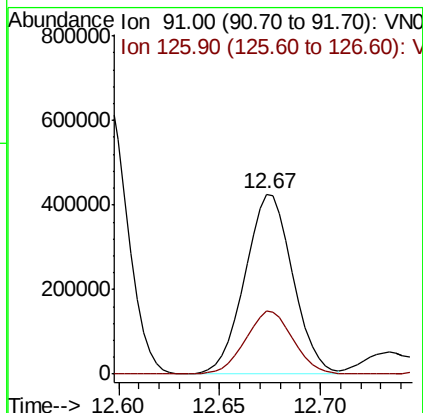
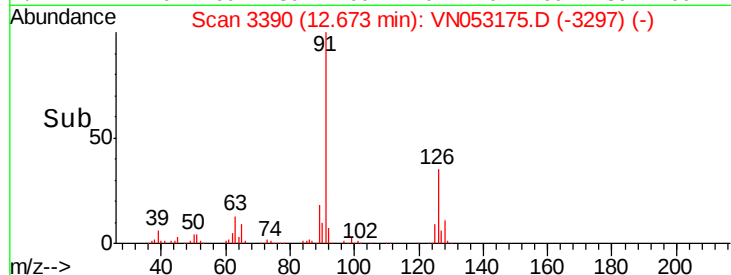
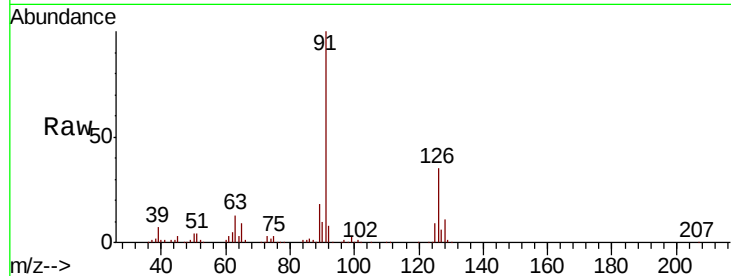
126 35.0 17.4 52.3

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#80

1,3,5-Trimethylbenzene

Concen: 21.169 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053175.D

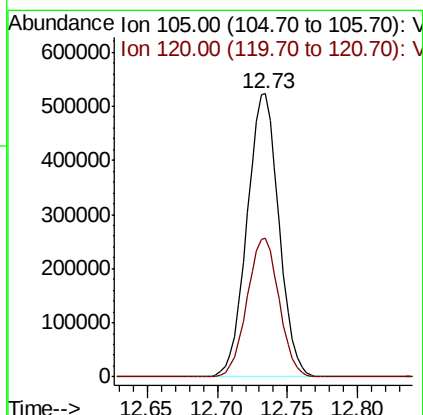
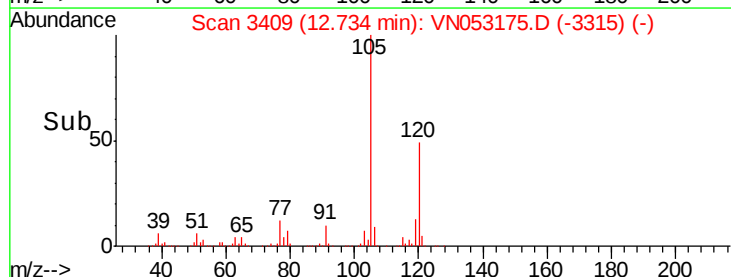
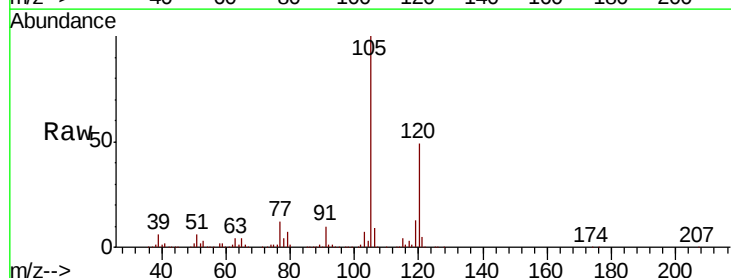
Acq: 24 Dec 2018 10:47

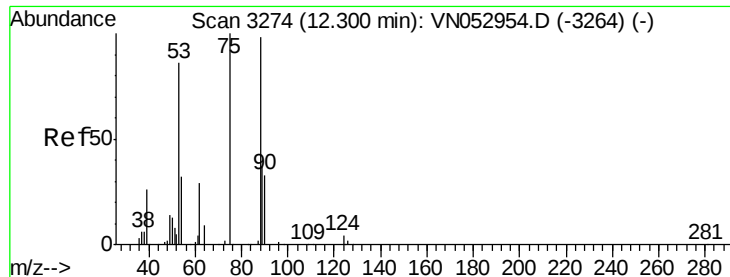
Tgt Ion: 105 Resp: 828714

Ion Ratio Lower Upper

105 100

120 49.3 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 19.189 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

ClientSampleId :

VN1224MBS01

Tot Ion: 75 Resp: 61522

Ion Ratio Lower Upper

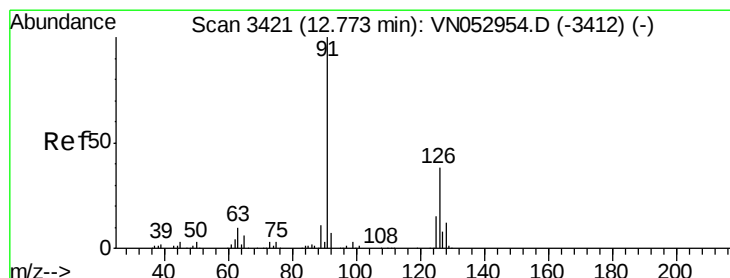
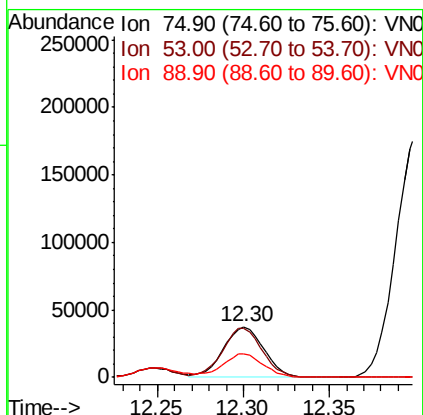
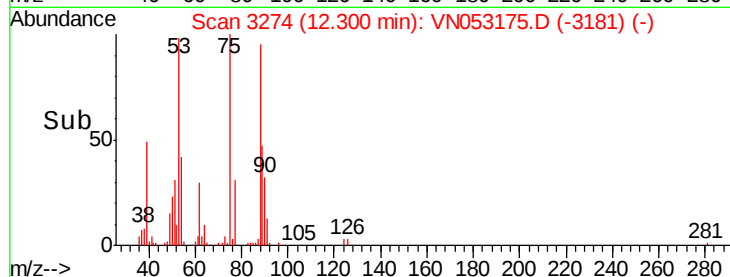
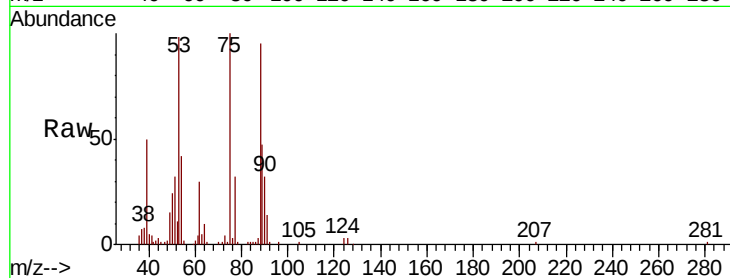
75 100

53 96.5 74.7 112.1

89 47.0 36.1 54.1

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#82

4-Chlorotoluene

Concen: 21.204 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN053175.D

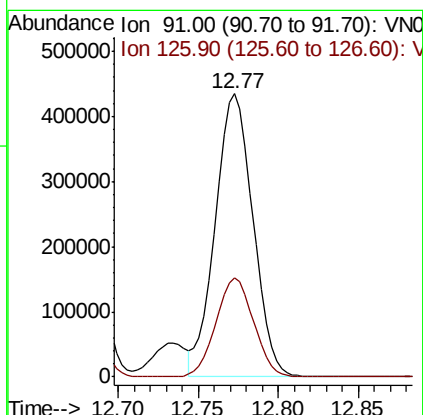
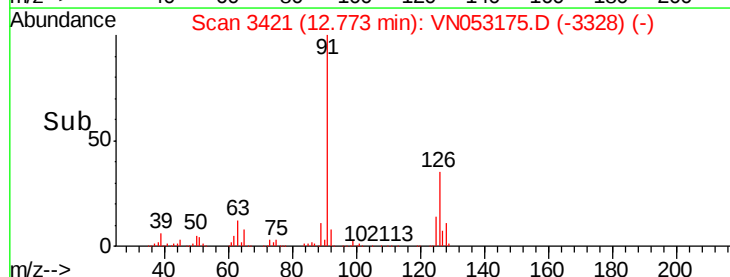
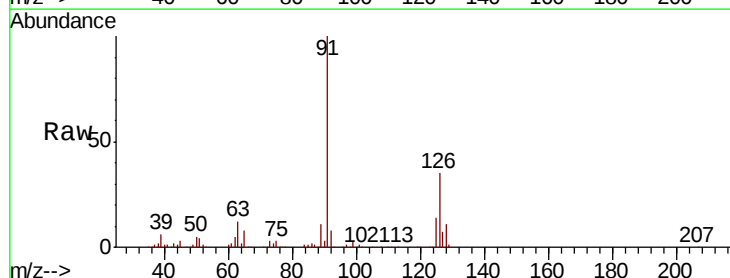
Acq: 24 Dec 2018 10:47

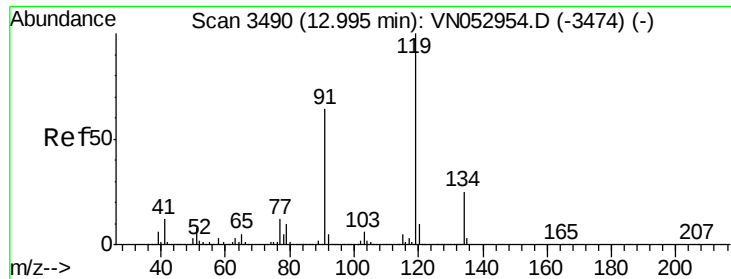
Tgt Ion: 91 Resp: 703761

Ion Ratio Lower Upper

91 100

126 34.8 17.3 51.7





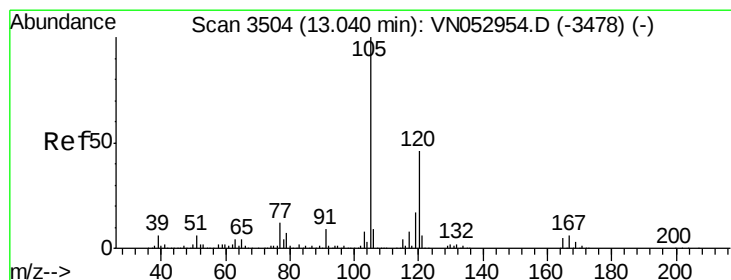
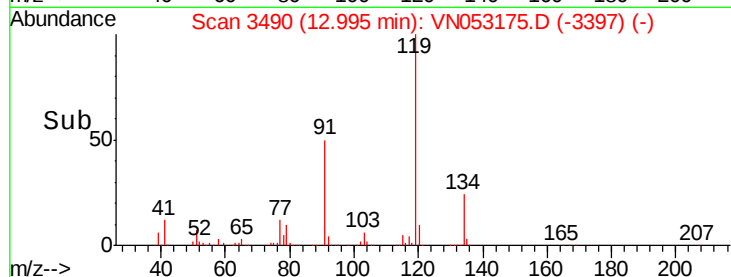
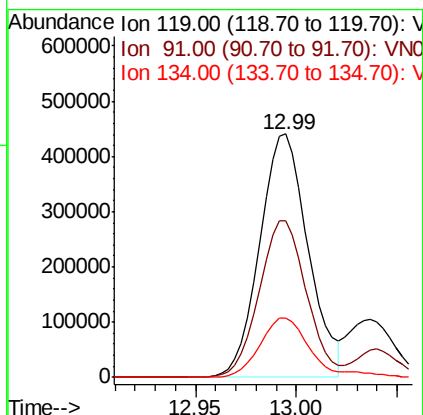
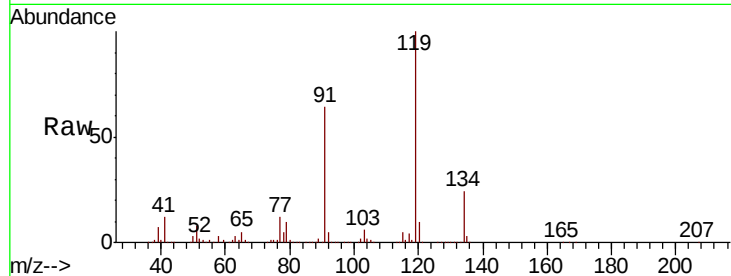
#83
tert-Butylbenzene
Concen: 21.256 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	735936		
91	63.1		31.9	95.5
134	25.5		12.8	38.4

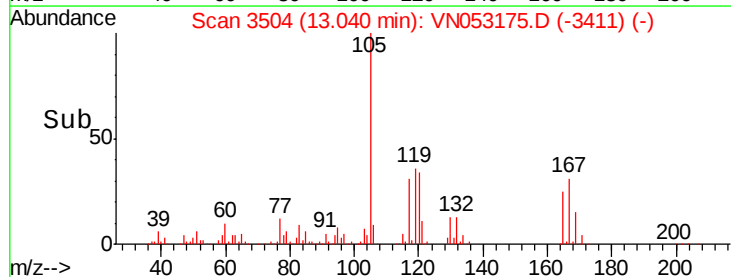
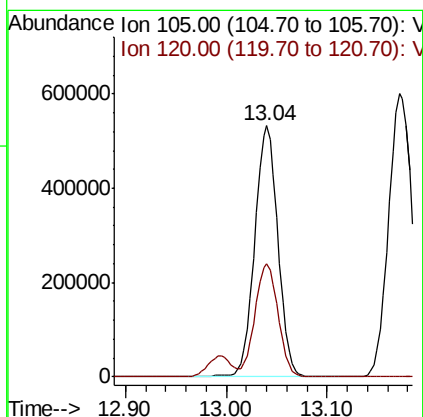
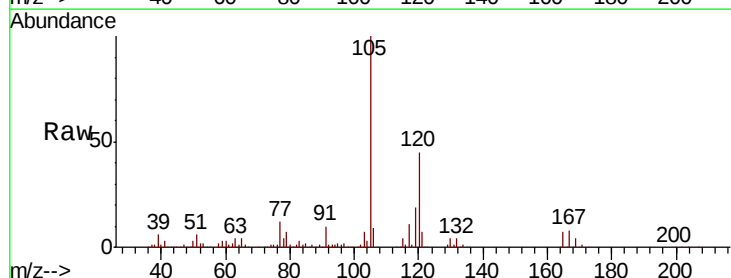
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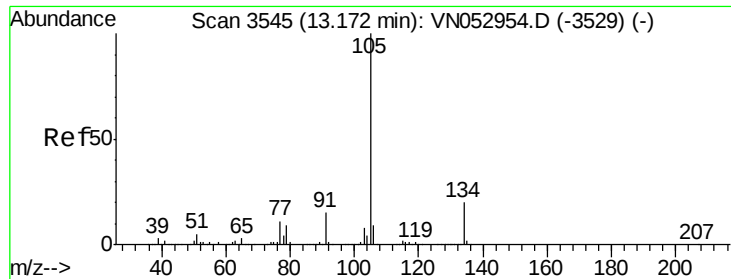
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 21.355 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	840422		
120	45.3		22.9	68.8





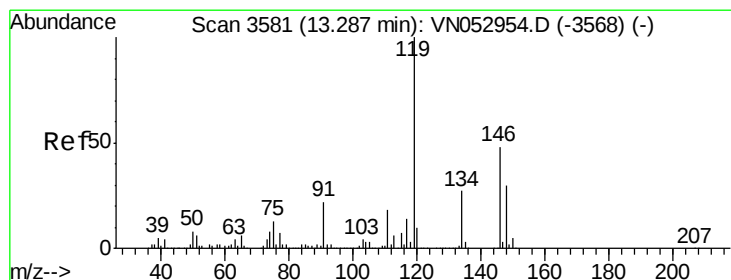
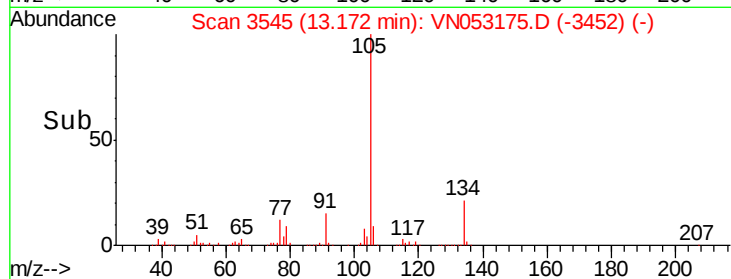
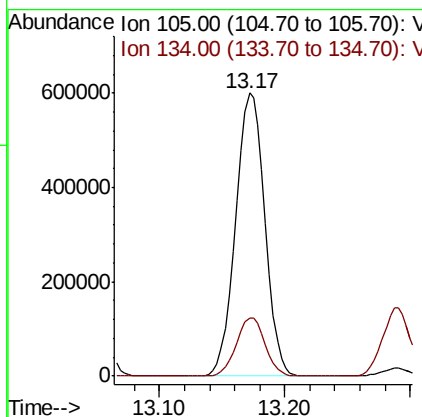
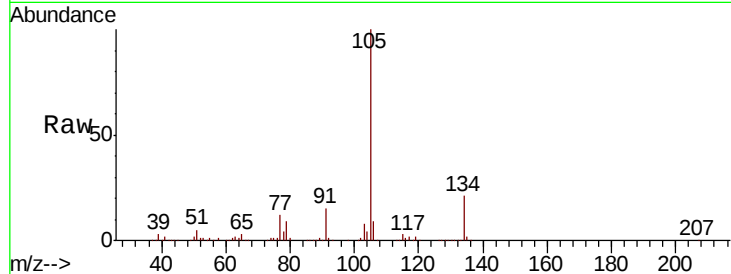
#85
 sec-Butylbenzene
 Concen: 20.680 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224MBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	968431		
134	20.3	10.1	30.3	

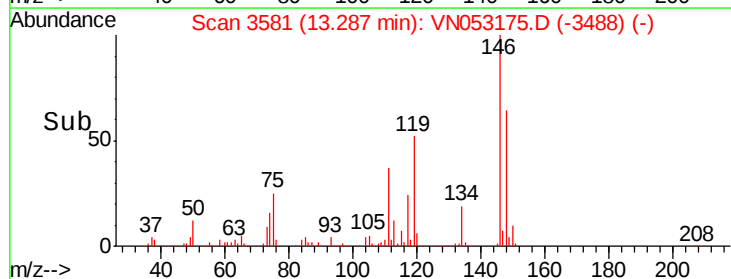
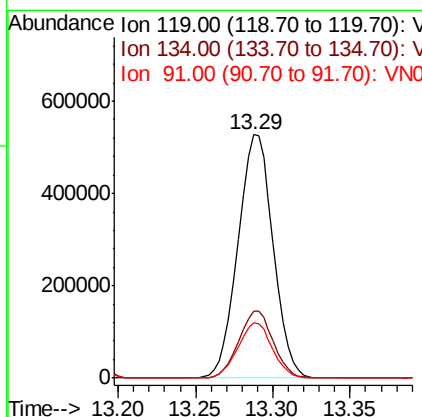
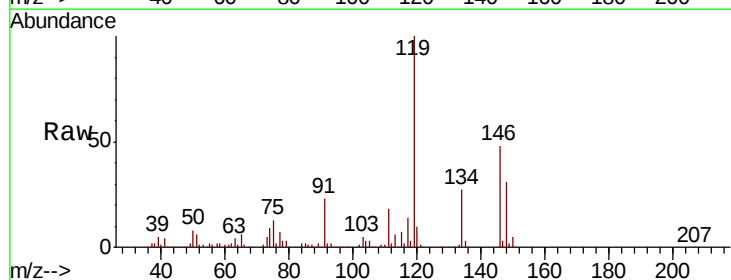
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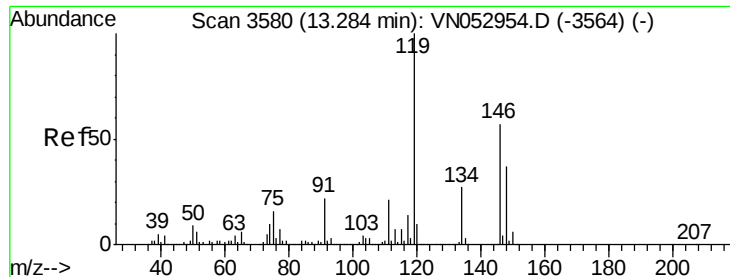
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#86
 p-Isopropyltoluene
 Concen: 20.525 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	830555		
134	27.1	13.4	40.2	
91	22.2	11.1	33.3	





#87

1,3-Dichlorobenzene

Concen: 20.636 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Instrument :

MSVOA_N

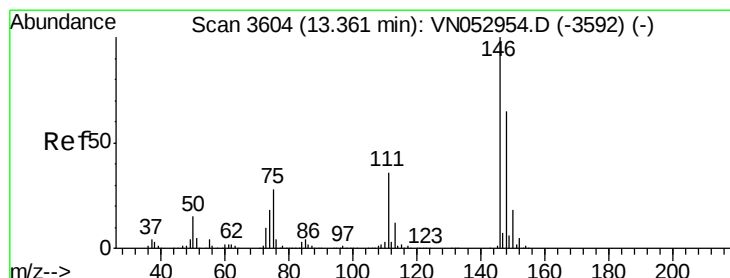
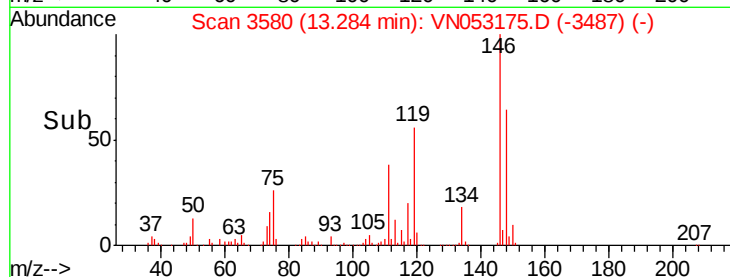
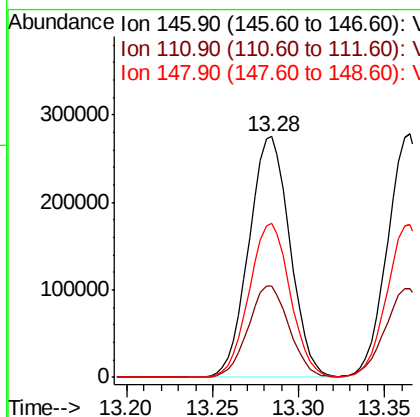
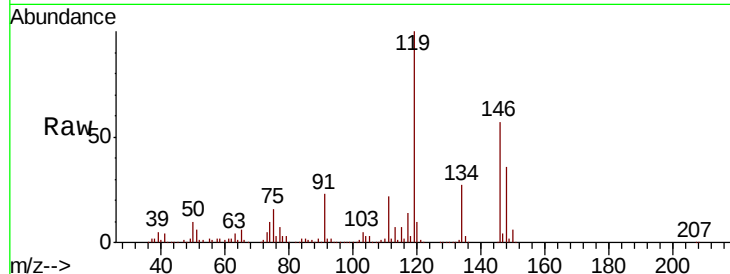
ClientSampleId :

VN1224MBS01

Tot Ion:	146	Resp:	455977
Ion Ratio	Lower	Upper	
146	100		
111	37.8	19.1	57.1
148	63.9	32.0	96.0

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 20.039 ug/l

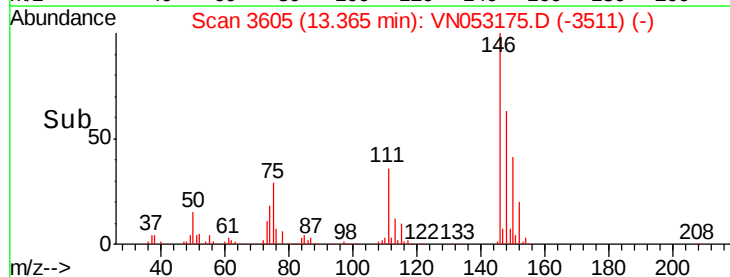
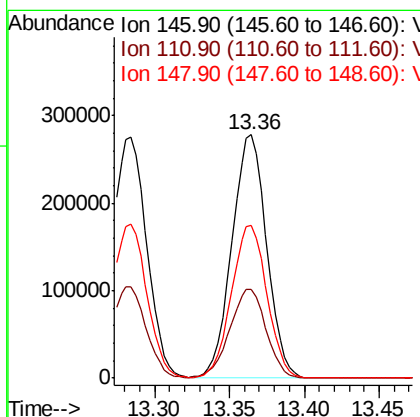
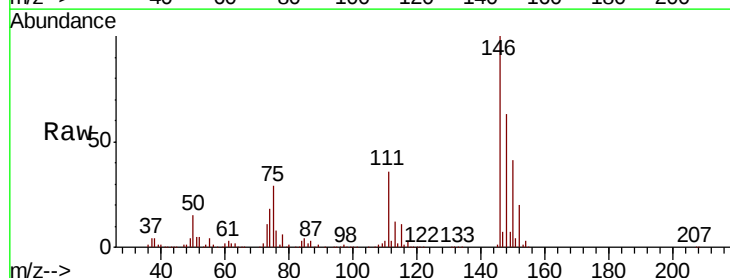
RT: 13.36 min Scan# 3605

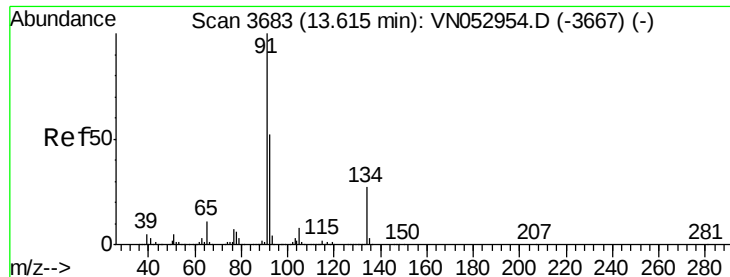
Delta R.T. 0.00 min

Lab File: VN053175.D

Acq: 24 Dec 2018 10:47

Tgt Ion:	146	Resp:	448400
Ion Ratio	Lower	Upper	
146	100		
111	38.5	18.6	55.8
148	64.3	32.1	96.5





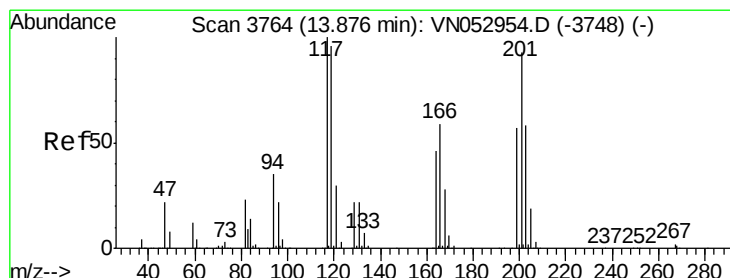
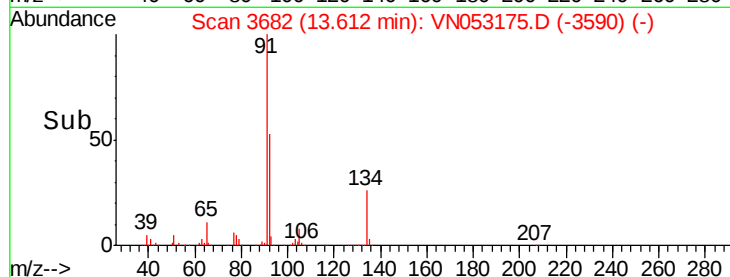
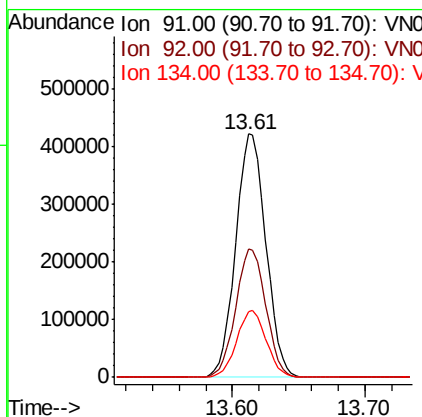
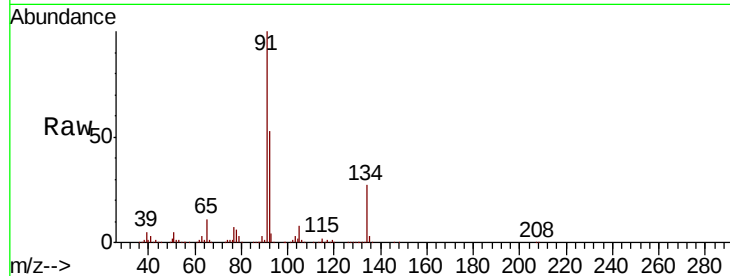
#89
n-Butylbenzene
Concen: 19.151 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.3	78.9
134	26.9	13.3	39.8

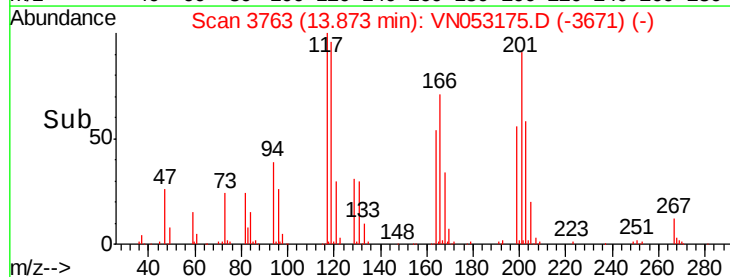
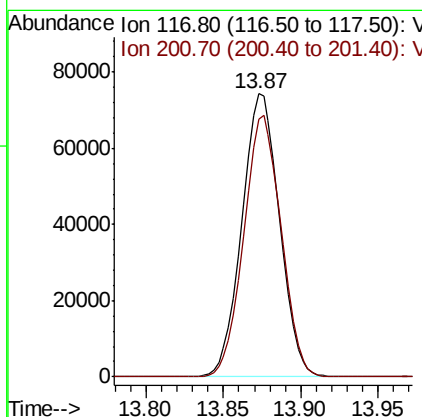
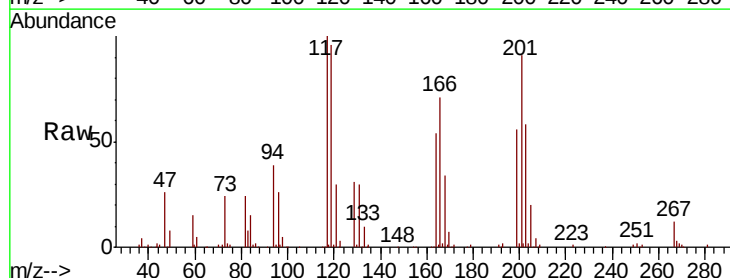
Manual Integrations
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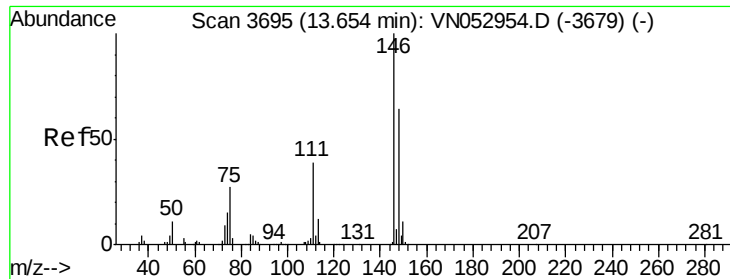
MMDadoda
12/26/2018 10:53:29 AM



#90
Hexachloroethane
Concen: 20.274 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.5	45.7	137.1





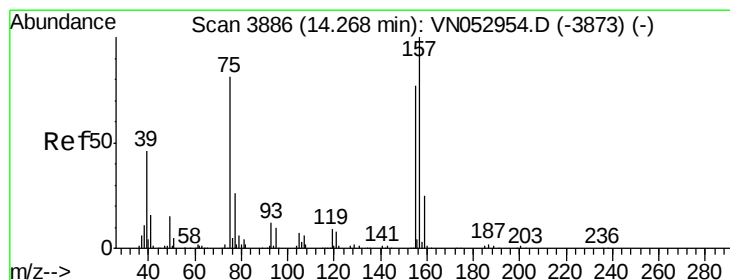
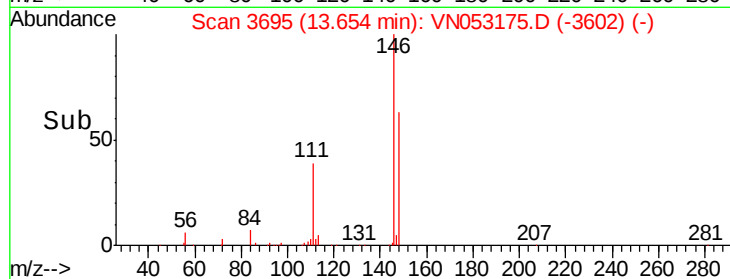
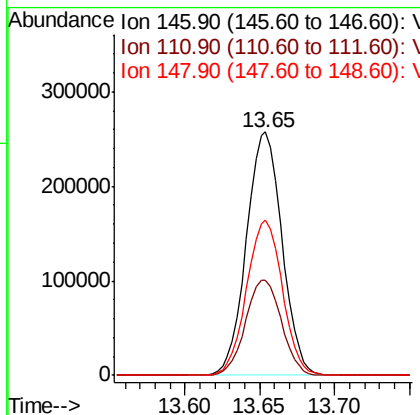
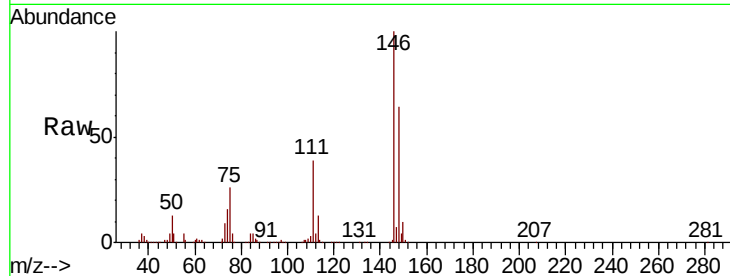
#91
 1,2-Dichlorobenzene
 Concen: 20.514 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.7	59.0
148	64.2	32.0	96.0

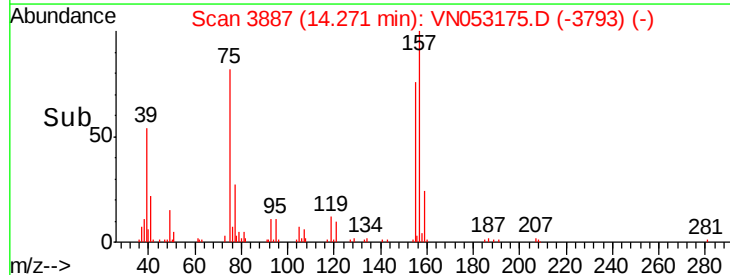
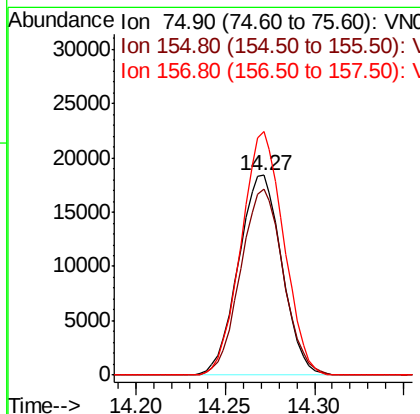
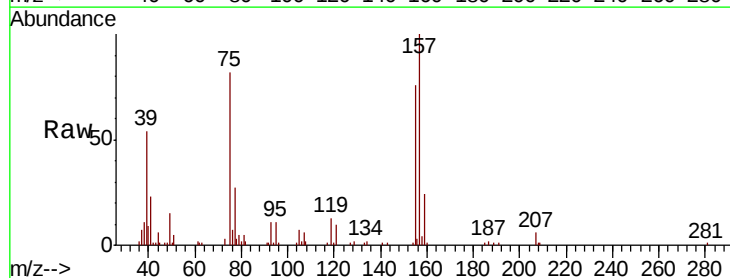
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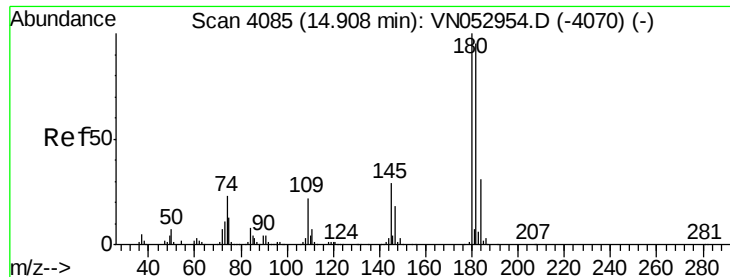
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.176 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.5	48.2	144.6
157	119.2	61.2	183.5





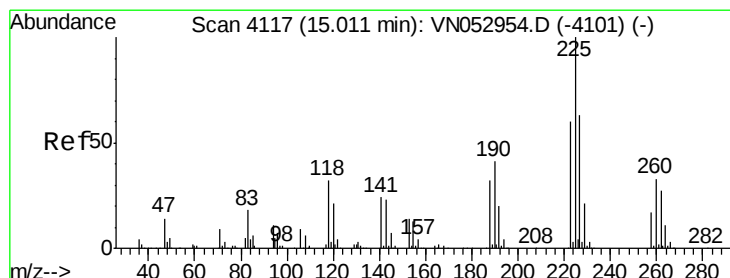
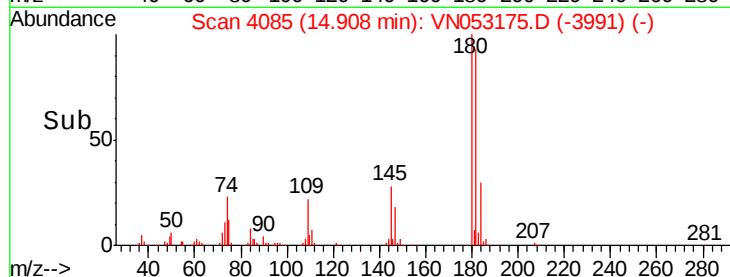
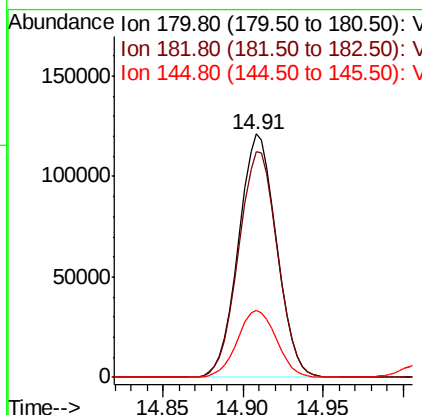
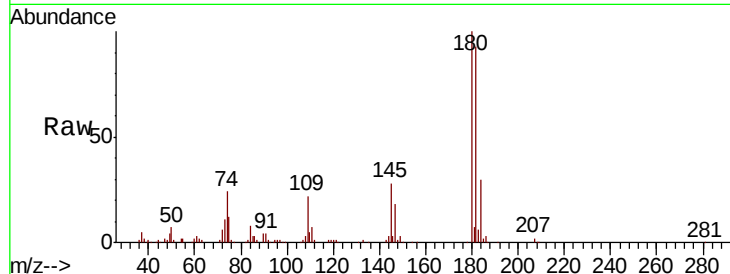
#93
 1,2,4-Trichlorobenzene
 Concen: 18.179 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1224MBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	196064		
182	95.1	47.8	143.3	
145	28.4	14.2	42.6	

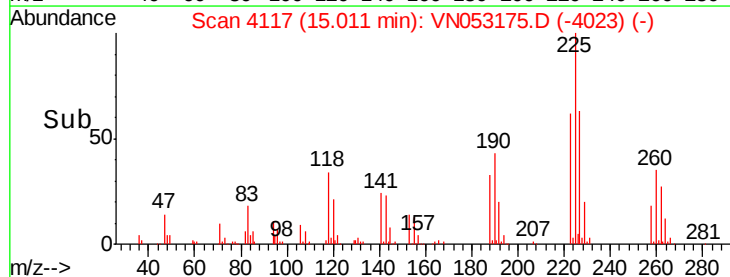
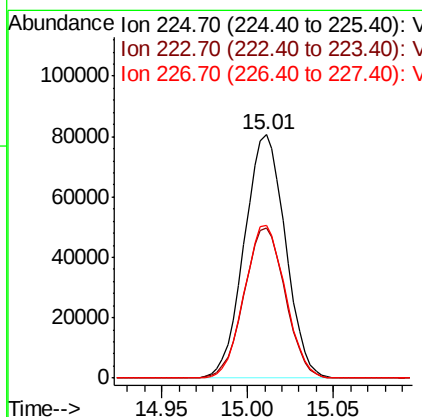
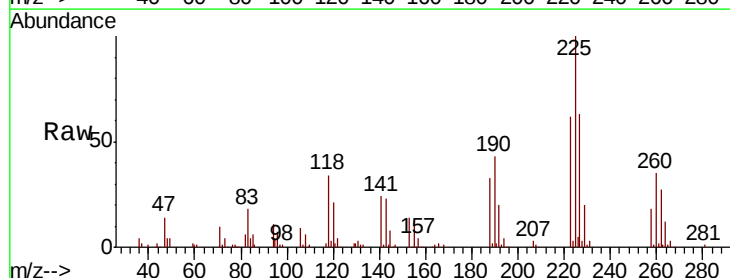
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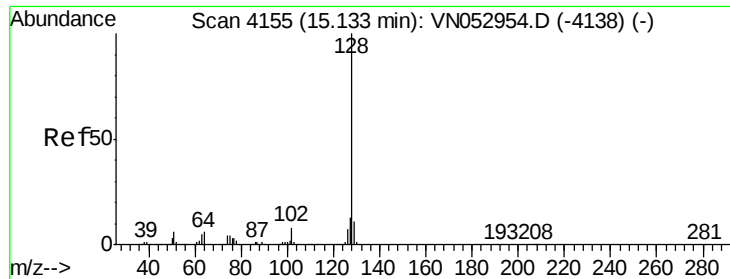
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#94
 Hexachlorobutadiene
 Concen: 21.872 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053175.D
 Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	133991		
223	61.7	31.5	94.5	
227	62.4	31.9	95.7	





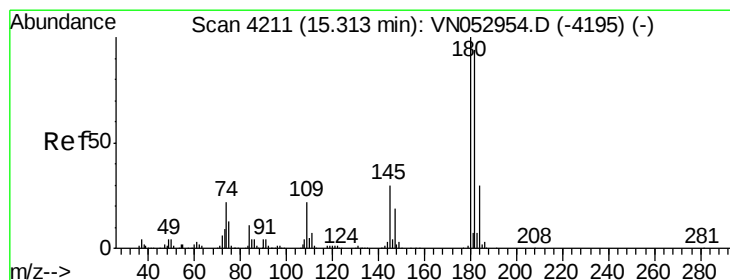
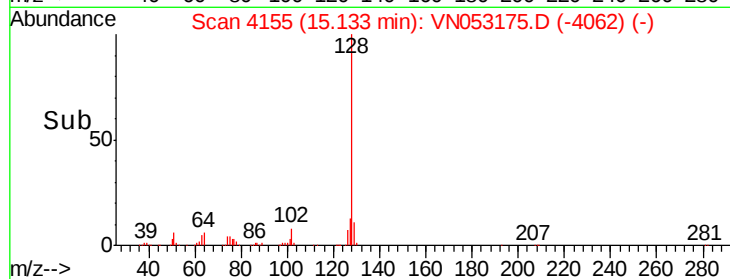
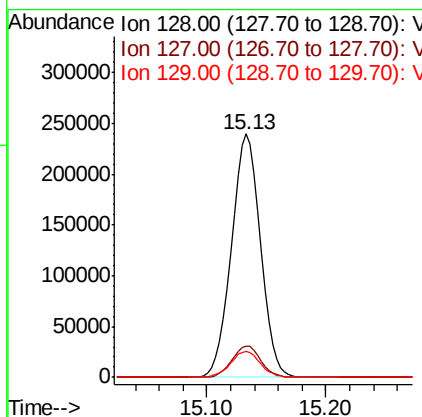
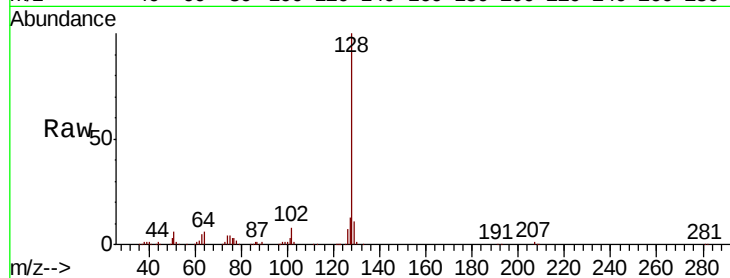
#95
Naphthalene
Concen: 17.513 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Instrument :
MSVOA_N
ClientSampleId :
VN1224MBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.9	8.6	13.0

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 17.932 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN053175.D
Acq: 24 Dec 2018 10:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.9	143.7
145	29.3	15.0	45.0

