

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053019.D
 Acq On : 19 Dec 2018 18:50
 Operator : MD\SY
 Sample : VN1219WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/20/2018 9:35:07 AM

Quant Time: Dec 20 06:42:20 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	1091544	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1682165	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1517231	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	679006	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	574077	51.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.66%	
35) Dibromofluoromethane	7.59	113	440405	57.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.62%	
50) Toluene-d8	10.09	98	2090798	50.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.36%	
62) 4-Bromofluorobenzene	12.40	95	713710	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	215731	19.528	ug/l	100
3) Chloromethane	2.06	50	266018	19.871	ug/l	99
4) Vinyl Chloride	2.19	62	267862	19.757	ug/l	98
5) Bromomethane	2.58	94	171478	18.255	ug/l	99
6) Chloroethane	2.71	64	158372	19.723	ug/l	98
7) Trichlorofluoromethane	3.02	101	341422	20.215	ug/l	98
8) Diethyl Ether	3.41	74	131372	20.618	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.77	101	212508	19.734	ug/l	98
10) Methyl Iodide	3.96	142	296429	19.601	ug/l	99
11) Tert butyl alcohol	4.78	59	73682	109.016	ug/l	100
12) 1,1-Dichloroethene	3.74	96	205069	19.711	ug/l	96
13) Acrolein	3.61	56	76877	125.442	ug/l	98
14) Allyl chloride	4.33	41	309112	19.181	ug/l	98
15) Acrylonitrile	4.99	53	392641	104.569	ug/l	100
16) Acetone	3.82	43	246973	113.714	ug/l	96
17) Carbon Disulfide	4.06	76	580345	17.104	ug/l	99
18) Methyl Acetate	4.33	43	199914	20.870	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	581047	20.870	ug/l	99
20) Methylene Chloride	4.55	84	238616	20.141	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	218822	19.576	ug/l	99
22) Diisopropyl ether	5.95	45	723101	21.021	ug/l	98
23) Vinyl Acetate	5.90	43	2103892	106.365	ug/l	99
24) 1,1-Dichloroethane	5.85	63	415618	20.333	ug/l	99
25) 2-Butanone	6.83	43	410128	112.520	ug/l	97
26) 2,2-Dichloropropane	6.83	77	261275	16.745	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	254150	20.083	ug/l	98
28) Bromochloromethane	7.20	49	182851	20.644	ug/l	95
29) Tetrahydrofuran	7.21	42	292682	107.513	ug/l	97
30) Chloroform	7.37	83	405009	20.170	ug/l	100
31) Cyclohexane	7.66	56	401856	20.339	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	334623	19.563	ug/l	99
36) 1,1-Dichloropropene	7.79	75	312577	19.360	ug/l	99
37) Ethyl Acetate	6.93	43	197468	21.908	ug/l	99
38) Carbon Tetrachloride	7.78	117	284449	19.221	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	371754	18.954	ug/l	97
40) Benzene	8.04	78	959231	19.973	ug/l	99
41) Methacrylonitrile	7.18	41	111011	21.316	ug/l	97
42) 1,2-Dichloroethane	8.12	62	283202	19.961	ug/l	98
43) Isopropyl Acetate	8.16	43	371237	20.671	ug/l	99
44) Trichloroethene	8.84	130	270101	19.444	ug/l	97
45) 1,2-Dichloropropane	9.12	63	255300	20.409	ug/l	98
46) Dibromomethane	9.21	93	147270	20.209	ug/l	98
47) Bromodichloromethane	9.40	83	301054	19.435	ug/l	98
48) Methyl methacrylate	9.20	41	179644	20.539	ug/l	98
49) 1,4-Dioxane	9.20	88	46304	418.520	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	949912	108.825	ug/l	99
52) Toluene	10.16	92	597815	20.083	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	300835	18.469	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	363058	19.418	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	209706	20.193	ug/l	99
56) Ethyl methacrylate	10.43	69	281199	20.458	ug/l	99
57) 1,3-Dichloropropane	10.71	76	362974	20.382	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	780383	103.414	ug/l	98
59) 2-Hexanone	10.75	43	634857	107.498	ug/l	99
60) Dibromochloromethane	10.90	129	227531	19.141	ug/l	100
61) 1,2-Dibromoethane	11.01	107	213288	20.223	ug/l	99
64) Tetrachloroethene	10.63	164	314091	19.111	ug/l	99
65) Chlorobenzene	11.43	112	659596	19.612	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	226548	19.370	ug/l	99
67) Ethyl Benzene	11.51	91	1135980	19.640	ug/l	100
68) m/p-Xylenes	11.62	106	895737	40.737	ug/l	99
69) o-Xylene	11.95	106	422951	20.046	ug/l	100
70) Styrene	11.96	104	687106	19.971	ug/l	99
71) Bromoform	12.13	173	153745	18.197	ug/l #	100
73) Isopropylbenzene	12.25	105	1111858	20.929	ug/l	100
74) N-amyl acetate	12.07	43	323292	21.918	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	231633	22.224	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	215561m	18.859	ug/l	
77) Bromobenzene	12.53	156	368536	26.687	ug/l	73
78) n-propylbenzene	12.59	91	1241176	20.513	ug/l	99
79) 2-Chlorotoluene	12.67	91	732910	19.542	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	871896	20.135	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	65444	18.454	ug/l	98
82) 4-Chlorotoluene	12.77	91	734409	20.004	ug/l	99
83) tert-Butylbenzene	12.99	119	770056	20.107	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	879214	20.197	ug/l	100
85) sec-Butylbenzene	13.17	105	1011146	19.520	ug/l	99
86) p-Isopropyltoluene	13.29	119	865399	19.334	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	473650	19.379	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	477851	19.306	ug/l	100
89) n-Butylbenzene	13.62	91	690593	17.934	ug/l	99
90) Hexachloroethane	13.88	117	121432	17.679	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	447391	19.449	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	33733	18.718	ug/l	95

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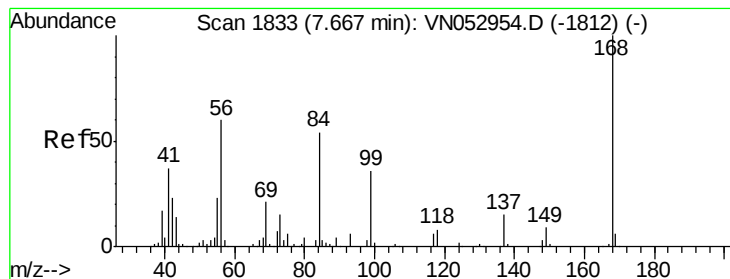
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	230631	19.294	ug/l	99
94) Hexachlorobutadiene	15.01	225	129146	18.667	ug/l	100
95) Naphthalene	15.13	128	545993	21.129	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	214522	19.856	ug/l	99

(#) = 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: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion:168 Resp: 1091544

Ion Ratio Lower Upper

168 100

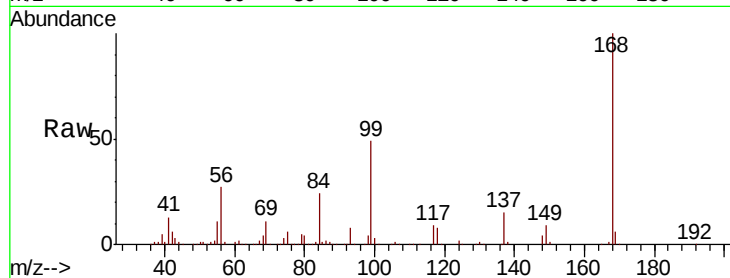
99 49.3 40.2 60.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

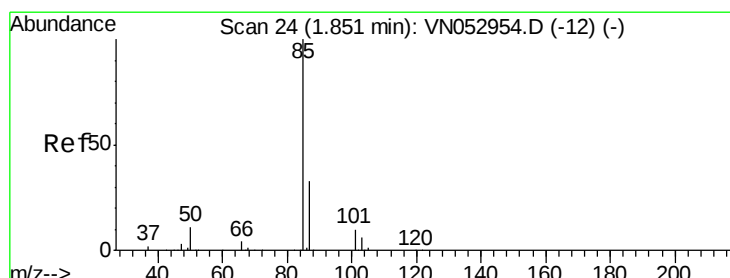
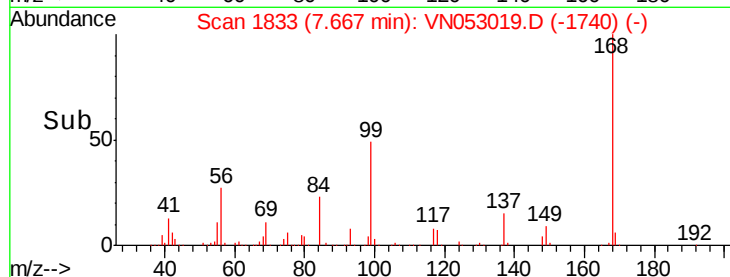
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 19.528 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053019.D

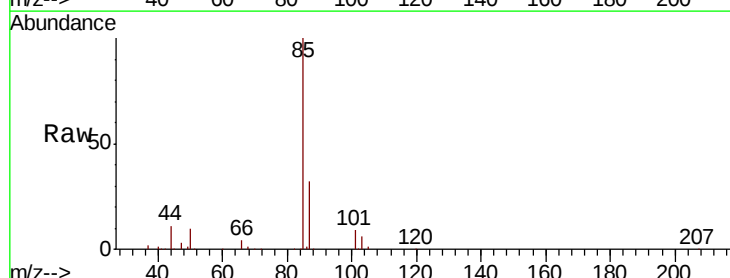
Acq: 19 Dec 2018 18:50

Tgt Ion: 85 Resp: 215731

Ion Ratio Lower Upper

85 100

87 32.4 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

150000

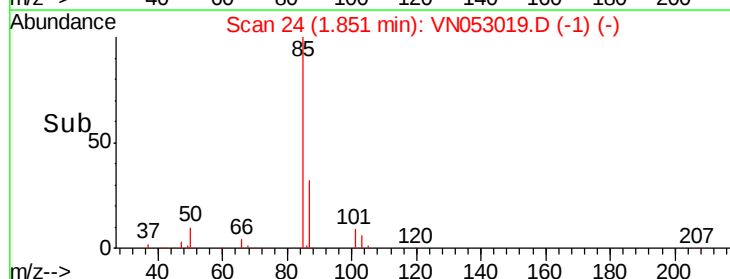
100000

50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.871 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion: 50 Resp: 266018

Ion Ratio Lower Upper

50 100

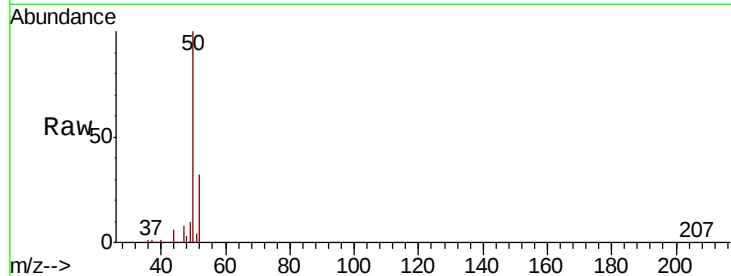
52 32.4 26.2 39.4

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC

2.06

200000

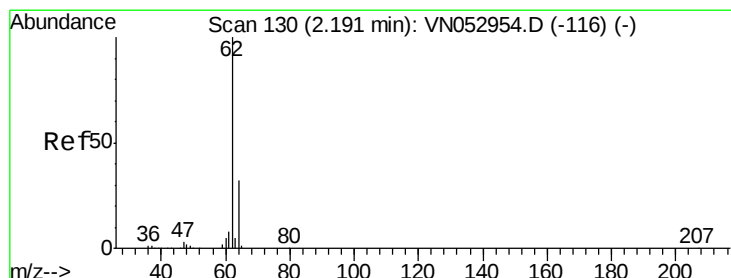
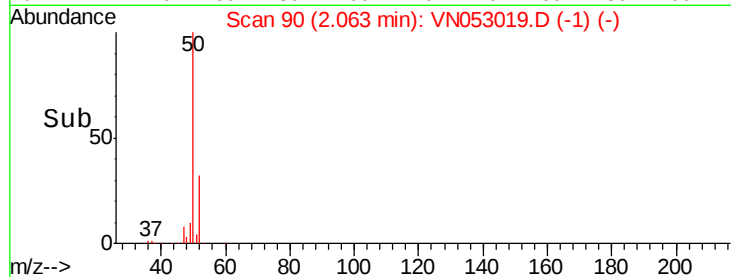
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 19.757 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN053019.D

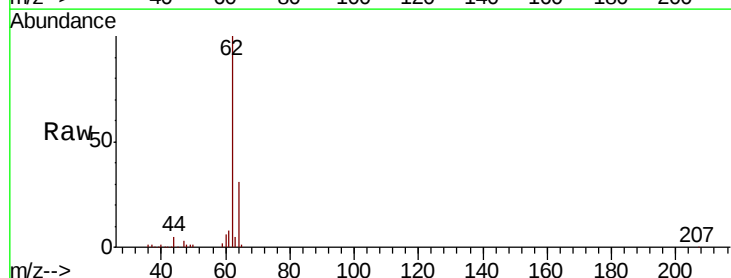
Acq: 19 Dec 2018 18:50

Tgt Ion: 62 Resp: 267862

Ion Ratio Lower Upper

62 100

64 31.1 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC

2.19

200000

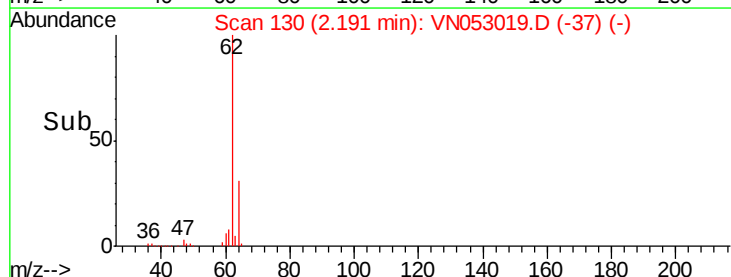
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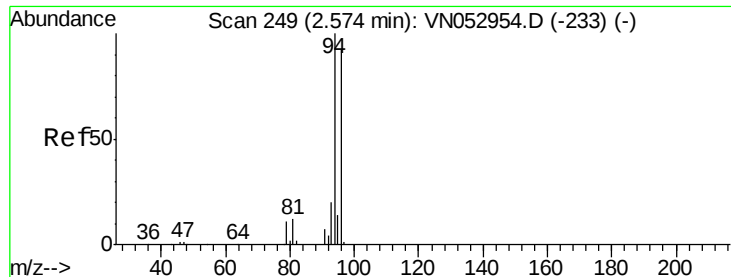
100000

50000

0

Time-->





#5

Bromomethane

Concen: 18.255 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion: 94 Resp: 171478

Ion Ratio Lower Upper

94 100

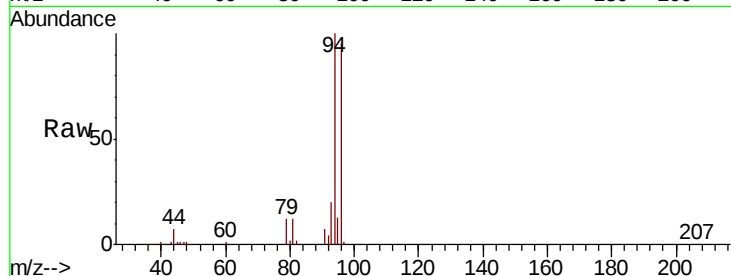
96 95.1 75.0 112.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN053019.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN053019.D (-156) (-)

2.58

100000

80000

60000

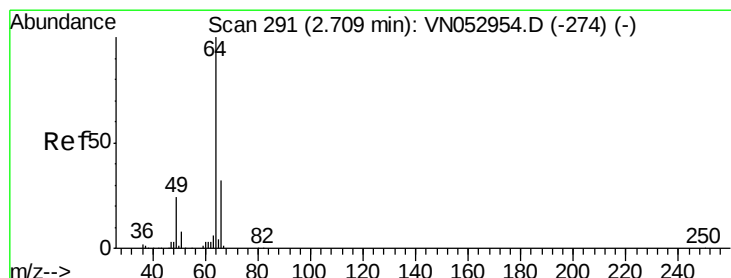
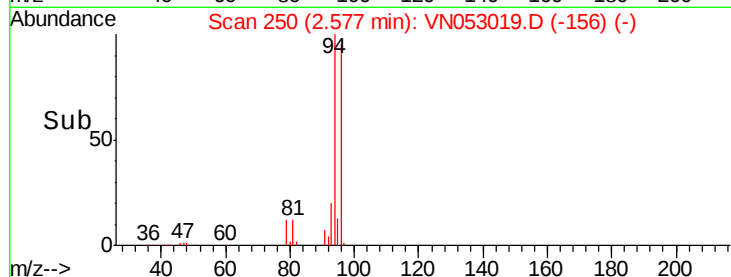
40000

20000

0

Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 19.723 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN053019.D

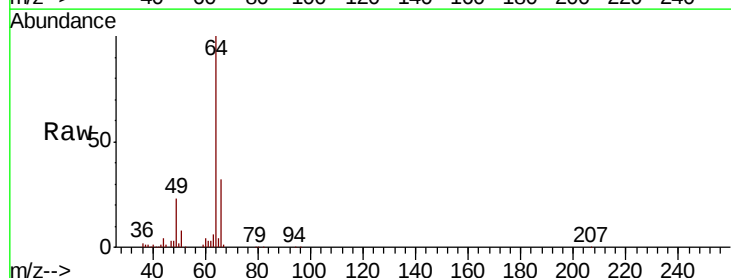
Acq: 19 Dec 2018 18:50

Tgt Ion: 64 Resp: 158372

Ion Ratio Lower Upper

64 100

66 31.6 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN053019.D (-198) (-)

Ion 65.90 (65.60 to 66.60): VN053019.D (-198) (-)

2.71

80000

60000

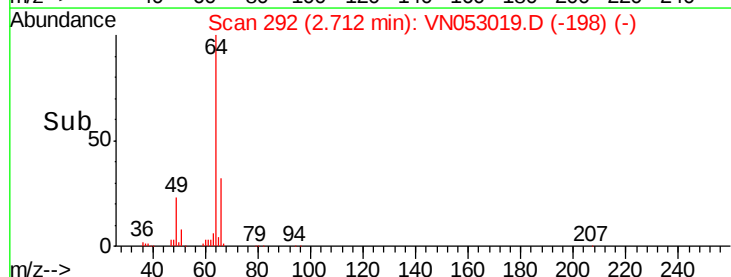
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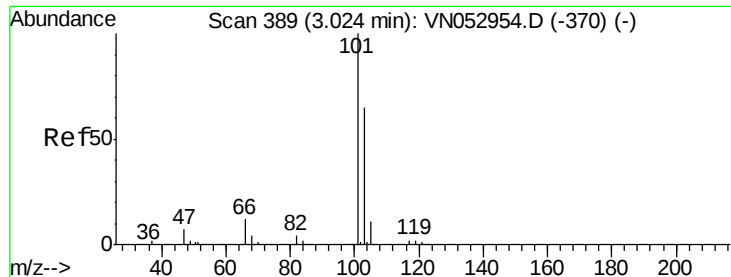
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Time-->

2.65 2.70 2.75 2.80





#7

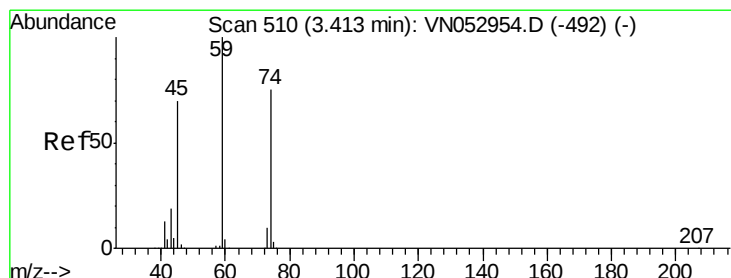
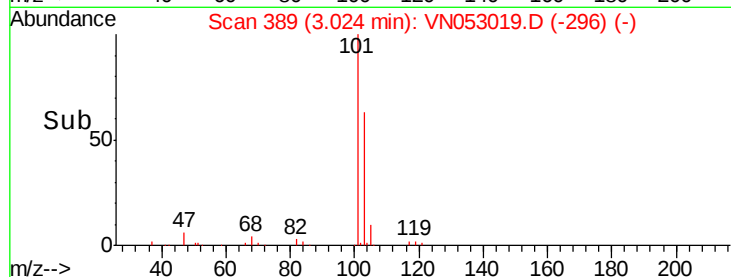
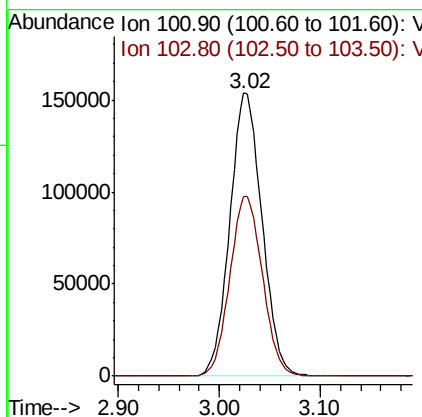
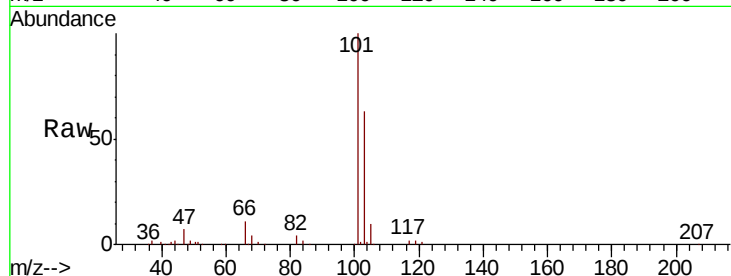
Trichlorofluoromethane
Concen: 20.215 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.3	51.8	77.6

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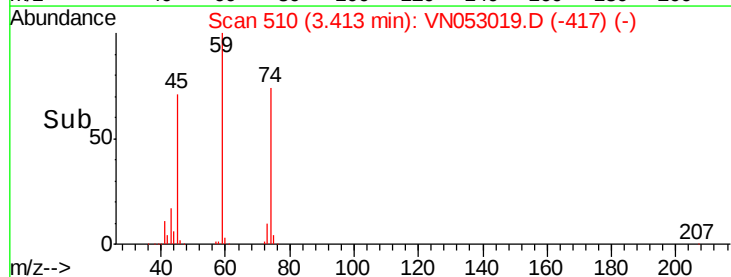
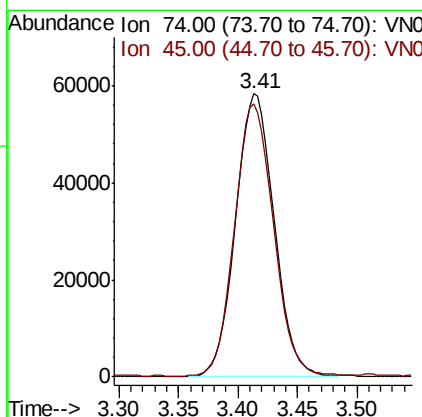
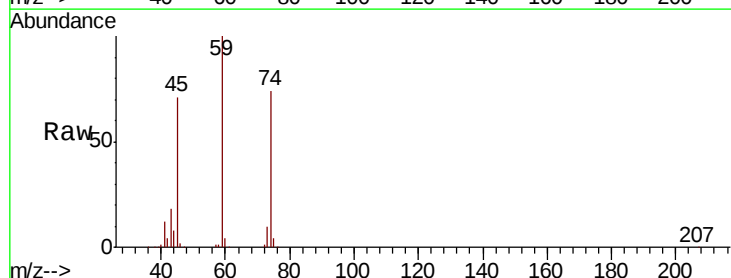
MMDadoda
12/20/2018 9:35:07 AM

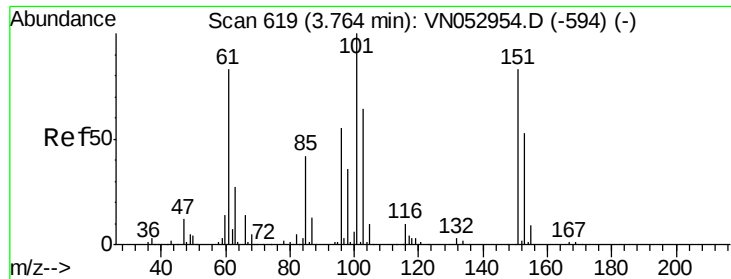


#8

Diethyl Ether
Concen: 20.618 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.8	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.734 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

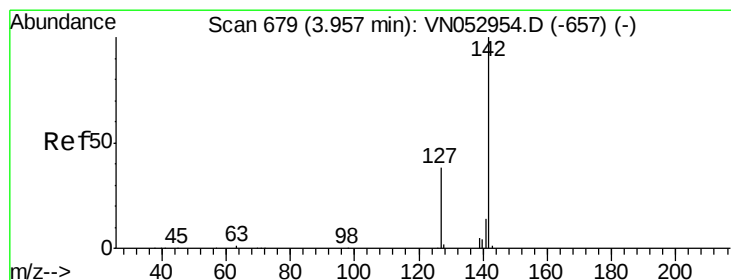
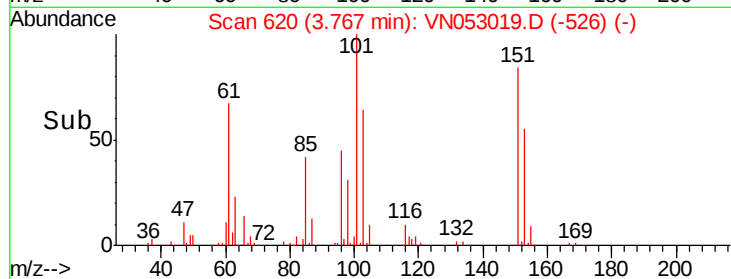
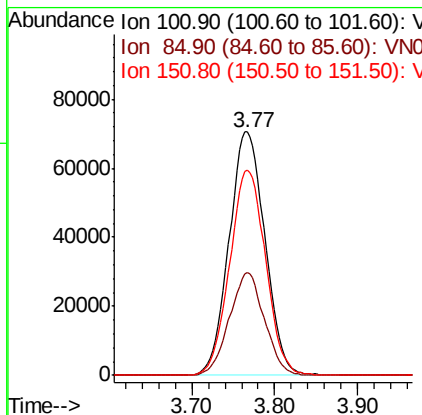
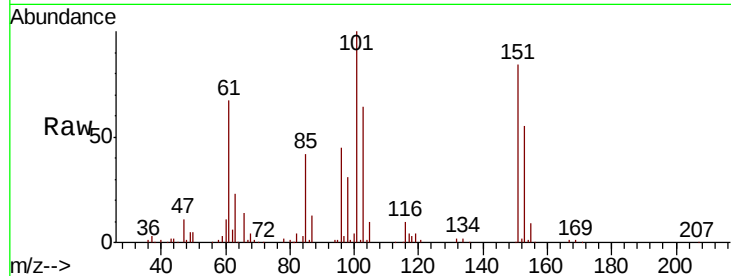
ClientSampleId :

VN1219WBSD01

Tot Ion:	101	Resp:	212508
Ion Ratio	Lower	Upper	
101	100		
85	41.2	33.6	50.4
151	84.3	65.5	98.3

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12/20/2018 9:35:07 AM



#10

Methyl Iodide

Concen: 19.601 ug/l

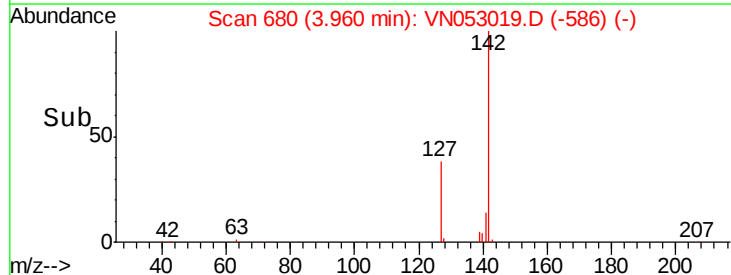
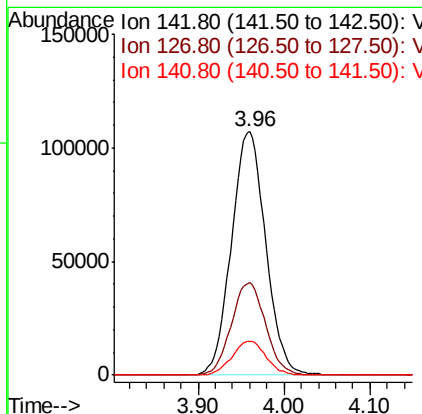
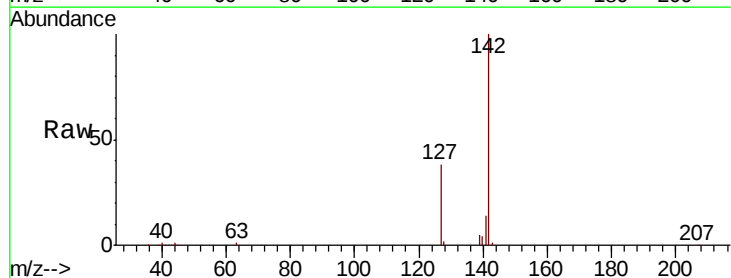
RT: 3.96 min Scan# 680

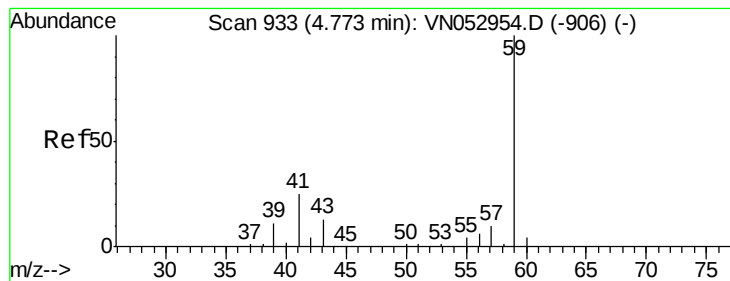
Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Tgt Ion:	142	Resp:	296429
Ion Ratio	Lower	Upper	
142	100		
127	37.9	31.0	46.6
141	13.8	11.2	16.8





#11

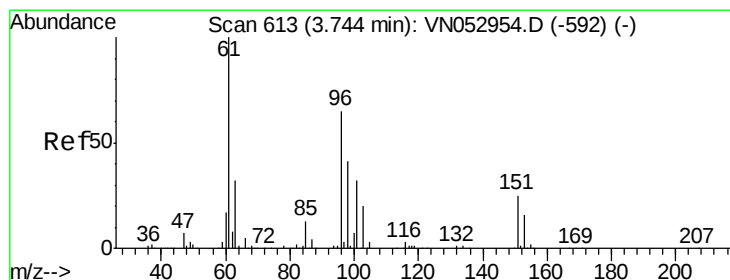
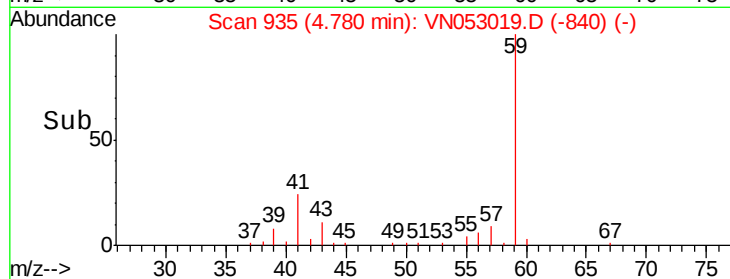
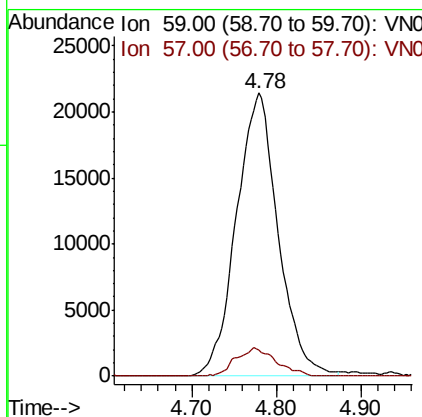
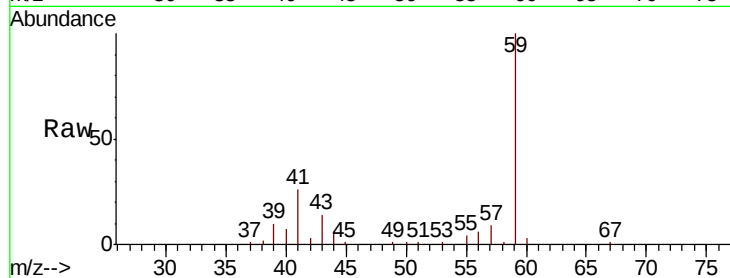
Tert butyl alcohol
 Concen: 109.016 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.01 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBSD01

Tot Ion	59.00 (58.70 to 59.70): VN0	Resp	73682
Ion	Ratio	Lower	Upper
59	100		
57	9.7	7.7	11.5

Manual Integrations
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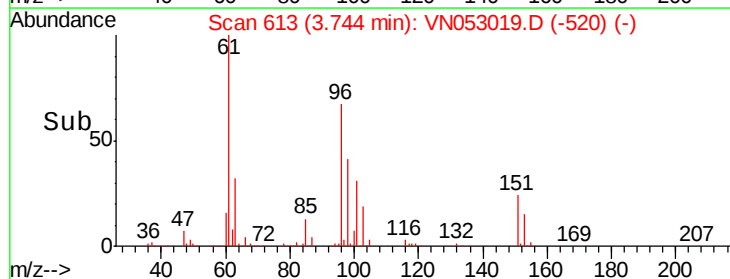
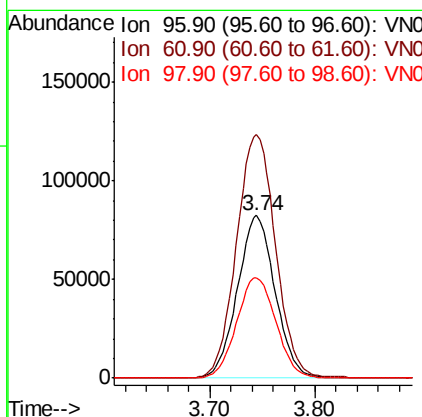
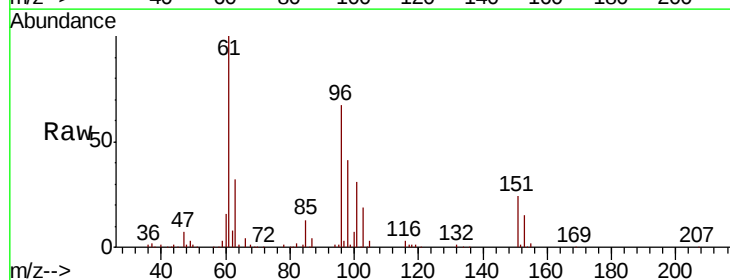
MMDadoda
 12/20/2018 9:35:07 AM

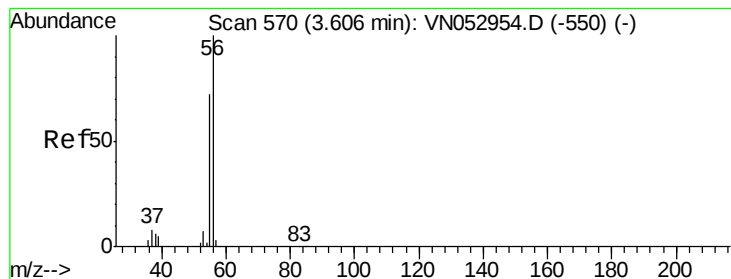


#12

1,1-Dichloroethene
 Concen: 19.711 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Tgt Ion	96	Resp	205069
Ion	Ratio	Lower	Upper
96	100		
61	149.7	125.6	188.4
98	62.0	50.6	75.8





#13

Acrolein

Concen: 125.442 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion: 56 Resp: 76877

Ion Ratio Lower Upper

56 100

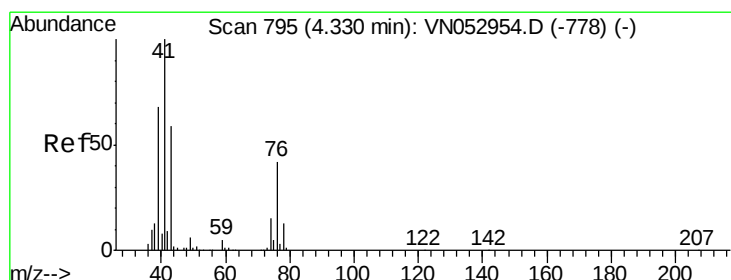
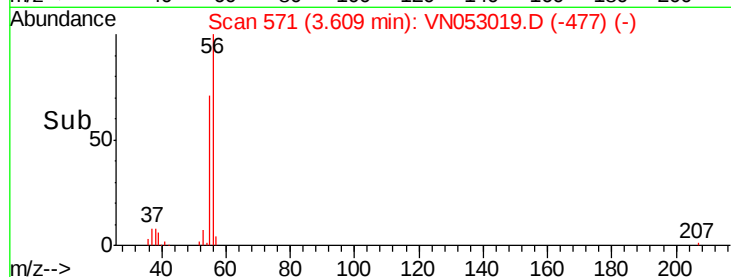
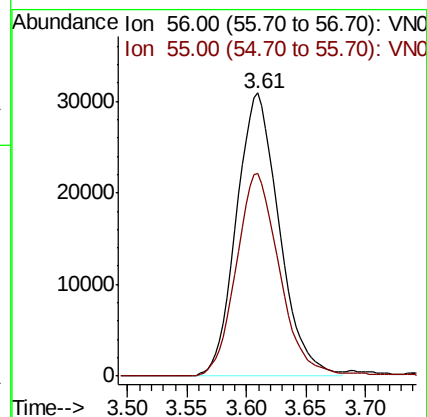
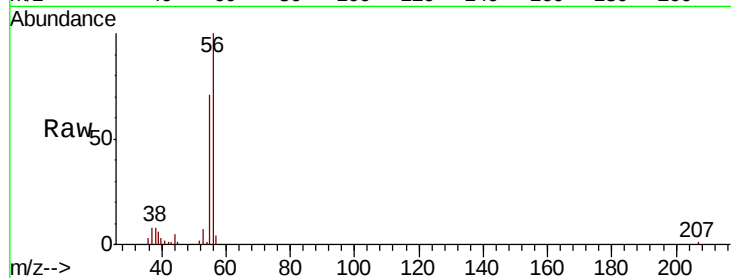
55 72.1 56.6 85.0

Manual Integrations

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#14

Allyl chloride

Concen: 19.181 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

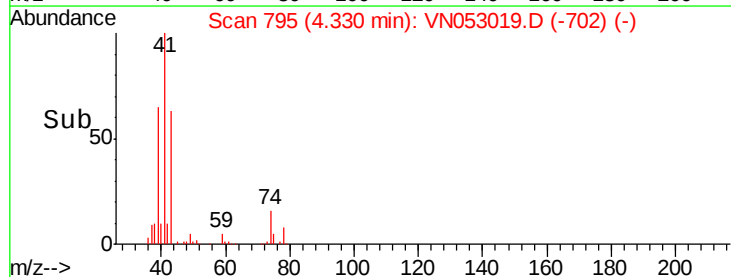
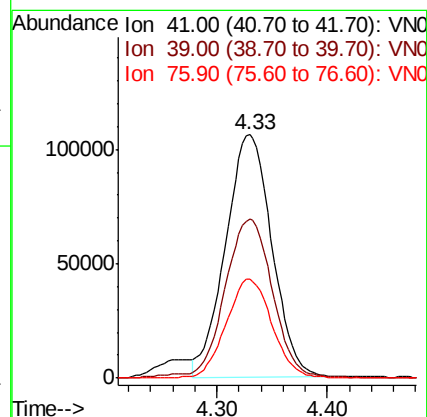
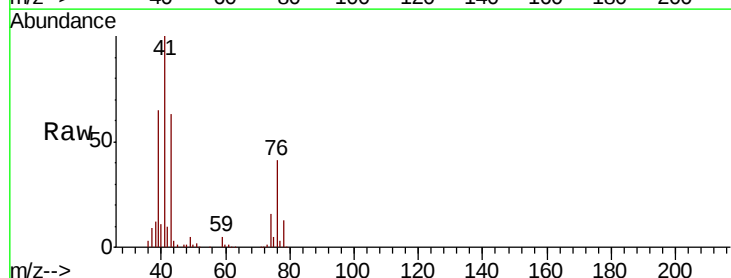
Tgt Ion: 41 Resp: 309112

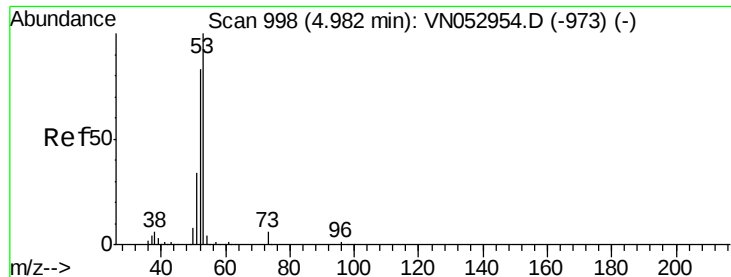
Ion Ratio Lower Upper

41 100

39 68.3 54.1 81.1

76 40.0 30.3 45.5





#15

Acrylonitrile

Concen: 104.569 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

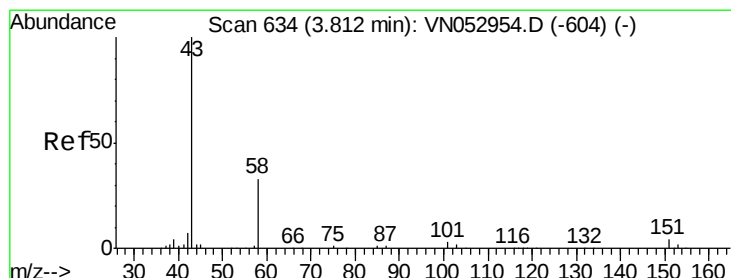
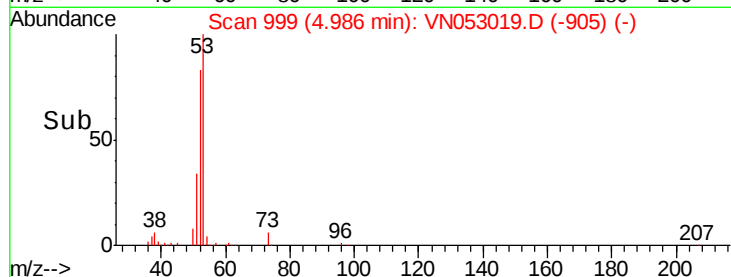
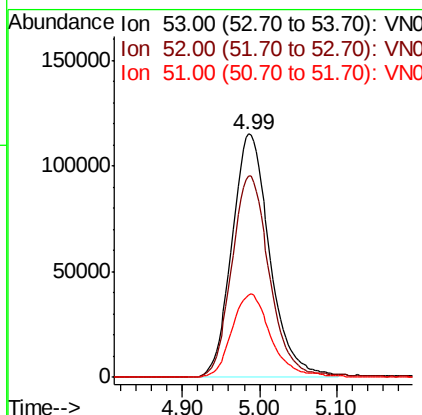
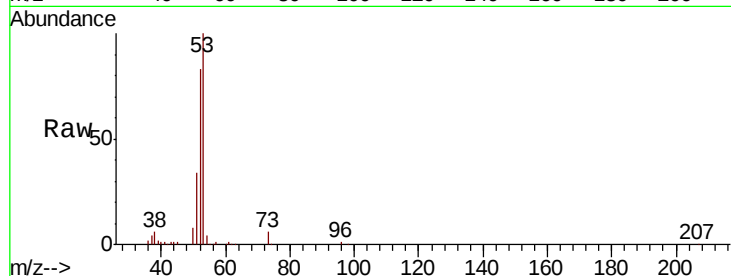
ClientSampleId :

VN1219WBSD01

Tot Ion:	53	Resp:	392641
Ion Ratio	Lower	Upper	
53	100		
52	81.6	65.1	97.7
51	34.6	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 113.714 ug/l

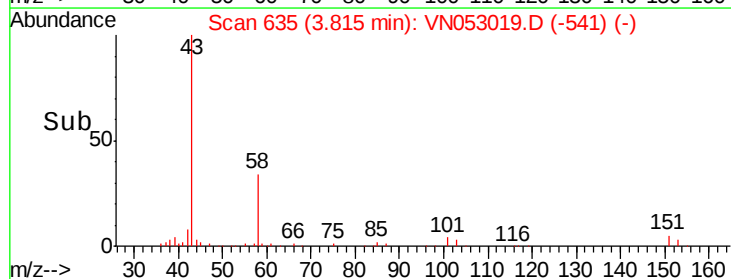
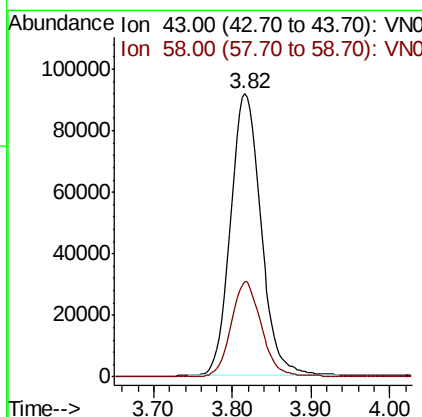
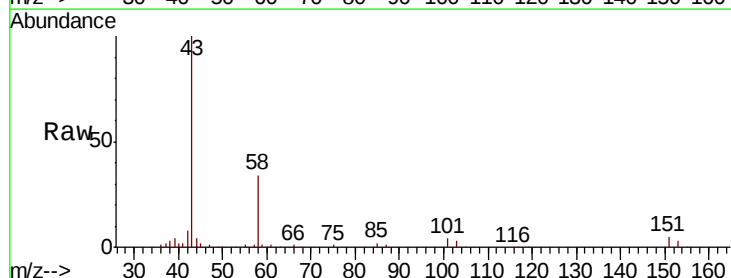
RT: 3.82 min Scan# 635

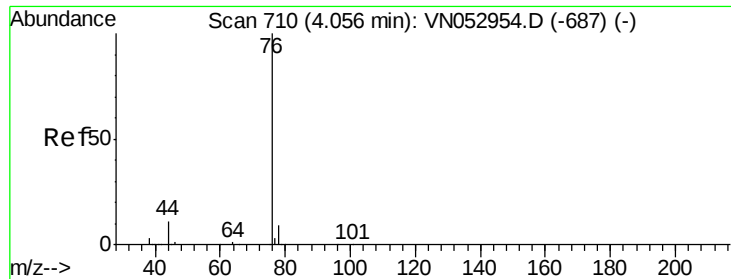
Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Tgt Ion:	43	Resp:	246973
Ion Ratio	Lower	Upper	
43	100		
58	34.0	25.4	38.0





#17

Carbon Disulfide

Concen: 17.104 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion: 76 Resp: 580345

Ion Ratio Lower Upper

76 100

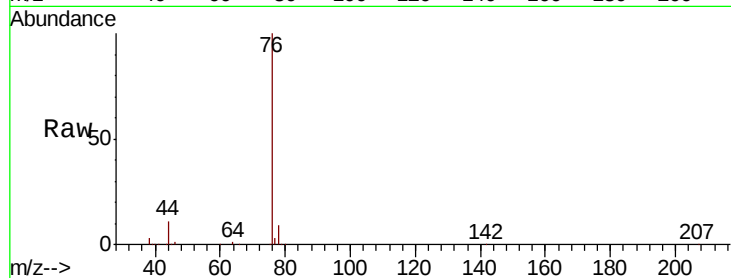
78 9.1 7.1 10.7

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN053019.D (-617) (-)

Ion 77.90 (77.60 to 78.60): VN053019.D (-617) (-)

250000

200000

150000

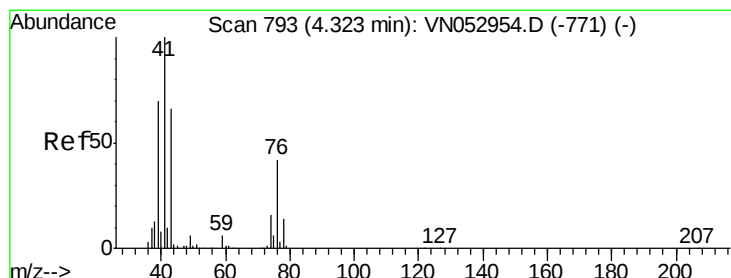
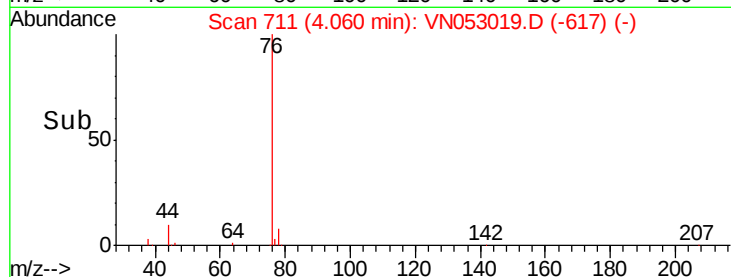
100000

50000

0

4.00 4.10

Time-->



#18

Methyl Acetate

Concen: 20.870 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053019.D

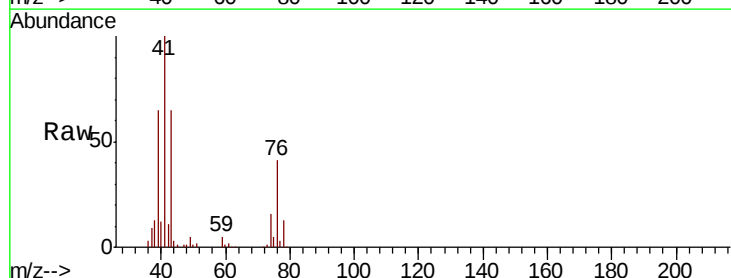
Acq: 19 Dec 2018 18:50

Tgt Ion: 43 Resp: 199914

Ion Ratio Lower Upper

43 100

74 24.2 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN053019.D (-700) (-)

Ion 74.00 (73.70 to 74.70): VN053019.D (-700) (-)

80000

60000

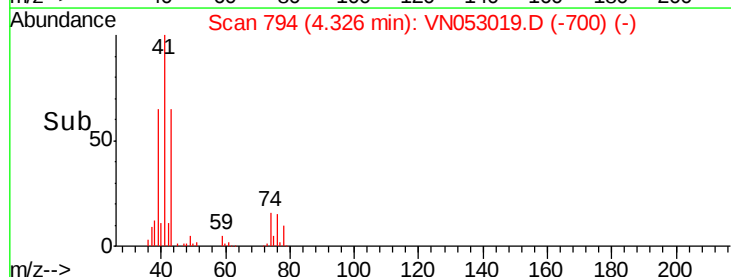
40000

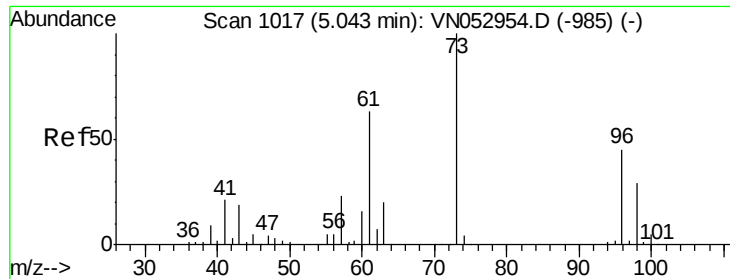
20000

0

4.20 4.30 4.40

Time-->





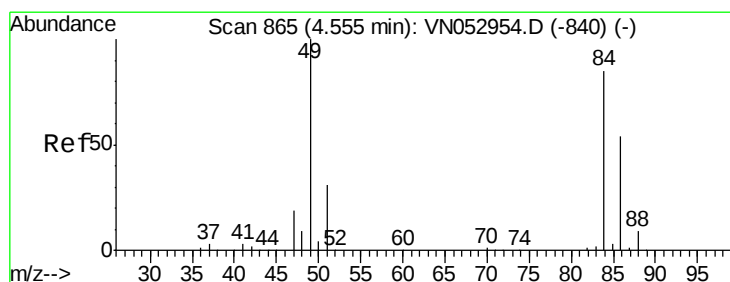
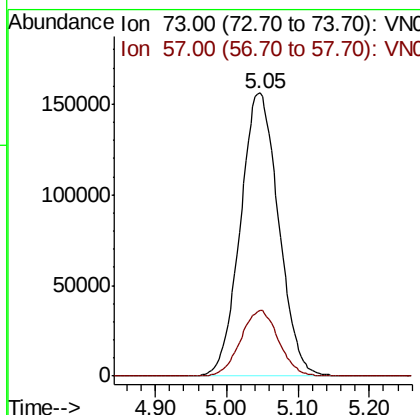
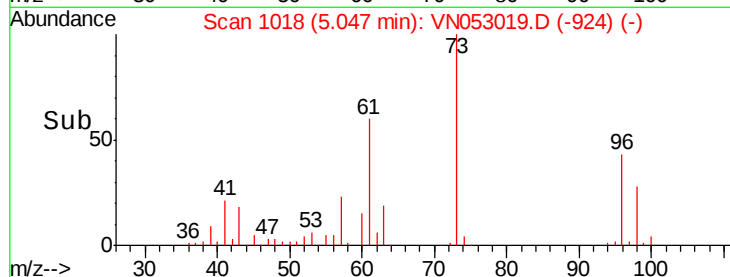
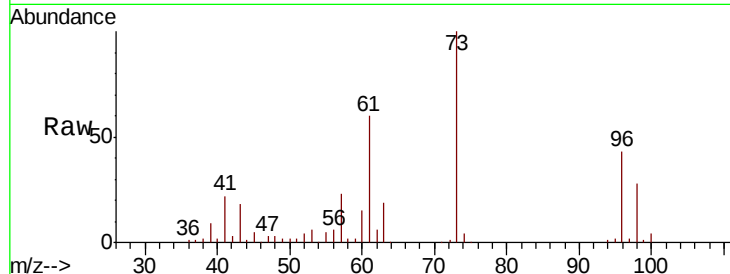
#19
Methvl tert-butvl Ether
Concen: 20.870 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion: 73 Resp: 581047
Ion Ratio Lower Upper
73 100
57 23.3 18.4 27.6

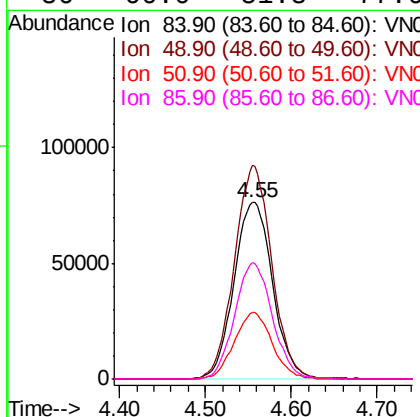
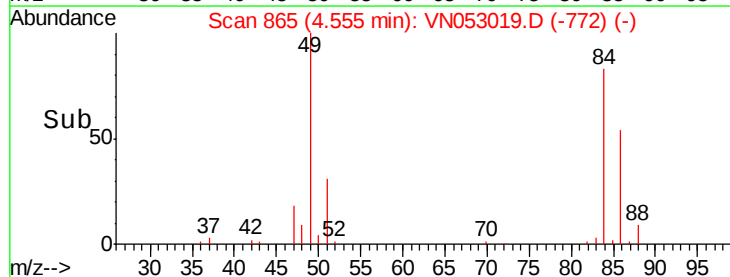
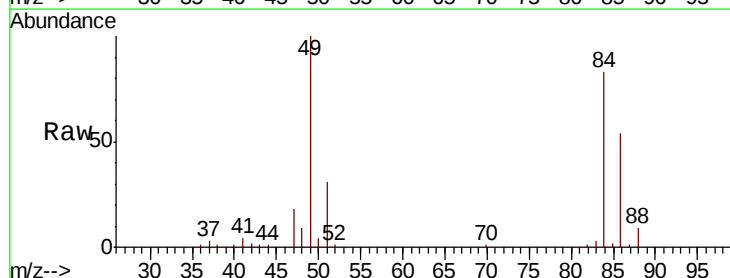
Manual Integrations
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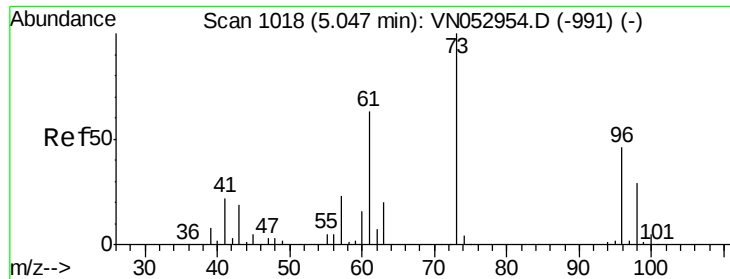
MMDadoda
12/20/2018 9:35:07 AM



#20
Methylene Chloride
Concen: 20.141 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion: 84 Resp: 238616
Ion Ratio Lower Upper
84 100
49 121.2 96.8 145.2
51 37.9 29.9 44.9
86 66.0 51.8 77.6





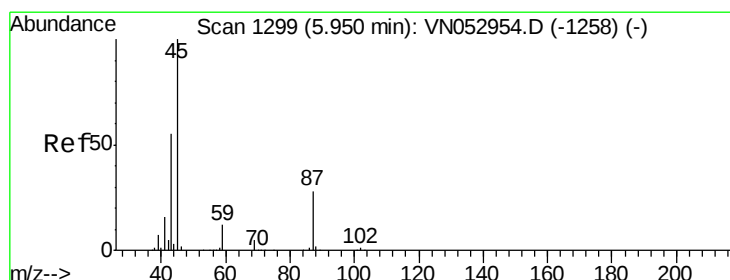
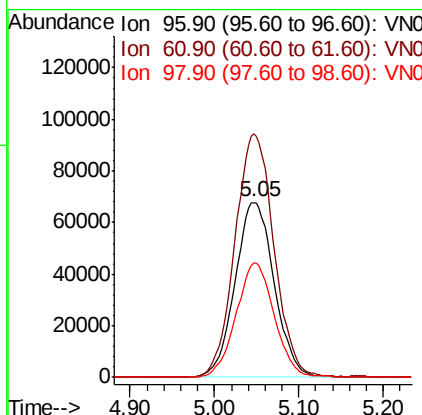
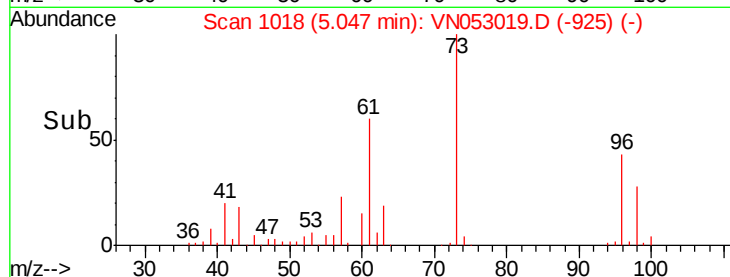
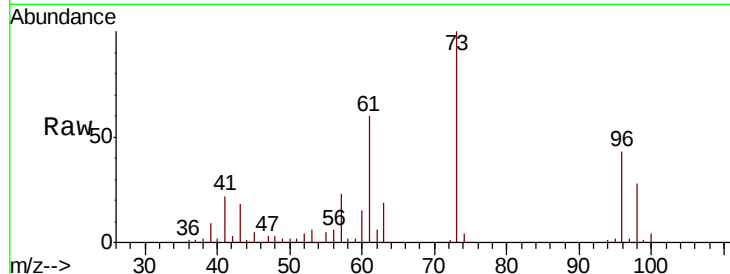
#21
trans-1,2-Dichloroethene
Concen: 19.576 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.0	110.8	166.2
98	65.4	51.4	77.2

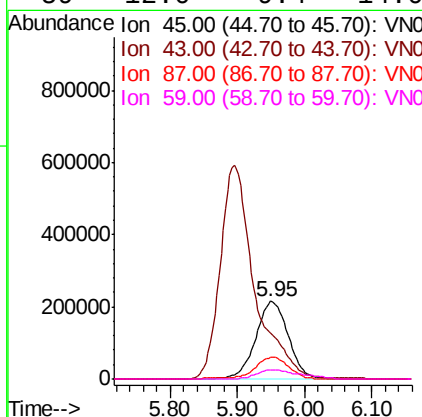
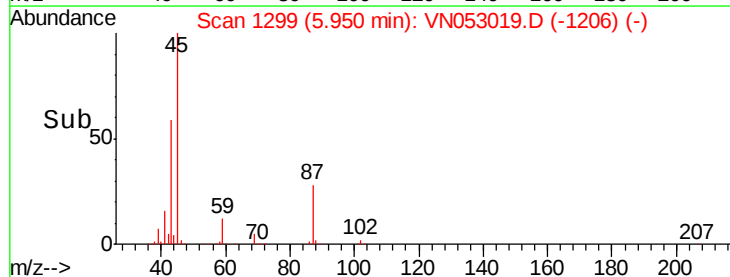
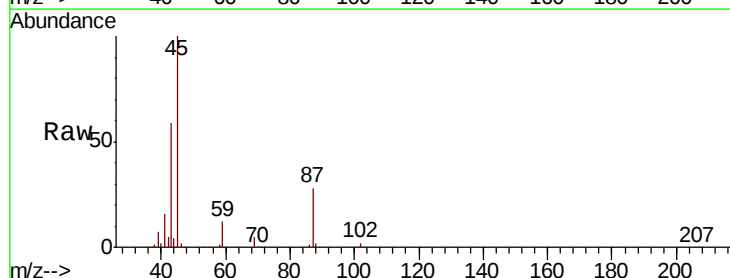
Manual Integrations
APPROVED

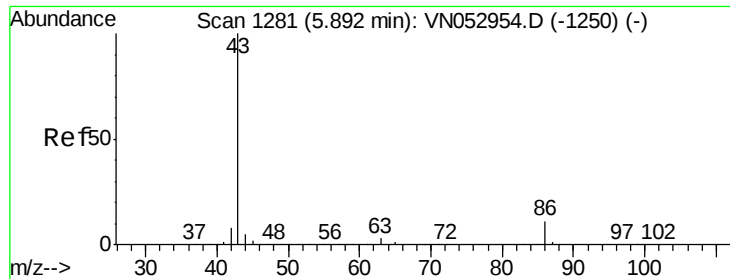
MMDadoda
12/20/2018 9:35:07 AM



#22
Diisopropyl ether
Concen: 21.021 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.5	45.5	68.3
87	28.1	22.0	33.0
59	12.0	9.4	14.0





#23

Vinyl Acetate

Concen: 106.365 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion: 43 Resp: 2103892

Ion Ratio Lower Upper

43 100

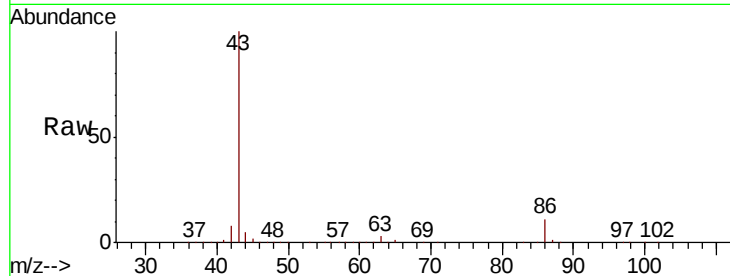
86 10.6 8.1 12.1

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN053019.D (-1188) (-)

Ion 86.00 (85.70 to 86.70): VN053019.D (-1188) (-)

5.90

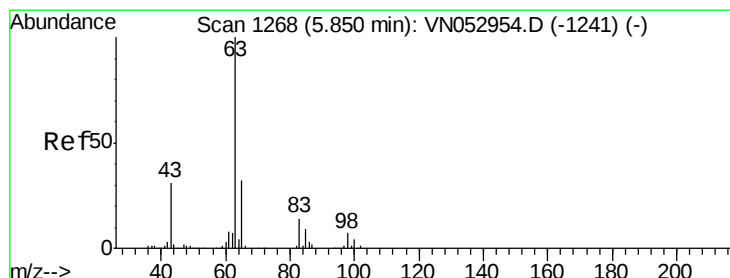
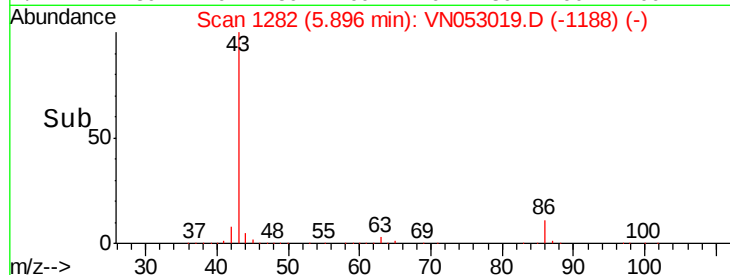
600000

400000

200000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 20.333 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

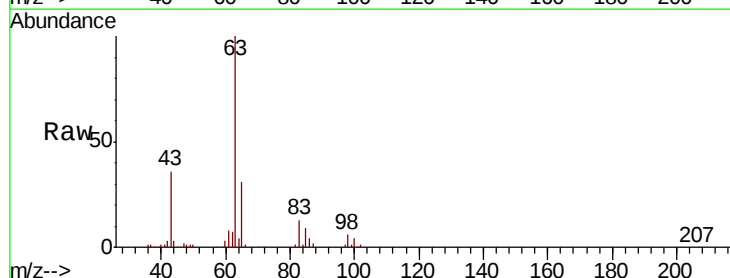
Tgt Ion: 63 Resp: 415618

Ion Ratio Lower Upper

63 100

98 6.5 3.1 9.4

100 4.4 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN053019.D (-1175) (-)

Ion 97.90 (97.60 to 98.60): VN053019.D (-1175) (-)

Ion 99.90 (99.60 to 100.60): VN053019.D (-1175) (-)

5.85

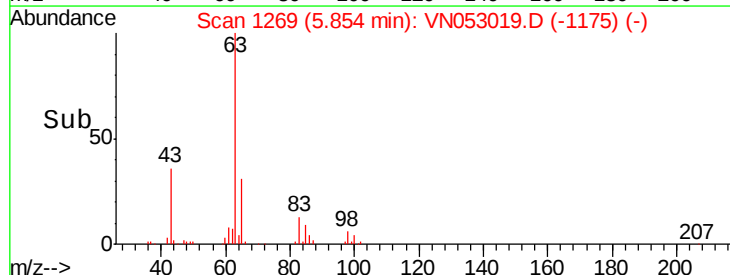
150000

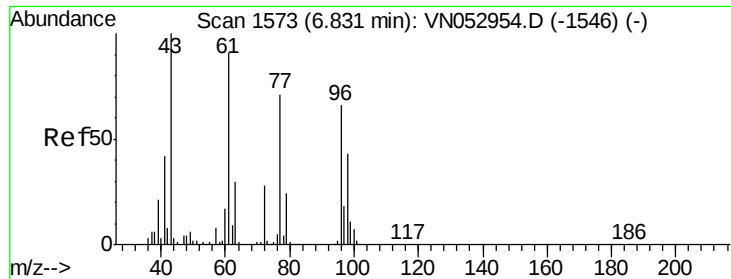
100000

50000

0

Time--> 5.70 5.80 5.90 6.00





#25

2-Butanone

Concen: 112.520 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion: 43 Resp: 410128

Ion Ratio Lower Upper

43 100

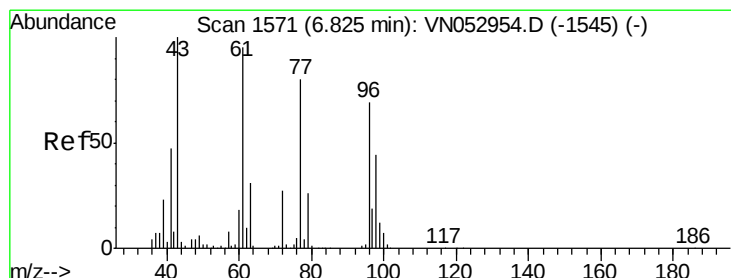
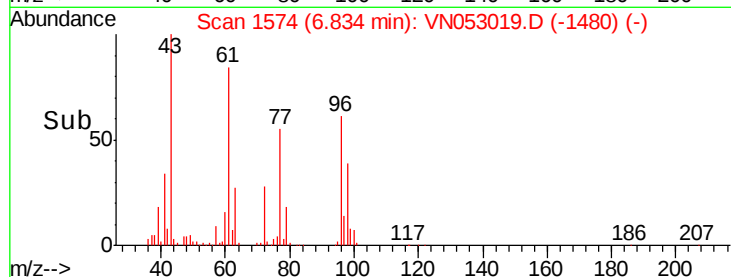
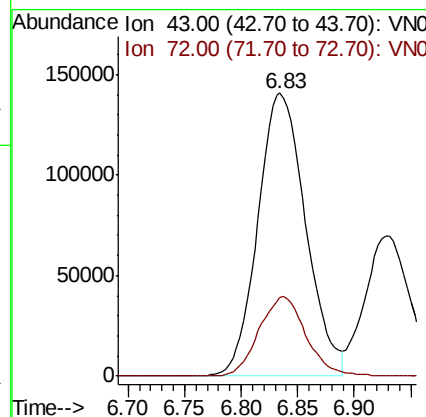
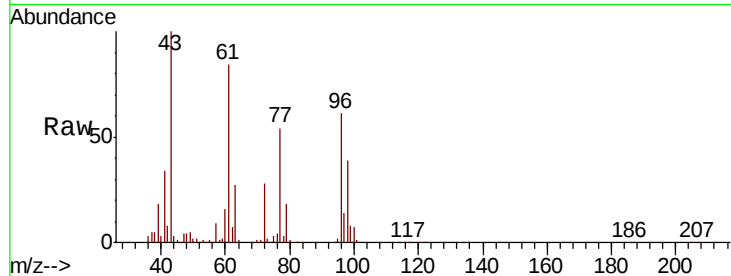
72 27.9 21.0 31.6

Manual Integrations

APPROVED

MMDadoda

12/20/2018 9:35:07 AM



#26

2,2-Dichloropropane

Concen: 16.745 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053019.D

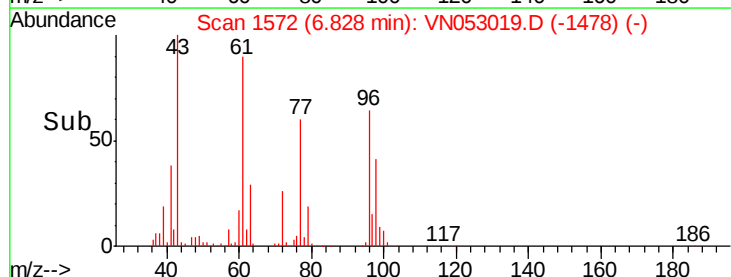
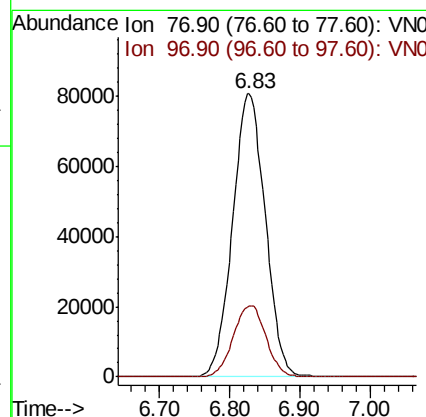
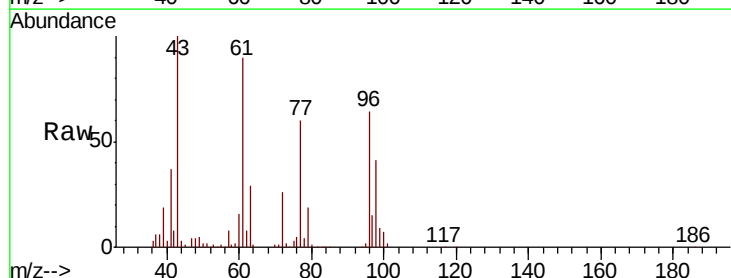
Acq: 19 Dec 2018 18:50

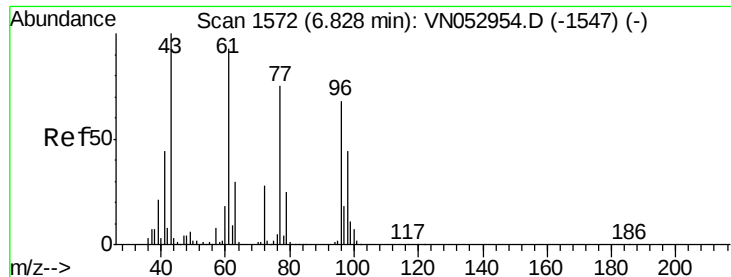
Tgt Ion: 77 Resp: 261275

Ion Ratio Lower Upper

77 100

97 25.1 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 20.083 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

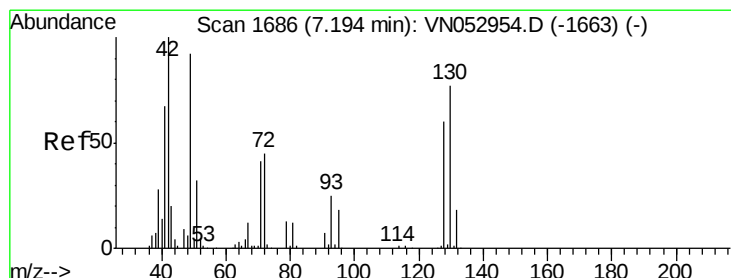
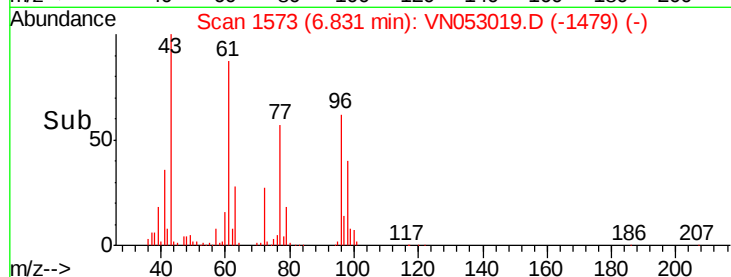
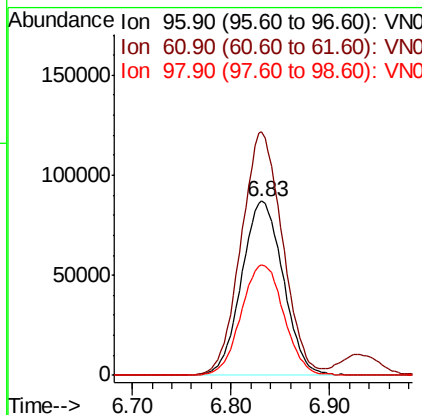
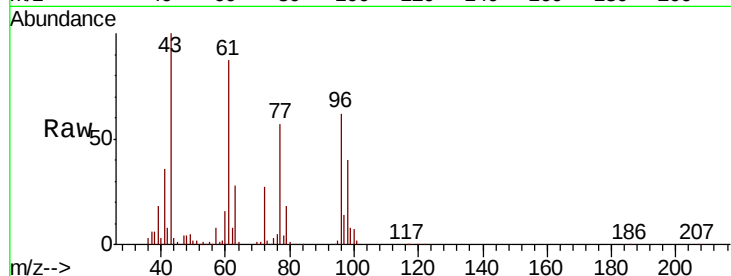
ClientSampleId :

VN1219WBSD01

Tot Ion:	96	Resp:	254150
Ion	Ratio	Lower	Upper
96	100		
61	138.9	0.0	284.2
98	65.0	0.0	129.2

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#28

Bromochloromethane

Concen: 20.644 ug/l

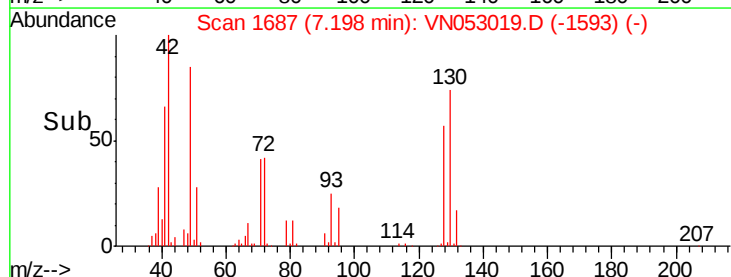
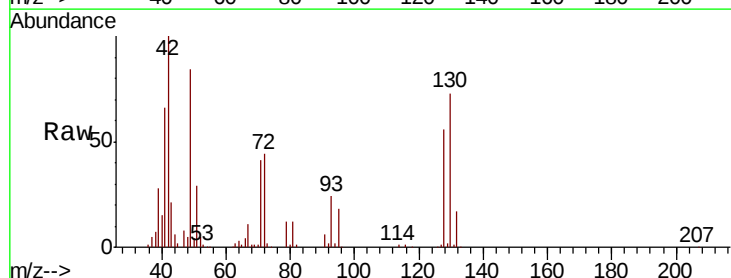
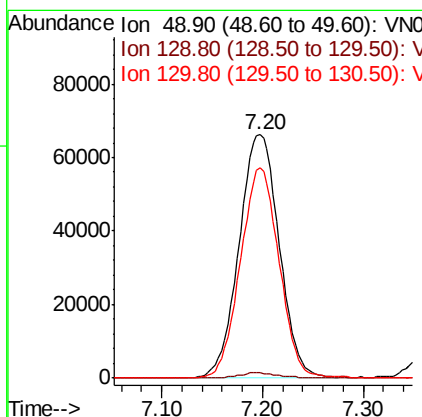
RT: 7.20 min Scan# 1687

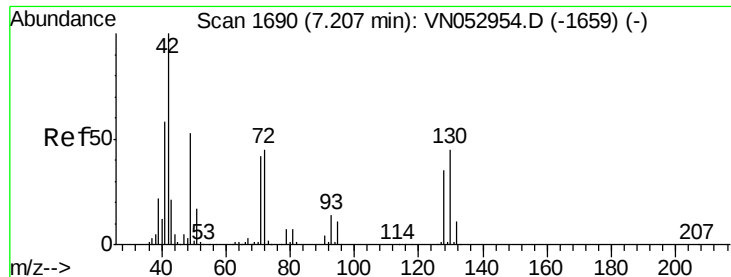
Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Tgt Ion:	49	Resp:	182851
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.0
130	83.4	63.3	94.9





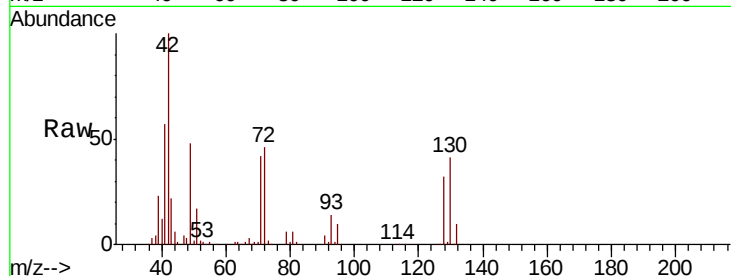
#29
Tetrahydrofuran
Concen: 107.513 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

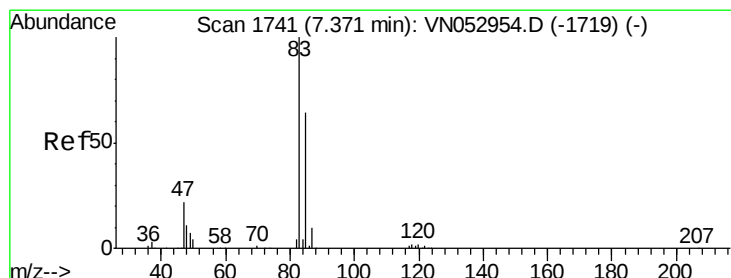
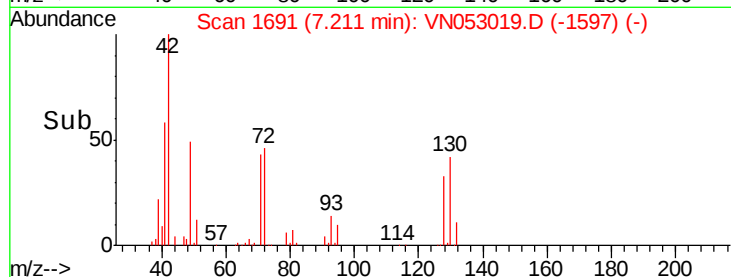
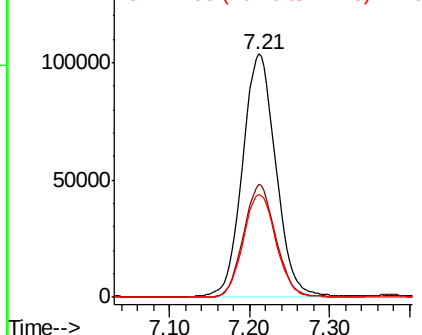
Tot Ion	Ratio	Lower	Upper
42	100		
72	45.1	34.7	52.1
71	41.9	32.3	48.5

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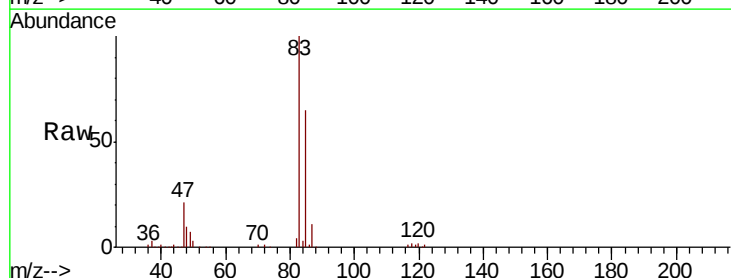


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

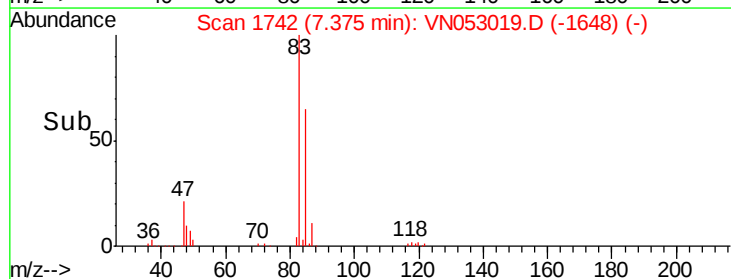
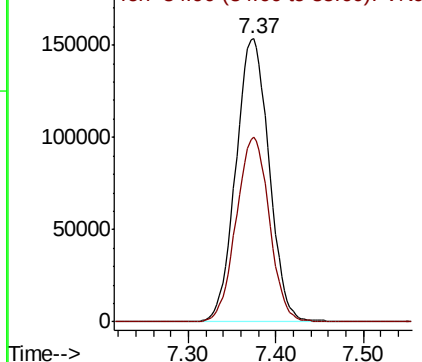


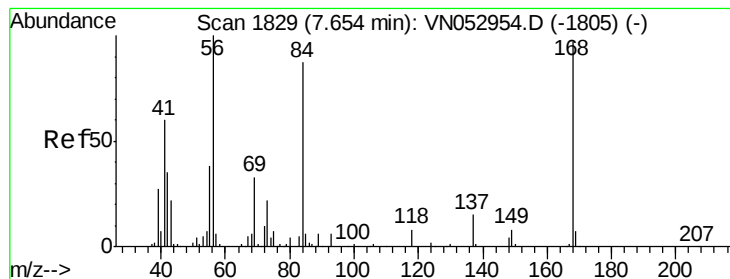
#30
Chloroform
Concen: 20.170 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.1	78.1



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 20.339 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

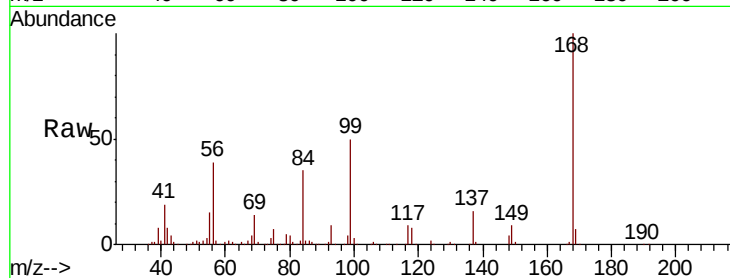
ClientSampleId :

VN1219WBSD01

Tot Ion:	56	Resp:	401856
Ion Ratio	Lower	Upper	
56	100		
69	36.6	26.6	39.8
84	86.7	68.4	102.6

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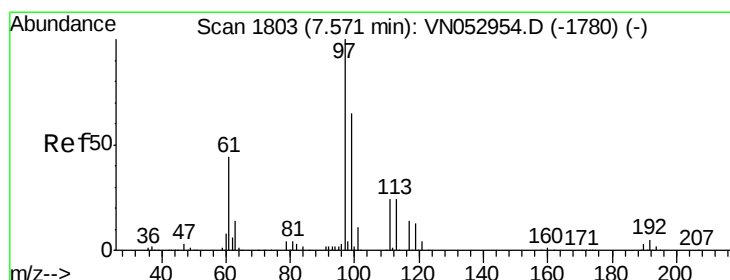
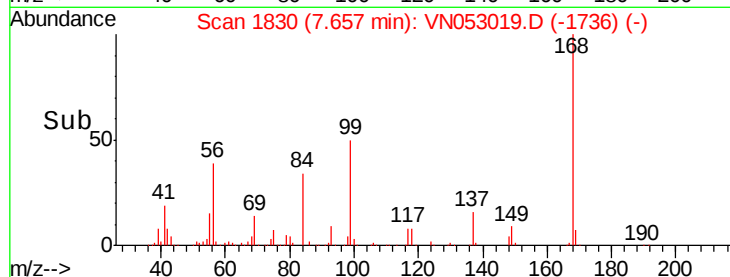
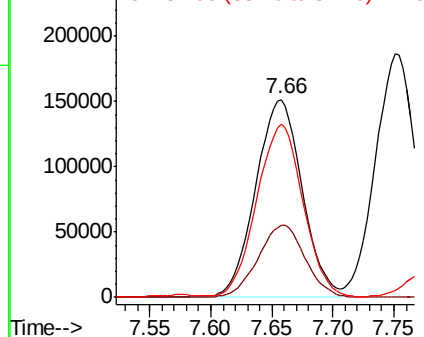


Abundance

Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 19.563 ug/l

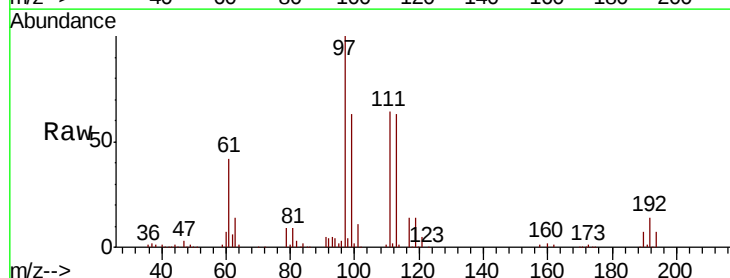
RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Tgt Ion:	97	Resp:	334623
Ion Ratio	Lower	Upper	
97	100		
99	64.1	51.1	76.7
61	42.7	35.0	52.6

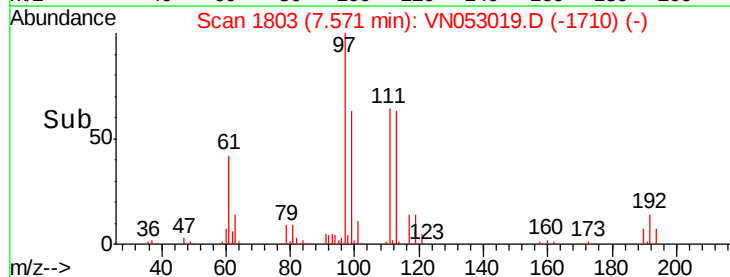
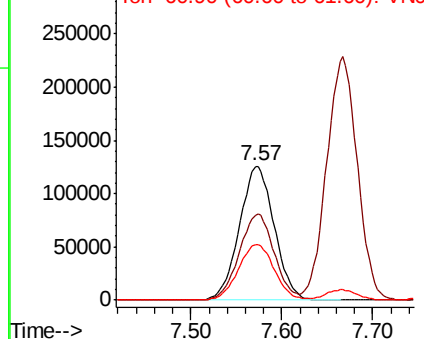


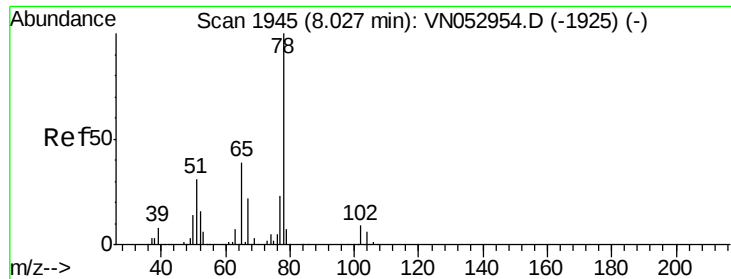
Abundance

Ion 96.90 (96.60 to 97.60): VNO

Ion 98.90 (98.60 to 99.60): VNO

Ion 60.90 (60.60 to 61.60): VNO





#33

1,2-Dichloroethane-d4

Concen: 19.563 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion: 65 Resp: 574077

Ion Ratio Lower Upper

65 100

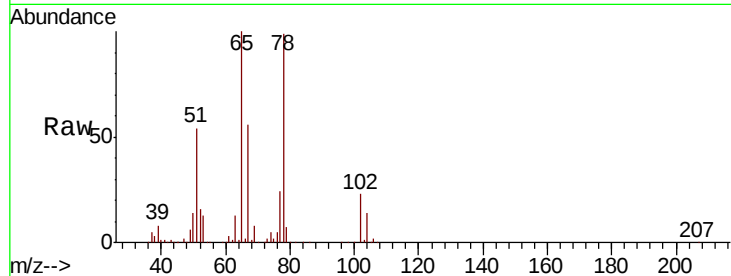
67 55.1 0.0 110.4

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Abundance Ion 64.90 (64.60 to 65.60): VN053019.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN053019.D (-1852) (-)

8.03

250000

200000

150000

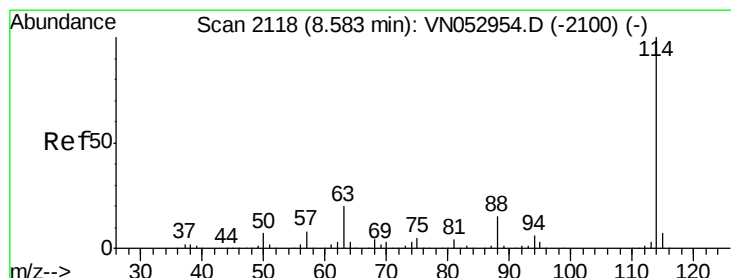
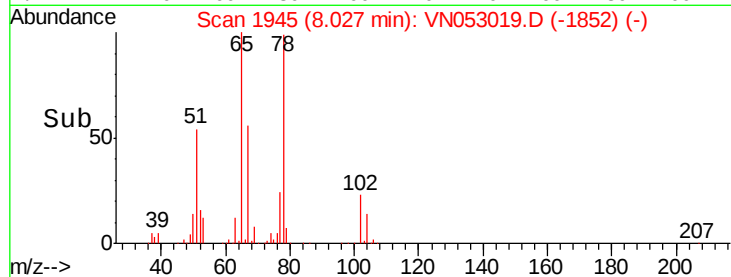
100000

50000

0

7.90 7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

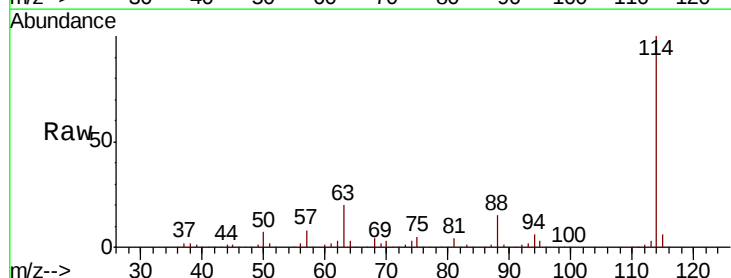
Tgt Ion: 114 Resp: 1682165

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.8

88 15.2 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN053019.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN053019.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN053019.D (-2025) (-)

8.59

1000000

800000

600000

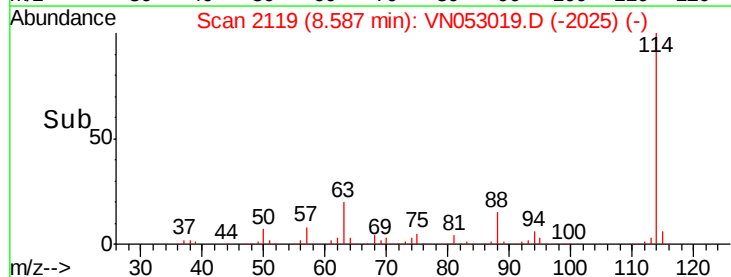
400000

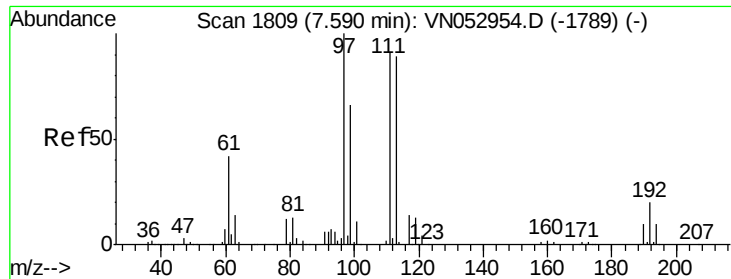
200000

0

8.50 8.55 8.60 8.65 8.70

Time-->





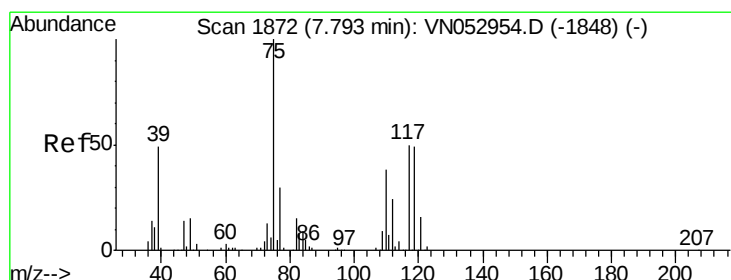
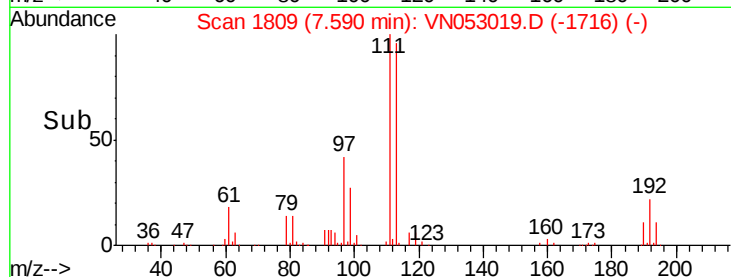
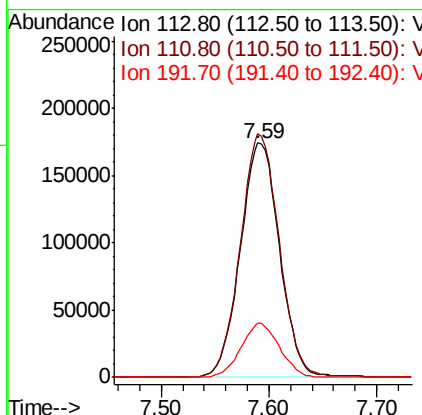
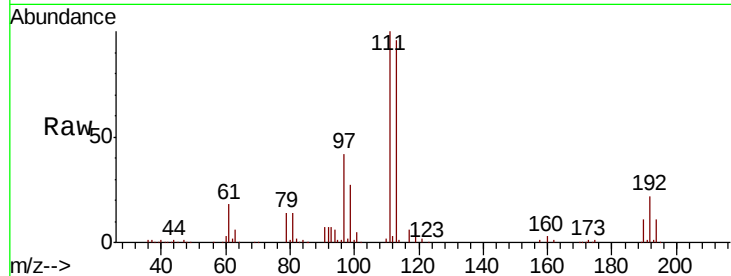
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	440405		
111	103.7	83.0	124.4	
192	22.8	17.5	26.3	

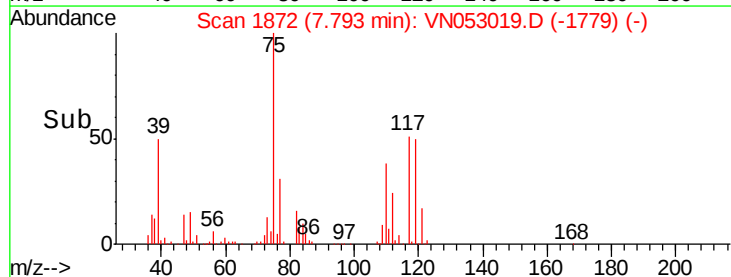
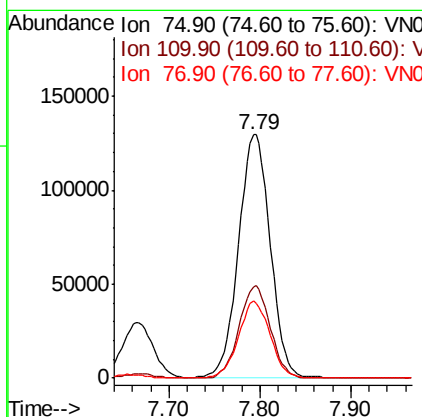
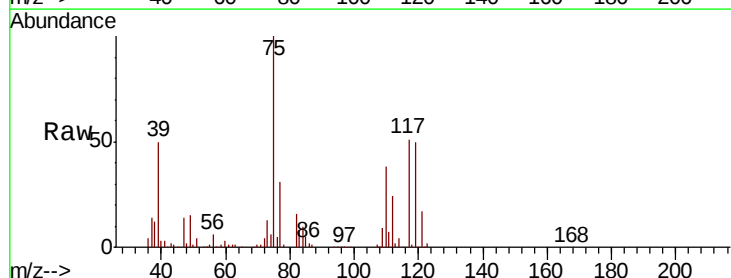
Manual Integrations
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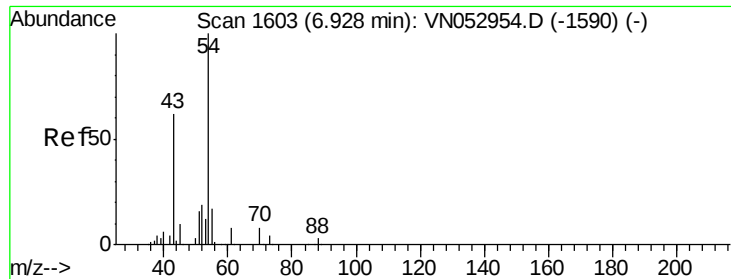
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#36
1,1-Dichloropropene
Concen: 19.360 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	312577		
110	37.2	18.2	54.6	
77	31.6	24.9	37.3	





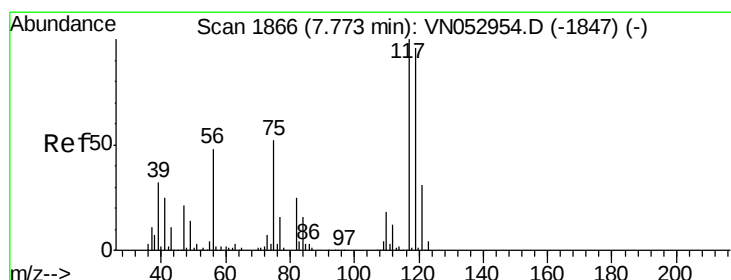
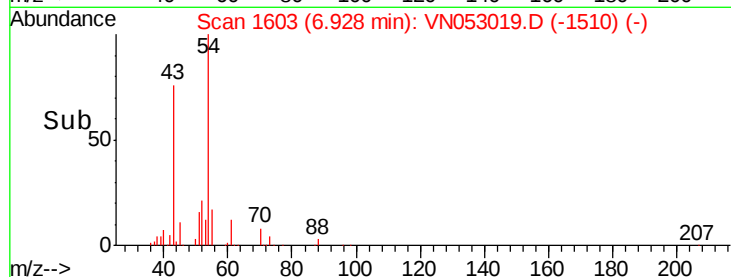
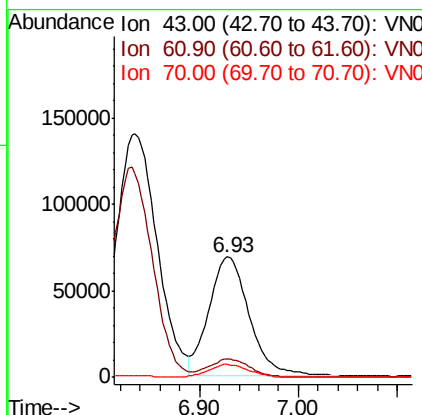
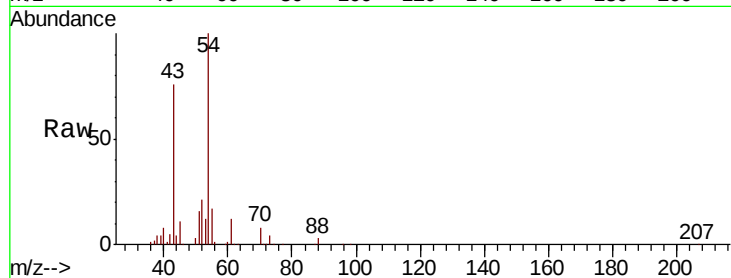
#37
Ethyl Acetate
Concen: 21.908 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	11.8	17.6
70	10.8	8.4	12.6

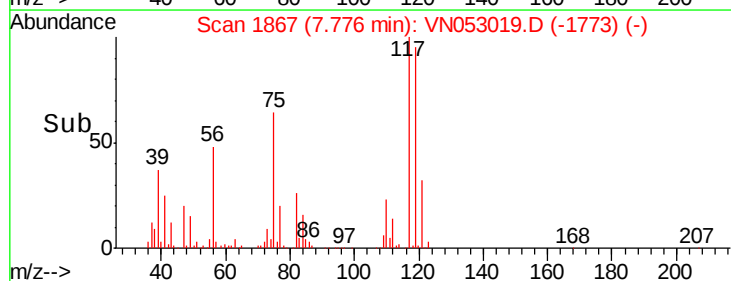
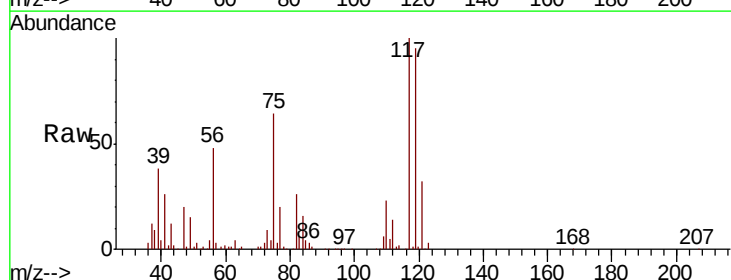
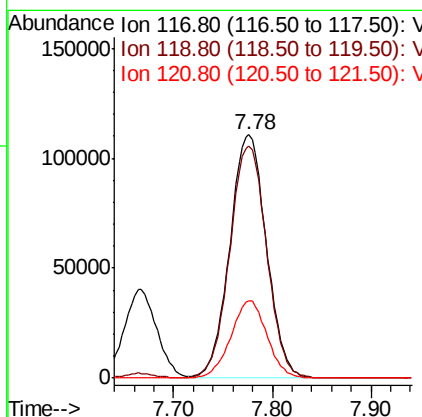
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#38
Carbon Tetrachloride
Concen: 19.221 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.1	115.7
121	31.8	24.9	37.3





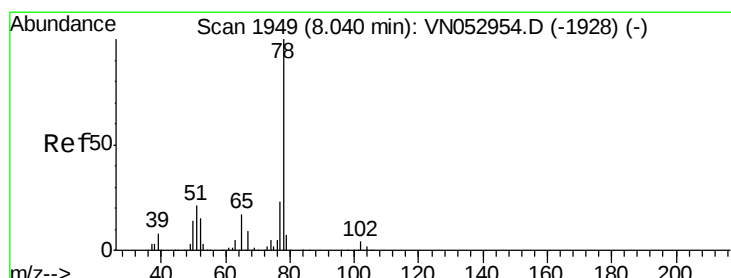
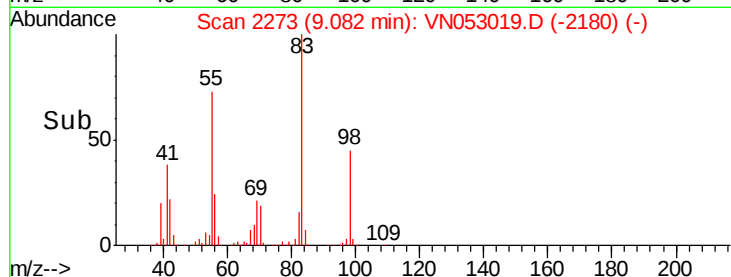
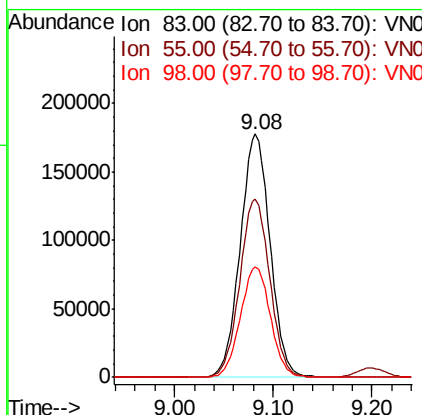
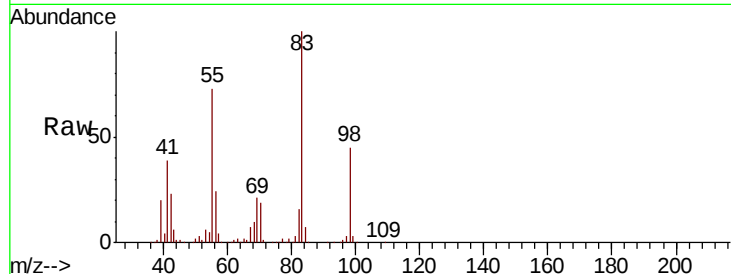
#39
Methvlcvclohexane
Concen: 18.954 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.3	61.3	91.9
98	45.3	37.0	55.4

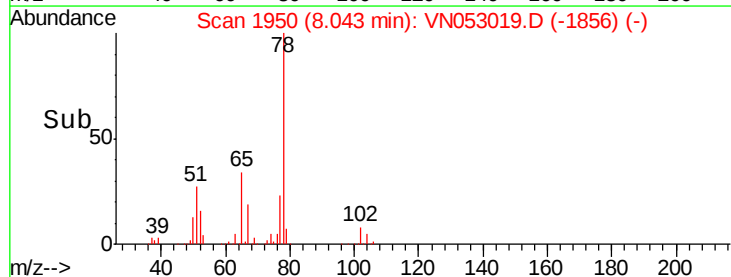
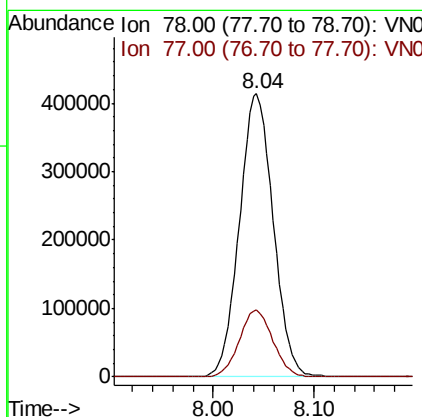
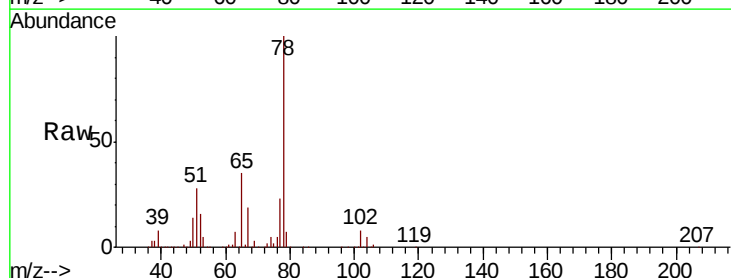
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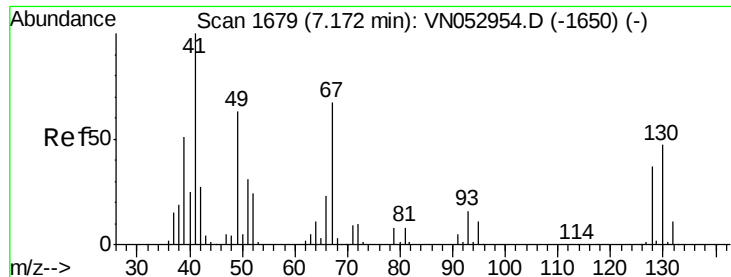
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#40
Benzene
Concen: 19.973 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.5	27.7





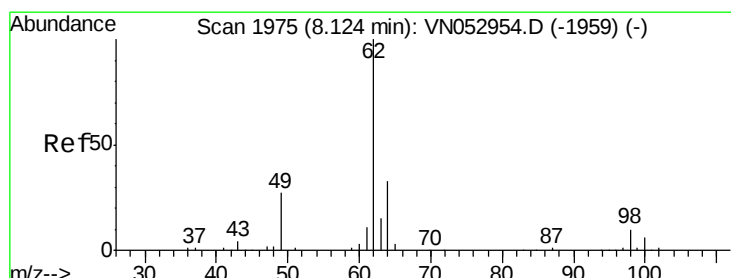
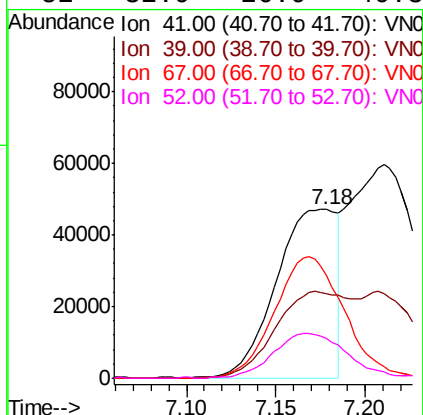
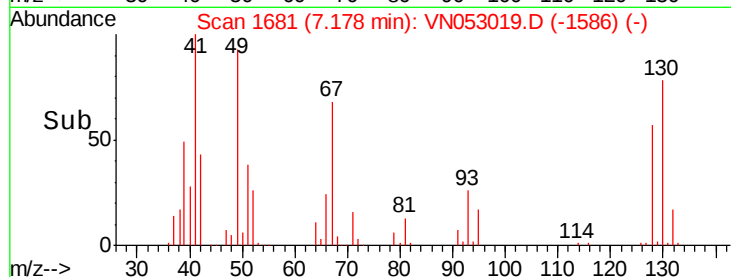
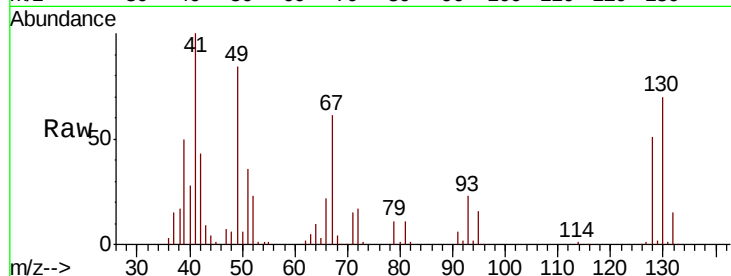
#41
Methacrylonitrile
Concen: 21.316 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	41	Resp	111011
Ion Ratio	Lower	Upper	
41	100		
39	59.7	48.0	72.0
67	83.2	70.3	105.5
52	32.9	26.9	40.3

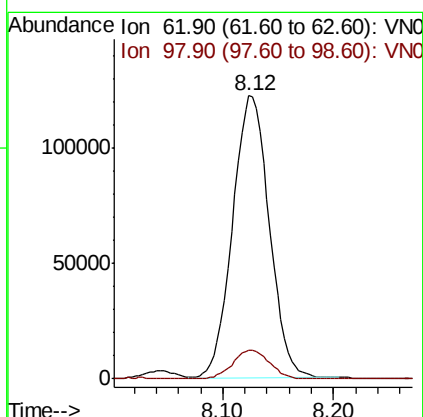
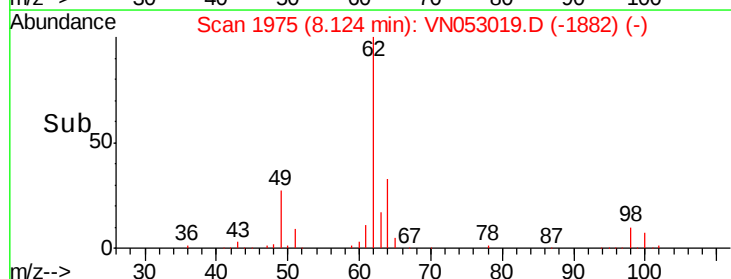
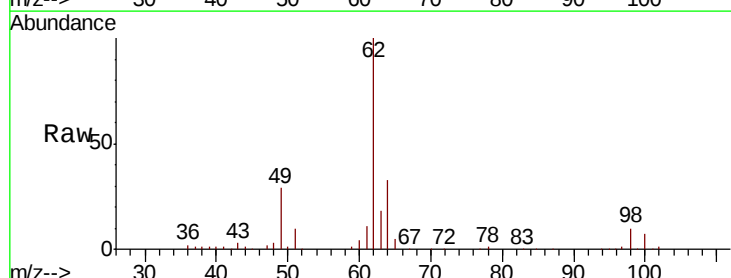
Manual Integrations
APPROVED

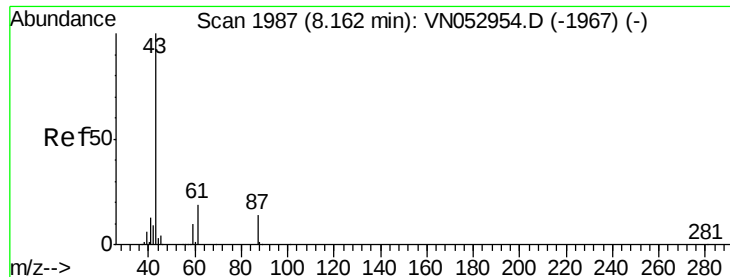
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#42
1,2-Dichloroethane
Concen: 19.961 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	62	Resp	283202
Ion Ratio	Lower	Upper	
62	100		
98	10.2	0.0	19.0





#43

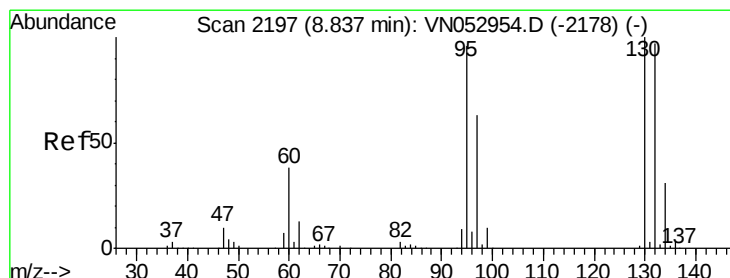
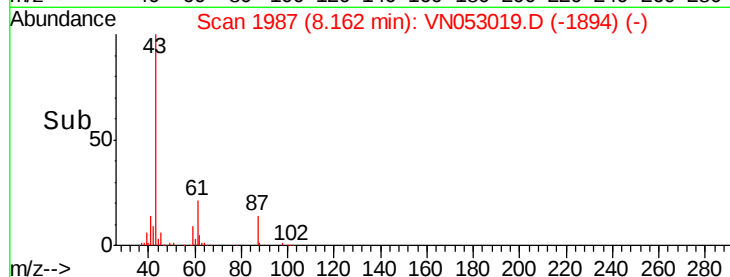
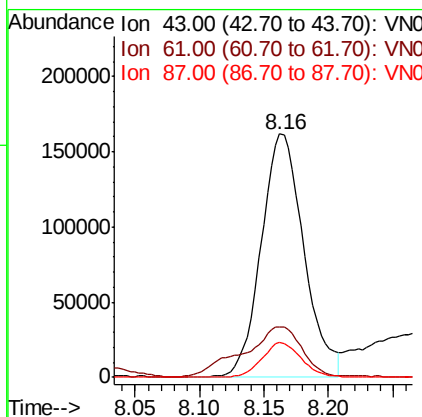
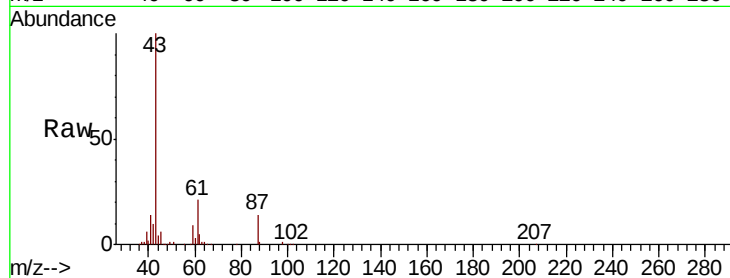
Isopropyl Acetate
 Concen: 20.671 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.1	22.9	34.3
87	13.3	10.6	15.8

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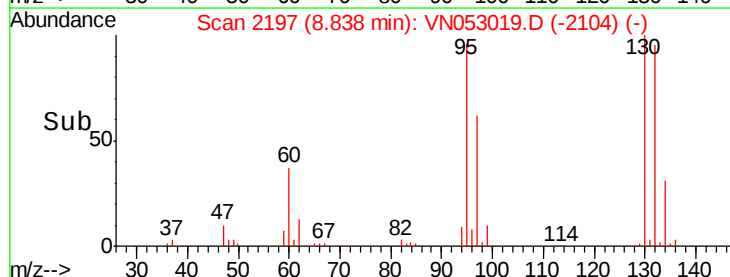
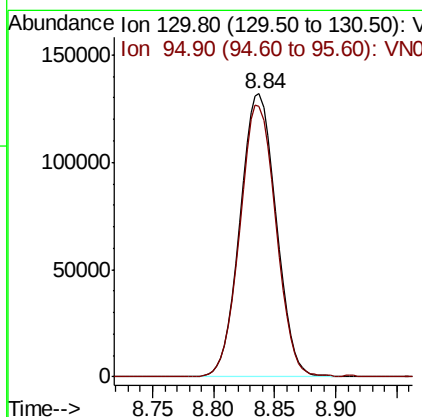
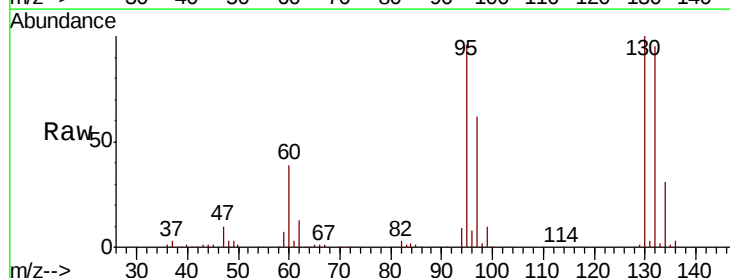
MMDadoda
 12/20/2018 9:35:07 AM

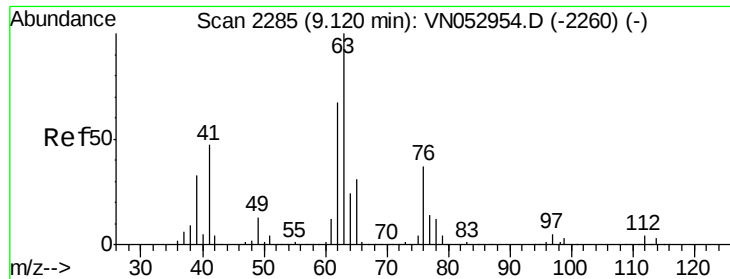


#44

Trichloroethene
 Concen: 19.444 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.6	0.0	197.8





#45

1,2-Dichloropropane

Concen: 20.409 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion: 63 Resp: 255300

Ion Ratio Lower Upper

63 100

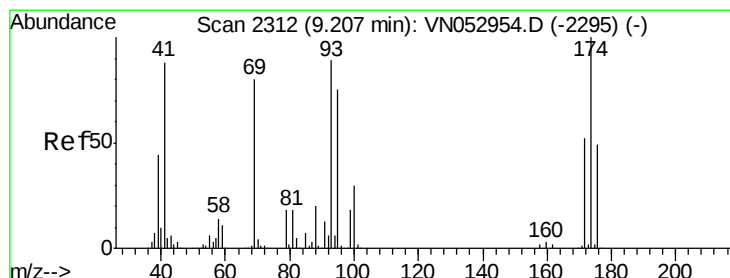
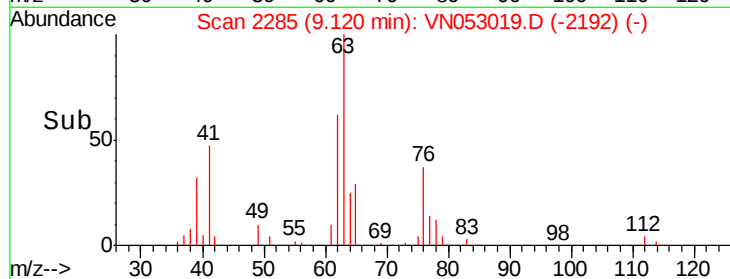
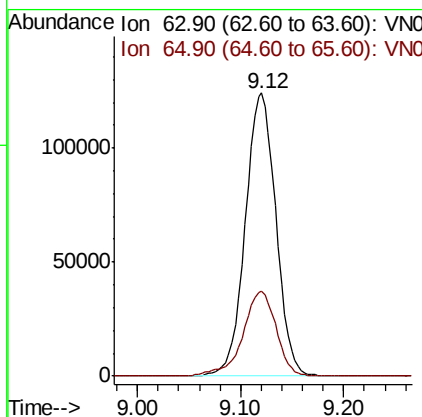
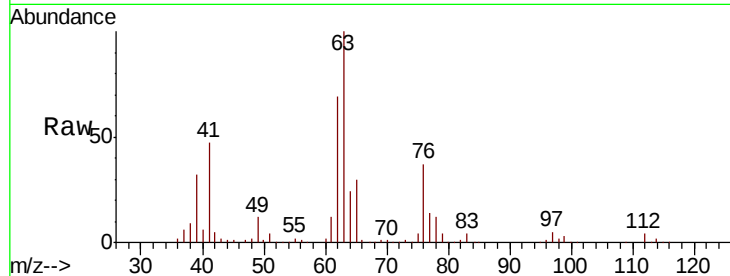
65 29.9 24.6 37.0

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#46

Dibromomethane

Concen: 20.209 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

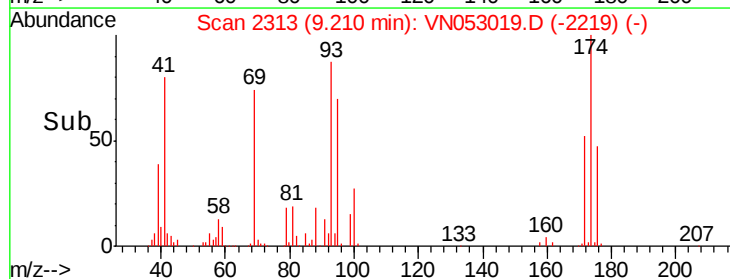
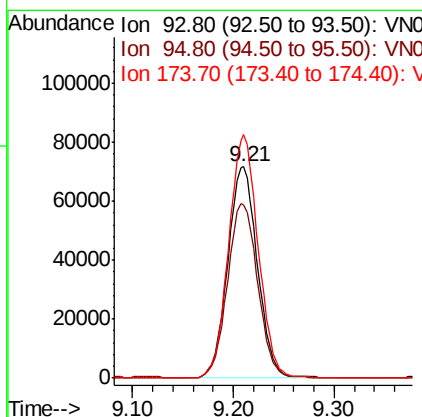
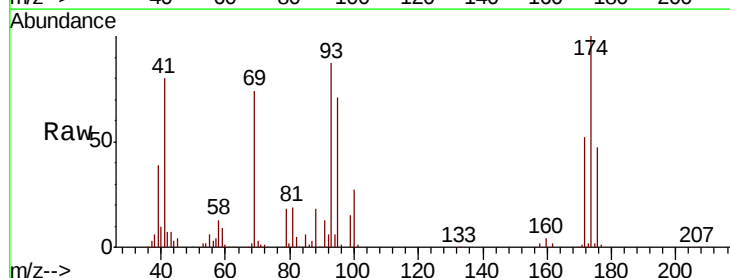
Tgt Ion: 93 Resp: 147270

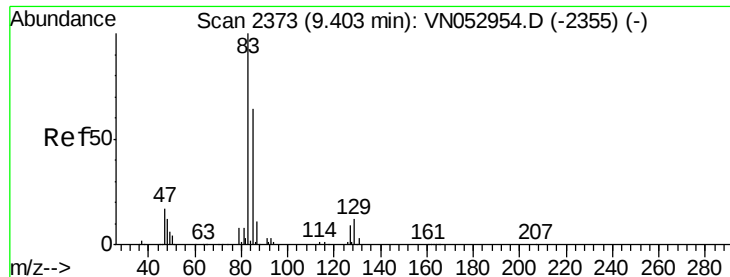
Ion Ratio Lower Upper

93 100

95 84.3 67.8 101.6

174 113.8 89.0 133.4





#47

Bromodichloromethane

Concen: 19.435 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

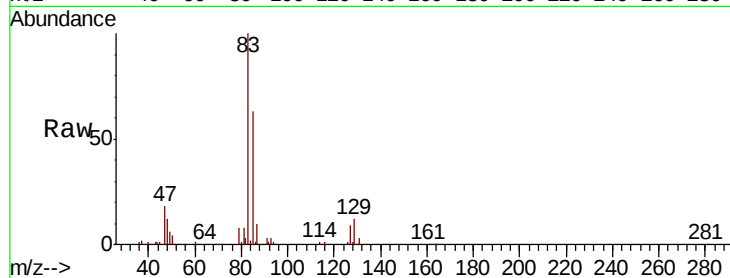
ClientSampleId :

VN1219WBSD01

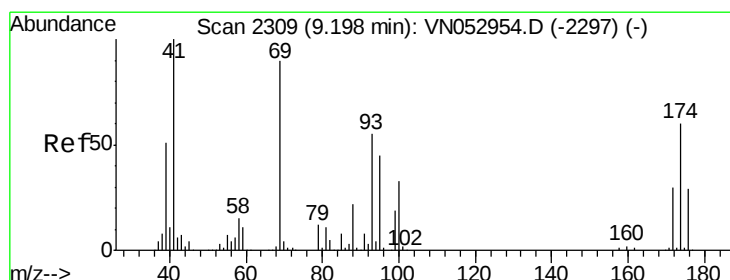
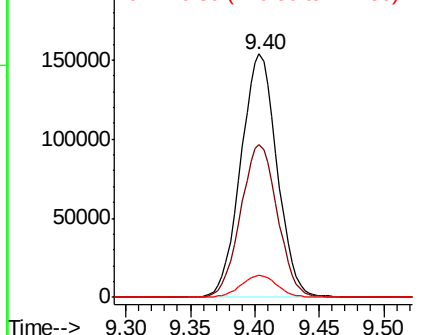
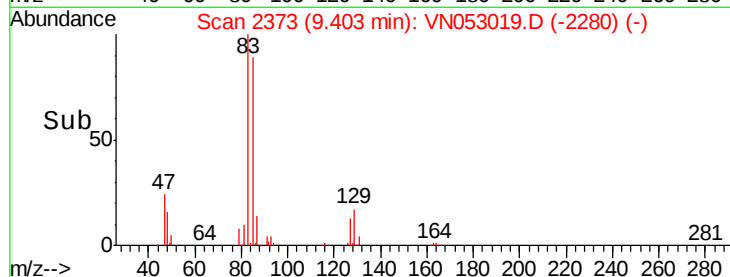
Tot Ion:	83	Resp:	301054
Ion	Ratio	Lower	Upper
83	100		
85	62.9	51.6	77.4
127	8.9	7.1	10.7

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Abundance Ion 82.90 (82.60 to 83.60): VN053019.D (-2280) (-)



#48

Methyl methacrylate

Concen: 20.539 ug/l

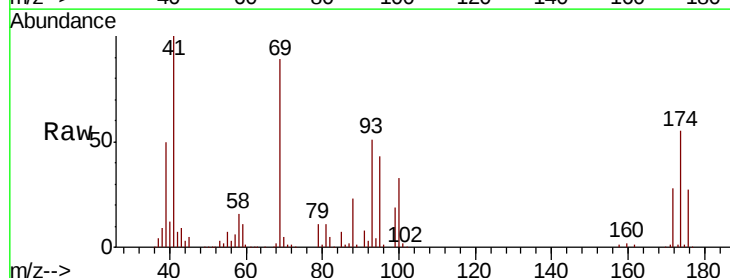
RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

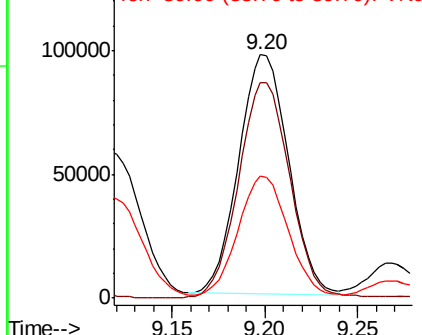
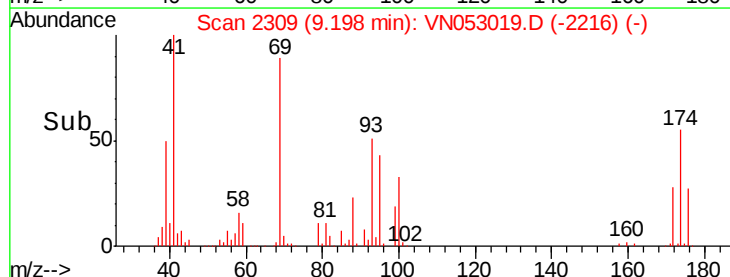
Lab File: VN053019.D

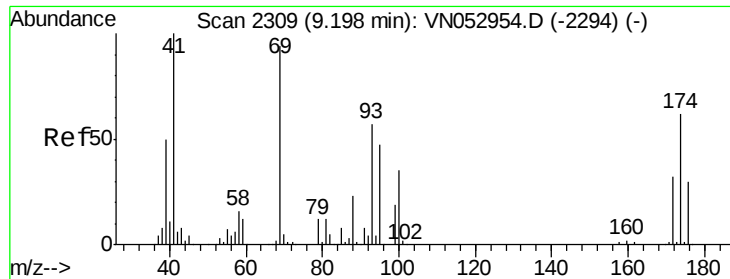
Acq: 19 Dec 2018 18:50

Tgt Ion:	41	Resp:	179644
Ion	Ratio	Lower	Upper
41	100		
69	93.1	72.2	108.2
39	52.2	41.9	62.9



Abundance Ion 41.00 (40.70 to 41.70): VN053019.D (-2216) (-)





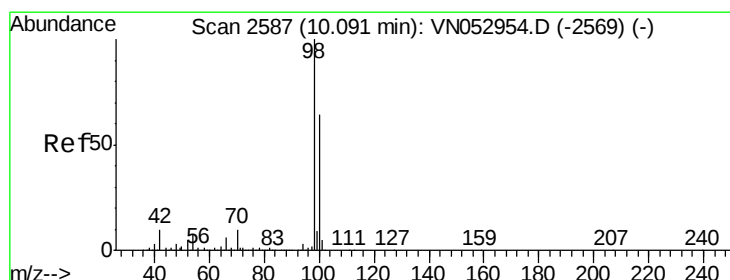
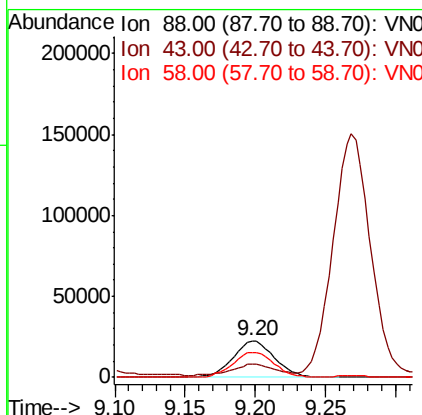
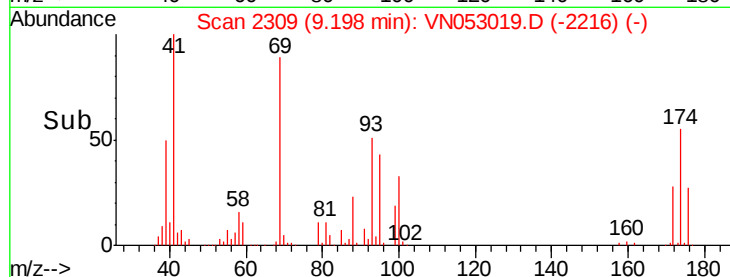
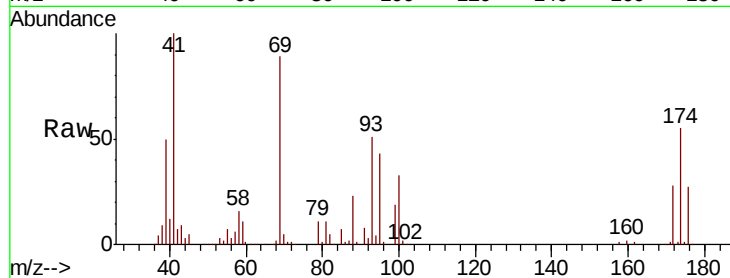
#49
1,4-Dioxane
Concen: 418.520 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	88	Resp	46304
Ion	Ratio	Lower	Upper
88	100		
43	29.7	26.6	40.0
58	68.9	58.4	87.6

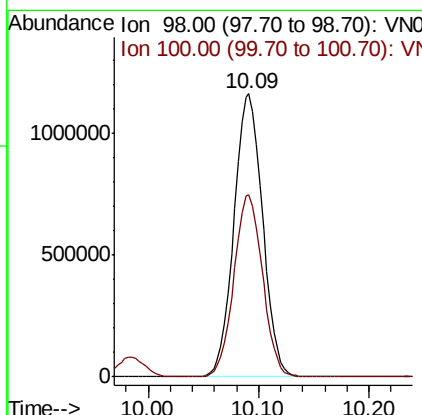
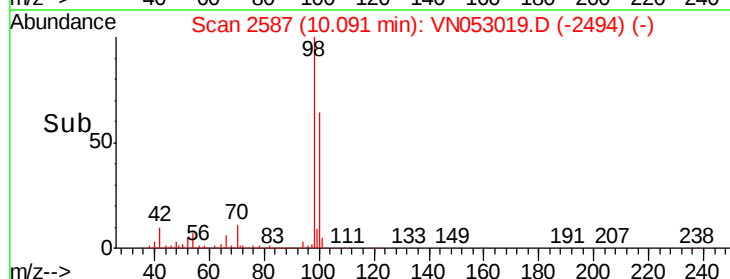
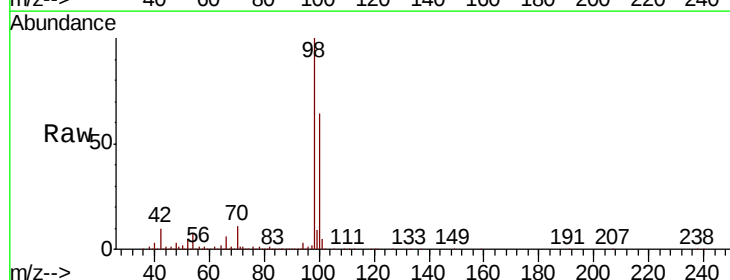
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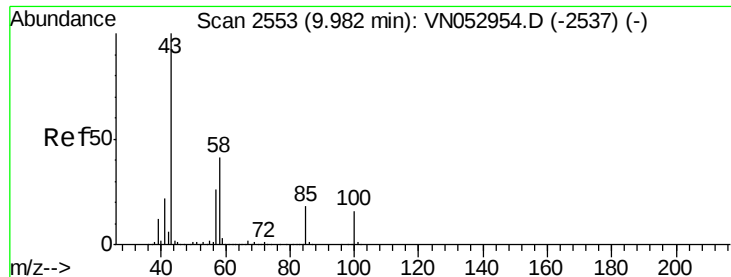
MMDadoda
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#50
Toluene-d8
Concen: 418.520 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	98	Resp	2090798
Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 108.825 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion: 43 Resp: 949912

Ion Ratio Lower Upper

43 100

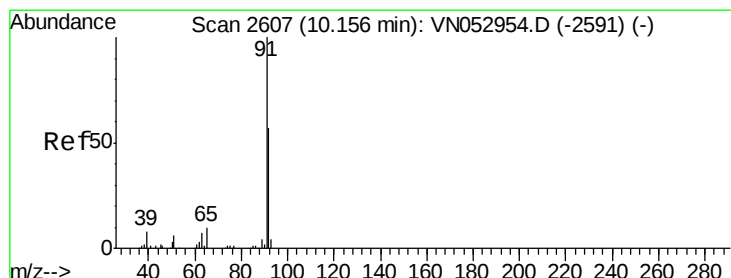
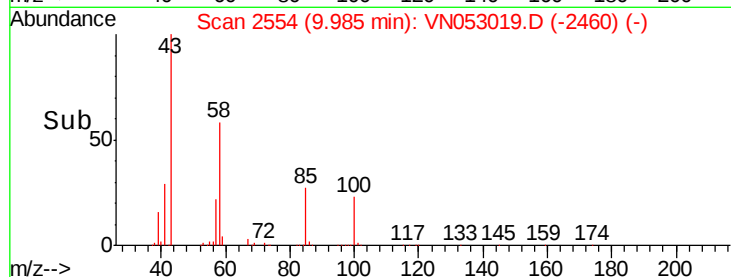
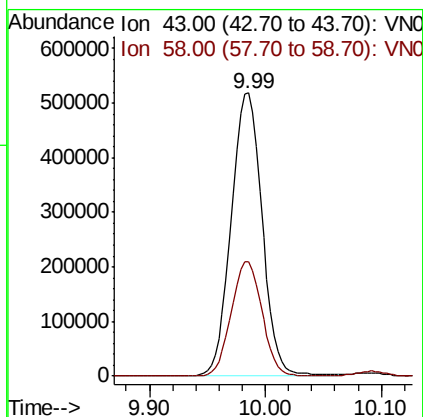
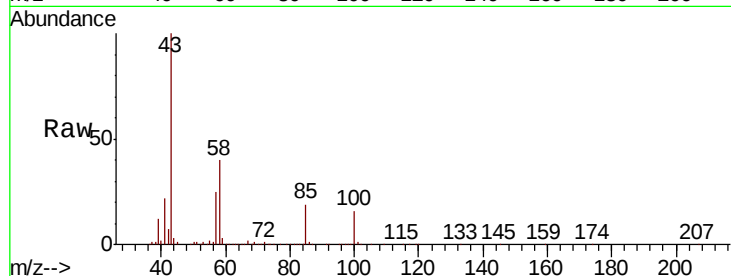
58 40.7 32.2 48.4

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#52

Toluene

Concen: 20.083 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053019.D

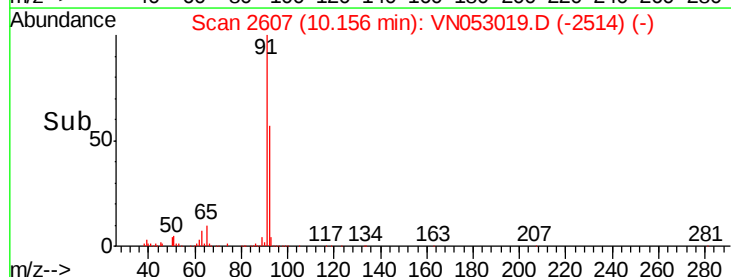
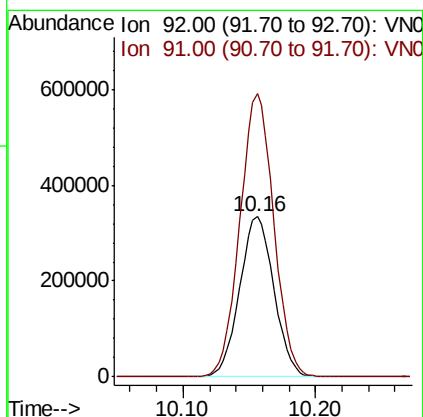
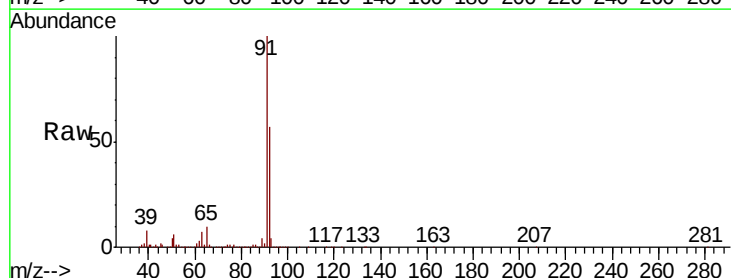
Acq: 19 Dec 2018 18:50

Tgt Ion: 92 Resp: 597815

Ion Ratio Lower Upper

92 100

91 174.7 139.8 209.6





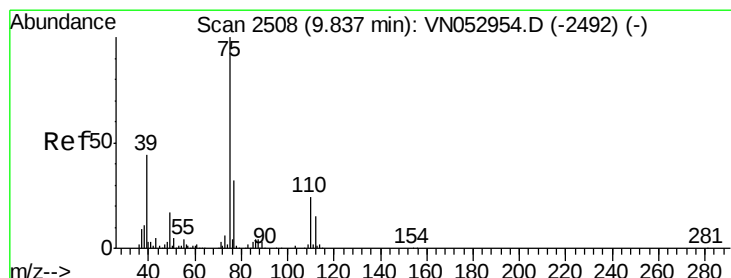
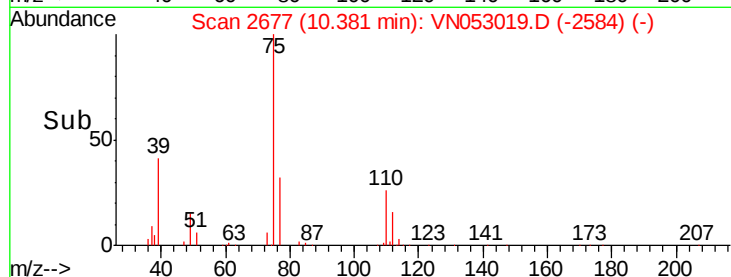
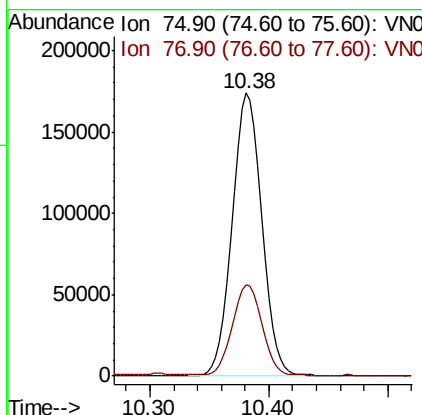
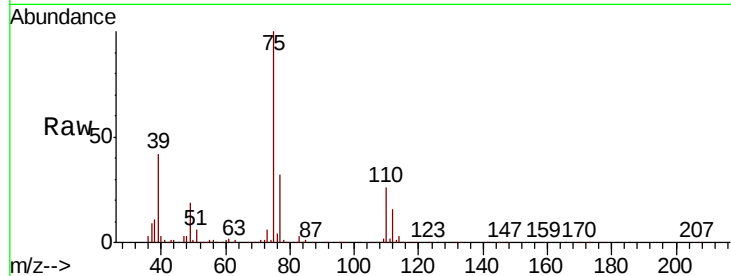
#53
t-1,3-Dichloropropene
Concen: 18.469 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.6	38.4

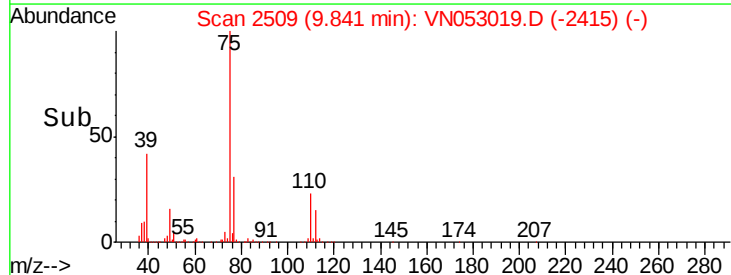
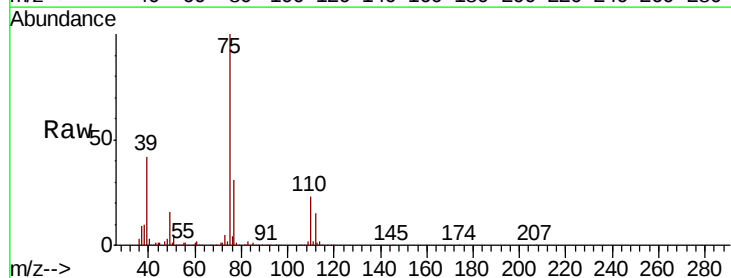
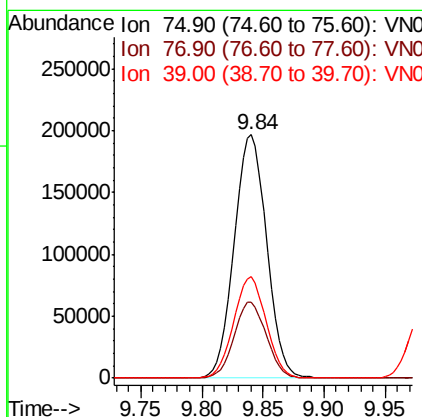
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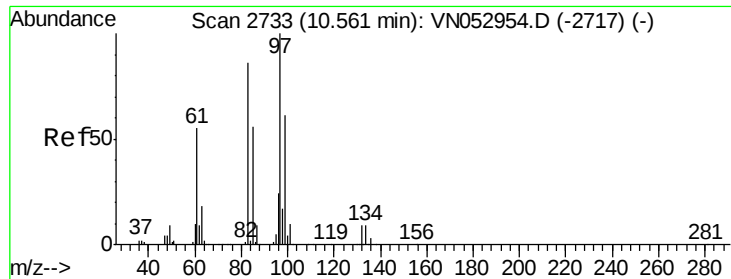
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 19.418 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.8	38.8
39	41.4	34.8	52.2





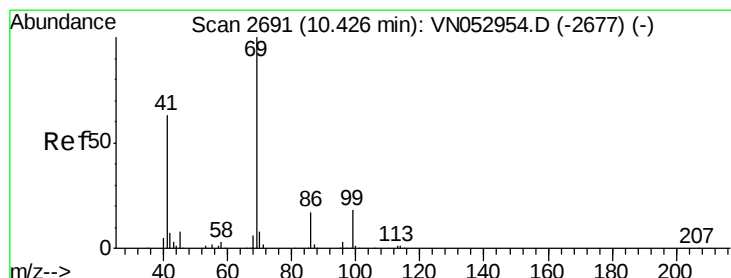
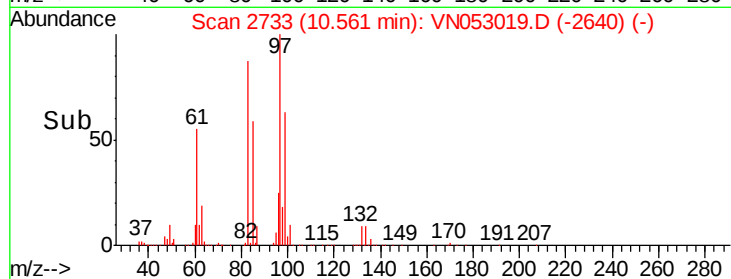
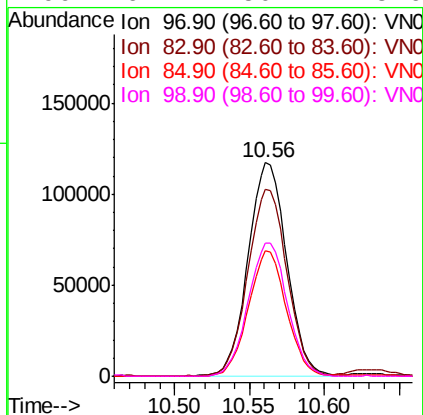
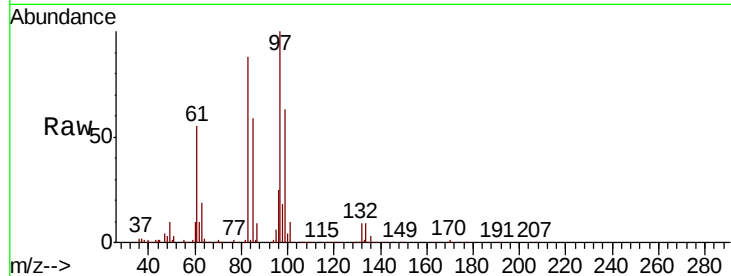
#55
 1,1,2-Trichloroethane
 Concen: 20.193 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		209706		
83	87.6	70.9	106.3		
85	59.1	45.4	68.2		
99	62.7	50.4	75.6		

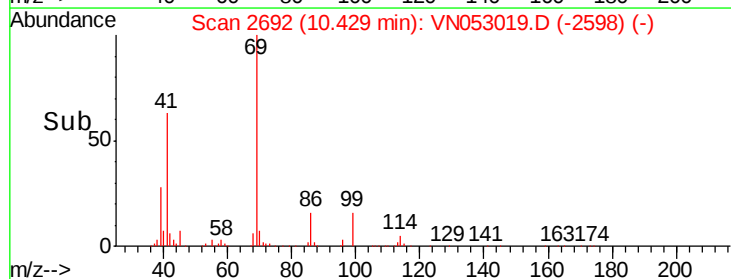
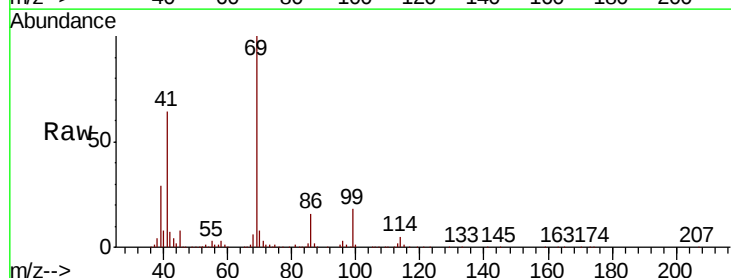
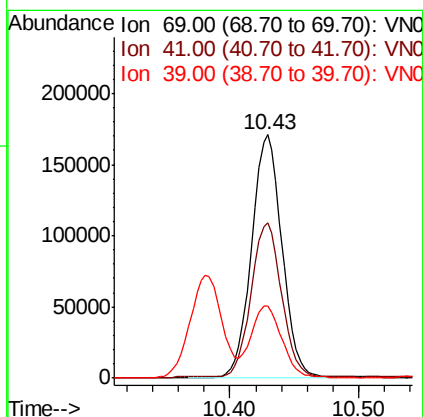
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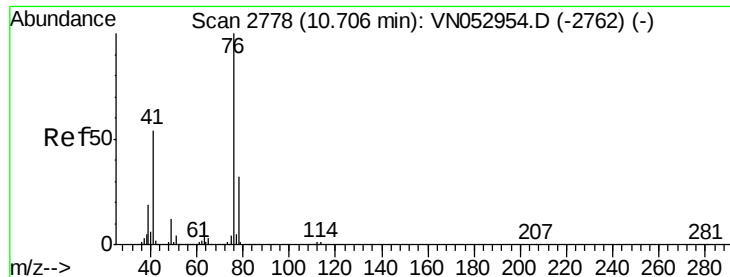
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 12/20/2018 9:35:07 AM



#56
 Ethyl methacrylate
 Concen: 20.458 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		281199		
41	63.5	51.7	77.5		
39	29.9	24.6	37.0		





#57

1,3-Dichloropropane

Concen: 20.382 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion: 76 Resp: 362974

Ion Ratio Lower Upper

76 100

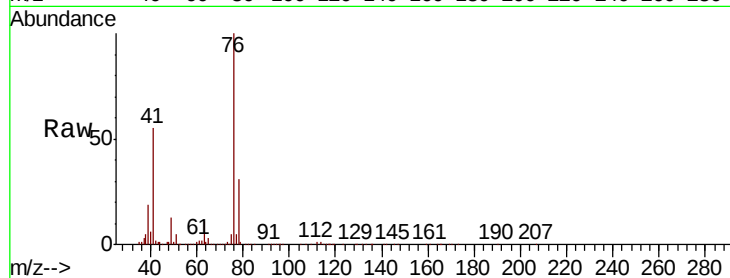
78 32.0 25.8 38.8

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN052954.D (-2762) (-)

Ion 77.90 (77.60 to 78.60): VN052954.D (-2762) (-)

10.71

200000

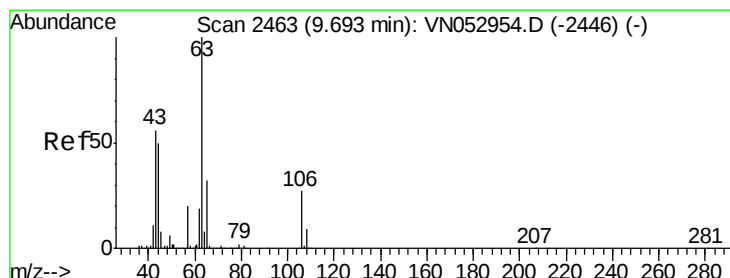
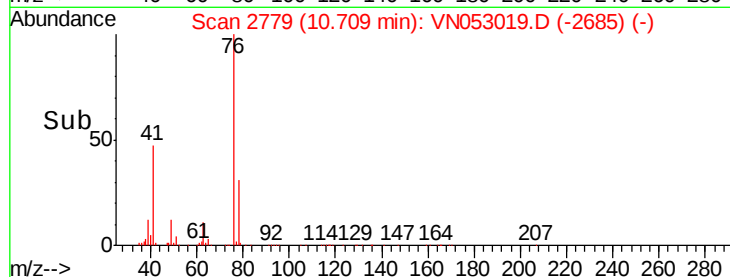
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 103.414 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053019.D

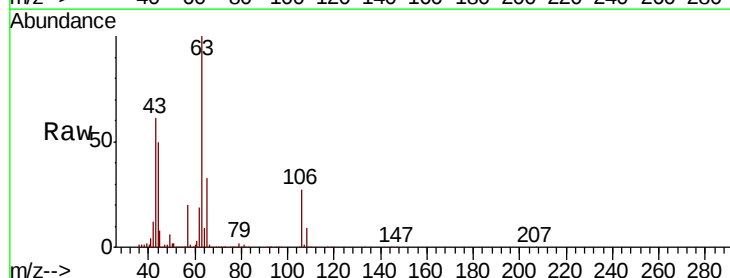
Acq: 19 Dec 2018 18:50

Tgt Ion: 63 Resp: 780383

Ion Ratio Lower Upper

63 100

106 27.4 21.0 31.6



Abundance Ion 62.90 (62.60 to 63.60): VN052954.D (-2446) (-)

Ion 105.90 (105.60 to 106.60): VN052954.D (-2446) (-)

9.70

500000

400000

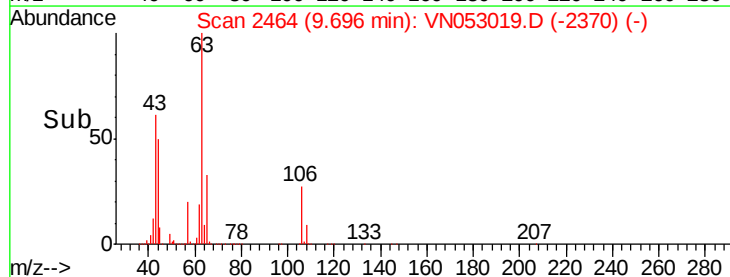
300000

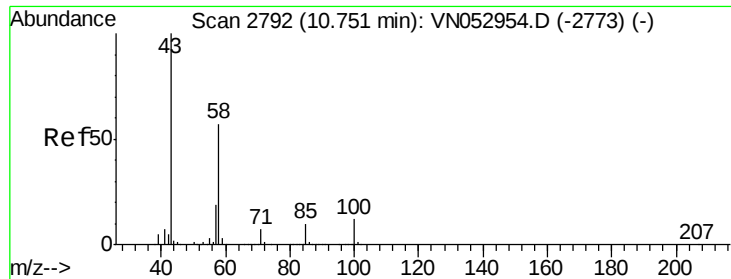
200000

100000

0

Time-->





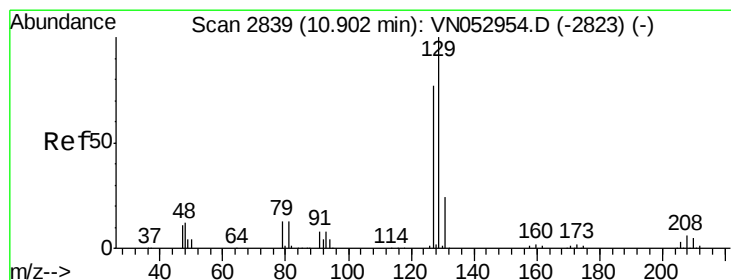
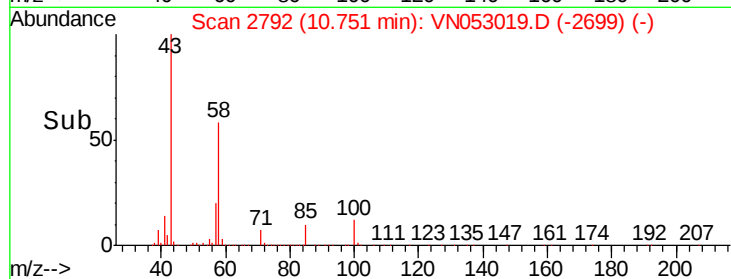
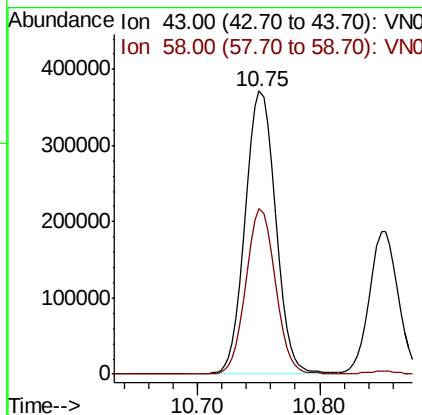
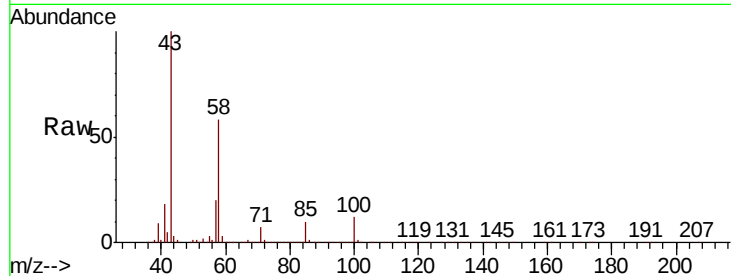
#59
2-Hexanone
Concen: 107.498 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion: 43 Resp: 634857
Ion Ratio Lower Upper
43 100
58 57.1 28.1 84.3

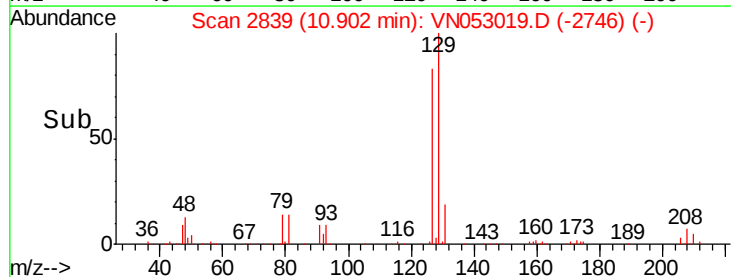
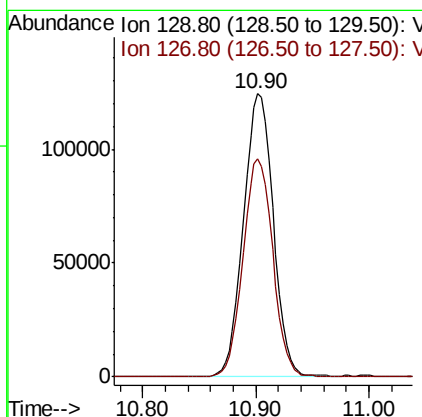
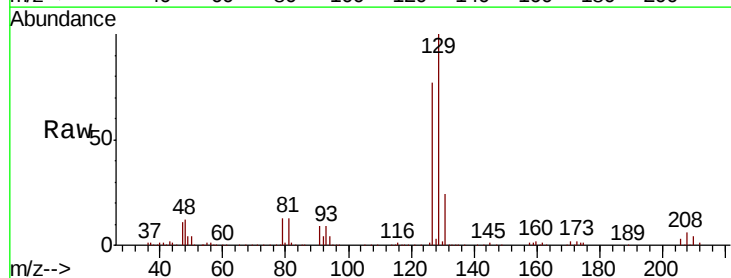
Manual Integrations
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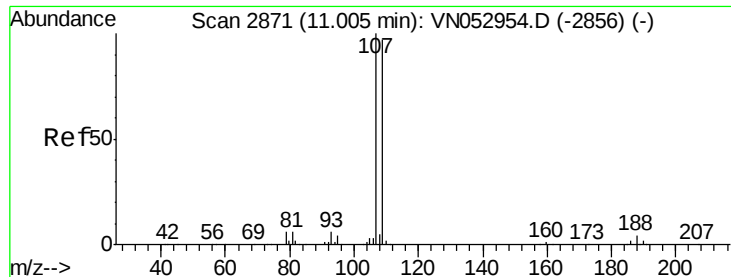
MMDadoda
12/20/2018 9:35:07 AM



#60
Dibromochloromethane
Concen: 19.141 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion: 129 Resp: 227531
Ion Ratio Lower Upper
129 100
127 77.4 38.6 116.0





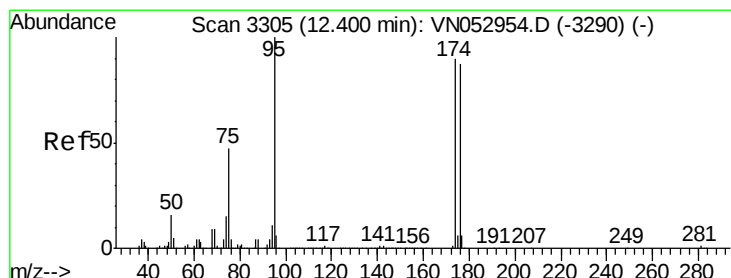
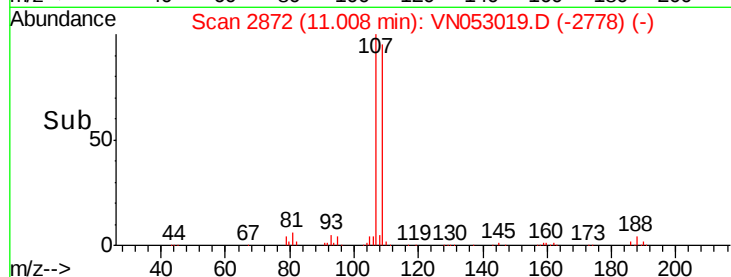
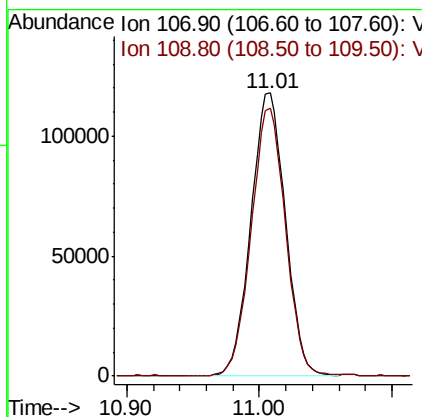
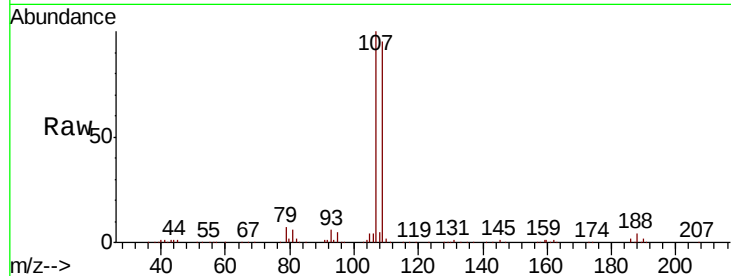
#61
1,2-Dibromoethane
Concen: 20.223 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion: 107 Resp: 213288
Ion Ratio Lower Upper
107 100
109 93.5 75.4 113.0

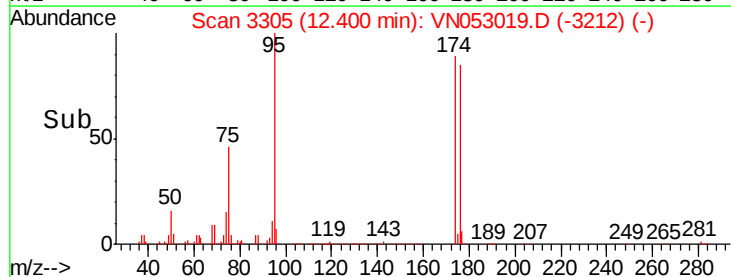
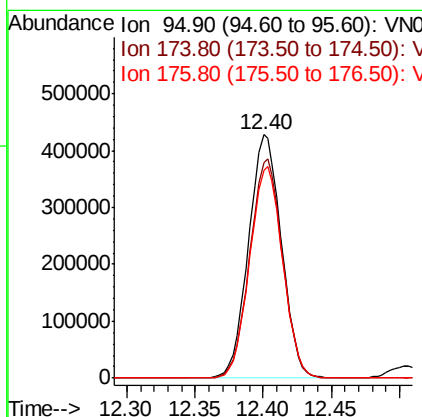
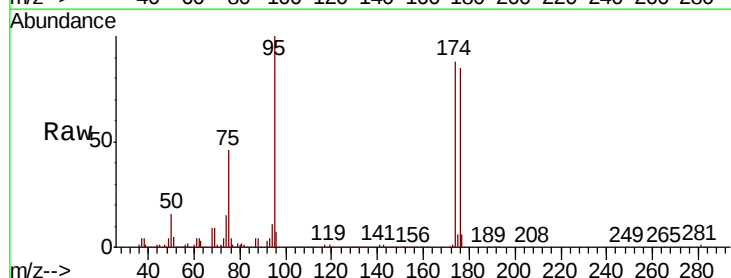
Manual Integrations
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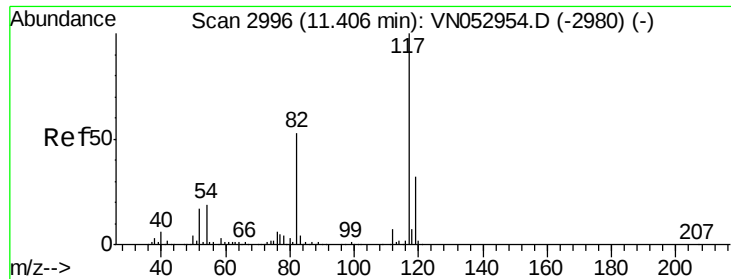
MMDadoda
12/20/2018 9:35:07 AM



#62
4-Bromofluorobenzene
Concen: 20.223 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion: 95 Resp: 713710
Ion Ratio Lower Upper
95 100
174 89.8 0.0 178.8
176 87.3 0.0 173.8





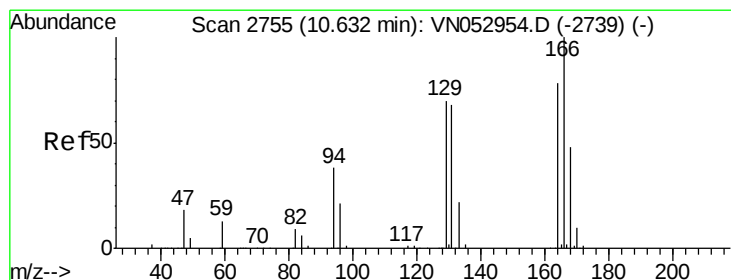
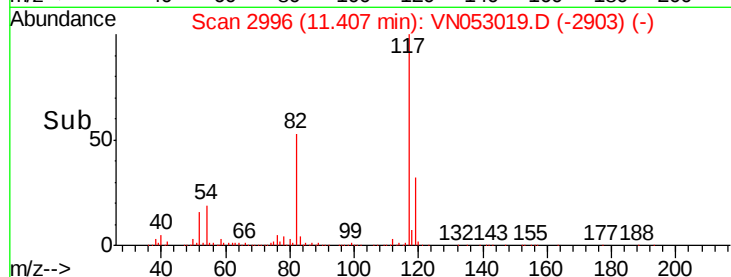
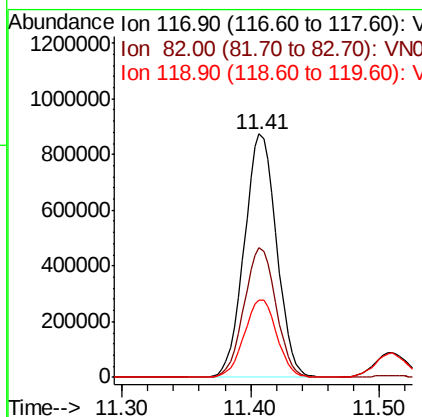
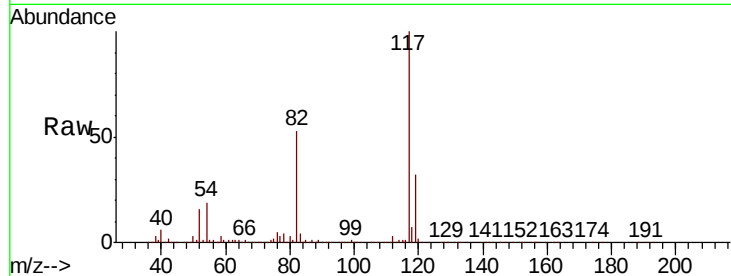
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	42.8	64.2
119	32.0	25.5	38.3

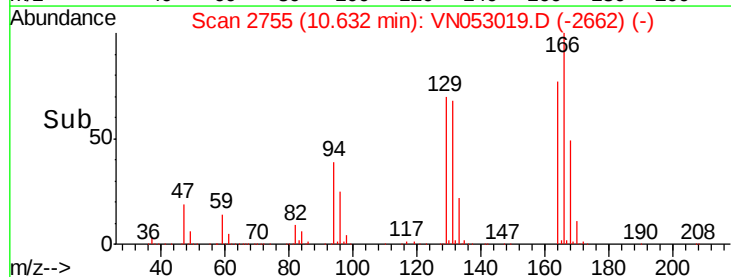
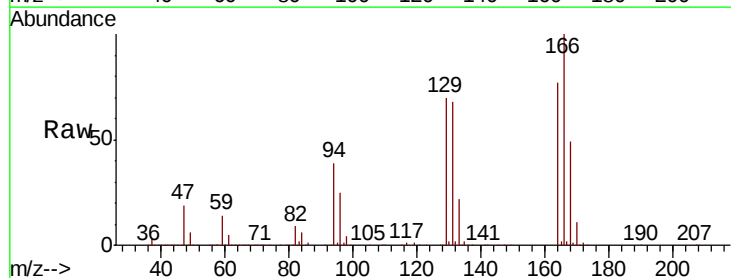
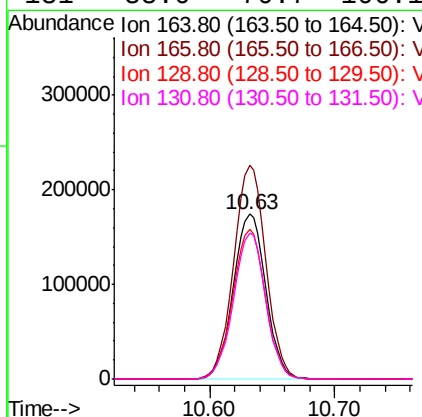
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#64
Tetrachloroethene
Concen: 19.111 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.4	102.9	154.3
129	90.8	73.7	110.5
131	88.0	70.7	106.1





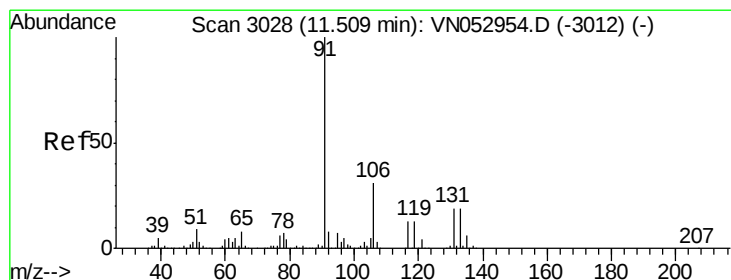
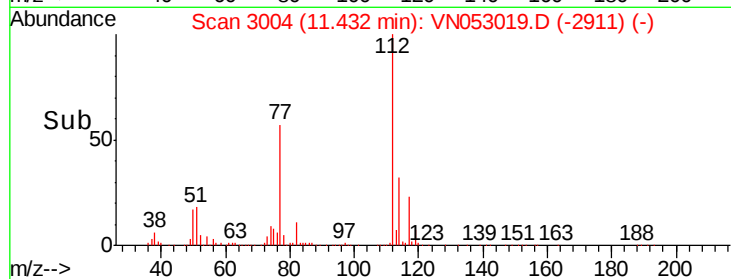
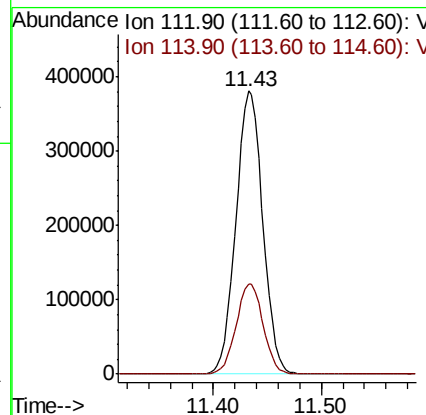
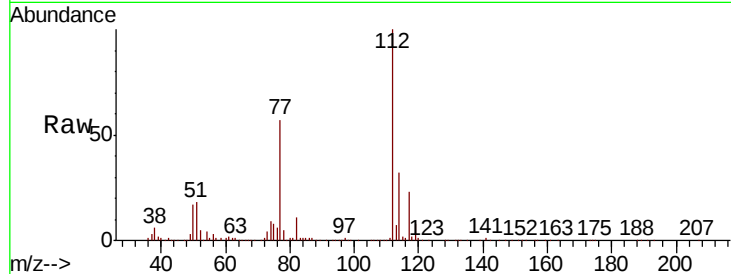
#65
Chlorobenzene
Concen: 19.612 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion:112 Resp: 659596
Ion Ratio Lower Upper
112 100
114 32.0 25.5 38.3

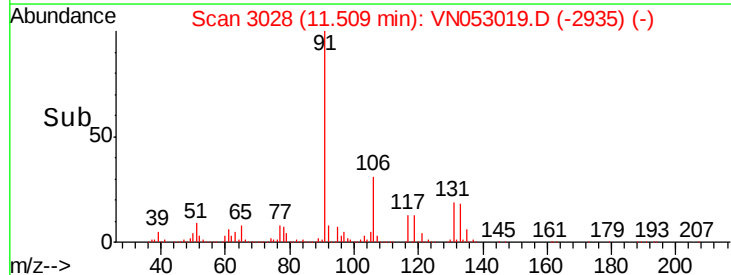
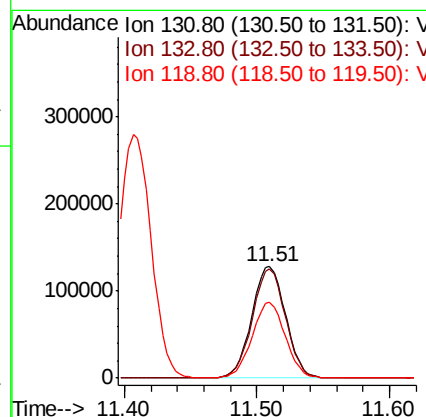
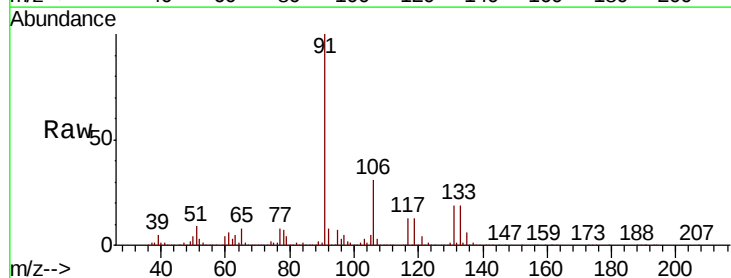
Manual Integrations
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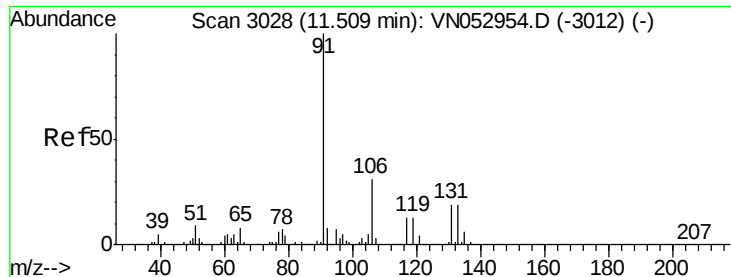
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.370 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion:131 Resp: 226548
Ion Ratio Lower Upper
131 100
133 95.6 47.6 142.9
119 65.8 33.3 99.8





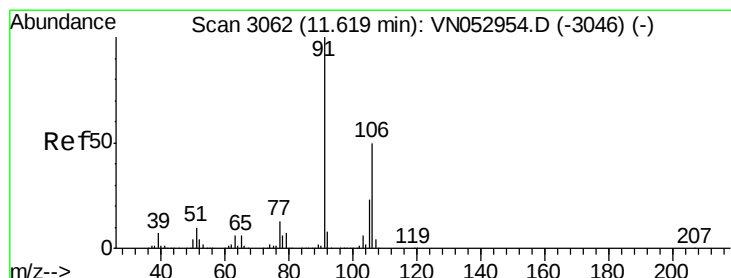
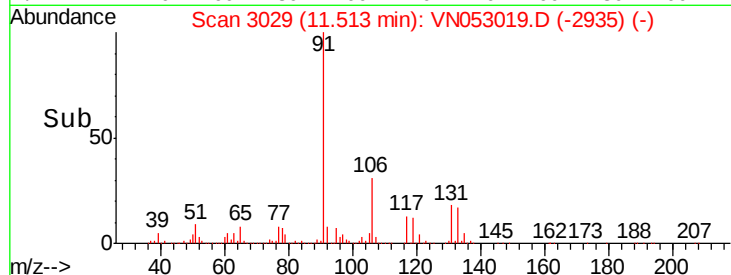
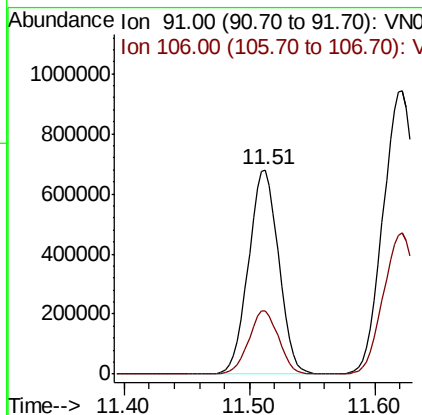
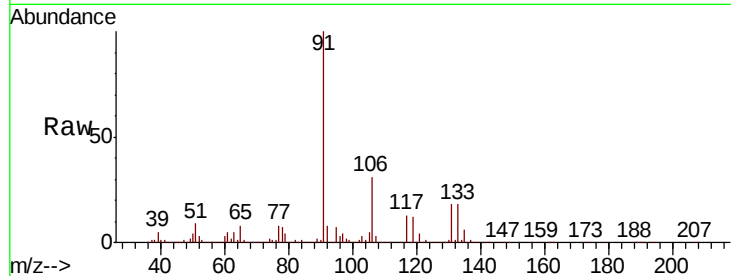
#67
Ethyl Benzene
Concen: 19.640 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion: 91 Resp: 1135980
Ion Ratio Lower Upper
91 100
106 30.9 24.9 37.3

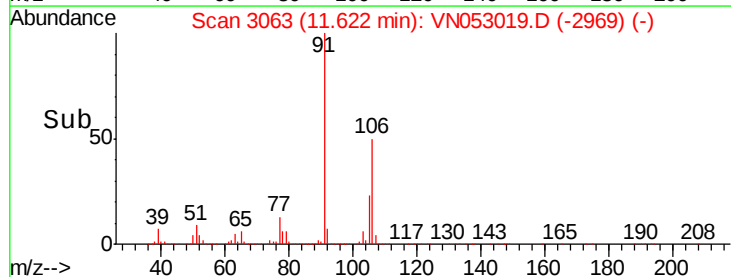
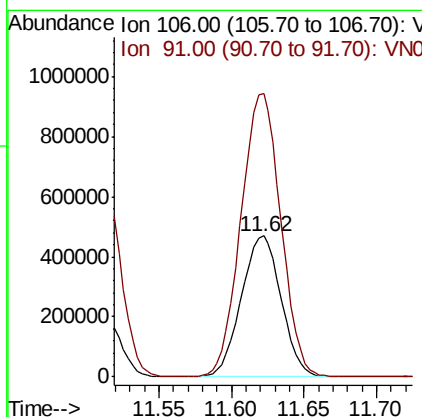
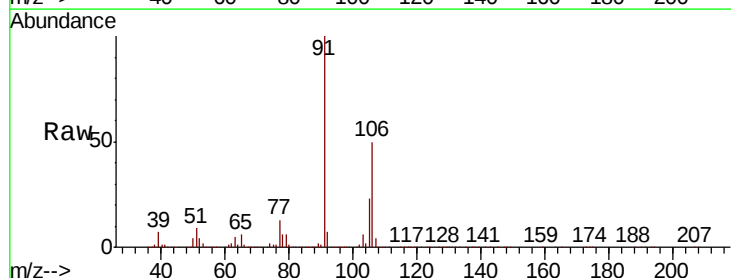
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#68
m/p-Xylenes
Concen: 40.737 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion: 106 Resp: 895737
Ion Ratio Lower Upper
106 100
91 200.9 162.2 243.4





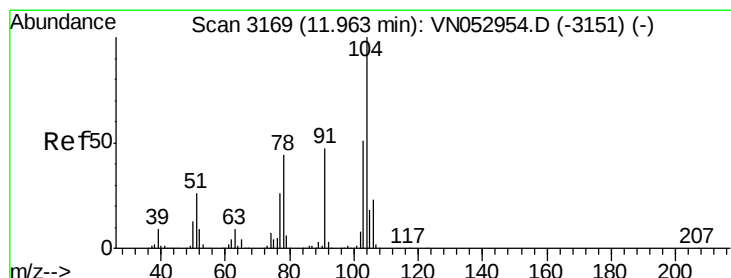
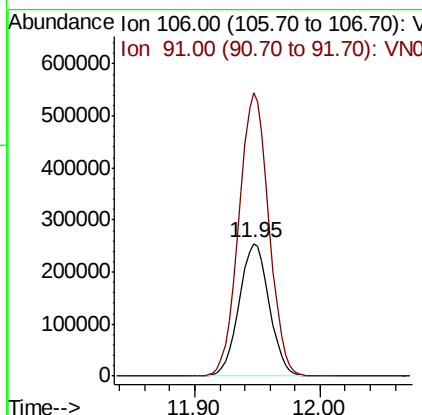
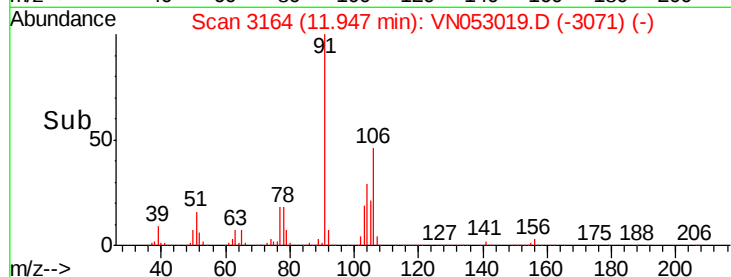
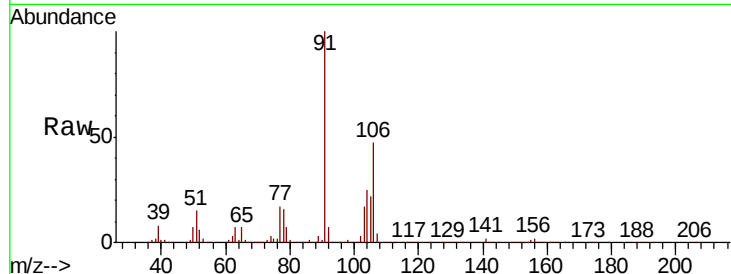
#69
o-Xylene
Concen: 20.046 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion:106 Resp: 422951
Ion Ratio Lower Upper
106 100
91 212.8 106.6 319.8

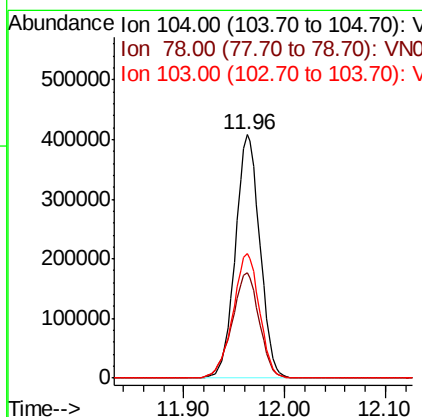
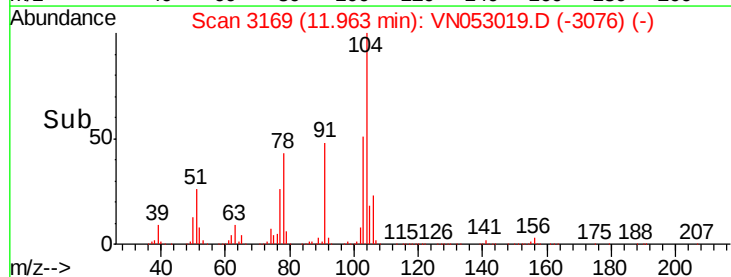
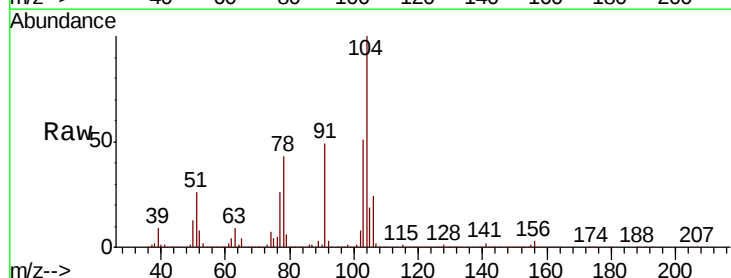
Manual Integrations
APPROVED

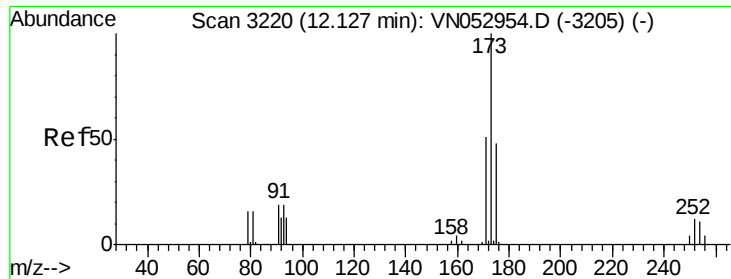
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#70
Styrene
Concen: 19.971 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion:104 Resp: 687106
Ion Ratio Lower Upper
104 100
78 47.8 38.9 58.3
103 55.3 44.3 66.5





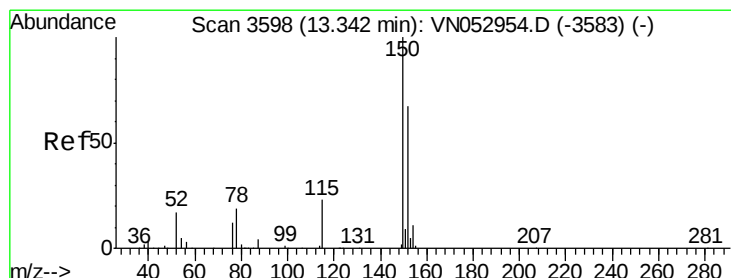
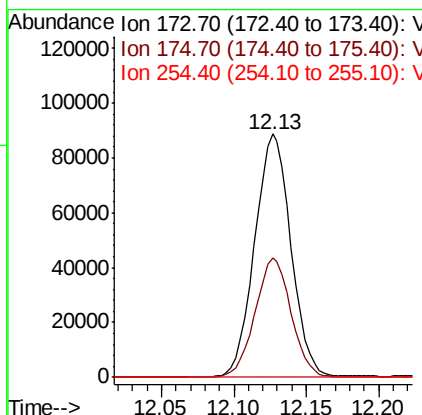
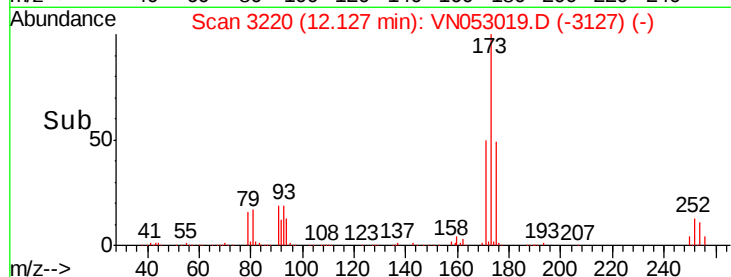
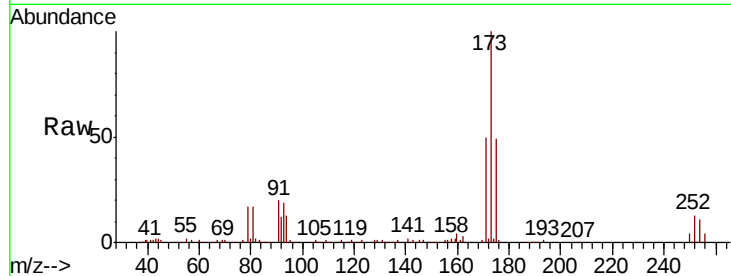
#71
Bromoform
Concen: 18.197 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.3	72.9
254	0.0	0.1	0.1

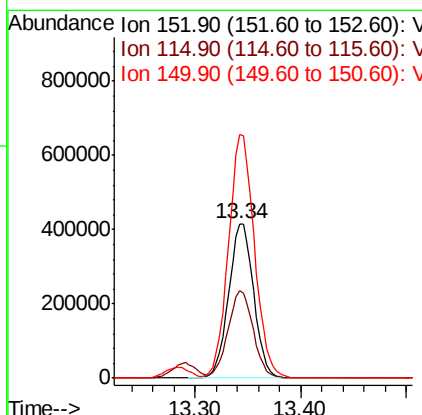
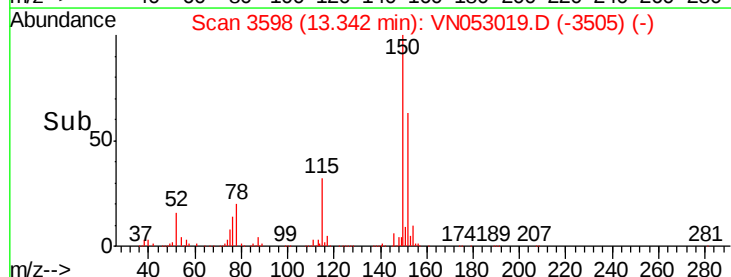
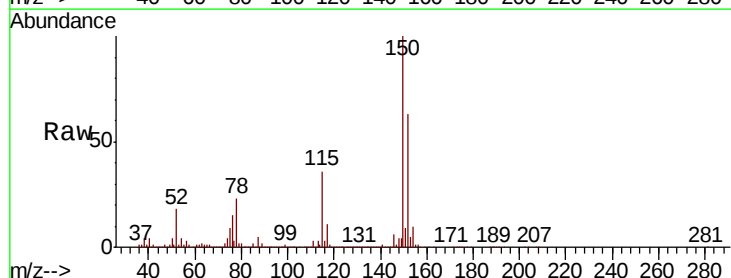
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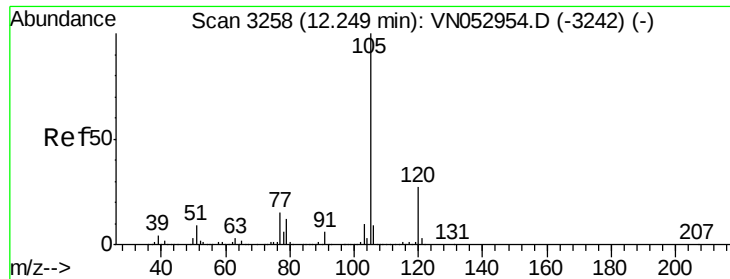
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.3	85.0
150	163.7	0.0	347.8





#73

Isopropylbenzene

Concen: 20.929 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion:105 Resp: 1111858

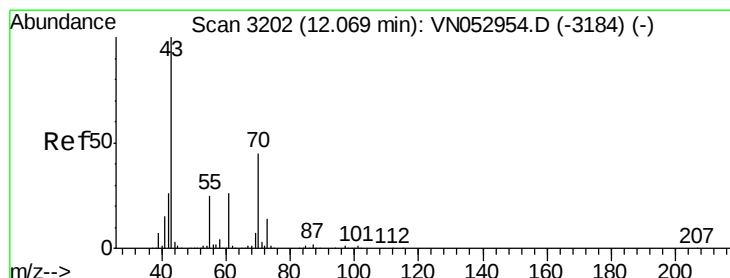
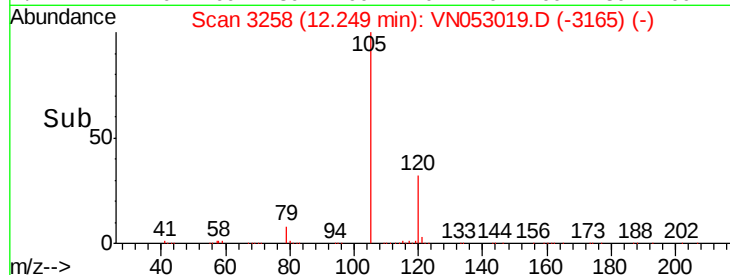
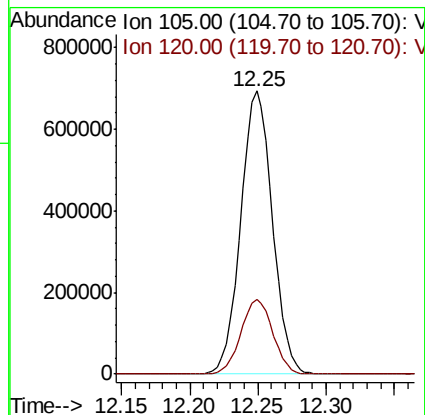
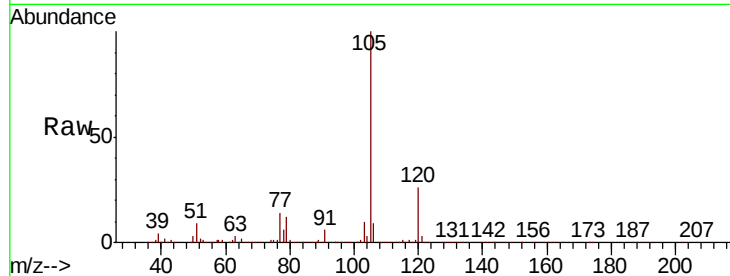
Ion Ratio Lower Upper

105 100

120 26.7 13.3 39.9

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#74

N-ethyl acetate

Concen: 21.918 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Tgt Ion: 43 Resp: 323292

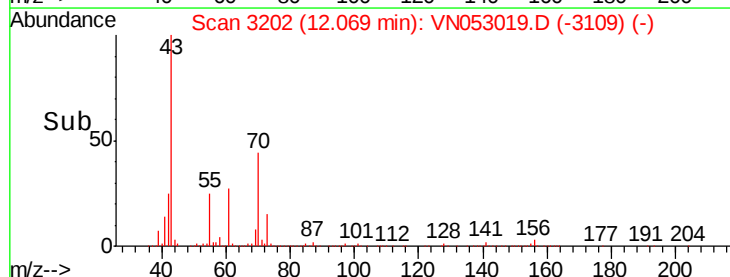
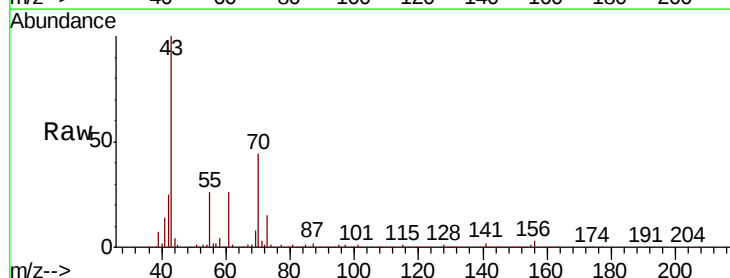
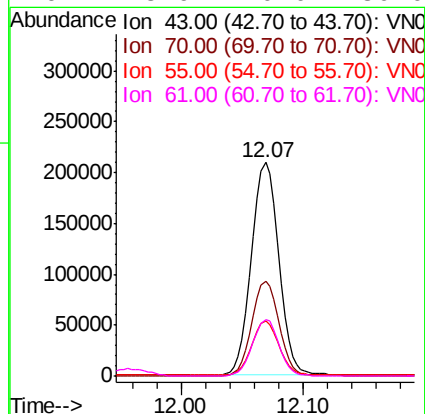
Ion Ratio Lower Upper

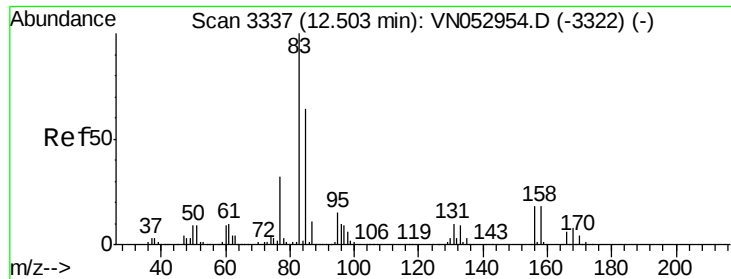
43 100

70 43.9 34.2 51.4

55 25.5 20.3 30.5

61 25.9 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 22.224 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion: 83 Resp: 231633

Ion Ratio Lower Upper

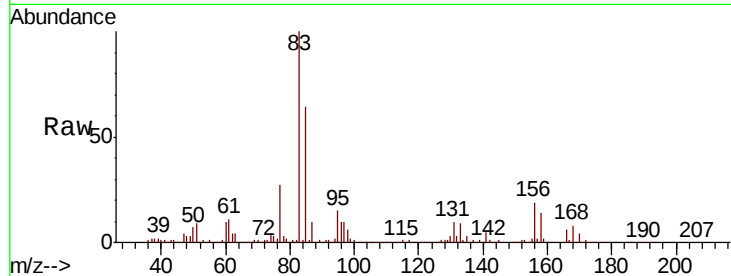
83 100

131 10.7 5.2 15.6

85 64.6 32.4 97.0

Manual Integrations
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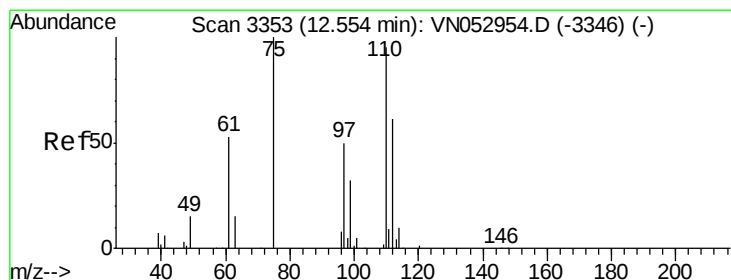
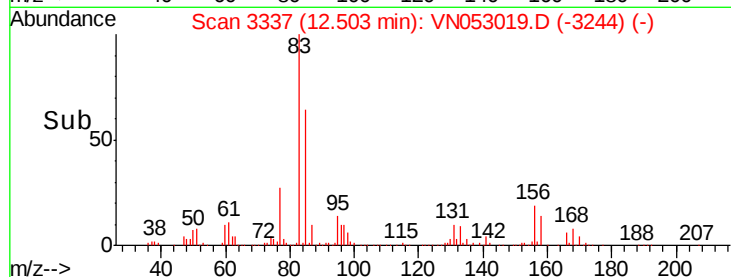
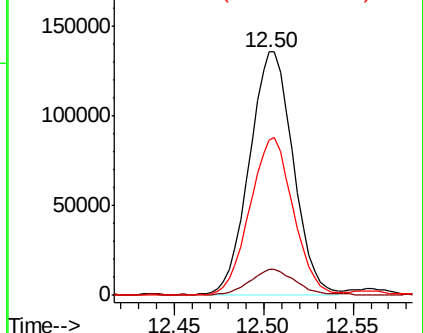
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Abundance Ion 82.90 (82.60 to 83.60): VN053019.D (-3244) (-)

Ion 130.80 (130.50 to 131.50): VN053019.D (-3244) (-)

Ion 84.90 (84.60 to 85.60): VN053019.D (-3244) (-)



#76

1,2,3-Trichloropropane

Concen: 18.859 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN053019.D

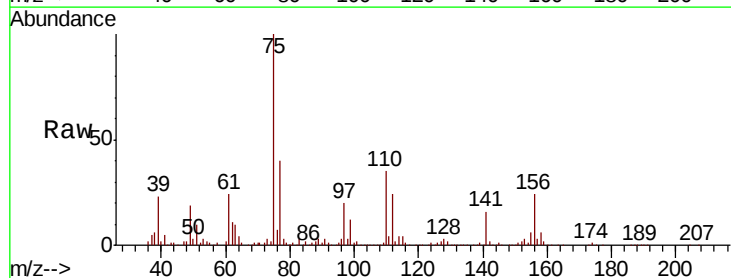
Acq: 19 Dec 2018 18:50

Tgt Ion: 75 Resp: 215561

Ion Ratio Lower Upper

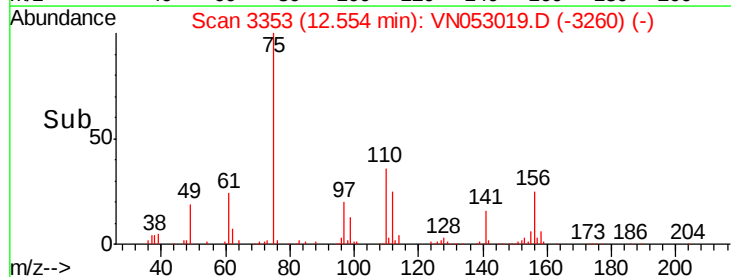
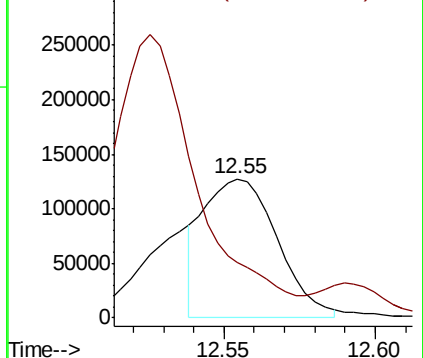
75 100

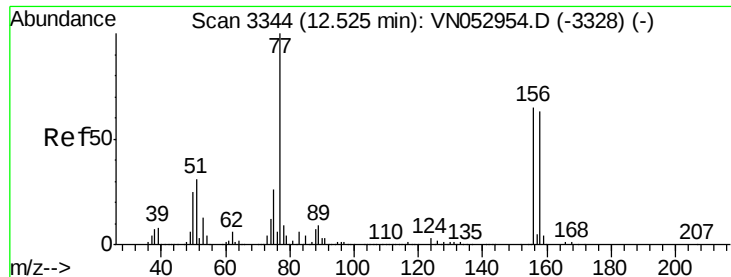
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN053019.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN053019.D (-3260) (-)





#77

Bromobenzene

Concen: 26.687 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

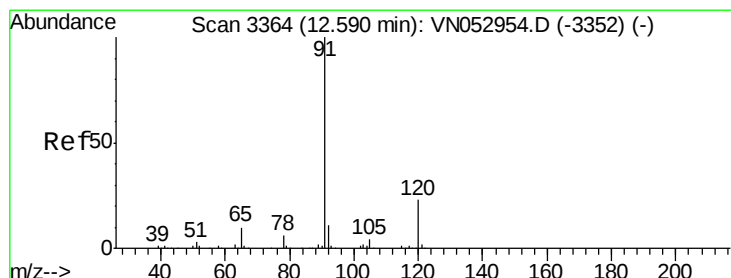
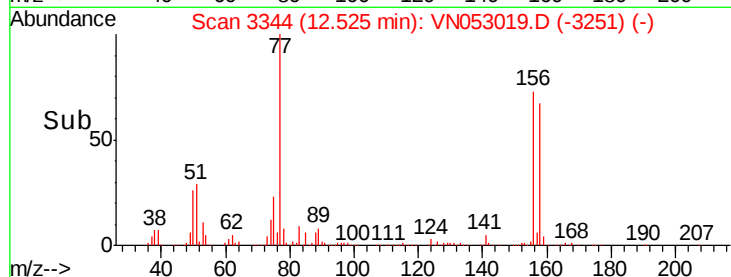
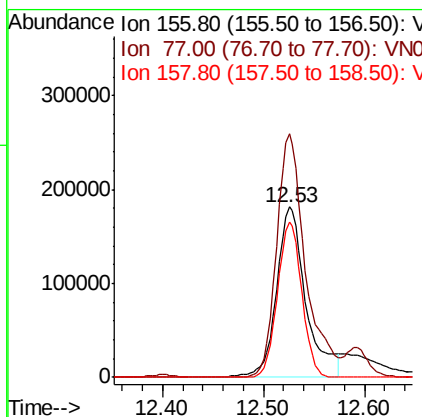
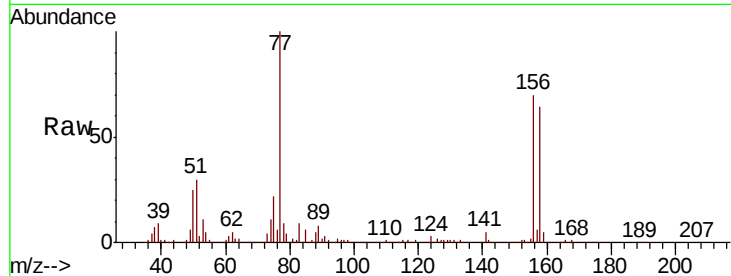
ClientSampleId :

VN1219WBSD01

Tot Ion:	156	Resp:	368536
Ion Ratio	Lower	Upper	
156	100		
77	140.1	91.3	273.8
158	75.5	49.0	147.2

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#78

n-propylbenzene

Concen: 20.513 ug/l

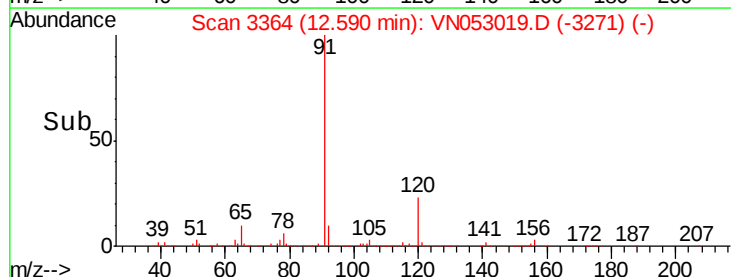
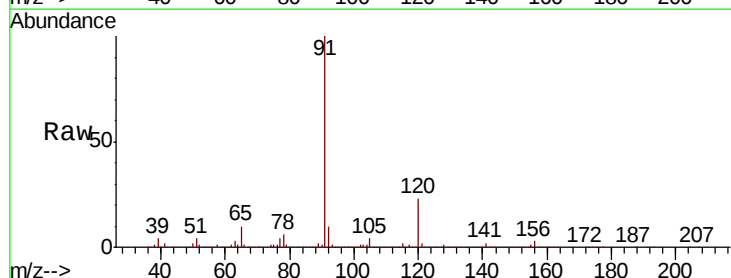
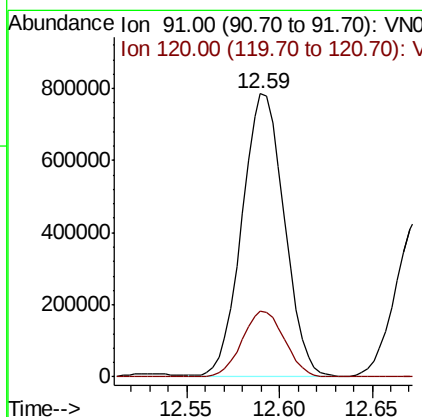
RT: 12.59 min Scan# 3364

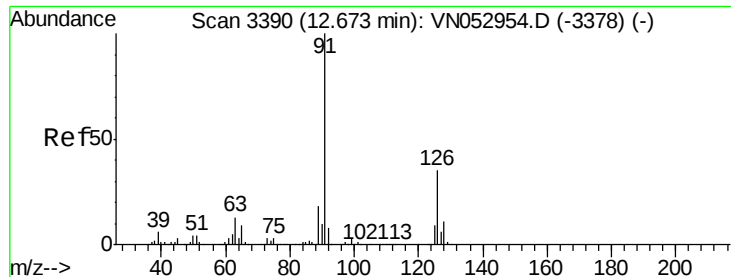
Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Tgt Ion:	91	Resp:	1241176
Ion Ratio	Lower	Upper	
91	100		
120	23.3	11.5	34.5





#79

2-Chlorotoluene

Concen: 19.542 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN053019.D

Acq: 19 Dec 2018 18:50

Instrument :

MSVOA_N

ClientSampleId :

VN1219WBSD01

Tot Ion: 91 Resp: 732910

Ion Ratio Lower Upper

91 100

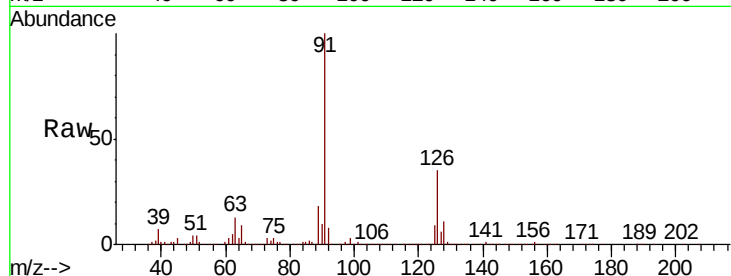
126 35.3 17.4 52.3

Manual Integrations

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

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

800000

600000

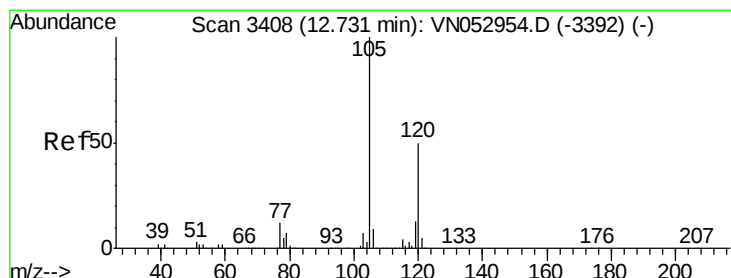
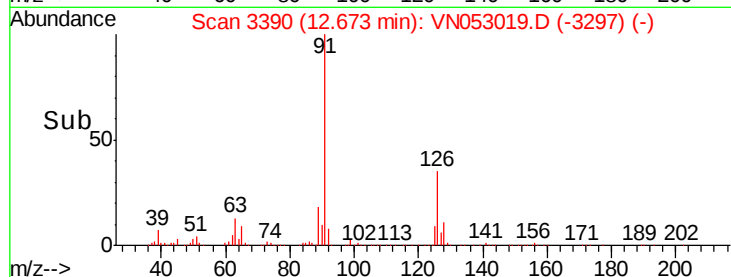
400000

200000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.135 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053019.D

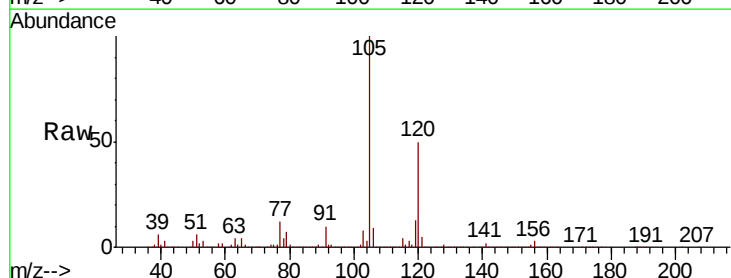
Acq: 19 Dec 2018 18:50

Tgt Ion: 105 Resp: 871896

Ion Ratio Lower Upper

105 100

120 49.5 24.4 73.2



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

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

600000

500000

400000

300000

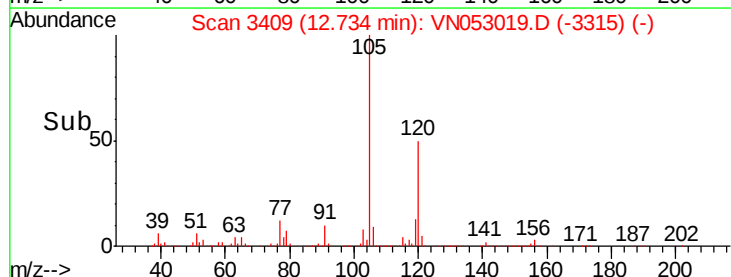
200000

100000

0

12.70 12.80

Time-->





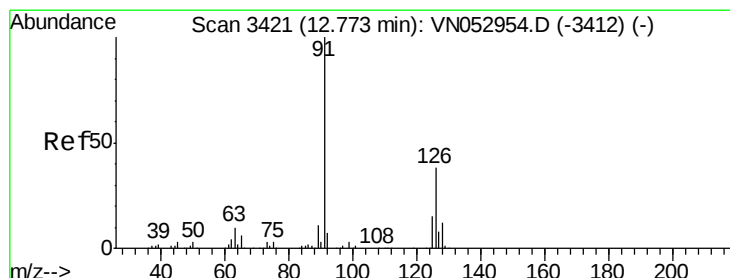
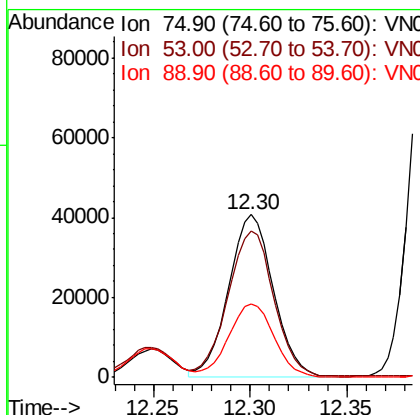
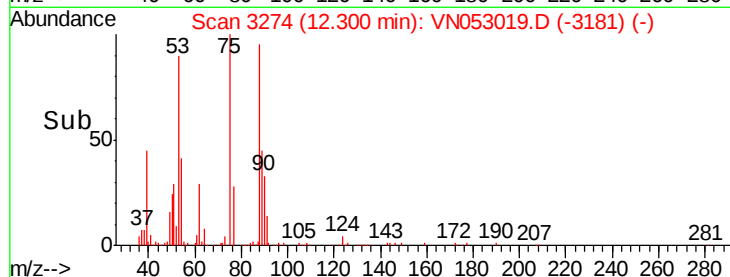
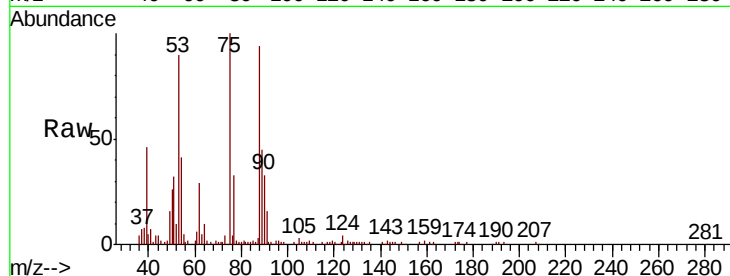
#81
trans-1,4-Dichloro-2-butene
Concen: 18.454 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	91.5	74.7	112.1
89	45.8	36.1	54.1

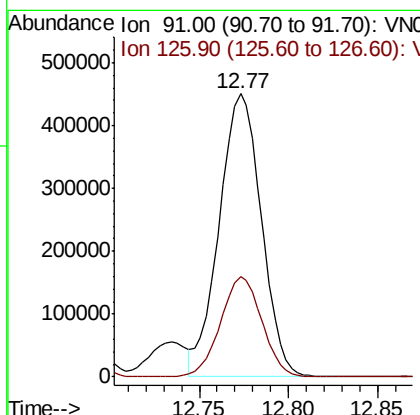
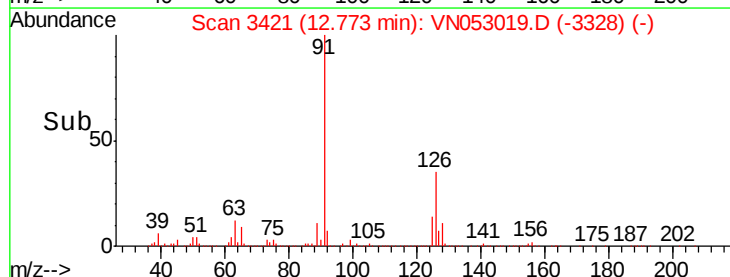
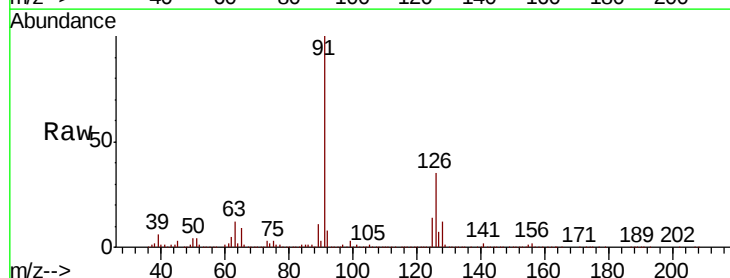
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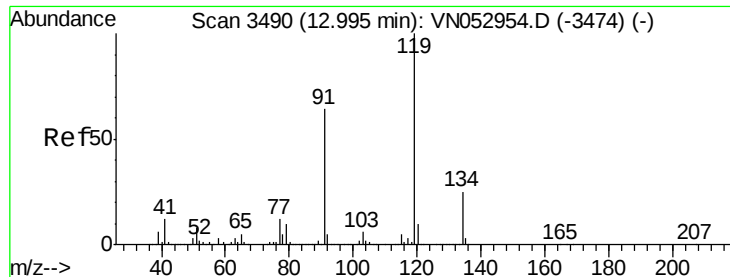
MMDadoda
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#82
4-Chlorotoluene
Concen: 20.004 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.3	51.7





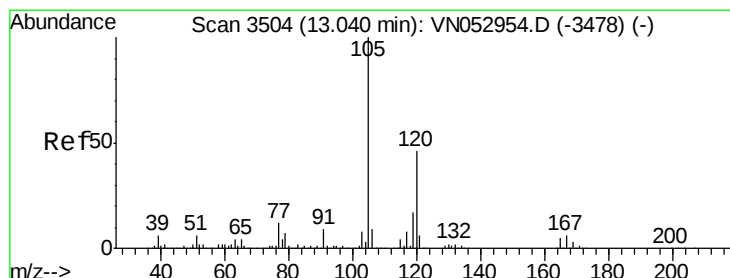
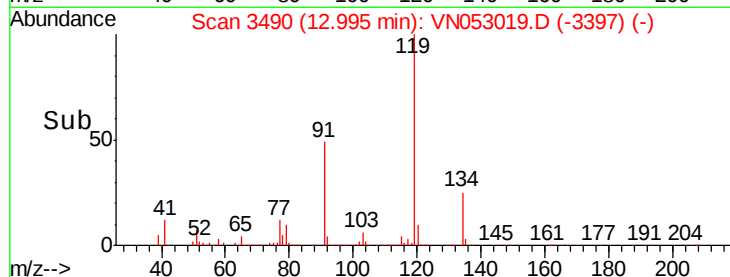
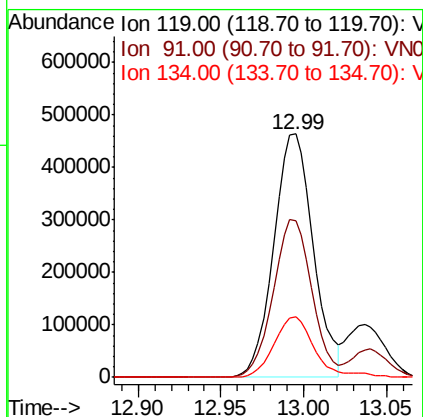
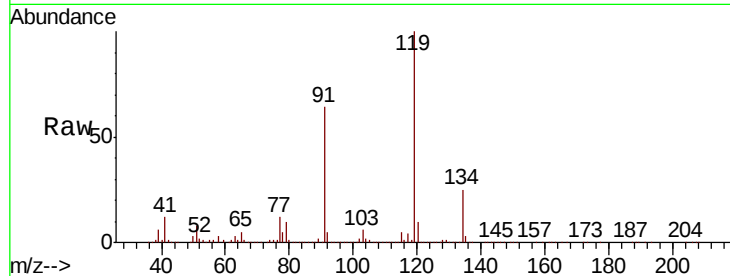
#83
tert-Butylbenzene
Concen: 20.107 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.1	31.9	95.5
134	25.6	12.8	38.4

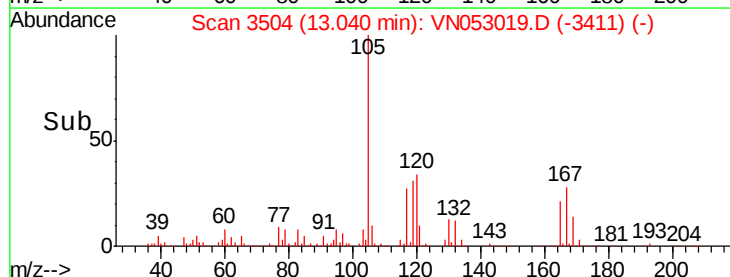
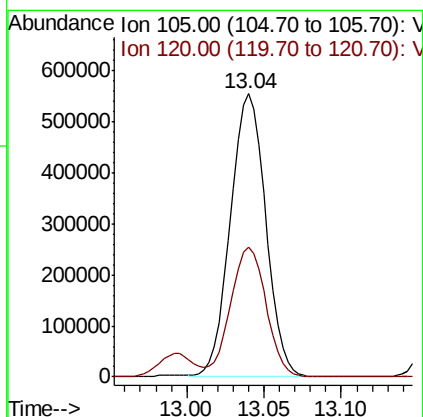
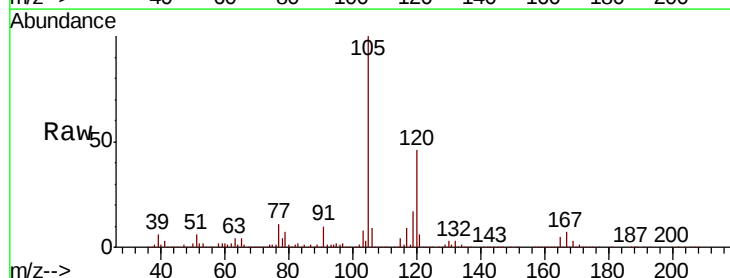
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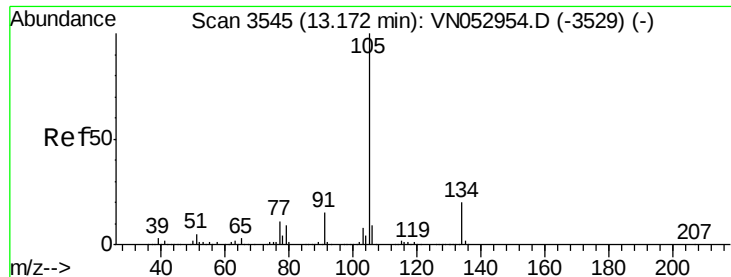
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#84
1,2,4-Trimethylbenzene
Concen: 20.197 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.1	22.9	68.8





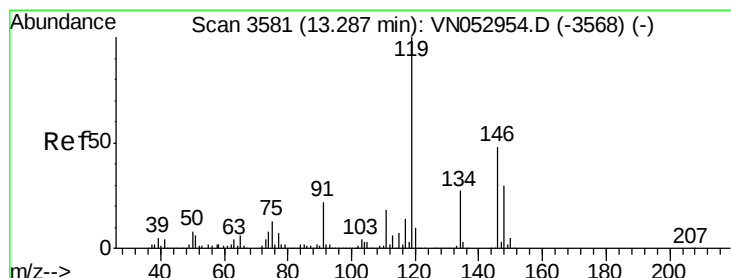
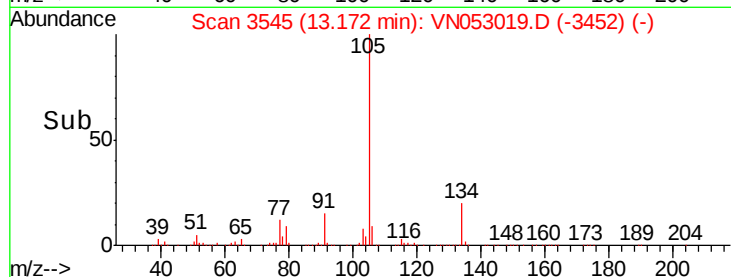
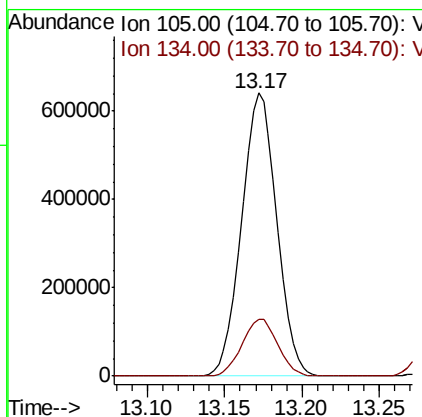
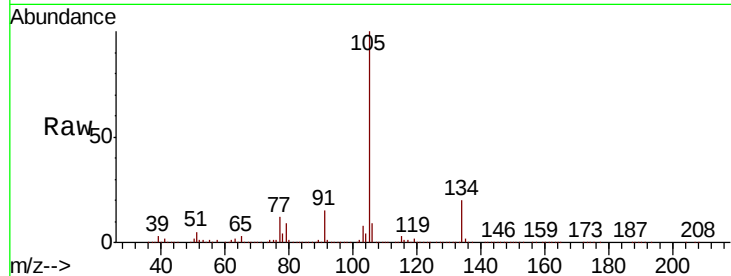
#85
 sec-Butylbenzene
 Concen: 19.520 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBSD01

Tot Ion:105 Resp: 1011146
 Ion Ratio Lower Upper
 105 100
 134 20.4 10.1 30.3

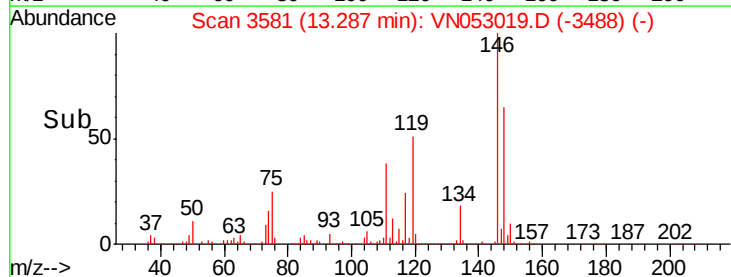
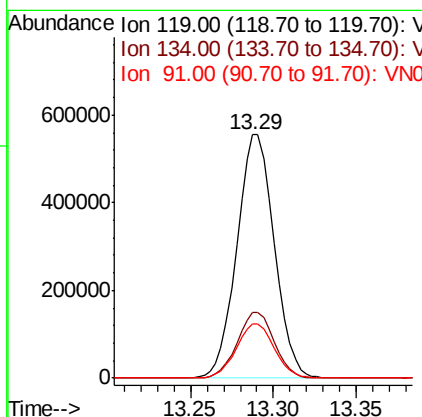
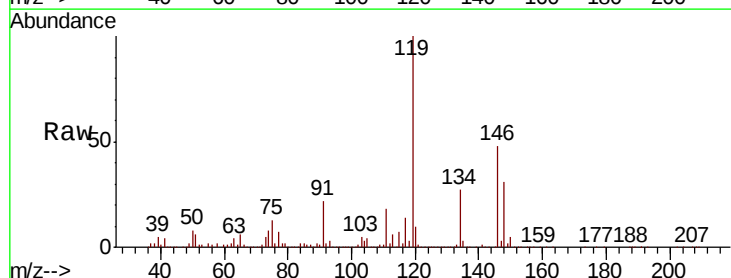
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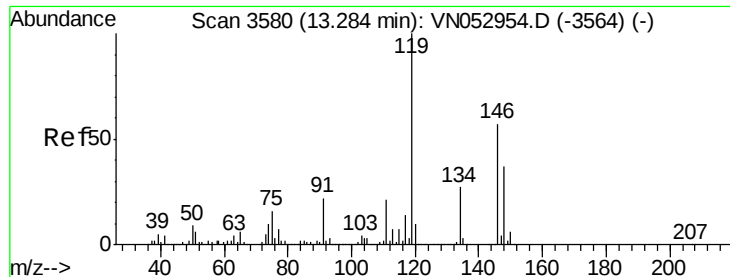
MMDadoda
 12/20/2018 9:35:07 AM



#86
 p-Isopropyltoluene
 Concen: 19.334 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Tgt Ion:119 Resp: 865399
 Ion Ratio Lower Upper
 119 100
 134 26.8 13.4 40.2
 91 22.3 11.1 33.3





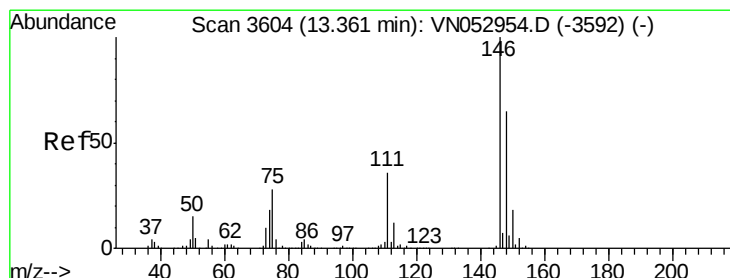
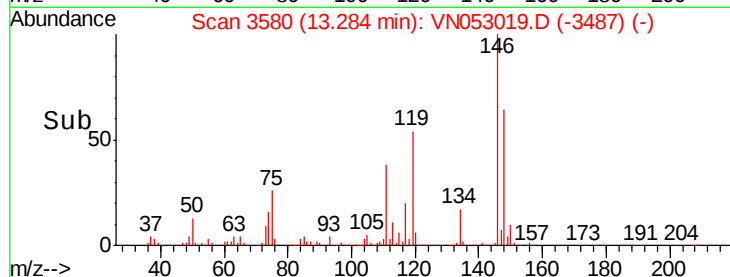
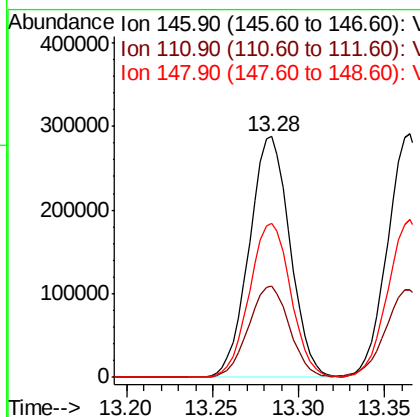
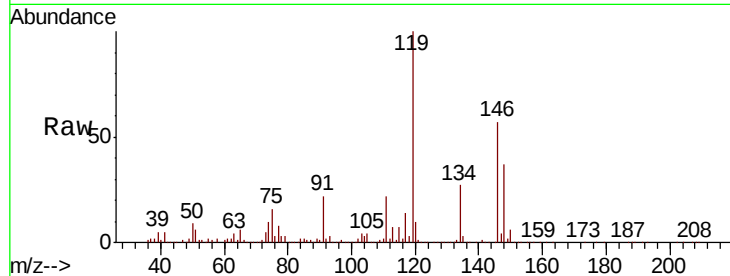
#87
 1,3-Dichlorobenzene
 Concen: 19.379 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.1	57.1
148	64.5	32.0	96.0

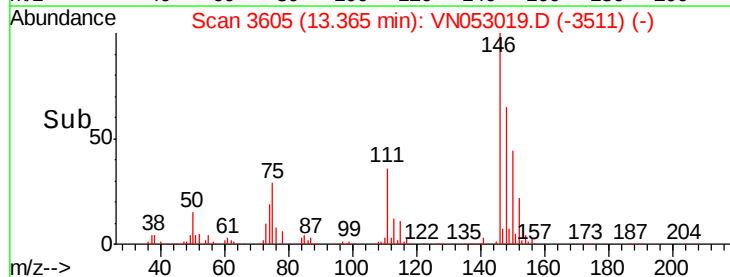
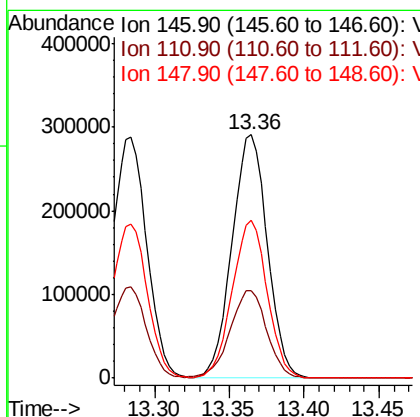
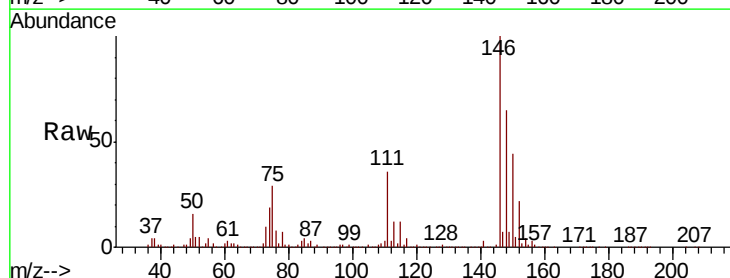
Manual Integrations
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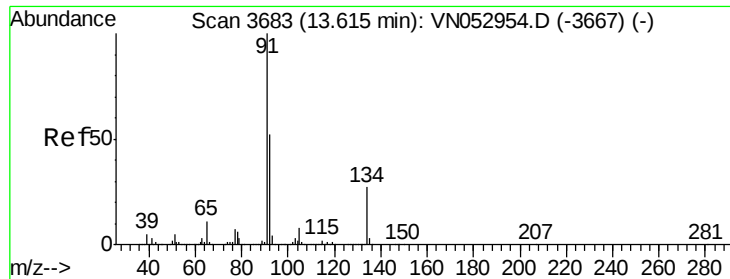
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#88
 1,4-Dichlorobenzene
 Concen: 19.306 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.6	55.8
148	64.0	32.1	96.5





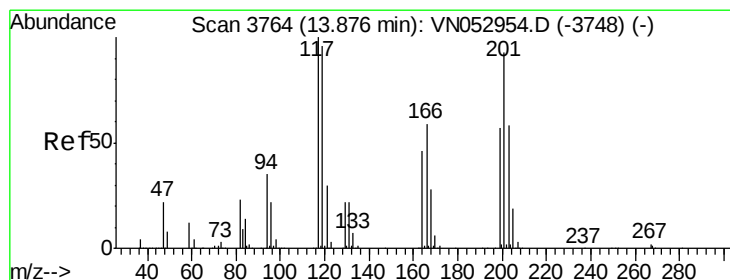
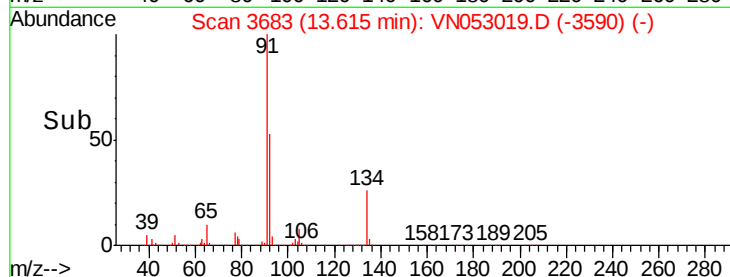
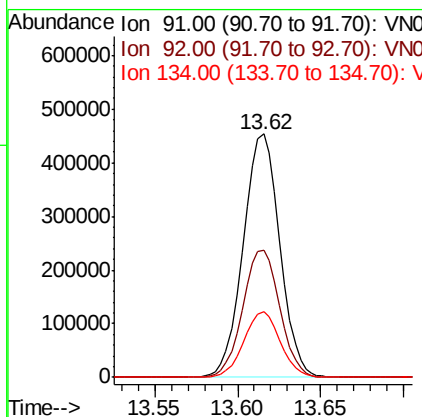
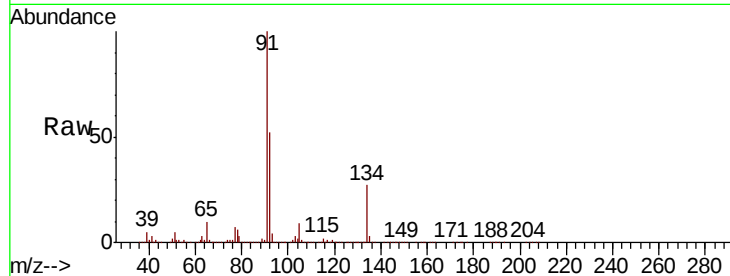
#89
n-Butylbenzene
Concen: 17.934 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.3	78.9
134	26.9	13.3	39.8

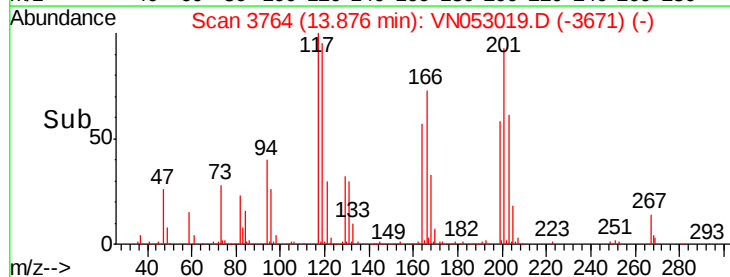
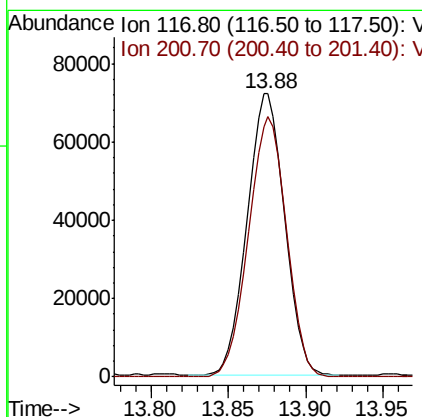
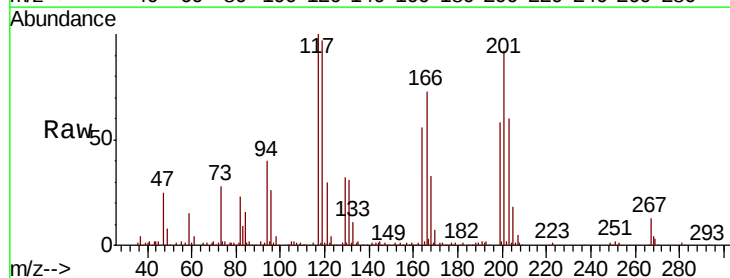
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#90
Hexachloroethane
Concen: 17.679 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.5	45.7	137.1





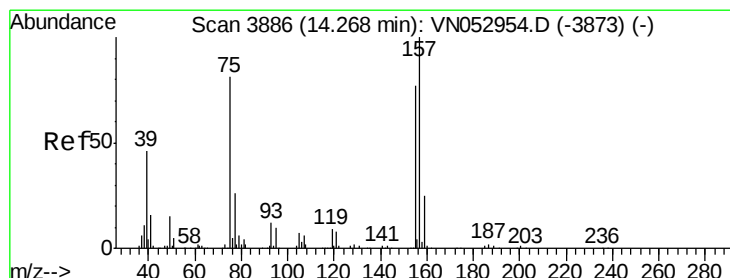
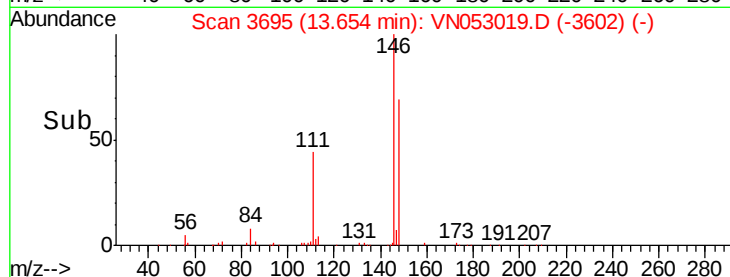
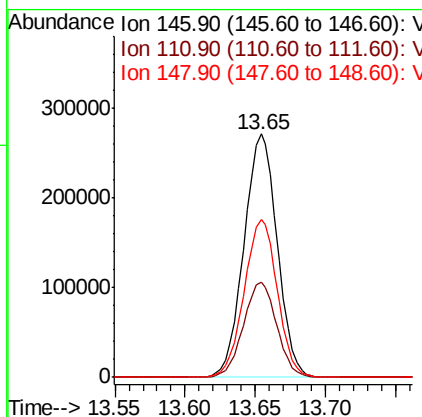
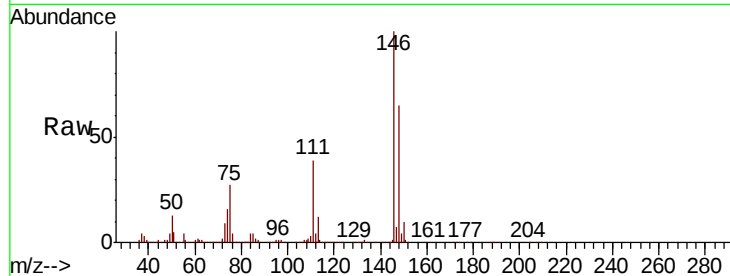
#91
 1,2-Dichlorobenzene
 Concen: 19.449 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.7	59.0
148	64.9	32.0	96.0

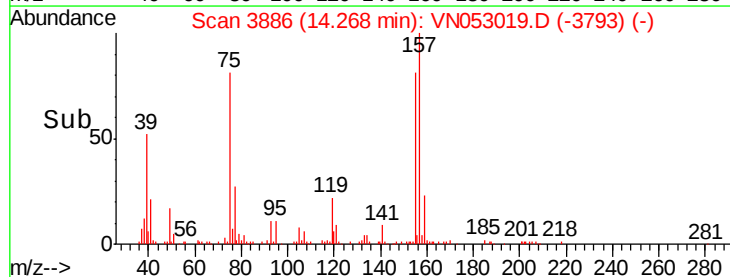
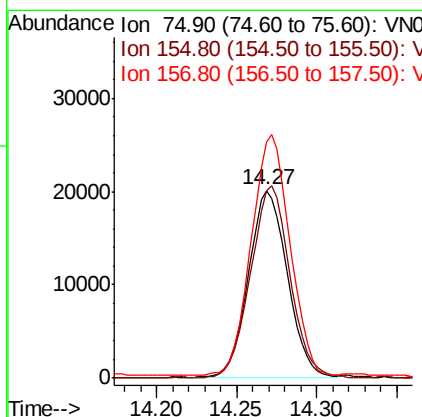
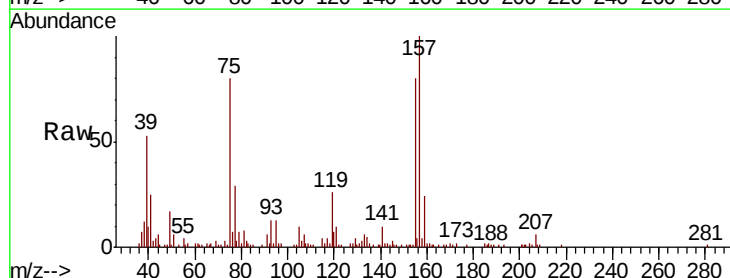
Manual Integrations
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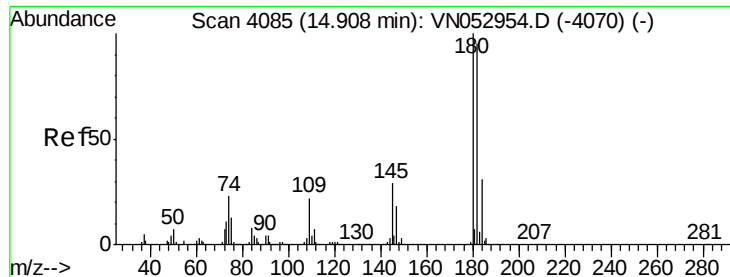
MMDadoda
 12/20/2018 9:35:07 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.718 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.3	48.2	144.6
157	125.8	61.2	183.5





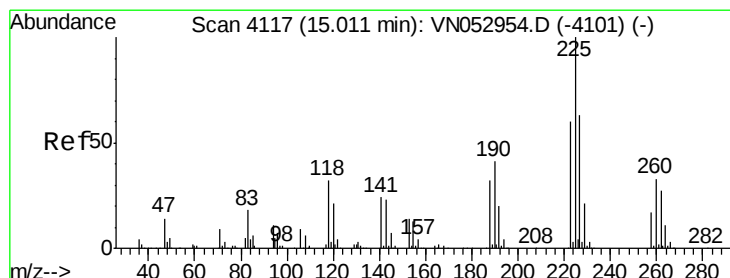
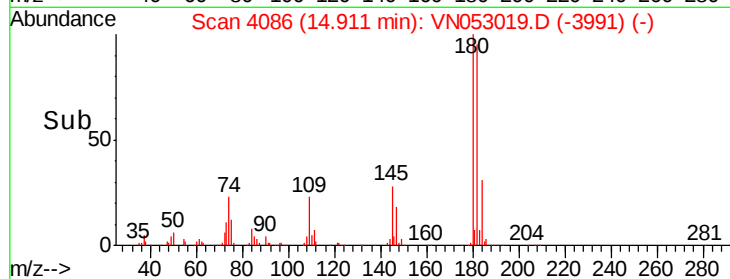
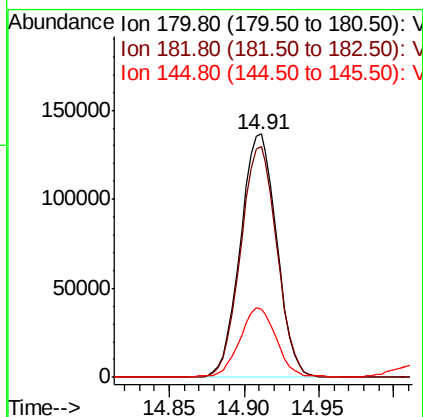
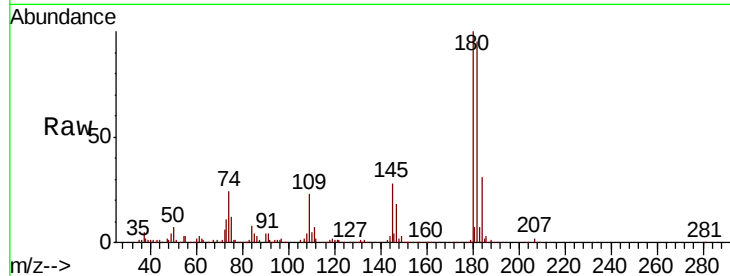
#93
 1,2,4-Trichlorobenzene
 Concen: 19.294 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	230631		
182	94.6	47.8	143.3	
145	27.9	14.2	42.6	

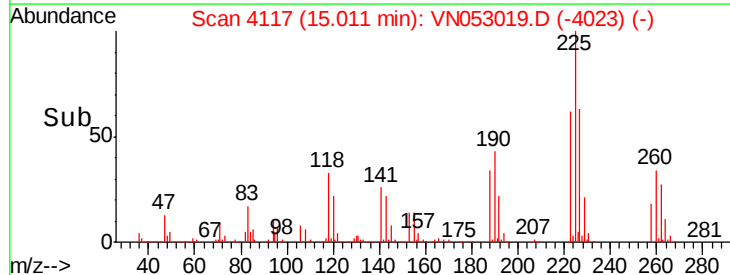
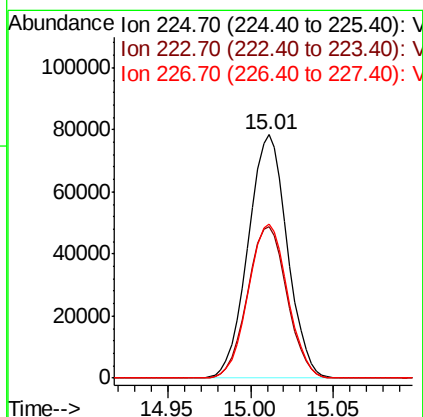
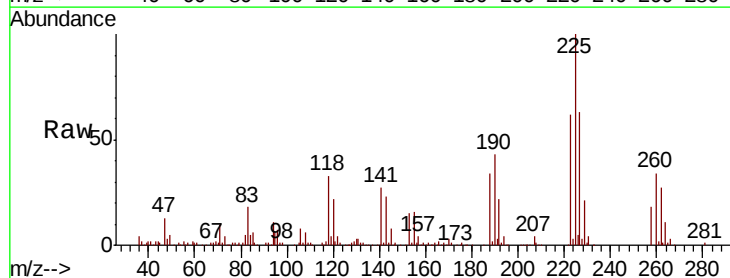
Manual Integrations
 APPROVED

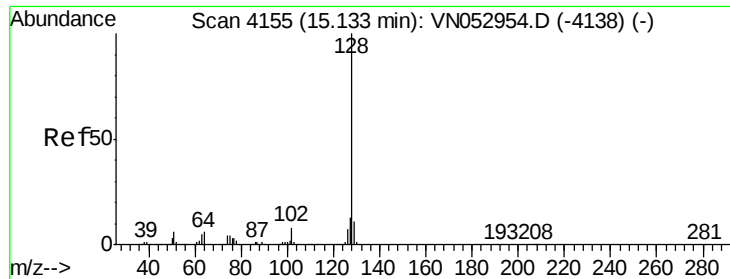
MMDadoda
 12/20/2018 9:35:07 AM



#94
 Hexachlorobutadiene
 Concen: 18.667 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053019.D
 Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	129146		
223	62.8	31.5	94.5	
227	63.5	31.9	95.7	





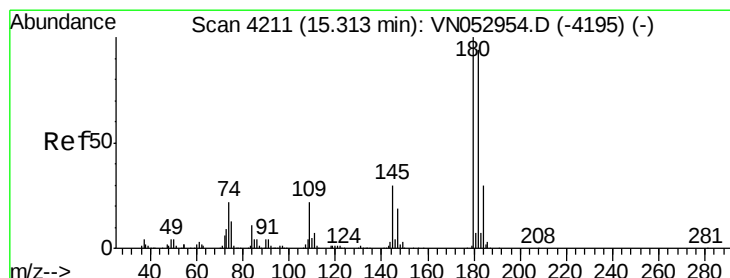
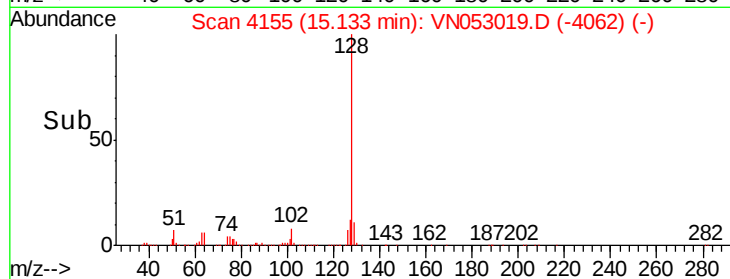
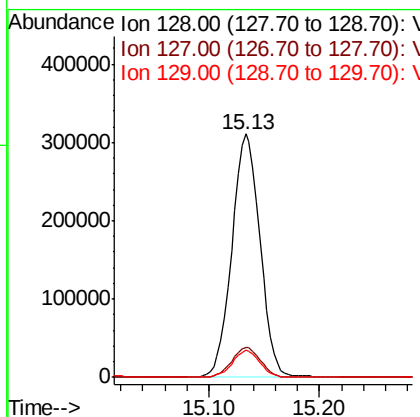
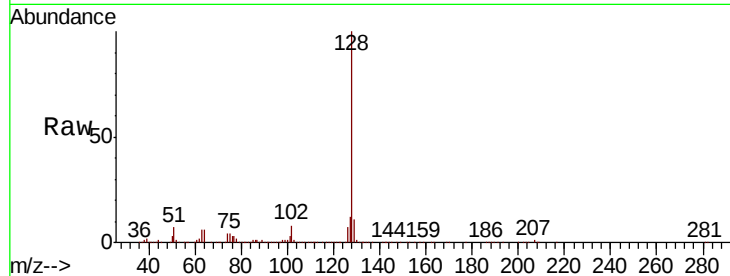
#95
Naphthalene
Concen: 21.129 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Instrument :
MSVOA_N
ClientSampleId :
VN1219WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	545993		
127	12.4		10.2	15.4
129	10.6		8.6	13.0

Manual Integrations
APPROVED

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12/20/2018 9:35:07 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.856 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN053019.D
Acq: 19 Dec 2018 18:50

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	214522		
182	95.1		47.9	143.7
145	30.6		15.0	45.0

