

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054531.D
 Acq On : 22 Mar 2019 1:20
 Operator : JC/SP
 Sample : VN0321WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBSD02

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 4:16:46 PM

Quant Time: Mar 22 10:36:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	445311	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	773007	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	644271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	266324	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	332472	60.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.04%	
35) Dibromofluoromethane	7.59	113	264450	53.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.20%	
50) Toluene-d8	10.09	98	957156	51.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.24%	
62) 4-Bromofluorobenzene	12.40	95	310250	48.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	92817	21.803	ug/l	97
3) Chloromethane	2.06	50	130026	22.449	ug/l	98
4) Vinyl Chloride	2.19	62	127714	21.962	ug/l	100
5) Bromomethane	2.57	94	72989	19.411	ug/l	96
6) Chloroethane	2.71	64	72312	20.732	ug/l	98
7) Trichlorofluoromethane	3.02	101	154847	21.926	ug/l	100
8) Diethyl Ether	3.41	74	56117	20.661	ug/l	72
9) 1,1,2-Trichlorotrifluoroet	3.75	101	78653	18.950	ug/l	95
10) Methyl Iodide	3.94	142	109097	17.869	ug/l	93
11) Tert butyl alcohol	4.83	59	43640	130.136	ug/l #	70
12) 1,1-Dichloroethene	3.73	96	86210	20.071	ug/l #	78
13) Acrolein	3.61	56	45598	98.532	ug/l	100
14) Allyl chloride	4.32	41	174797	21.612	ug/l #	94
15) Acrylonitrile	5.00	53	214605	128.509	ug/l	99
16) Acetone	3.82	43	160094	96.136	ug/l #	85
17) Carbon Disulfide	4.04	76	226014	19.639	ug/l	99
18) Methyl Acetate	4.33	43	98161	26.446	ug/l #	70
19) Methyl tert-butyl Ether	5.05	73	296305	23.638	ug/l	95
20) Methylene Chloride	4.54	84	108428	22.088	ug/l #	85
21) trans-1,2-Dichloroethene	5.04	96	102349	23.336	ug/l	88
22) Diisopropyl ether	5.96	45	376654	23.609	ug/l #	94
23) Vinyl Acetate	5.90	43	1368732	121.476	ug/l #	93
24) 1,1-Dichloroethane	5.85	63	204633	23.822	ug/l	97
25) 2-Butanone	6.85	43	258403	121.132	ug/l	92
26) 2,2-Dichloropropane	6.82	77	98510	16.088	ug/l	77
27) cis-1,2-Dichloroethene	6.83	96	119160	22.778	ug/l	93
28) Bromochloromethane	7.19	49	96976	22.936	ug/l #	75
29) Tetrahydrofuran	7.22	42	186834	134.964	ug/l #	85
30) Chloroform	7.37	83	194072	23.151	ug/l	96
31) Cyclohexane	7.65	56	191682	22.257	ug/l	88
32) 1,1,1-Trichloroethane	7.57	97	159566	23.072	ug/l	96
36) 1,1-Dichloropropene	7.79	75	144905	20.049	ug/l	96
37) Ethyl Acetate	6.94	43	121474	23.630	ug/l	95
38) Carbon Tetrachloride	7.77	117	139681	19.887	ug/l	96

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 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 VN0321WBSD02

Manual Integrations
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Quant Time: Mar 22 10:36:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	156194	18.892	ug/l	91
40) Benzene	8.04	78	430205	20.815	ug/l	99
41) Methacrylonitrile	7.18	41	66306	21.150	ug/l	92
42) 1,2-Dichloroethane	8.13	62	155846	20.705	ug/l	98
43) Isopropyl Acetate	8.17	43	196801	22.669	ug/l #	95
44) Trichloroethene	8.83	130	114173	19.870	ug/l	98
45) 1,2-Dichloropropane	9.12	63	122401	22.055	ug/l	99
46) Dibromomethane	9.21	93	72317	21.842	ug/l	89
47) Bromodichloromethane	9.40	83	141562	20.602	ug/l	95
48) Methyl methacrylate	9.20	41	104069	22.086	ug/l	87
49) 1,4-Dioxane	9.21	88	24045	456.447	ug/l	88
51) 4-Methyl-2-Pentanone	9.99	43	563334	117.082	ug/l	93
52) Toluene	10.16	92	257310	20.242	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	122841	18.423	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	155426	19.728	ug/l	91
55) 1,1,2-Trichloroethane	10.56	97	97595	21.358	ug/l	98
56) Ethyl methacrylate	10.43	69	131115	21.378	ug/l #	84
57) 1,3-Dichloropropane	10.71	76	170199	21.427	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	264519	104.741	ug/l	91
59) 2-Hexanone	10.75	43	354082	112.666	ug/l	92
60) Dibromochloromethane	10.90	129	100454	20.660	ug/l	98
61) 1,2-Dibromoethane	11.01	107	93047	20.597	ug/l	97
64) Tetrachloroethene	10.63	164	107509	20.118	ug/l	95
65) Chlorobenzene	11.43	112	267601	20.422	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	103126	21.926	ug/l	99
67) Ethyl Benzene	11.51	91	467845	20.212	ug/l	99
68) m/p-Xylenes	11.62	106	346792	39.555	ug/l	94
69) o-Xylene	11.95	106	172543	20.152	ug/l	96
70) Styrene	11.96	104	279037	20.068	ug/l	97
71) Bromoform	12.13	173	60026	19.910	ug/l #	98
73) Isopropylbenzene	12.25	105	447499	20.852	ug/l	99
74) N-amyl acetate	12.07	43	146151	23.684	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.51	83	119441	24.381	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	107972m	25.549	ug/l	
77) Bromobenzene	12.53	156	112431	21.123	ug/l	85
78) n-propylbenzene	12.59	91	488509	20.992	ug/l	96
79) 2-Chlorotoluene	12.67	91	302702	20.859	ug/l	95
80) 1,3,5-Trimethylbenzene	12.73	105	364474	20.722	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	19992	18.445	ug/l #	77
82) 4-Chlorotoluene	12.77	91	290146	20.627	ug/l	97
83) tert-Butylbenzene	12.99	119	325206	21.241	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	362936	21.029	ug/l	98
85) sec-Butylbenzene	13.17	105	402398	21.084	ug/l	97
86) p-Isopropyltoluene	13.29	119	350655	20.536	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	179736	20.377	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	171725	20.010	ug/l	98
89) n-Butylbenzene	13.62	91	259579	19.442	ug/l	98
90) Hexachloroethane	13.87	117	54919	20.721	ug/l	92
91) 1,2-Dichlorobenzene	13.65	146	178930	20.944	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	16859	23.462	ug/l	92

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Manual Integrations
APPROVED

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Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	82739	19.427	ug/l	100
94) Hexachlorobutadiene	15.01	225	53858	21.074	ug/l	97
95) Naphthalene	15.13	128	203243	21.395	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	87662	20.681	ug/l	98

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

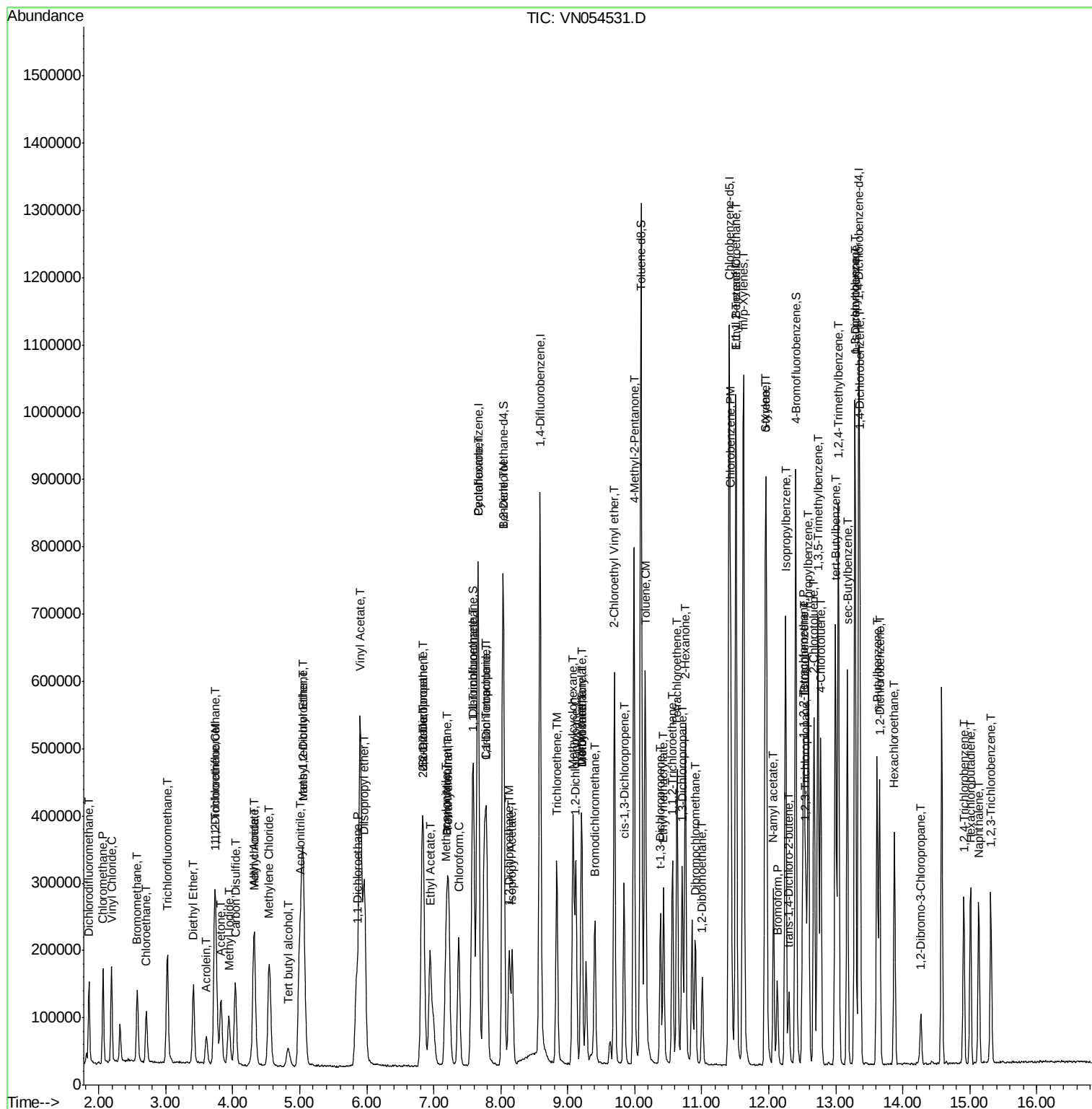
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 Data File : VN054531.D
 Acq On : 22 Mar 2019 1:20
 Operator : JC/SP
 Sample : VN0321WBSD02
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 ALS Vial : 30 Sample Multiplier: 1

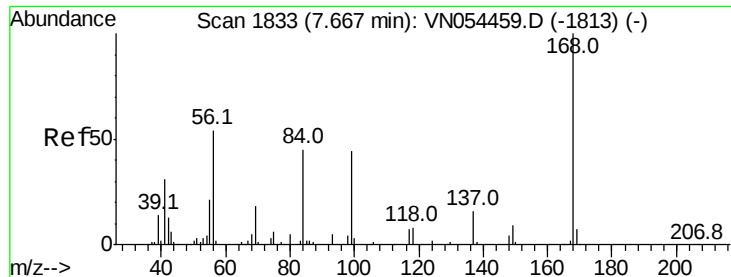
Instrument :
 MSVOA_N
 Client Sampled :
 VN0321WBSD02

Manual Integrations
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MMDadoda
 3/22/2019 4:16:46 PM

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 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion:168 Resp: 445311

Ion Ratio Lower Upper

168 100

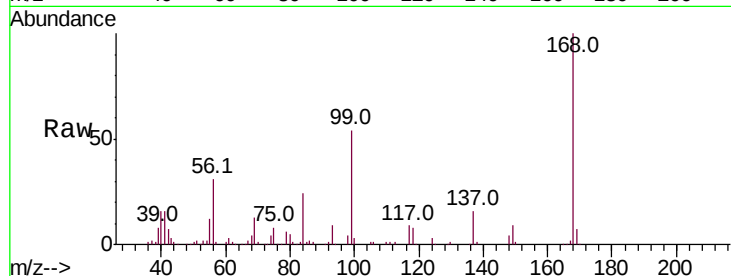
99 53.0 37.1 55.7

Manual Integrations

APPROVED

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3/22/2019 4:16:46 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

200000

150000

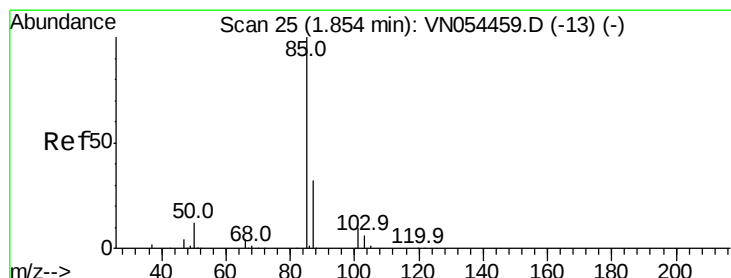
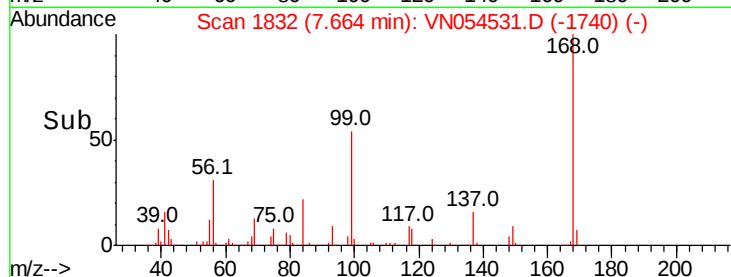
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 21.803 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN054531.D

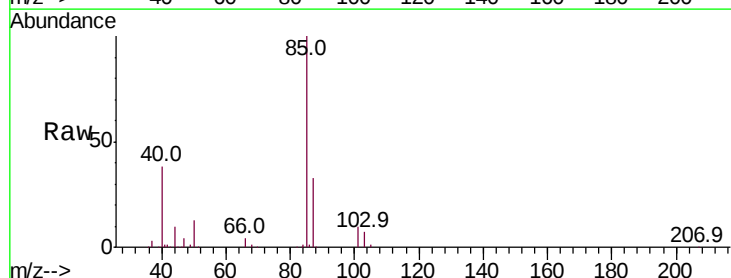
Acq: 22 Mar 2019 1:20

Tgt Ion: 85 Resp: 92817

Ion Ratio Lower Upper

85 100

87 33.4 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

60000

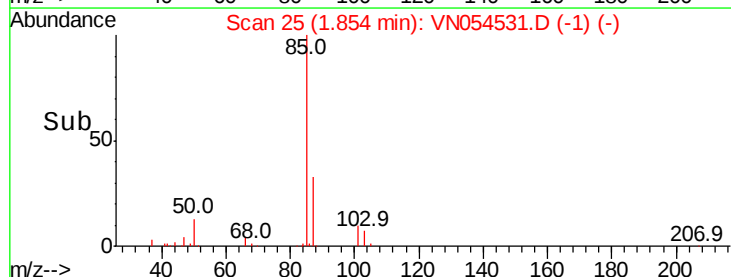
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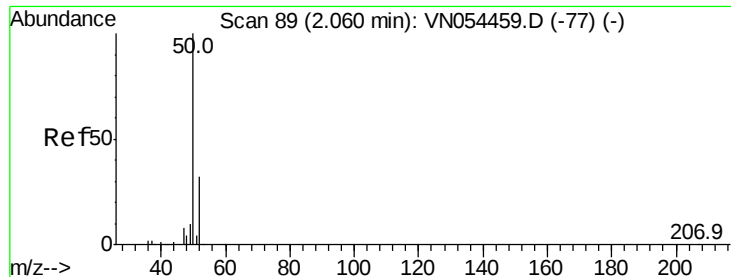
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 22.449 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion: 50 Resp: 130026

Ion Ratio Lower Upper

50 100

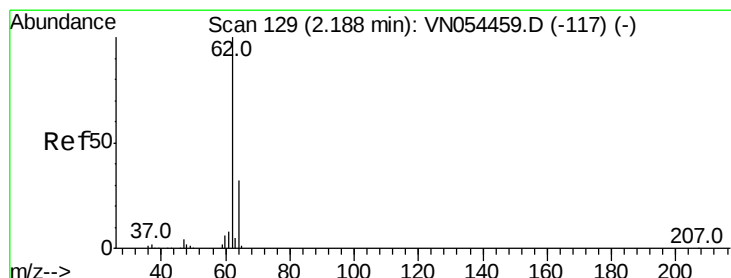
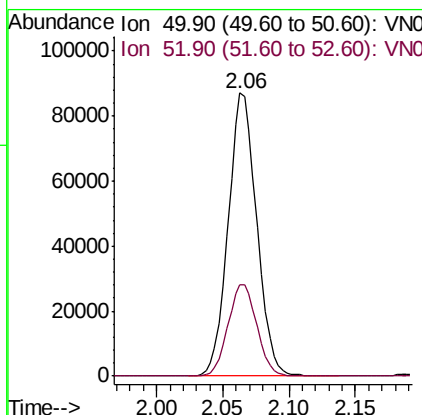
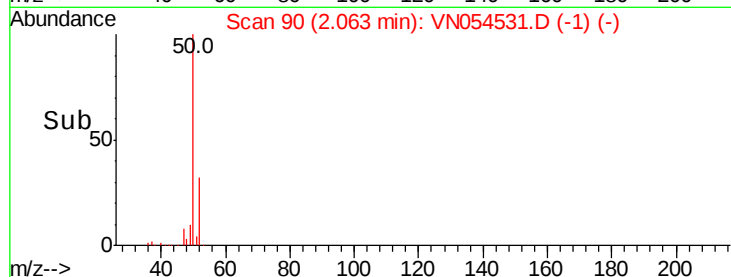
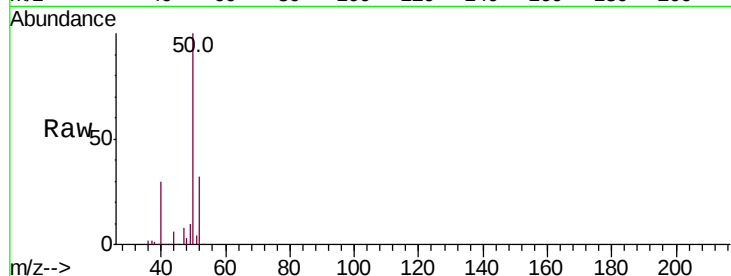
52 32.1 26.4 39.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.962 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054531.D

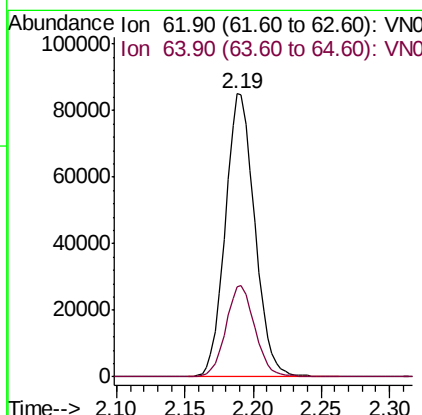
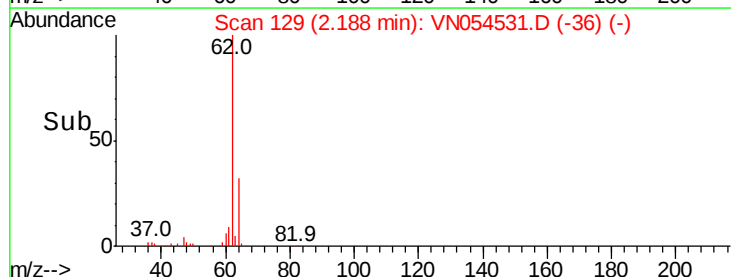
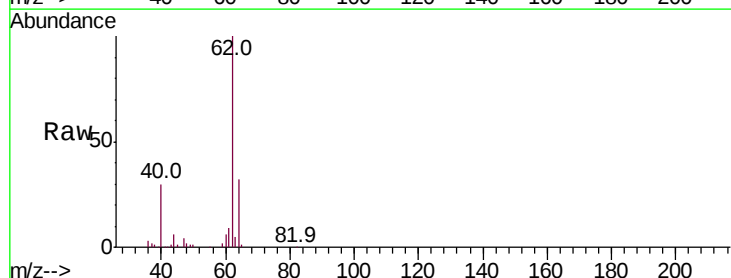
Acq: 22 Mar 2019 1:20

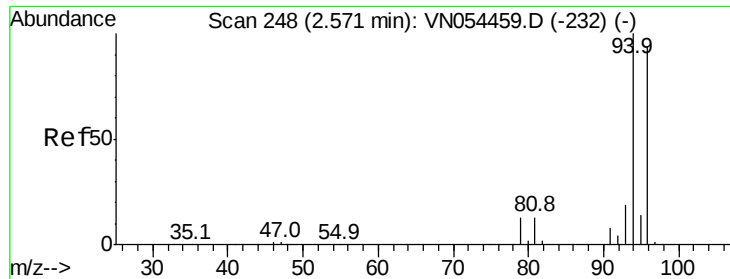
Tgt Ion: 62 Resp: 127714

Ion Ratio Lower Upper

62 100

64 31.7 25.5 38.3





#5

Bromomethane

Concen: 19.411 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion: 94 Resp: 72989

Ion Ratio Lower Upper

94 100

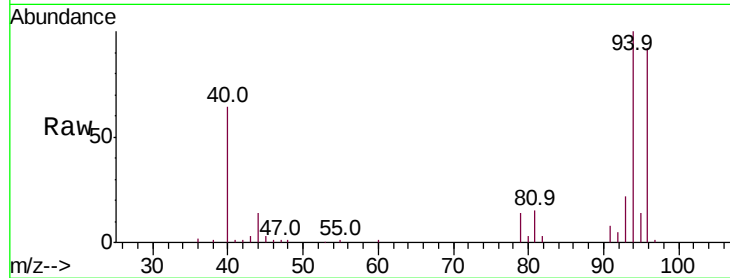
96 92.2 77.0 115.4

Manual Integrations

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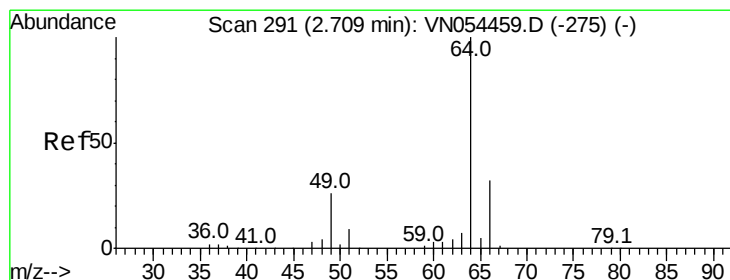
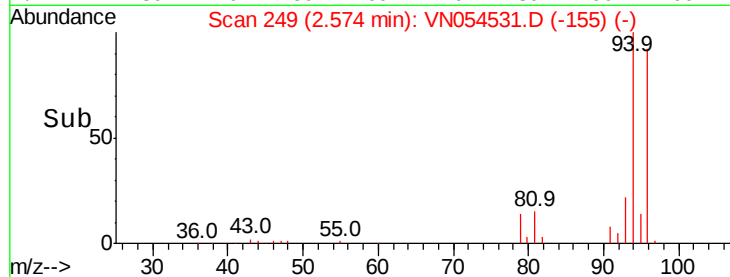
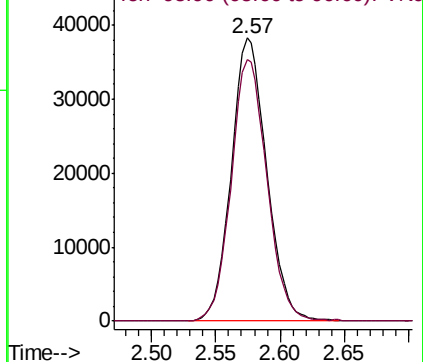
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.732 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054531.D

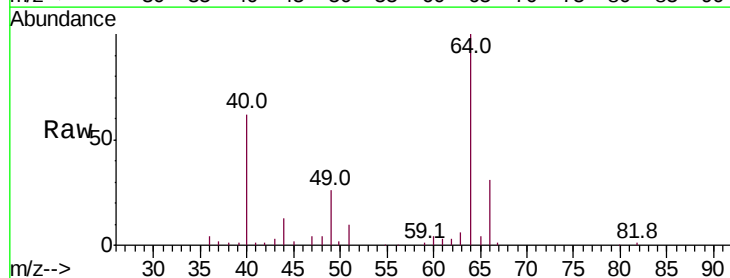
Acq: 22 Mar 2019 1:20

Tgt Ion: 64 Resp: 72312

Ion Ratio Lower Upper

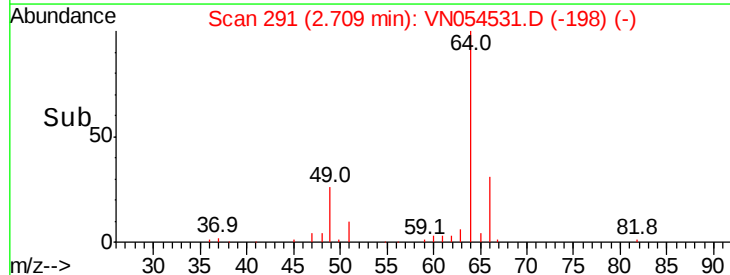
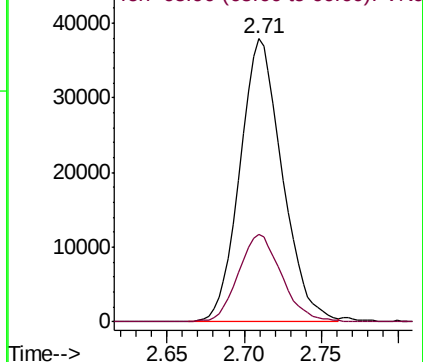
64 100

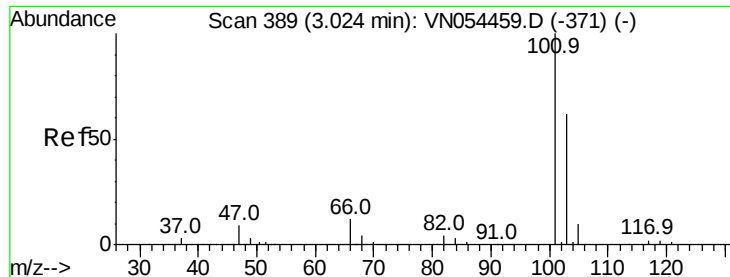
66 30.9 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

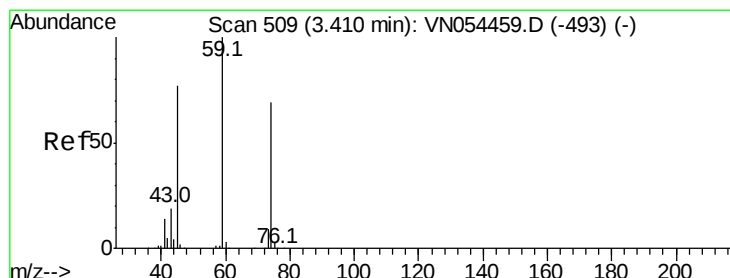
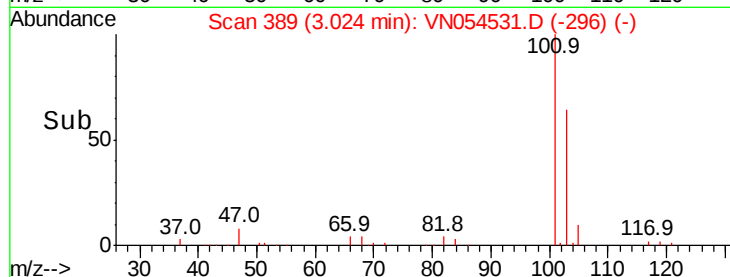
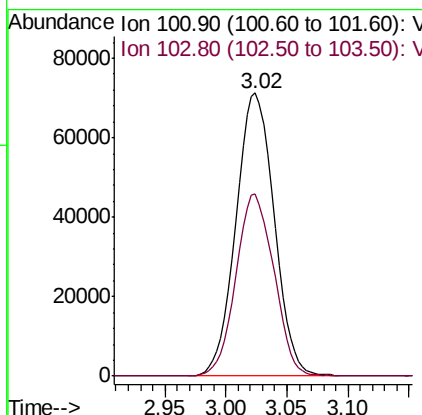
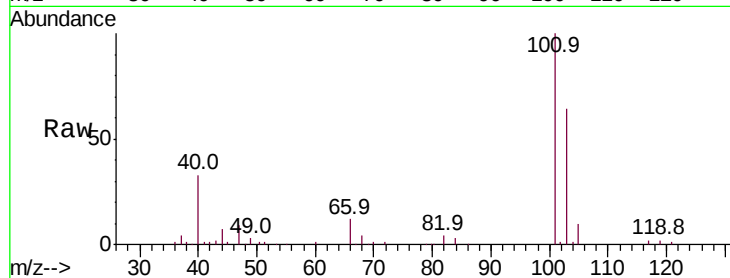
Trichlorofluoromethane
Concen: 21.926 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.4	77.2

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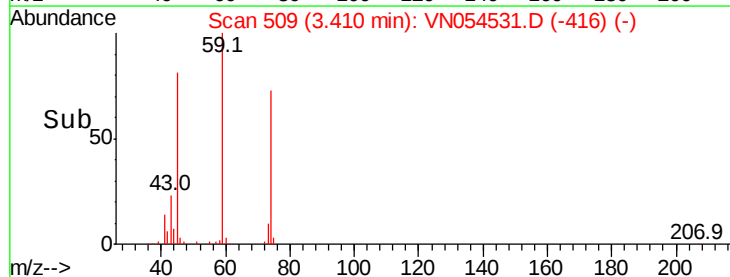
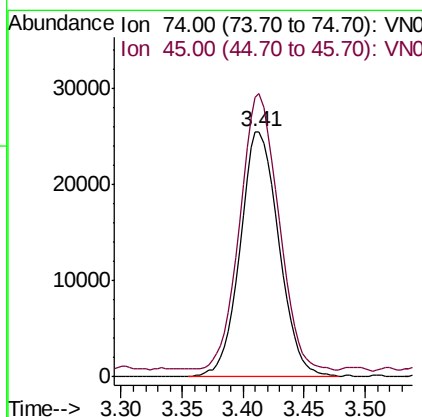
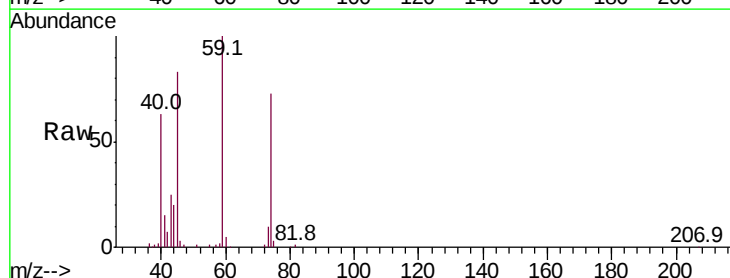
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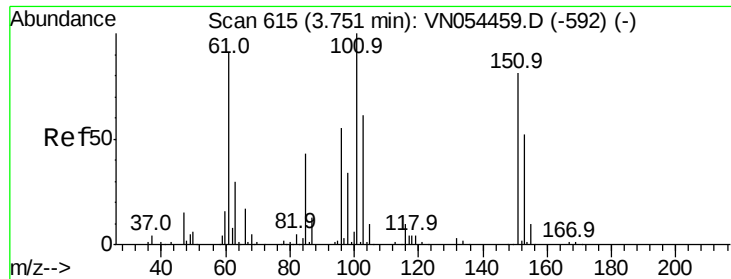


#8

Diethyl Ether
Concen: 20.661 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
74	100		
45	112.1	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.950 ug/l

RT: 3.75 min Scan# 615

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

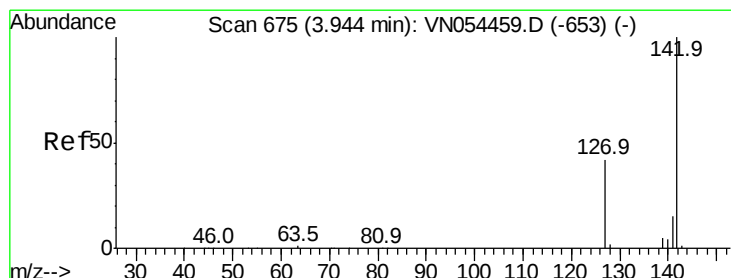
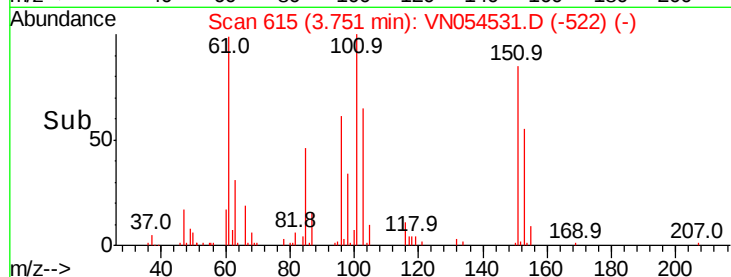
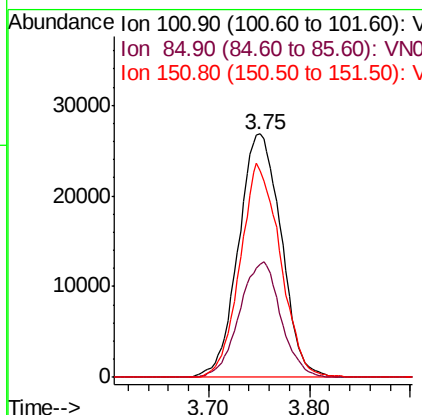
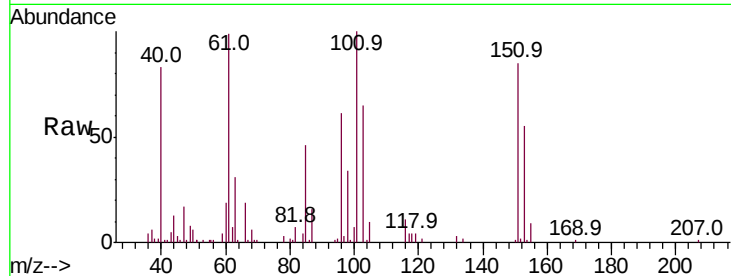
ClientSampleId :

VN0321WBSD02

Tot Ion:	101	Resp:	78653
Ion Ratio	Lower	Upper	
101	100		
85	46.0	32.4	48.6
151	82.9	68.2	102.2

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#10

Methyl Iodide

Concen: 17.869 ug/l

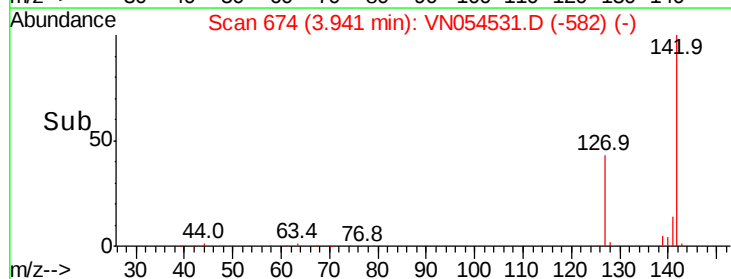
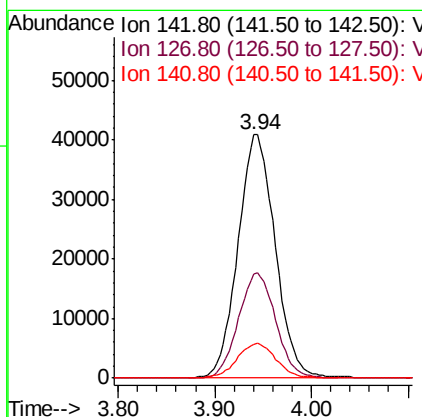
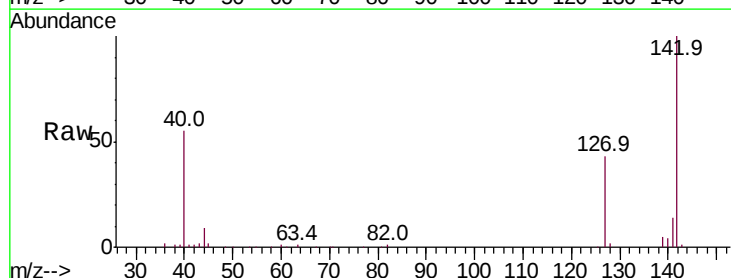
RT: 3.94 min Scan# 674

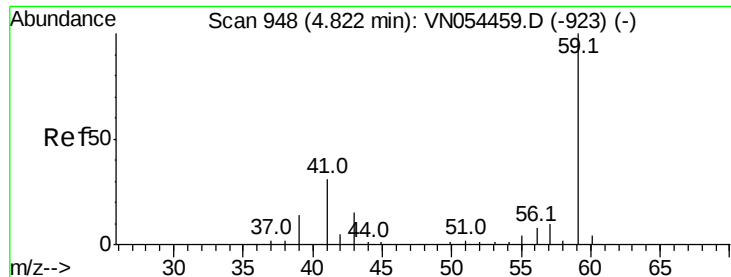
Delta R.T. -0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion:	142	Resp:	109097
Ion Ratio	Lower	Upper	
142	100		
127	43.2	30.3	45.5
141	14.9	11.2	16.8





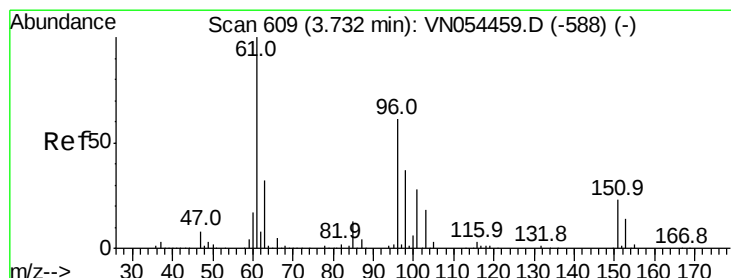
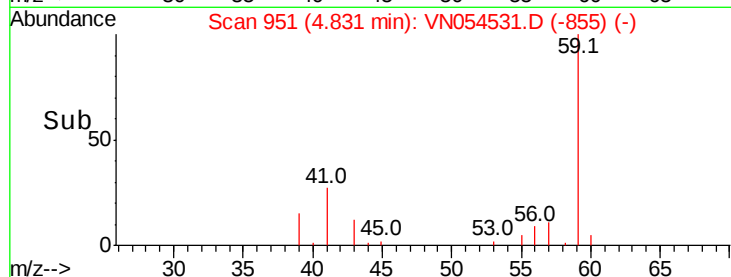
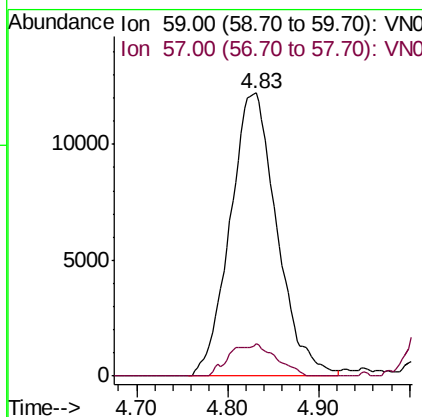
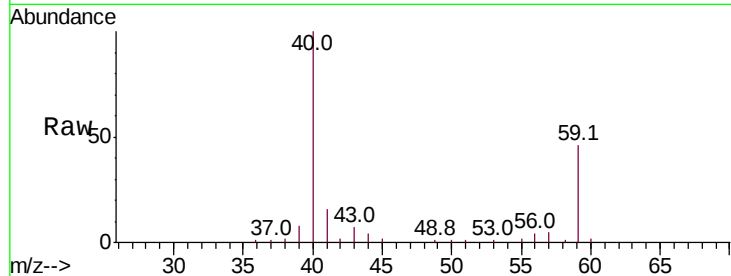
#11
Tert butyl alcohol
Concen: 130.136 ug/l
RT: 4.83 min Scan# 951
Delta R.T. 0.01 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion: 59 Resp: 43640
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#

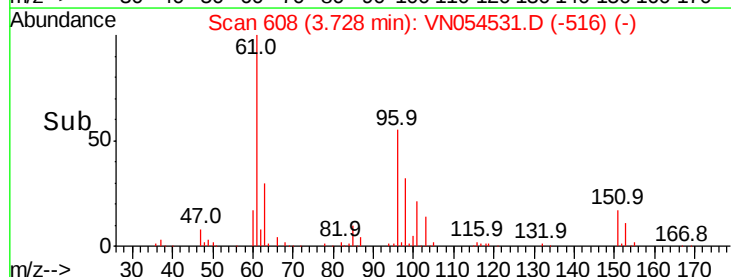
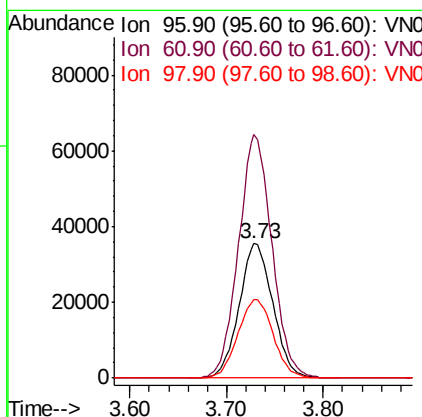
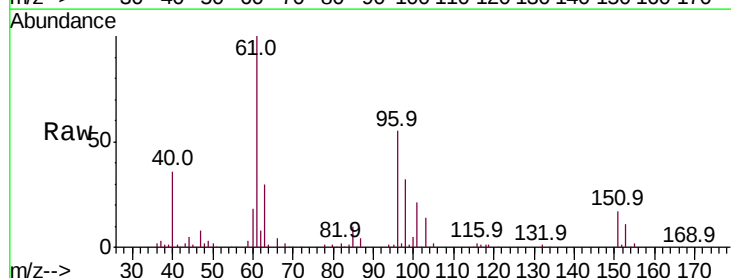
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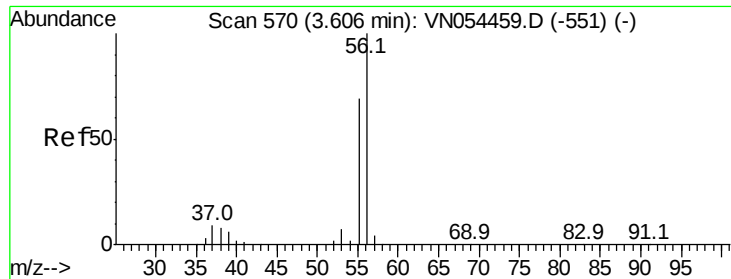
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#12
1,1-Dichloroethene
Concen: 20.071 ug/l
RT: 3.73 min Scan# 608
Delta R.T. -0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion: 96 Resp: 86210
Ion Ratio Lower Upper
96 100
61 180.8 116.5 174.7#
98 58.4 51.0 76.4





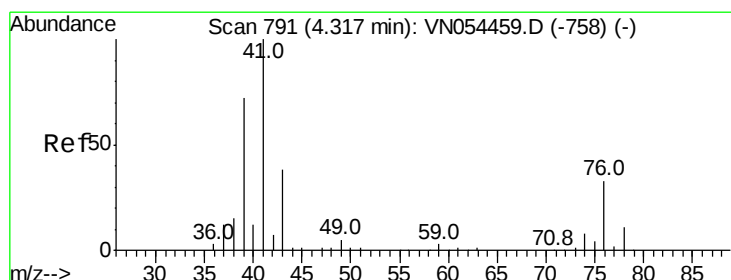
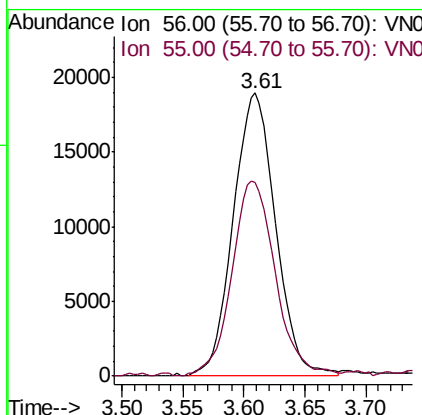
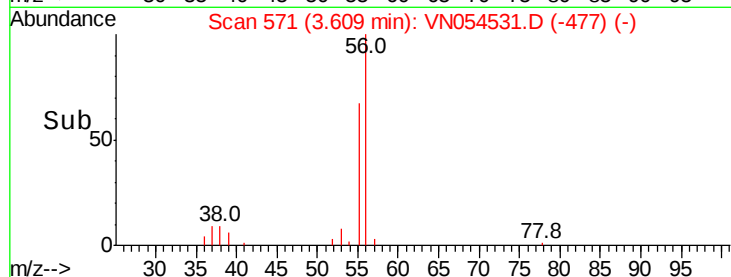
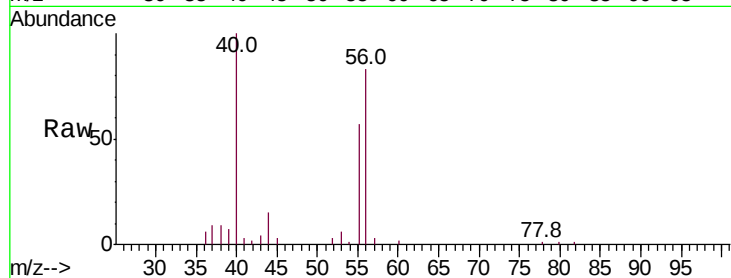
#13
 Acrolein
 Concen: 98.532 ug/l
 RT: 3.61 min Scan# 571
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
55	70.7	56.7	85.1

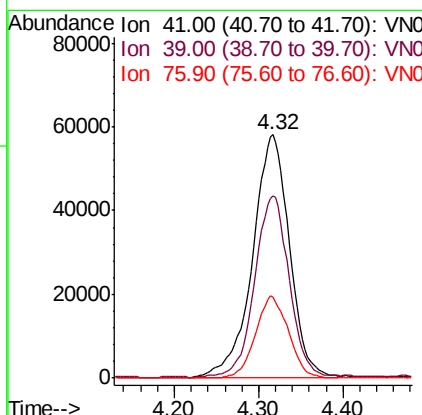
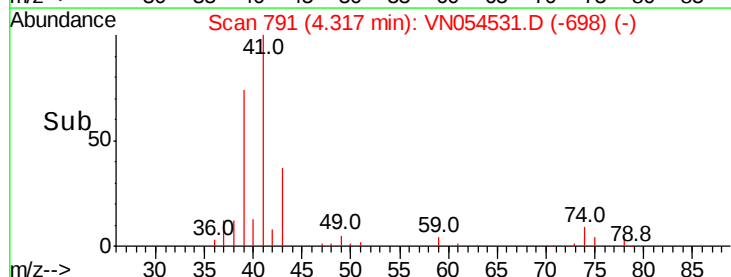
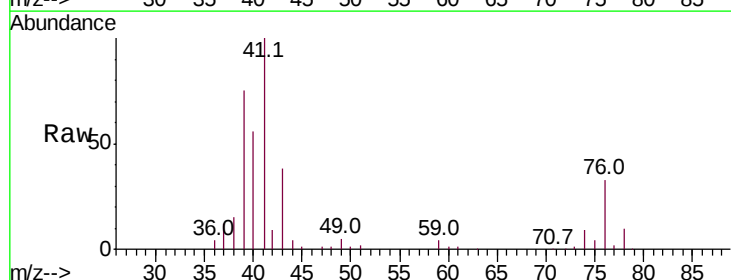
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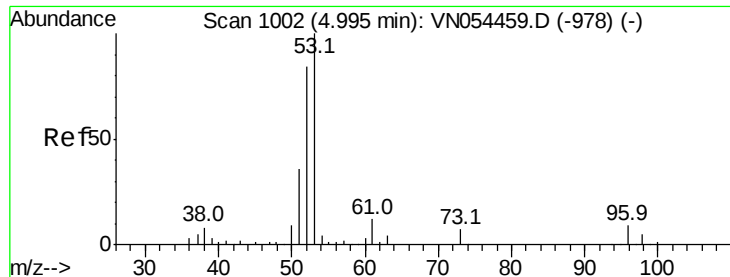
MMDadoda
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#14
 Allyl chloride
 Concen: 21.612 ug/l
 RT: 4.32 min Scan# 791
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
41	100		
39	71.6	58.2	87.4
76	30.3	31.7	47.5#





#15

Acrylonitrile

Concen: 128.509 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

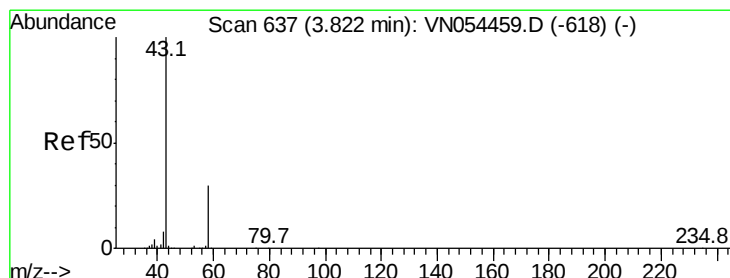
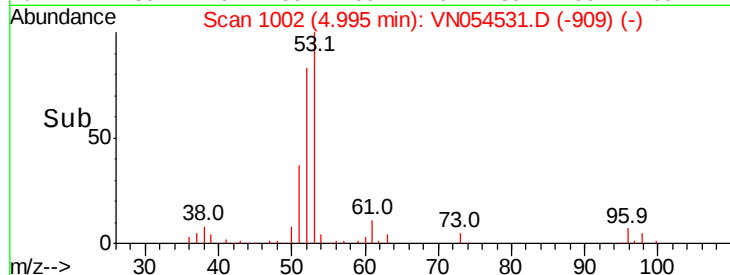
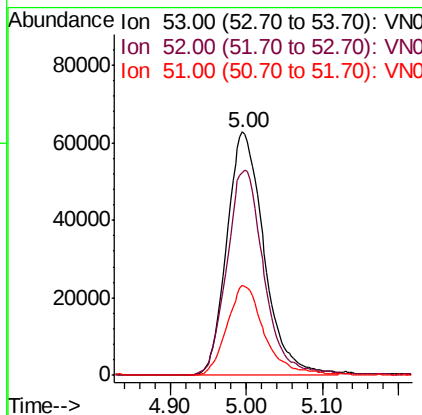
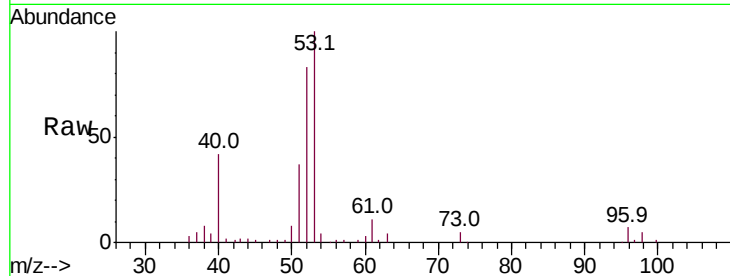
ClientSampleId :

VN0321WBSD02

Tot Ion:	53	Resp:	214605
Ion Ratio	Lower	Upper	
53	100		
52	84.0	66.4	99.6
51	37.4	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 96.136 ug/l

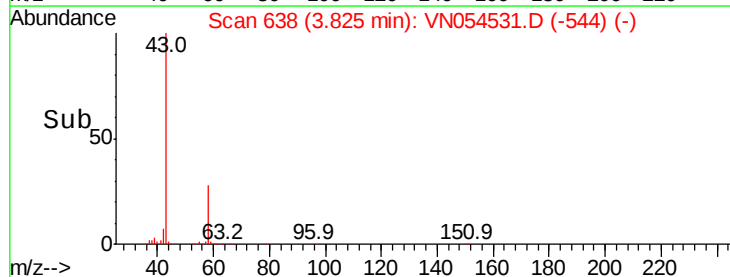
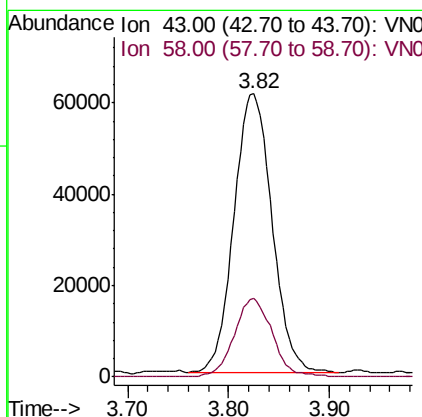
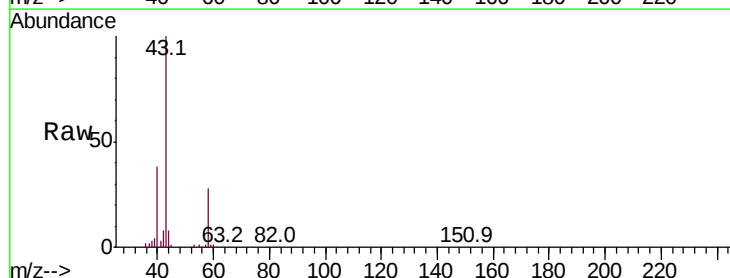
RT: 3.82 min Scan# 638

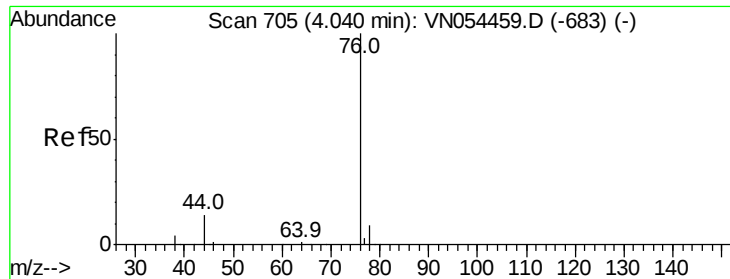
Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion:	43	Resp:	160094
Ion Ratio	Lower	Upper	
43	100		
58	28.1	29.9	44.9#





#17

Carbon Disulfide

Concen: 19.639 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion: 76 Resp: 226014

Ion Ratio Lower Upper

76 100

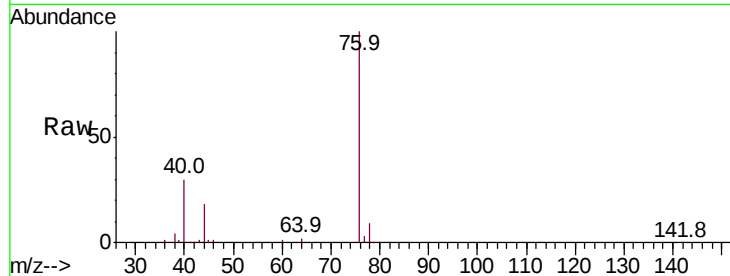
78 9.2 7.5 11.3

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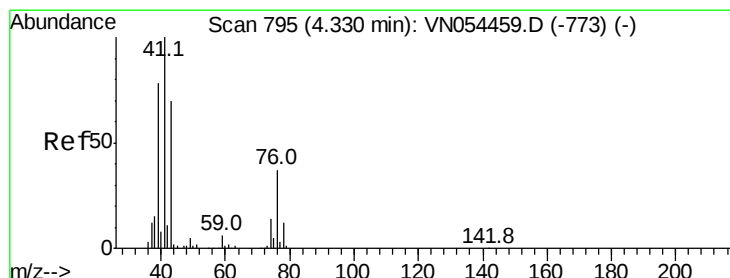
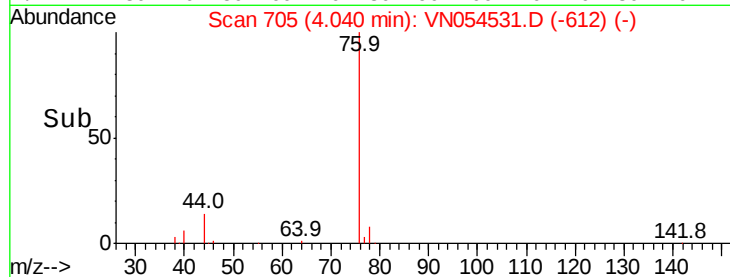
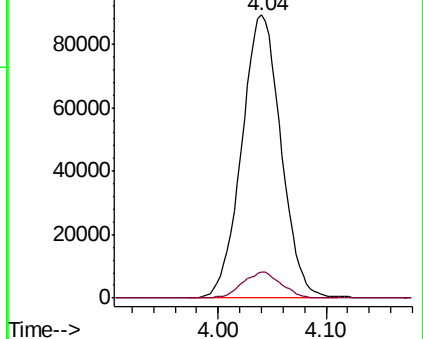
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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 26.446 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054531.D

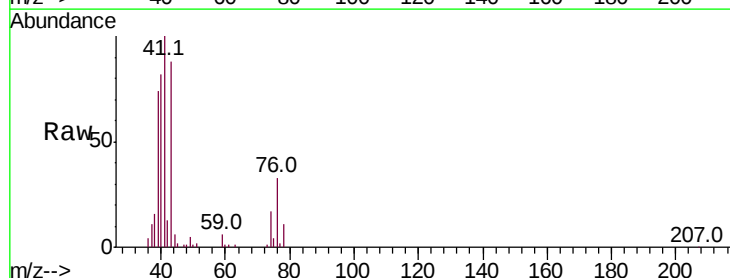
Acq: 22 Mar 2019 1:20

Tgt Ion: 43 Resp: 98161

Ion Ratio Lower Upper

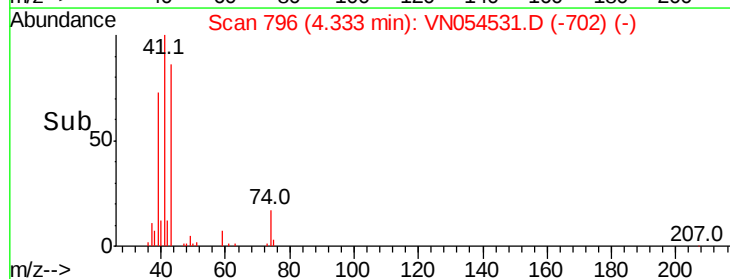
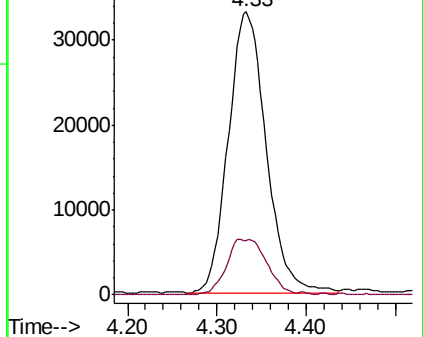
43 100

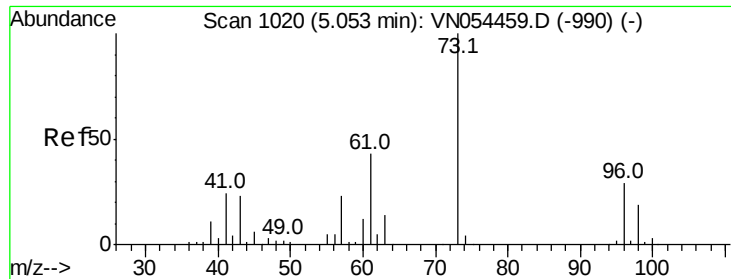
74 10.5 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





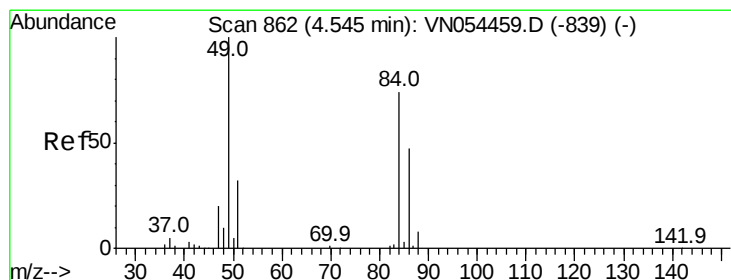
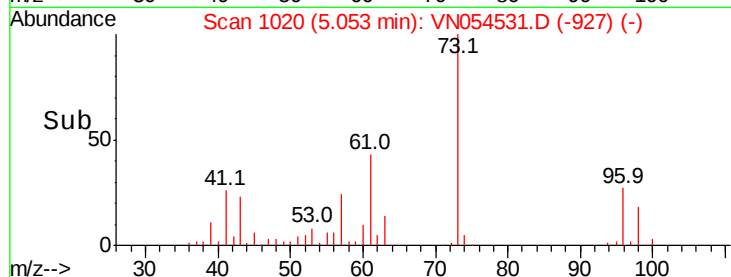
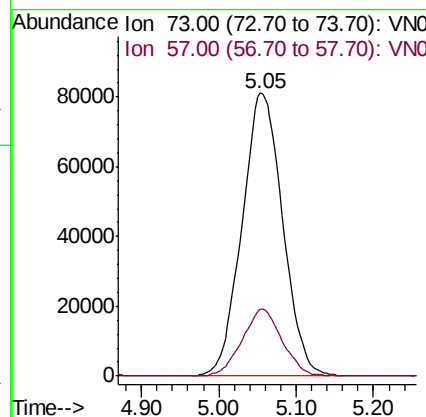
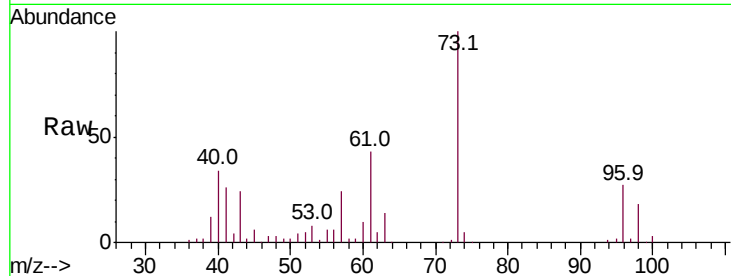
#19
Methvl tert-butvl Ether
Concen: 23.638 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion: 73 Resp: 296305
Ion Ratio Lower Upper
73 100
57 23.5 16.8 25.2

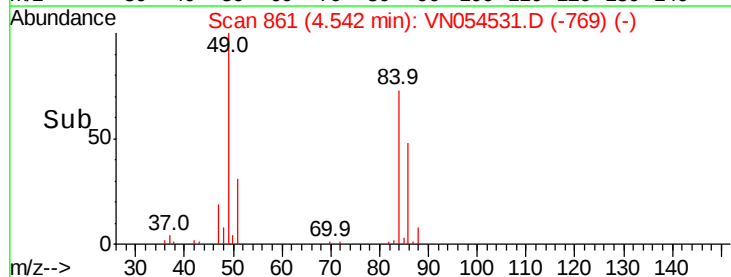
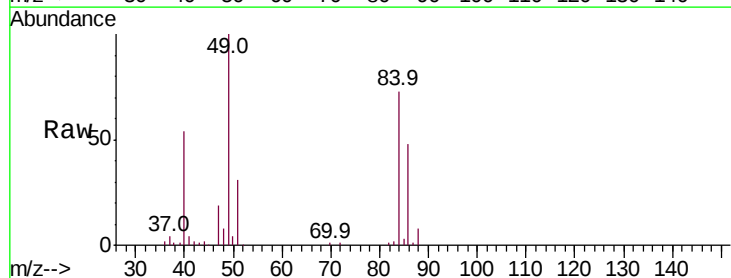
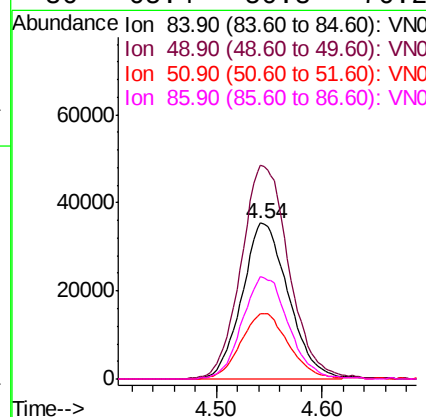
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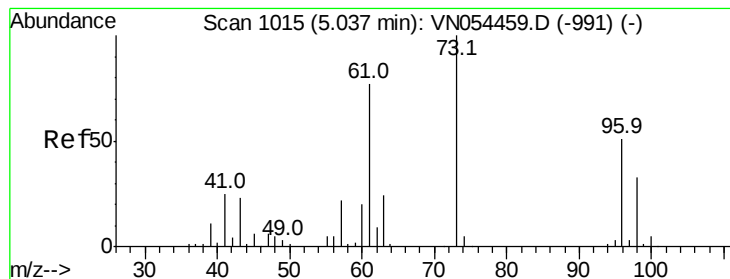
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#20
Methylene Chloride
Concen: 22.088 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion: 84 Resp: 108428
Ion Ratio Lower Upper
84 100
49 136.5 89.7 134.5#
51 41.9 28.2 42.4
86 65.4 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 23.336 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion: 96 Resp: 102349

Ion Ratio Lower Upper

96 100

61 147.0 102.8 154.2

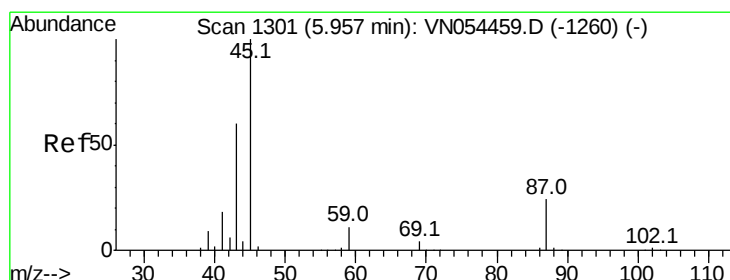
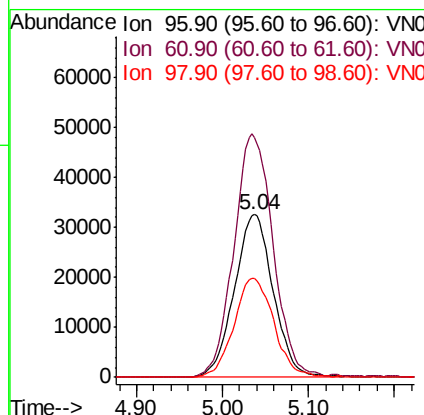
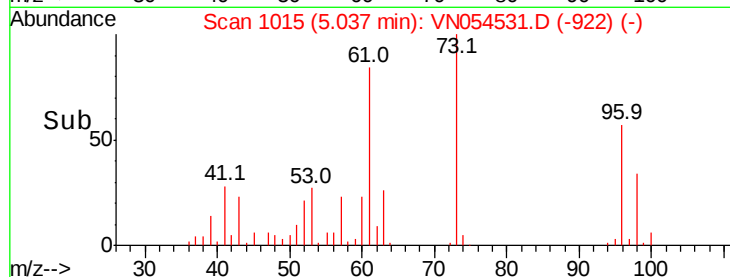
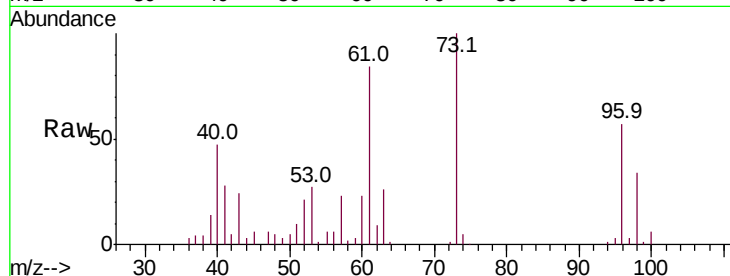
98 60.4 50.0 75.0

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#22

Diisopropyl ether

Concen: 23.609 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion: 45 Resp: 376654

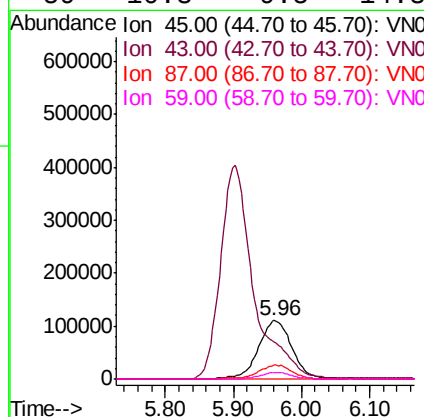
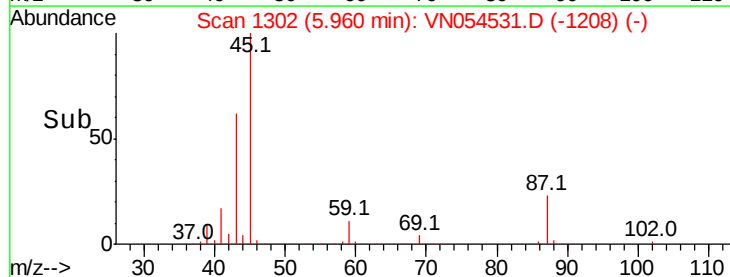
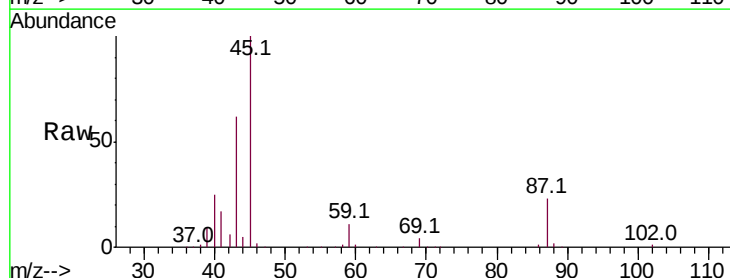
Ion Ratio Lower Upper

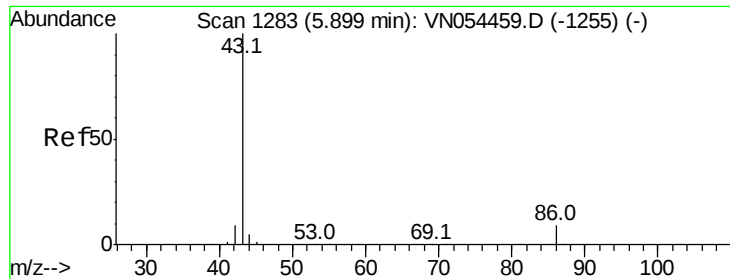
45 100

43 61.8 48.2 72.2

87 23.2 24.9 37.3#

59 10.3 9.5 14.3





#23

Vinyl Acetate

Concen: 121.476 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion: 43 Resp: 1368732

Ion Ratio Lower Upper

43 100

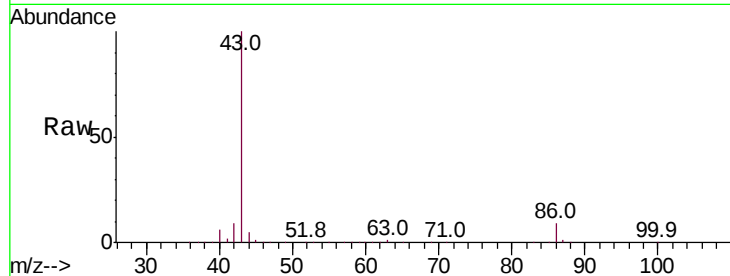
86 8.8 9.1 13.7#

Manual Integrations

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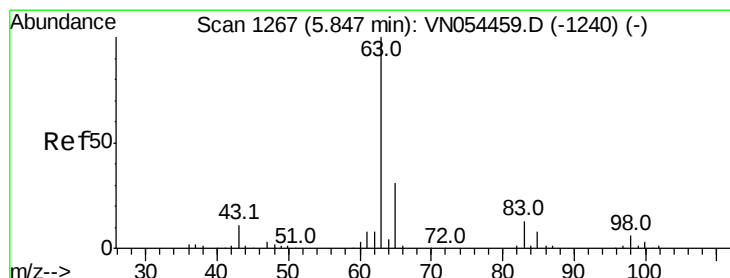
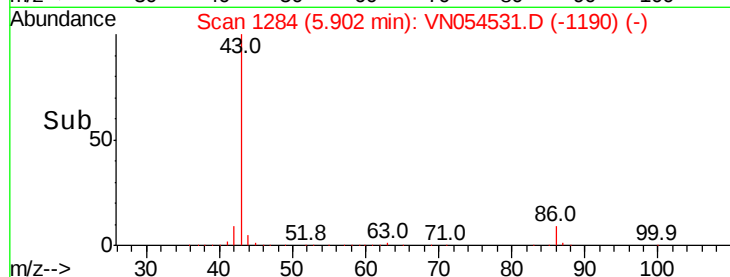
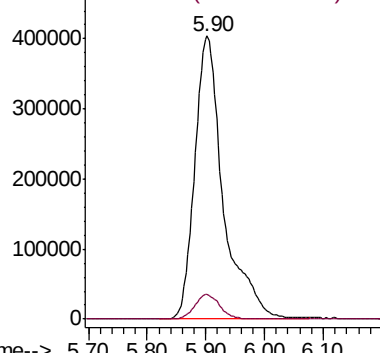
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 23.822 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

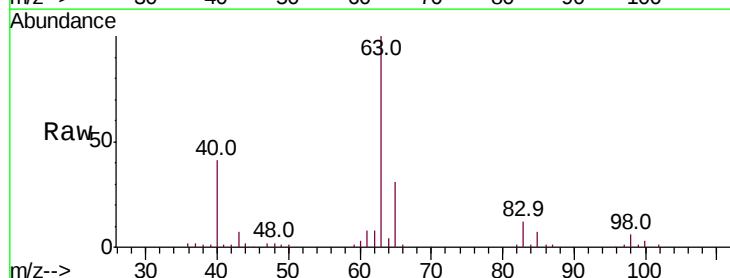
Tgt Ion: 63 Resp: 204633

Ion Ratio Lower Upper

63 100

98 5.6 3.5 10.5

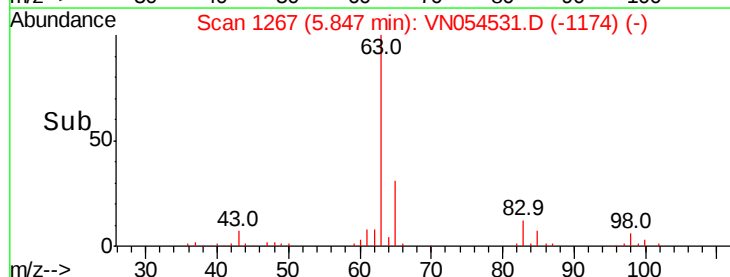
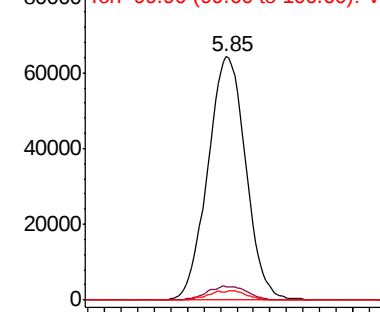
100 3.4 2.0 6.0

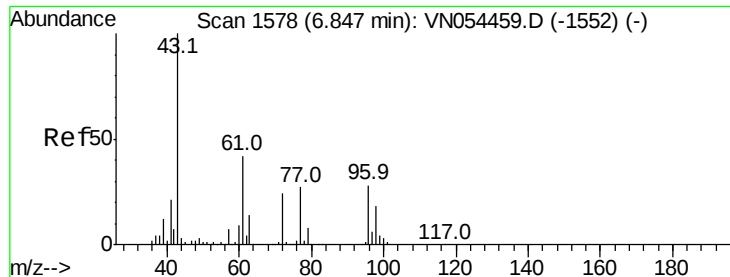


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 121.132 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleID :

VN0321WBSD02

Tot Ion: 43 Resp: 258403

Ion Ratio Lower Upper

43 100

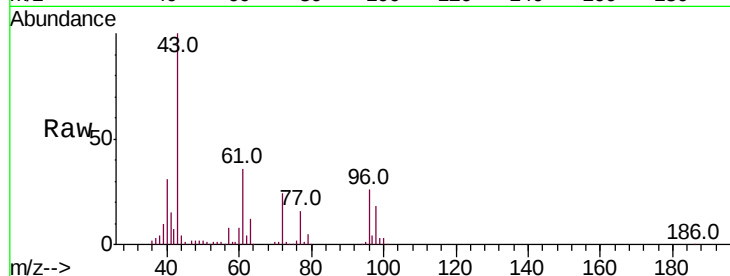
72 24.4 23.0 34.6

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.85

80000

60000

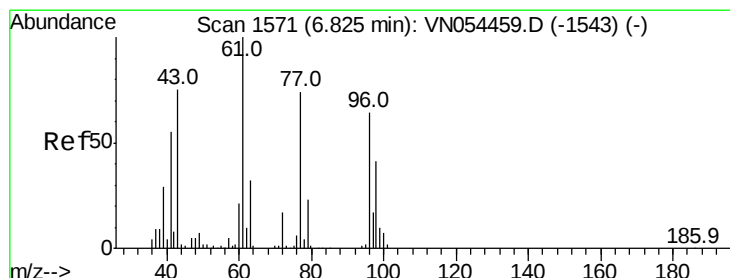
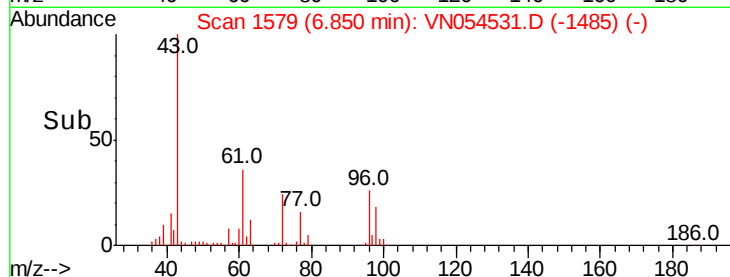
40000

20000

0

6.75 6.80 6.85 6.90

Time-->



#26

2,2-Dichloropropane

Concen: 16.088 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN054531.D

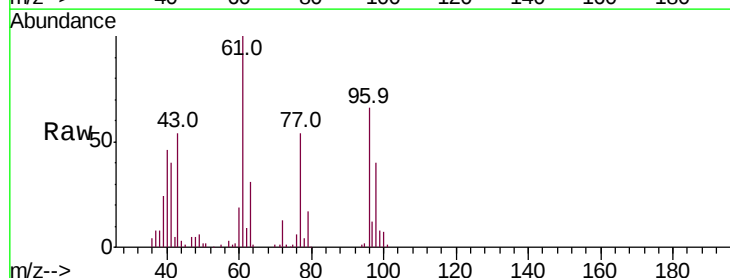
Acq: 22 Mar 2019 1:20

Tgt Ion: 77 Resp: 98510

Ion Ratio Lower Upper

77 100

97 12.4 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.82

30000

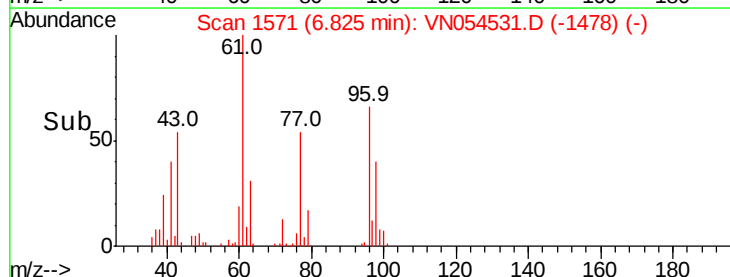
20000

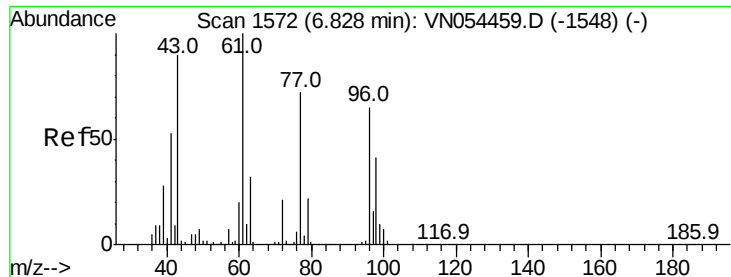
10000

0

6.70 6.80 6.90

Time-->





#27

cis-1,2-Dichloroethene

Concen: 22.778 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054531.D

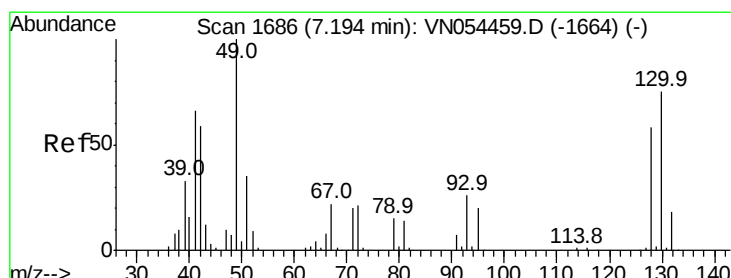
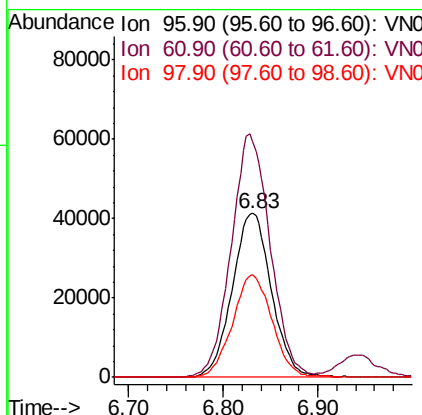
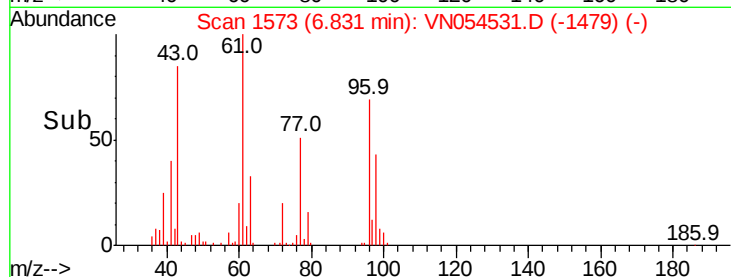
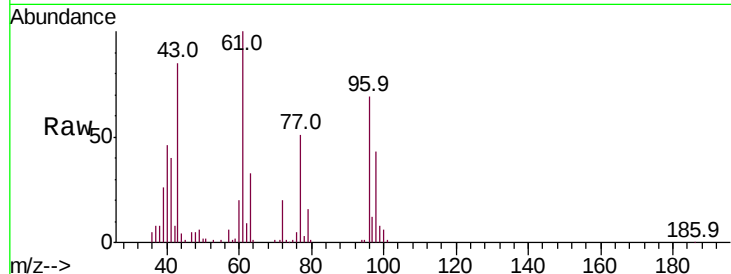
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	147.6	0.0	273.0	
98	62.7	0.0	130.6	

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#28

Bromochloromethane

Concen: 22.936 ug/l

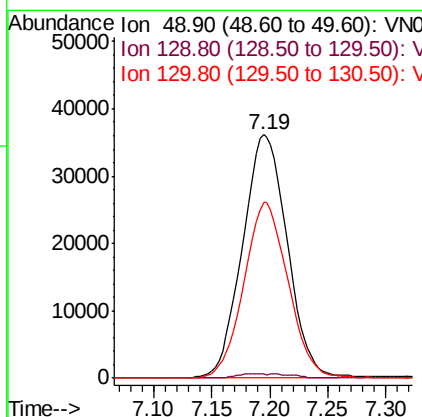
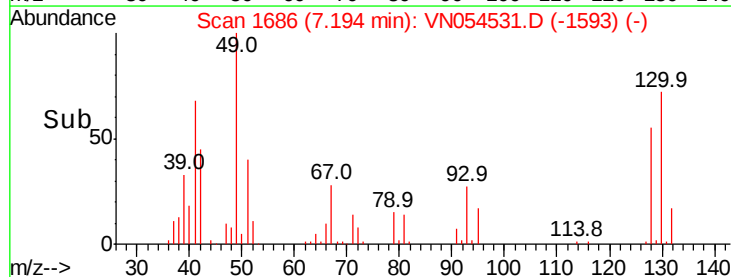
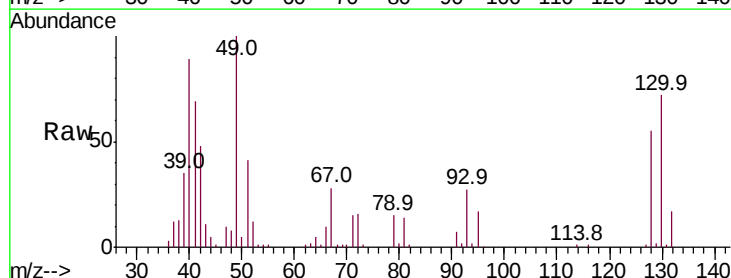
RT: 7.19 min Scan# 1686

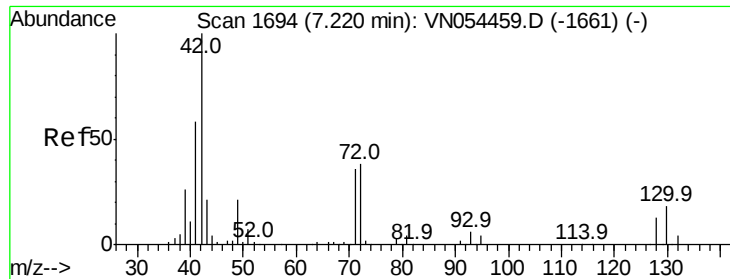
Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.1	0.0	4.6	
130	71.2	76.7	115.1#	





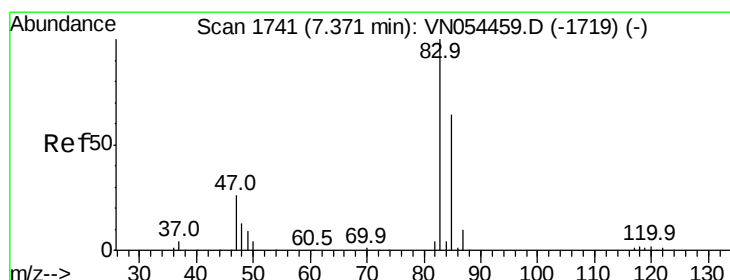
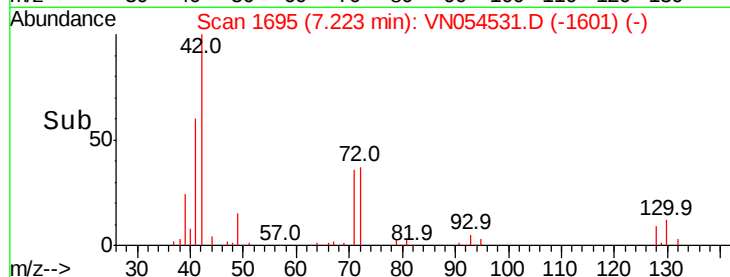
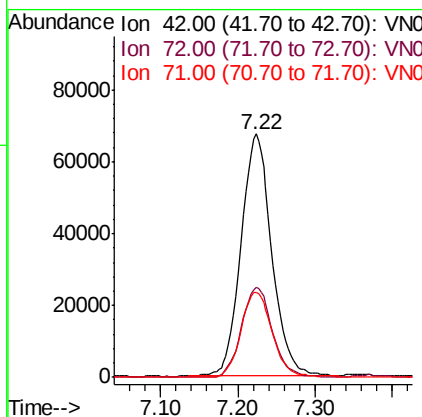
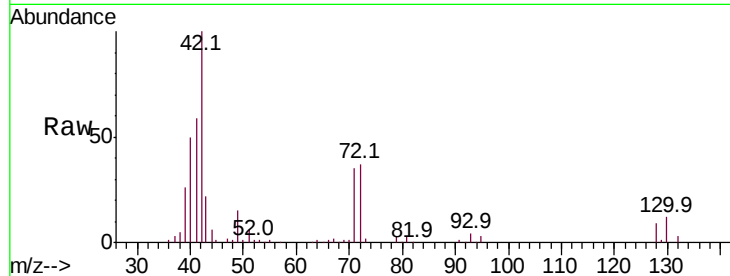
#29
Tetrahydrofuran
Concen: 134.964 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.4	37.8	56.6#
71	35.6	36.2	54.2#

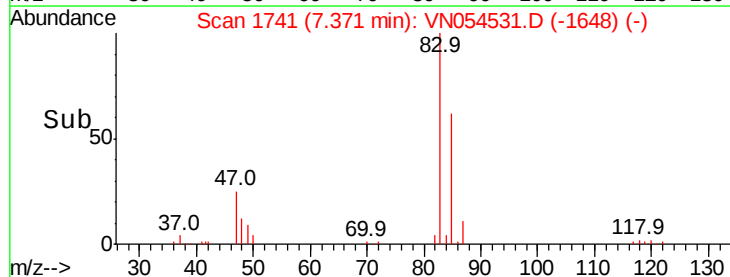
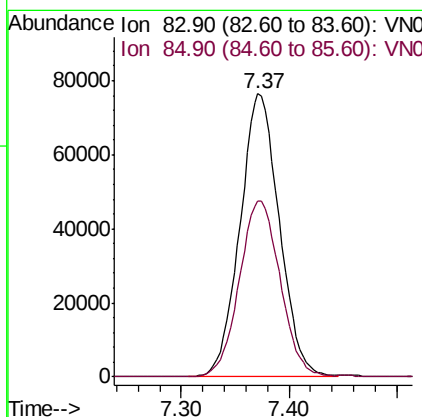
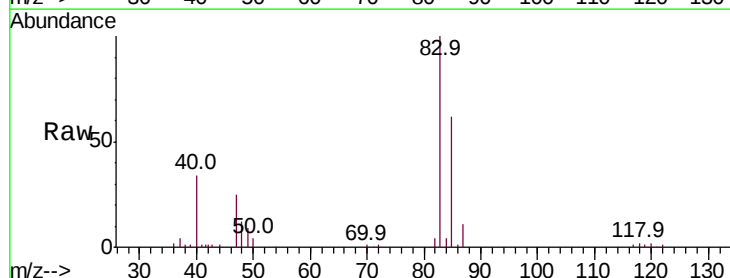
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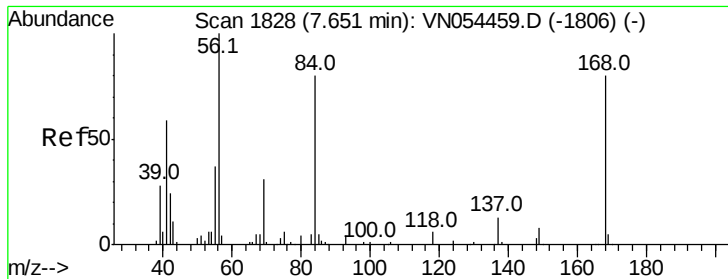
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#30
Chloroform
Concen: 23.151 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.0	52.2	78.4





#31

Cyclohexane

Concen: 22.257 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion: 56 Resp: 191682

Ion Ratio Lower Upper

56 100

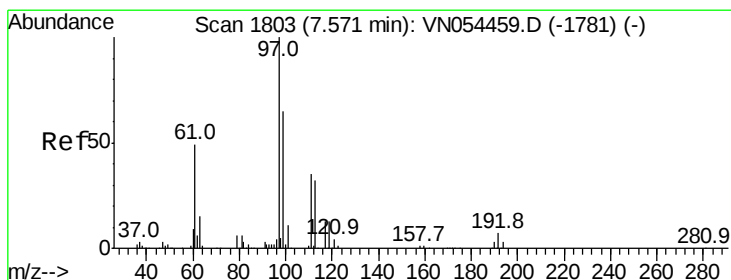
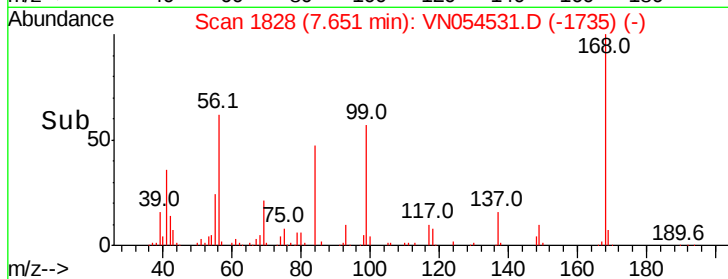
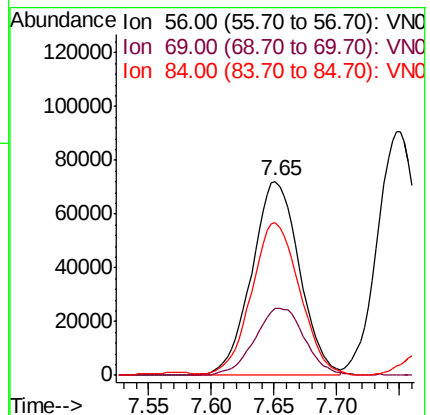
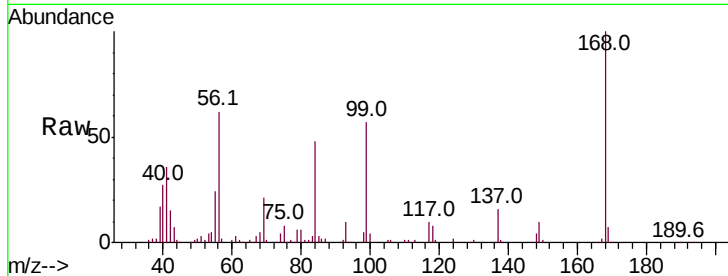
69 34.3 27.8 41.6

84 77.5 74.6 111.8

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#32

1,1,1-Trichloroethane

Concen: 23.072 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

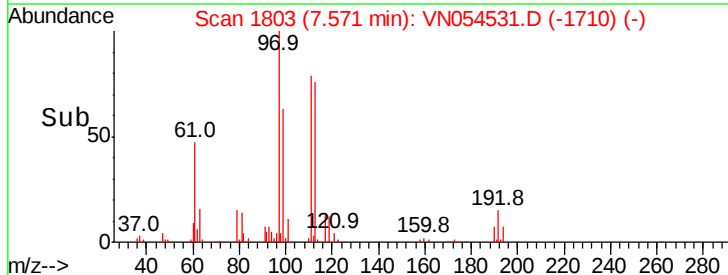
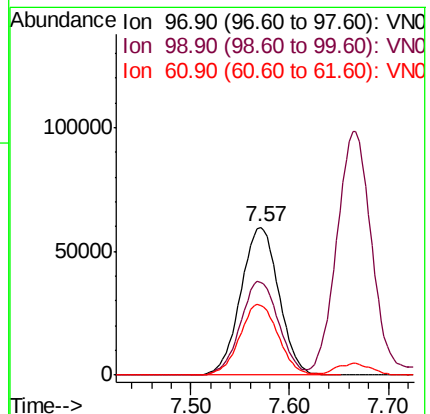
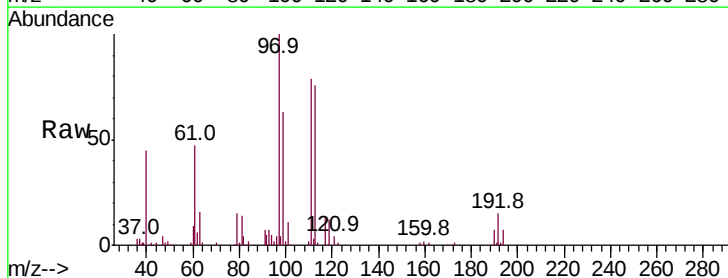
Tgt Ion: 97 Resp: 159566

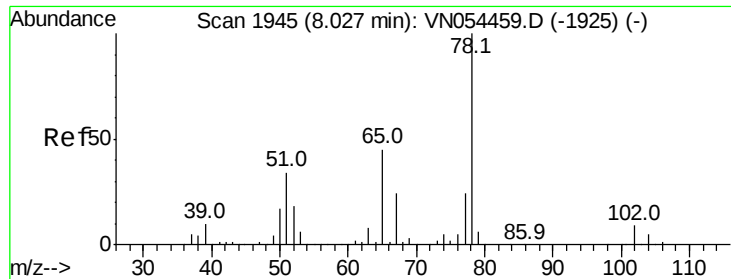
Ion Ratio Lower Upper

97 100

99 63.8 51.5 77.3

61 48.1 33.6 50.4





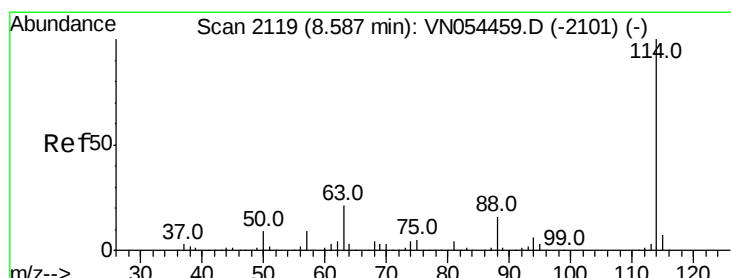
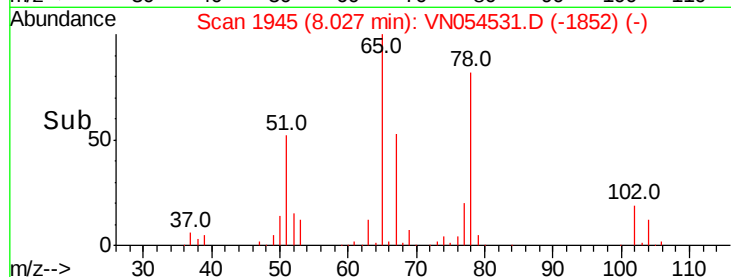
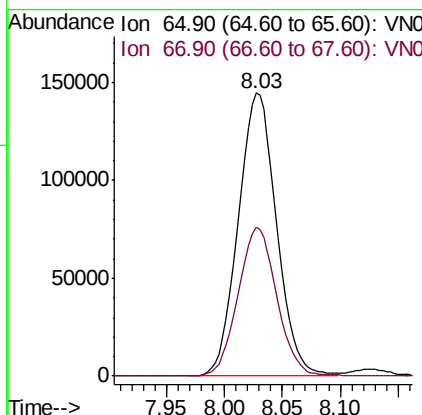
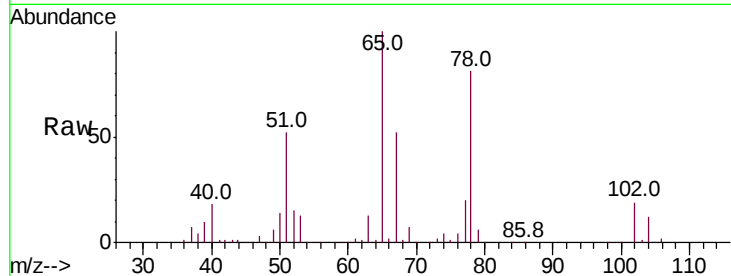
#33
 1,2-Dichloroethane-d4
 Concen: 60.024 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.1	0.0	104.6	

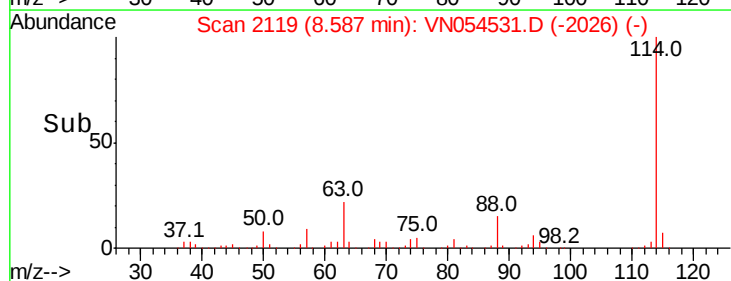
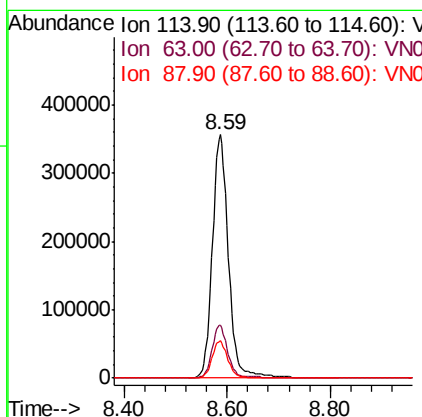
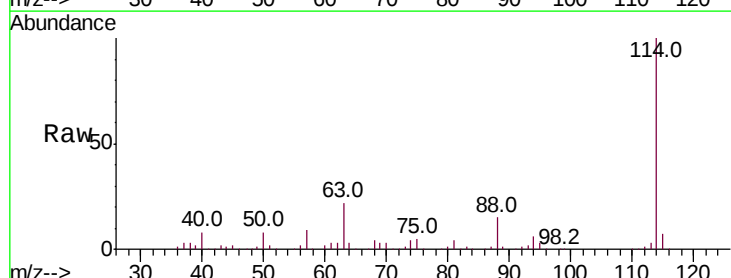
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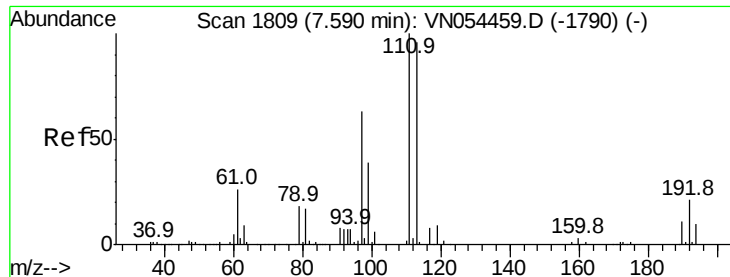
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	21.6	0.0	35.2	
88	15.2	0.0	30.2	





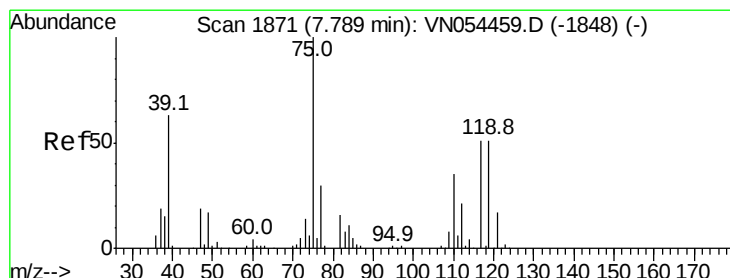
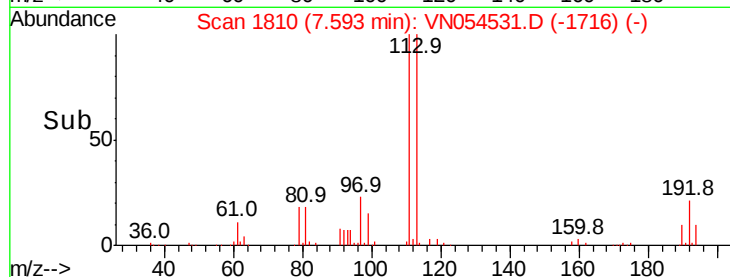
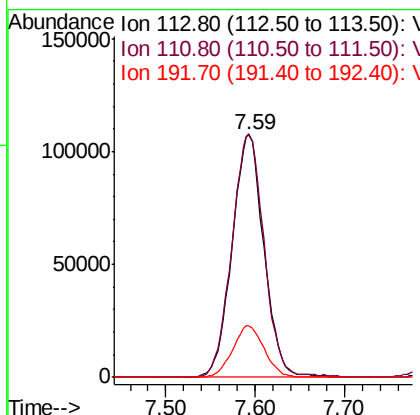
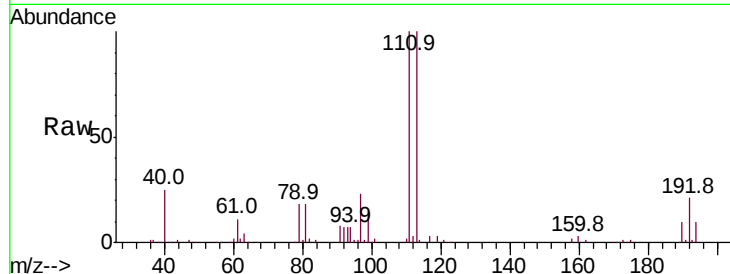
#35
Dibromofluoromethane
Concen: 53.102 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	264450		
111	101.7	82.2	123.4	
192	21.2	19.2	28.8	

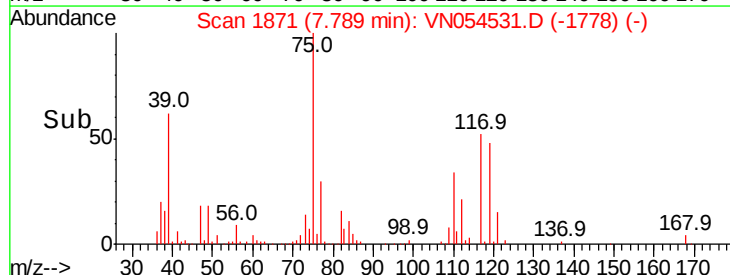
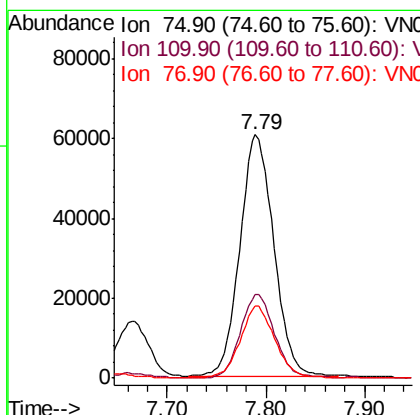
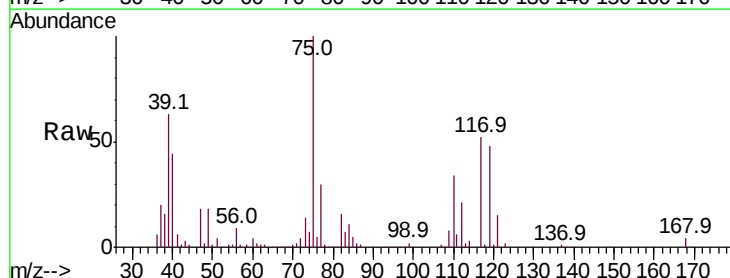
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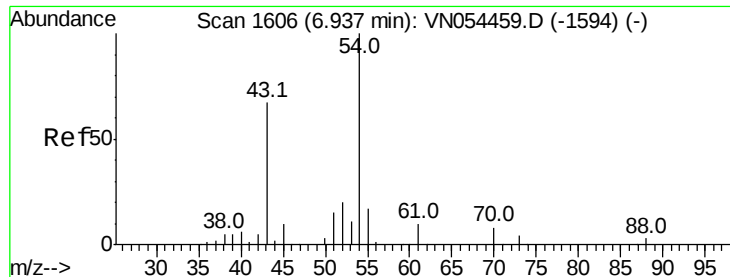
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#36
1,1-Dichloropropene
Concen: 20.049 ug/l
RT: 7.79 min Scan# 1871
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	144905		
110	34.7	19.1	57.5	
77	30.6	25.0	37.4	





#37

Ethyl Acetate

Concen: 23.630 ug/l

RT: 6.94 min Scan# 1607

Delta R.T. 0.00 min

Lab File: VN054531.D

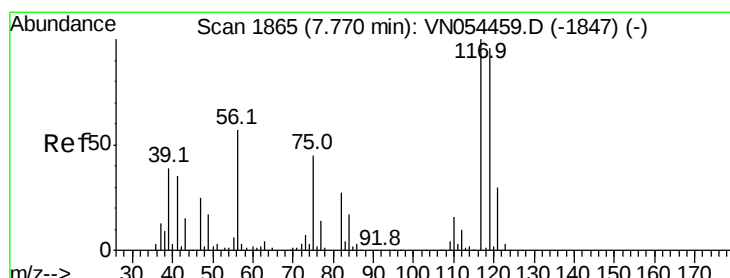
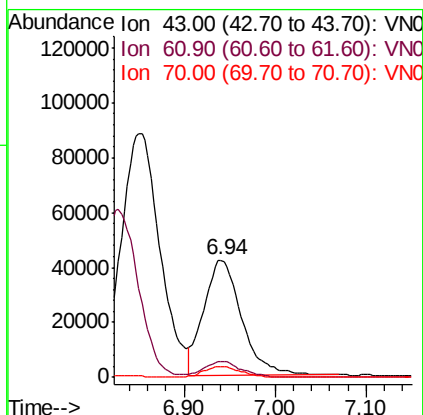
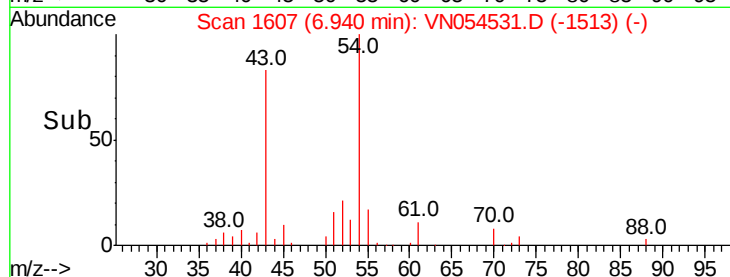
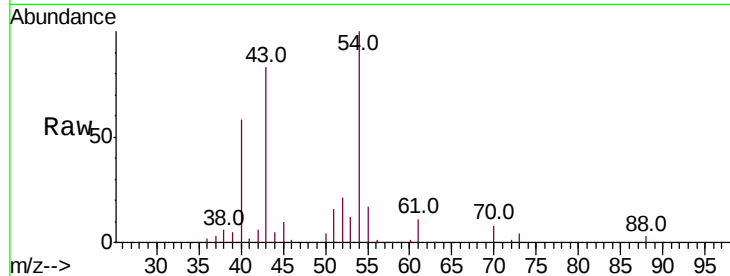
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.4	11.8	17.6
70	9.3	8.4	12.6

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 19.887 ug/l

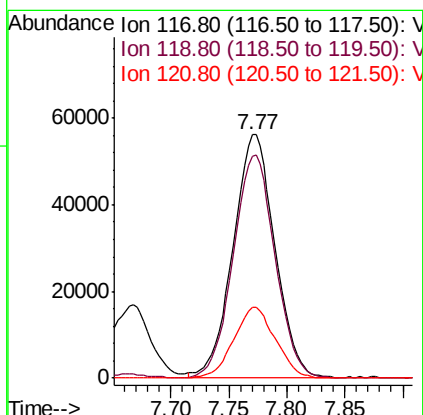
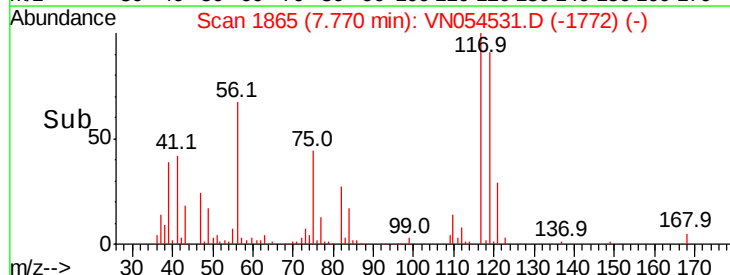
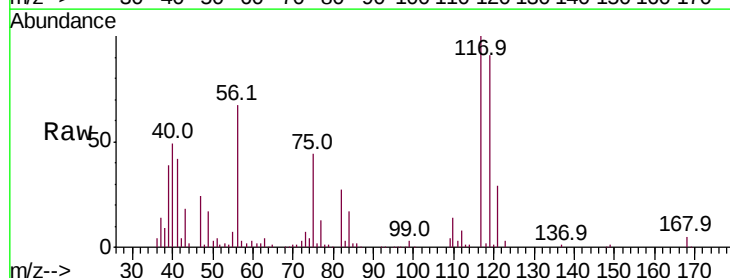
RT: 7.77 min Scan# 1865

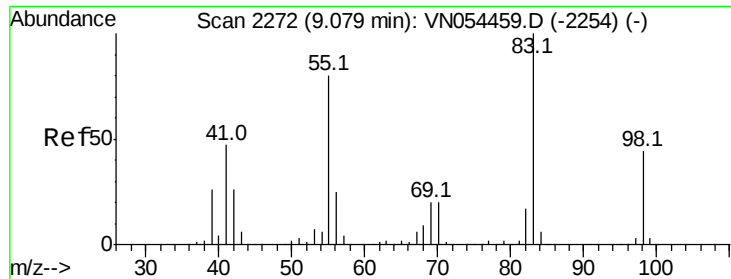
Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.6	76.3	114.5
121	29.0	24.6	36.8





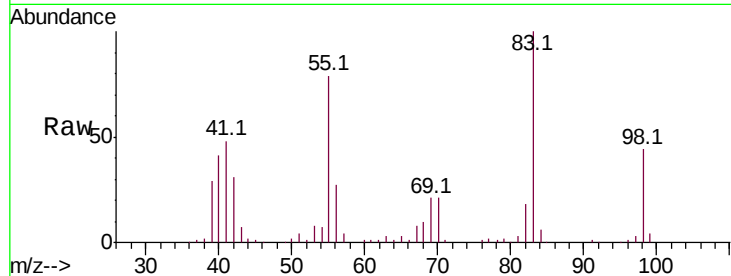
#39
Methvlcvclohexane
Concen: 18.892 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
83	100	156194		
55	79.3	56.6	84.8	
98	43.7	38.4	57.6	

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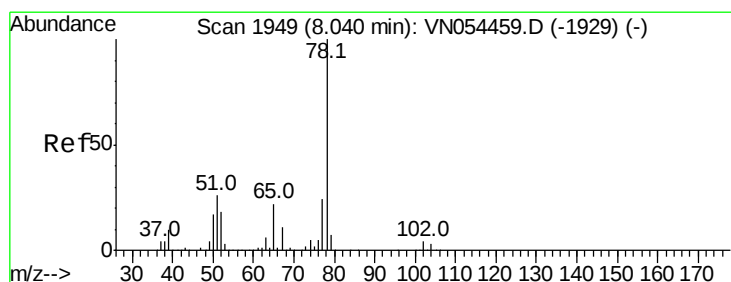
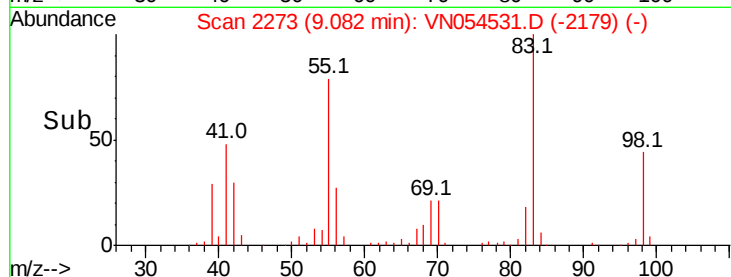
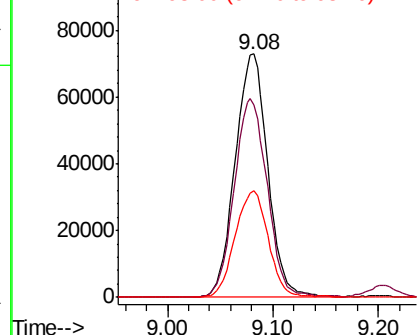


Abundance

Ion 83.00 (82.70 to 83.70): VN0

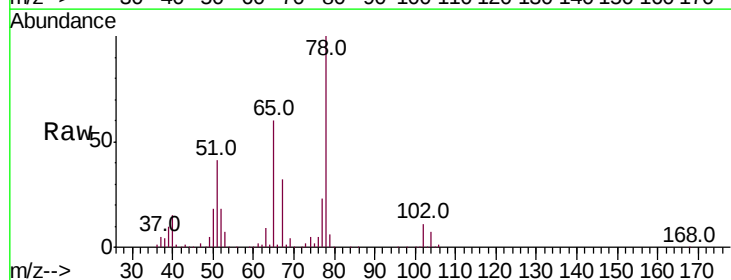
Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#40
Benzene
Concen: 20.815 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

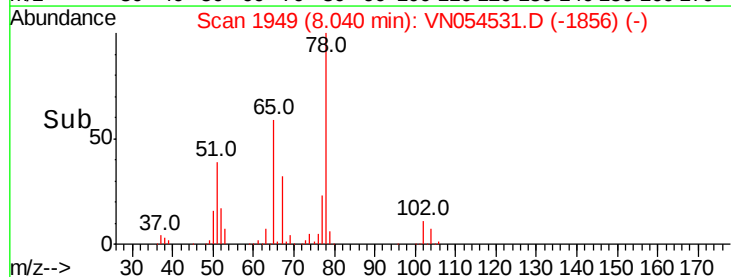
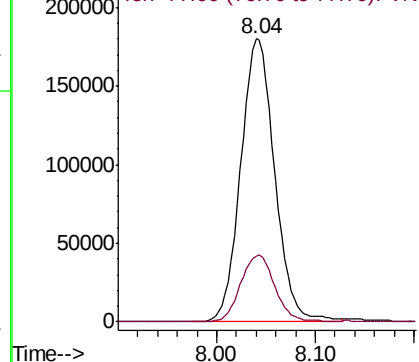
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	430205		
77	23.4	19.1	28.7	

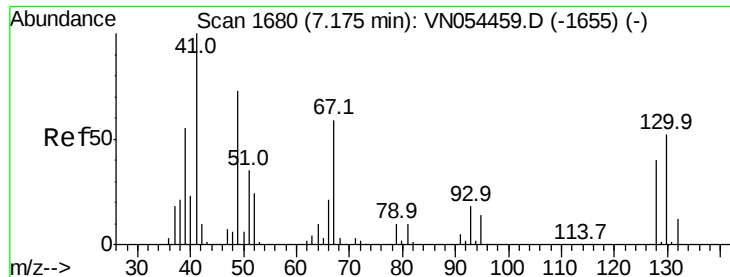


Abundance

Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





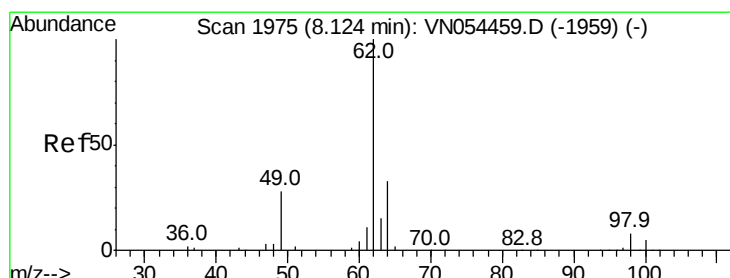
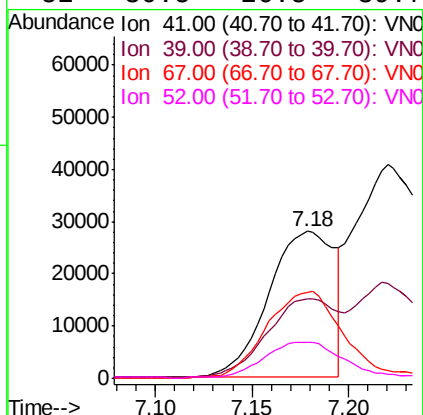
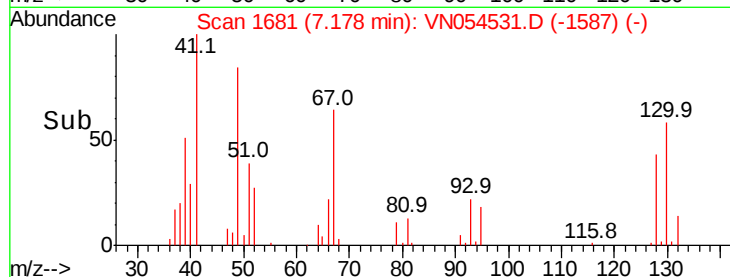
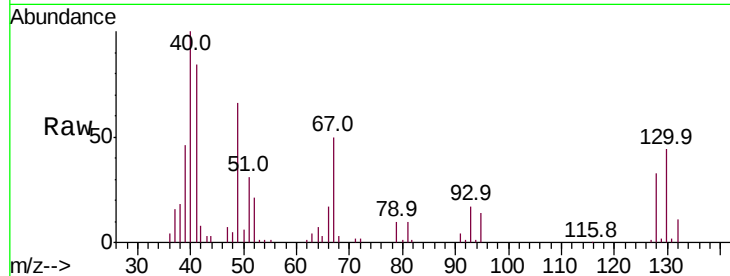
#41
Methacrylonitrile
Concen: 21.150 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	41	Resp	66306
Ion	Ratio	Lower	Upper
41	100		
39	57.4	46.8	70.2
67	70.2	67.0	100.4
52	30.5	26.5	39.7

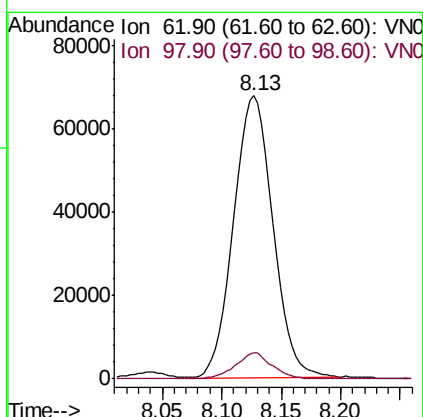
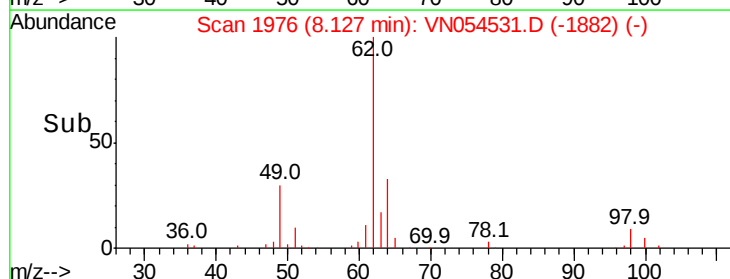
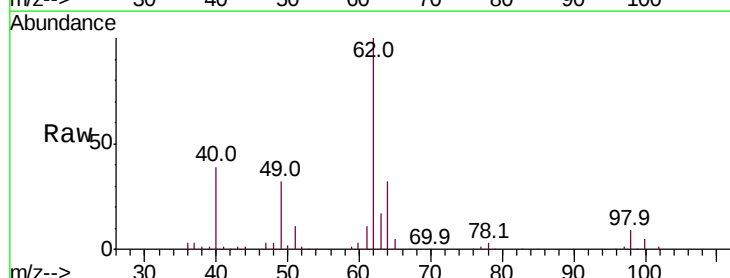
Manual Integrations
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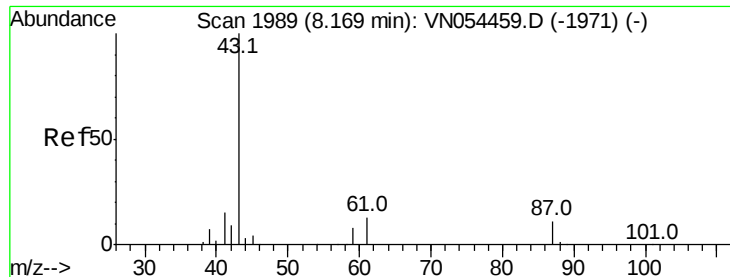
MMDadoda
3/22/2019 4:16:46 PM



#42
1,2-Dichloroethane
Concen: 20.705 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion	62	Resp	155846
Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	18.4





#43

Isopropyl Acetate

Concen: 22.669 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

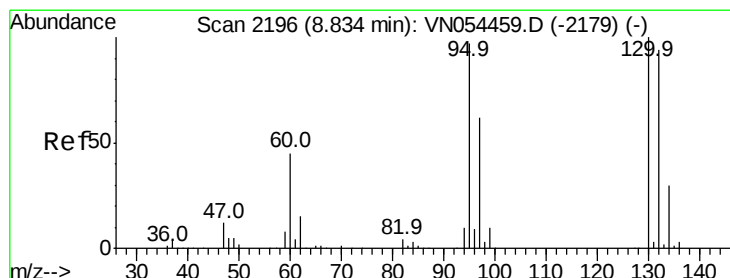
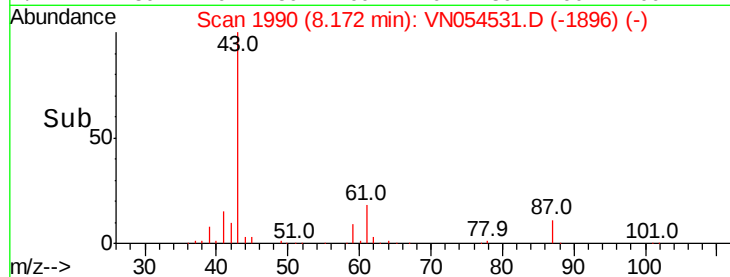
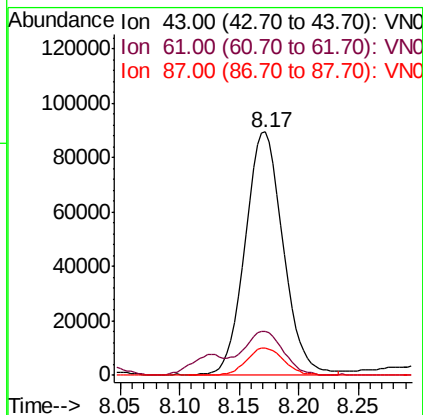
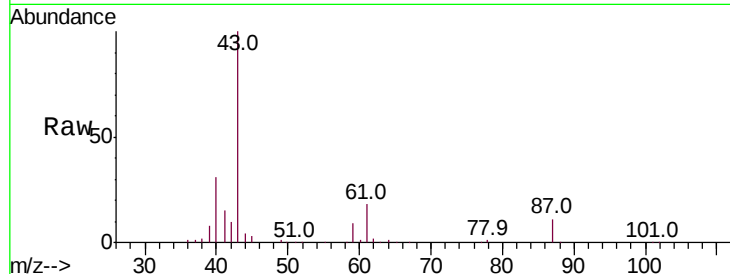
ClientSampleId :

VN0321WBSD02

Tot Ion:	43	Resp:	196801
Ion Ratio	Lower	Upper	
43	100		
61	18.9	15.8	23.8
87	11.2	12.0	18.0

Manual Integrations
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MMDadoda
3/22/2019 4:16:46 PM



#44

Trichloroethene

Concen: 19.870 ug/l

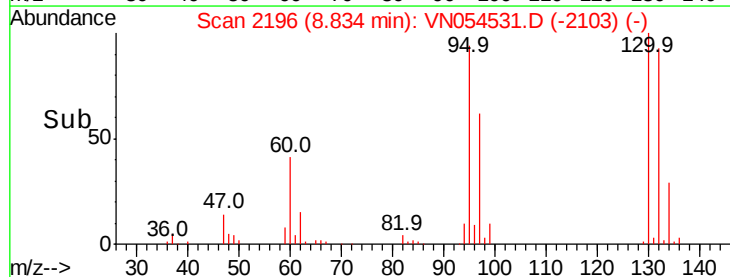
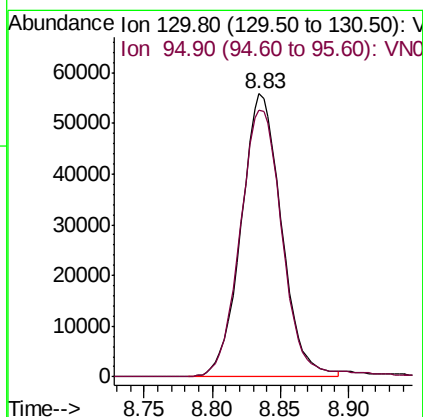
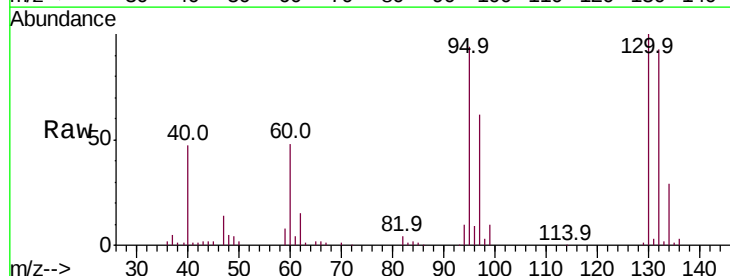
RT: 8.83 min Scan# 2196

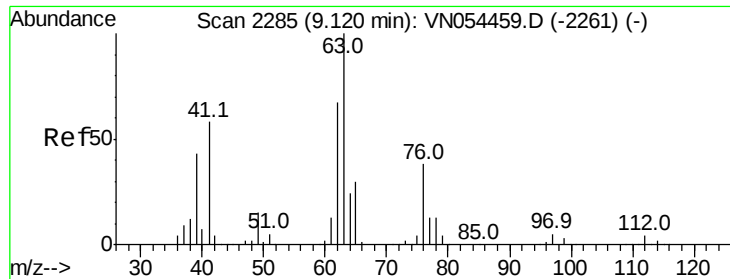
Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion:	130	Resp:	114173
Ion Ratio	Lower	Upper	
130	100		
95	94.4	0.0	185.2





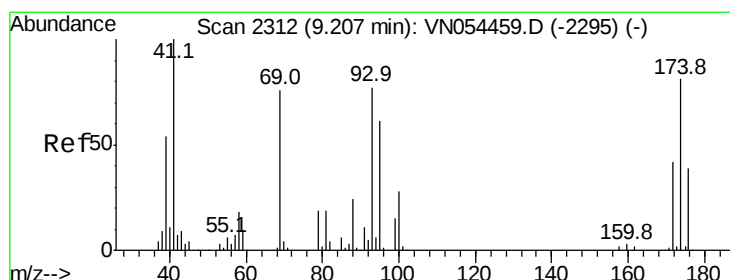
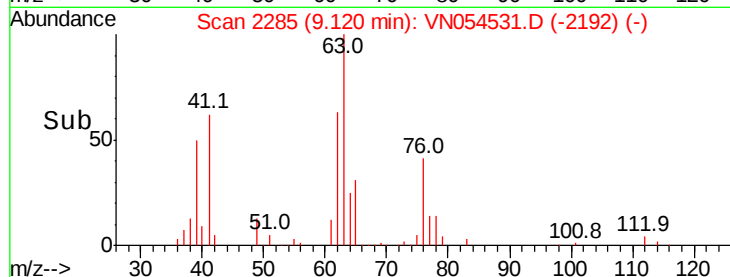
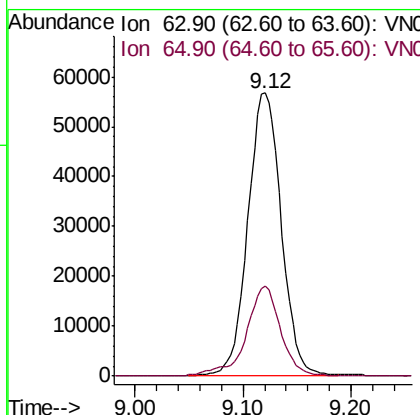
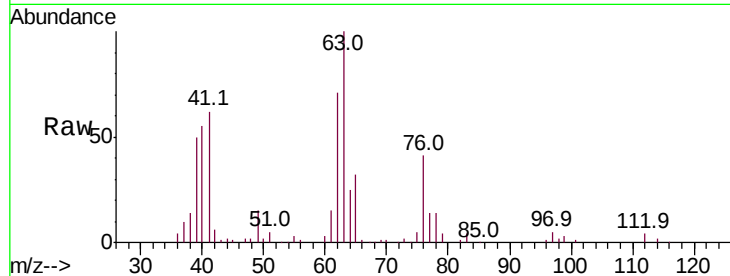
#45
 1,2-Dichloropropane
 Concen: 22.055 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBSD02

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.8	25.0	37.6

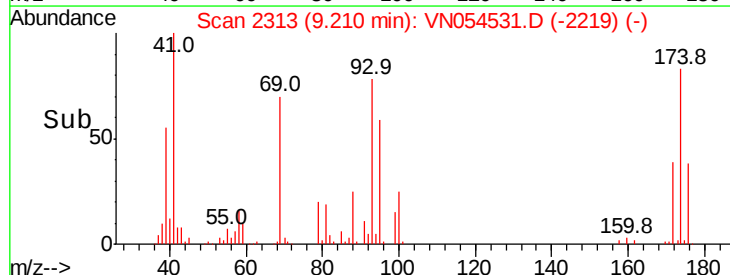
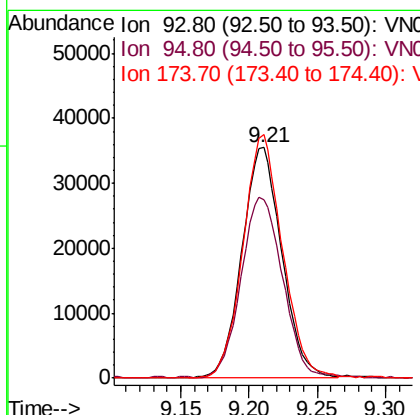
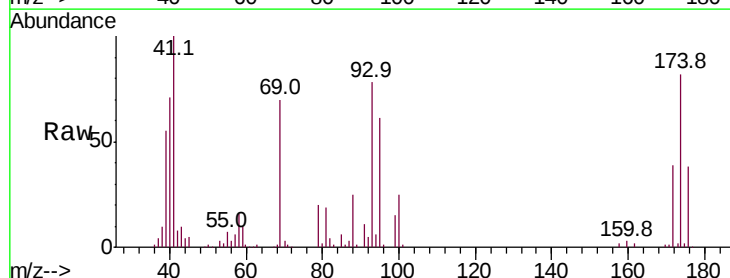
Manual Integrations
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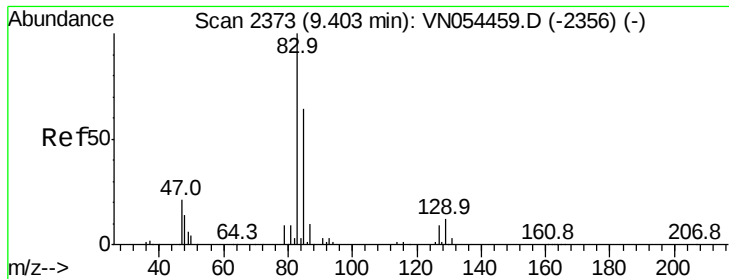
MMDadoda
 3/22/2019 4:16:46 PM



#46
 Dibromomethane
 Concen: 21.842 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
93	100		
95	81.8	66.7	100.1
174	104.1	98.5	147.7





#47

Bromodichloromethane

Concen: 20.602 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

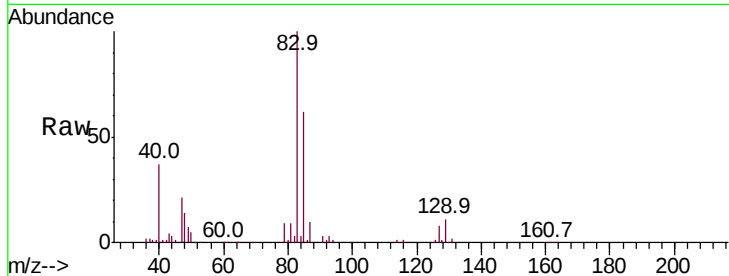
ClientSampleId :

VN0321WBSD02

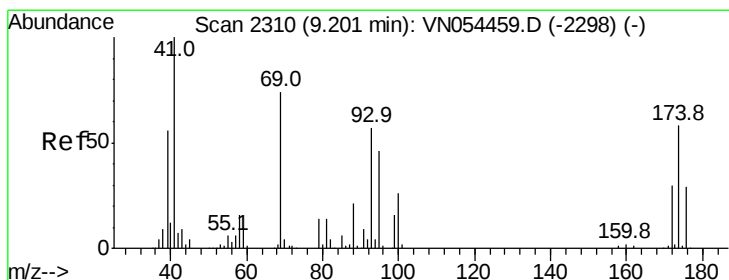
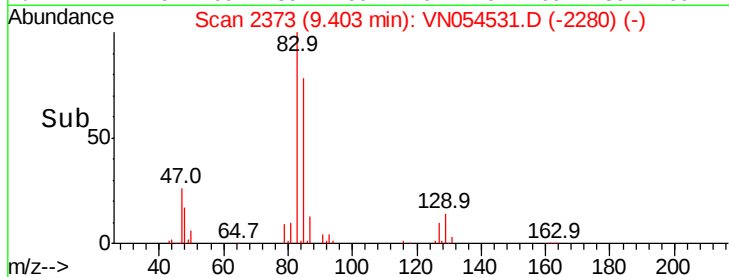
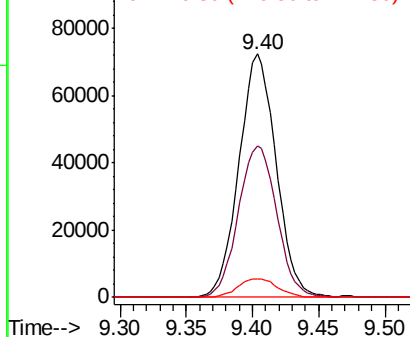
Tot Ion:	83	Resp:	141562
Ion Ratio	Lower	Upper	
83	100		
85	62.1	52.8	79.2
127	7.8	7.4	11.2

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 22.086 ug/l

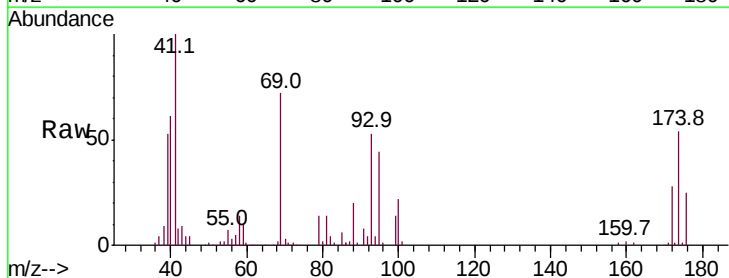
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

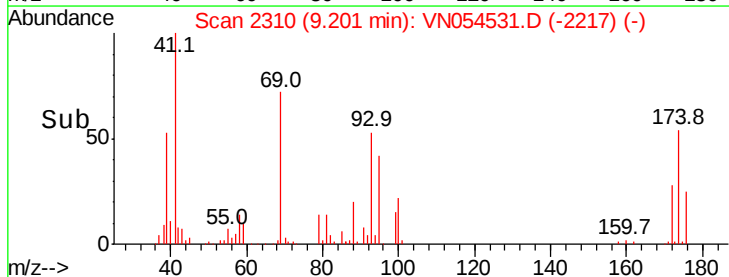
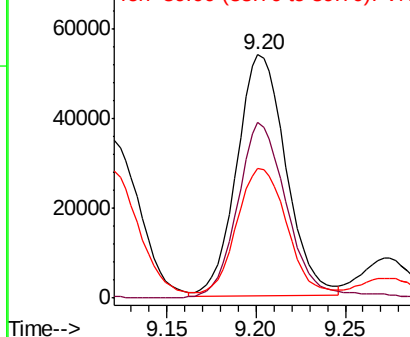
Lab File: VN054531.D

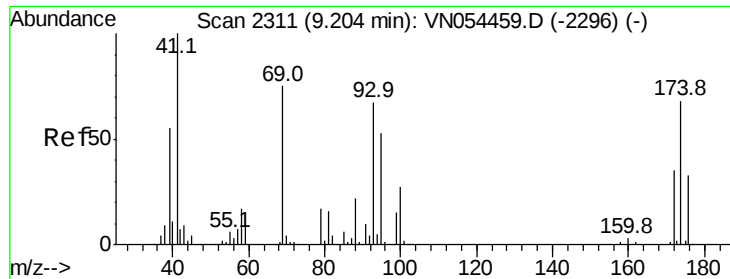
Acq: 22 Mar 2019 1:20

Tgt Ion:	41	Resp:	104069
Ion Ratio	Lower	Upper	
41	100		
69	73.7	72.6	108.8
39	55.1	47.5	71.3



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





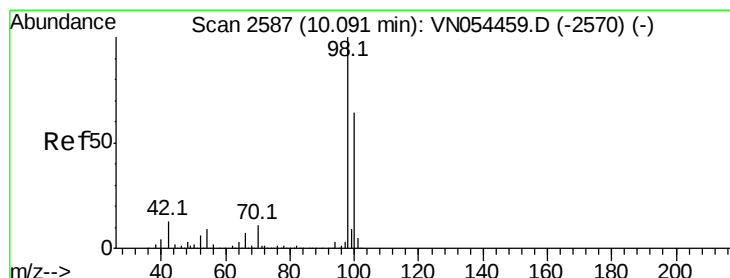
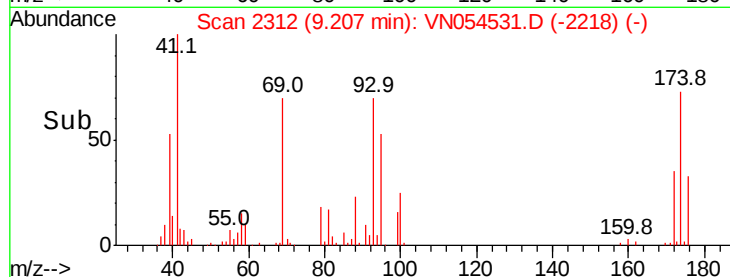
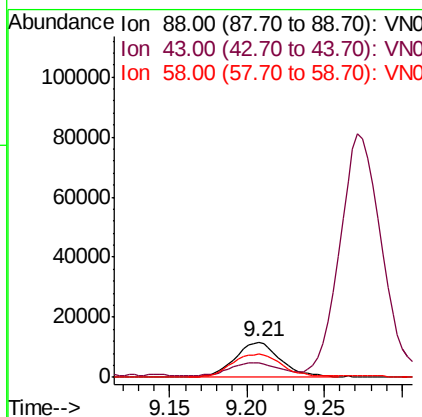
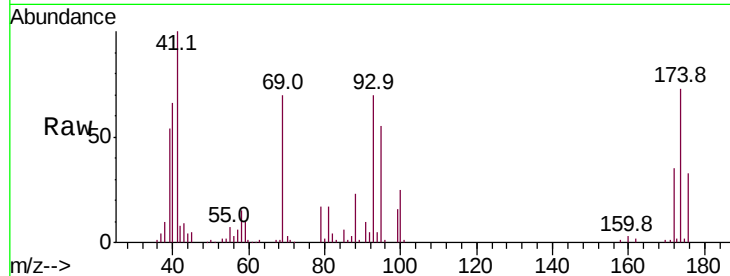
#49
1,4-Dioxane
Concen: 456.447 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	88	Resp	24045
Ion Ratio	Lower	Upper	
88	100		
43	36.0	24.1	36.1
58	72.8	50.8	76.2

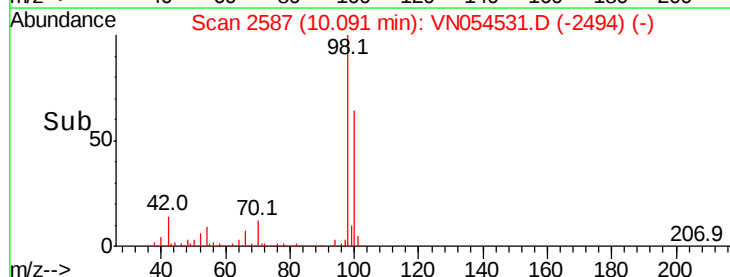
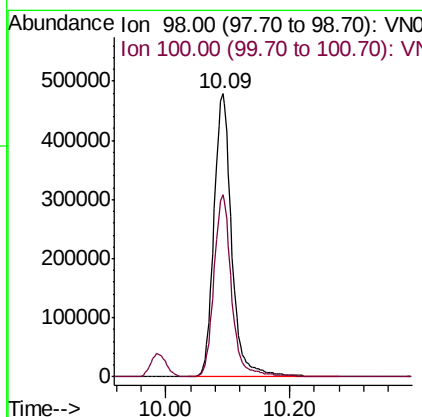
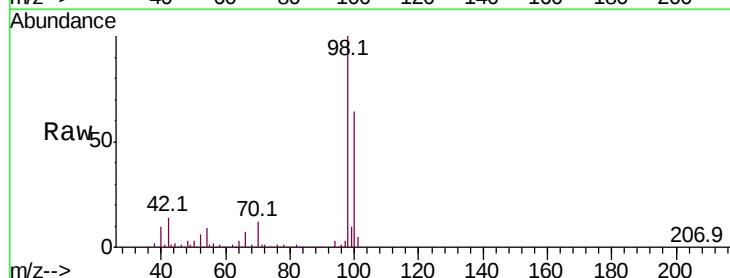
Manual Integrations
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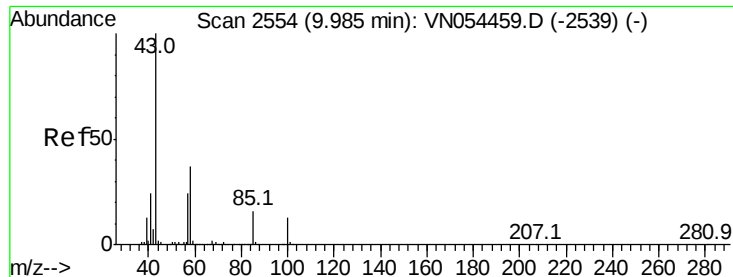
MMDadoda
3/22/2019 4:16:46 PM



#50
Toluene-d8
Concen: 51.124 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion	98	Resp	957156
Ion Ratio	Lower	Upper	
98	100		
100	63.6	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 117.082 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion: 43 Resp: 563334

Ion Ratio Lower Upper

43 100

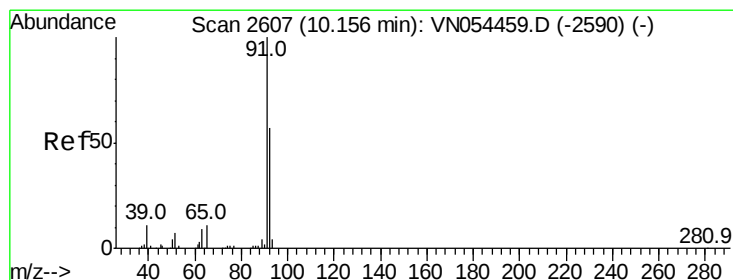
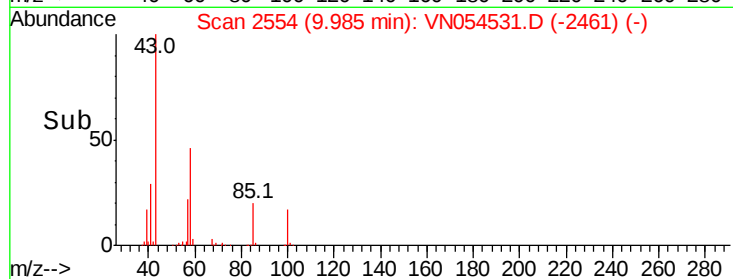
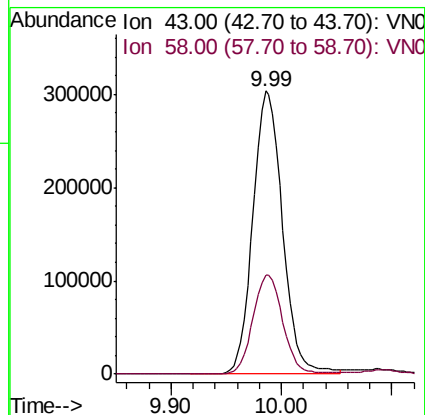
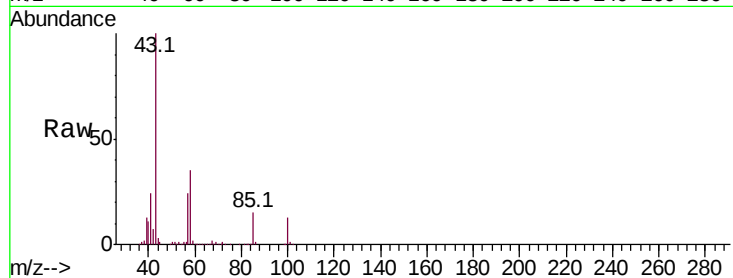
58 35.4 31.8 47.6

Manual Integrations

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#52

Toluene

Concen: 20.242 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054531.D

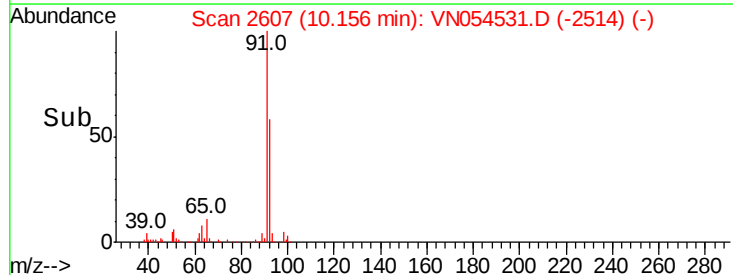
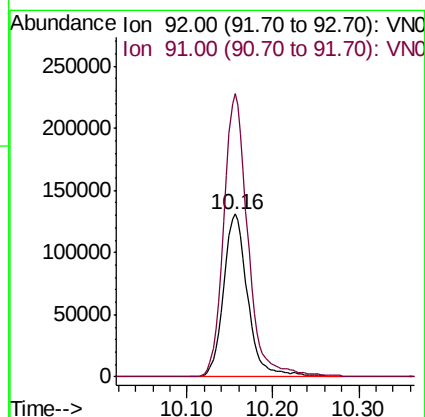
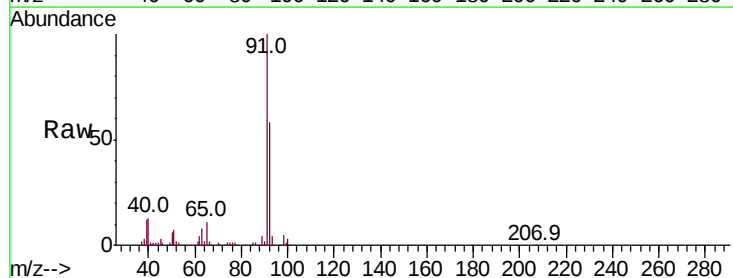
Acq: 22 Mar 2019 1:20

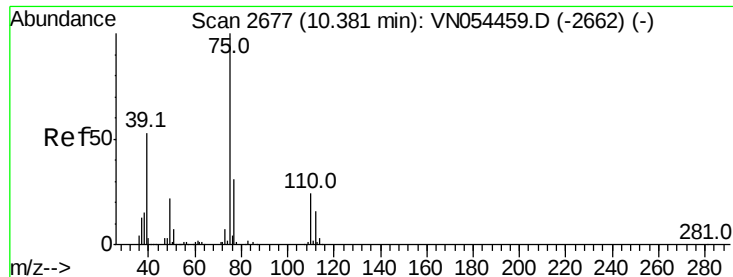
Tgt Ion: 92 Resp: 257310

Ion Ratio Lower Upper

92 100

91 173.9 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 18.423 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion: 75 Resp: 122841

Ion Ratio Lower Upper

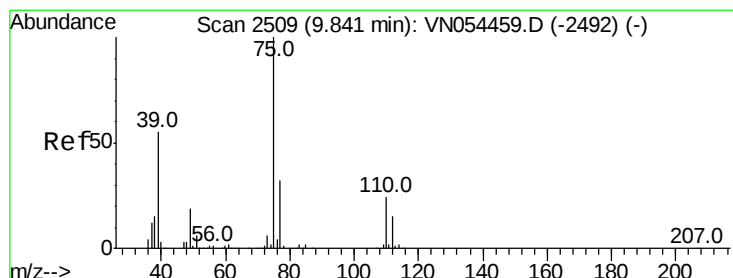
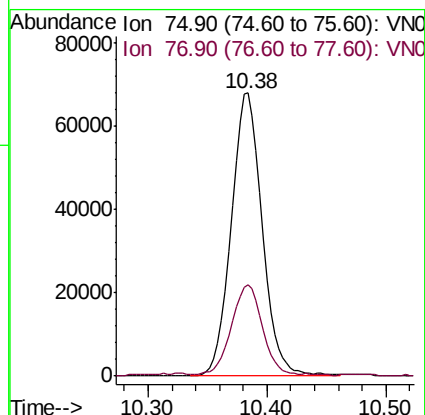
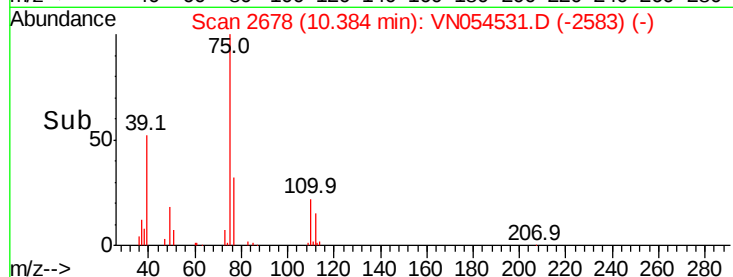
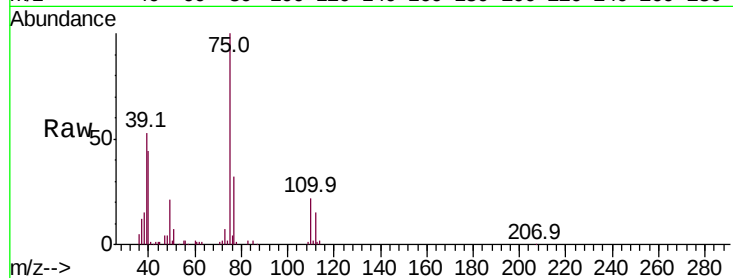
75 100

77 31.8 25.8 38.8

Manual Integrations
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#54

cis-1,3-Dichloropropene

Concen: 19.728 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

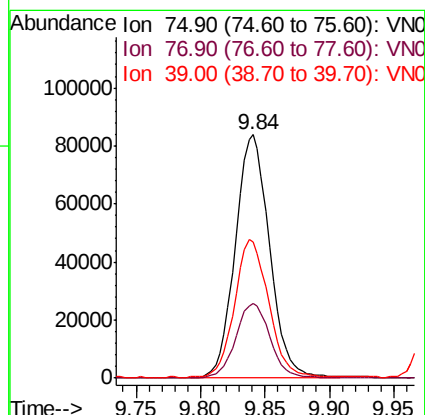
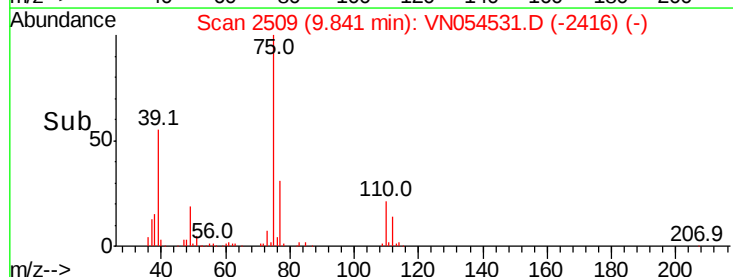
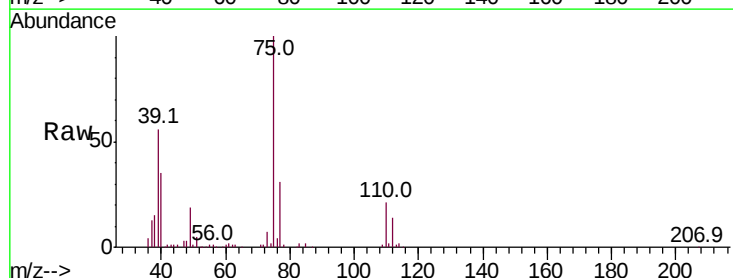
Tgt Ion: 75 Resp: 155426

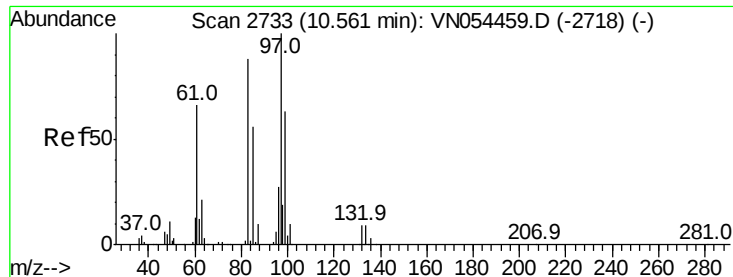
Ion Ratio Lower Upper

75 100

77 30.7 25.4 38.0

39 55.4 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 21.358 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

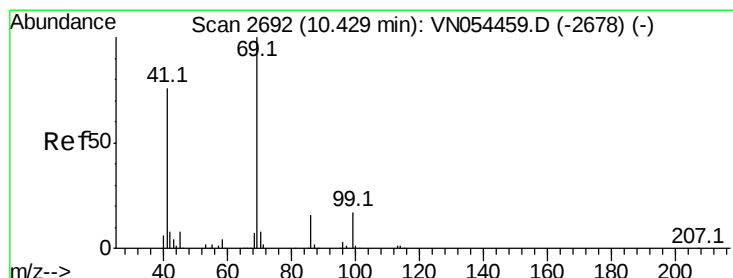
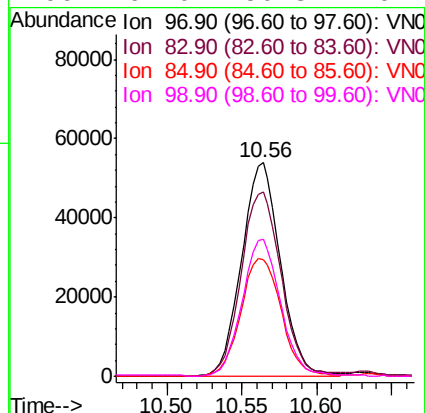
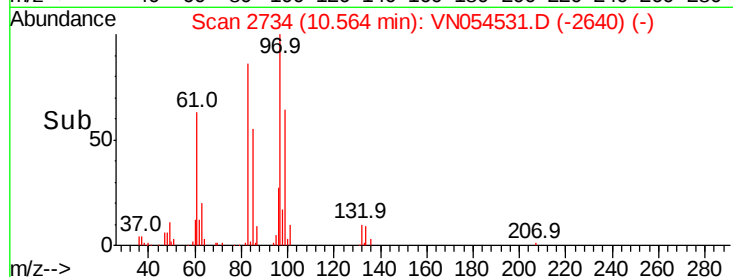
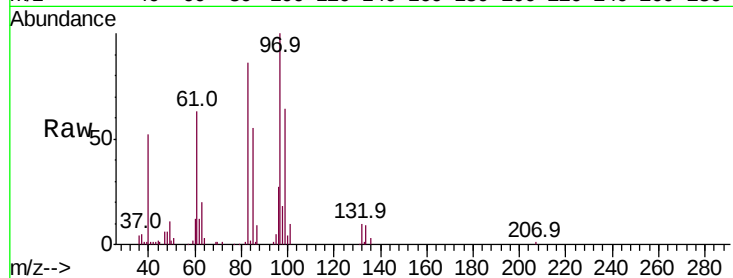
ClientSampleId :

VN0321WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		97595		
83	86.3	66.6	100.0		
85	54.8	44.4	66.6		
99	64.0	50.8	76.2		

Manual Integrations
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#56

Ethyl methacrylate

Concen: 21.378 ug/l

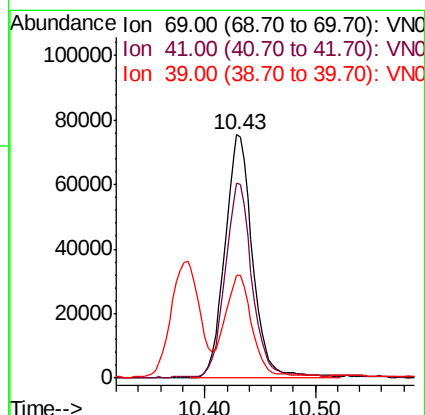
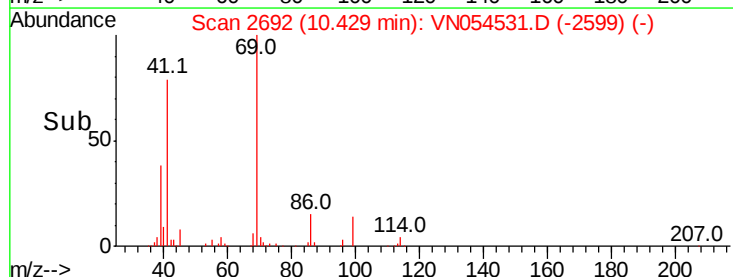
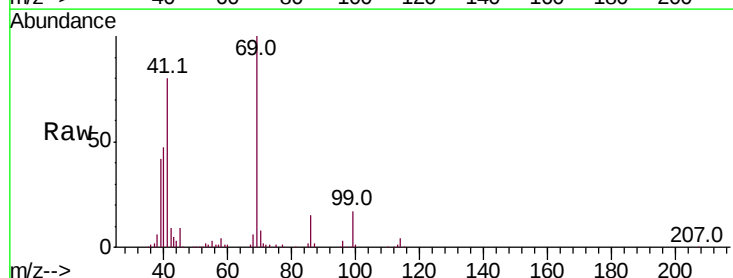
RT: 10.43 min Scan# 2692

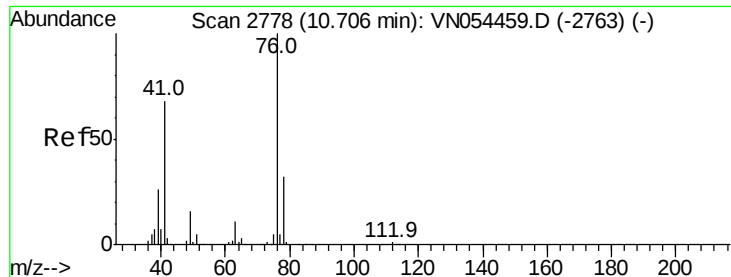
Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		131115		
41	76.5	49.4	74.2#		
39	41.3	28.3	42.5		





#57

1,3-Dichloropropane

Concen: 21.427 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampled :

VN0321WBSD02

Tot Ion: 76 Resp: 170199

Ion Ratio Lower Upper

76 100

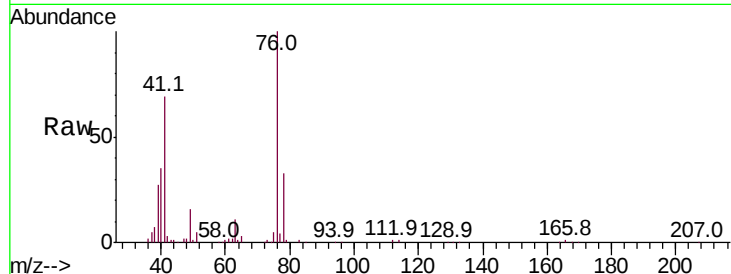
78 33.0 25.7 38.5

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

100000

80000

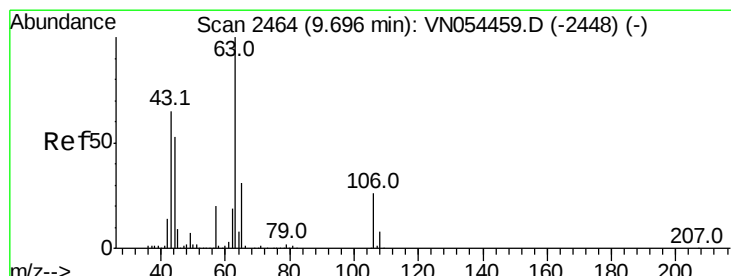
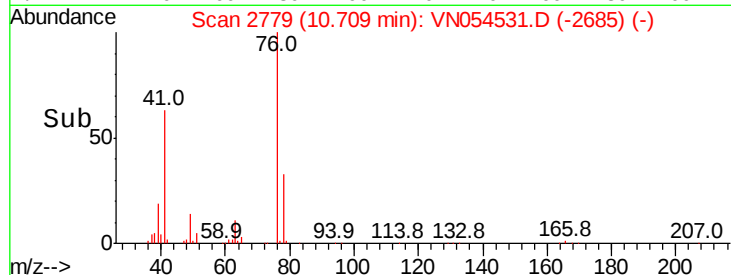
60000

40000

20000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 104.741 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054531.D

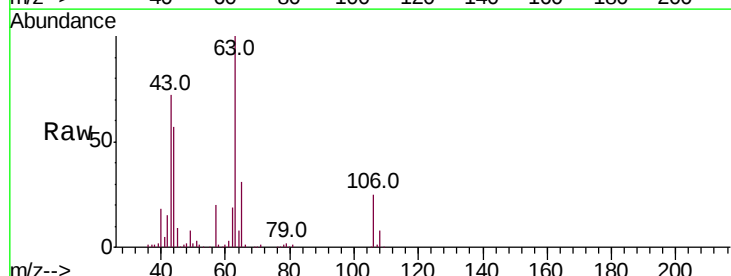
Acq: 22 Mar 2019 1:20

Tgt Ion: 63 Resp: 264519

Ion Ratio Lower Upper

63 100

106 25.3 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

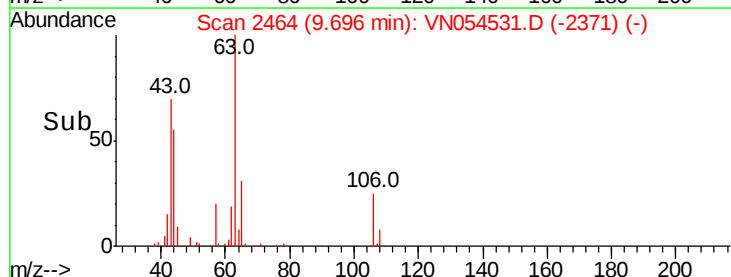
150000

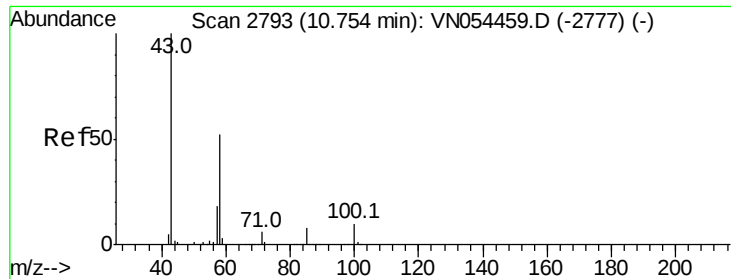
100000

50000

0

Time-->





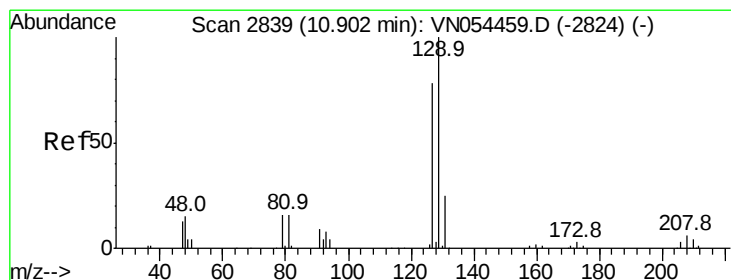
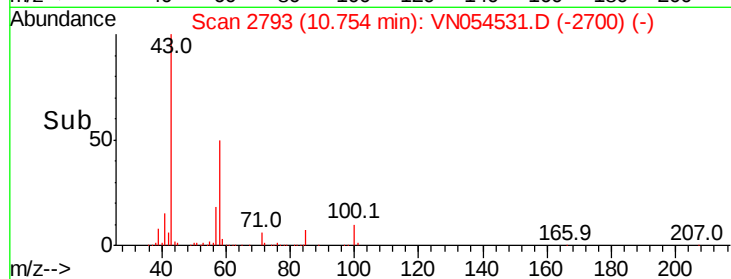
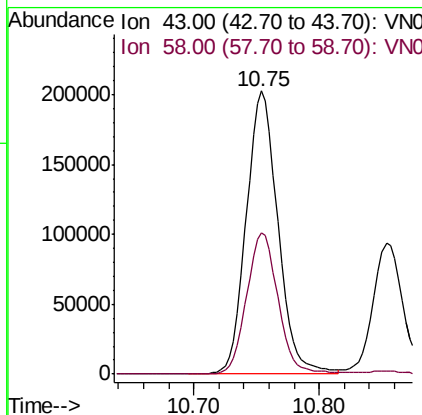
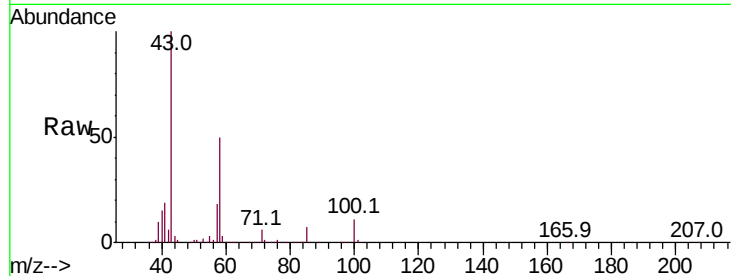
#59
2-Hexanone
Concen: 112.666 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion: 43 Resp: 354082
Ion Ratio Lower Upper
43 100
58 50.1 28.0 83.9

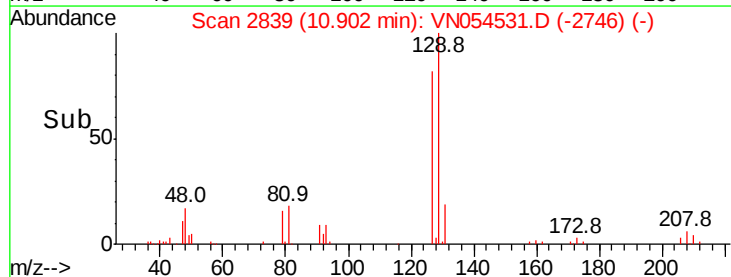
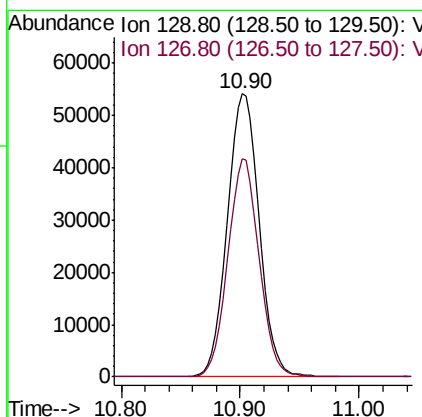
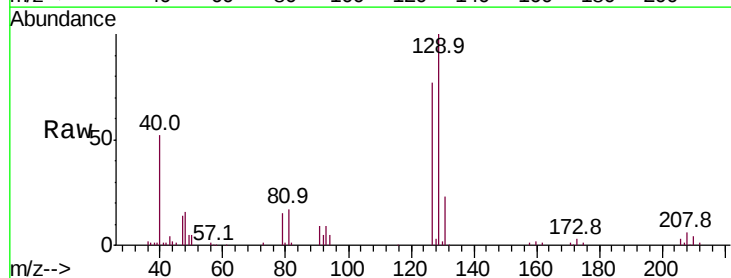
Manual Integrations
APPROVED

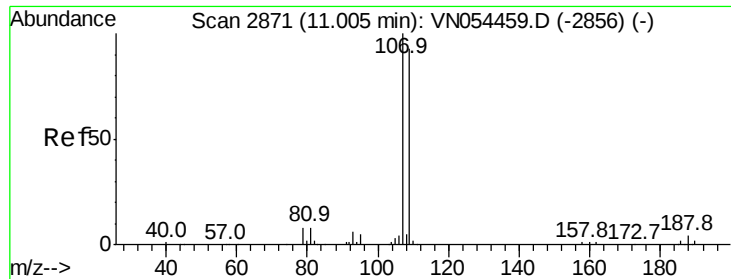
MMDadoda
3/22/2019 4:16:46 PM



#60
Dibromochloromethane
Concen: 20.660 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion: 129 Resp: 100454
Ion Ratio Lower Upper
129 100
127 75.5 38.6 115.8





#61

1,2-Dibromoethane

Concen: 20.597 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion:107 Resp: 93047

Ion Ratio Lower Upper

107 100

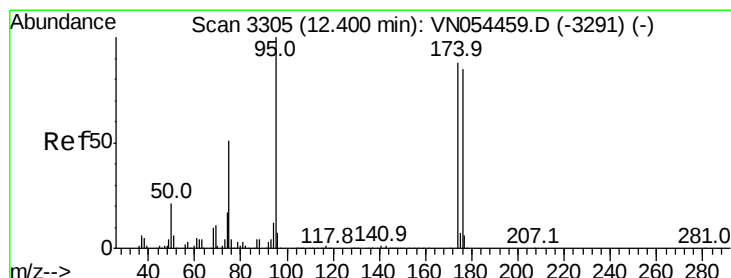
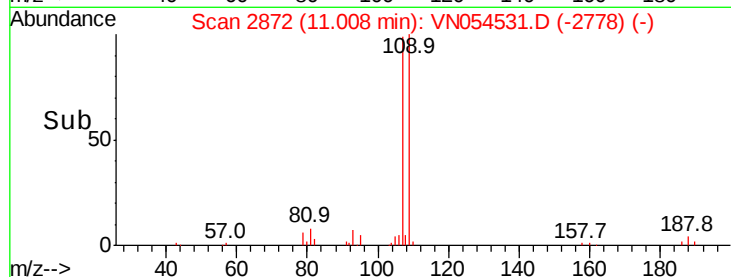
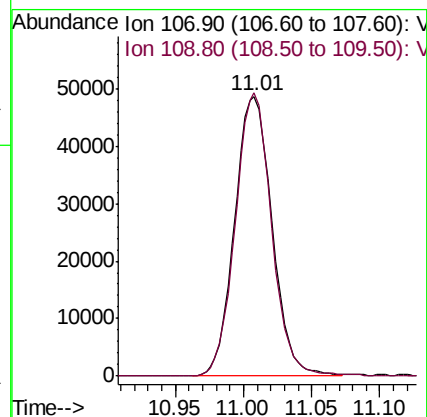
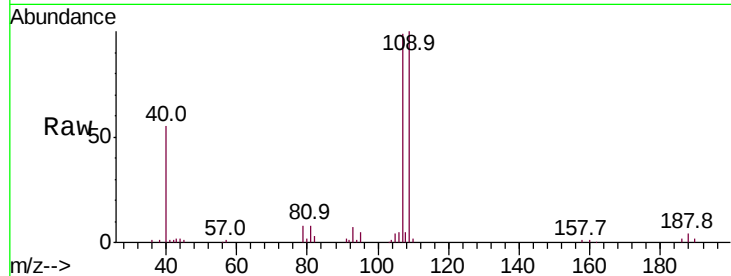
109 98.0 75.9 113.9

Manual Integrations

APPROVED

MMDadoda

3/22/2019 4:16:46 PM



#62

4-Bromofluorobenzene

Concen: 48.699 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

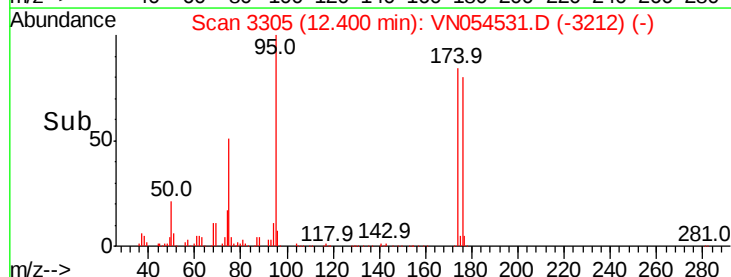
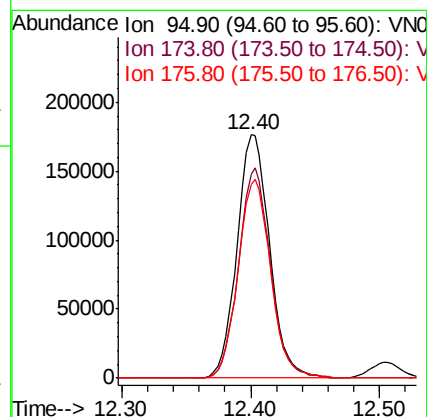
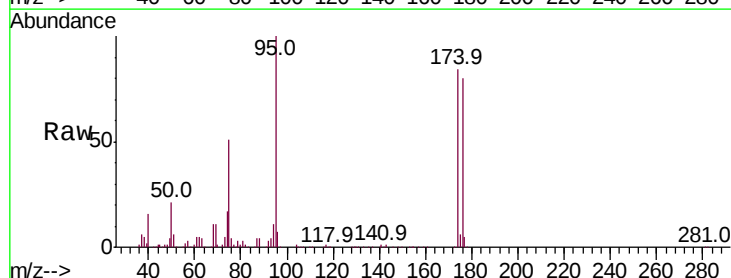
Tgt Ion: 95 Resp: 310250

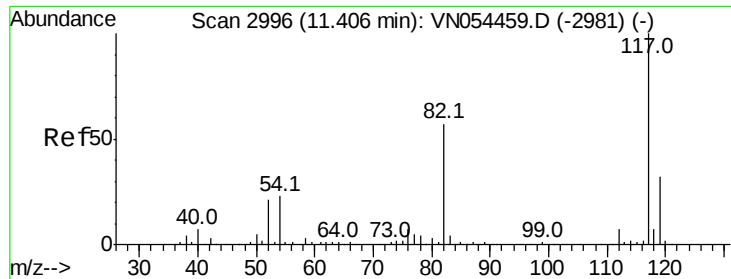
Ion Ratio Lower Upper

95 100

174 84.4 0.0 191.0

176 81.5 0.0 187.4





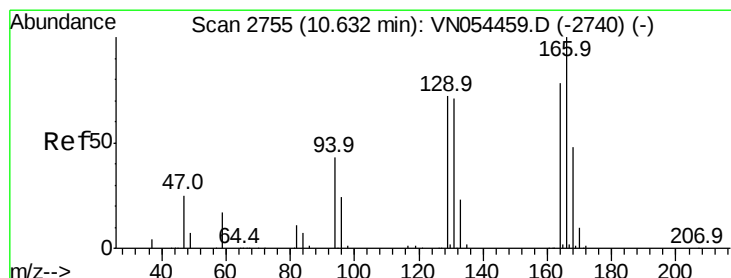
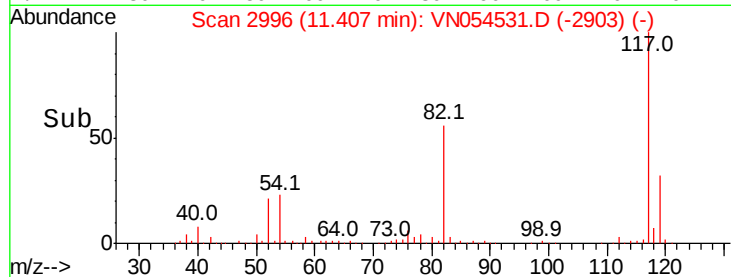
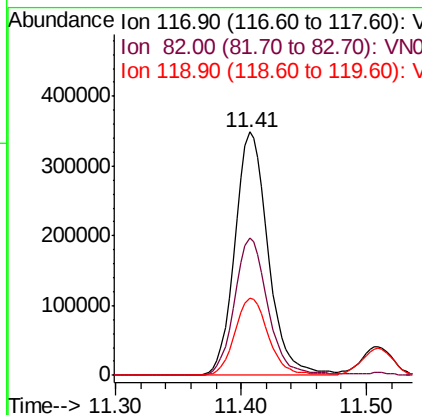
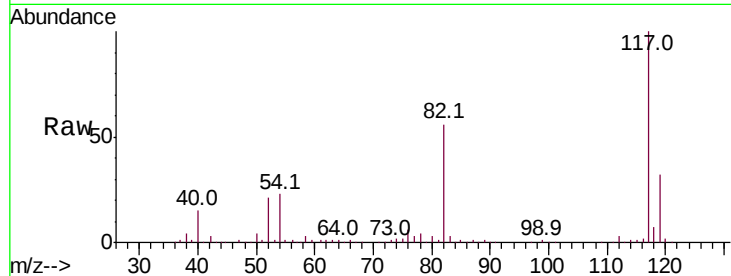
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.2	40.0	60.0
119	31.5	25.8	38.6

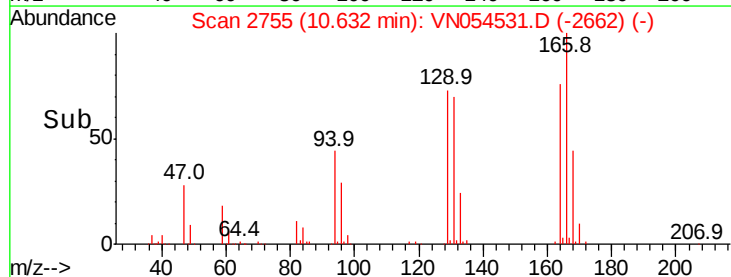
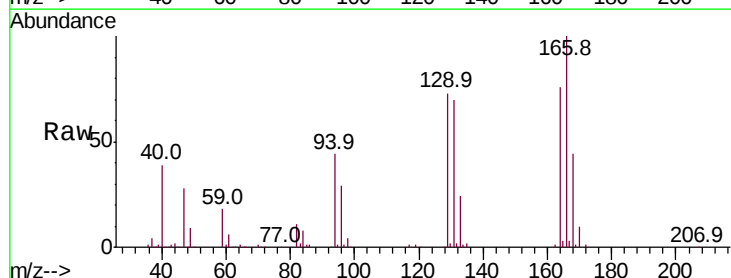
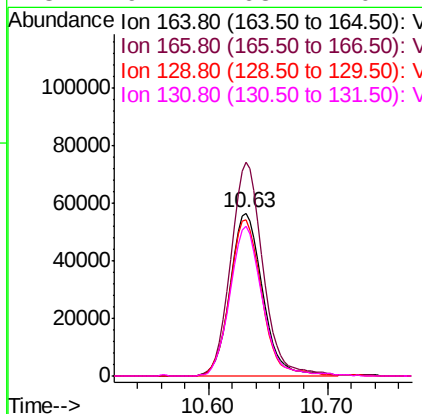
Manual Integrations
APPROVED

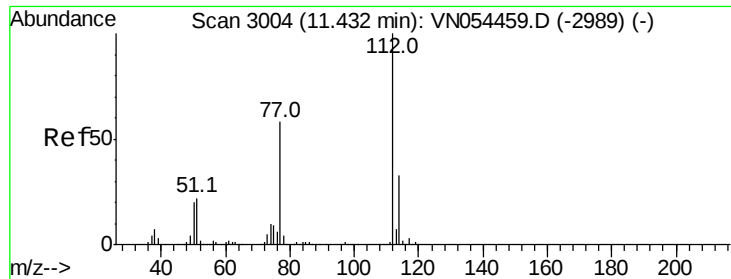
MMDadoda
3/22/2019 4:16:46 PM



#64
Tetrachloroethene
Concen: 20.118 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.4	103.9	155.9
129	96.1	71.1	106.7
131	92.4	68.2	102.4





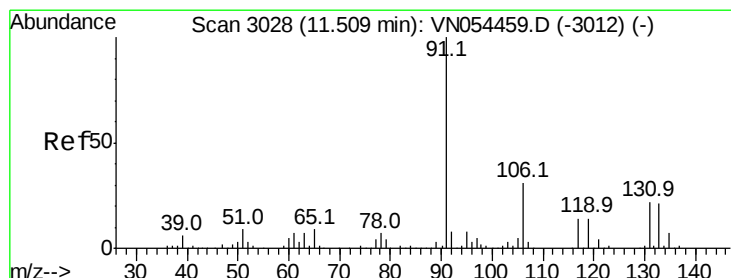
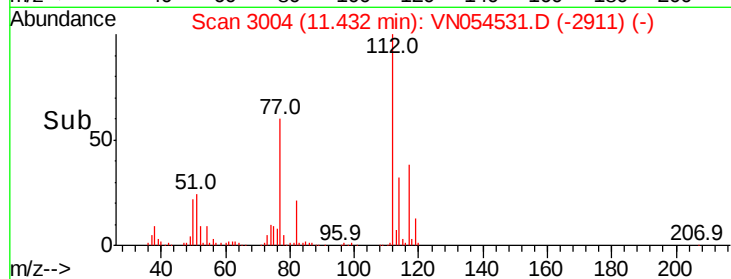
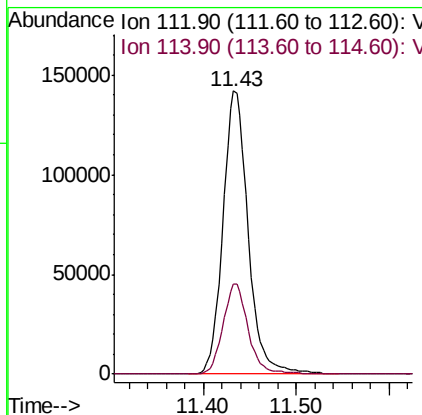
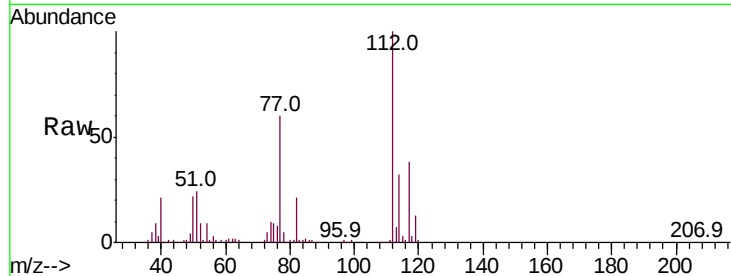
#65
Chlorobenzene
Concen: 20.422 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion:112 Resp: 267601
Ion Ratio Lower Upper
112 100
114 31.7 25.9 38.9

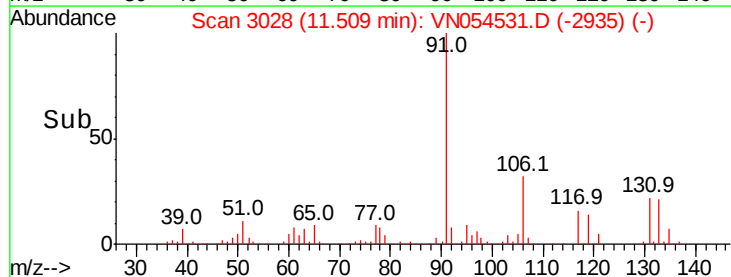
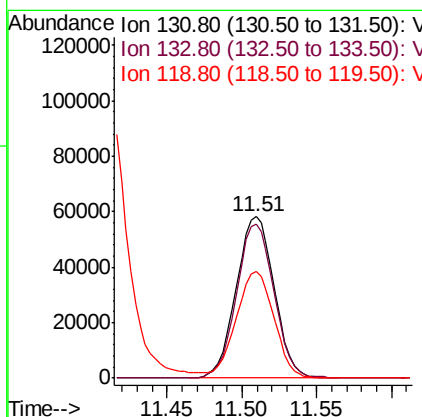
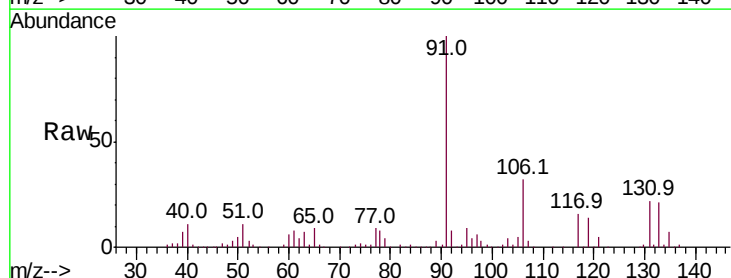
Manual Integrations
APPROVED

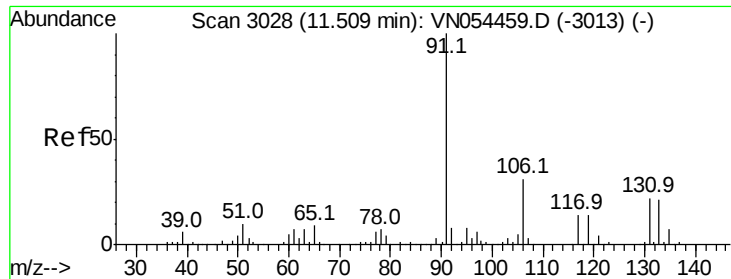
MMDadoda
3/22/2019 4:16:46 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.926 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion:131 Resp: 103126
Ion Ratio Lower Upper
131 100
133 94.0 47.6 142.9
119 65.5 32.4 97.0





#67

Ethyl Benzene

Concen: 20.212 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion: 91 Resp: 467845

Ion Ratio Lower Upper

91 100

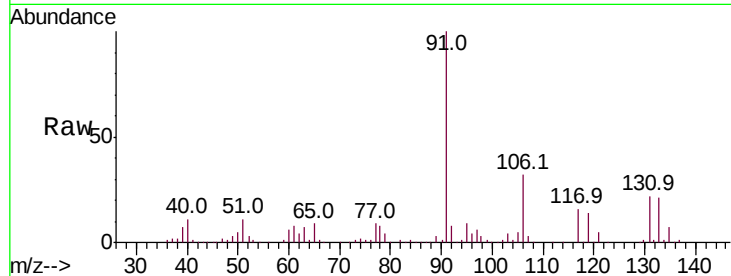
106 31.6 25.5 38.3

Manual Integrations

APPROVED

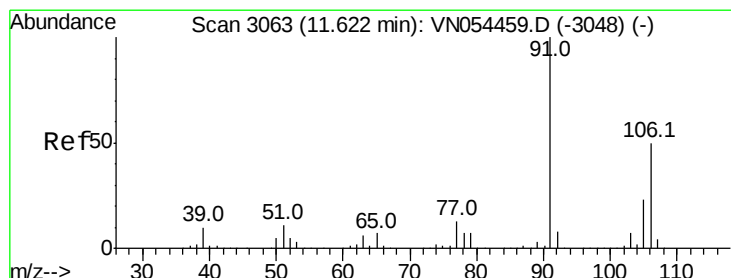
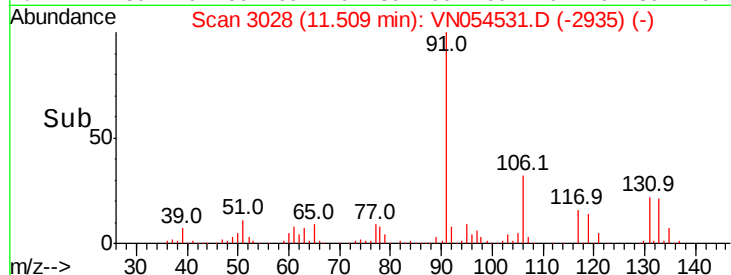
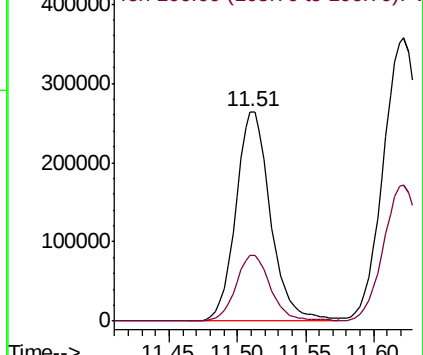
MMDadoda

3/22/2019 4:16:46 PM



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 39.555 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN054531.D

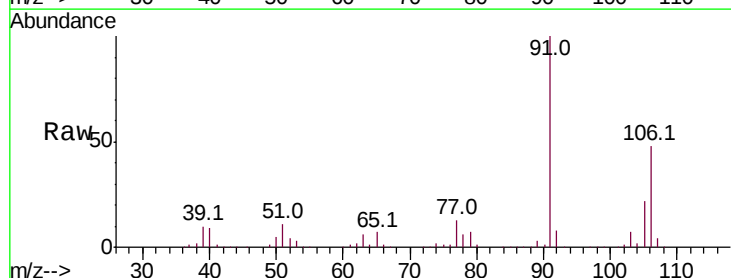
Acq: 22 Mar 2019 1:20

Tgt Ion: 106 Resp: 346792

Ion Ratio Lower Upper

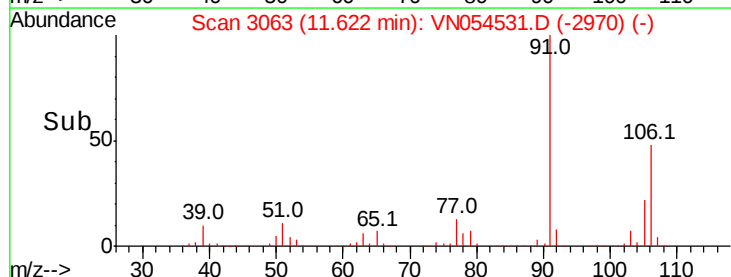
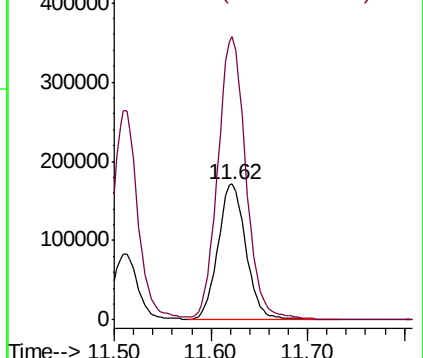
106 100

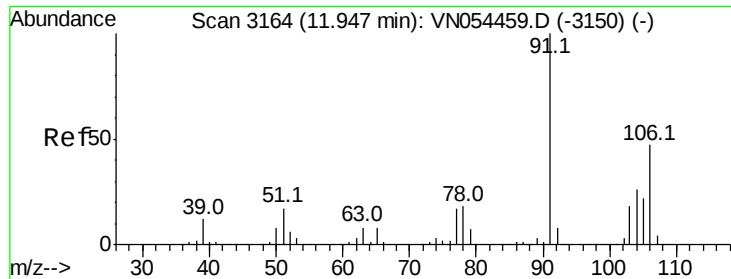
91 209.1 159.4 239.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





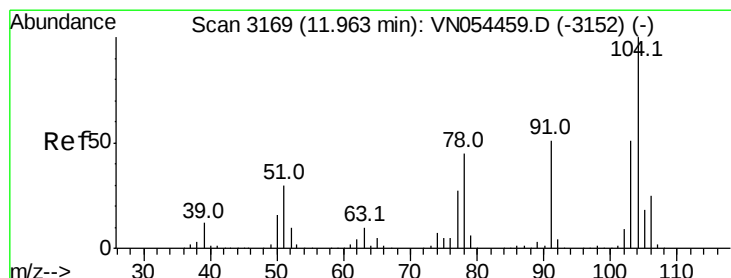
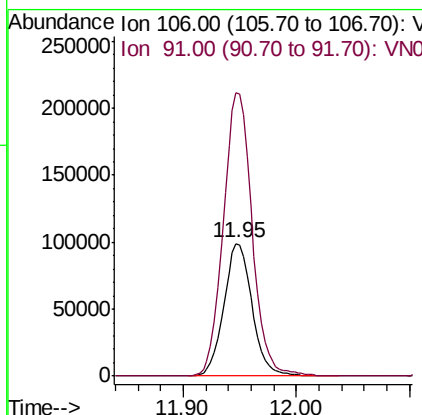
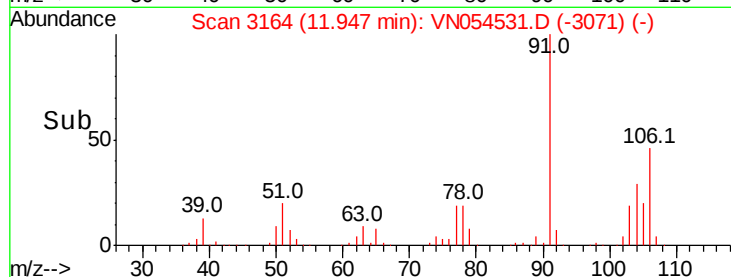
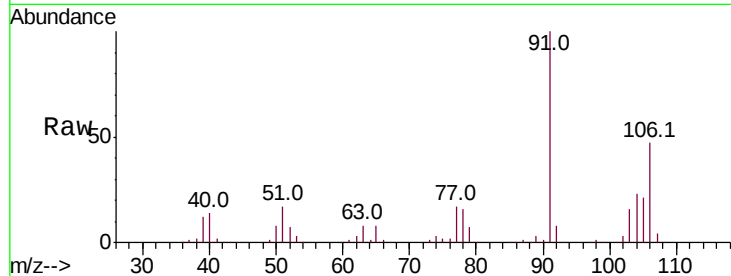
#69
o-Xylene
Concen: 20.152 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion:106 Resp: 172543
Ion Ratio Lower Upper
106 100
91 217.6 105.7 317.1

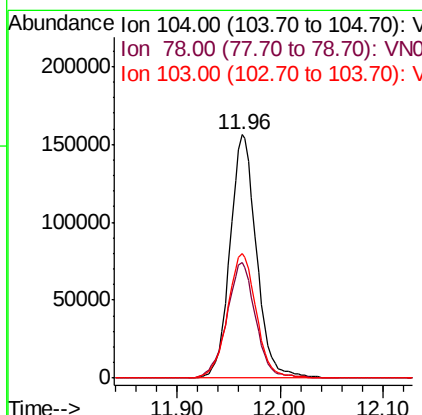
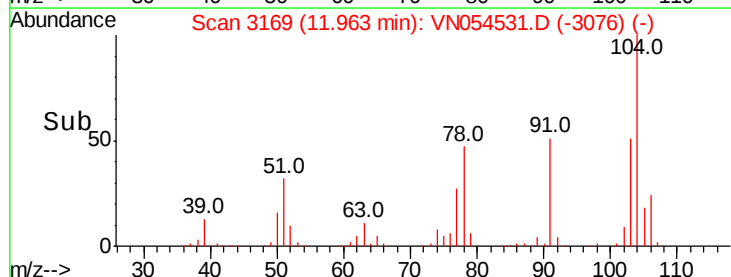
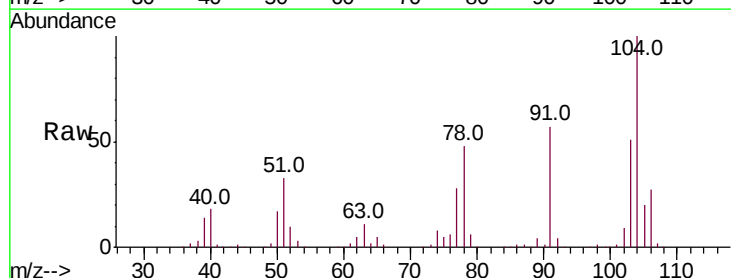
Manual Integrations
APPROVED

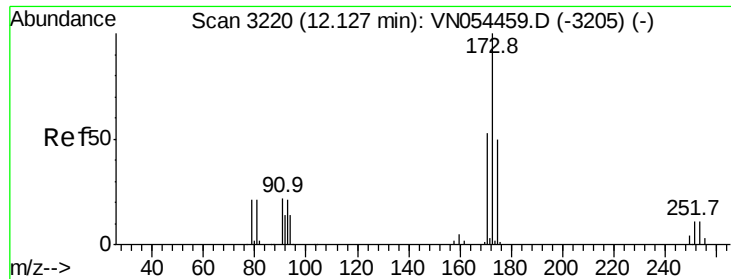
MMDadoda
3/22/2019 4:16:46 PM



#70
Styrene
Concen: 20.068 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion:104 Resp: 279037
Ion Ratio Lower Upper
104 100
78 51.9 38.2 57.2
103 55.9 44.4 66.6





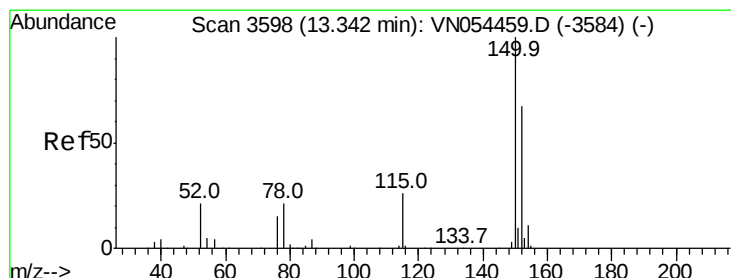
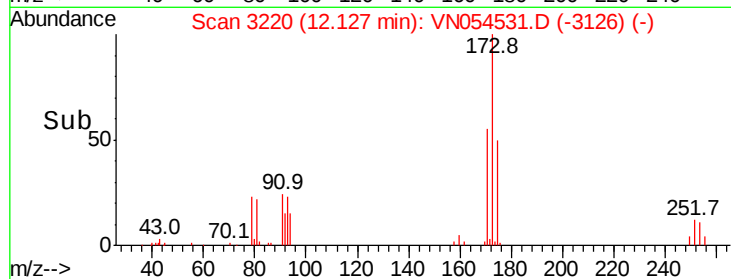
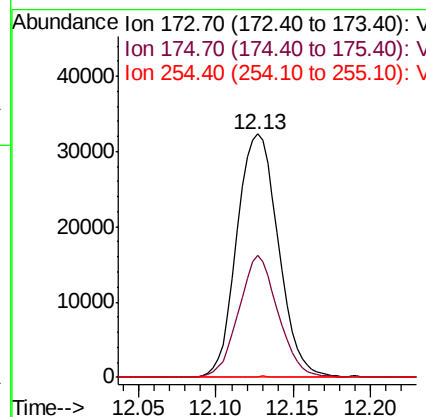
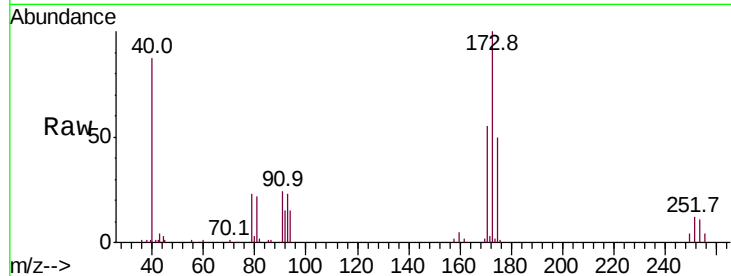
#71
Bromoform
Concen: 19.910 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.4	73.2
254	0.1	0.1	0.1#

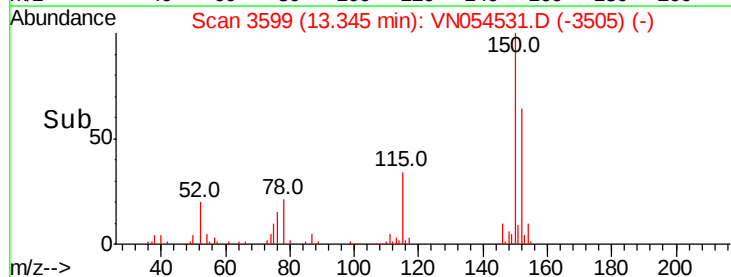
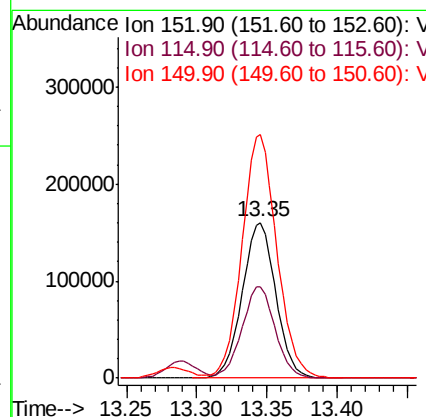
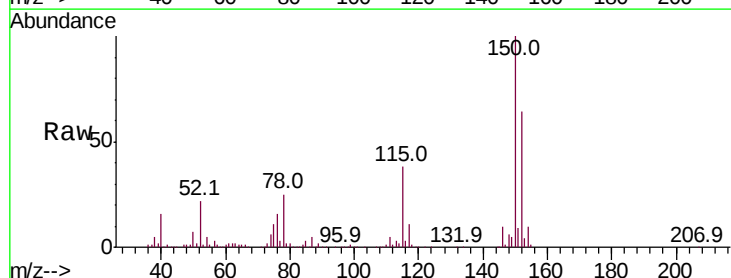
Manual Integrations
APPROVED

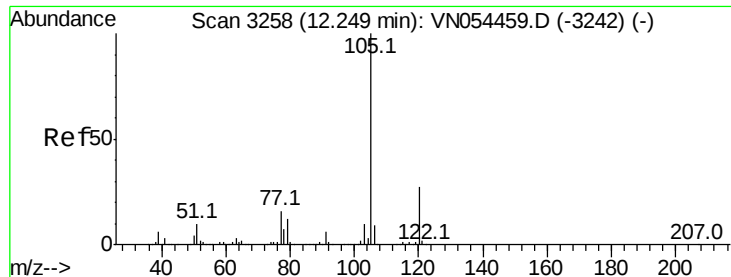
MMDadoda
3/22/2019 4:16:46 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.5	27.2	81.6
150	162.7	0.0	349.2





#73

Isopropylbenzene

Concen: 20.852 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion: 105 Resp: 447499

Ion Ratio Lower Upper

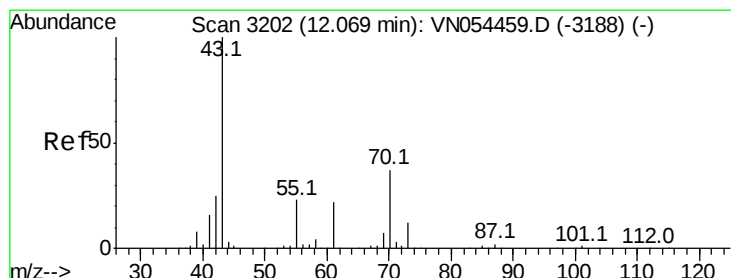
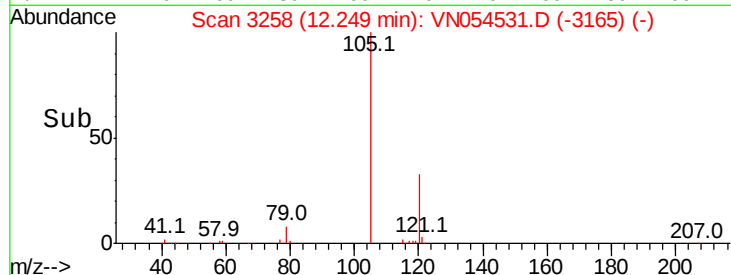
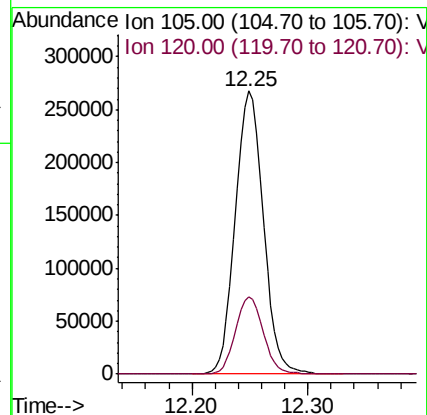
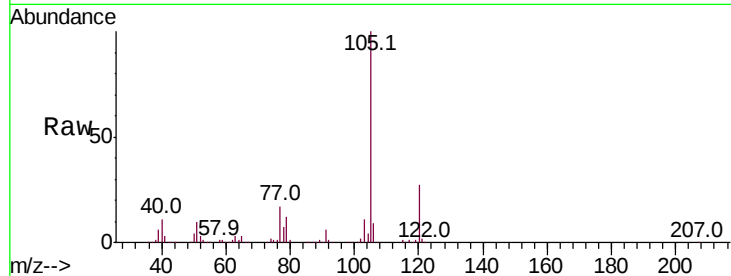
105 100

120 26.9 13.8 41.3

Manual Integrations
APPROVED

MMDadoda

3/22/2019 4:16:46 PM



#74

N-ethyl acetate

Concen: 23.684 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion: 43 Resp: 146151

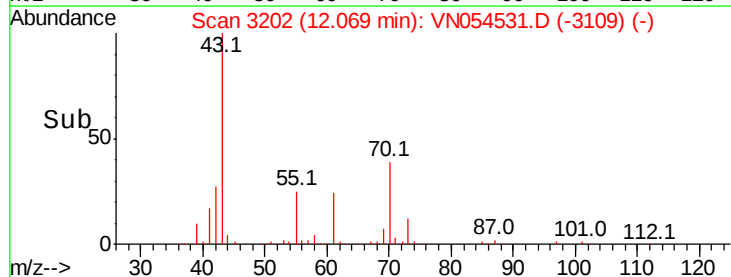
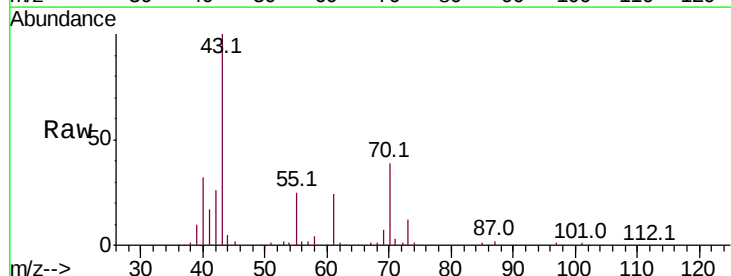
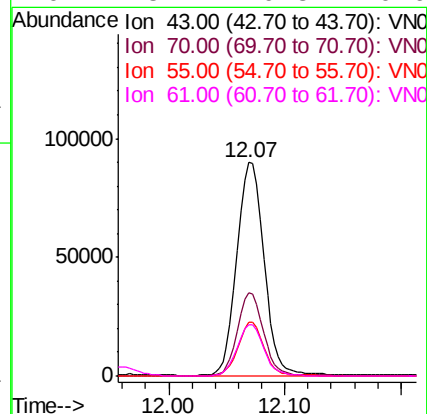
Ion Ratio Lower Upper

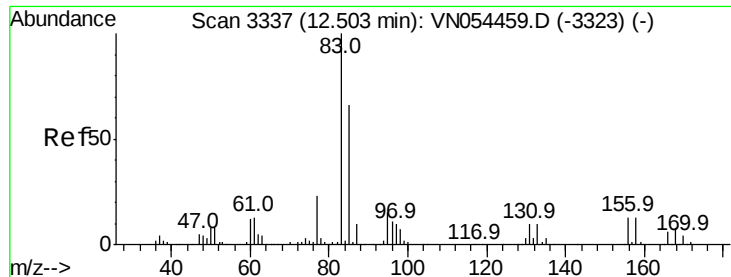
43 100

70 37.5 35.4 53.0

55 24.2 19.8 29.6

61 23.4 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 24.381 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

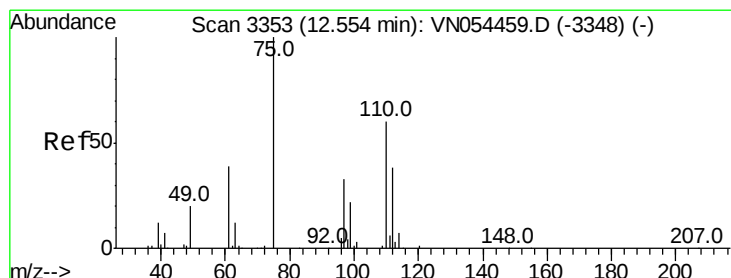
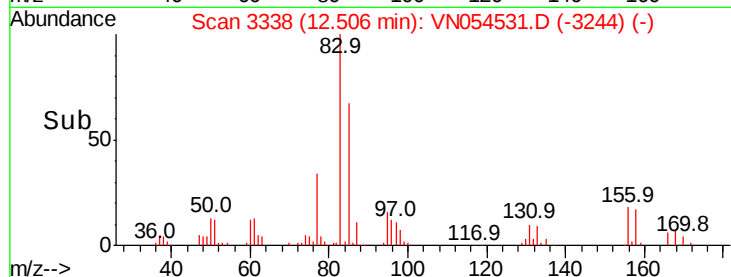
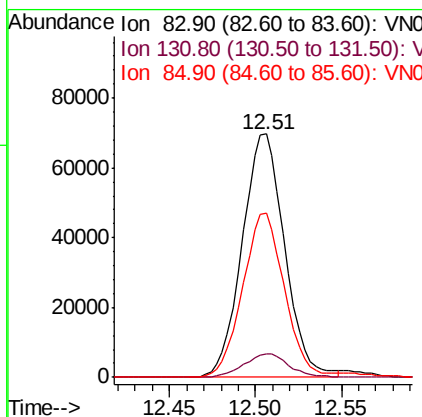
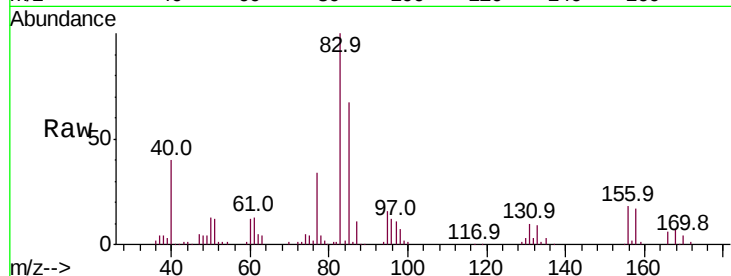
ClientSampleId :

VN0321WBSD02

Tot Ion:	83	Resp:	119441
Ion Ratio	Lower	Upper	
83	100		
131	10.2	5.8	17.4
85	66.3	32.2	96.6

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#76

1,2,3-Trichloropropane

Concen: 25.549 ug/l m

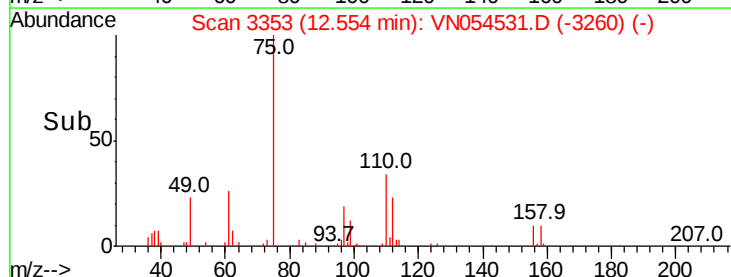
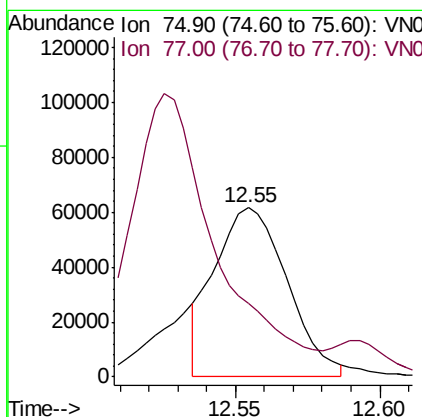
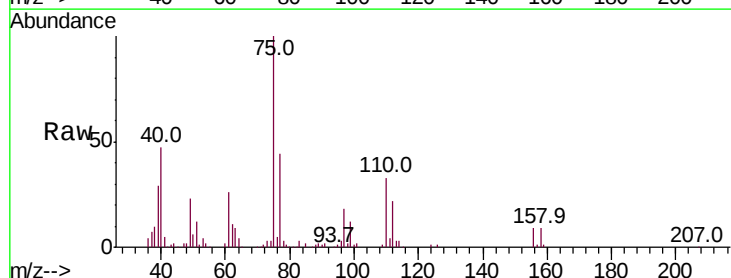
RT: 12.55 min Scan# 3353

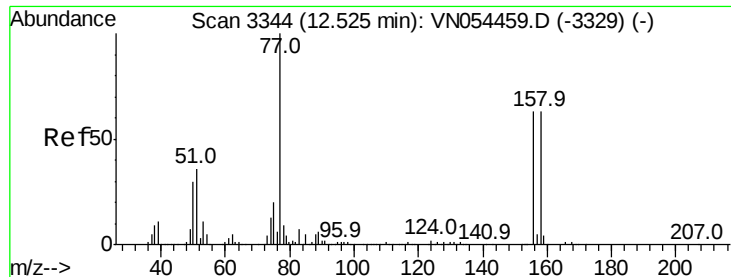
Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion:	75	Resp:	107972
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





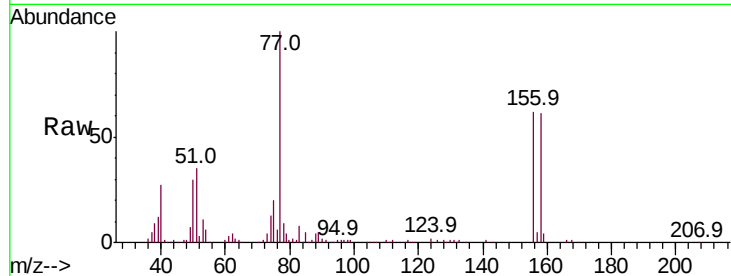
#77
Bromobenzene
Concen: 21.123 ug/l
RT: 12.53 min Scan# 3345
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

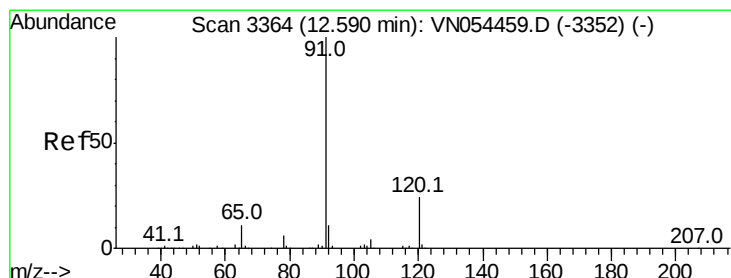
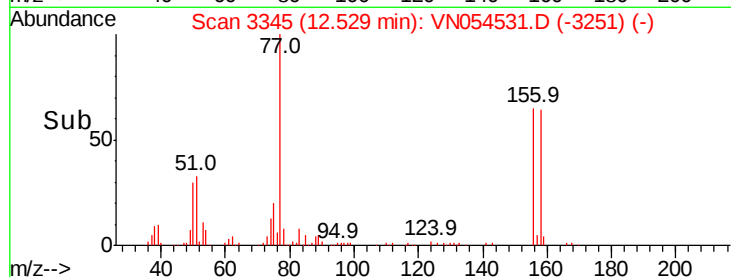
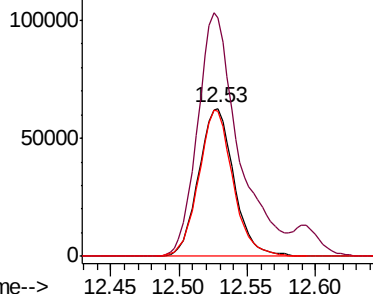
Tot Ion	Ratio	Lower	Upper
156	100		
77	192.6	81.5	244.4
158	96.1	49.0	147.2

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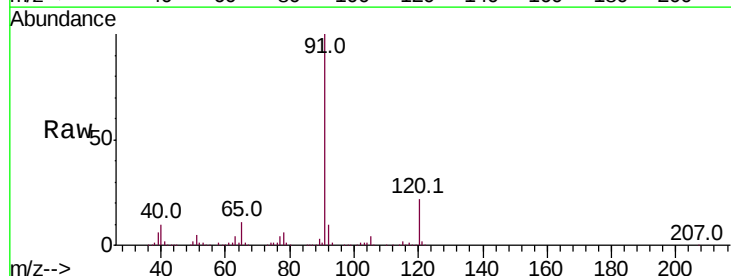


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VN
Ion 157.80 (157.50 to 158.50): V

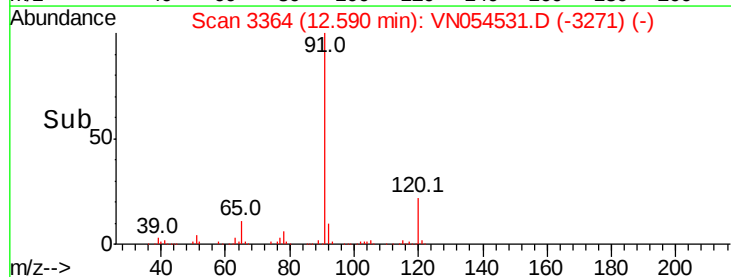
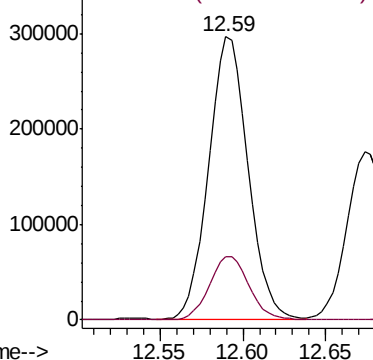


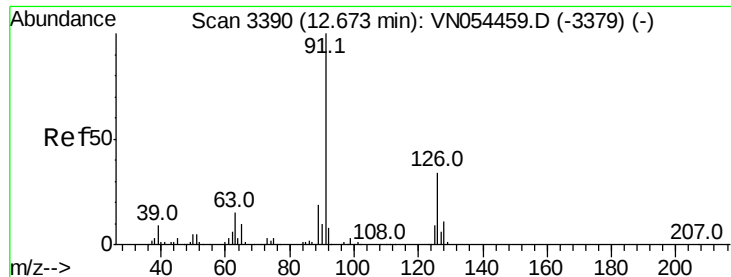
#78
n-propylbenzene
Concen: 20.992 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.8	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.859 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampled :

VN0321WBSD02

Tot Ion: 91 Resp: 302702

Ion Ratio Lower Upper

91 100

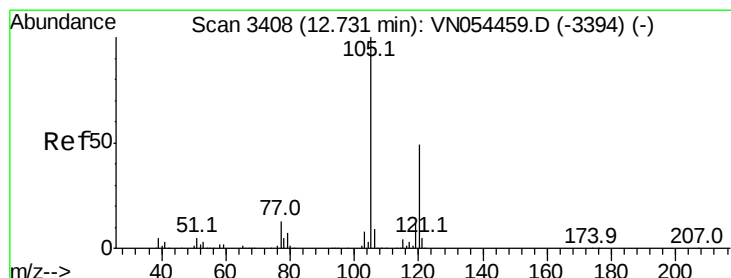
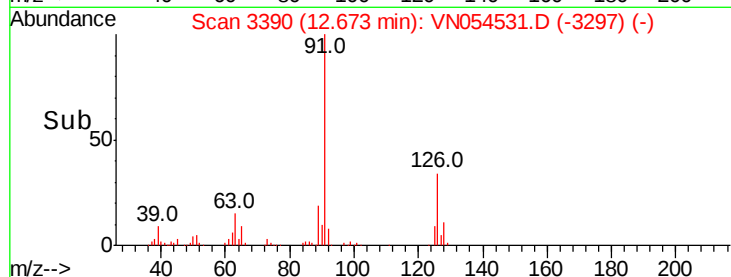
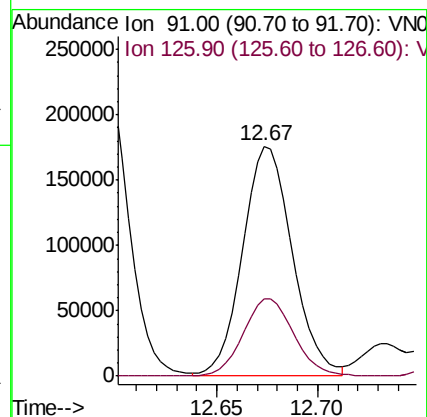
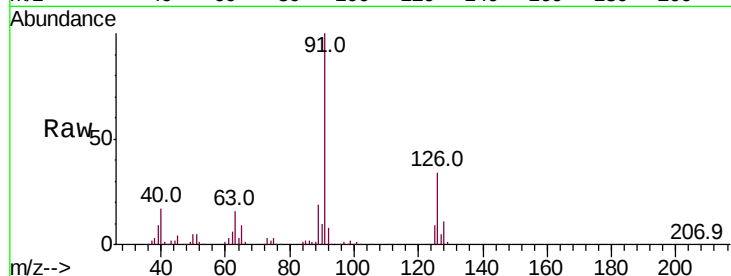
126 34.5 18.7 56.1

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#80

1,3,5-Trimethylbenzene

Concen: 20.722 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054531.D

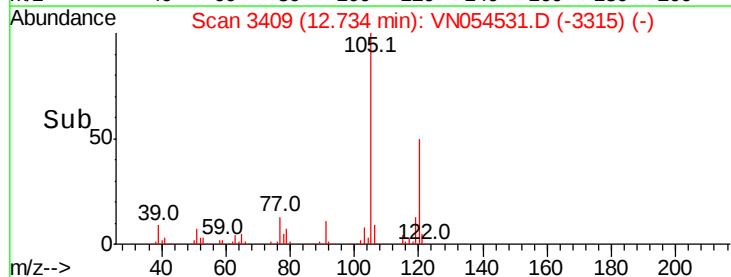
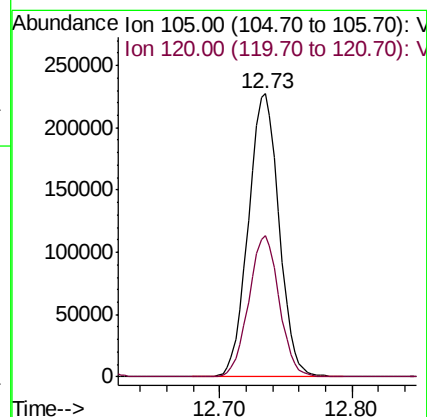
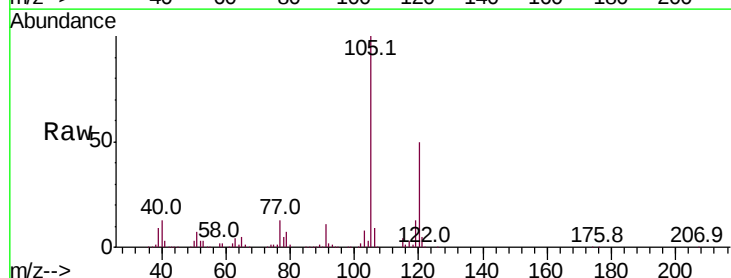
Acq: 22 Mar 2019 1:20

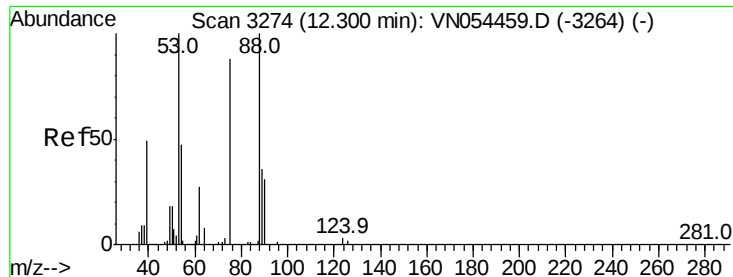
Tgt Ion: 105 Resp: 364474

Ion Ratio Lower Upper

105 100

120 49.5 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 18.445 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion: 75 Resp: 19992

Ion Ratio Lower Upper

75 100

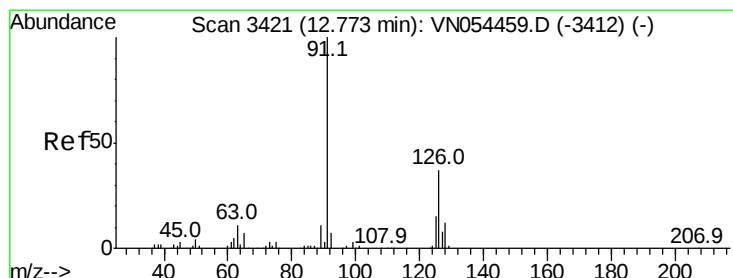
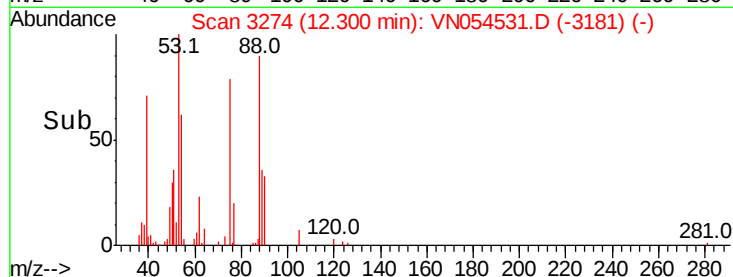
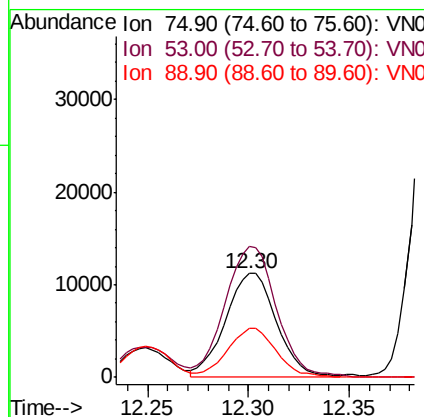
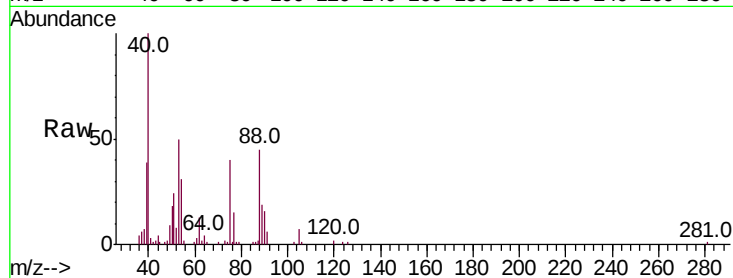
53 126.1 76.2 114.2#

89 44.9 39.2 58.8

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#82

4-Chlorotoluene

Concen: 20.627 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN054531.D

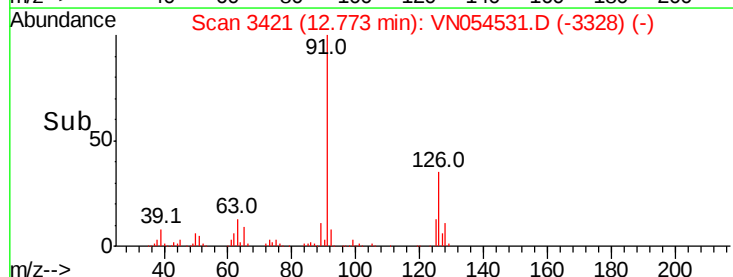
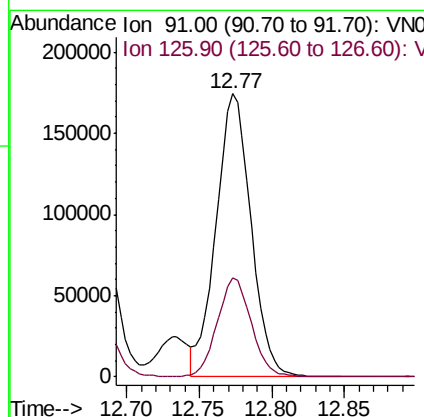
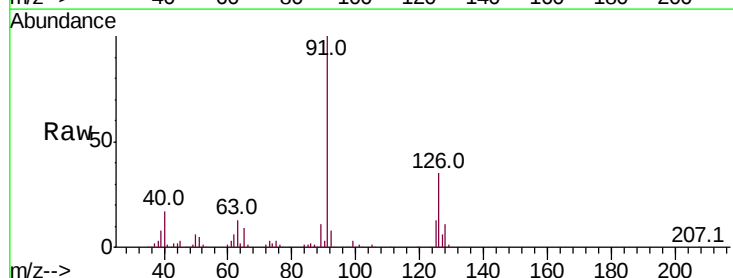
Acq: 22 Mar 2019 1:20

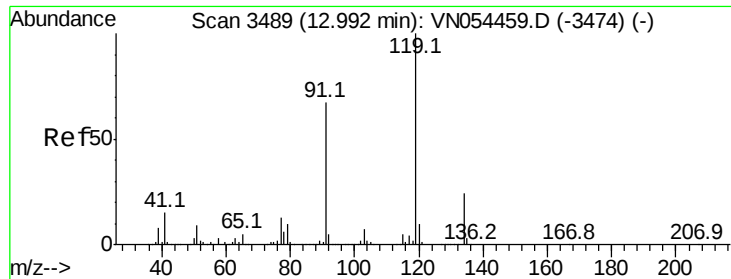
Tgt Ion: 91 Resp: 290146

Ion Ratio Lower Upper

91 100

126 34.1 18.1 54.1





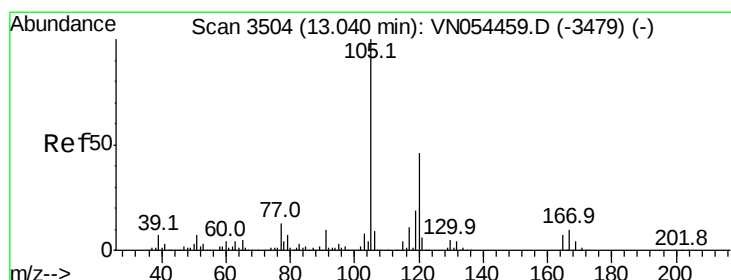
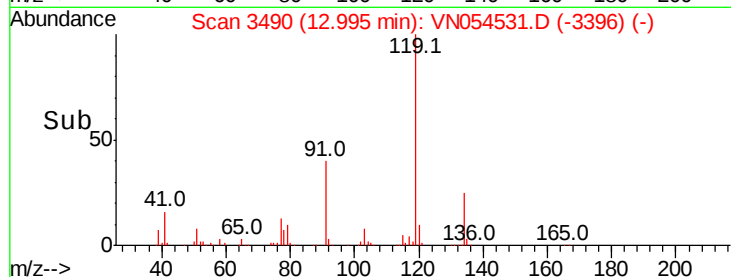
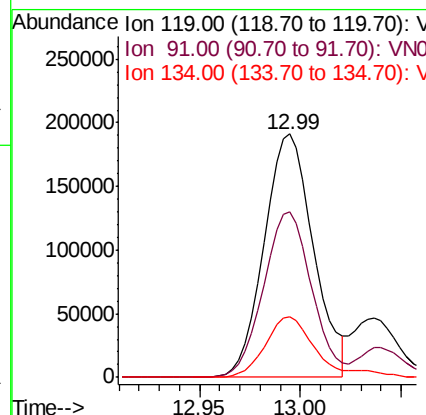
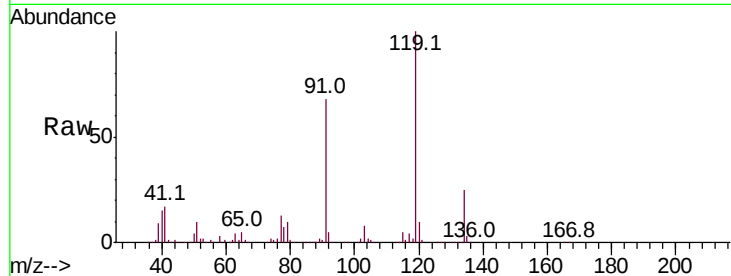
#83
tert-Butylbenzene
Concen: 21.241 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.7	30.9	92.8
134	26.0	13.2	39.6

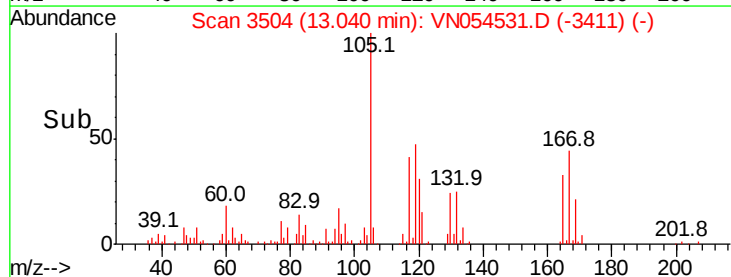
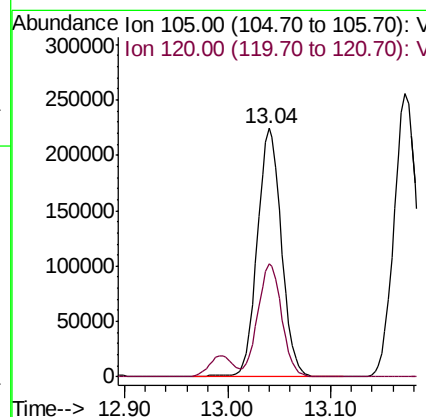
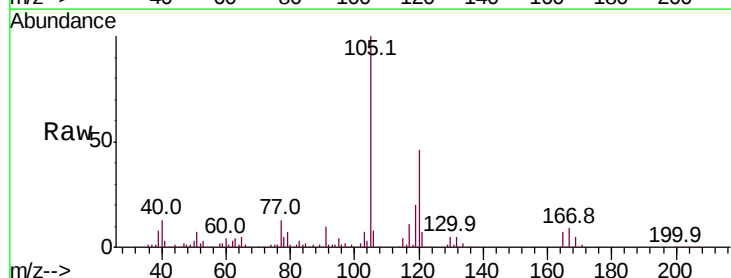
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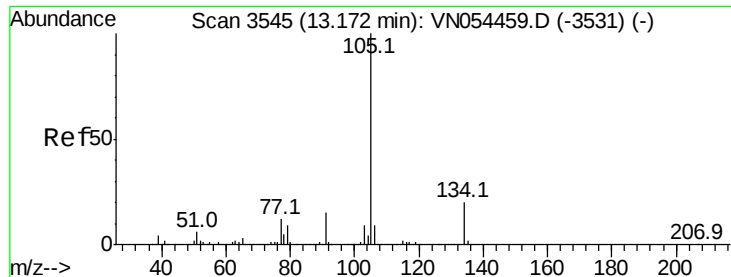
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#84
1,2,4-Trimethylbenzene
Concen: 21.029 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.4	70.3





#85

sec-Butylbenzene

Concen: 21.084 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion:105 Resp: 402398

Ion Ratio Lower Upper

105 100

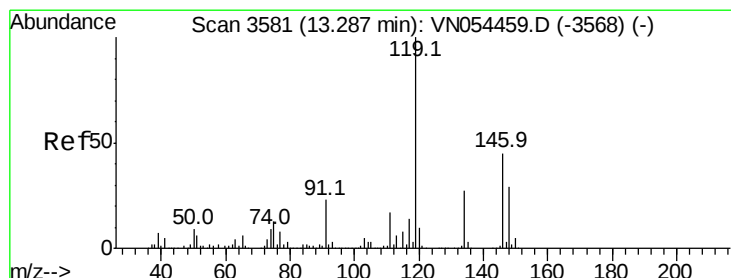
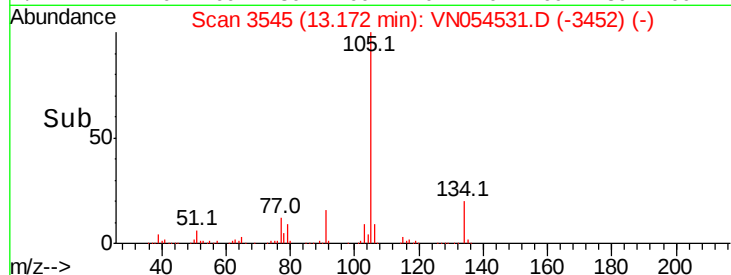
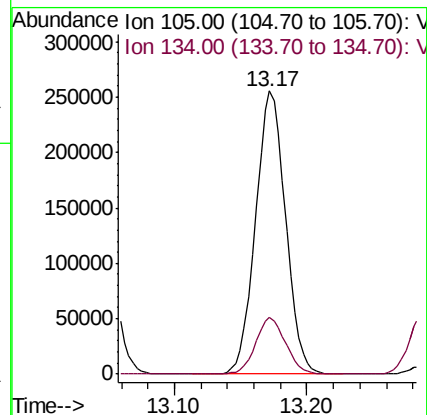
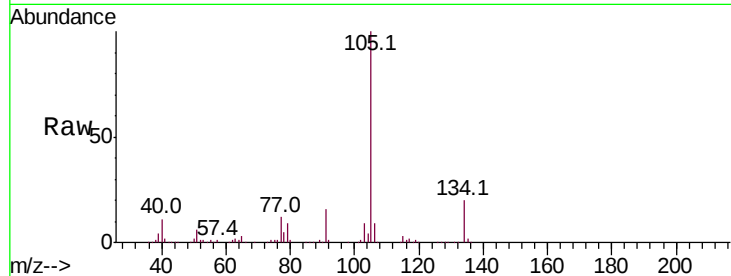
134 19.9 10.7 32.1

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#86

p-Isopropyltoluene

Concen: 20.536 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

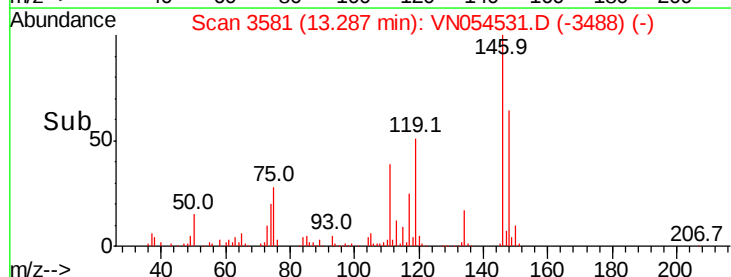
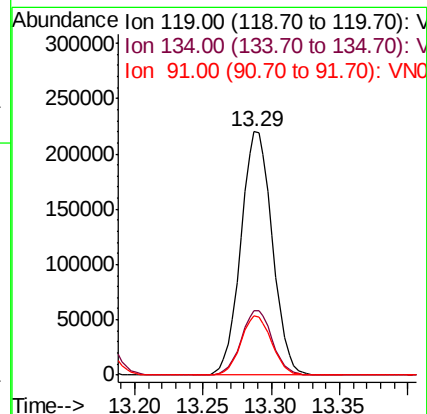
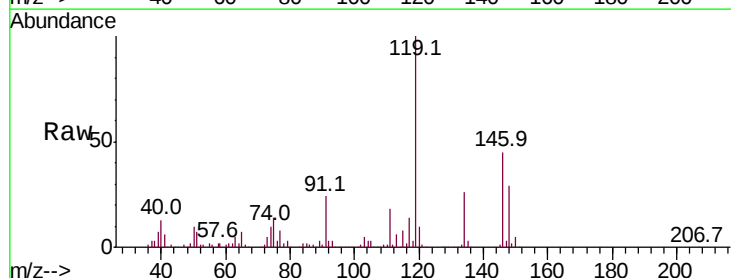
Tgt Ion:119 Resp: 350655

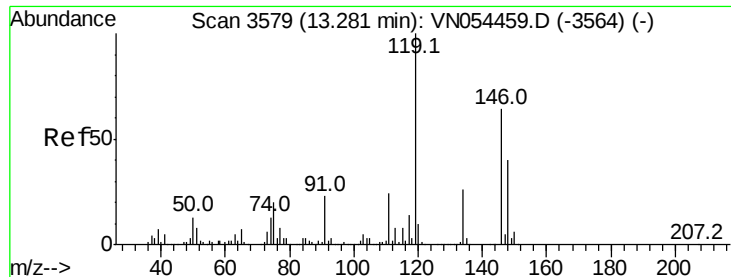
Ion Ratio Lower Upper

119 100

134 26.3 13.6 40.8

91 23.7 11.1 33.3





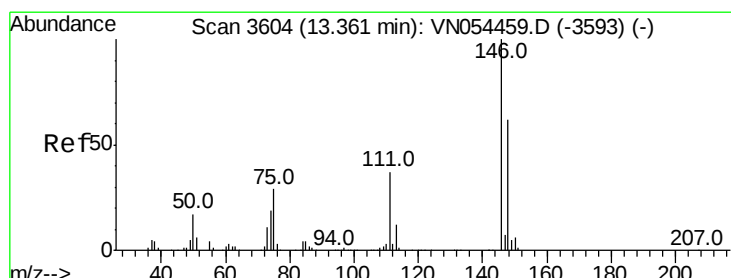
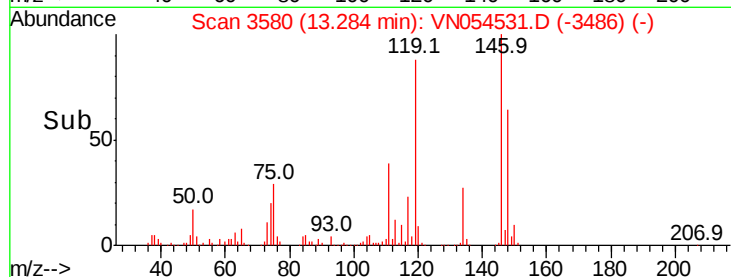
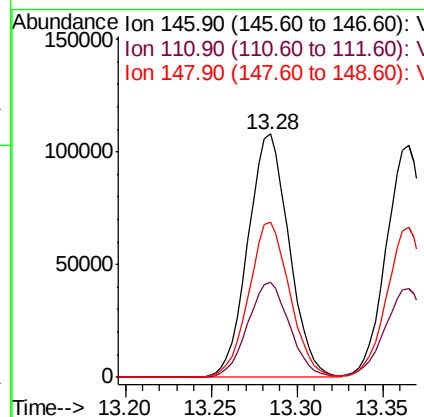
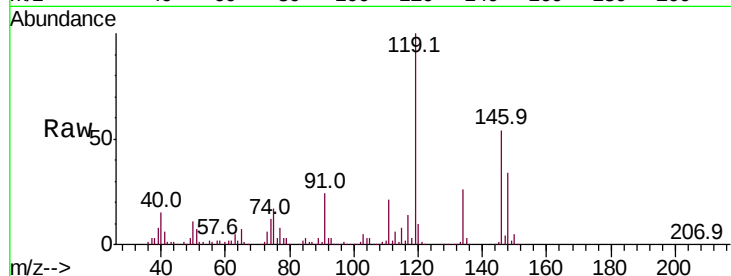
#87
 1,3-Dichlorobenzene
 Concen: 20.377 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	179736		
111	39.7	18.8	56.3	
148	63.5	32.2	96.6	

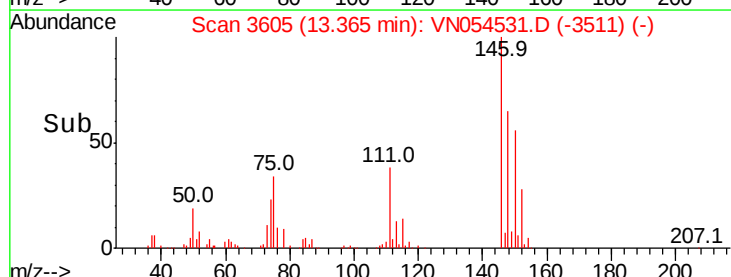
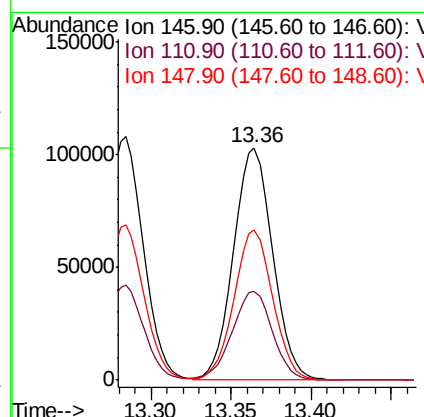
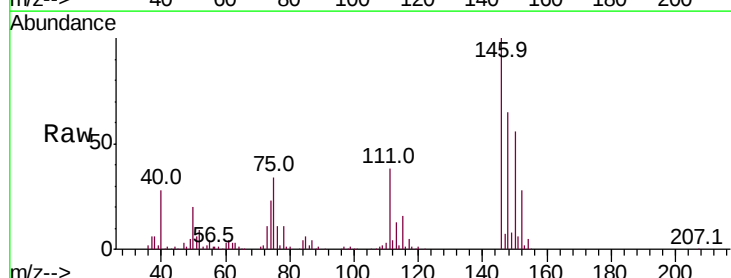
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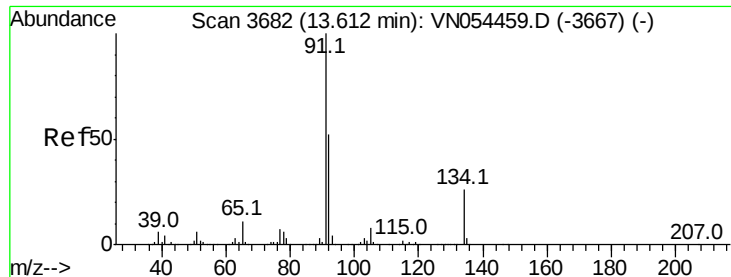
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#88
 1,4-Dichlorobenzene
 Concen: 20.010 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	171725		
111	39.5	18.1	54.1	
148	63.9	32.0	96.0	





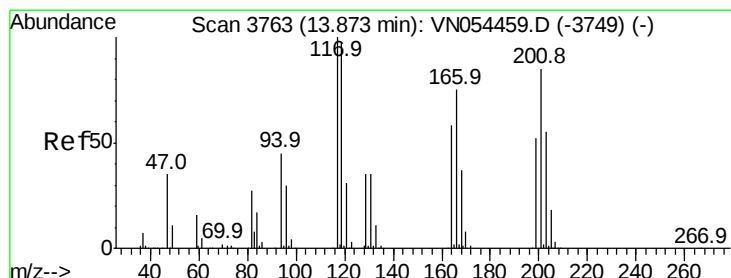
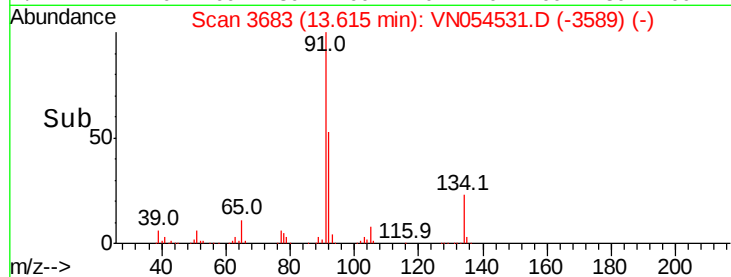
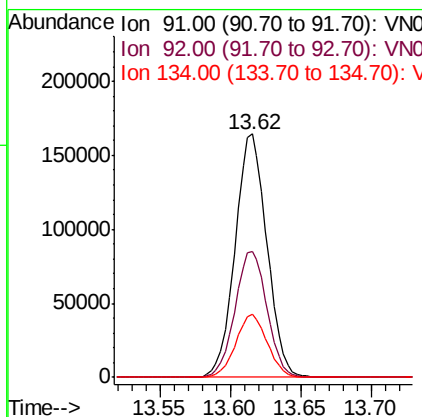
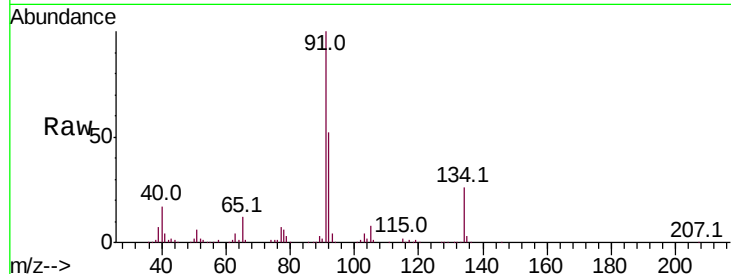
#89
n-Butylbenzene
Concen: 19.442 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.2	78.6
134	25.6	14.3	42.9

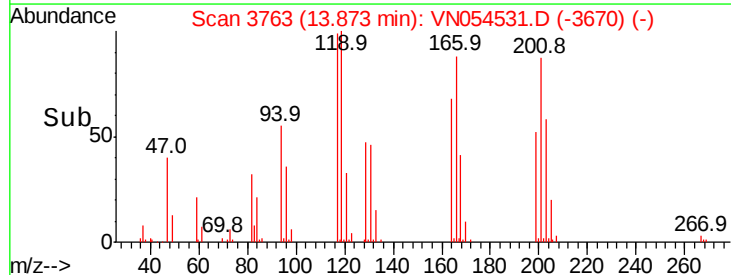
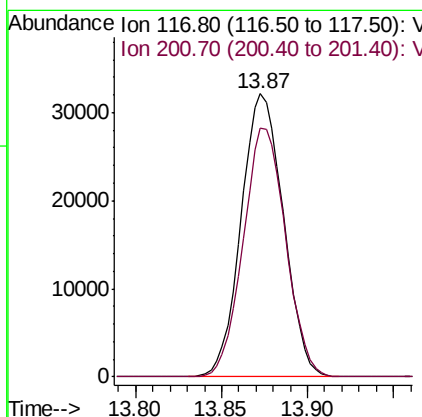
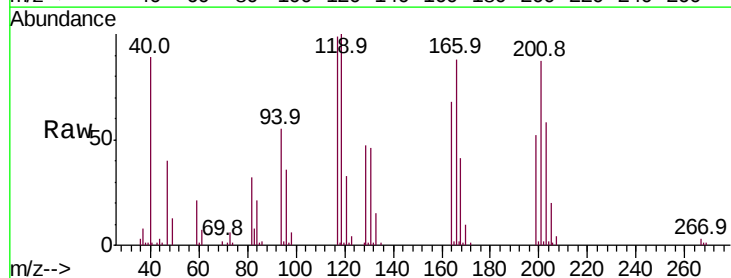
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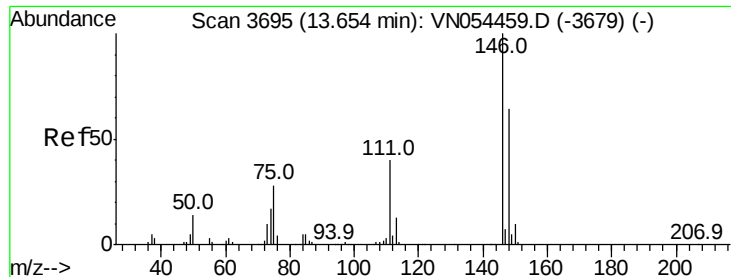
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#90
Hexachloroethane
Concen: 20.721 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.3	48.1	144.4





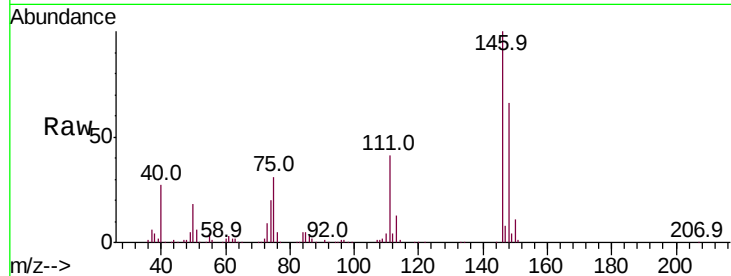
#91
 1,2-Dichlorobenzene
 Concen: 20.944 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	19.1	57.3
148	66.0	32.4	97.0

Manual Integrations
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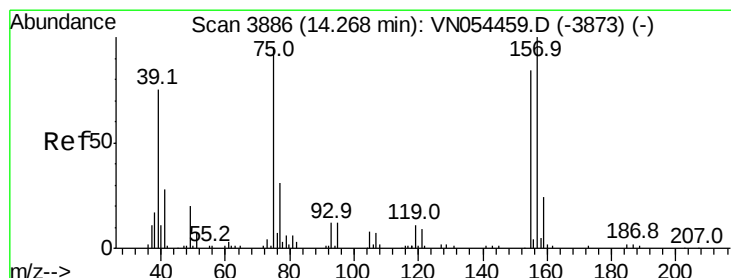
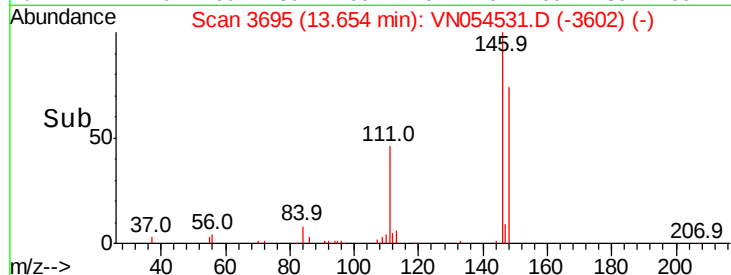
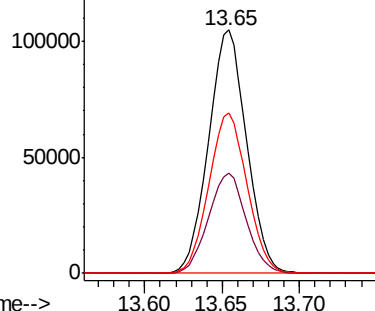


Abundance

Ion 145.90 (145.60 to 146.60): V

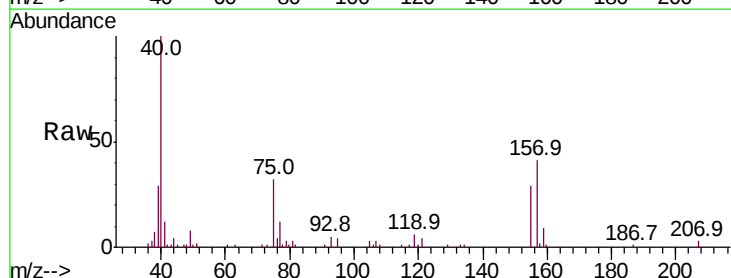
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.462 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.6	50.1	150.3
157	119.6	63.1	189.3

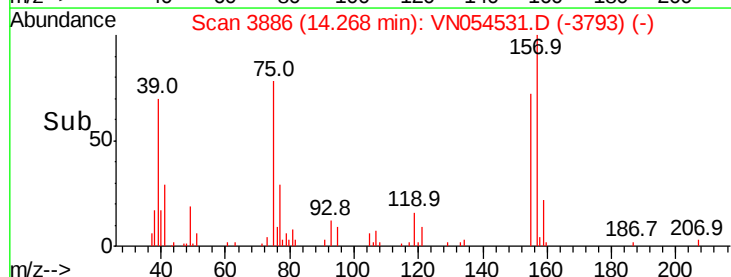
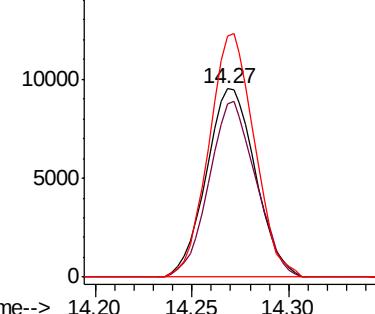


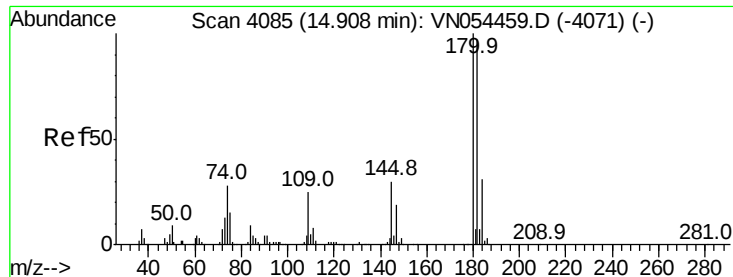
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 19.427 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

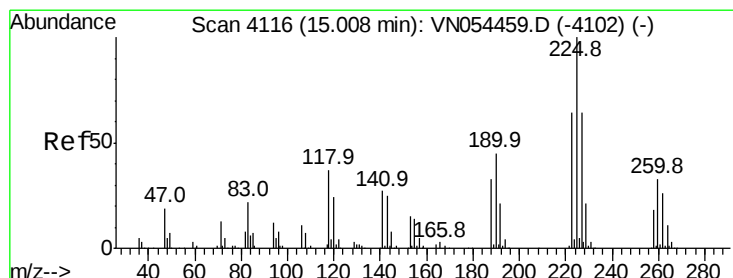
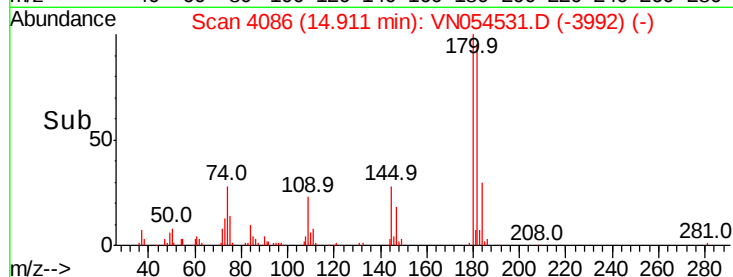
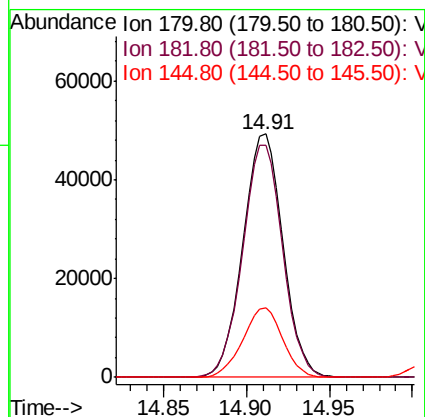
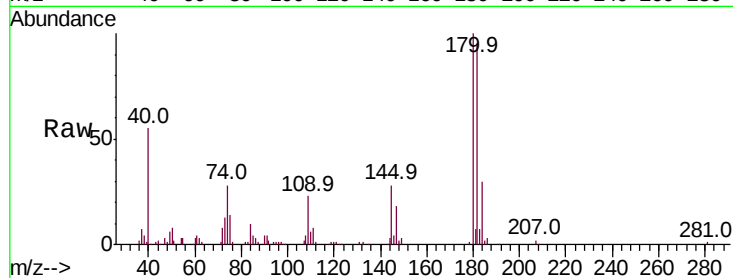
ClientSampleId :

VN0321WBSD02

Tot Ion:	180	Resp:	82739
Ion Ratio	Lower	Upper	
180	100		
182	95.7	48.0	144.2
145	28.4	14.2	42.8

Manual Integrations
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MMDadoda
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#94

Hexachlorobutadiene

Concen: 21.074 ug/l

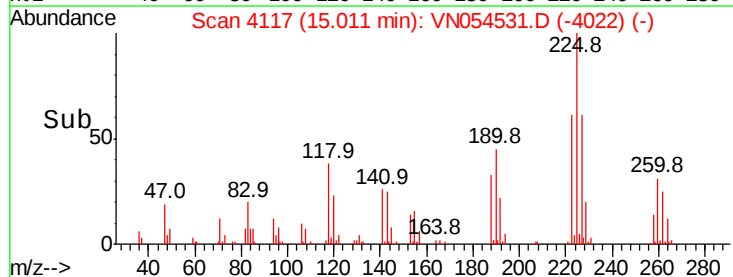
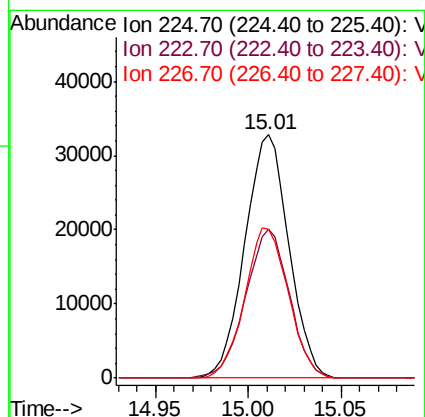
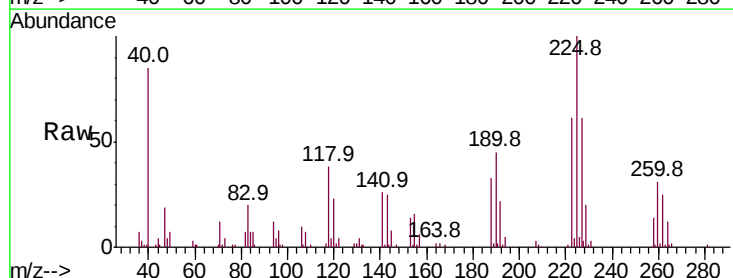
RT: 15.01 min Scan# 4117

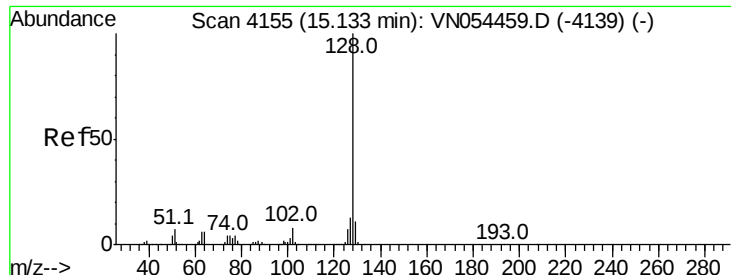
Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion:	225	Resp:	53858
Ion Ratio	Lower	Upper	
225	100		
223	60.8	31.1	93.5
227	61.4	31.9	95.9





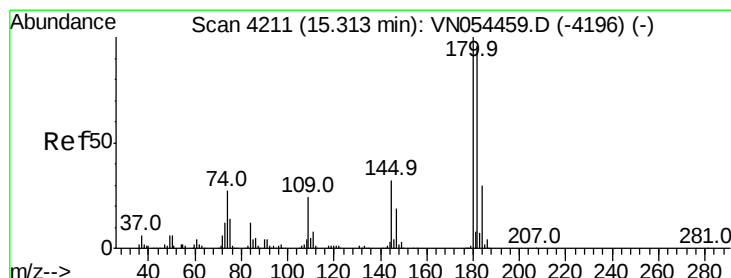
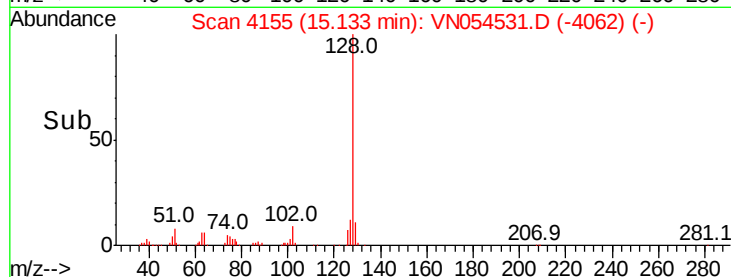
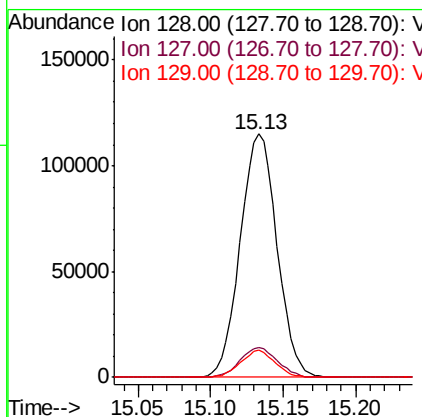
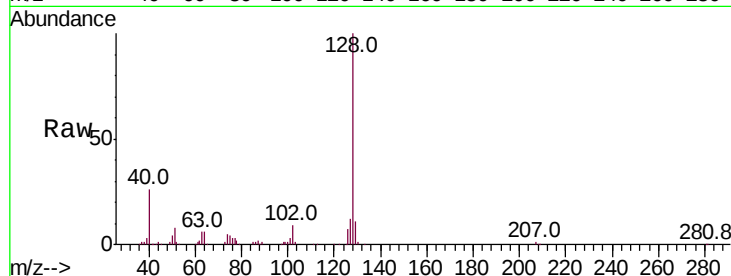
#95
Naphthalene
Concen: 21.395 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.1	15.1
129	10.5	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/22/2019 4:16:46 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.681 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.5	142.6
145	30.7	14.8	44.3

