

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083119\
 Data File : VN057592.D
 Acq On : 30 Aug 2019 17:05
 Operator : JC/SP
 Sample : VN0831WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS01

Manual Integrations
 APPROVED

MMDadoda
 8/31/2019 11:28:43 AM

Quant Time: Aug 31 01:03:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 11:59:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	406601	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	640311	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	577659	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	263376	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	350905	52.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.46%	
35) Dibromofluoromethane	7.58	113	276926	48.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.78%	
50) Toluene-d8	10.09	98	1059864	52.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.72%	
62) 4-Bromofluorobenzene	12.40	95	335277	49.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	93739	20.517	ug/l	97
3) Chloromethane	2.06	50	87965	19.284	ug/l	90
4) Vinyl Chloride	2.18	62	140454	20.871	ug/l	99
5) Bromomethane	2.55	94	132794	22.915	ug/l	96
6) Chloroethane	2.70	64	94081	20.851	ug/l	97
7) Trichlorofluoromethane	3.01	101	306656	21.938	ug/l	100
8) Diethyl Ether	3.40	74	96045	20.680	ug/l	66
9) 1,1,2-Trichlorotrifluoroet	3.74	101	180968	22.106	ug/l #	84
10) Methyl Iodide	3.93	142	278439	20.778	ug/l	94
11) Tert butyl alcohol	4.80	59	60217	91.753	ug/l	98
12) 1,1-Dichloroethene	3.72	96	170263	22.101	ug/l #	70
13) Acrolein	3.59	56	52227	92.938	ug/l	94
14) Allyl chloride	4.30	41	107976	19.148	ug/l #	83
15) Acrylonitrile	4.97	53	160623	98.847	ug/l	99
16) Acetone	3.81	43	283827	105.508	ug/l	95
17) Carbon Disulfide	4.03	76	172468	16.376	ug/l	98
18) Methyl Acetate	4.31	43	85923	21.779	ug/l #	88
19) Methyl tert-butyl Ether	5.03	73	278005	18.944	ug/l	93
20) Methylene Chloride	4.53	84	90680	18.196	ug/l	85
21) trans-1,2-Dichloroethene	5.01	96	89598	18.592	ug/l	81
22) Diisopropyl ether	5.94	45	260961	20.644	ug/l #	91
23) Vinyl Acetate	5.88	43	1033565	104.632	ug/l #	92
24) 1,1-Dichloroethane	5.83	63	165970	19.939	ug/l	99
25) 2-Butanone	6.83	43	221590	104.357	ug/l #	85
26) 2,2-Dichloropropane	6.81	77	151805	17.862	ug/l	79
27) cis-1,2-Dichloroethene	6.81	96	111580	19.118	ug/l	83
28) Bromochloromethane	7.18	49	80952	23.136	ug/l #	58
29) Tetrahydrofuran	7.21	42	136795	103.016	ug/l #	78
30) Chloroform	7.36	83	194540	18.833	ug/l	99
31) Cyclohexane	7.64	56	150917	19.523	ug/l #	82
32) 1,1,1-Trichloroethane	7.56	97	175647	19.129	ug/l	96
36) 1,1-Dichloropropene	7.78	75	132617	19.146	ug/l	95
37) Ethyl Acetate	6.92	43	95257	20.756	ug/l #	95
38) Carbon Tetrachloride	7.76	117	144679	17.862	ug/l	99

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 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 11:59:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	167937	19.056	ug/l	89
40) Benzene	8.03	78	406380	19.158	ug/l	98
41) Methacrylonitrile	7.17	41	46803	22.992	ug/l	90
42) 1,2-Dichloroethane	8.11	62	153000	20.265	ug/l	98
43) Isopropyl Acetate	8.16	43	169328	19.767	ug/l #	93
44) Trichloroethene	8.83	130	114065	19.473	ug/l	85
45) 1,2-Dichloropropane	9.11	63	98142	19.799	ug/l	98
46) Dibromomethane	9.20	93	76118	19.583	ug/l #	86
47) Bromodichloromethane	9.40	83	148665	18.552	ug/l	97
48) Methyl methacrylate	9.19	41	80072	19.792	ug/l #	81
49) 1,4-Dioxane	9.20	88	29539	400.091	ug/l #	78
51) 4-Methyl-2-Pentanone	9.98	43	480527	104.960	ug/l	93
52) Toluene	10.15	92	265963	19.353	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	139285	17.986	ug/l	98
54) cis-1,3-Dichloropropene	9.83	75	156150	18.616	ug/l	90
55) 1,1,2-Trichloroethane	10.56	97	102268	19.349	ug/l	97
56) Ethyl methacrylate	10.43	69	134393	19.103	ug/l #	86
57) 1,3-Dichloropropane	10.71	76	168432	19.948	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	172674	104.615	ug/l #	86
59) 2-Hexanone	10.75	43	333619	105.547	ug/l	93
60) Dibromochloromethane	10.90	129	104781	17.380	ug/l	100
61) 1,2-Dibromoethane	11.00	107	105994	19.164	ug/l	96
64) Tetrachloroethene	10.63	164	111640	18.817	ug/l	91
65) Chlorobenzene	11.43	112	282655	19.494	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	104035	18.193	ug/l	98
67) Ethyl Benzene	11.51	91	509783	20.021	ug/l	96
68) m/p-Xylenes	11.62	106	383446	39.540	ug/l	93
69) o-Xylene	11.95	106	188878	19.395	ug/l	93
70) Styrene	11.96	104	291617	19.838	ug/l	96
71) Bromoform	12.13	173	61539	16.122	ug/l #	98
73) Isopropylbenzene	12.25	105	506795	18.032	ug/l	99
74) N-amyl acetate	12.07	43	139348	22.821	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	12.51	83	124568	20.673	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	114409m	21.757	ug/l	
77) Bromobenzene	12.53	156	116651	17.954	ug/l	74
78) n-propylbenzene	12.59	91	523221	18.792	ug/l	97
79) 2-Chlorotoluene	12.67	91	310328	17.894	ug/l	91
80) 1,3,5-Trimethylbenzene	12.73	105	420765	19.078	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	28192	16.095	ug/l	95
82) 4-Chlorotoluene	12.77	91	297011	18.458	ug/l	93
83) tert-Butylbenzene	12.99	119	366660	19.742	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	399171	19.789	ug/l	98
85) sec-Butylbenzene	13.17	105	456743	18.841	ug/l	97
86) p-Isopropyltoluene	13.29	119	409490	19.653	ug/l	96
87) 1,3-Dichlorobenzene	13.29	146	178660	18.934	ug/l	95
88) 1,4-Dichlorobenzene	13.37	146	171278	18.928	ug/l	97
89) n-Butylbenzene	13.62	91	304196	19.272	ug/l	97
90) Hexachloroethane	13.88	117	63837	14.559	ug/l	83
91) 1,2-Dichlorobenzene	13.66	146	173682	19.721	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.27	75	17623	17.838	ug/l	74

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ClientSampleId :
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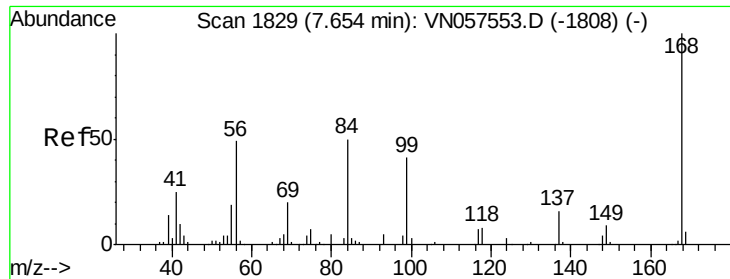
Manual Integrations
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8/31/2019 11:28:43 AM

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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	47989	15.928	ug/l	96
94) Hexachlorobutadiene	15.01	225	57044	19.654	ug/l	98
95) Naphthalene	15.13	128	144643	16.598	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	47556	15.978	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS01

Tot Ion:168 Resp: 406601

Ion Ratio Lower Upper

168 100

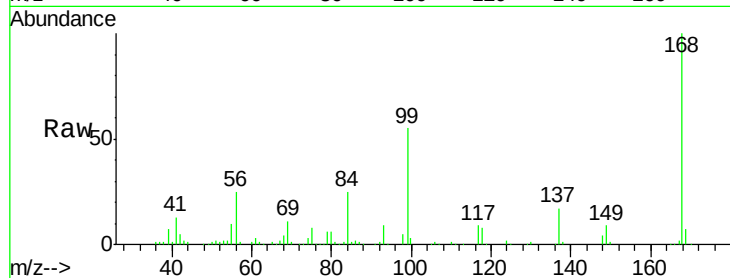
99 55.2 50.6 76.0

Manual Integrations

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8/31/2019 11:28:43 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

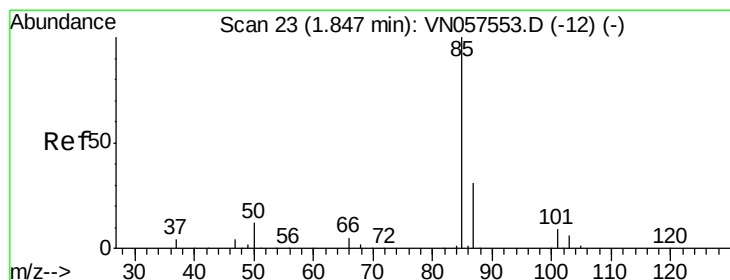
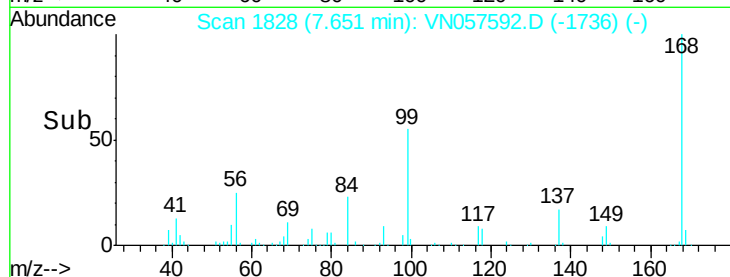
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 20.517 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN057592.D

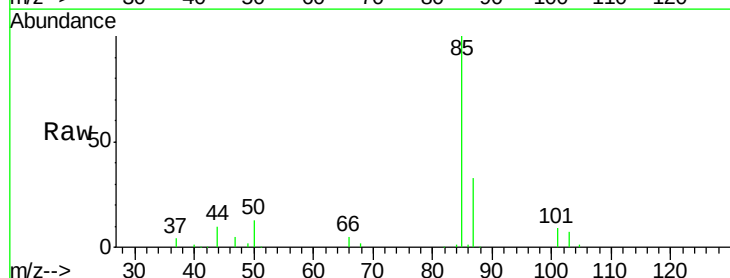
Acq: 30 Aug 2019 17:05

Tgt Ion: 85 Resp: 93739

Ion Ratio Lower Upper

85 100

87 32.5 17.1 51.2



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

80000

60000

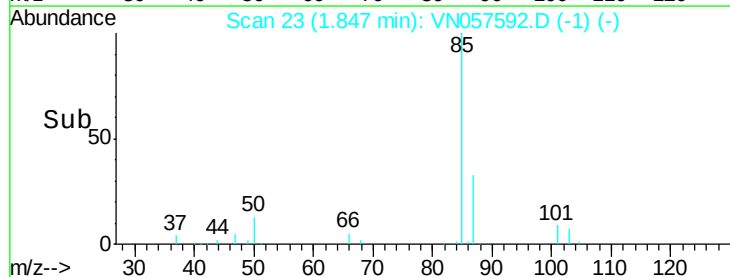
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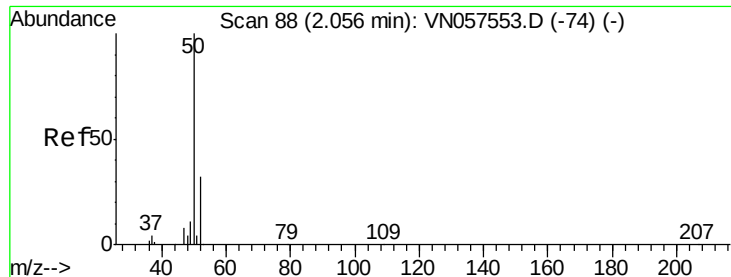
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.284 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS01

Tot Ion: 50 Resp: 87965

Ion Ratio Lower Upper

50 100

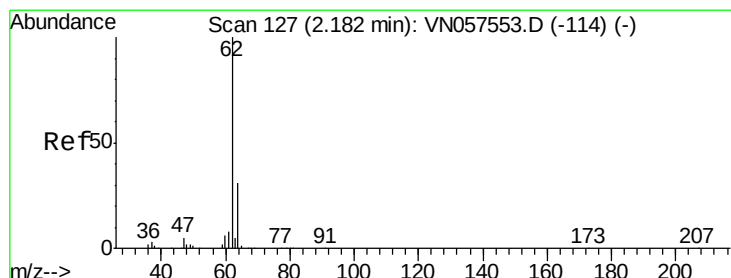
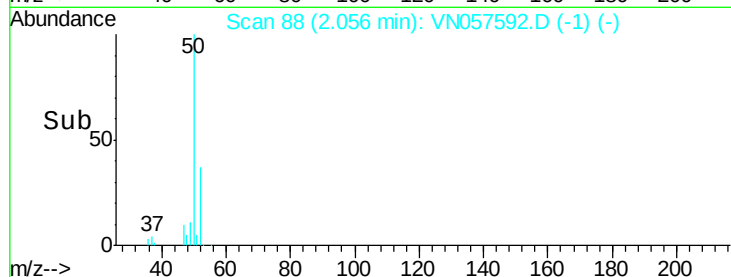
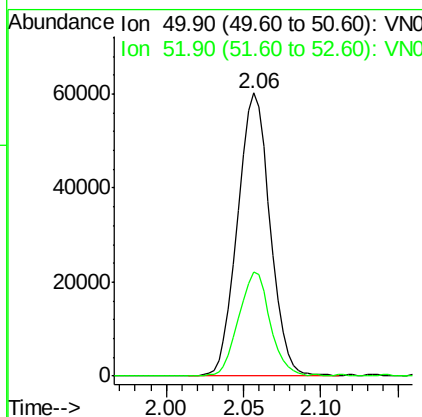
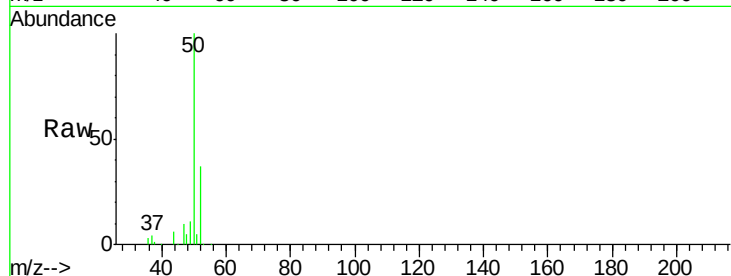
52 37.0 25.1 37.7

Manual Integrations

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8/31/2019 11:28:43 AM



#4

Vinyl Chloride

Concen: 20.871 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057592.D

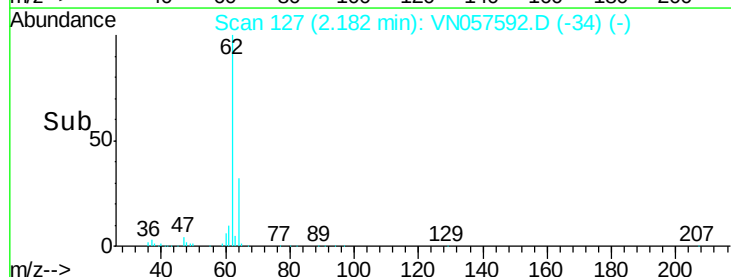
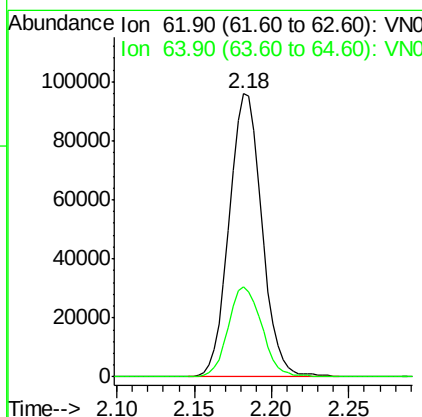
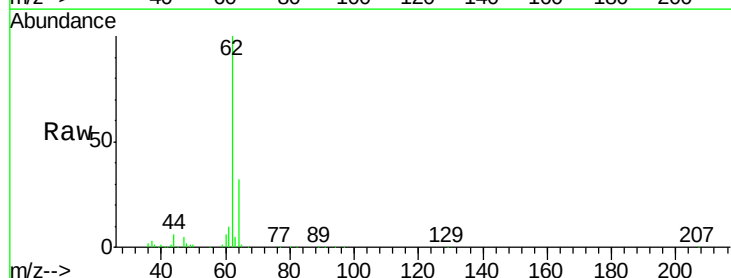
Acq: 30 Aug 2019 17:05

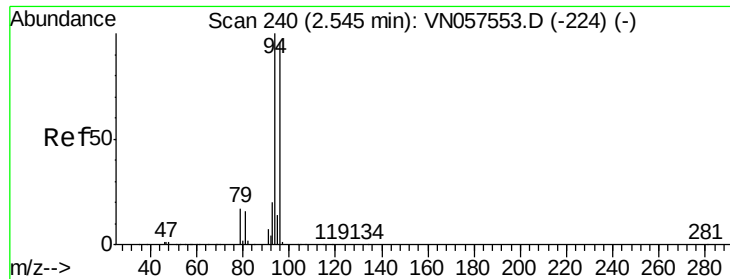
Tgt Ion: 62 Resp: 140454

Ion Ratio Lower Upper

62 100

64 31.9 25.8 38.8





#5

Bromomethane

Concen: 22.915 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

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ClientSampleId :

VN0831WBS01

Tot Ion: 94 Resp: 132794

Ion Ratio Lower Upper

94 100

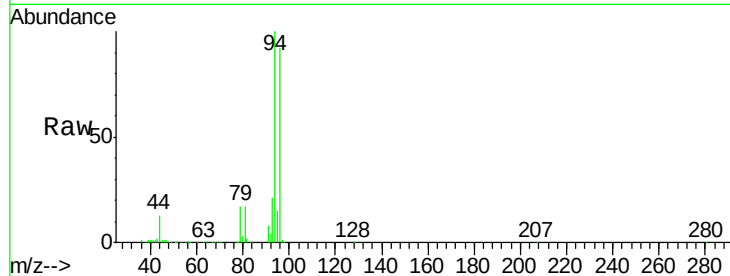
96 91.8 76.2 114.4

Manual Integrations

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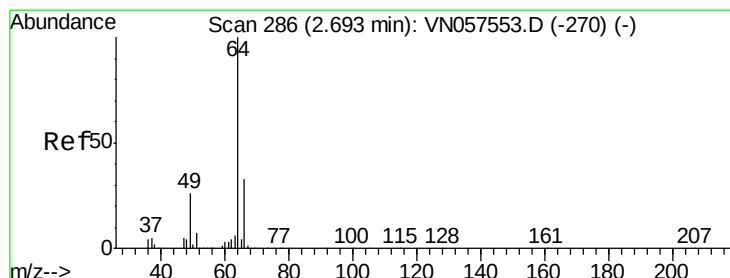
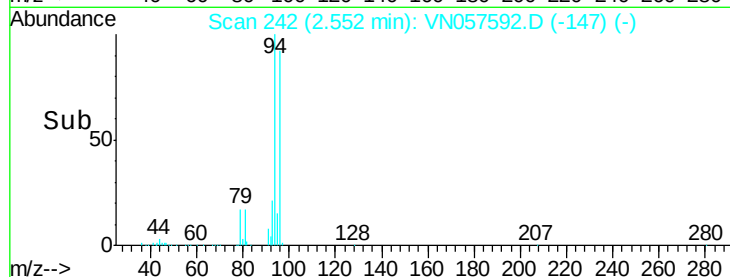
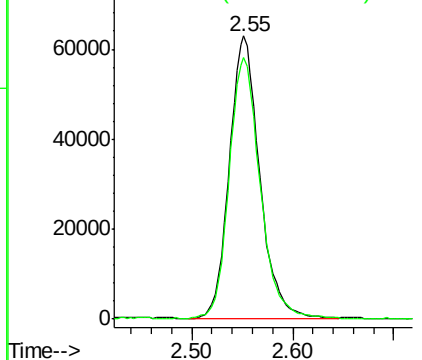
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8/31/2019 11:28:43 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.851 ug/l

RT: 2.70 min Scan# 287

Delta R.T. 0.00 min

Lab File: VN057592.D

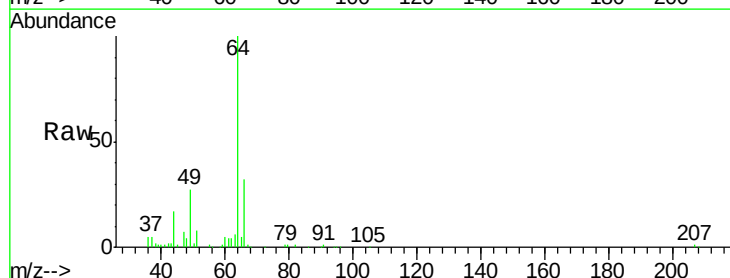
Acq: 30 Aug 2019 17:05

Tgt Ion: 64 Resp: 94081

Ion Ratio Lower Upper

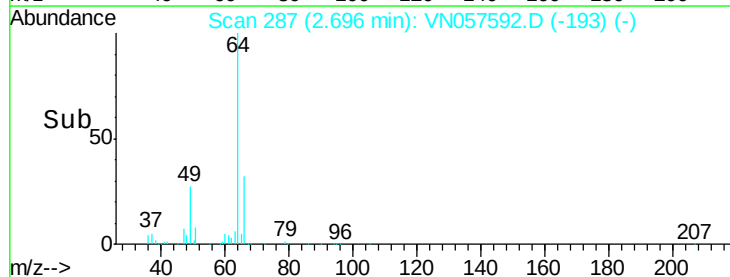
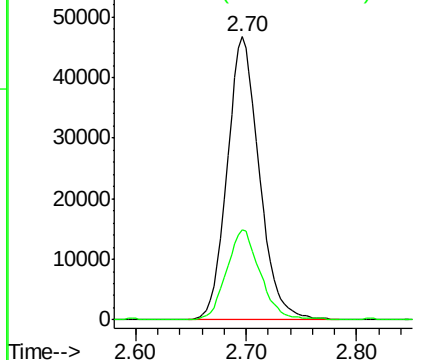
64 100

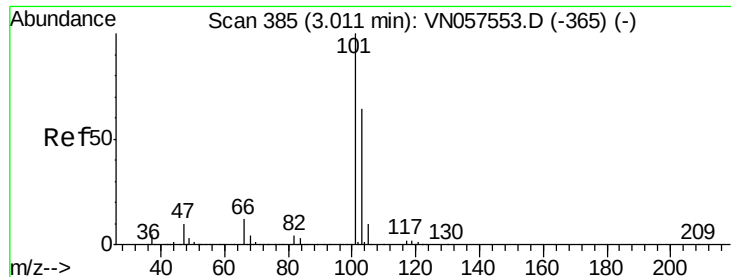
66 31.7 26.8 40.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

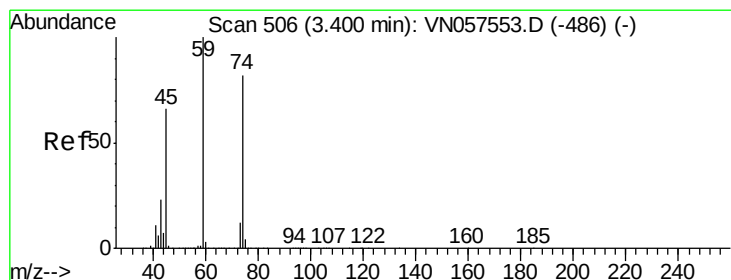
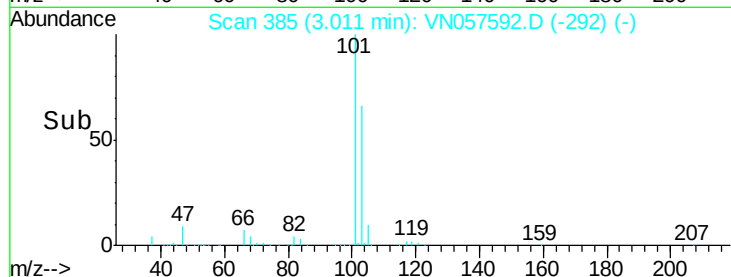
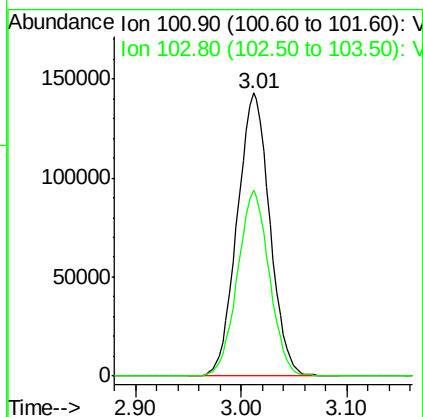
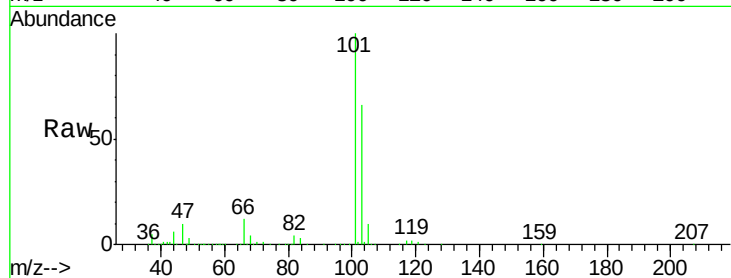
Trichlorofluoromethane
Concen: 21.938 ug/l
RT: 3.01 min Scan# 385
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

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ClientSampleId :
VN0831WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.6	78.8

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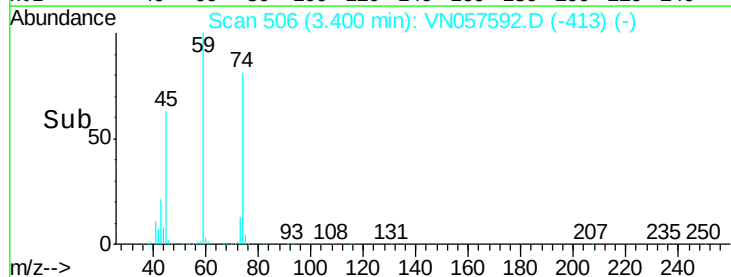
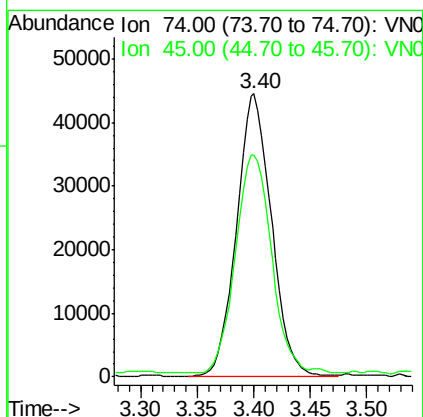
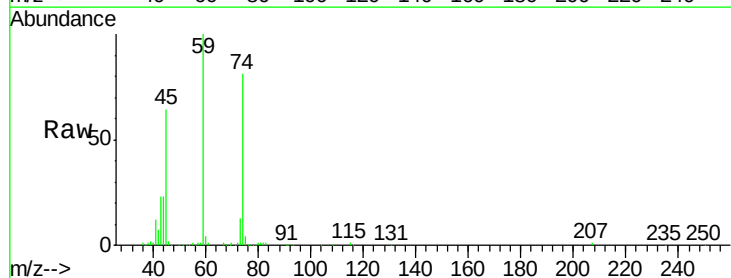
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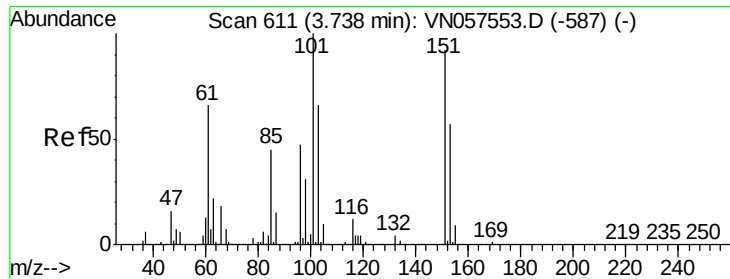


#8

Diethyl Ether
Concen: 20.680 ug/l
RT: 3.40 min Scan# 506
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
74	100		
45	78.2	57.9	173.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.106 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

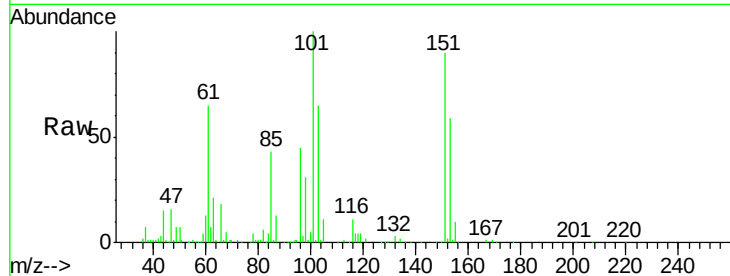
ClientSampled :

VN0831WBS01

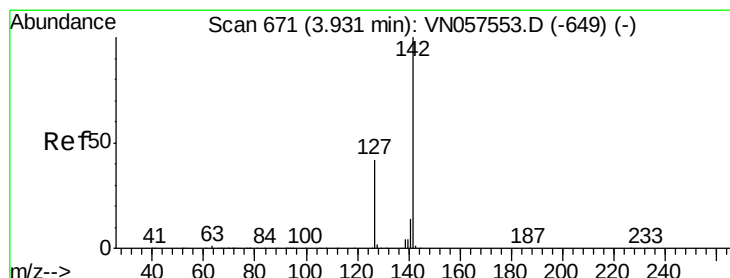
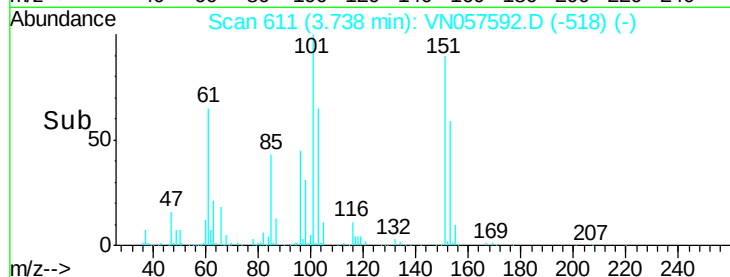
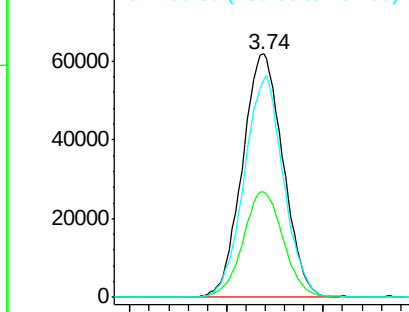
Tot Ion:	101	Resp:	180968
Ion Ratio	Lower	Upper	
101	100		
85	42.9	40.0	60.0
151	87.3	57.0	85.6#

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8/31/2019 11:28:43 AM



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



#10

Methyl Iodide

Concen: 20.778 ug/l

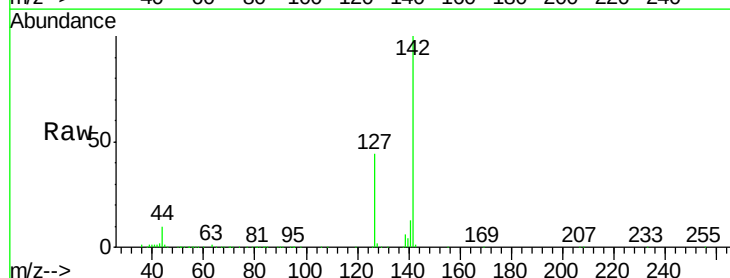
RT: 3.93 min Scan# 671

Delta R.T. 0.00 min

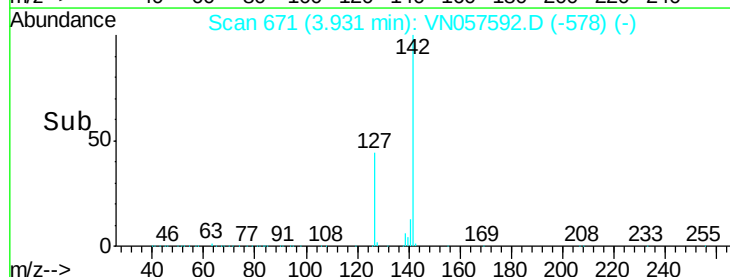
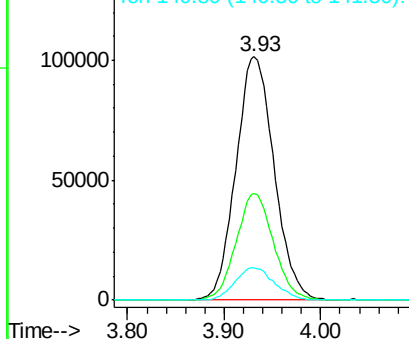
Lab File: VN057592.D

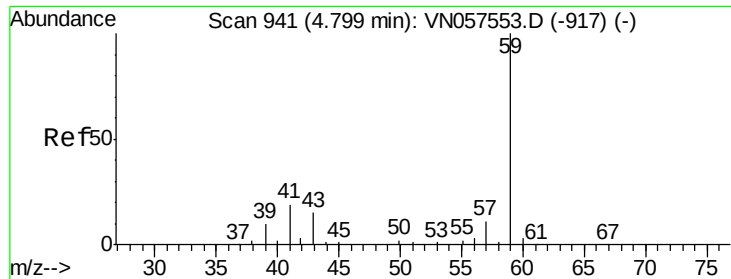
Acq: 30 Aug 2019 17:05

Tgt Ion:	142	Resp:	278439
Ion Ratio	Lower	Upper	
142	100		
127	42.8	37.8	56.8
141	13.8	11.9	17.9



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





#11

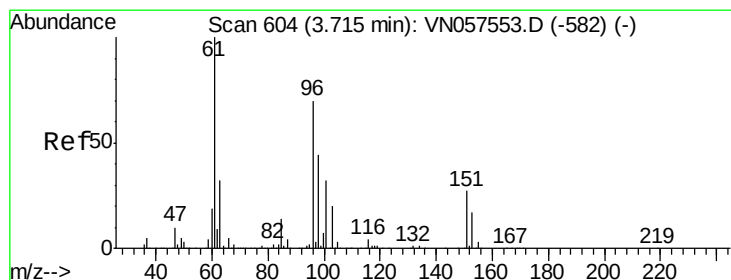
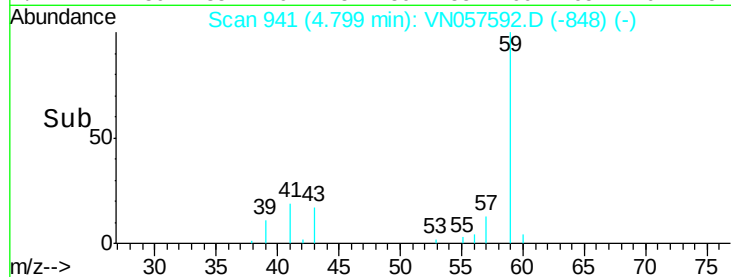
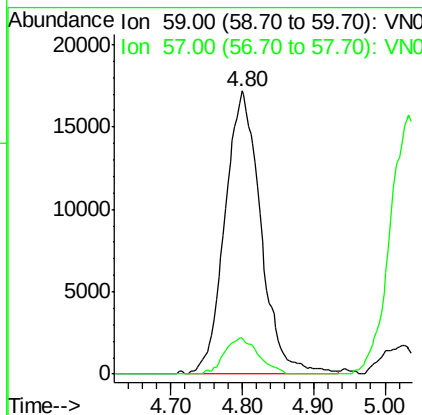
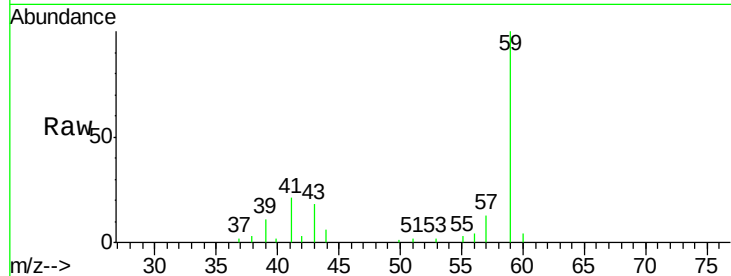
Tert butyl alcohol
Concen: 91.753 ug/l
RT: 4.80 min Scan# 941
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampled :
VN0831WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.1	9.1	13.7

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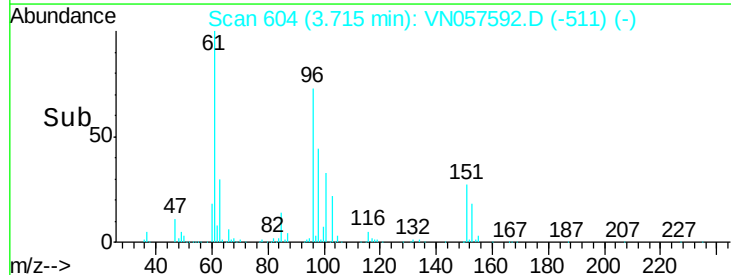
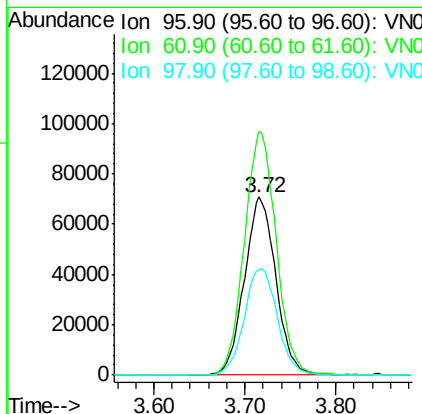
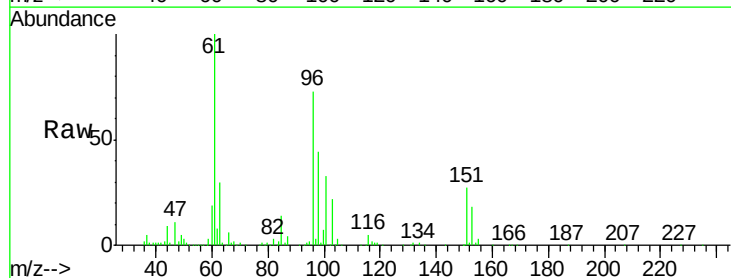
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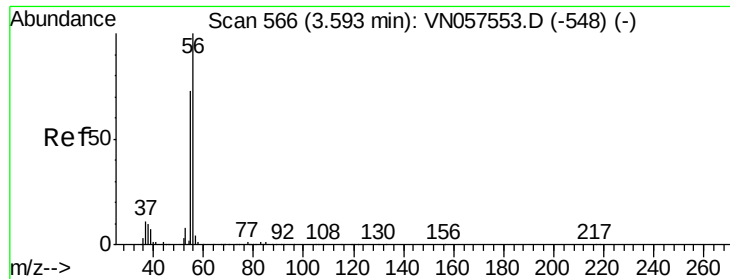


#12

1,1-Dichloroethene
Concen: 22.101 ug/l
RT: 3.72 min Scan# 604
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
96	100		
61	136.9	155.3	232.9#
98	59.6	50.2	75.2





#13

Acrolein

Concen: 92.938 ug/l

RT: 3.59 min Scan# 566

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS01

Tot Ion: 56 Resp: 52227

Ion Ratio Lower Upper

56 100

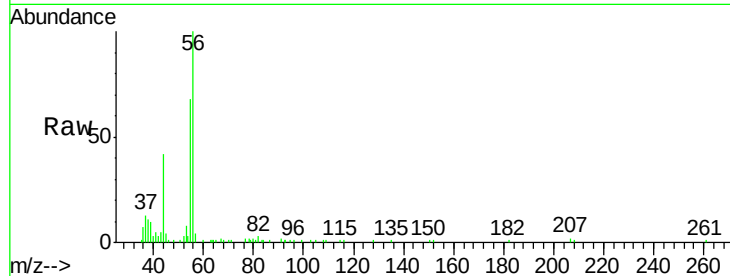
55 69.0 59.0 88.4

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

25000

20000

15000

10000

5000

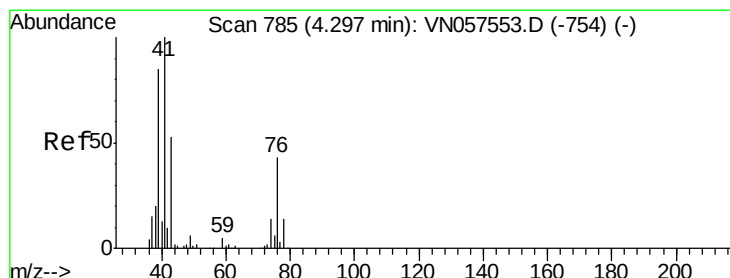
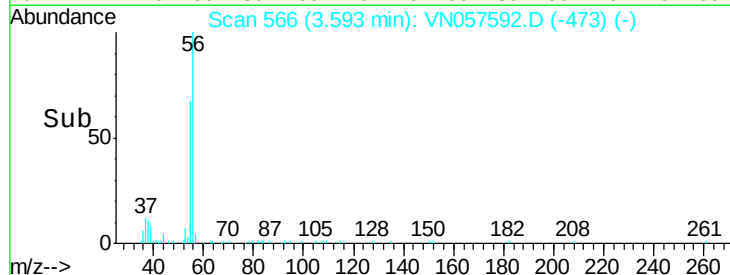
0

3.50

3.60

3.70

Time-->



#14

Allyl chloride

Concen: 19.148 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

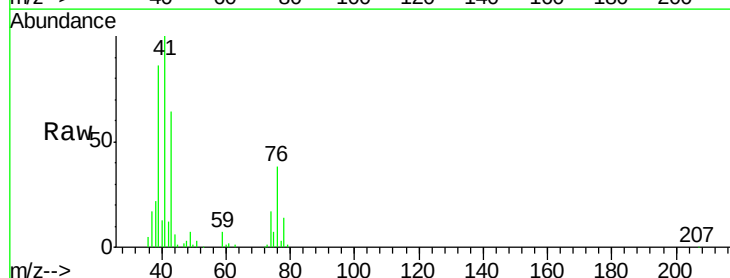
Tgt Ion: 41 Resp: 107976

Ion Ratio Lower Upper

41 100

39 87.0 57.4 86.2#

76 36.8 22.9 34.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

50000

40000

30000

20000

10000

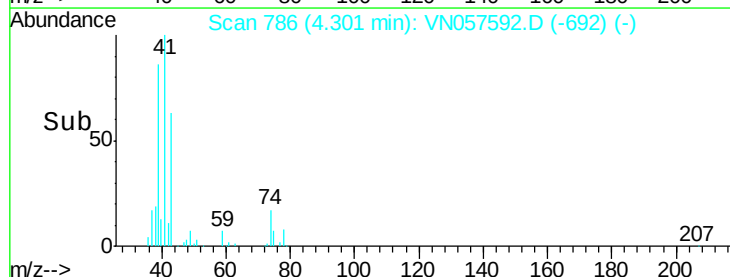
0

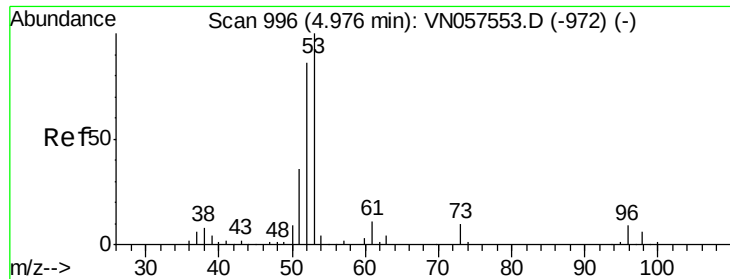
4.20

4.30

4.40

Time-->





#15

Acrylonitrile

Concen: 98.847 ug/l

RT: 4.97 min Scan# 994

Delta R.T. -0.01 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

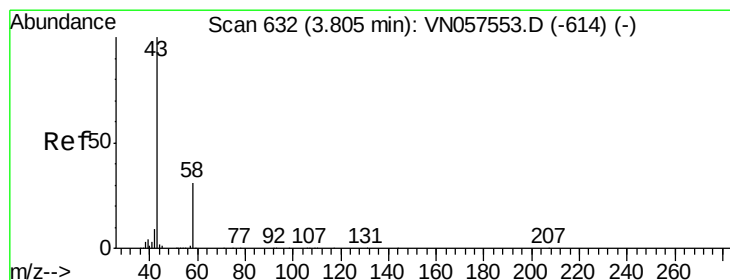
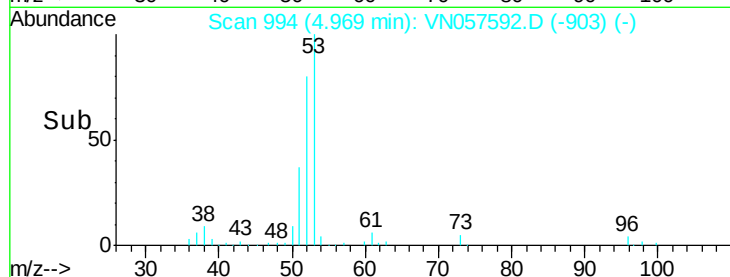
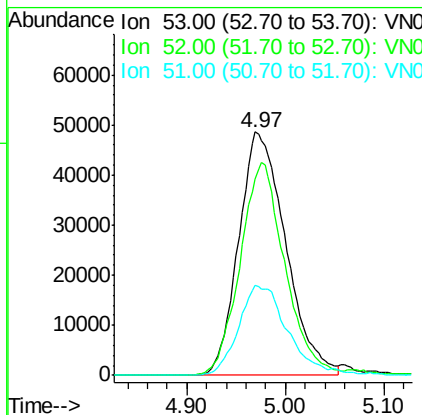
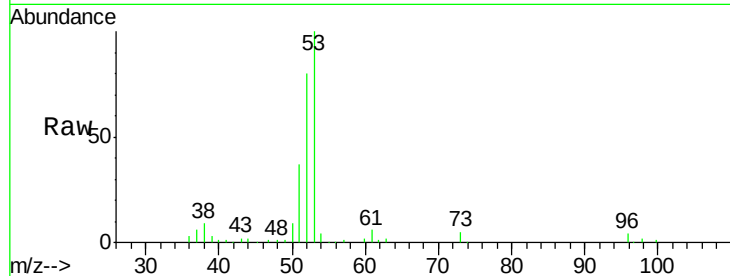
ClientSampleId :

VN0831WBS01

Tot Ion:	53	Resp:	160623
Ion Ratio	Lower	Upper	
53	100		
52	83.0	67.0	100.6
51	38.4	29.9	44.9

Manual Integrations
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#16

Acetone

Concen: 105.508 ug/l

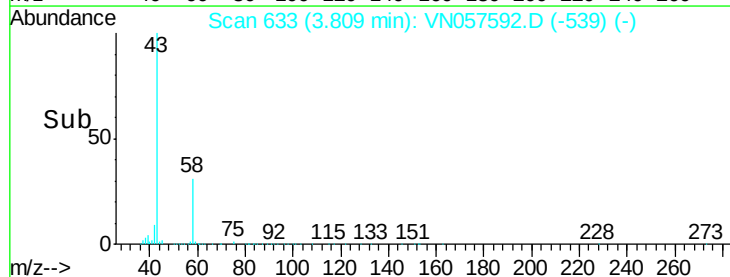
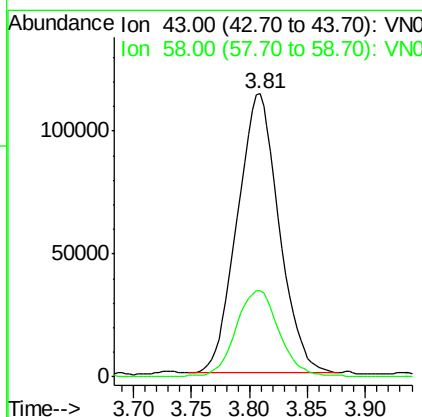
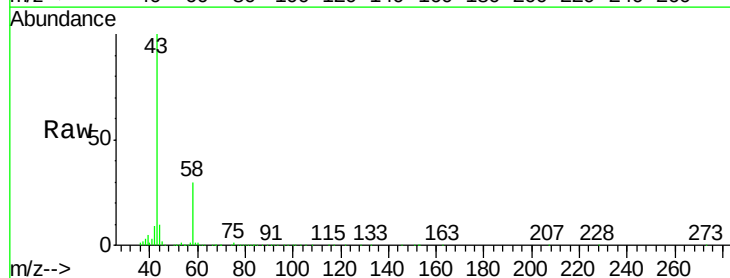
RT: 3.81 min Scan# 633

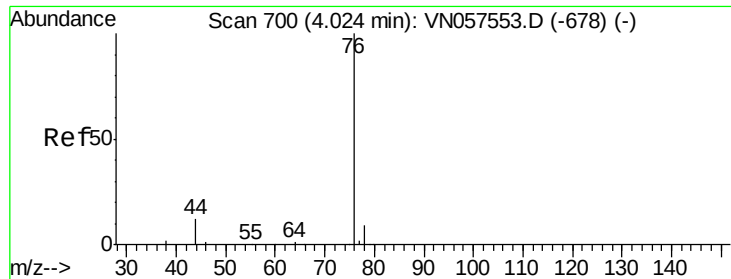
Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Tgt Ion:	43	Resp:	283827
Ion Ratio	Lower	Upper	
43	100		
58	30.4	22.1	33.1





#17

Carbon Disulfide

Concen: 16.376 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0831WBS01

Tot Ion: 76 Resp: 172468

Ion Ratio Lower Upper

76 100

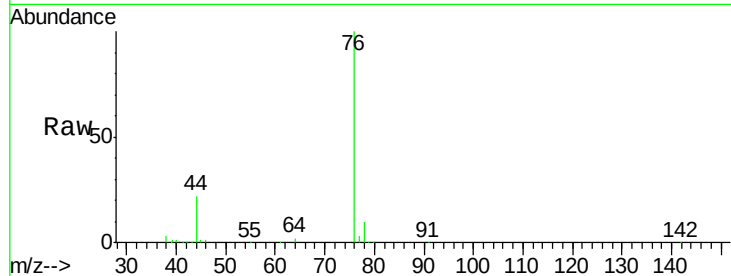
78 9.6 7.1 10.7

Manual Integrations

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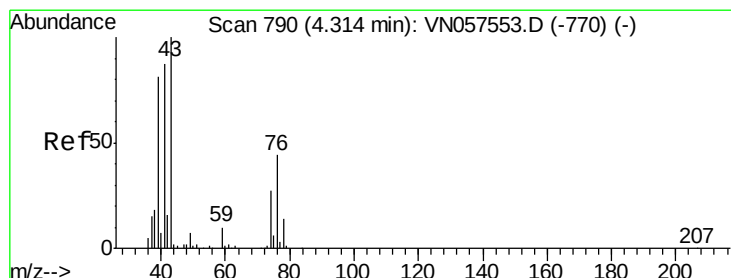
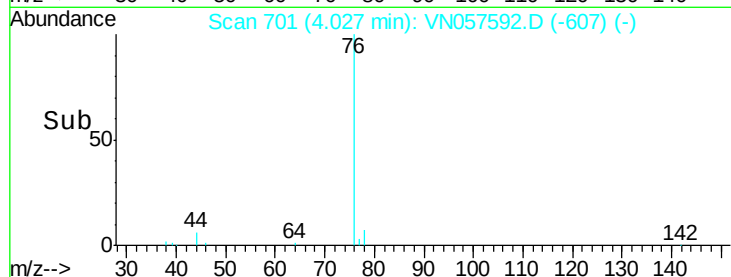
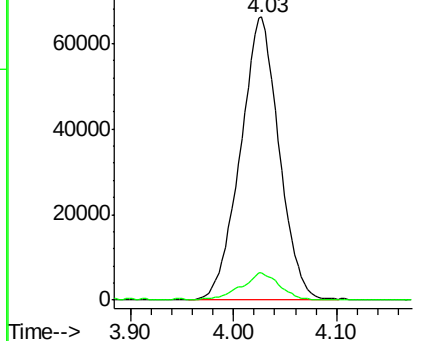
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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 21.779 ug/l

RT: 4.31 min Scan# 789

Delta R.T. -0.00 min

Lab File: VN057592.D

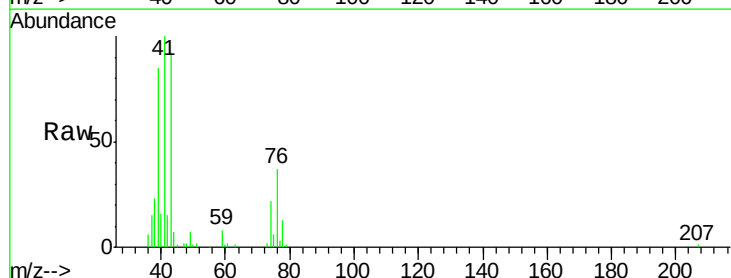
Acq: 30 Aug 2019 17:05

Tgt Ion: 43 Resp: 85923

Ion Ratio Lower Upper

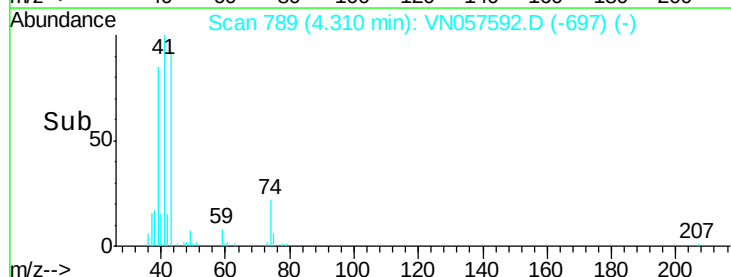
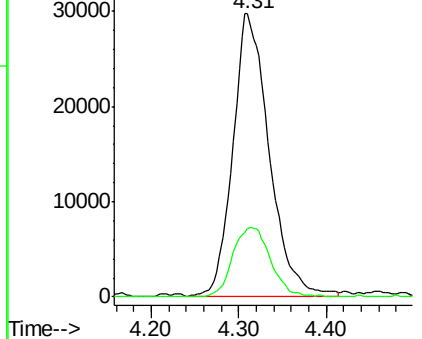
43 100

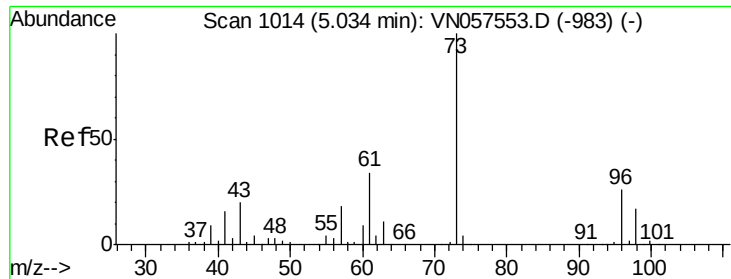
74 25.4 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





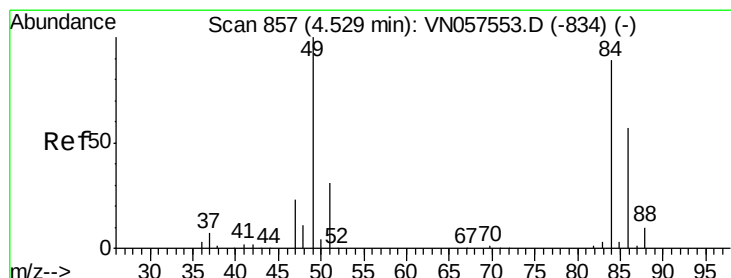
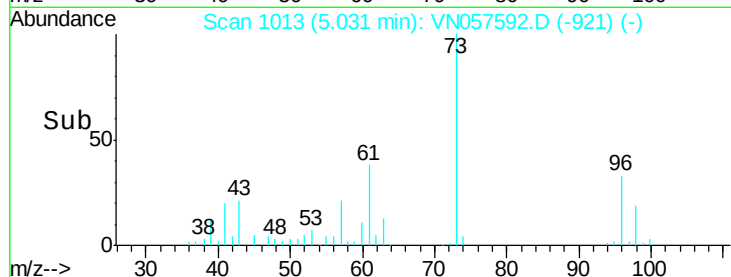
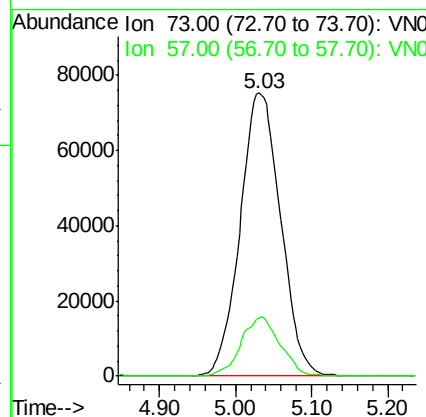
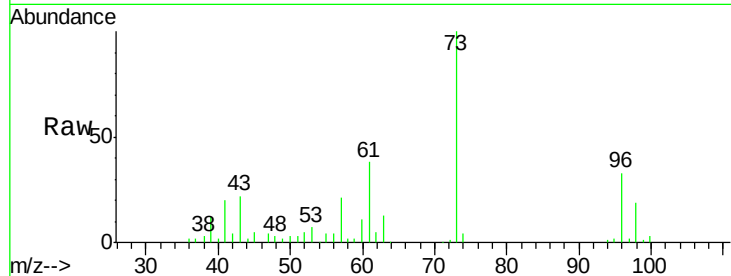
#19
Methyl tert-butyl Ether
Concen: 18.944 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS01

Tot Ion: 73 Resp: 278005
Ion Ratio Lower Upper
73 100
57 20.6 19.1 28.7

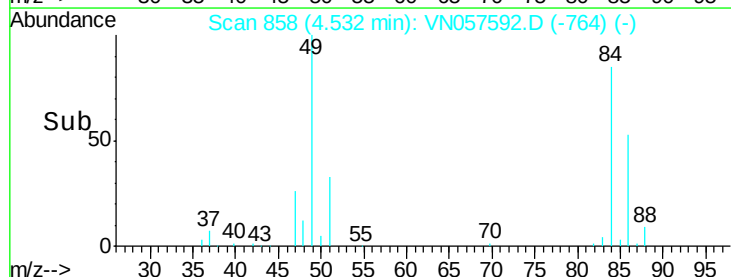
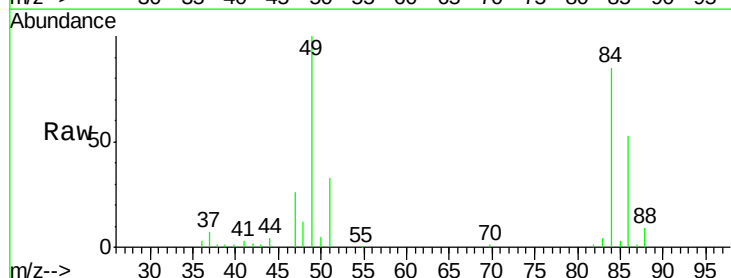
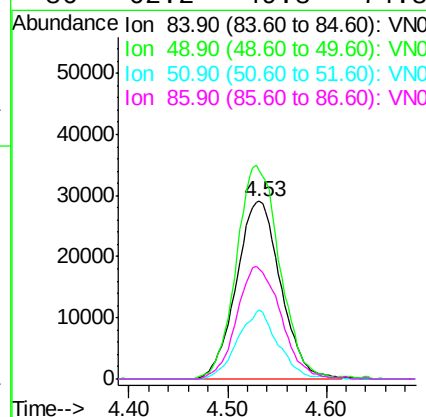
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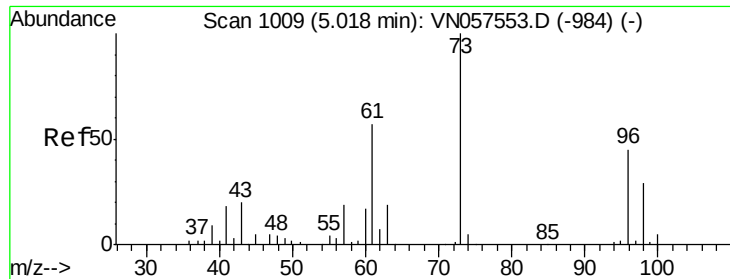
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#20
Methylene Chloride
Concen: 18.196 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion: 84 Resp: 90680
Ion Ratio Lower Upper
84 100
49 117.4 117.0 175.4
51 39.0 35.5 53.3
86 62.2 49.8 74.8





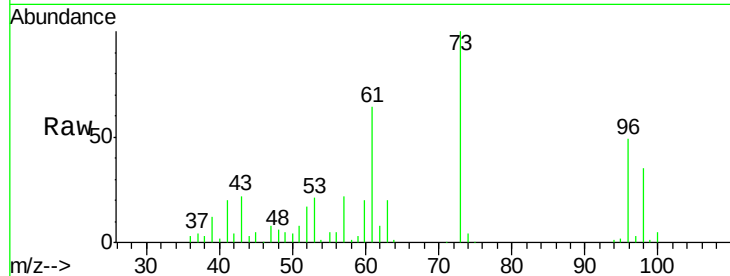
#21
trans-1,2-Dichloroethene
Concen: 18.592 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampled :
VN0831WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.9	127.9	191.9
98	71.3	50.6	76.0

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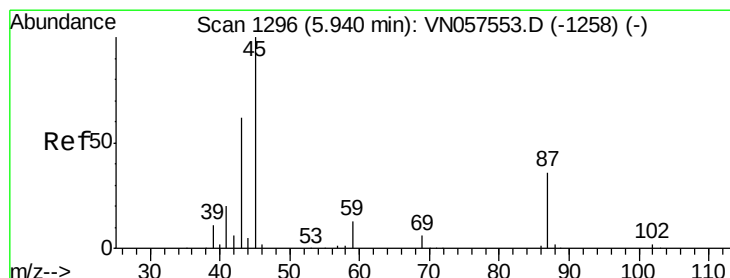
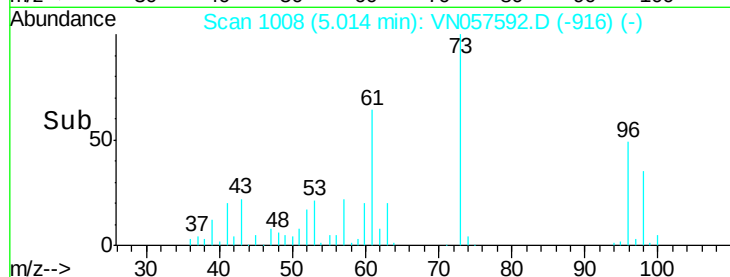
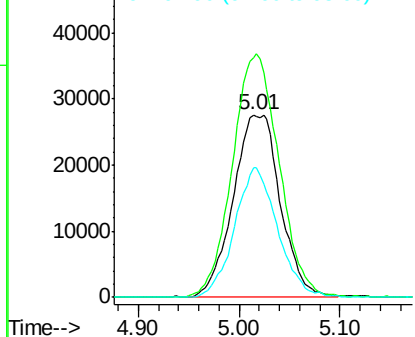


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22
Diisopropyl ether
Concen: 20.644 ug/l
RT: 5.94 min Scan# 1296
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.9	46.9	70.3
87	31.3	19.3	28.9
59	12.3	8.7	13.1

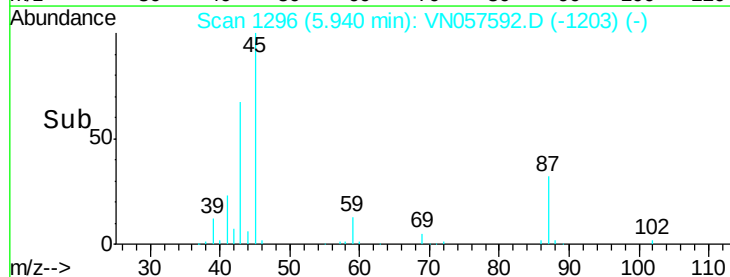
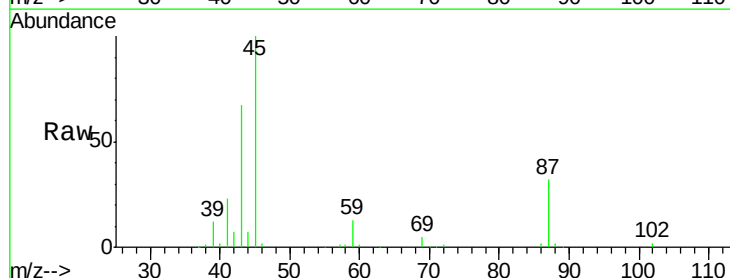
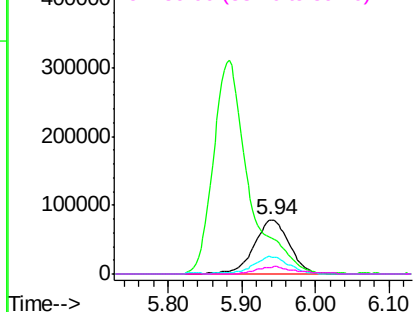
Abundance

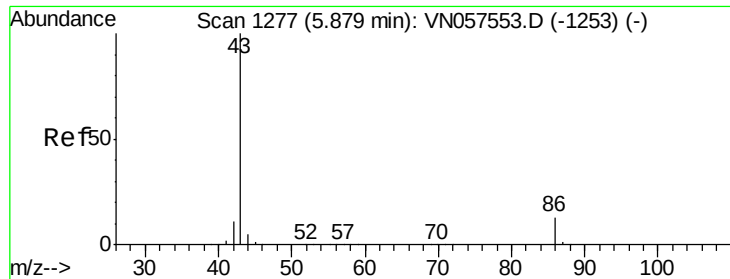
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 104.632 ug/l

RT: 5.88 min Scan# 1278

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0831WBS01

Tot Ion: 43 Resp: 1033565

Ion Ratio Lower Upper

43 100

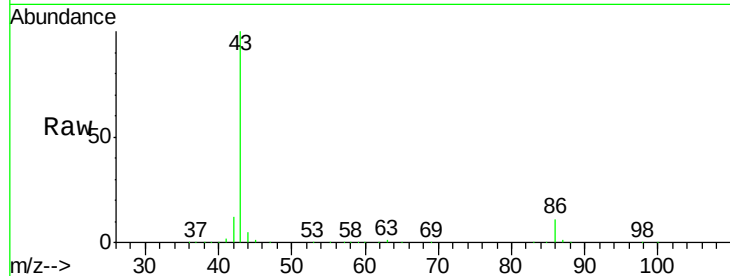
86 11.4 6.7 10.1#

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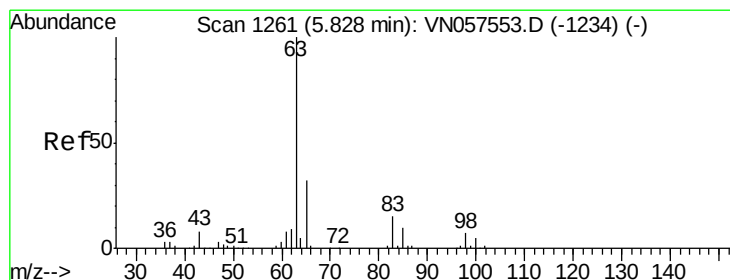
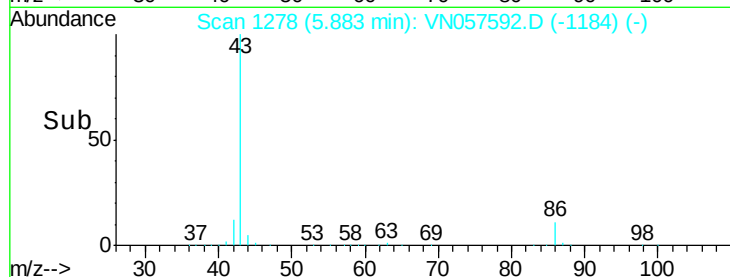
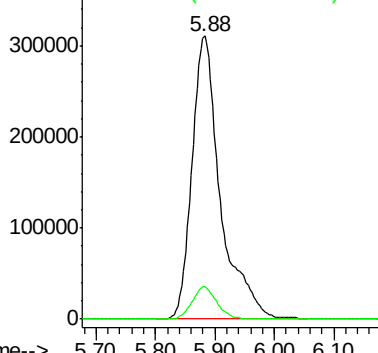
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 19.939 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

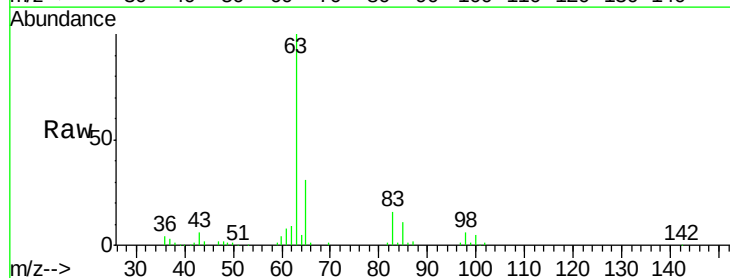
Tgt Ion: 63 Resp: 165970

Ion Ratio Lower Upper

63 100

98 6.2 2.9 8.6

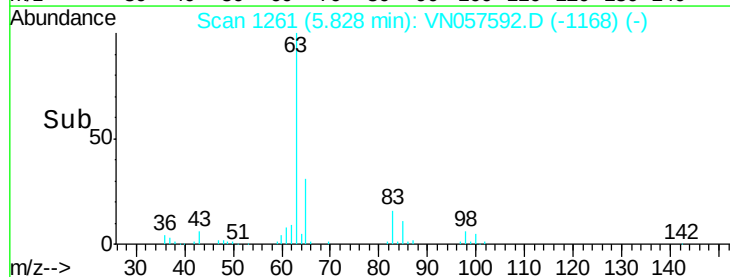
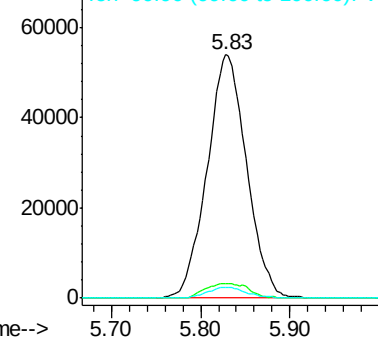
100 4.6 2.1 6.3

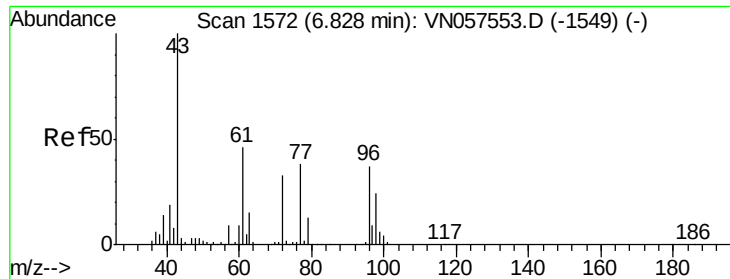


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 104.357 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS01

Tot Ion: 43 Resp: 221590

Ion Ratio Lower Upper

43 100

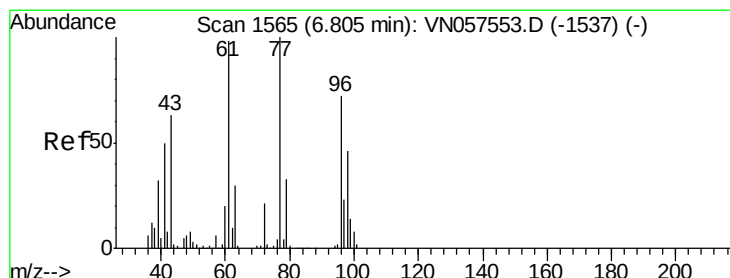
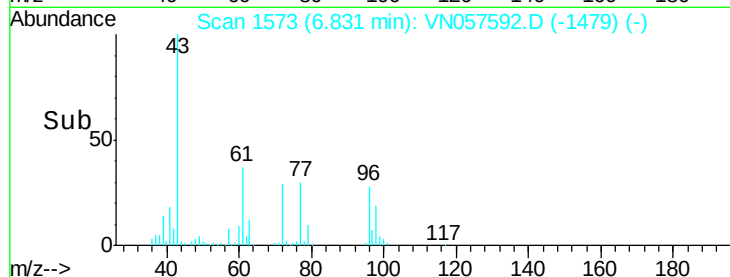
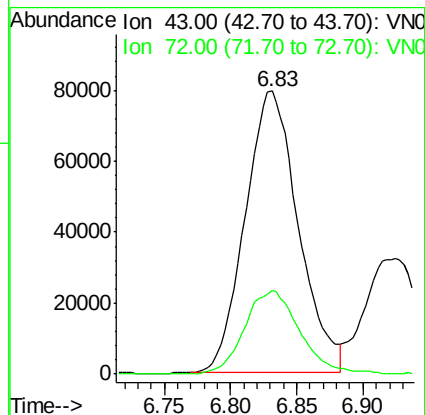
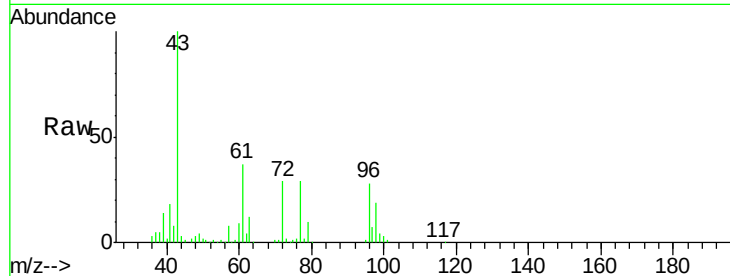
72 29.6 17.8 26.8#

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#26

2,2-Dichloropropane

Concen: 17.862 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN057592.D

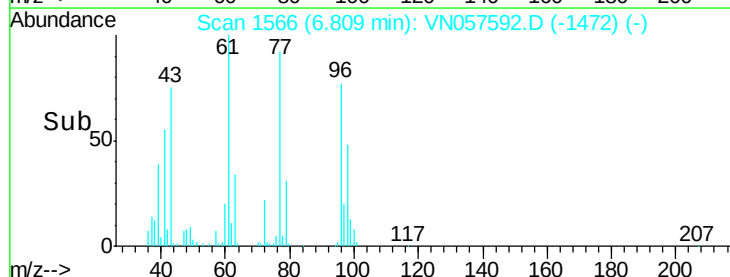
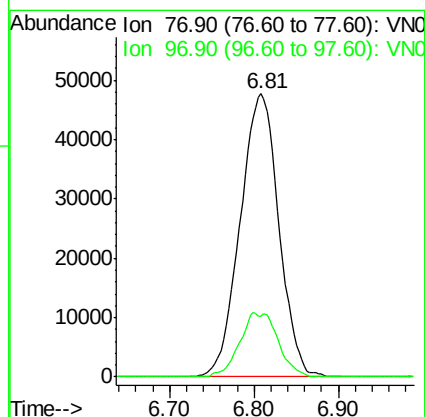
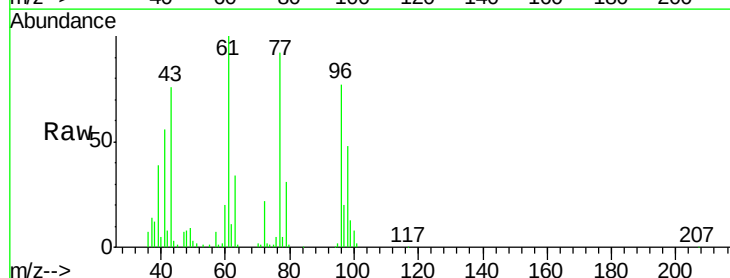
Acq: 30 Aug 2019 17:05

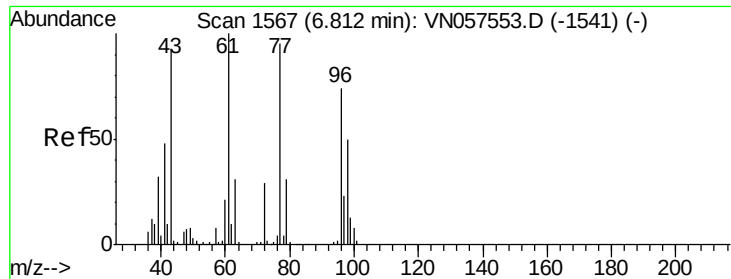
Tgt Ion: 77 Resp: 151805

Ion Ratio Lower Upper

77 100

97 11.6 10.8 32.3





#27

cis-1,2-Dichloroethene

Concen: 19.118 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

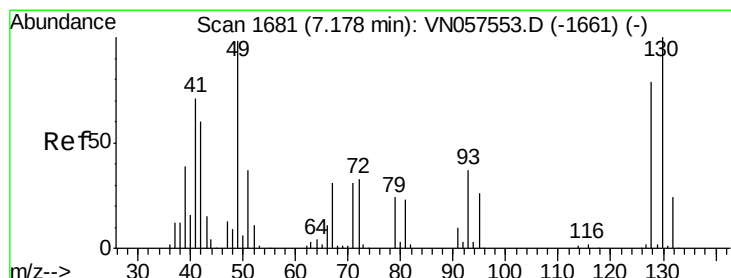
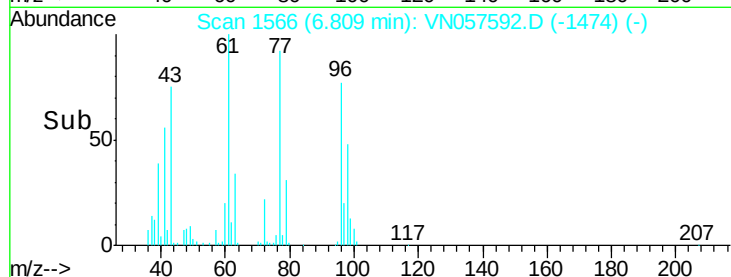
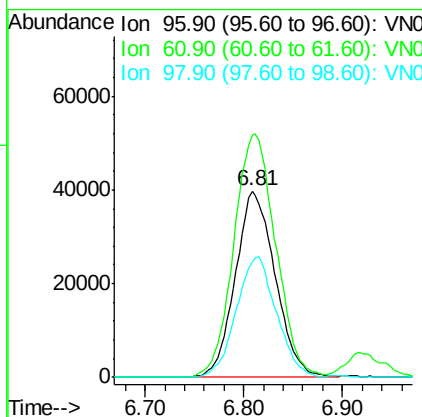
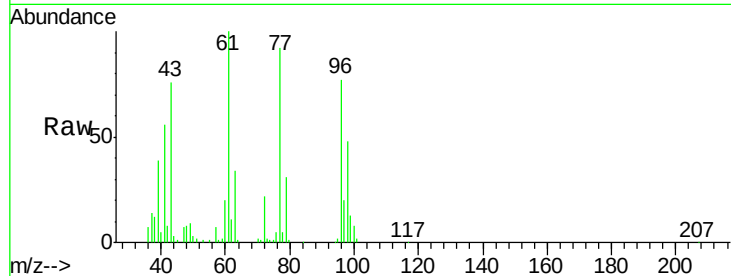
ClientSampleId :

VN0831WBS01

Tot Ion:	96	Resp:	111580
Ion	Ratio	Lower	Upper
96	100		
61	136.7	0.0	334.8
98	65.1	0.0	127.4

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#28

Bromochloromethane

Concen: 23.136 ug/l

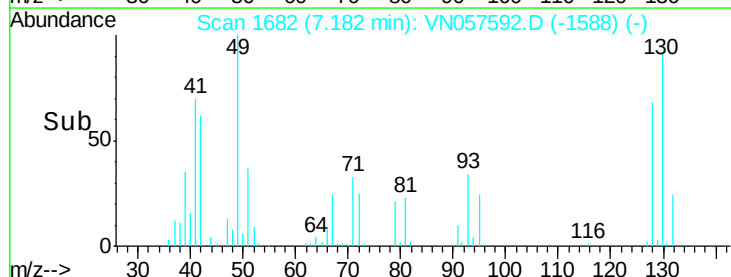
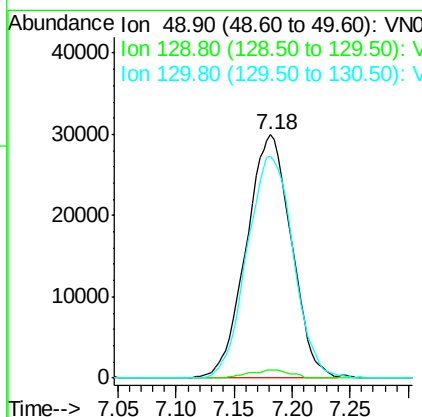
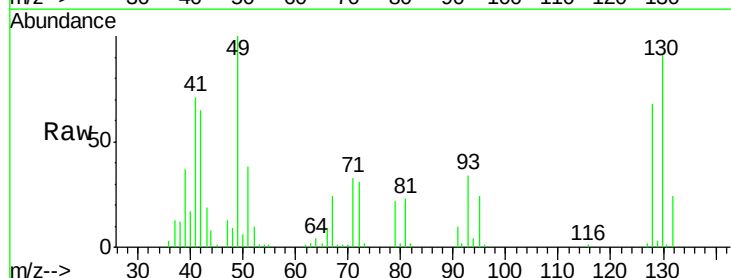
RT: 7.18 min Scan# 1682

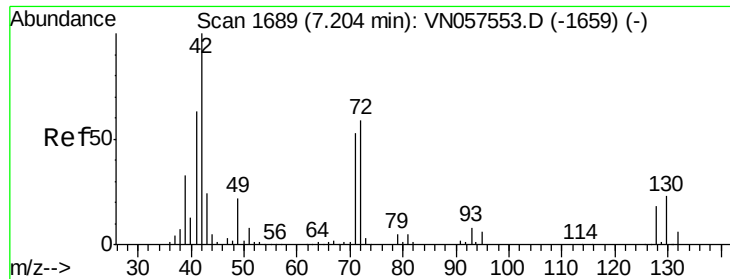
Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Tgt Ion:	49	Resp:	80952
Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	3.6
130	93.5	48.6	72.8#





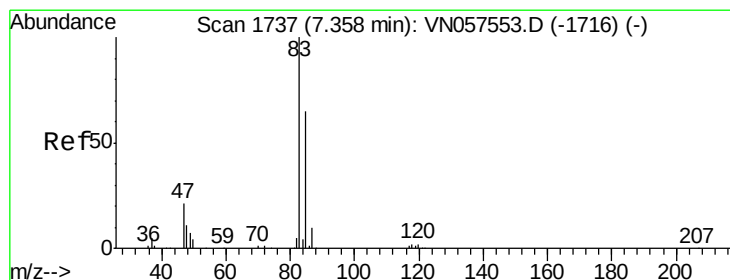
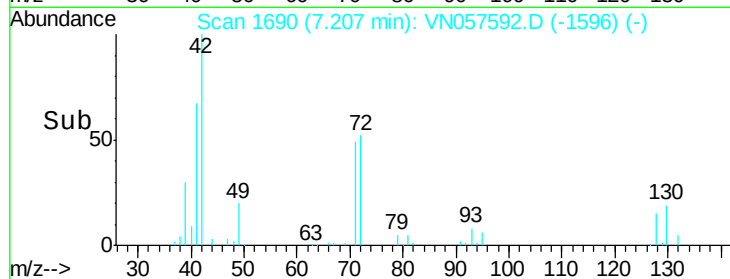
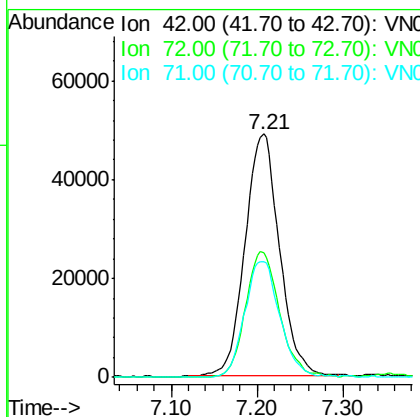
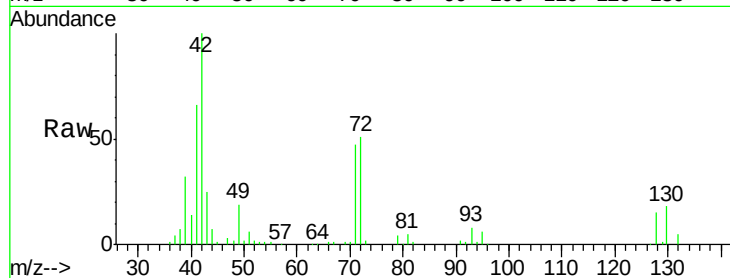
#29
Tetrahydrofuran
Concen: 103.016 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	51.5	30.1	45.1#
71	48.5	28.8	43.2#

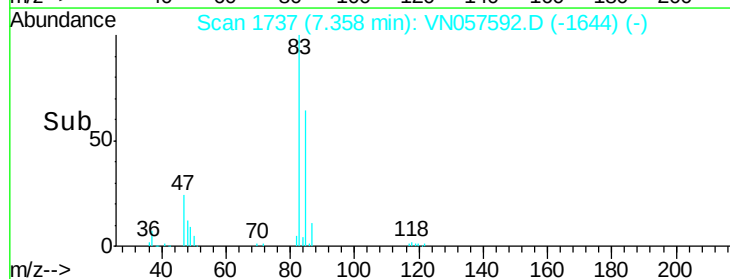
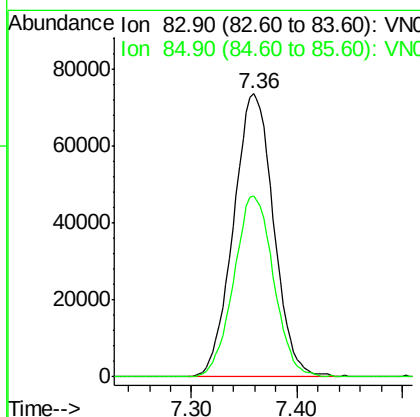
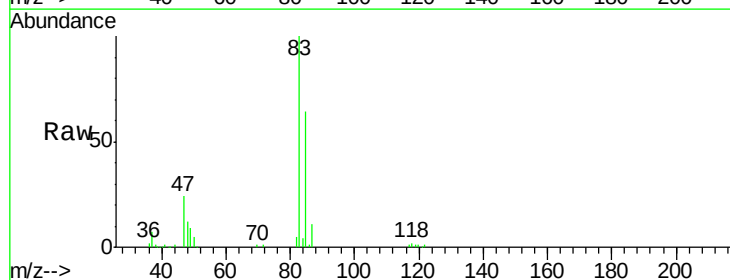
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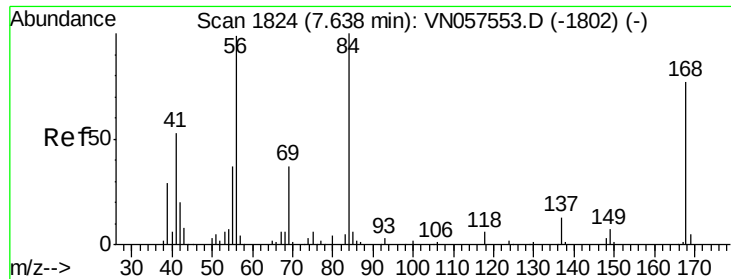
MMDadoda
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#30
Chloroform
Concen: 18.833 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.9	77.9





#31

Cyclohexane

Concen: 19.523 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS01

Tot Ion: 56 Resp: 150917

Ion Ratio Lower Upper

56 100

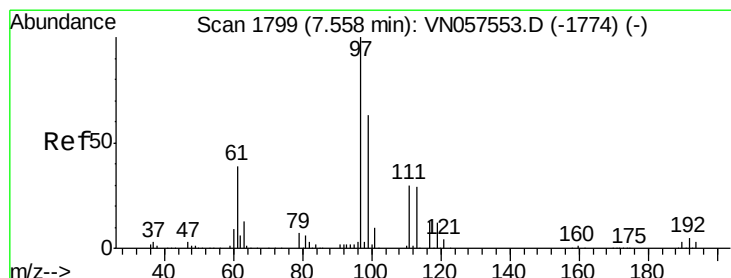
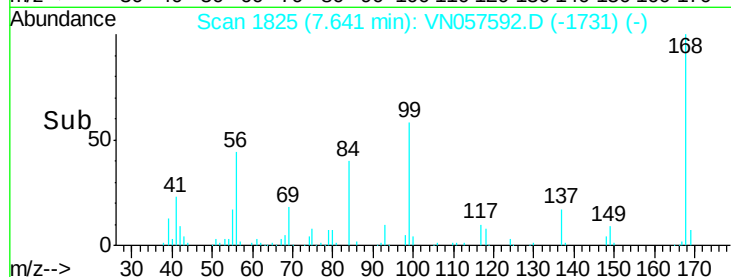
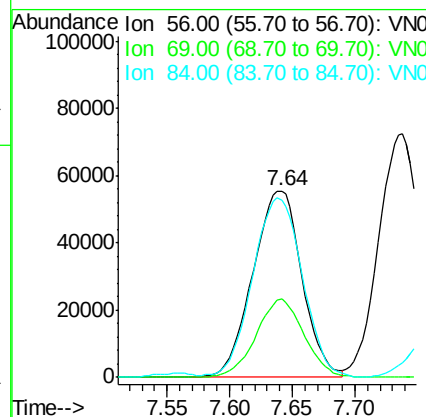
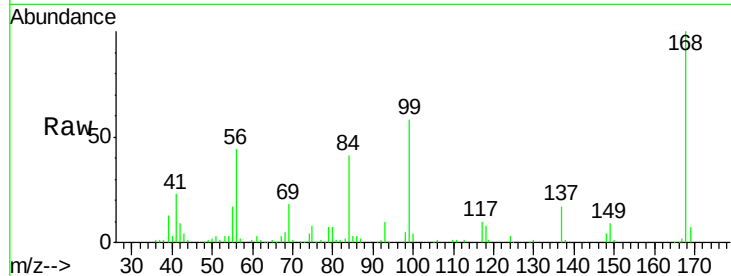
69 41.7 25.0 37.6#

84 93.5 62.5 93.7

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.129 ug/l

RT: 7.56 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

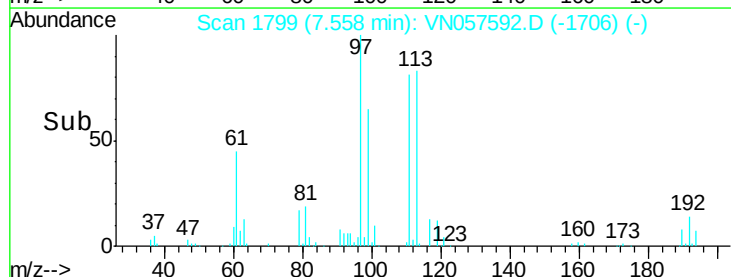
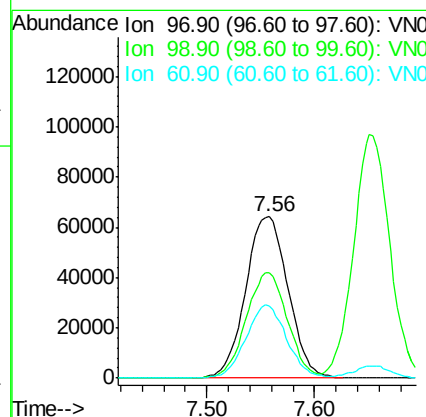
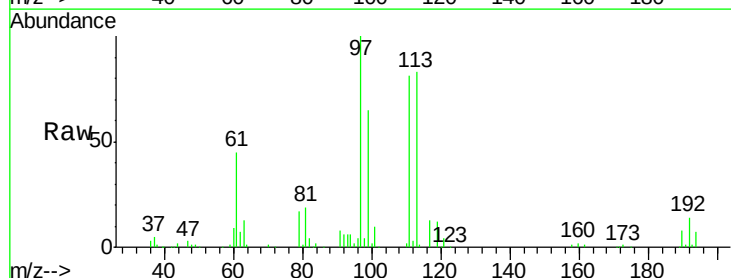
Tgt Ion: 97 Resp: 175647

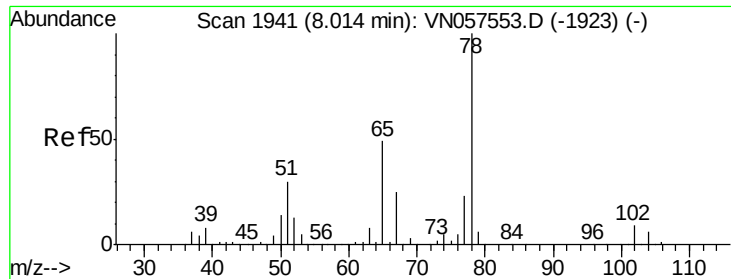
Ion Ratio Lower Upper

97 100

99 63.6 51.0 76.6

61 43.6 39.8 59.6





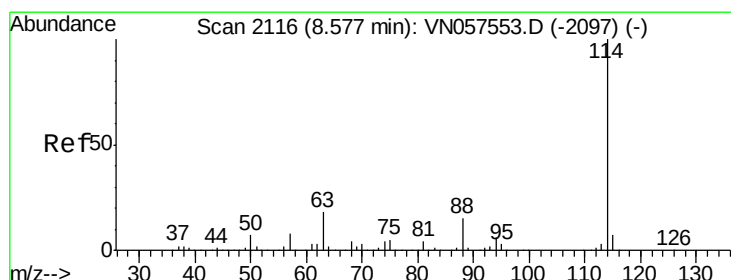
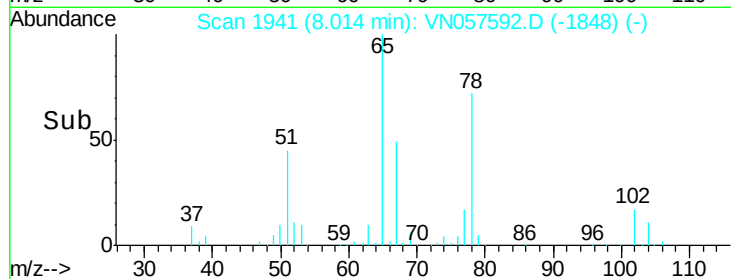
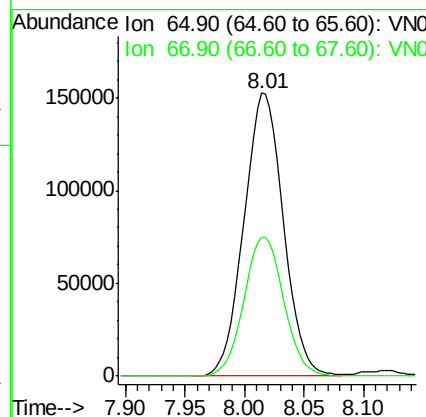
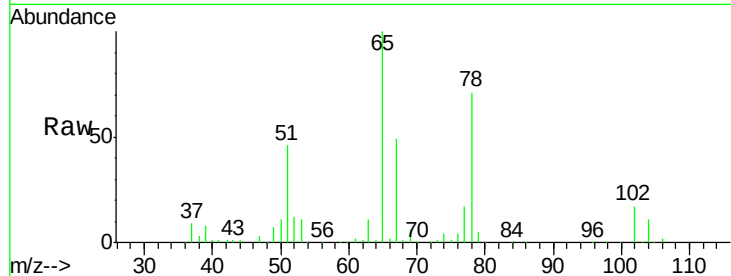
#33
 1,2-Dichloroethane-d4
 Concen: 52.728 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	49.4	0.0	103.8	

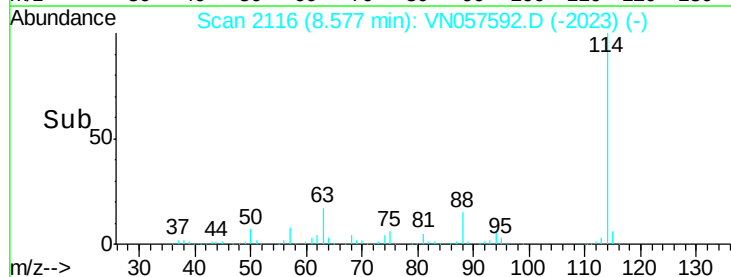
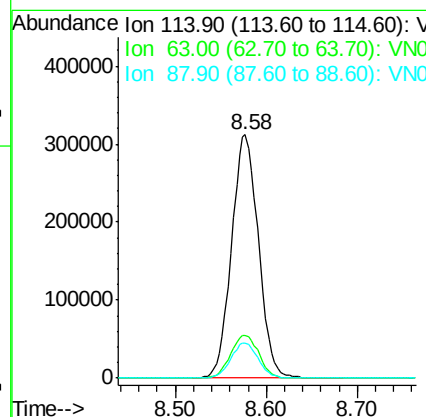
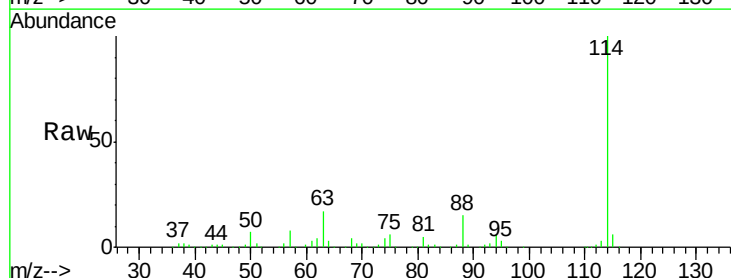
Manual Integrations
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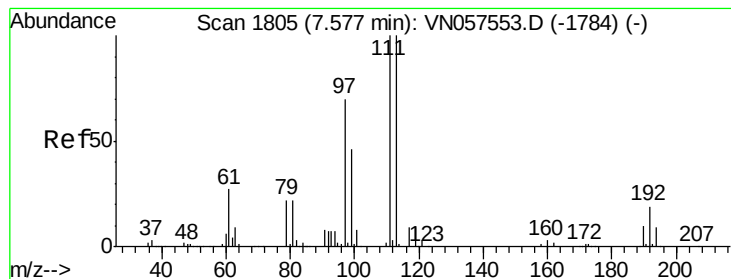
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	17.4	0.0	50.2	
88	14.5	0.0	34.6	





#35

Dibromofluoromethane

Concen: 48.387 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

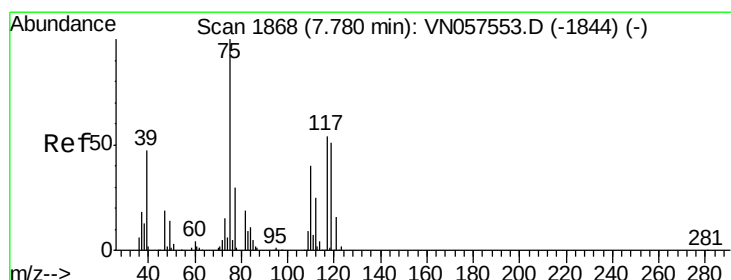
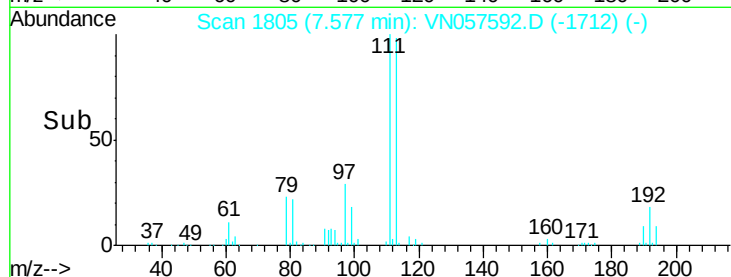
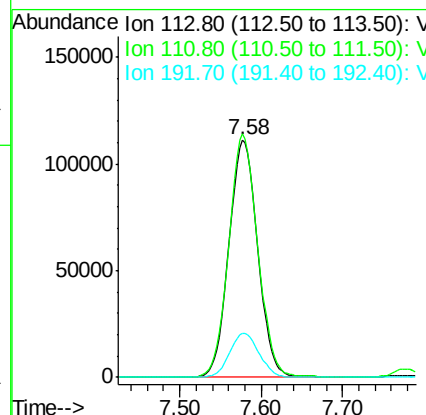
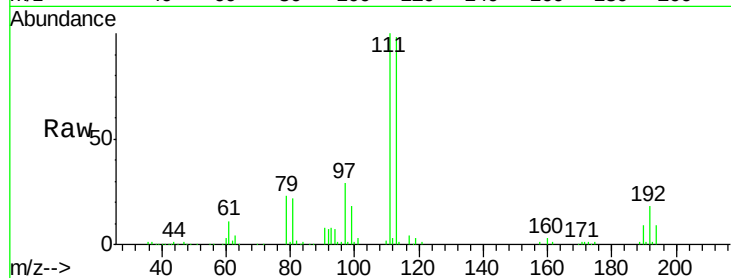
ClientSampled :

VN0831WBS01

Tot Ion:	113	Resp:	276926
Ion Ratio	Lower	Upper	
113	100		
111	102.5	83.8	125.6
192	18.9	13.5	20.3

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 19.146 ug/l

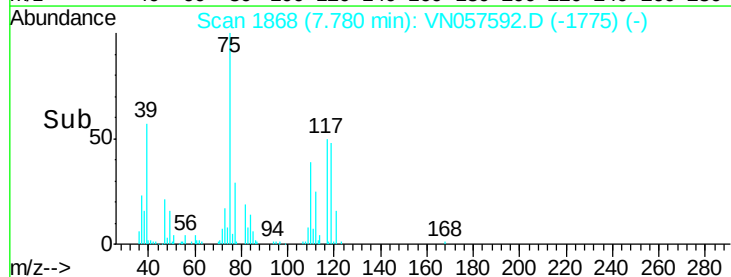
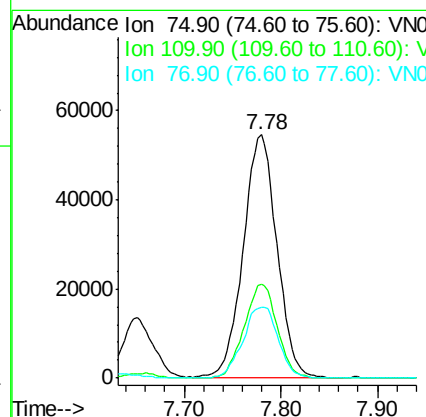
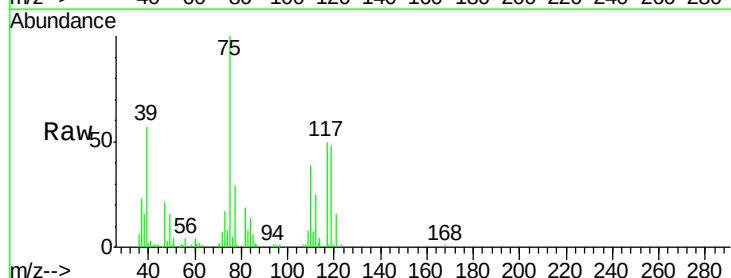
RT: 7.78 min Scan# 1868

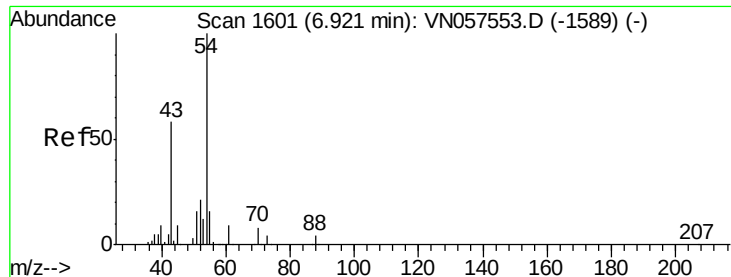
Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Tgt Ion:	75	Resp:	132617
Ion Ratio	Lower	Upper	
75	100		
110	37.6	16.1	48.3
77	30.4	24.8	37.2





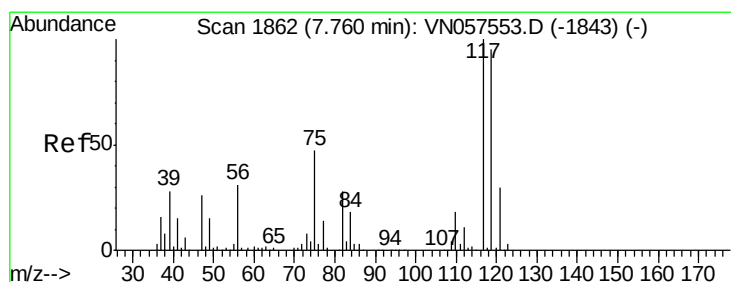
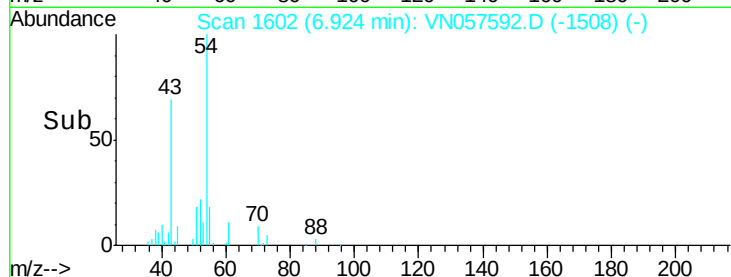
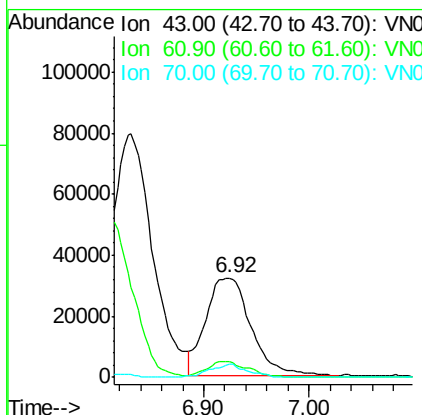
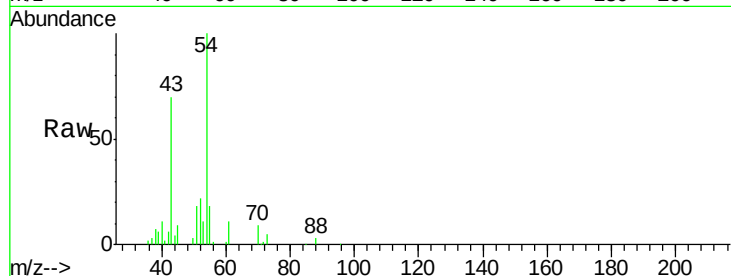
#37
Ethyl Acetate
Concen: 20.756 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampleID :
VN0831WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.8	9.9	14.9
70	11.3	7.0	10.6

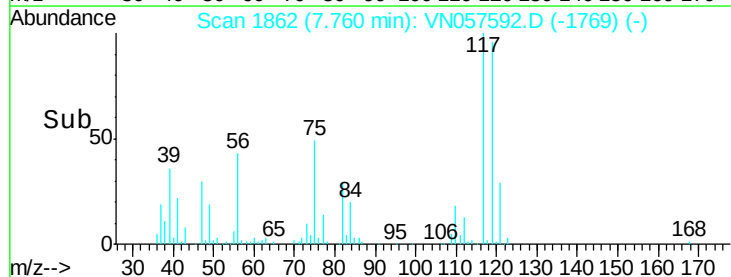
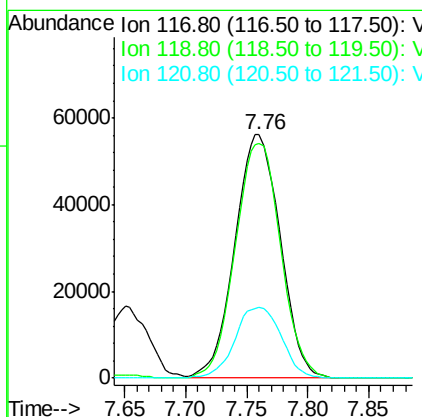
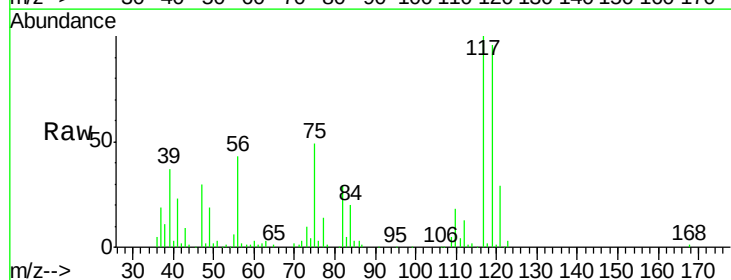
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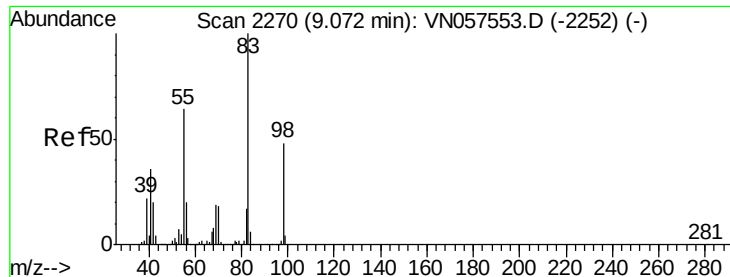
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#38
Carbon Tetrachloride
Concen: 17.862 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.3	76.2	114.4
121	28.9	23.8	35.6





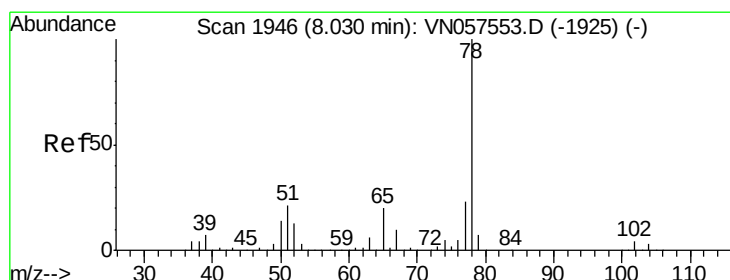
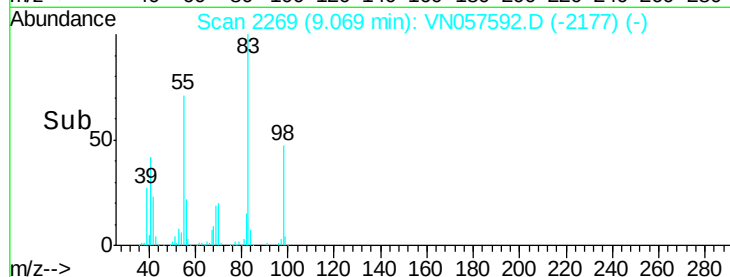
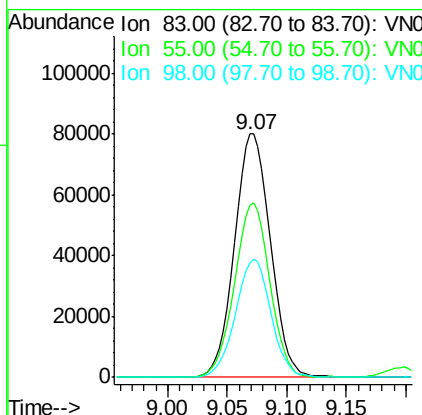
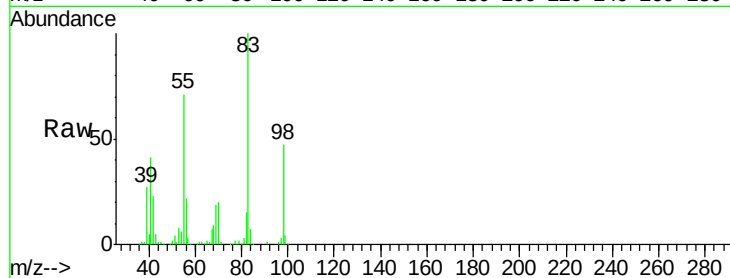
#39
Methylvlcyclohexane
Concen: 19.056 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampled :
VN0831WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	70.6	68.6	102.8
98	46.8	36.6	54.8

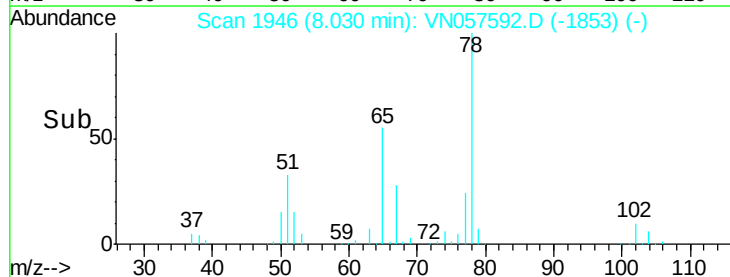
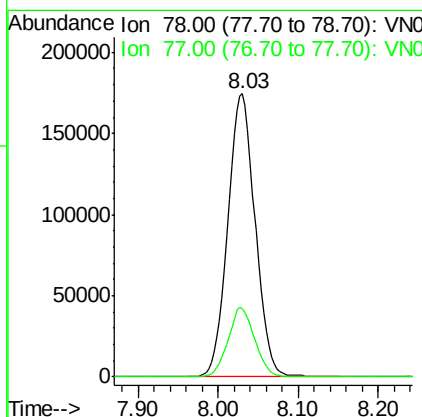
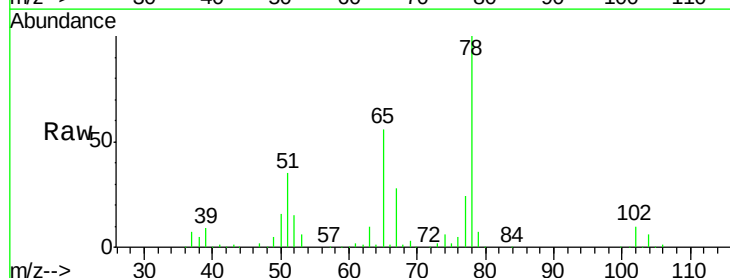
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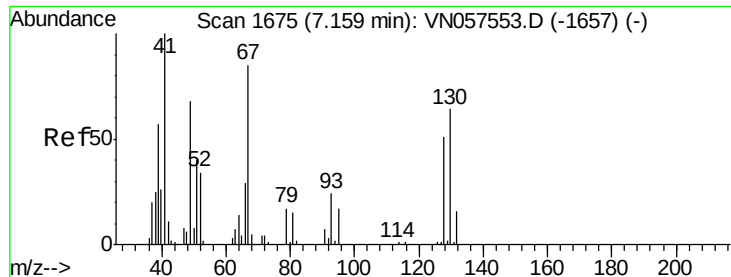
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#40
Benzene
Concen: 19.158 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.5	27.7





#41

Methacrylonitrile

Concen: 22.992 ug/l

RT: 7.17 min Scan# 1677

Delta R.T. 0.01 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

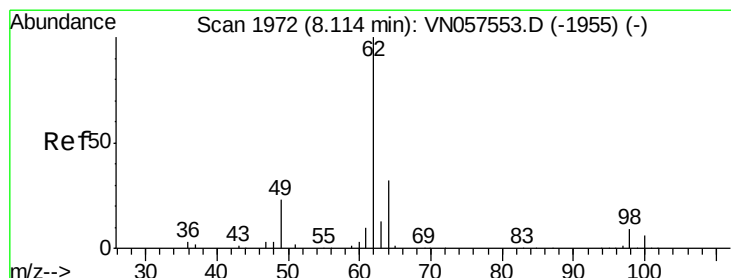
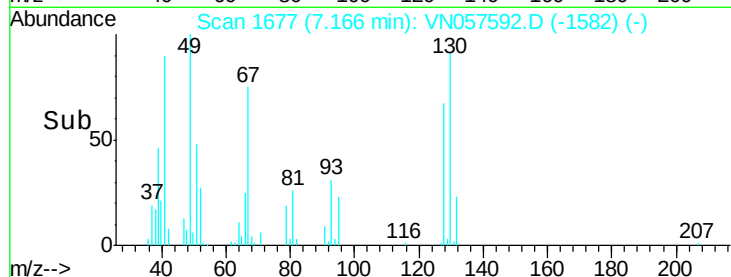
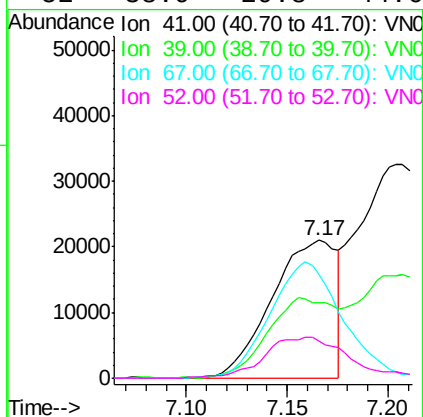
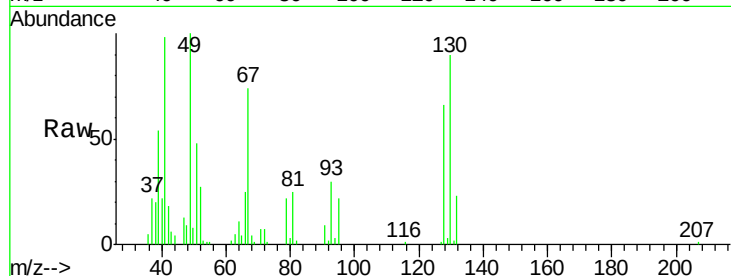
ClientSampled :

VN0831WBS01

Tot Ion	41	Resp	46803
Ion	Ratio	Lower	Upper
41	100		
39	59.3	53.6	80.4
67	94.5	65.4	98.2
52	38.9	29.8	44.6

Manual Integrations
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8/31/2019 11:28:43 AM



#42

1,2-Dichloroethane

Concen: 20.265 ug/l

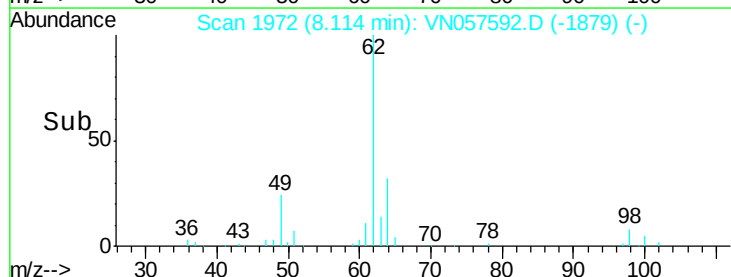
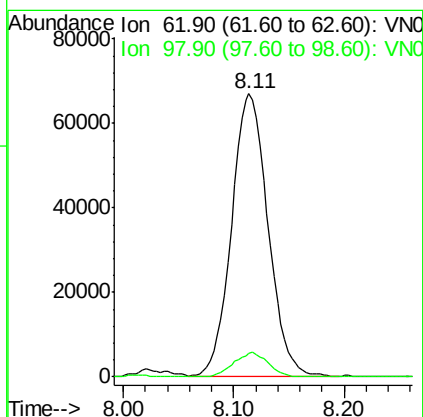
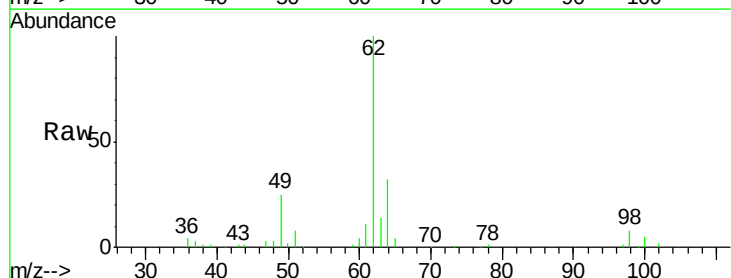
RT: 8.11 min Scan# 1972

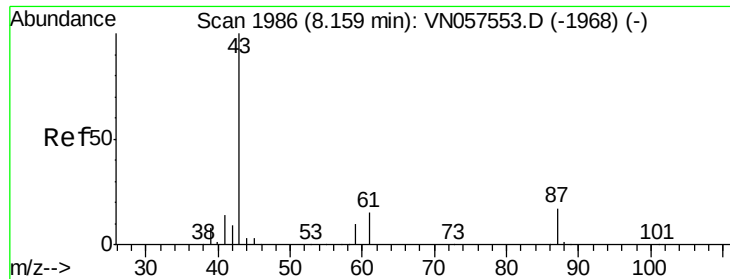
Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Tgt Ion	62	Resp	153000
Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	15.4





#43

Isopropyl Acetate

Concen: 19.767 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

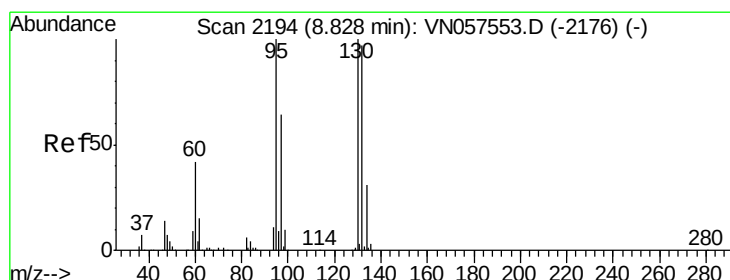
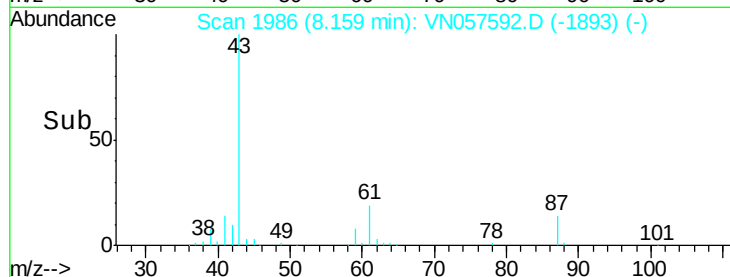
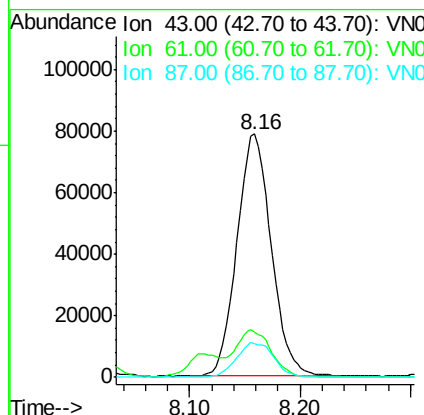
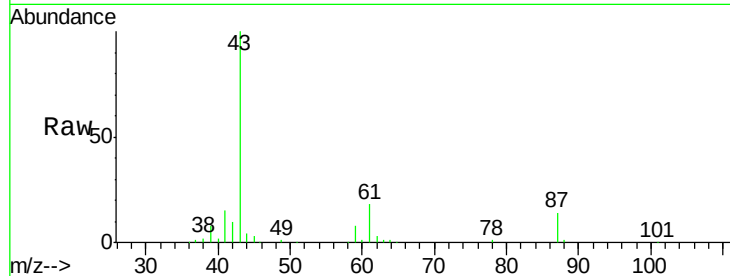
ClientSampleId :

VN0831WBS01

Tot Ion:	43	Resp:	169328
Ion	Ratio	Lower	Upper
43	100		
61	20.1	14.5	21.7
87	15.4	8.6	12.8#

Manual Integrations
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8/31/2019 11:28:43 AM



#44

Trichloroethene

Concen: 19.473 ug/l

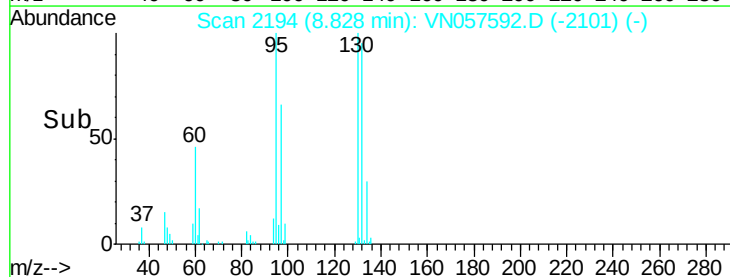
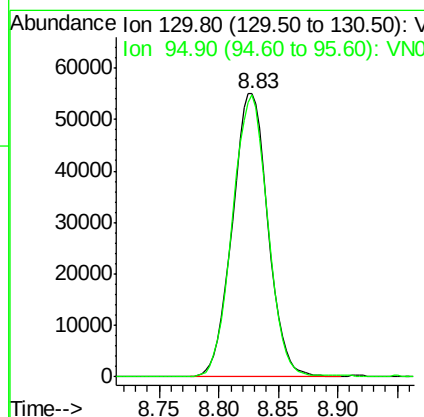
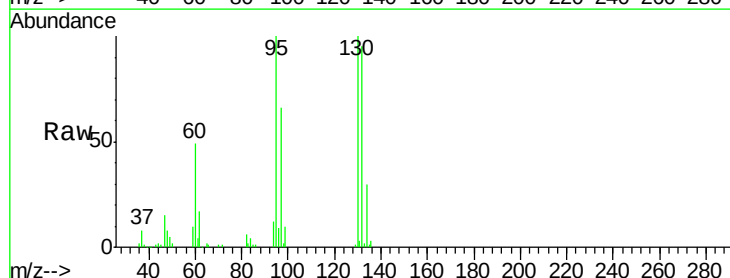
RT: 8.83 min Scan# 2194

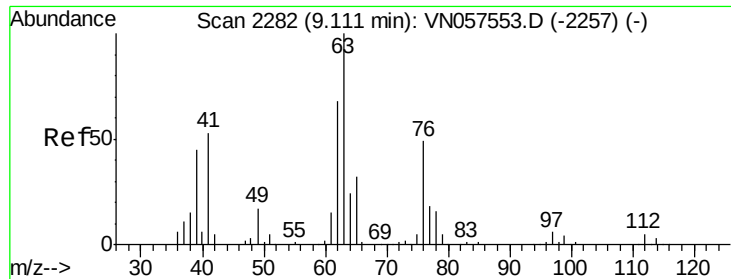
Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Tgt Ion:	130	Resp:	114065
Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	231.6





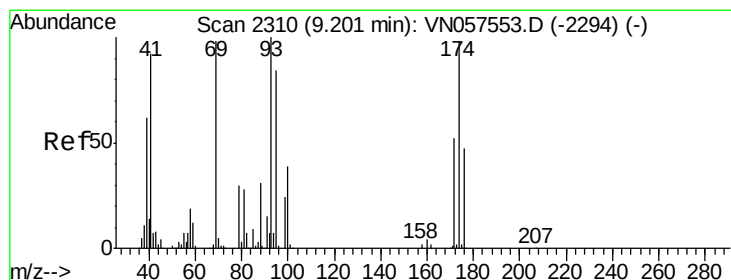
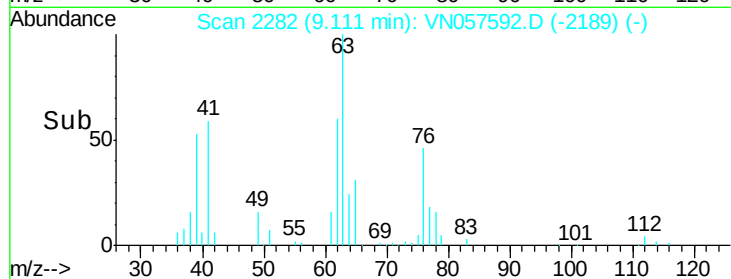
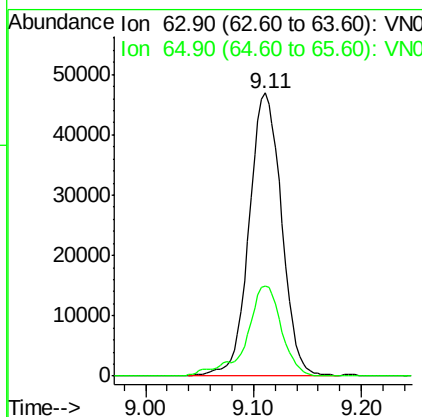
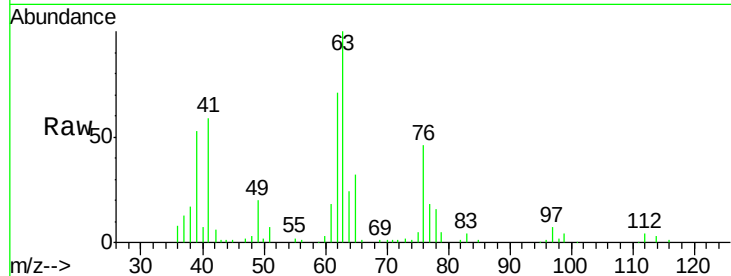
#45
 1,2-Dichloropropane
 Concen: 19.799 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS01

Tot Ion: 63 Resp: 98142
 Ion Ratio Lower Upper
 63 100
 65 31.8 24.7 37.1

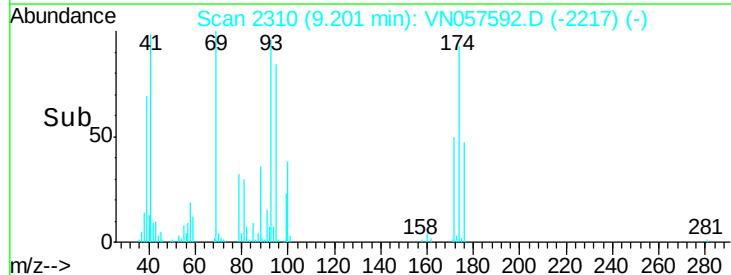
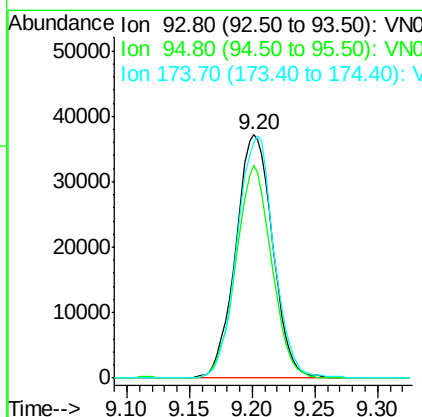
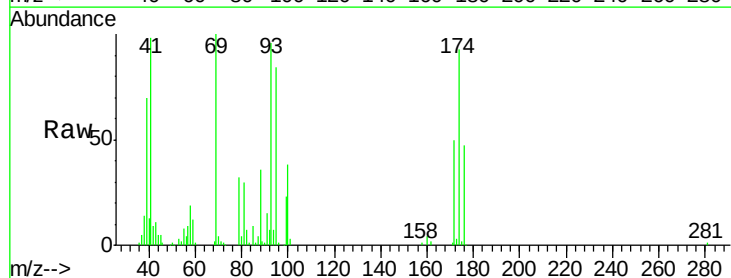
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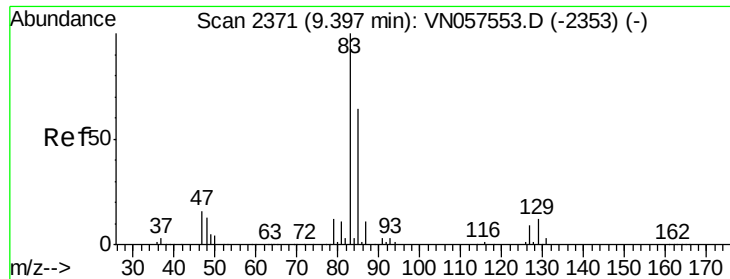
MMDadoda
 8/31/2019 11:28:43 AM



#46
 Dibromomethane
 Concen: 19.583 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Tgt Ion: 93 Resp: 76118
 Ion Ratio Lower Upper
 93 100
 95 84.2 64.7 97.1
 174 99.5 62.3 93.5#





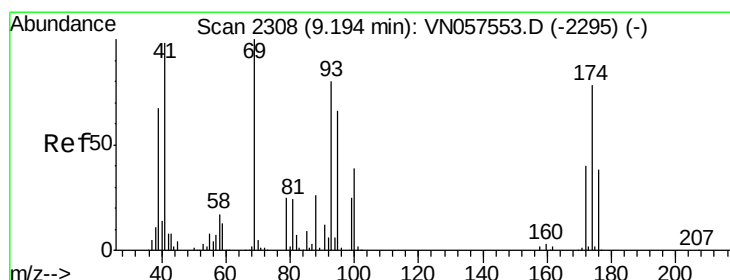
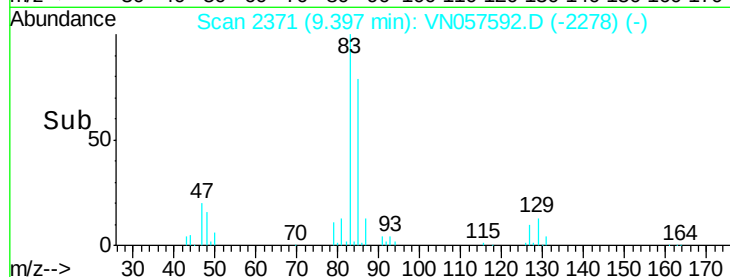
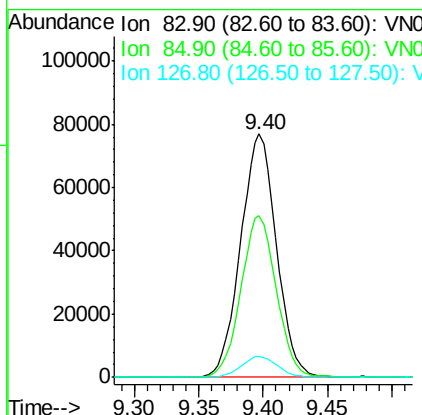
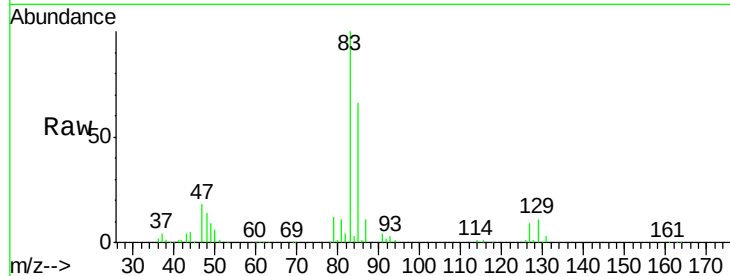
#47
Bromodichloromethane
Concen: 18.552 ug/l
RT: 9.40 min Scan# 2371
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampled :
VN0831WBS01

Tot Ion	83	Resp	148665
Ion Ratio	100		
Lower	51.2		
Upper	76.8		
85	66.3		
127	8.7		

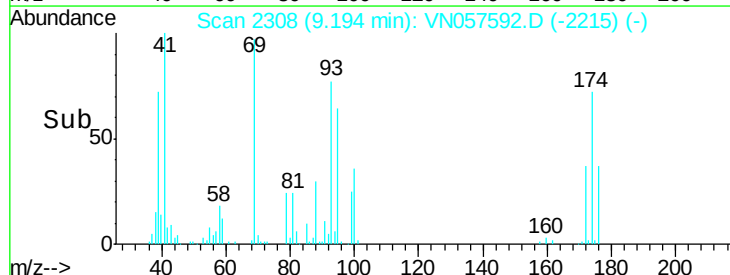
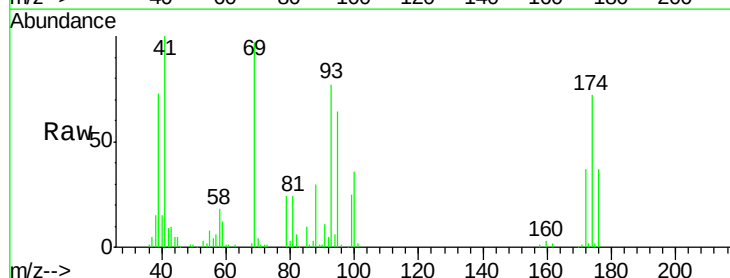
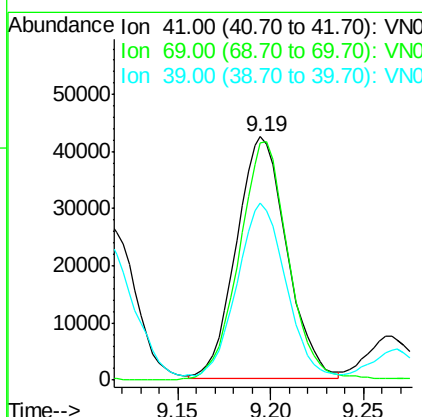
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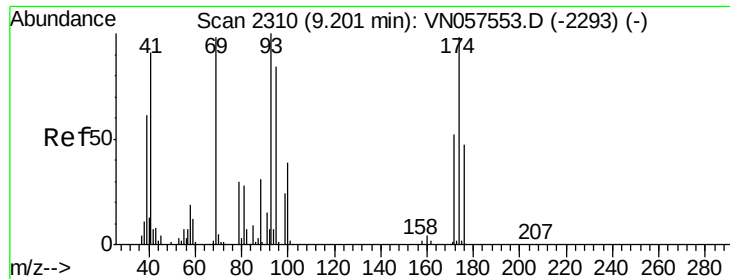
MMDadoda
8/31/2019 11:28:43 AM



#48
Methyl methacrylate
Concen: 19.792 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	41	Resp	80072
Ion Ratio	100		
Lower	59.3		
Upper	88.9#		
69	96.2		
39	71.0		





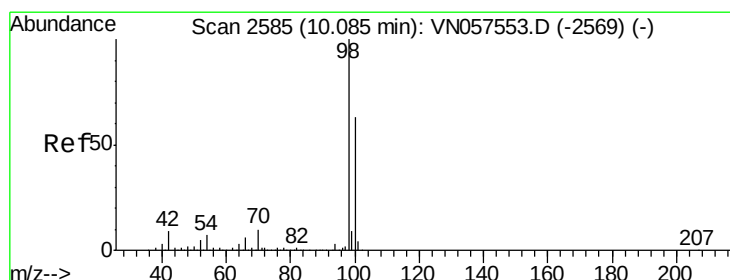
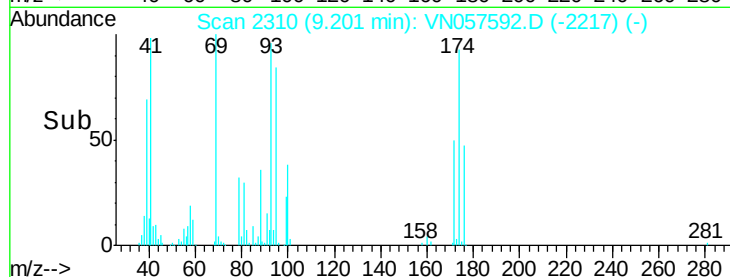
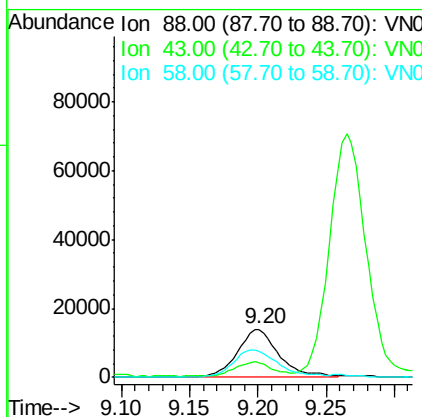
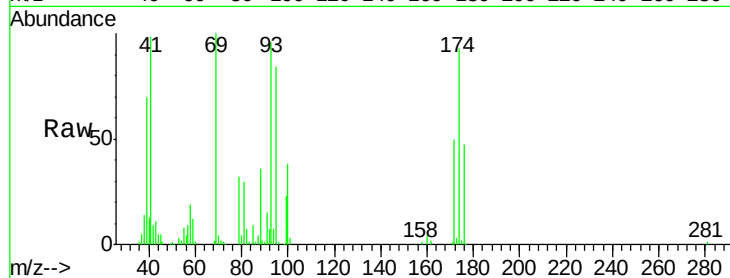
#49
1,4-Dioxane
Concen: 400.091 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS01

Tot Ion	88	Resp	29539
Ion	Ratio	Lower	Upper
88	100		
43	24.8	31.0	46.6#
58	61.5	64.5	96.7#

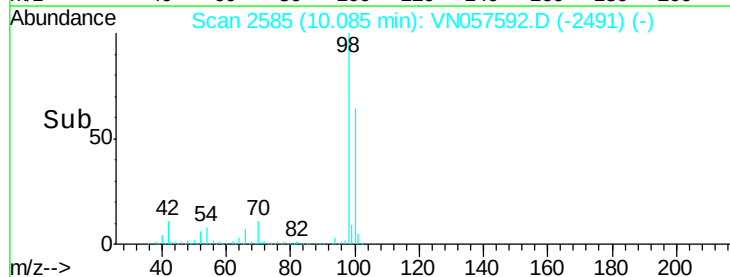
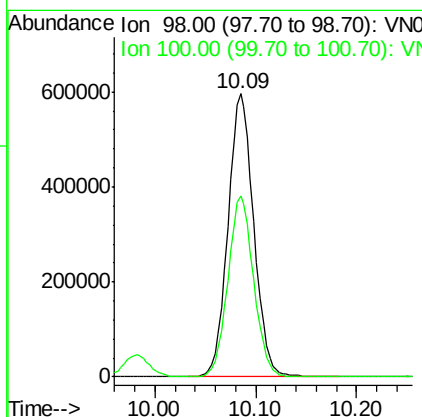
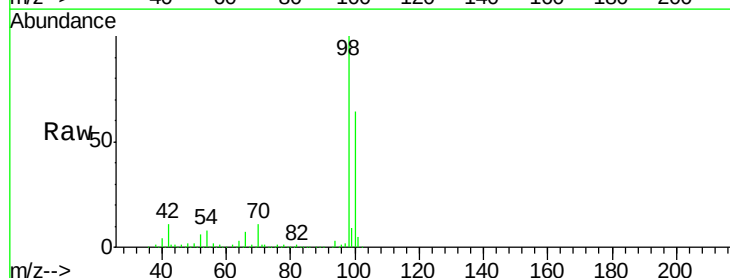
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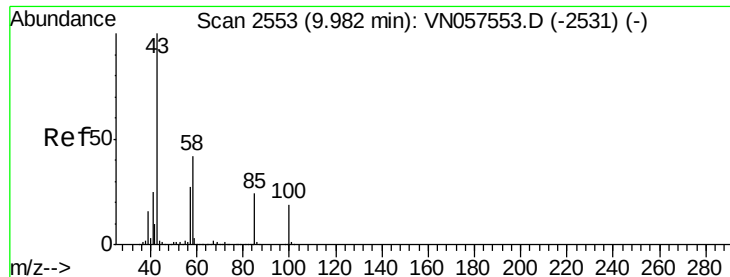
MMDadoda
8/31/2019 11:28:43 AM



#50
Toluene-d8
Concen: 52.355 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	98	Resp	1059864
Ion	Ratio	Lower	Upper
98	100		
100	63.5	50.4	75.6





#51

4-Methyl-2-Pentanone

Concen: 104.960 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0831WBS01

Tot Ion: 43 Resp: 480527

Ion Ratio Lower Upper

43 100

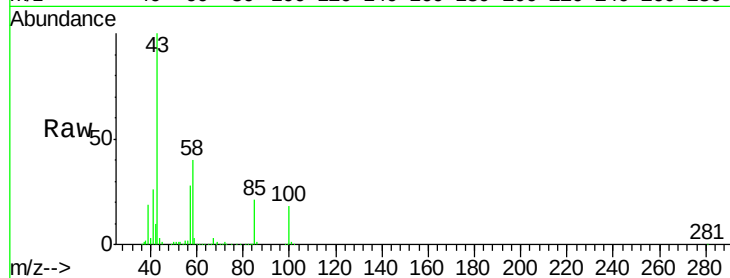
58 39.0 27.9 41.9

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

250000

200000

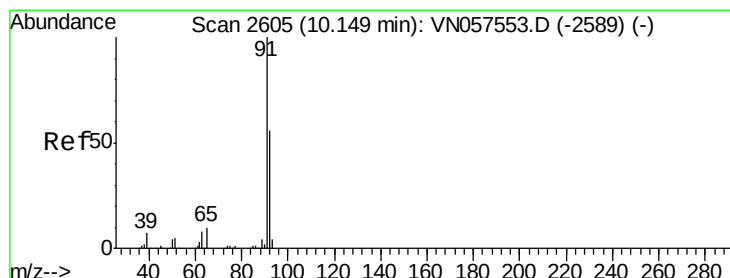
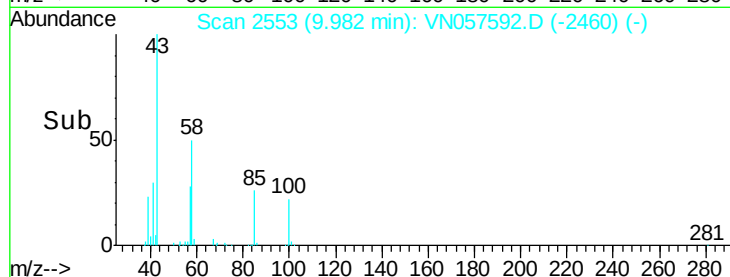
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 19.353 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN057592.D

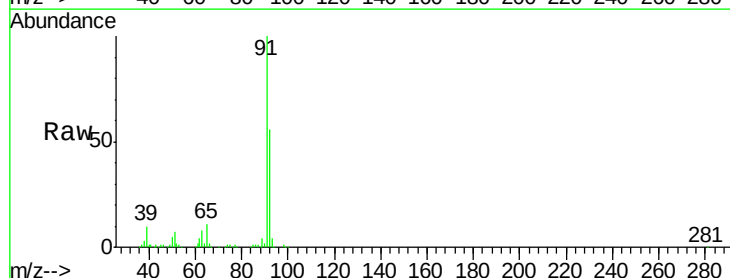
Acq: 30 Aug 2019 17:05

Tgt Ion: 92 Resp: 265963

Ion Ratio Lower Upper

92 100

91 176.8 140.9 211.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.15

250000

200000

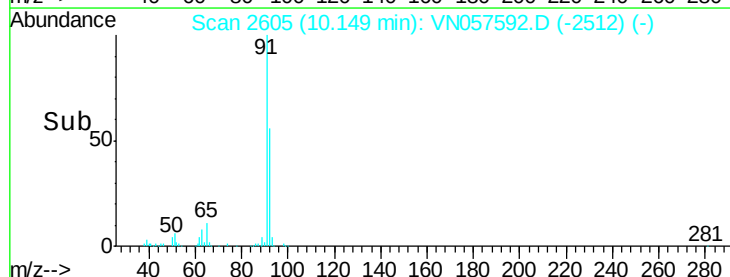
150000

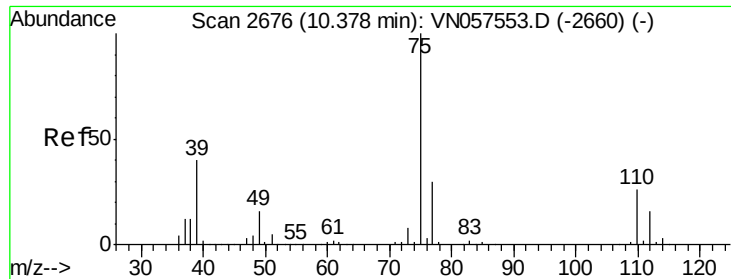
100000

50000

0

Time-->





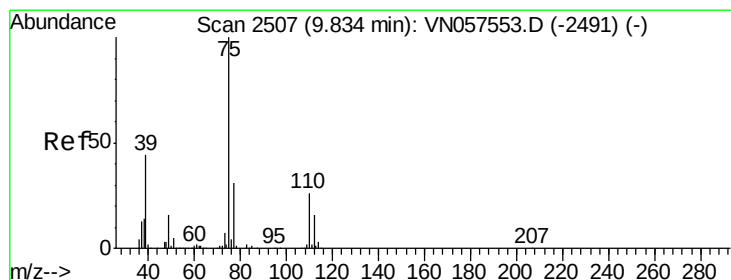
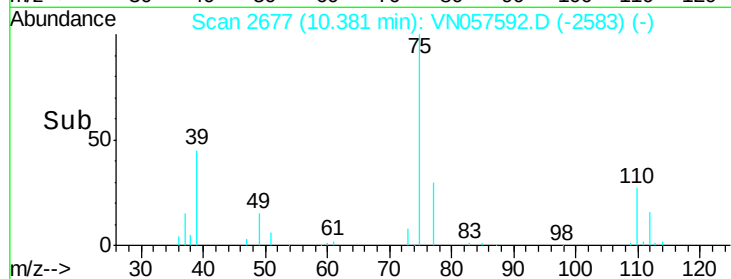
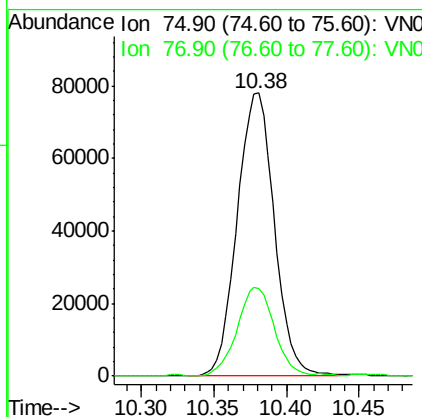
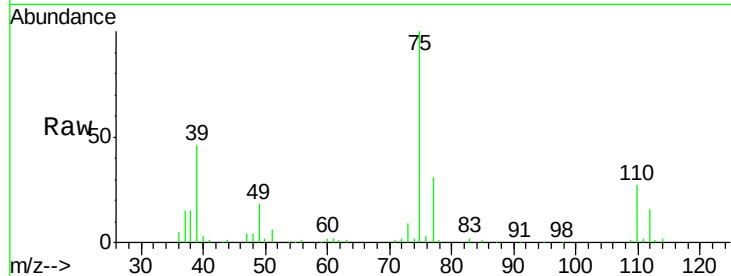
#53
t-1,3-Dichloropropene
Concen: 17.986 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS01

Tot Ion: 75 Resp: 139285
Ion Ratio Lower Upper
75 100
77 30.4 25.0 37.6

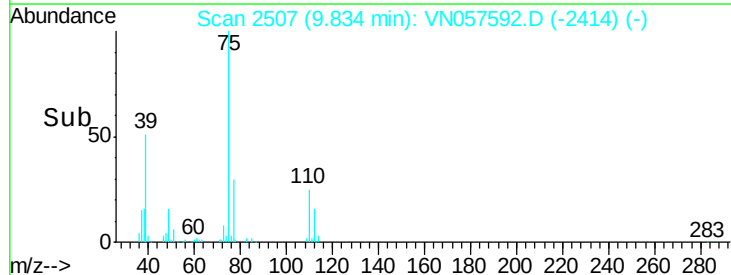
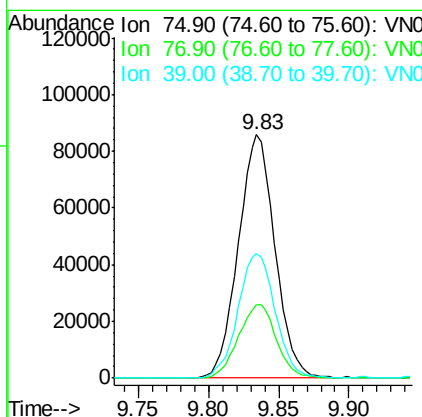
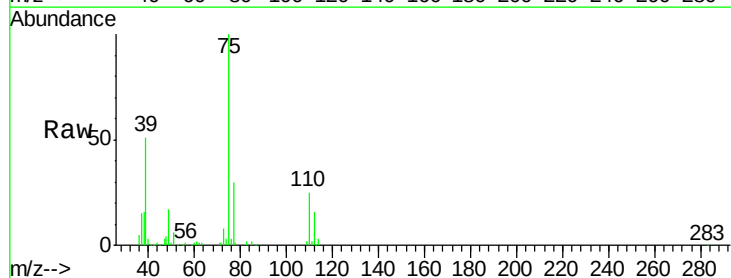
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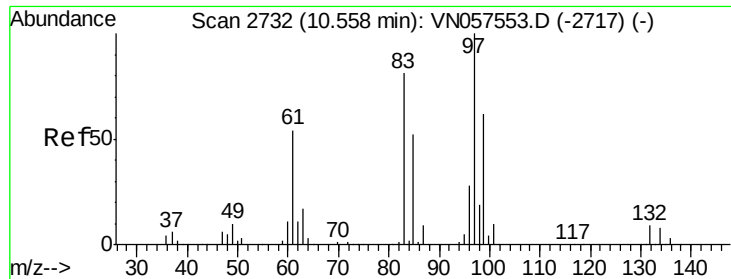
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 18.616 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion: 75 Resp: 156150
Ion Ratio Lower Upper
75 100
77 29.9 25.0 37.6
39 51.0 49.2 73.8





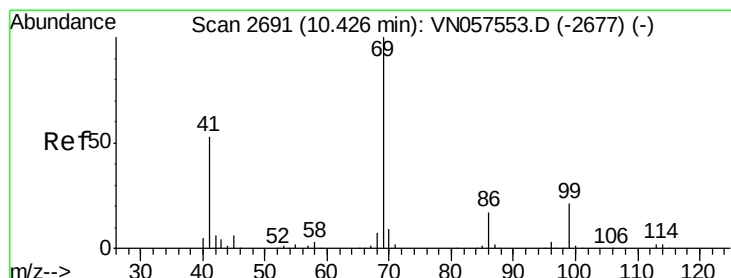
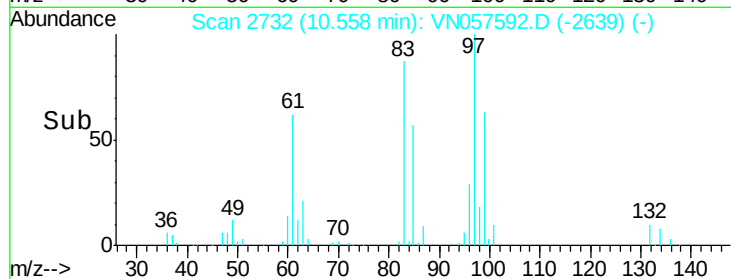
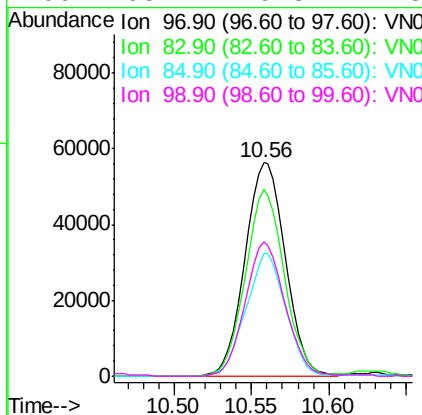
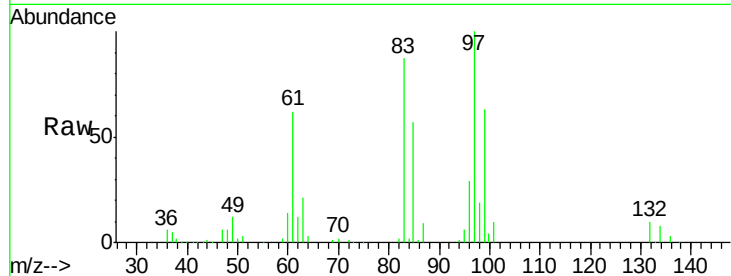
#55
 1,1,2-Trichloroethane
 Concen: 19.349 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		102268		
83	87.4	73.7	110.5		
85	57.3	46.8	70.2		
99	63.1	49.8	74.8		

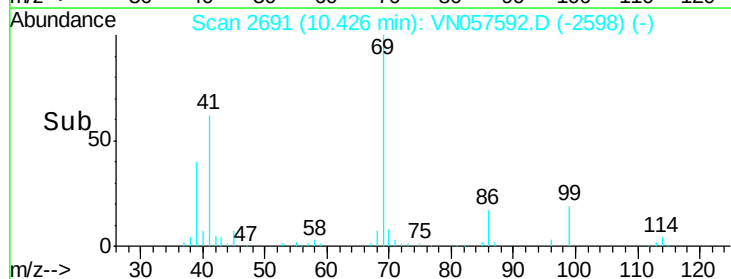
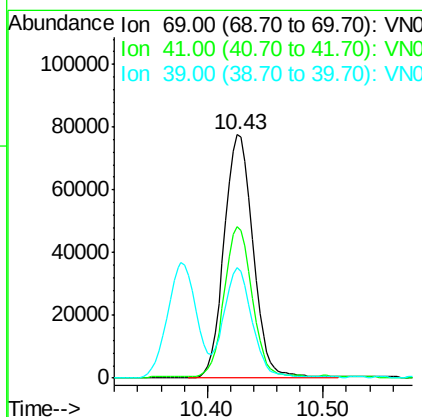
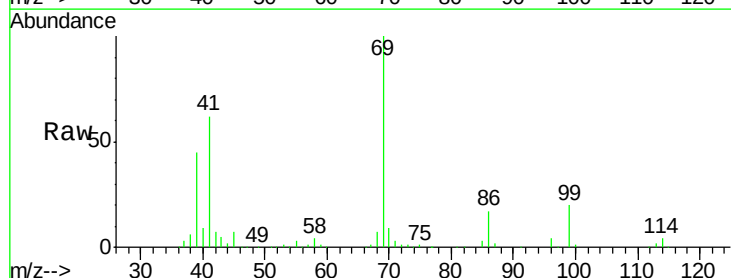
Manual Integrations
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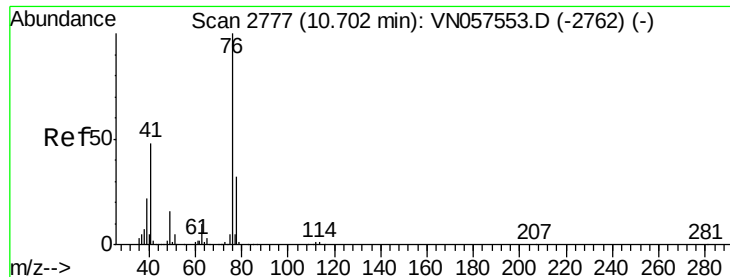
MMDadoda
 8/31/2019 11:28:43 AM



#56
 Ethyl methacrylate
 Concen: 19.103 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		134393		
41	59.1	60.8	91.2#		
39	42.8	36.5	54.7		





#57

1,3-Dichloropropane

Concen: 19.948 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS01

Tot Ion: 76 Resp: 168432

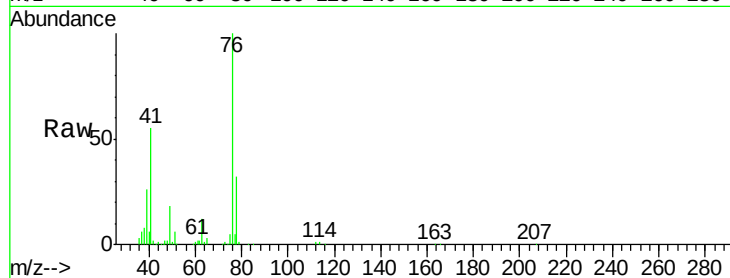
Ion Ratio Lower Upper

76 100

78 30.8 25.5 38.3

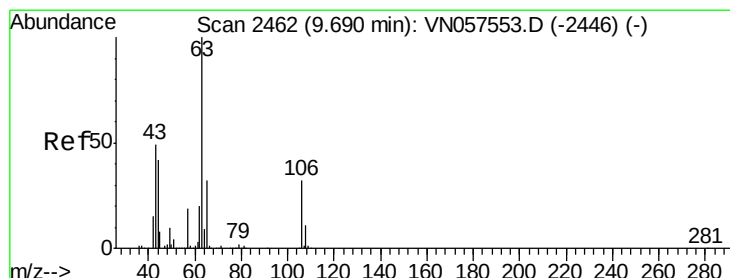
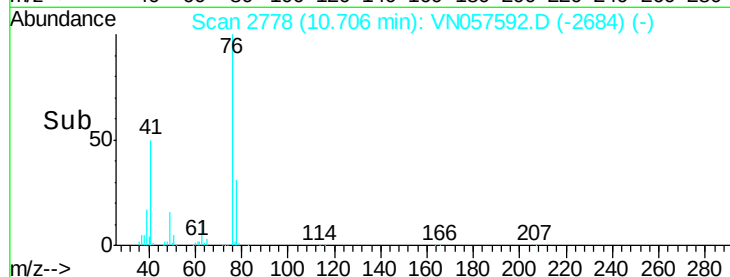
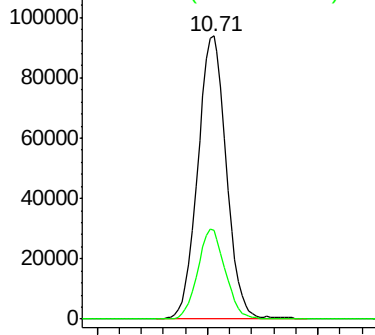
Manual Integrations
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MMDadoda
8/31/2019 11:28:43 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 104.615 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN057592.D

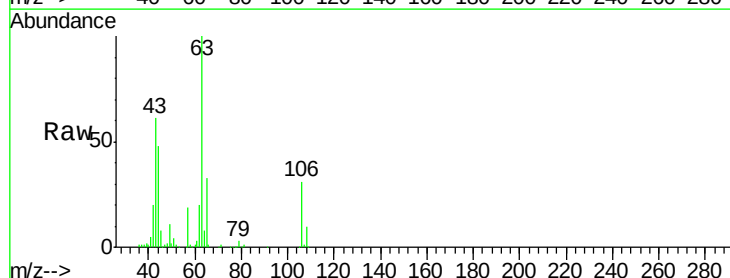
Acq: 30 Aug 2019 17:05

Tgt Ion: 63 Resp: 172674

Ion Ratio Lower Upper

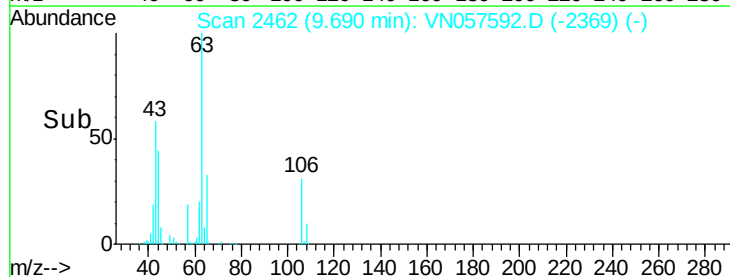
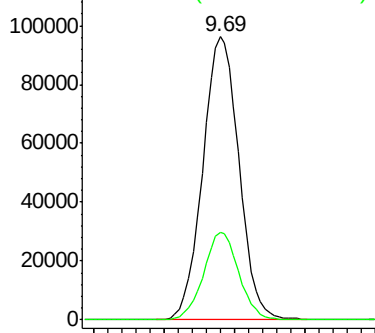
63 100

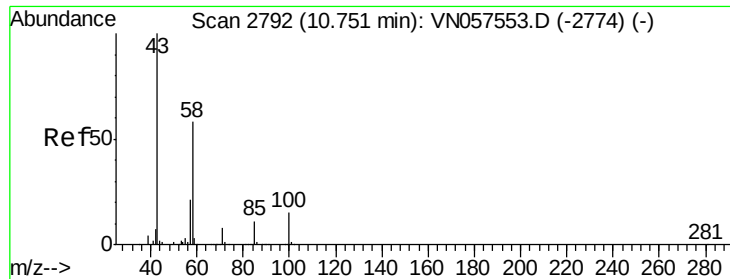
106 30.0 18.6 27.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





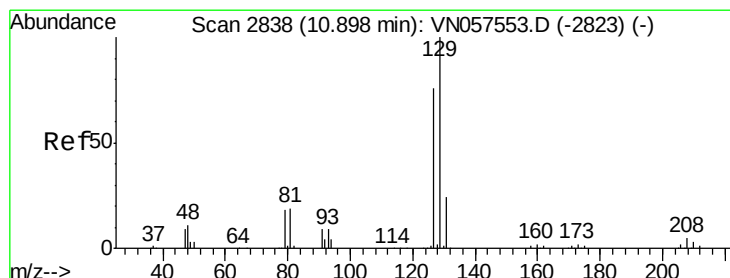
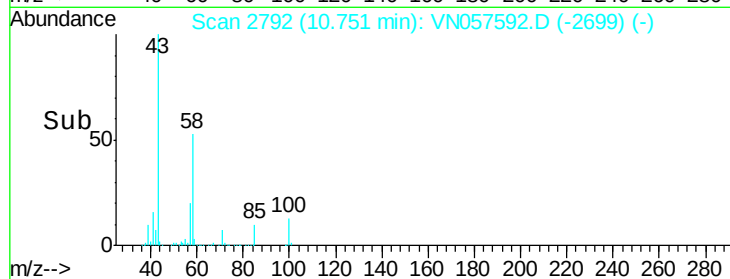
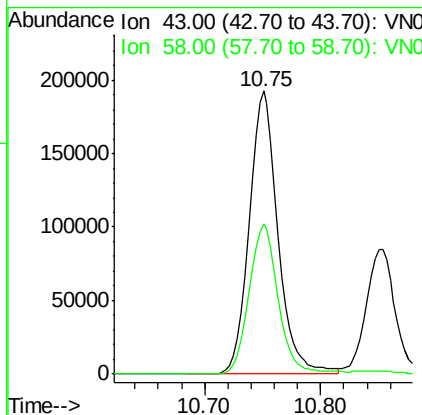
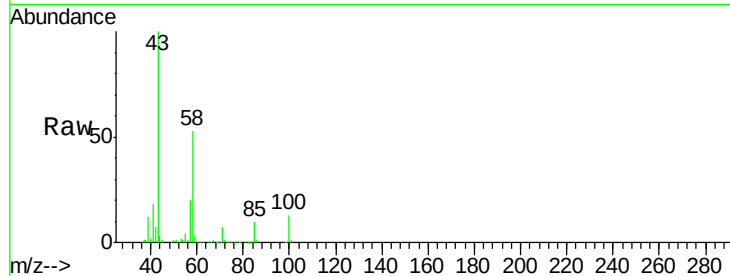
#59
2-Hexanone
Concen: 105.547 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.9	24.6	73.6

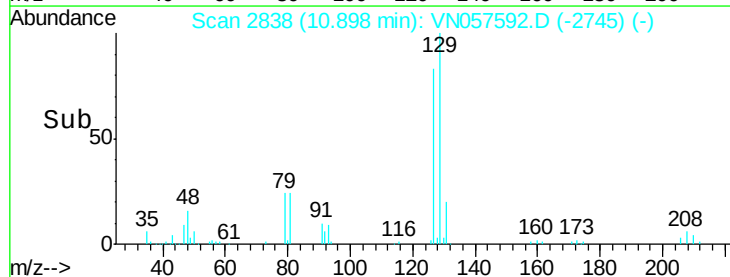
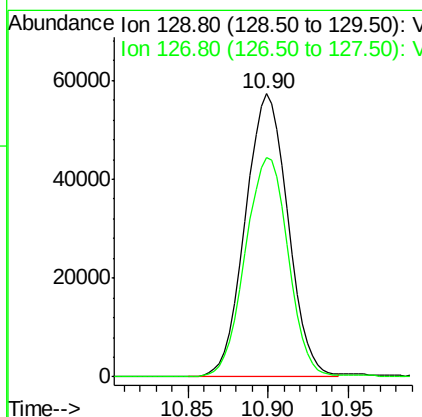
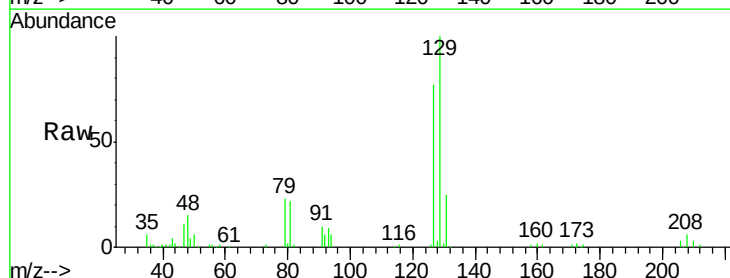
Manual Integrations
APPROVED

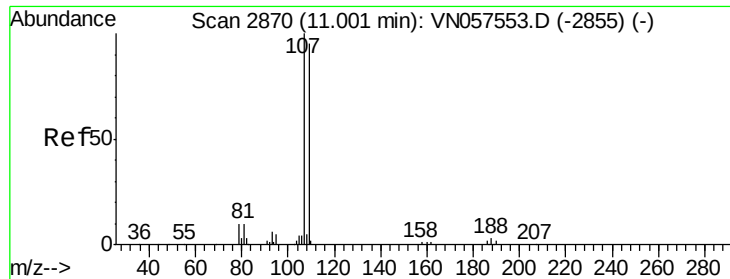
MMDadoda
8/31/2019 11:28:43 AM



#60
Dibromochloromethane
Concen: 17.380 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.0	116.9





#61

1,2-Dibromoethane

Concen: 19.164 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS01

Tot Ion:107 Resp: 105994

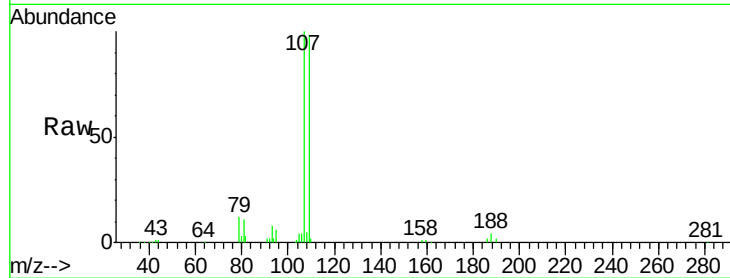
Ion Ratio Lower Upper

107 100

109 96.3 73.8 110.8

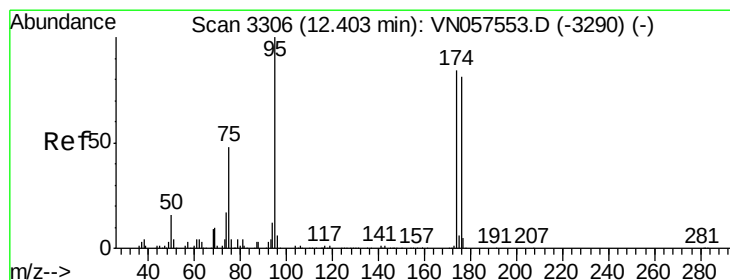
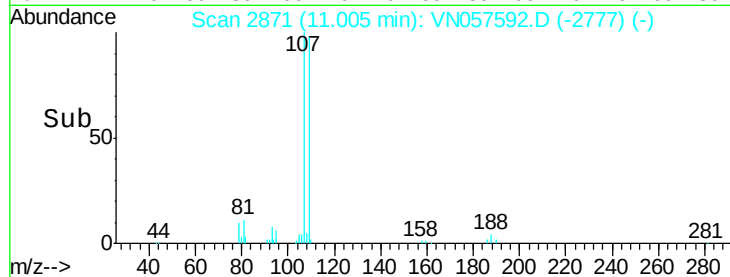
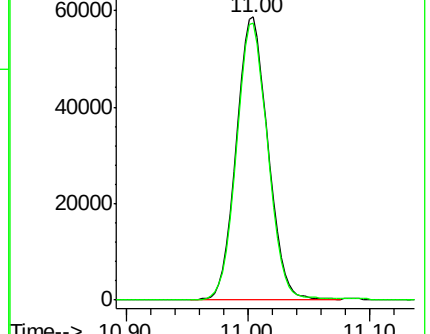
Manual Integrations
APPROVED

MMDadoda
8/31/2019 11:28:43 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 49.339 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

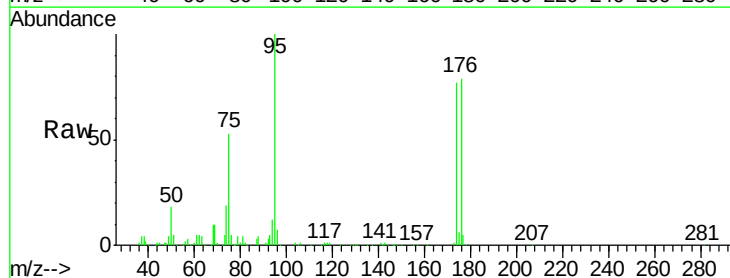
Tgt Ion: 95 Resp: 335277

Ion Ratio Lower Upper

95 100

174 80.0 0.0 133.0

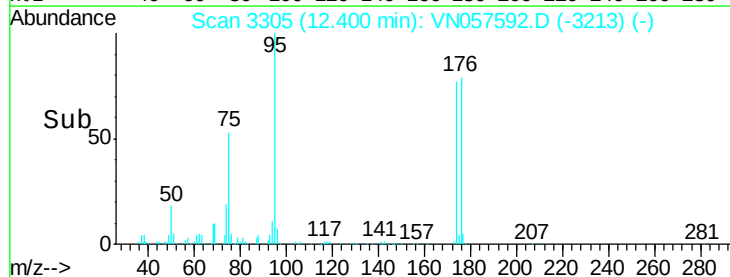
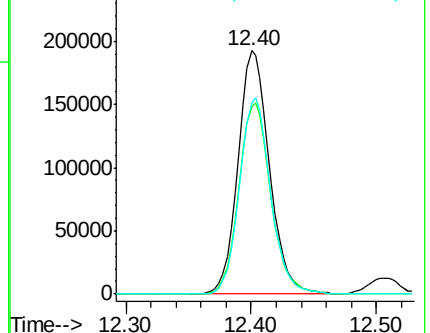
176 80.2 0.0 130.8

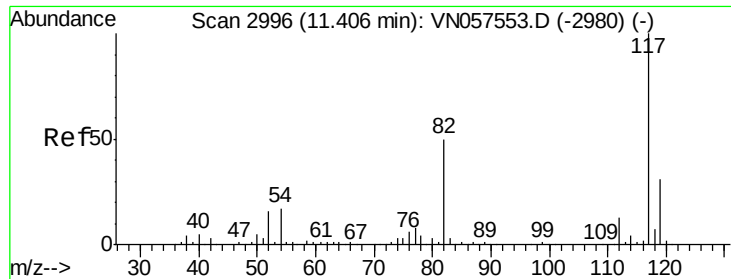


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





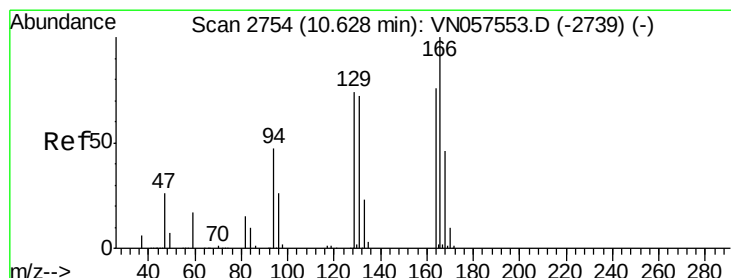
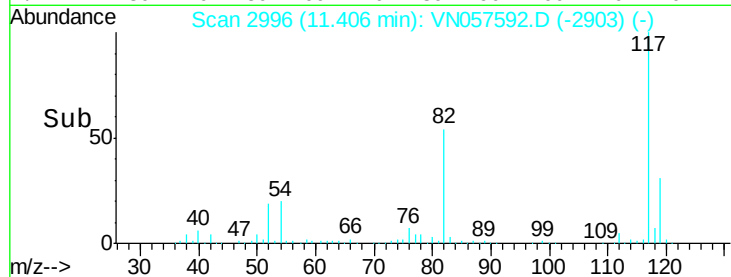
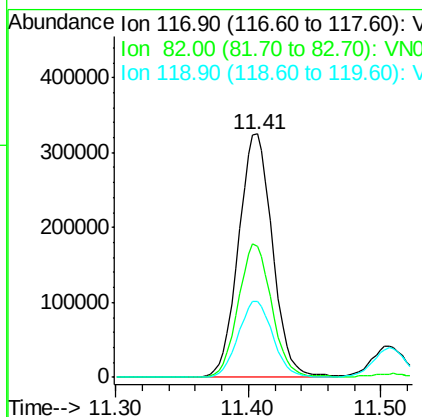
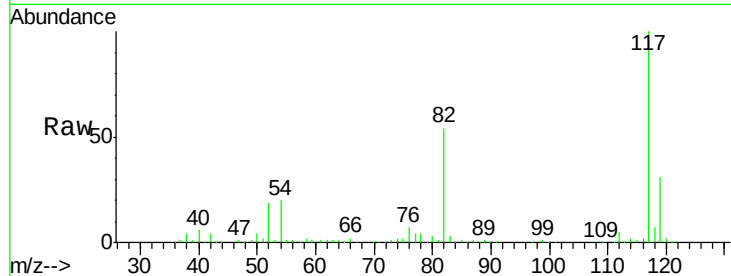
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.1	50.6	75.8
119	31.2	24.6	36.8

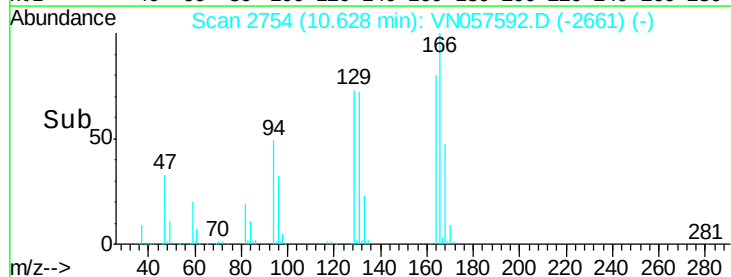
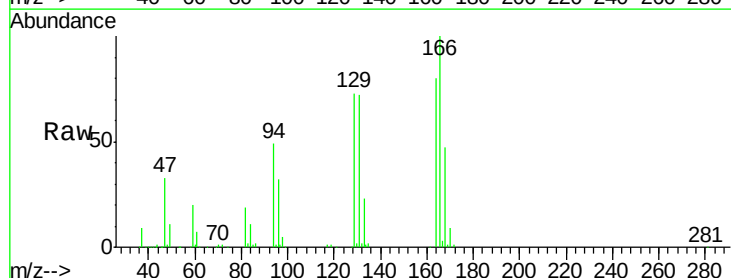
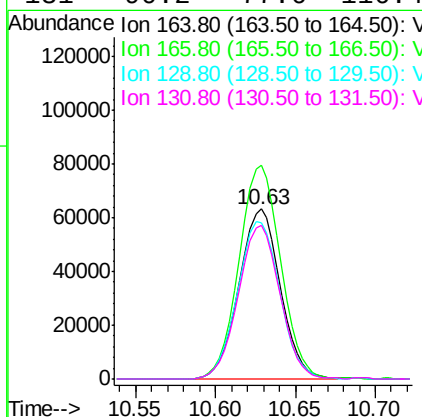
Manual Integrations
APPROVED

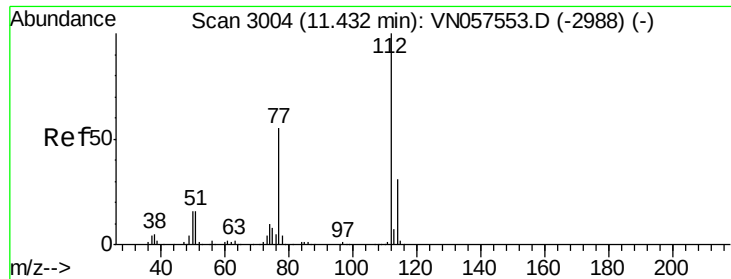
MMDadoda
8/31/2019 11:28:43 AM



#64
Tetrachloroethene
Concen: 18.817 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.8	104.4	156.6
129	92.2	86.6	130.0
131	90.2	77.6	116.4





#65

Chlorobenzene

Concen: 19.494 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS01

Tot Ion:112 Resp: 282655

Ion Ratio Lower Upper

112 100

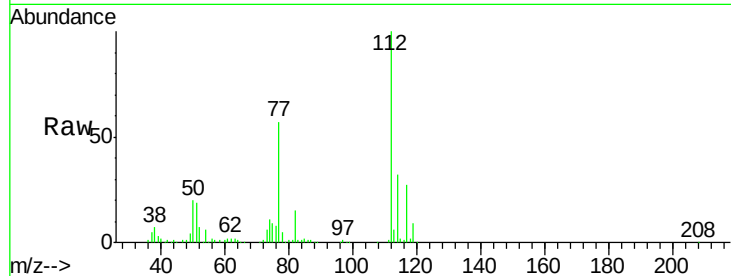
114 32.3 24.8 37.2

Manual Integrations

APPROVED

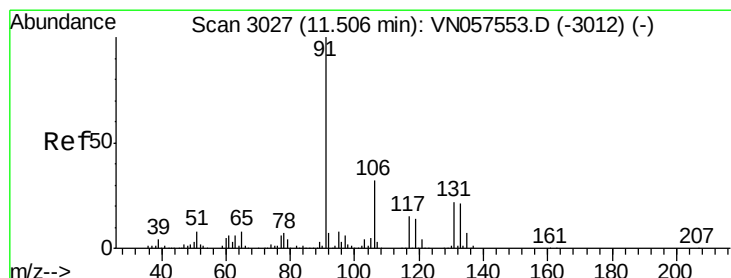
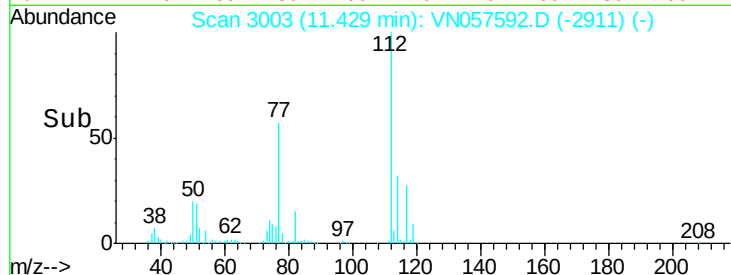
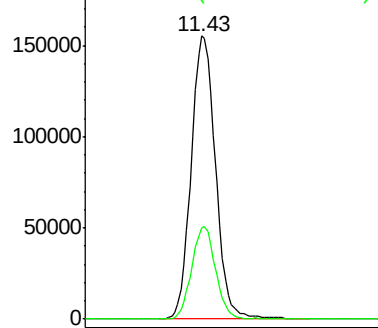
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 18.193 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

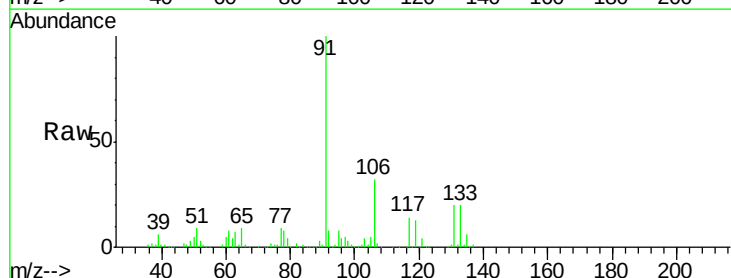
Tgt Ion:131 Resp: 104035

Ion Ratio Lower Upper

131 100

133 95.7 47.6 142.8

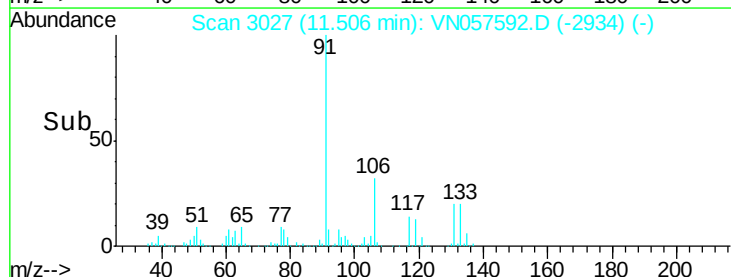
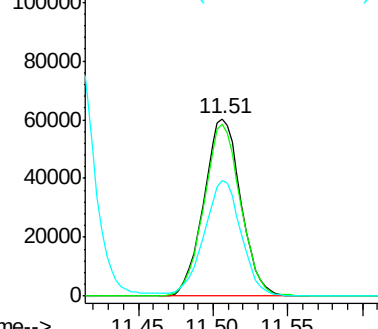
119 65.2 34.4 103.2

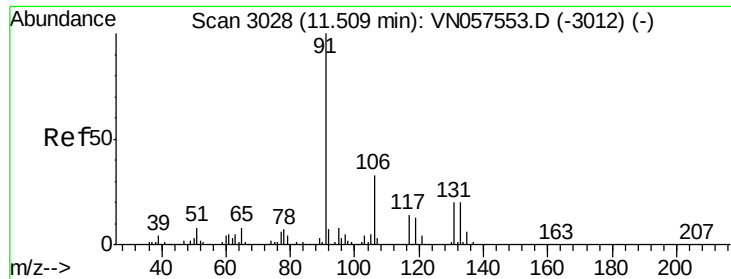


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





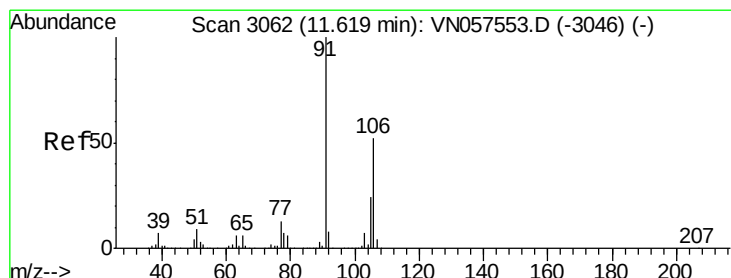
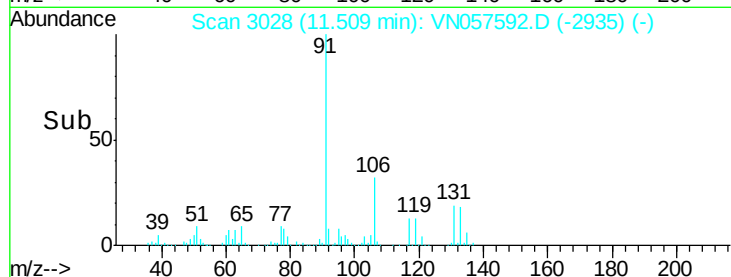
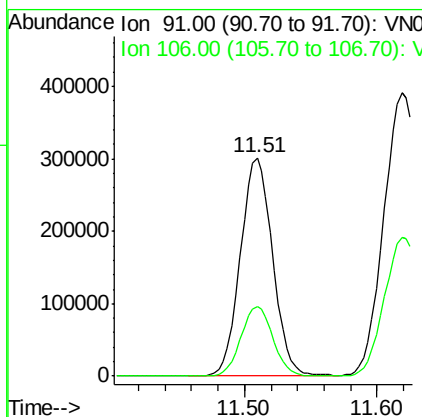
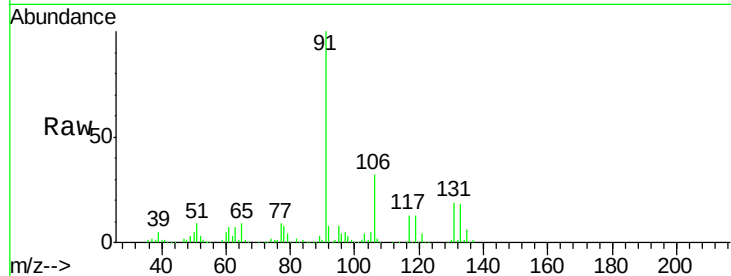
#67
Ethyl Benzene
Concen: 20.021 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampled :
VN0831WBS01

Tot Ion: 91 Resp: 509783
Ion Ratio Lower Upper
91 100
106 32.1 24.1 36.1

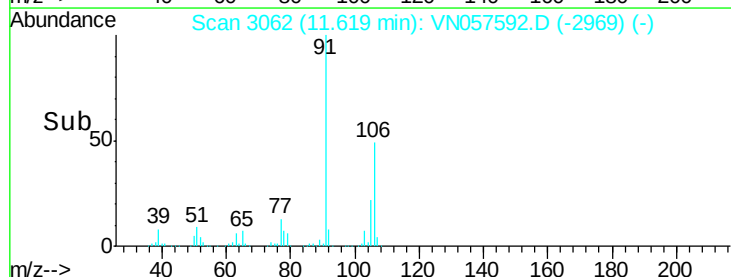
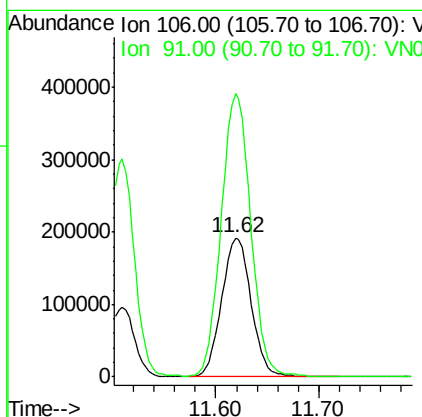
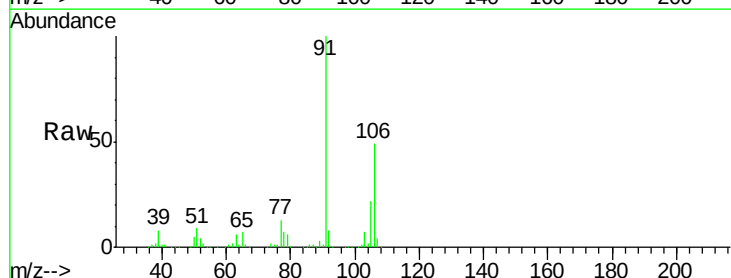
Manual Integrations
APPROVED

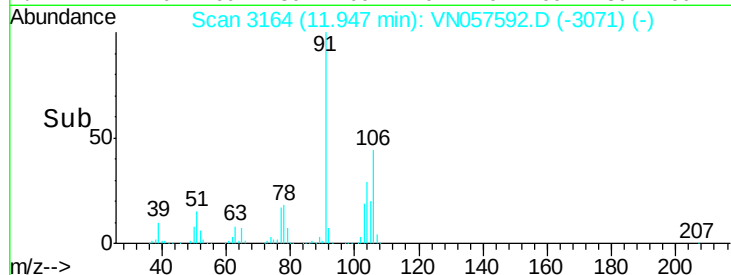
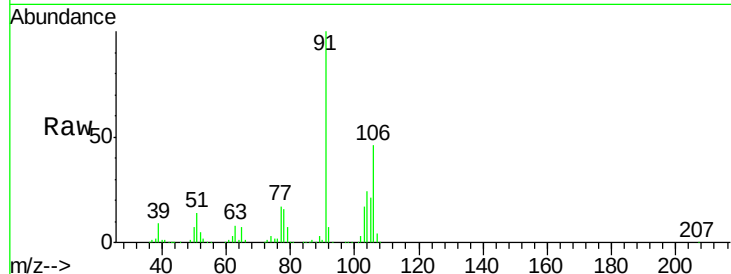
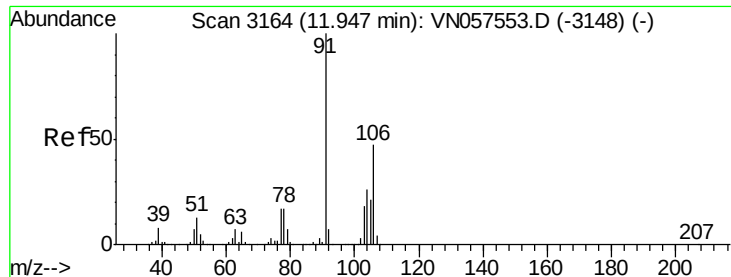
MMDadoda
8/31/2019 11:28:43 AM



#68
m/p-Xylenes
Concen: 39.540 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion: 106 Resp: 383446
Ion Ratio Lower Upper
106 100
91 203.5 171.8 257.6





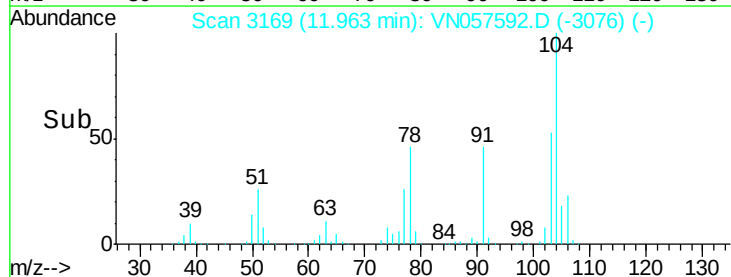
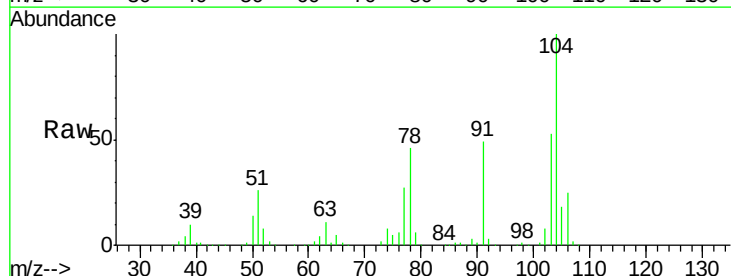
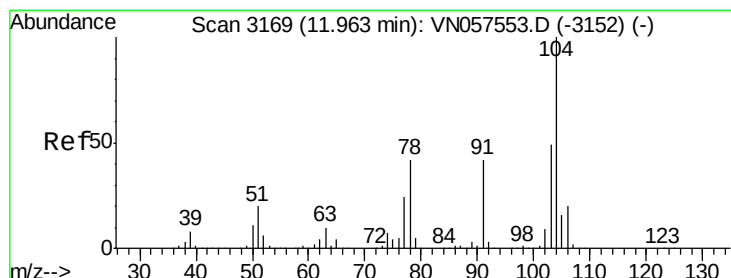
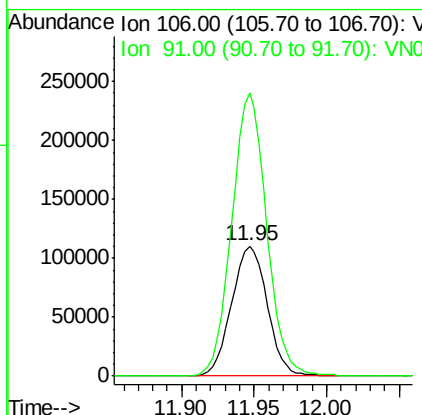
#69
o-Xylene
Concen: 19.395 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	188878		
91	91	212.4	112.3	336.9	

Instrument :
MSVOA_N
ClientSampled :
VN0831WBS01

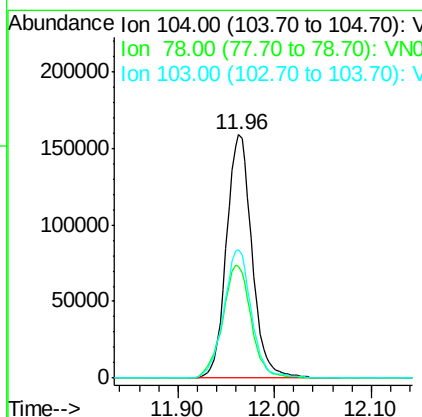
Manual Integrations
APPROVED

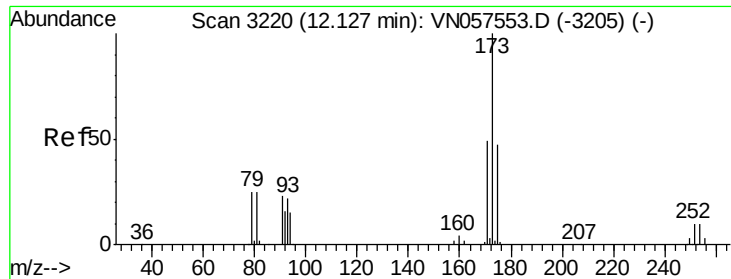
MMDadoda
8/31/2019 11:28:43 AM



#70
Styrene
Concen: 19.838 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	291617		
78	78	51.8	44.7	67.1	
103	103	56.9	44.4	66.6	





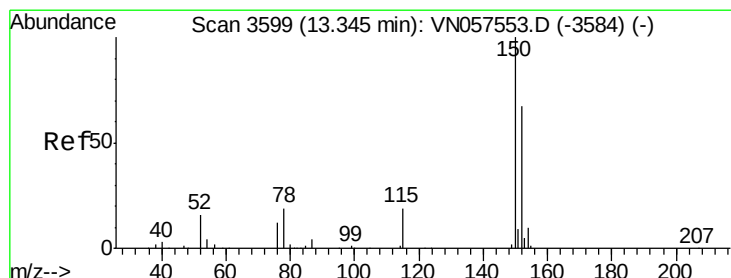
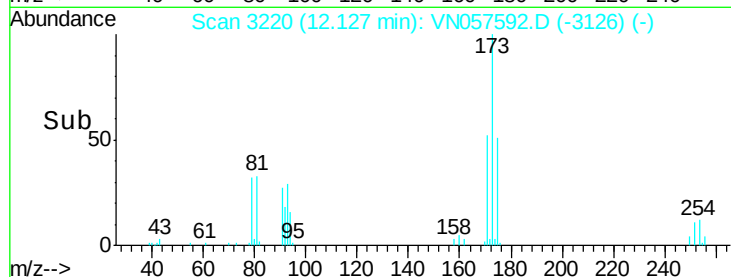
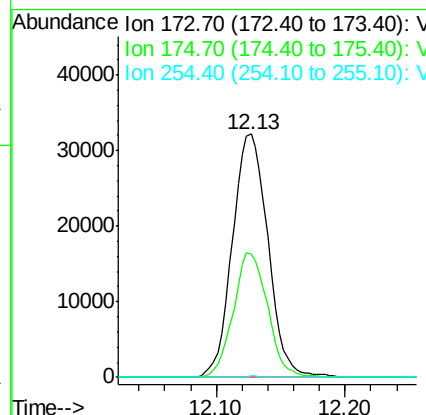
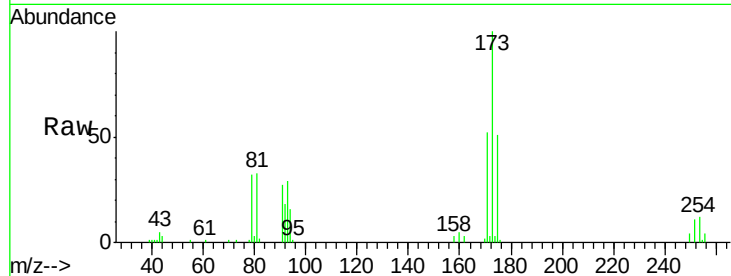
#71
Bromoform
Concen: 16.122 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.4	23.9	71.8
254	0.1	0.1	0.1

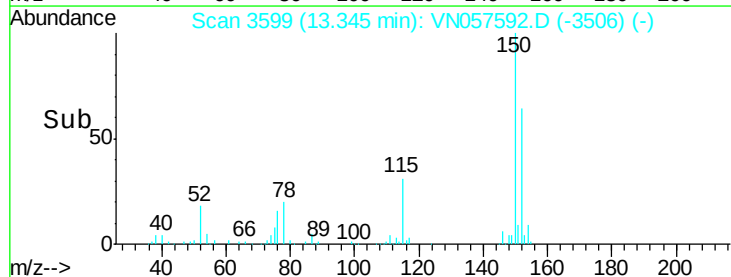
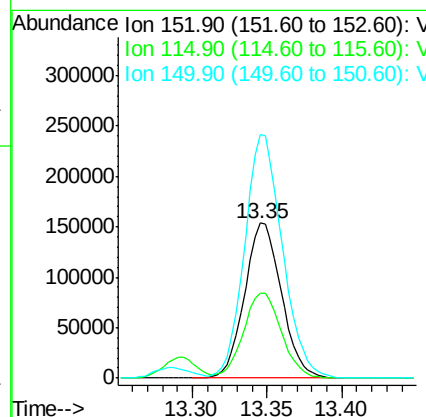
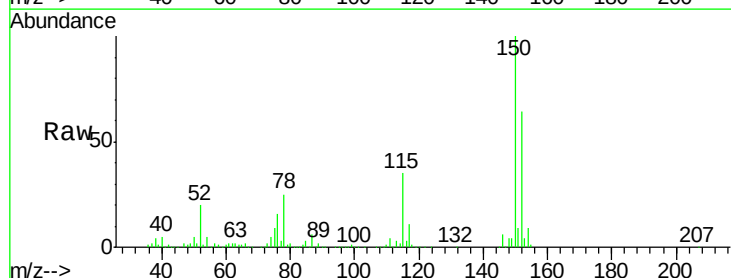
Manual Integrations
APPROVED

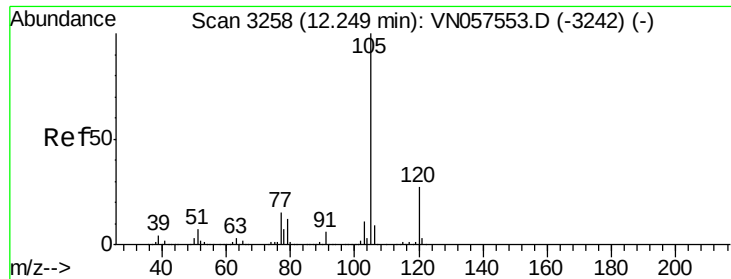
MMDadoda
8/31/2019 11:28:43 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.5	32.0	96.0
150	161.2	0.0	346.6





#73

Isopropylbenzene

Concen: 18.032 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBS01

Tot Ion:105 Resp: 506795

Ion Ratio Lower Upper

105 100

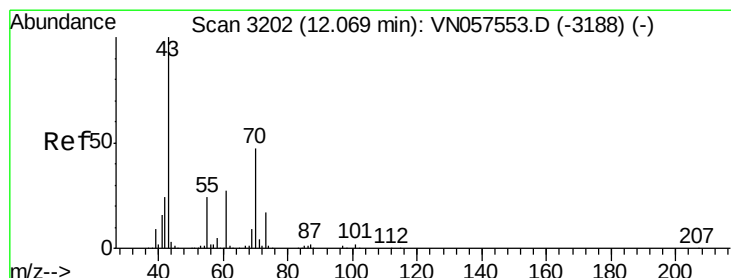
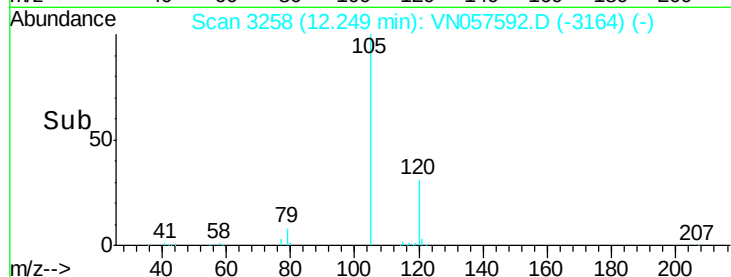
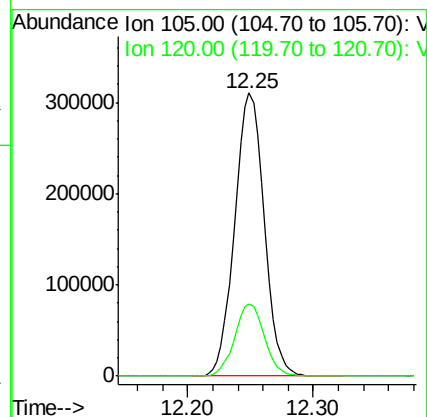
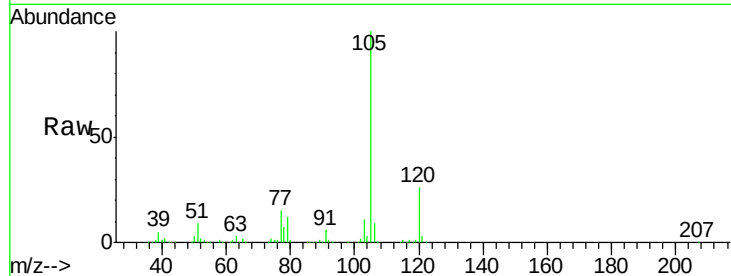
120 25.7 12.7 38.0

Manual Integrations

APPROVED

MMDadoda

8/31/2019 11:28:43 AM



#74

N-ethyl acetate

Concen: 22.821 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Tgt Ion: 43 Resp: 139348

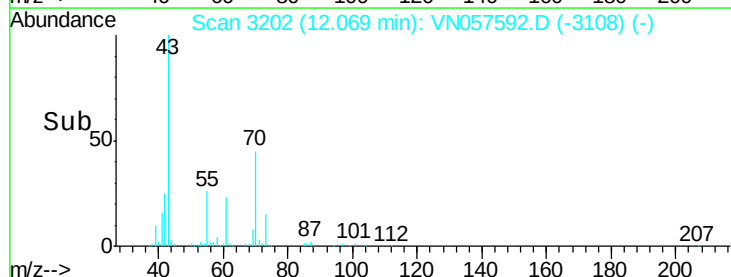
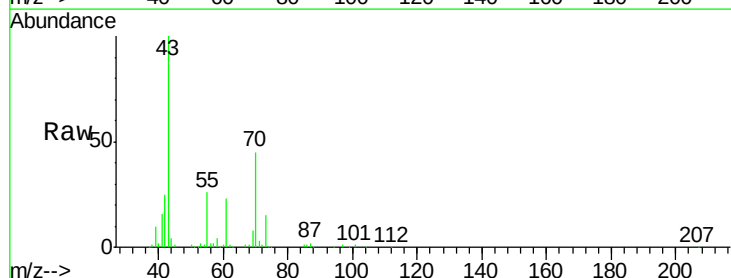
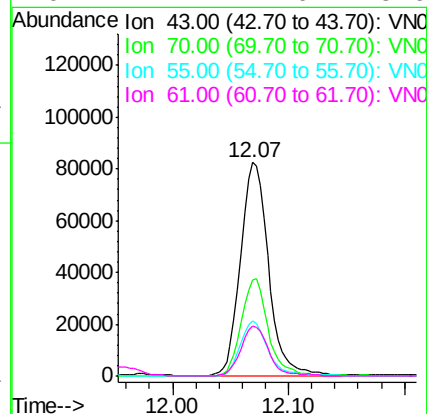
Ion Ratio Lower Upper

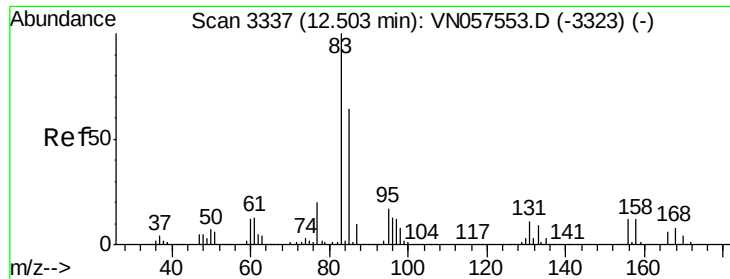
43 100

70 43.2 27.8 41.6#

55 24.6 17.0 25.4

61 22.7 17.0 25.6





#75

1,1,2,2-Tetrachloroethane

Concen: 20.673 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

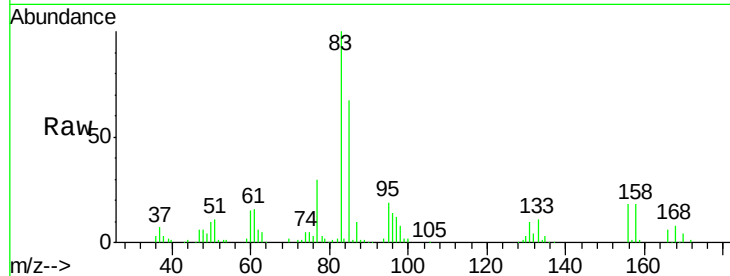
ClientSampleId :

VN0831WBS01

Tot Ion:	83	Resp:	124568
Ion Ratio	Lower	Upper	
83	100		
131	10.8	4.3	13.1
85	65.3	32.3	96.8

Manual Integrations
APPROVED

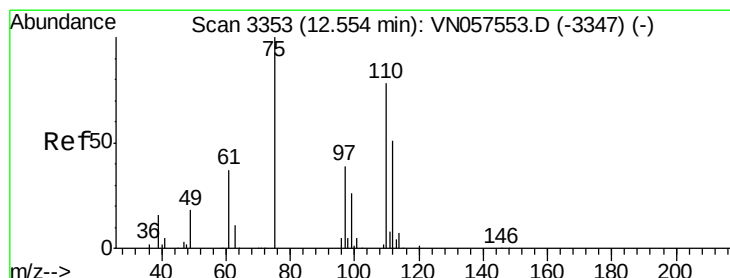
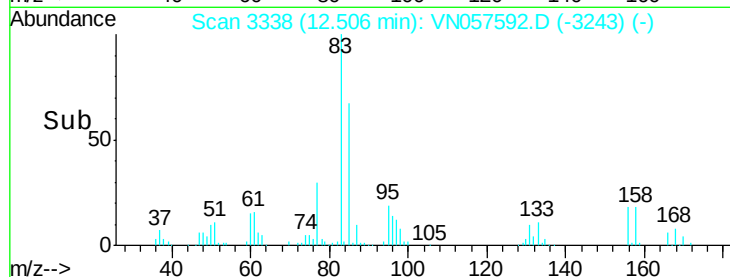
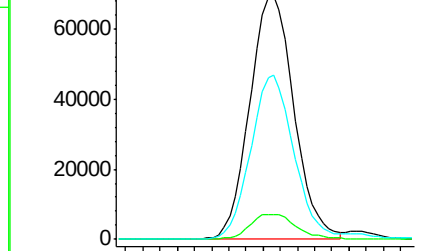
MMDadoda
8/31/2019 11:28:43 AM



Abundance Ion 82.90 (82.60 to 83.60): VN057592.D (-3243) (-)

Ion 130.80 (130.50 to 131.50): VN057592.D (-3243) (-)

Ion 84.90 (84.60 to 85.60): VN057592.D (-3243) (-)



#76

1,2,3-Trichloropropane

Concen: 21.757 ug/l m

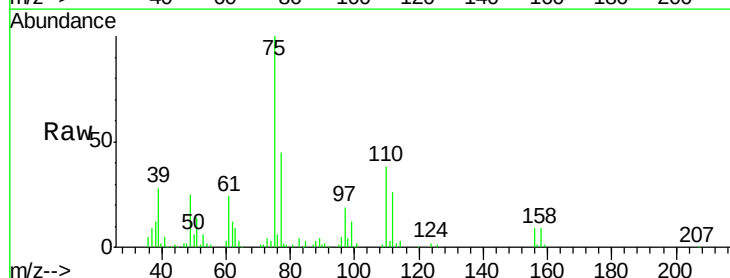
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN057592.D

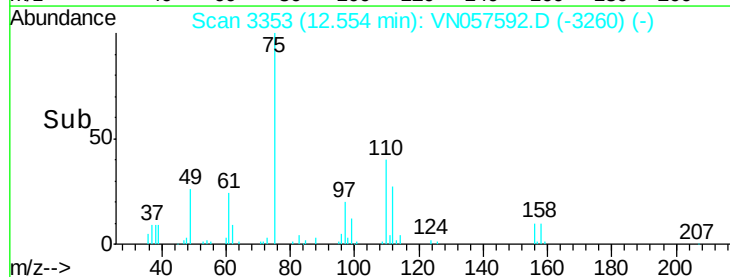
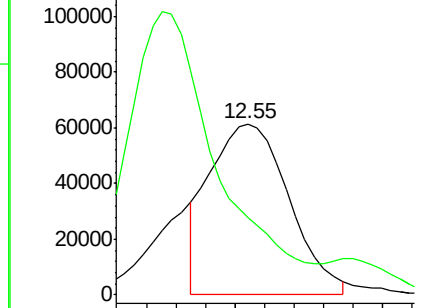
Acq: 30 Aug 2019 17:05

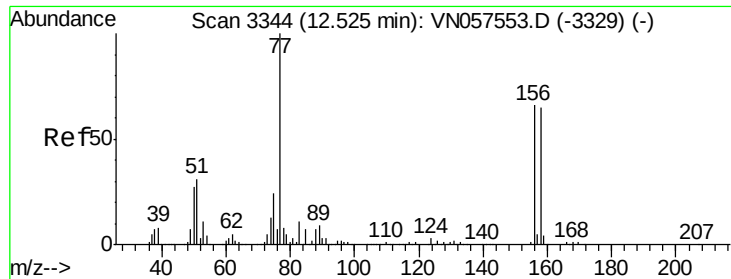
Tgt Ion:	75	Resp:	114409
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN057592.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN057592.D (-3260) (-)





#77

Bromobenzene

Concen: 17.954 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

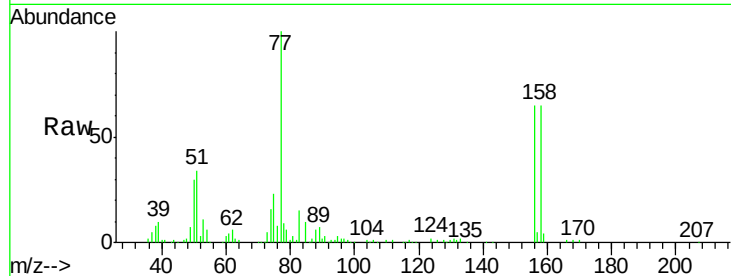
ClientSampled :

VN0831WBS01

Tot Ion:	156	Resp:	116651
Ion Ratio	Lower	Upper	
156	100		
77	186.2	124.4	373.3
158	97.1	48.3	144.8

Manual Integrations
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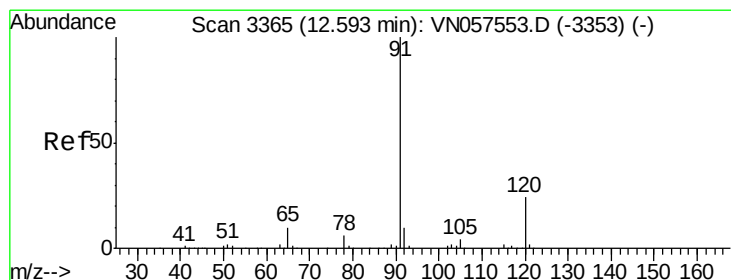
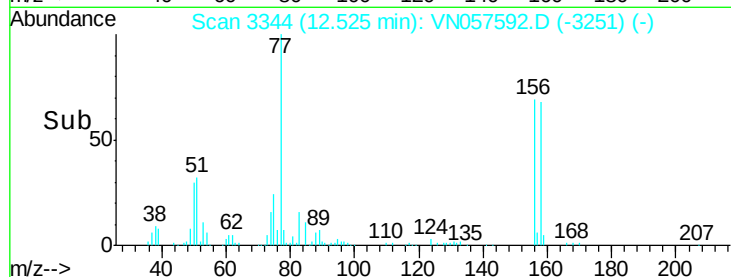
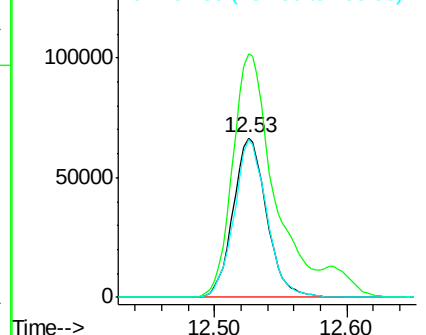
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.792 ug/l

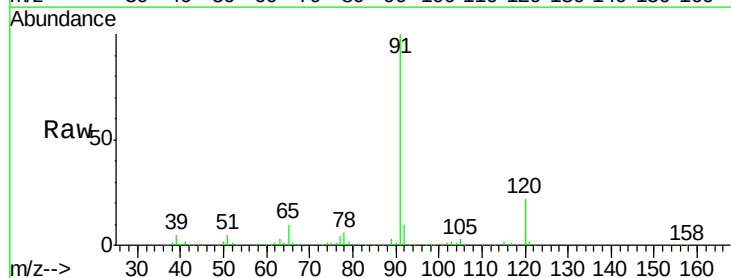
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN057592.D

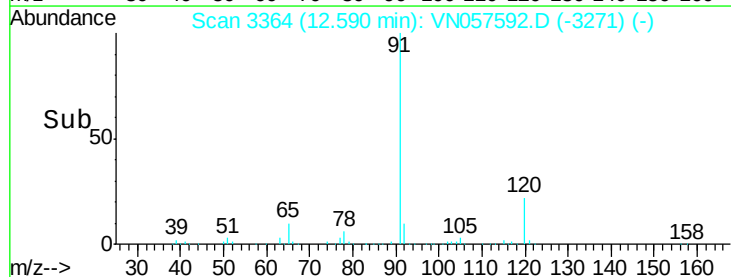
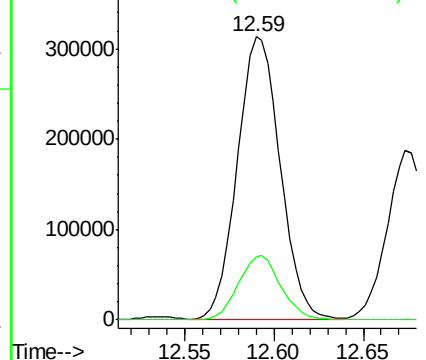
Acq: 30 Aug 2019 17:05

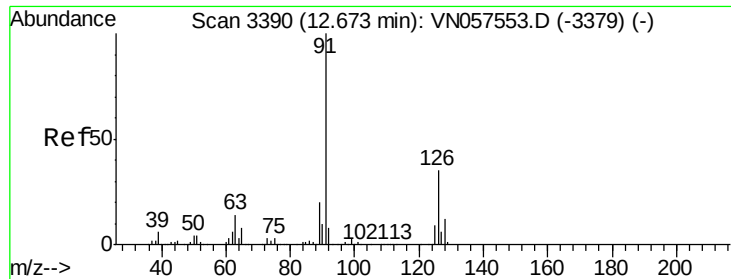
Tgt Ion:	91	Resp:	523221
Ion Ratio	Lower	Upper	
91	100		
120	22.6	10.7	32.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 17.894 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0831WBS01

Tot Ion: 91 Resp: 310328

Ion Ratio Lower Upper

91 100

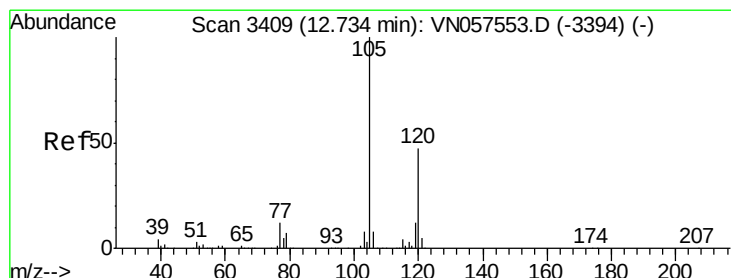
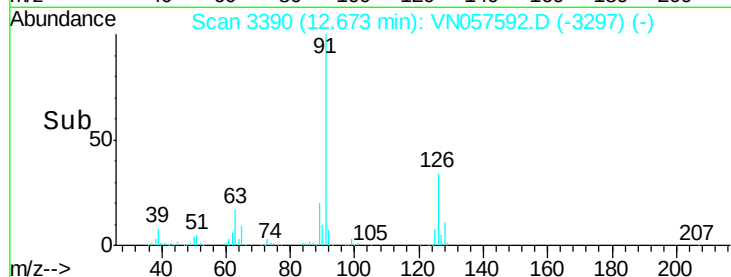
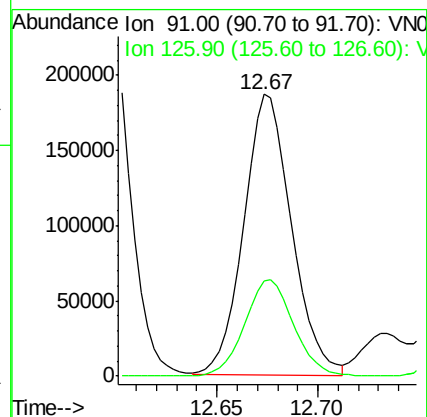
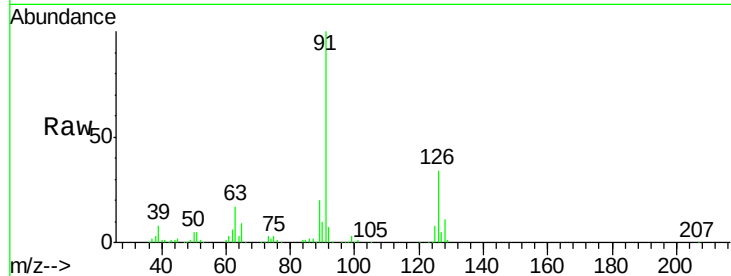
126 35.3 15.3 45.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 19.078 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057592.D

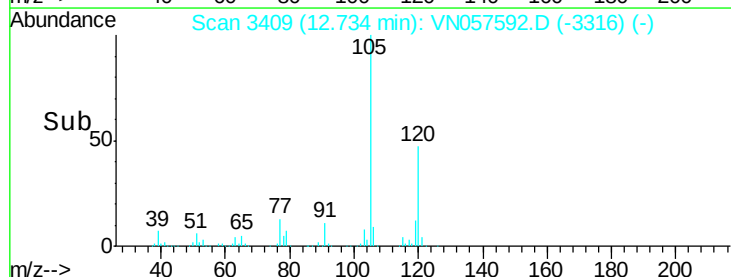
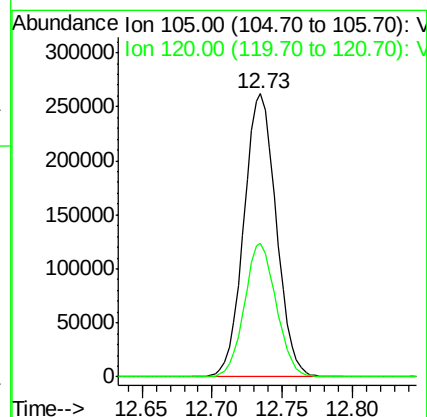
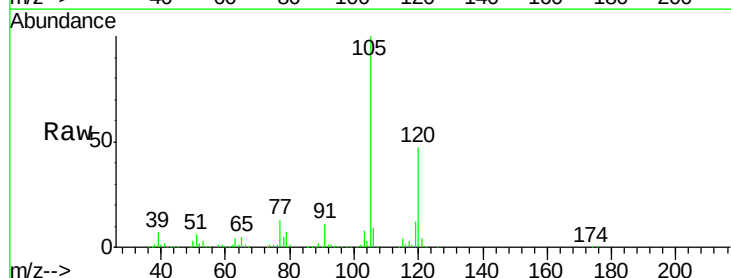
Acq: 30 Aug 2019 17:05

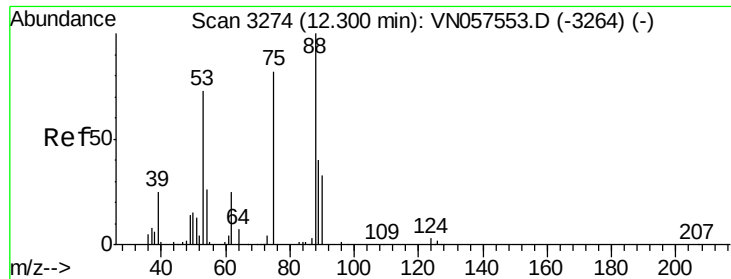
Tgt Ion: 105 Resp: 420765

Ion Ratio Lower Upper

105 100

120 46.5 23.3 69.8





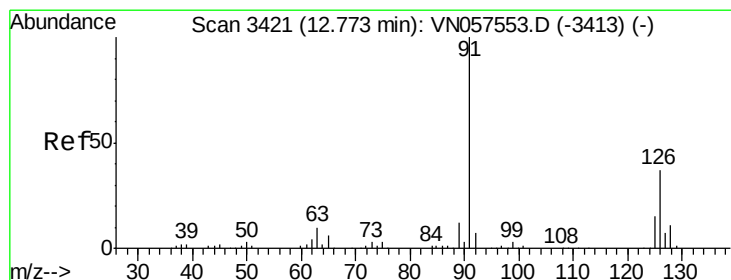
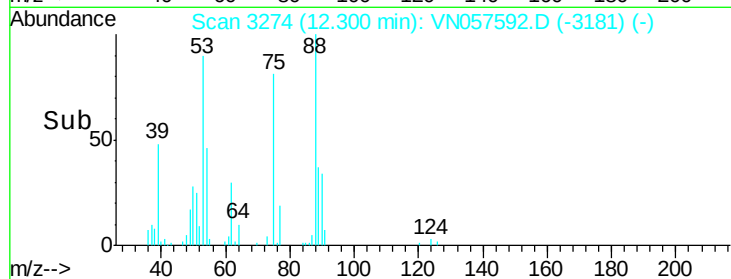
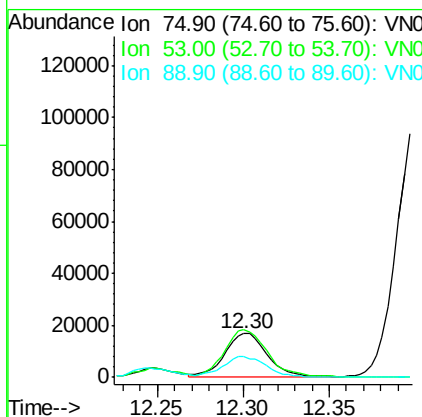
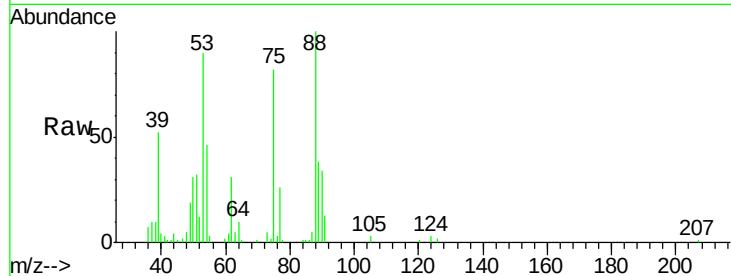
#81
trans-1,4-Dichloro-2-butene
Concen: 16.095 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	107.1	82.7	124.1
89	50.1	35.8	53.8

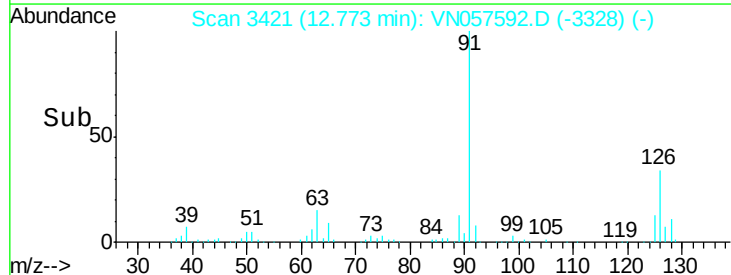
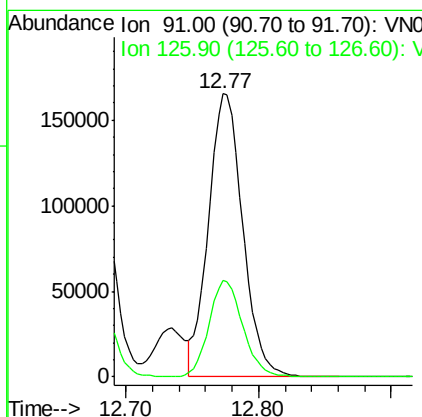
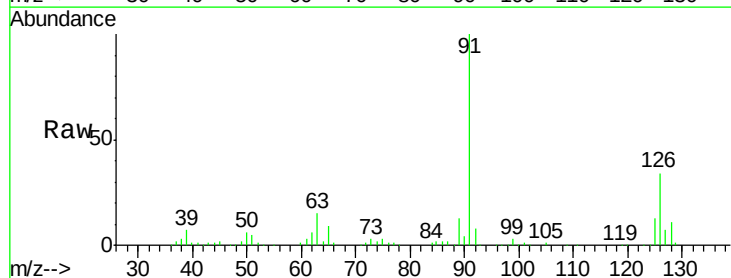
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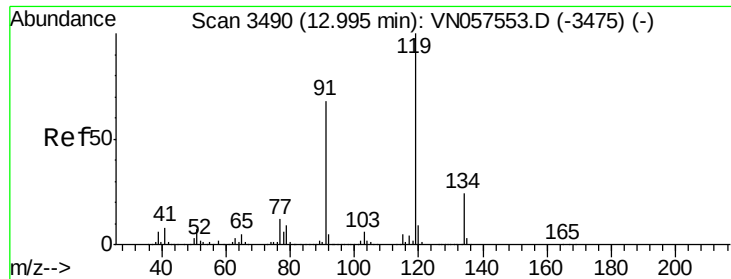
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#82
4-Chlorotoluene
Concen: 18.458 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN057592.D
Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.6	15.0	45.0





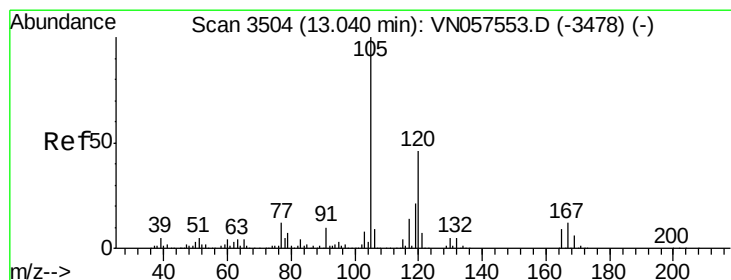
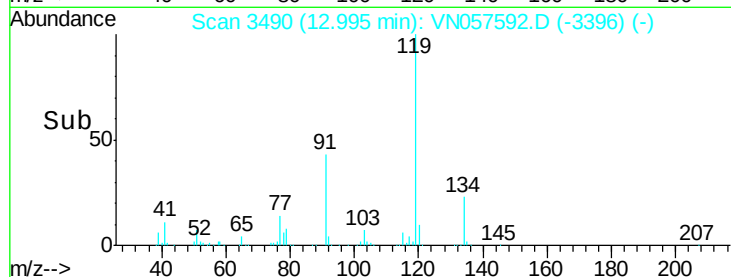
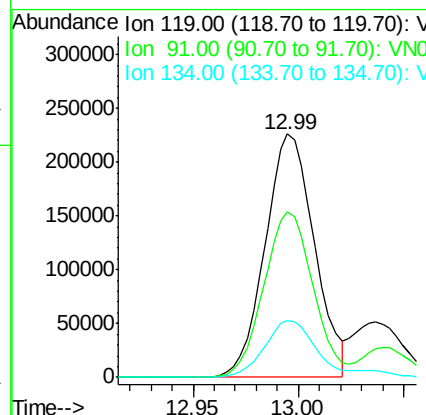
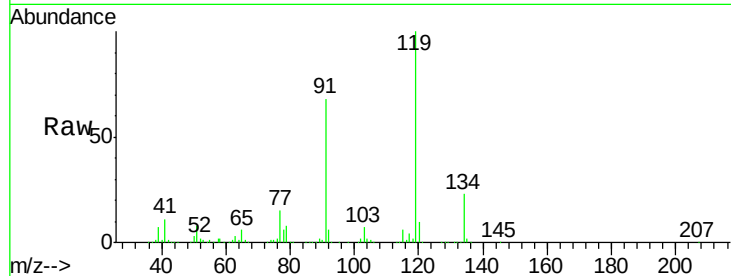
#83
 tert-Butylbenzene
 Concen: 19.742 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Instrument :
 MSVOA_N
 ClientSampled :
 VN0831WBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.2	37.0	111.0
134	24.2	12.2	36.6

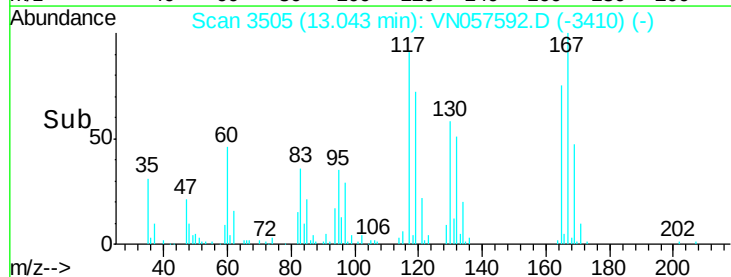
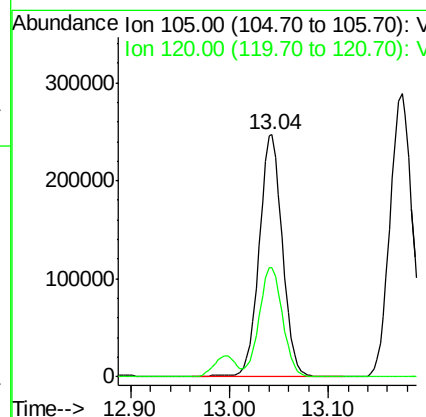
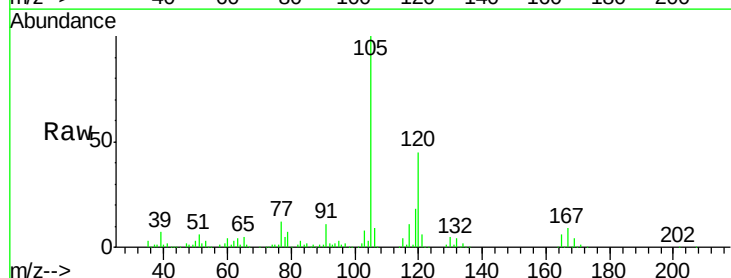
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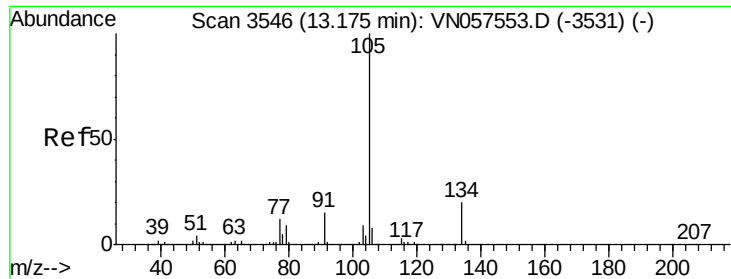
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#84
 1,2,4-Trimethylbenzene
 Concen: 19.789 ug/l
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.0	21.9	65.7





#85

sec-Butylbenzene

Concen: 18.841 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0831WBS01

Tot Ion:105 Resp: 456743

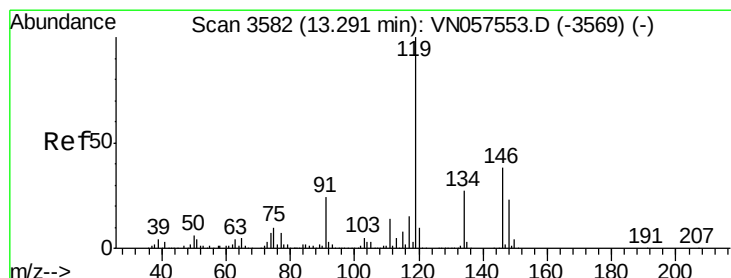
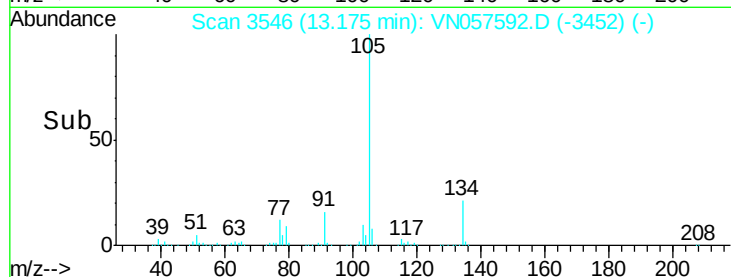
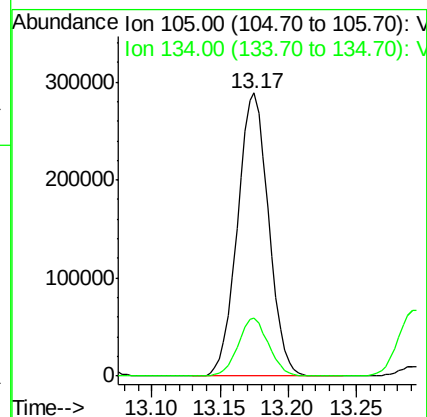
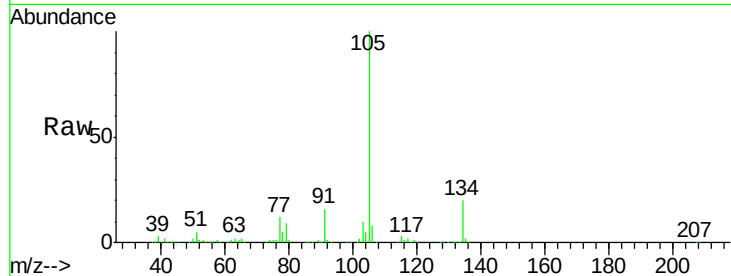
Ion Ratio Lower Upper

105 100

134 20.0 9.3 27.9

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#86

p-Isopropyltoluene

Concen: 19.653 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

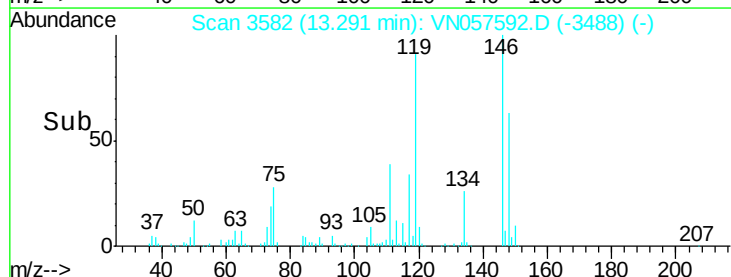
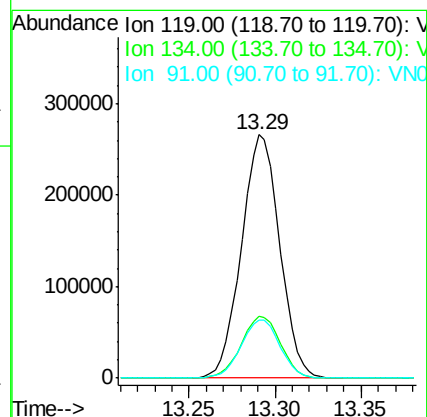
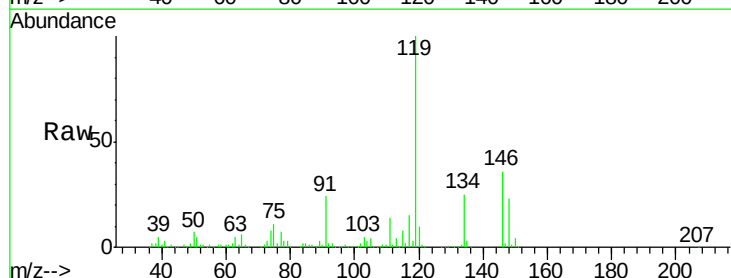
Tgt Ion:119 Resp: 409490

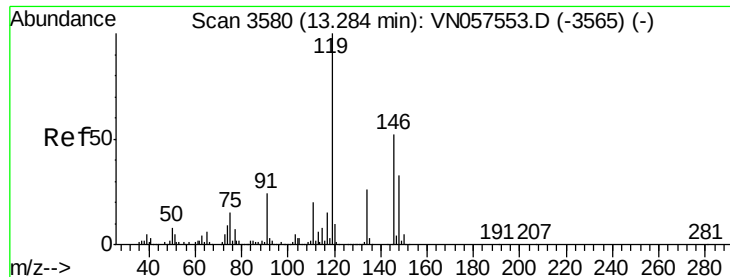
Ion Ratio Lower Upper

119 100

134 26.0 12.7 38.1

91 24.6 13.9 41.6





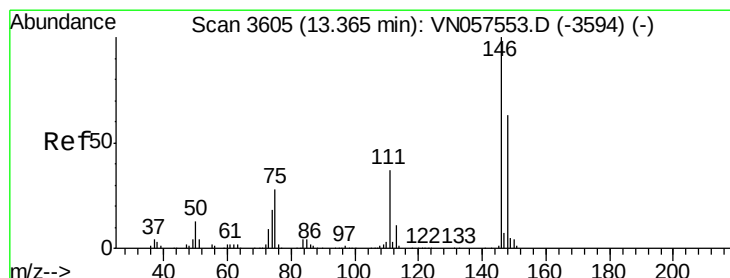
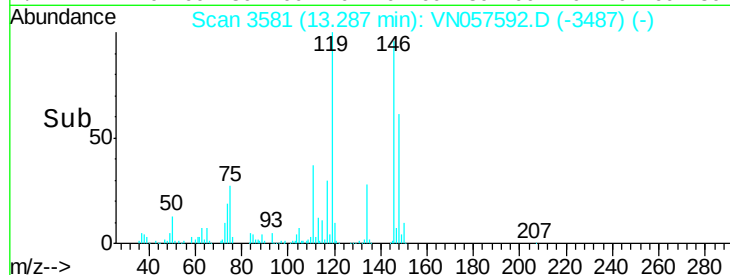
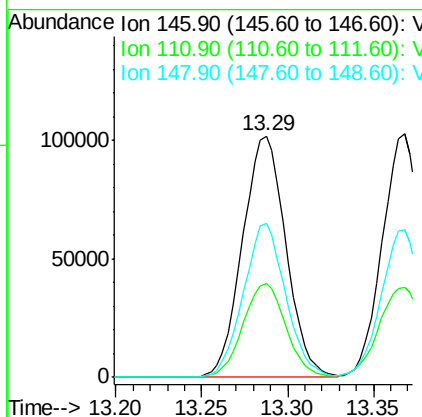
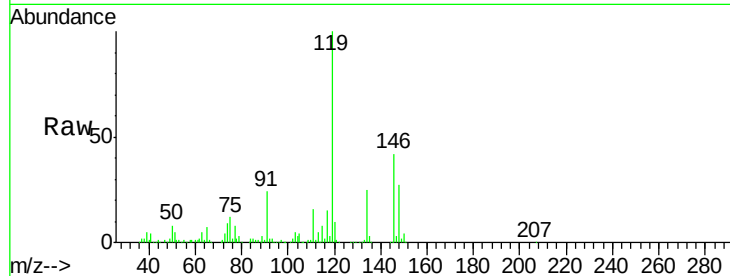
#87
 1,3-Dichlorobenzene
 Concen: 18.934 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Instrument :
 MSVOA_N
 ClientSampled :
 VN0831WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	22.1	66.1
148	62.3	31.9	95.9

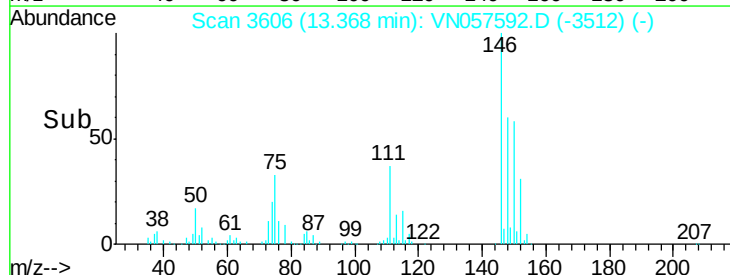
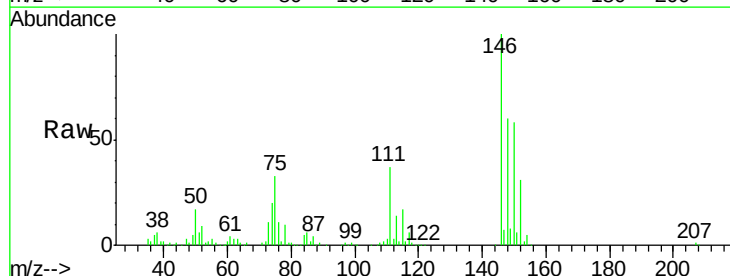
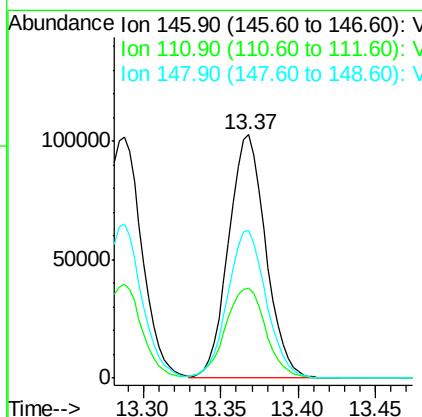
Manual Integrations
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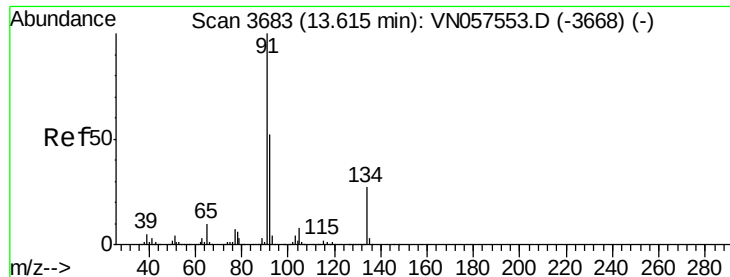
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#88
 1,4-Dichlorobenzene
 Concen: 18.928 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.9	65.5
148	63.1	31.1	93.2





#89

n-Butylbenzene

Concen: 19.272 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

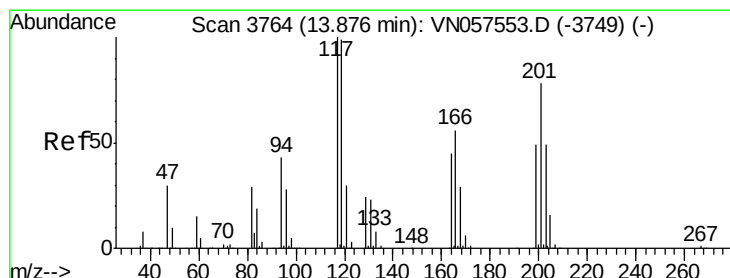
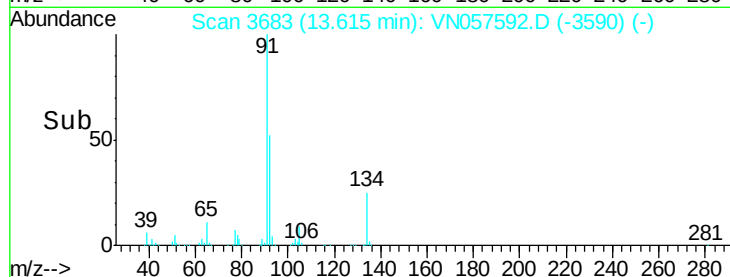
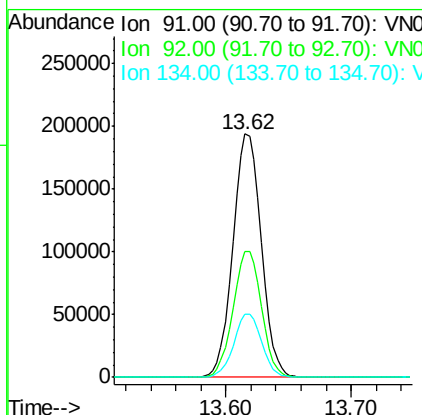
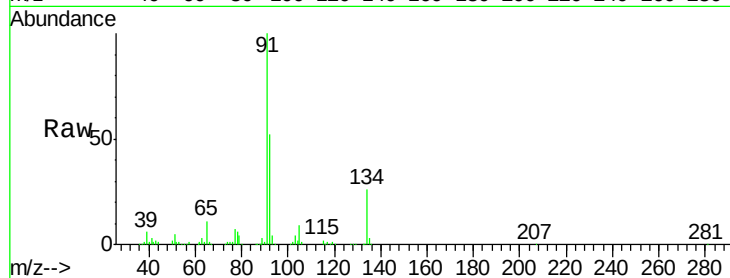
ClientSampleId :

VN0831WBS01

Tot Ion:	91	Resp:	304196
Ion	Ratio	Lower	Upper
91	100		
92	52.0	25.7	77.0
134	25.6	11.4	34.1

Manual Integrations
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#90

Hexachloroethane

Concen: 14.559 ug/l

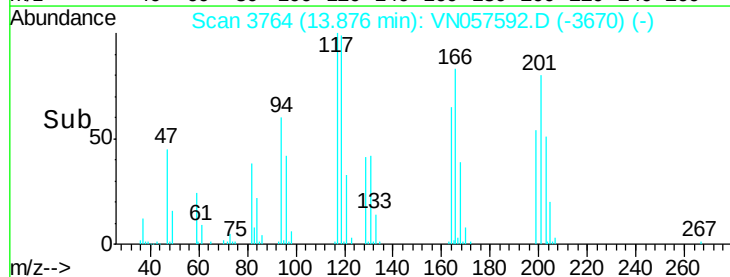
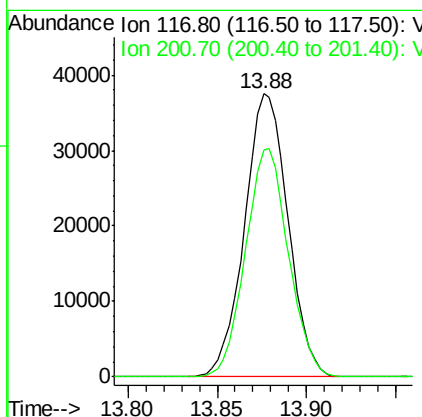
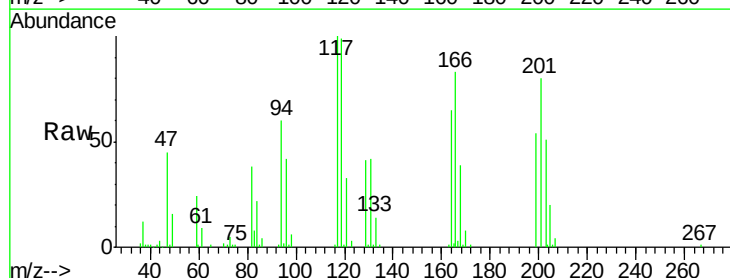
RT: 13.88 min Scan# 3764

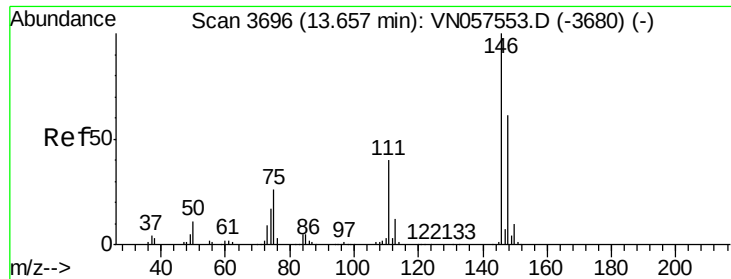
Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Tgt Ion:	117	Resp:	63837
Ion	Ratio	Lower	Upper
117	100		
201	79.6	33.1	99.3





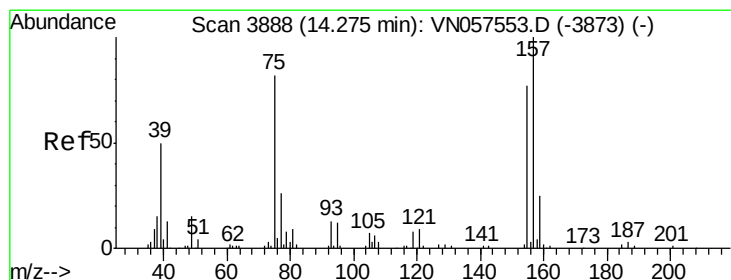
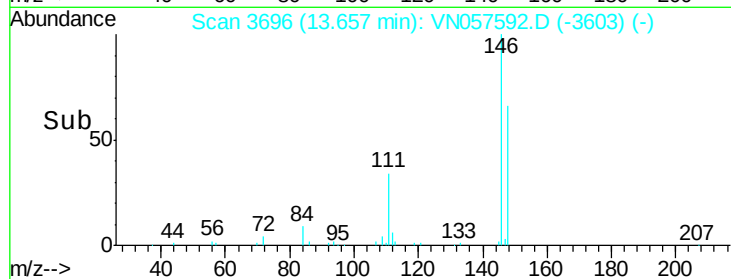
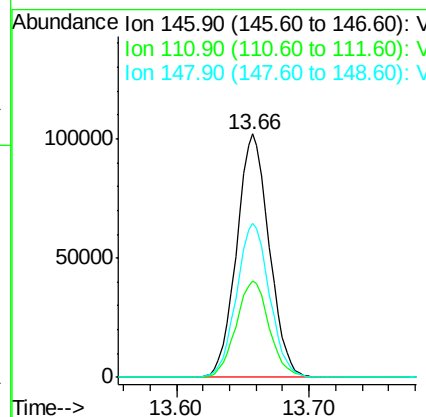
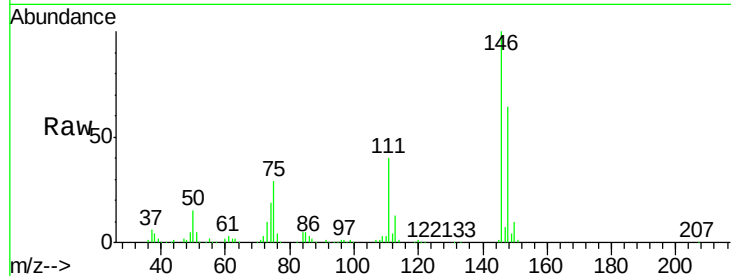
#91
 1,2-Dichlorobenzene
 Concen: 19.721 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	23.1	69.2
148	64.0	31.8	95.4

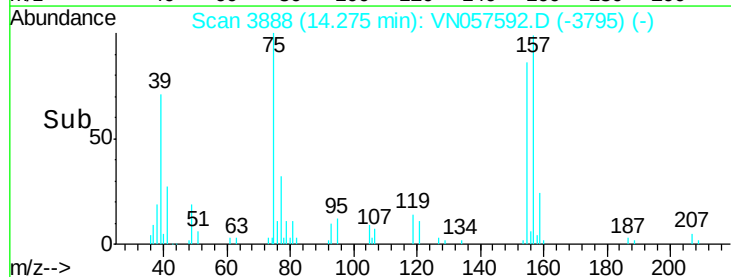
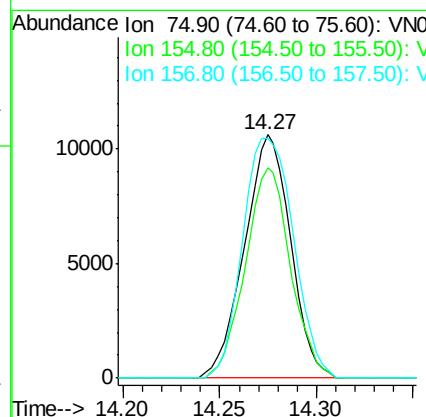
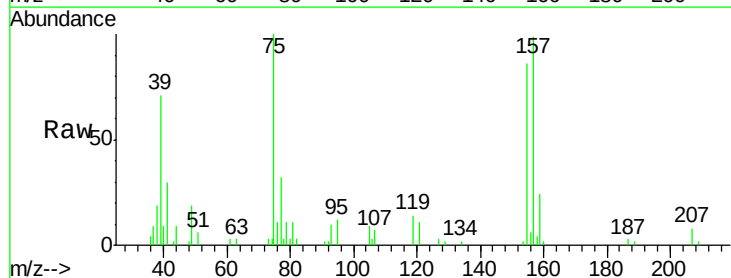
Manual Integrations
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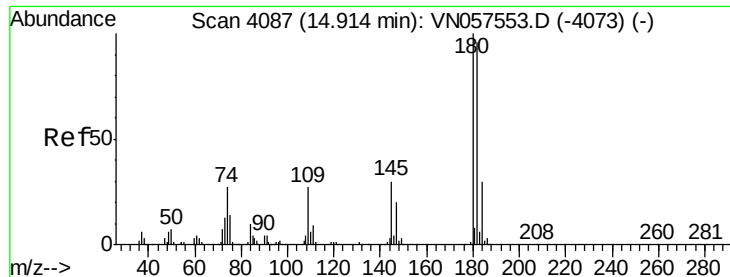
MMDadoda
 8/31/2019 11:28:43 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.838 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.7	31.6	94.7
157	108.7	43.3	129.8





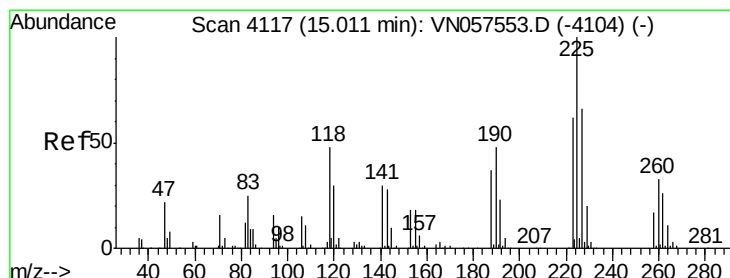
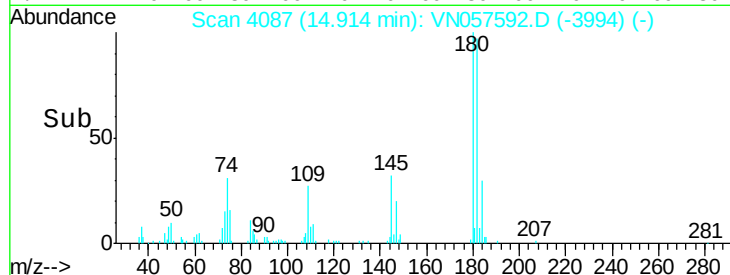
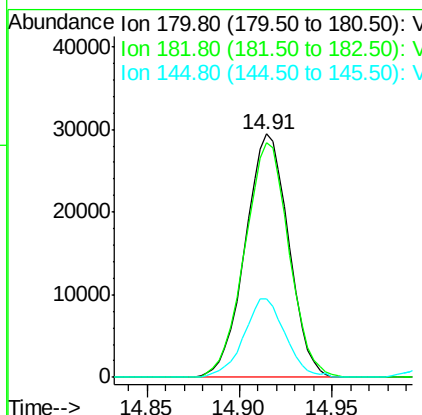
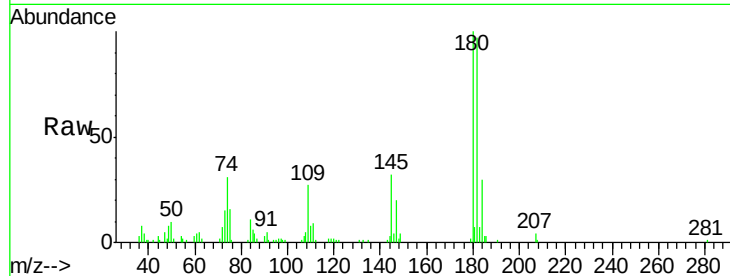
#93
 1,2,4-Trichlorobenzene
 Concen: 15.928 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	47989		
182	98.3	46.7	140.1	
145	31.2	15.6	46.8	

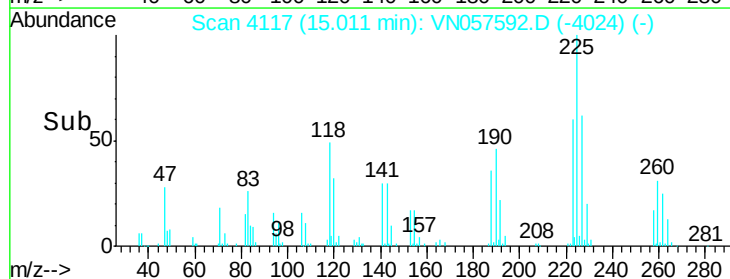
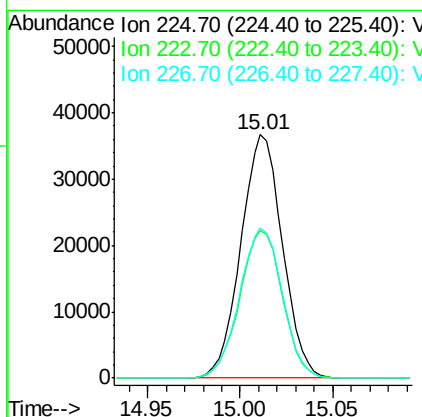
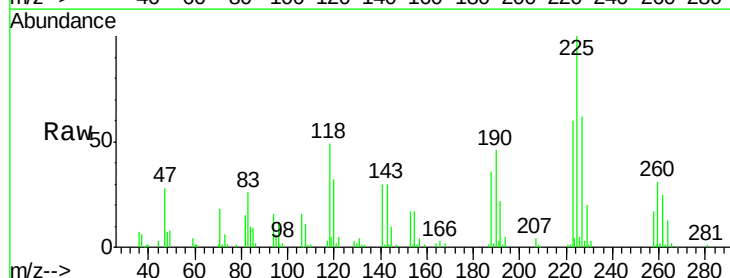
Manual Integrations
 APPROVED

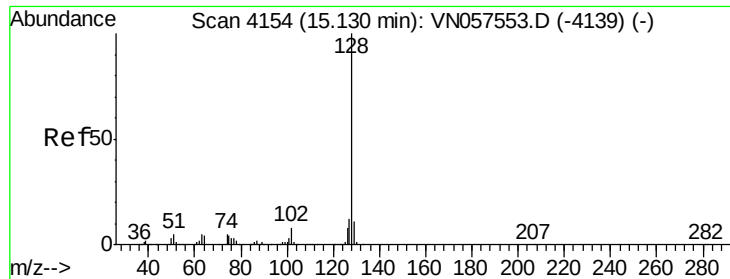
MMDadoda
 8/31/2019 11:28:43 AM



#94
 Hexachlorobutadiene
 Concen: 19.654 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057592.D
 Acq: 30 Aug 2019 17:05

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	57044		
223	62.2	32.0	96.2	
227	63.5	31.5	94.5	





#95

Naphthalene

Concen: 16.598 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Instrument :

MSVOA_N

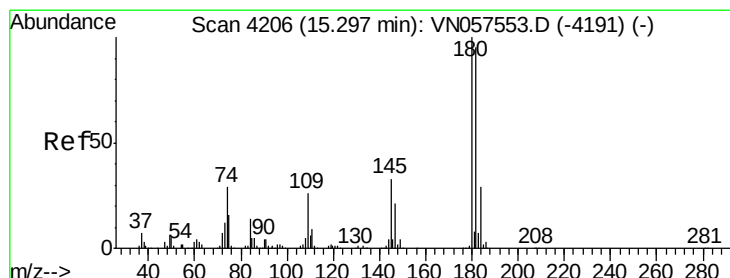
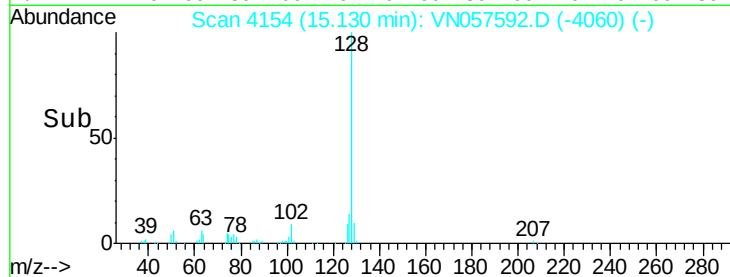
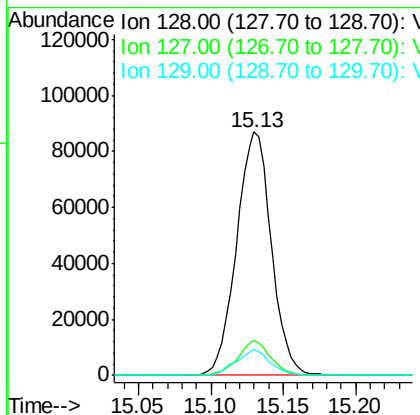
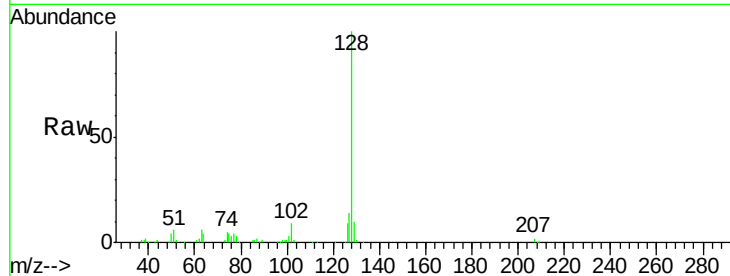
ClientSampleId :

VN0831WBS01

Tot Ion:	128	Resp:	144643
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.5	15.7
129	10.2	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
8/31/2019 11:28:43 AM



#96

1,2,3-Trichlorobenzene

Concen: 15.978 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057592.D

Acq: 30 Aug 2019 17:05

Tgt Ion:	180	Resp:	47556
Ion Ratio	Lower	Upper	
180	100		
182	96.9	46.7	140.1
145	31.3	16.8	50.3

