

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091619\
 Data File : VN058109.D
 Acq On : 16 Sep 2019 11:44
 Operator : JC/SP
 Sample : VN0916WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBS01

Manual Integrations
 APPROVED

MMDadoda
 9/18/2019 2:56:56 PM

Quant Time: Sep 17 04:01:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	316379	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	507755	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	476871	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	289961	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	331152	51.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.36%	
35) Dibromofluoromethane	7.58	113	236378	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
50) Toluene-d8	10.08	98	936049	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	
62) 4-Bromofluorobenzene	12.40	95	339598	48.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	91122	20.826	ug/l	100
3) Chloromethane	2.04	50	79407	17.806	ug/l	96
4) Vinyl Chloride	2.17	62	81854	17.343	ug/l	99
5) Bromomethane	2.54	94	44644	16.184	ug/l	95
6) Chloroethane	2.68	64	50437	16.770	ug/l	90
7) Trichlorofluoromethane	3.00	101	111654	18.798	ug/l	99
8) Diethyl Ether	3.39	74	50378	20.336	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	82451	22.005	ug/l	99
10) Methyl Iodide	3.93	142	75846	18.191	ug/l	98
11) Tert butyl alcohol	4.75	59	76941	99.205	ug/l	99
12) 1,1-Dichloroethene	3.72	96	65946	19.575	ug/l	98
13) Acrolein	3.59	56	5993	9.108	ug/l	98
14) Allyl chloride	4.30	41	127326	19.313	ug/l	98
15) Acrylonitrile	4.96	53	228218	107.057	ug/l	99
16) Acetone	3.80	43	203382	96.818	ug/l	98
17) Carbon Disulfide	4.03	76	88148	16.917	ug/l	99
18) Methyl Acetate	4.30	43	132856	23.720	ug/l	98
19) Methyl tert-butyl Ether	5.02	73	312004	22.254	ug/l	99
20) Methylene Chloride	4.53	84	91482	22.191	ug/l	98
21) trans-1,2-Dichloroethene	5.02	96	73146	20.085	ug/l	97
22) Diisopropyl ether	5.93	45	336002	21.732	ug/l	95
23) Vinyl Acetate	5.87	43	1208357	110.280	ug/l	99
24) 1,1-Dichloroethane	5.83	63	183263	21.688	ug/l	99
25) 2-Butanone	6.82	43	322897	106.202	ug/l	96
26) 2,2-Dichloropropane	6.81	77	136592	20.426	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	101356	20.768	ug/l	98
28) Bromochloromethane	7.18	49	86410	20.469	ug/l	93
29) Tetrahydrofuran	7.19	42	196543	104.907	ug/l	99
30) Chloroform	7.36	83	190118	21.519	ug/l	99
31) Cyclohexane	7.64	56	126944	20.737	ug/l	95
32) 1,1,1-Trichloroethane	7.55	97	148158	21.144	ug/l	98
36) 1,1-Dichloropropene	7.78	75	118125	20.060	ug/l	99
37) Ethyl Acetate	6.91	43	133227	21.898	ug/l	99
38) Carbon Tetrachloride	7.76	117	114589	21.314	ug/l	99

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Manual Integrations
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MMDadoda
 9/18/2019 2:56:56 PM

Quant Time: Sep 17 04:01:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	119693	19.336	ug/l	95
40) Benzene	8.03	78	373695	21.079	ug/l	98
41) Methacrylonitrile	7.15	41	60621	21.950	ug/l #	71
42) 1,2-Dichloroethane	8.11	62	155038	21.866	ug/l	100
43) Isopropyl Acetate	8.15	43	242272	23.679	ug/l	97
44) Trichloroethene	8.83	130	90758	20.872	ug/l	95
45) 1,2-Dichloropropane	9.11	63	111403	21.595	ug/l	95
46) Dibromomethane	9.20	93	68836	22.082	ug/l	99
47) Bromodichloromethane	9.40	83	138672	22.277	ug/l	99
48) Methyl methacrylate	9.19	41	110662	21.322	ug/l	97
49) 1,4-Dioxane	9.19	88	33328	379.729	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	705198	116.473	ug/l	99
52) Toluene	10.15	92	237325	21.254	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	138718	21.161	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	155333	21.462	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	106966	22.615	ug/l	95
56) Ethyl methacrylate	10.43	69	153843	21.599	ug/l	97
57) 1,3-Dichloropropane	10.71	76	175678	21.552	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.69	63	334515	99.715	ug/l	100
59) 2-Hexanone	10.75	43	492298	108.480	ug/l	100
60) Dibromochloromethane	10.90	129	96329	21.932	ug/l	99
61) 1,2-Dibromoethane	11.00	107	98402	22.006	ug/l	97
64) Tetrachloroethene	10.63	164	71245	20.234	ug/l	99
65) Chlorobenzene	11.43	112	267675	21.448	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	95483	22.049	ug/l	98
67) Ethyl Benzene	11.51	91	483825	22.121	ug/l	99
68) m/p-Xylenes	11.62	106	351627	43.890	ug/l	98
69) o-Xylene	11.95	106	178667	22.432	ug/l	97
70) Styrene	11.97	104	304861	22.241	ug/l	98
71) Bromoform	12.13	173	57826	21.418	ug/l #	99
73) Isopropylbenzene	12.25	105	489877	21.772	ug/l	100
74) N-amyl acetate	12.07	43	204961	20.931	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	161449	21.311	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	138452m	21.107	ug/l	
77) Bromobenzene	12.53	156	122960	21.919	ug/l	90
78) n-propylbenzene	12.60	91	571753	22.129	ug/l	100
79) 2-Chlorotoluene	12.68	91	337558	20.671	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	417824	21.978	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	36003	19.315	ug/l	90
82) 4-Chlorotoluene	12.78	91	353144	21.059	ug/l	99
83) tert-Butylbenzene	13.00	119	357028	21.127	ug/l	99
84) 1,2,4-Trimethylbenzene	13.05	105	417390	21.602	ug/l	98
85) sec-Butylbenzene	13.18	105	493188	22.019	ug/l	99
86) p-Isopropyltoluene	13.29	119	439157	22.252	ug/l	100
87) 1,3-Dichlorobenzene	13.29	146	216482	21.024	ug/l	98
88) 1,4-Dichlorobenzene	13.37	146	214878	20.559	ug/l	98
89) n-Butylbenzene	13.62	91	397419	21.324	ug/l	100
90) Hexachloroethane	13.88	117	59999	20.442	ug/l	97
91) 1,2-Dichlorobenzene	13.66	146	217937	21.186	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.28	75	26946	21.538	ug/l	94

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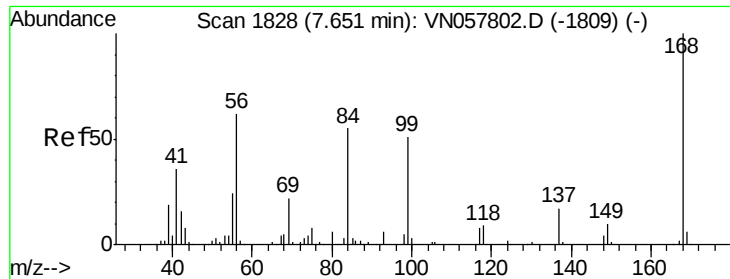
Manual Integrations
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	139605	20.763	ug/l	99
94) Hexachlorobutadiene	15.02	225	59830	20.992	ug/l	98
95) Naphthalene	15.13	128	393482	22.311	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	130573	22.799	ug/l	100

(#) = 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: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

ClientSampled :

VN0916WBS01

Tot Ion:168 Resp: 316379

Ion Ratio Lower Upper

168 100

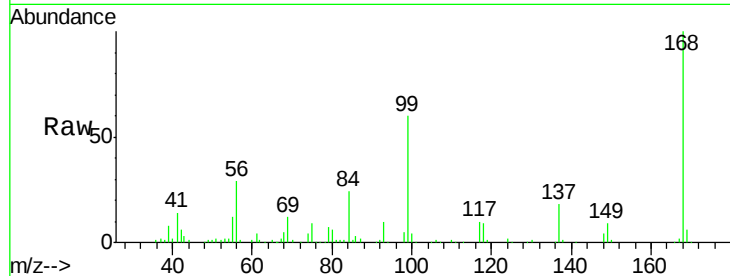
99 60.1 48.0 72.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

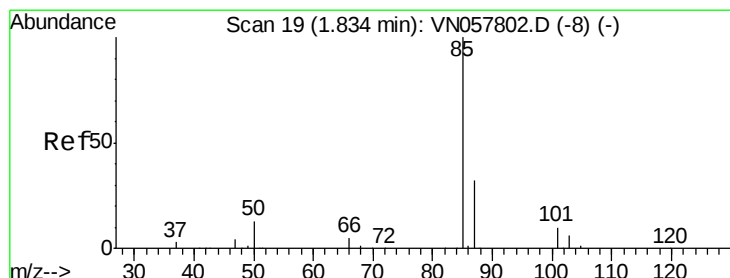
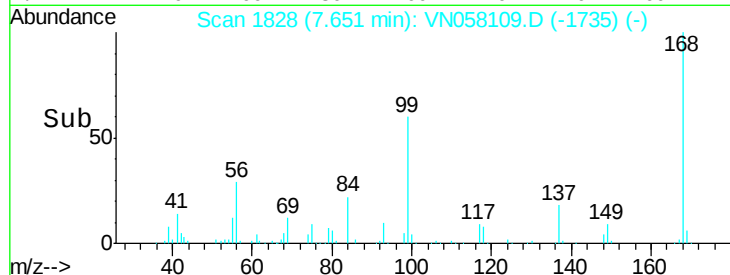
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 20.826 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058109.D

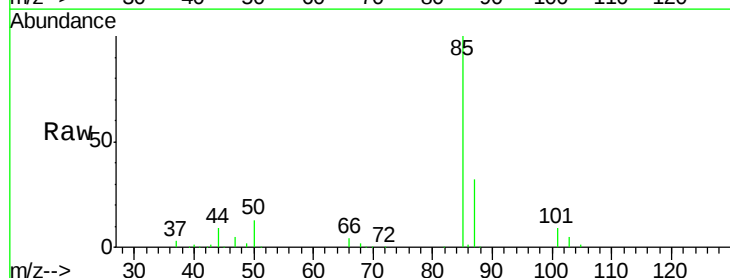
Acq: 16 Sep 2019 11:44

Tgt Ion: 85 Resp: 91122

Ion Ratio Lower Upper

85 100

87 31.9 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

80000

60000

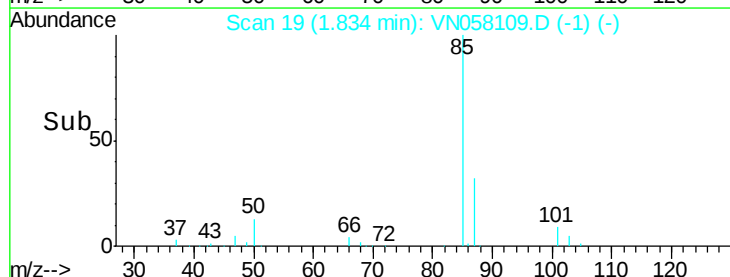
40000

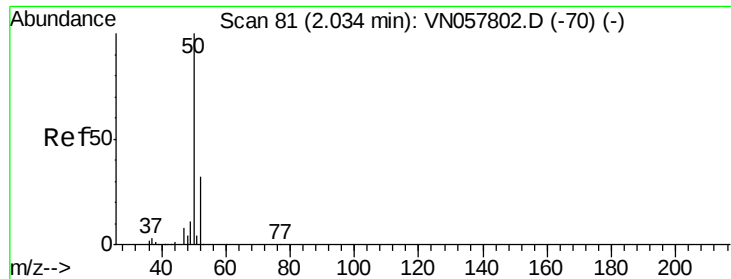
20000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 17.806 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0916WBS01

Tot Ion: 50 Resp: 79407

Ion Ratio Lower Upper

50 100

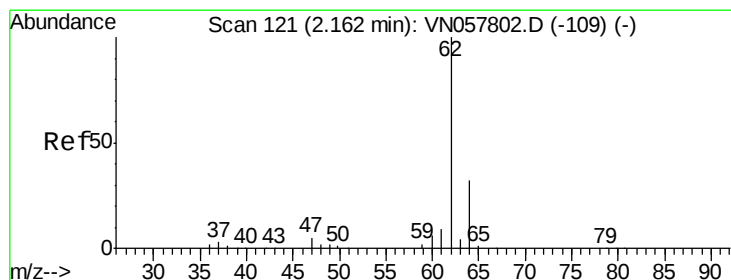
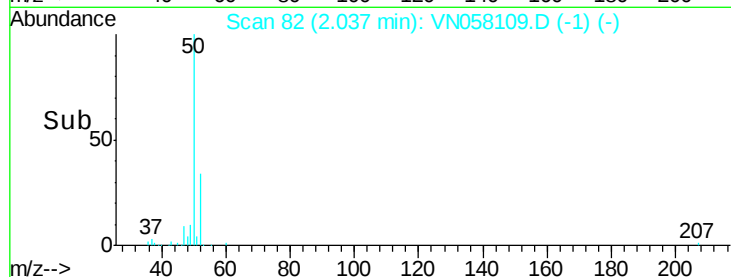
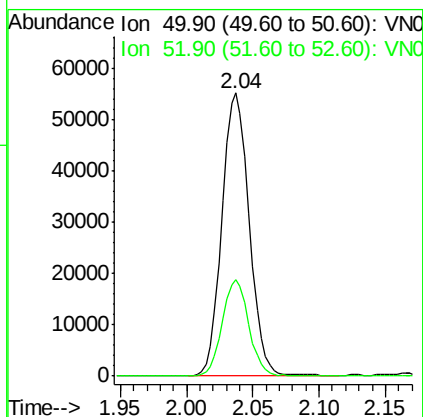
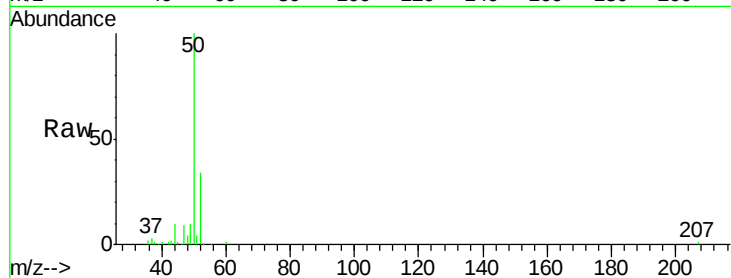
52 34.1 25.5 38.3

Manual Integrations

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#4

Vinyl Chloride

Concen: 17.343 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.01 min

Lab File: VN058109.D

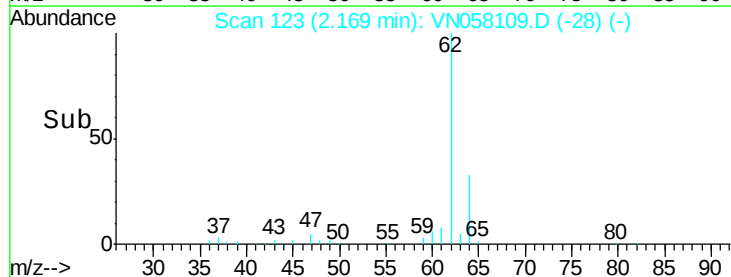
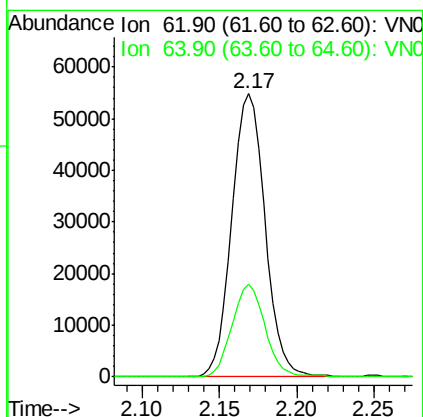
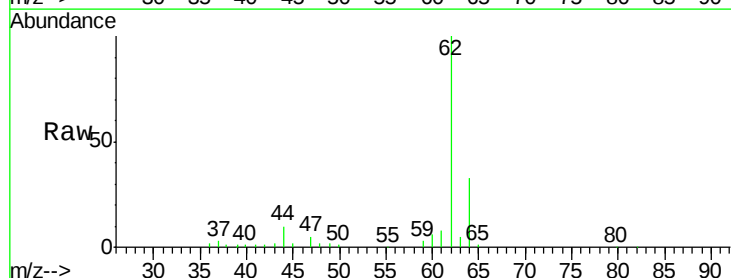
Acq: 16 Sep 2019 11:44

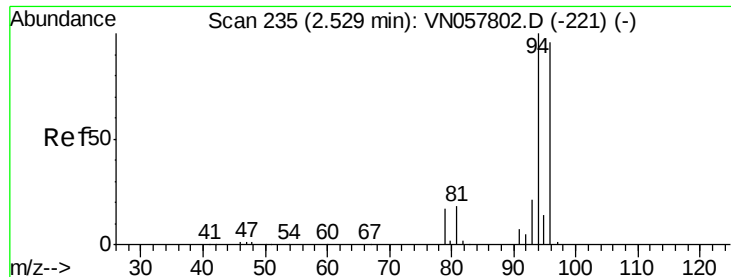
Tgt Ion: 62 Resp: 81854

Ion Ratio Lower Upper

62 100

64 32.8 25.6 38.4





#5

Bromomethane

Concen: 16.184 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0916WBS01

Tot Ion: 94 Resp: 44644

Ion Ratio Lower Upper

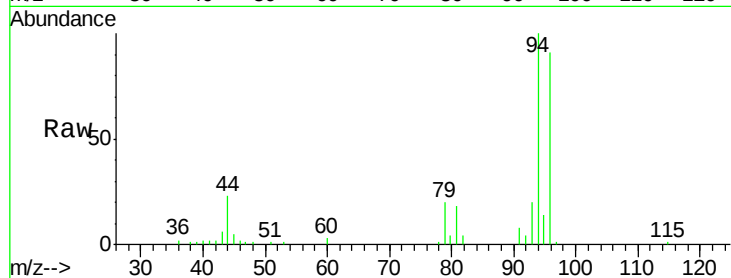
94 100

96 91.2 77.0 115.4

Manual Integrations
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

25000

20000

15000

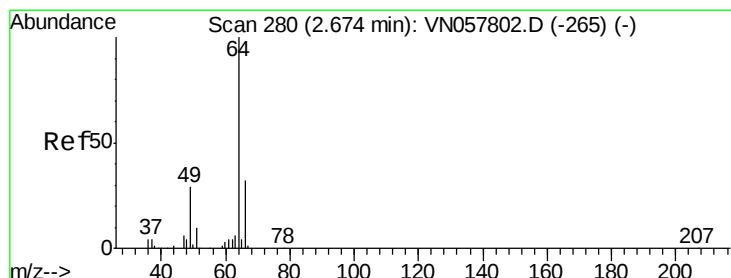
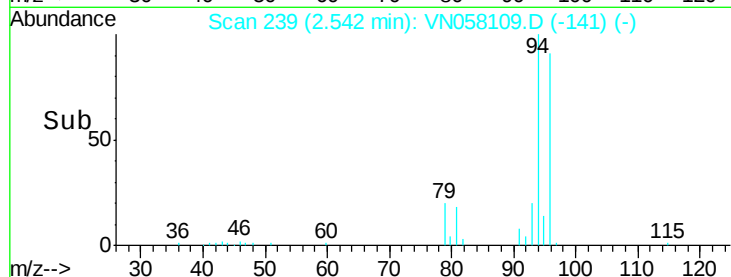
10000

5000

0

2.45 2.50 2.55 2.60 2.65

Time-->



#6

Chloroethane

Concen: 16.770 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.01 min

Lab File: VN058109.D

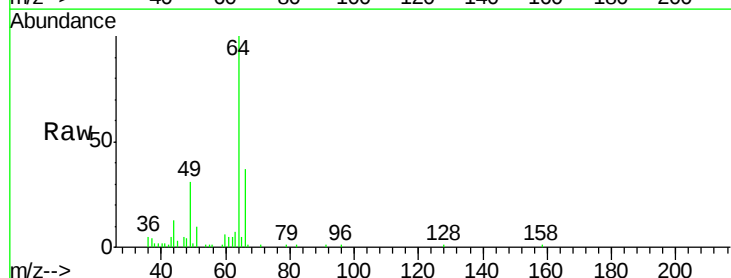
Acq: 16 Sep 2019 11:44

Tgt Ion: 64 Resp: 50437

Ion Ratio Lower Upper

64 100

66 37.5 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

30000

25000

20000

15000

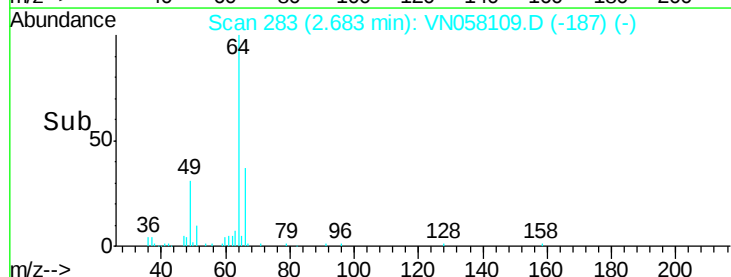
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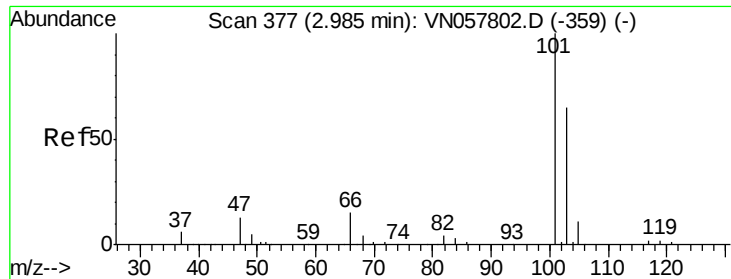
5000

0

2.60 2.65 2.70 2.75

Time-->





#7

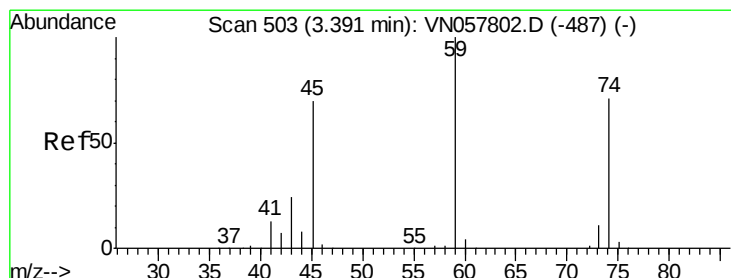
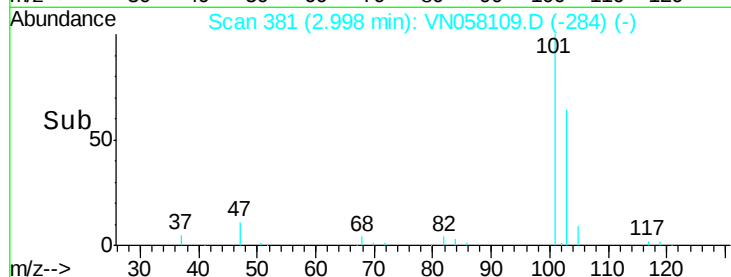
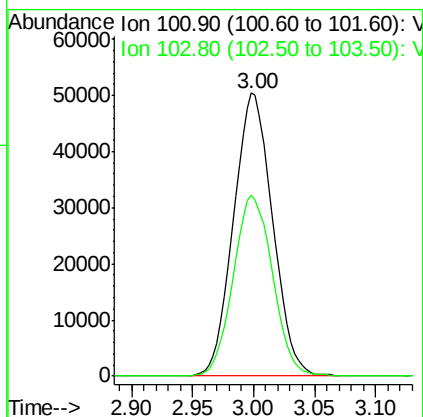
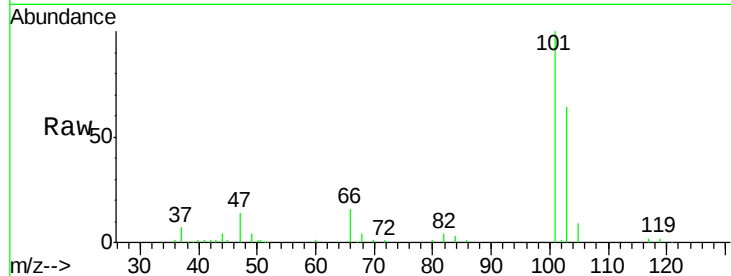
Trichlorofluoromethane
Concen: 18.798 ug/l
RT: 3.00 min Scan# 381
Delta R.T. 0.01 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion:101 Resp: 111654
Ion Ratio Lower Upper
101 100
103 63.9 51.9 77.9

Manual Integrations
APPROVED

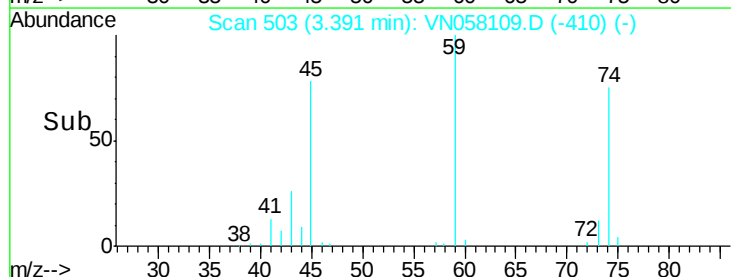
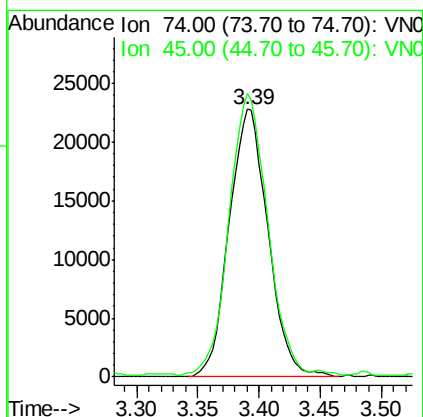
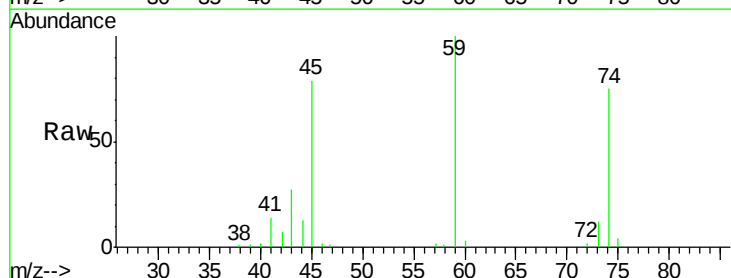
MMDadoda
9/18/2019 2:56:56 PM

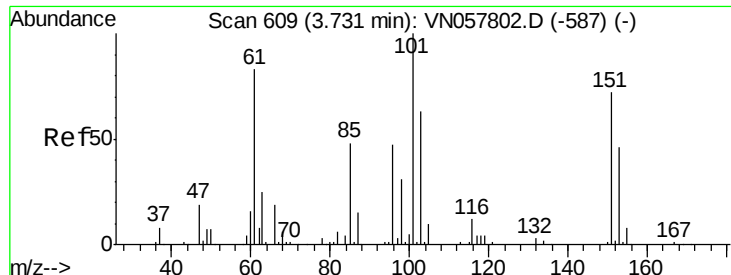


#8

Diethyl Ether
Concen: 20.336 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion: 74 Resp: 50378
Ion Ratio Lower Upper
74 100
45 104.2 50.3 151.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.005 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

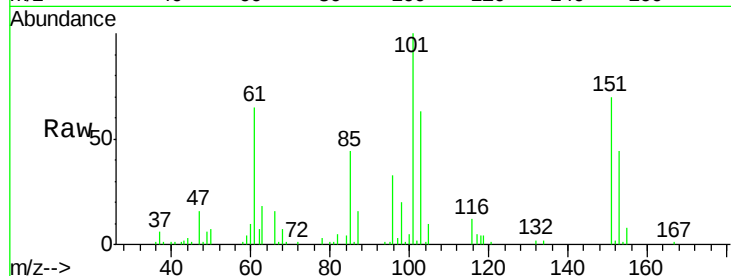
ClientSampled :

VN0916WBS01

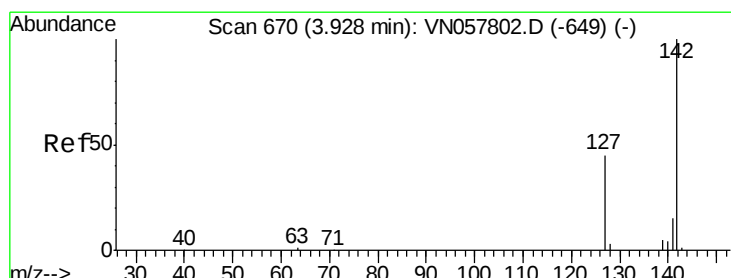
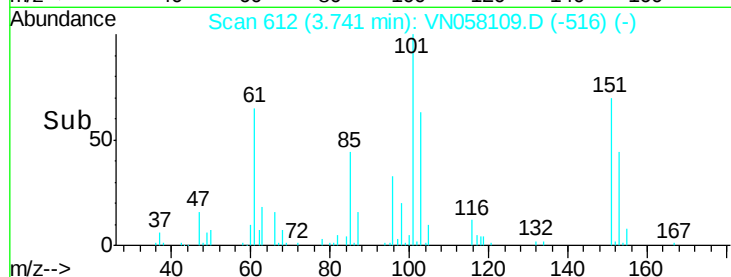
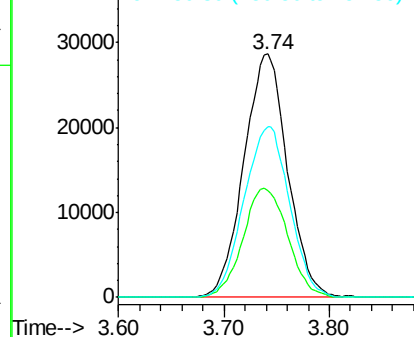
Tot Ion:	101	Resp:	82451
Ion Ratio	Lower	Upper	
101	100		
85	46.0	38.1	57.1
151	73.1	58.4	87.6

Manual Integrations
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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: 18.191 ug/l

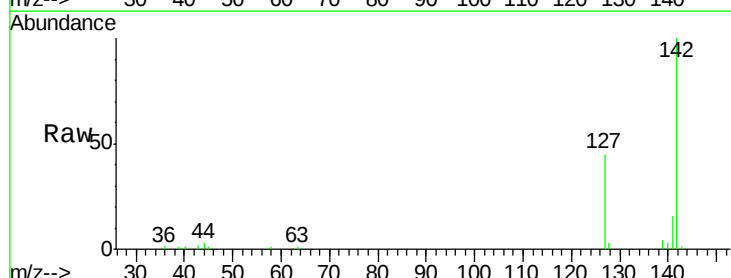
RT: 3.93 min Scan# 671

Delta R.T. 0.00 min

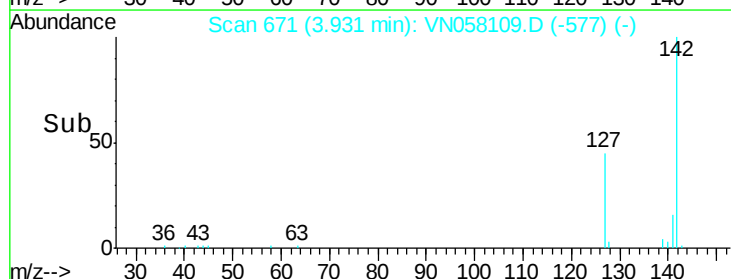
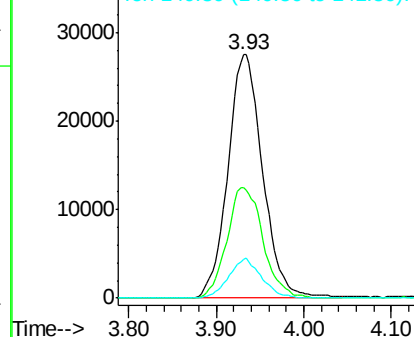
Lab File: VN058109.D

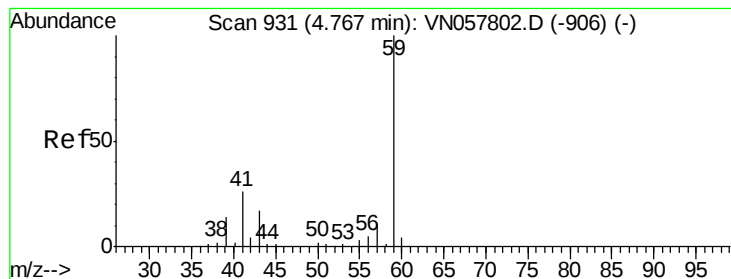
Acq: 16 Sep 2019 11:44

Tgt Ion:	142	Resp:	75846
Ion Ratio	Lower	Upper	
142	100		
127	47.0	36.7	55.1
141	15.3	11.4	17.0



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

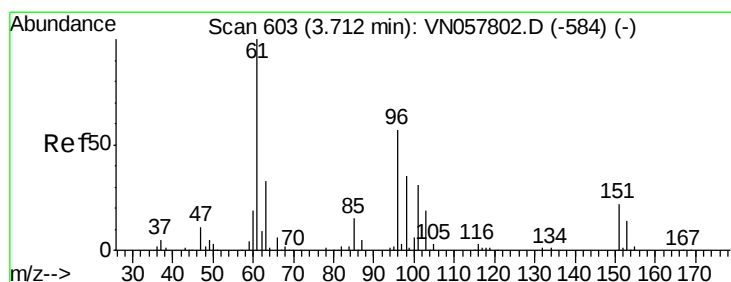
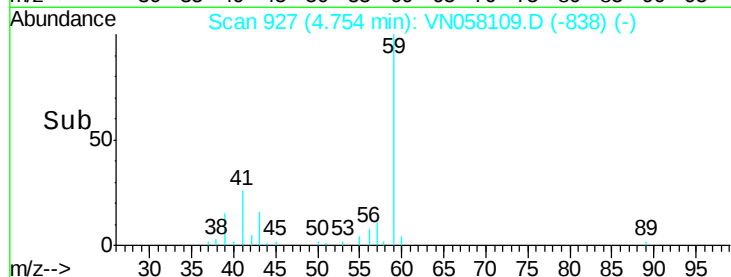
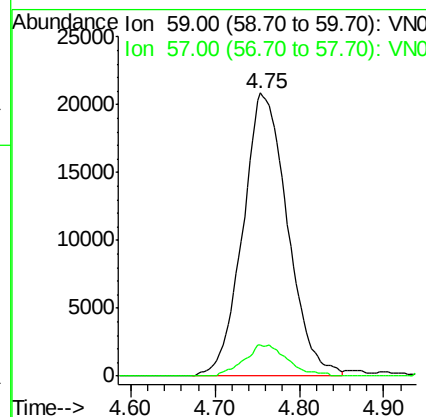
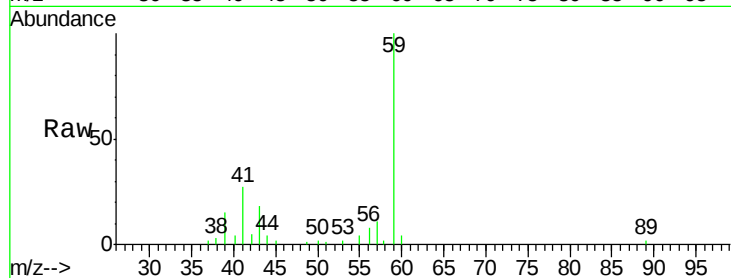
Tert butyl alcohol
 Concen: 99.205 ug/l
 RT: 4.75 min Scan# 927
 Delta R.T. -0.01 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBS01

Tot Ion	59	57	Ratio	100	10.7	Resp	76941	Lower	Upper
59	100								
57		10.7						8.4	12.6

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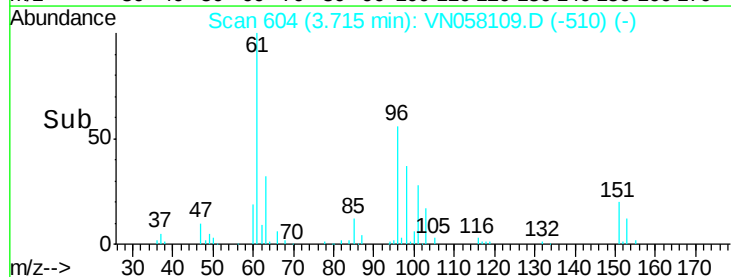
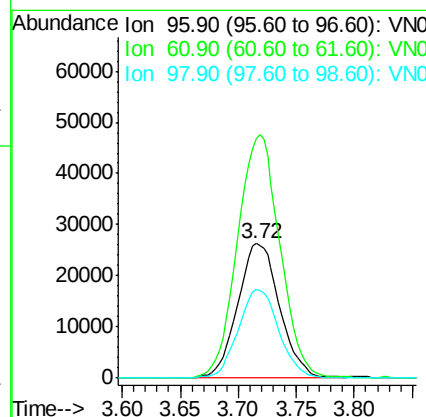
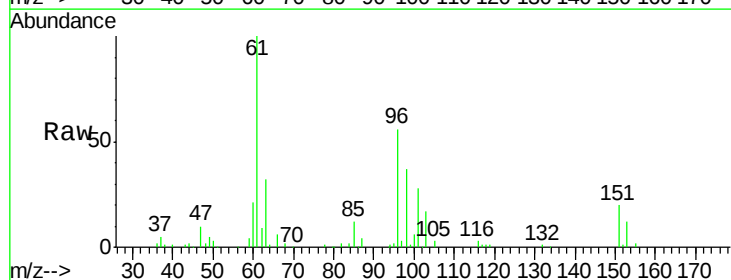
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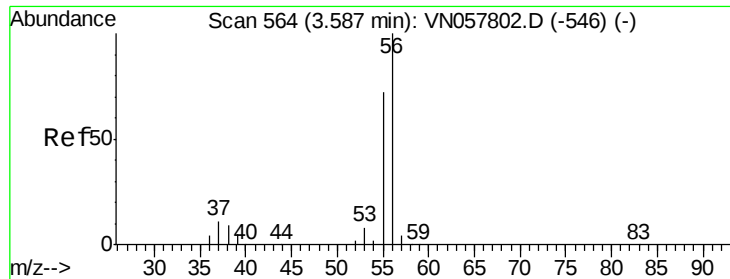


#12

1,1-Dichloroethene
 Concen: 19.575 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Tgt Ion	96	61	98	Ratio	100	178.4	66.0	Resp	65946	Lower	Upper
96	100										
61		178.4								141.2	211.8
98		66.0								49.9	74.9





#13

Acrolein

Concen: 9.108 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0916WBS01

Tot Ion: 56 Resp: 5993

Ion Ratio Lower Upper

56 100

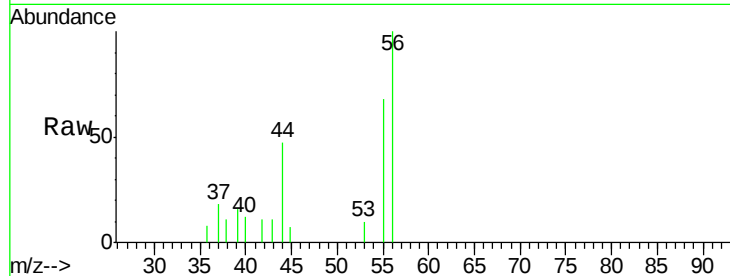
55 69.6 57.3 85.9

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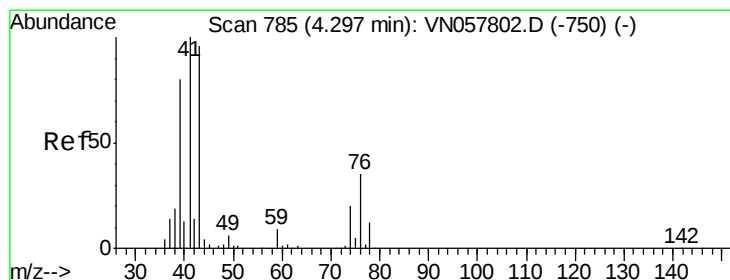
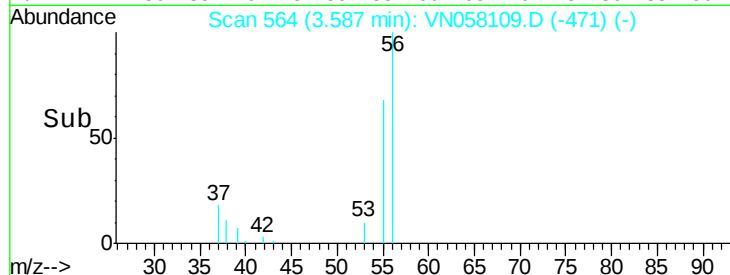
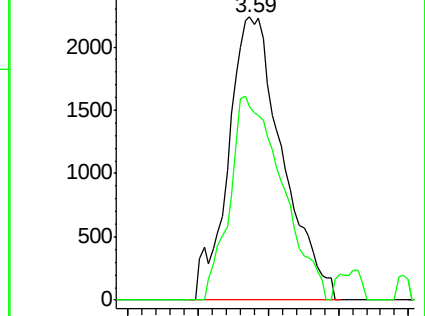
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 19.313 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

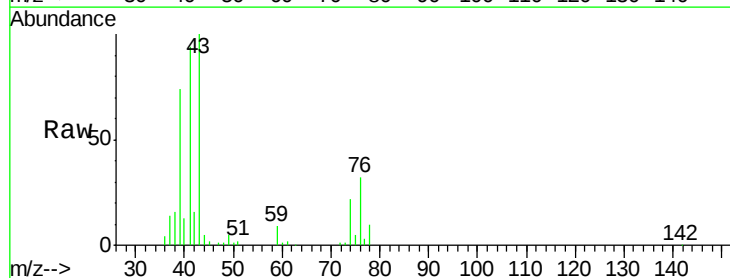
Tgt Ion: 41 Resp: 127326

Ion Ratio Lower Upper

41 100

39 76.7 59.4 89.2

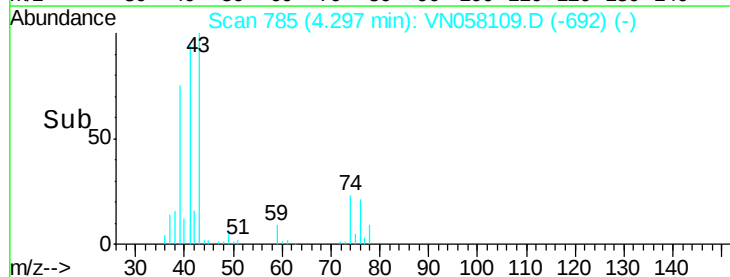
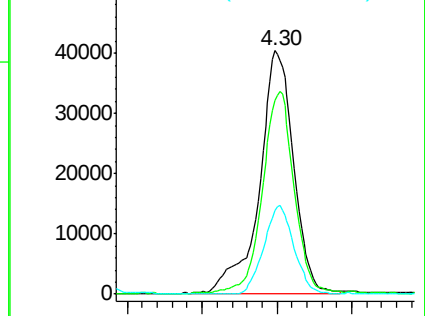
76 32.3 26.0 39.0



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





#15

Acrylonitrile

Concen: 107.057 ug/l

RT: 4.96 min Scan# 992

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

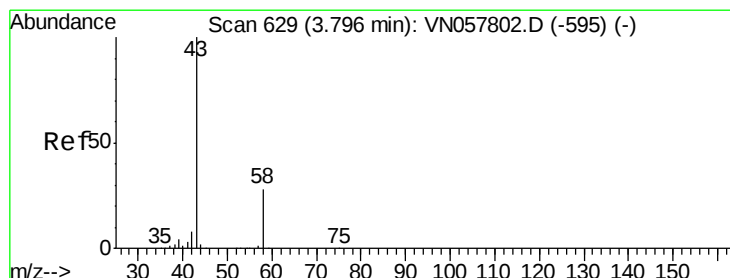
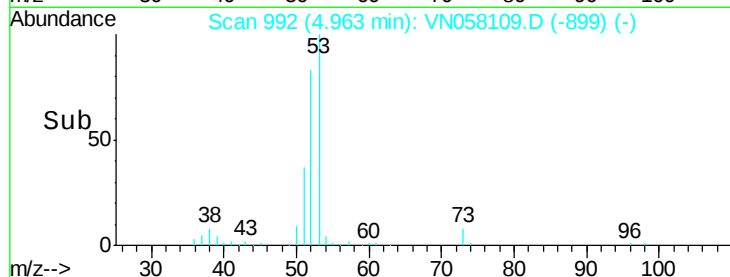
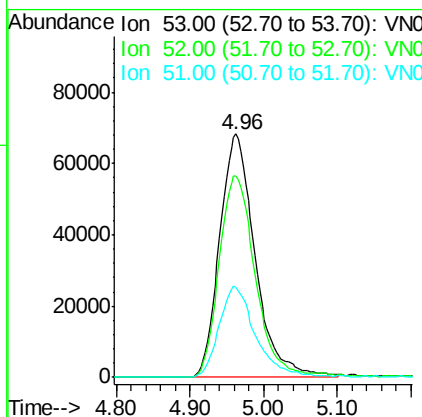
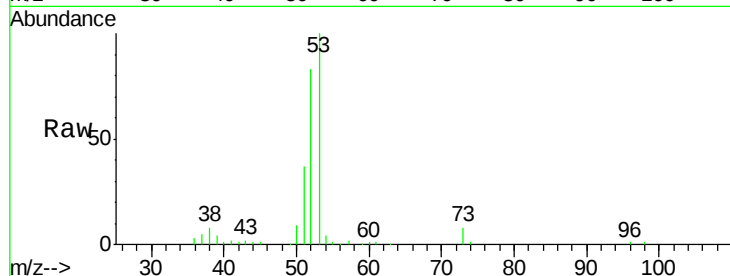
ClientSampleId :

VN0916WBS01

Tot Ion:	53	Resp:	228218
Ion	Ratio	Lower	Upper
53	100		
52	83.9	66.6	100.0
51	38.4	29.8	44.8

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#16

Acetone

Concen: 96.818 ug/l

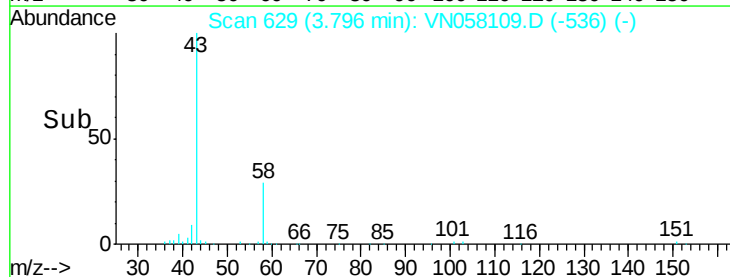
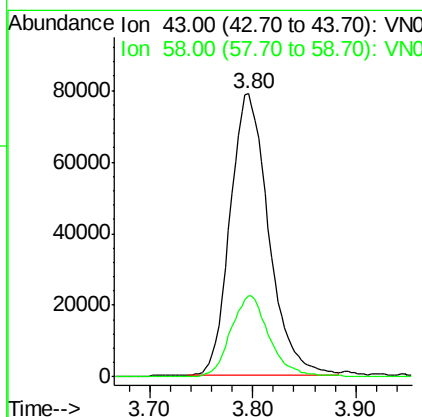
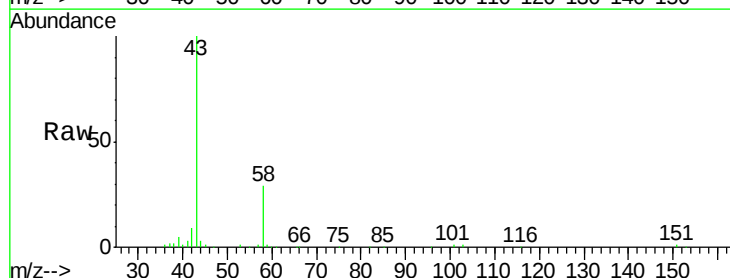
RT: 3.80 min Scan# 629

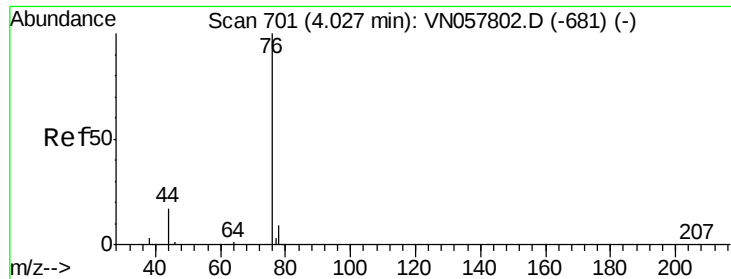
Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Tgt Ion:	43	Resp:	203382
Ion	Ratio	Lower	Upper
43	100		
58	28.9	22.2	33.2





#17

Carbon Disulfide

Concen: 16.917 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.01 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0916WBS01

Tot Ion: 76 Resp: 88148

Ion Ratio Lower Upper

76 100

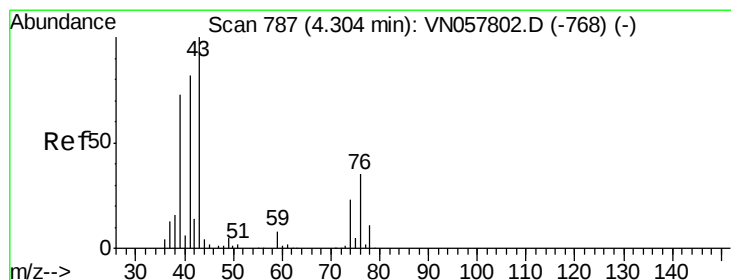
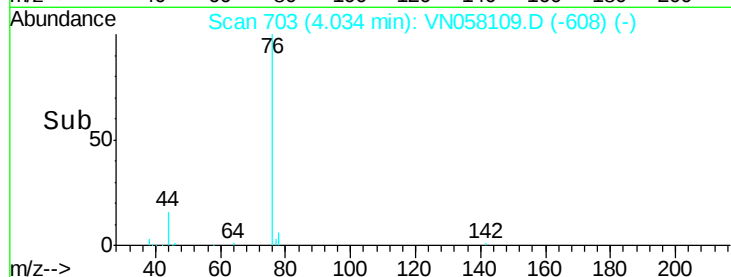
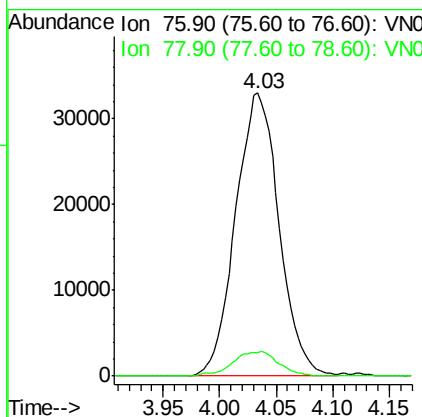
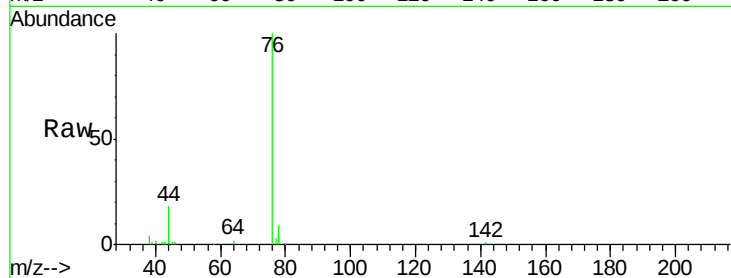
78 8.5 7.1 10.7

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#18

Methyl Acetate

Concen: 23.720 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN058109.D

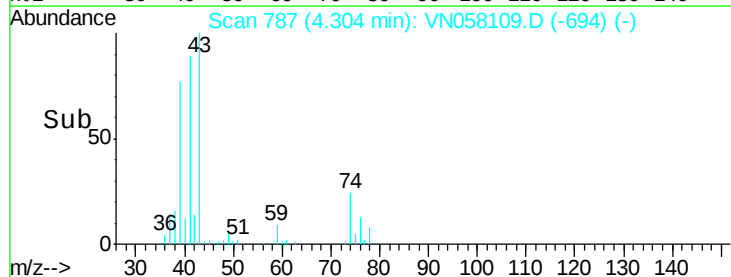
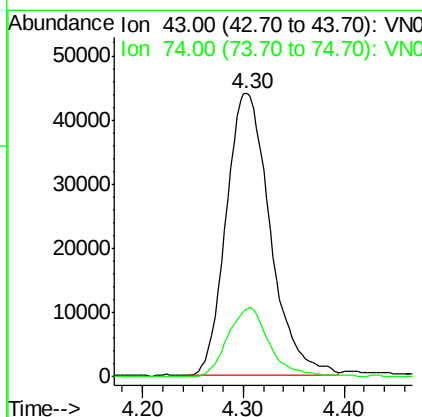
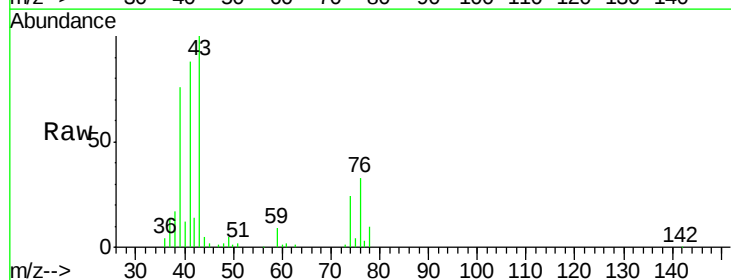
Acq: 16 Sep 2019 11:44

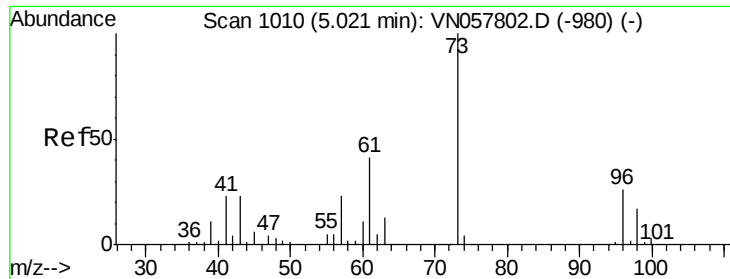
Tgt Ion: 43 Resp: 132856

Ion Ratio Lower Upper

43 100

74 23.1 17.9 26.9





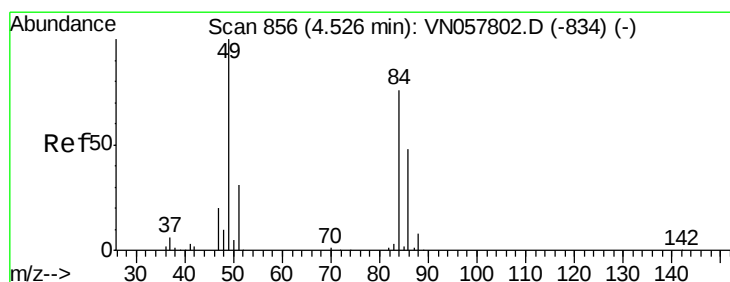
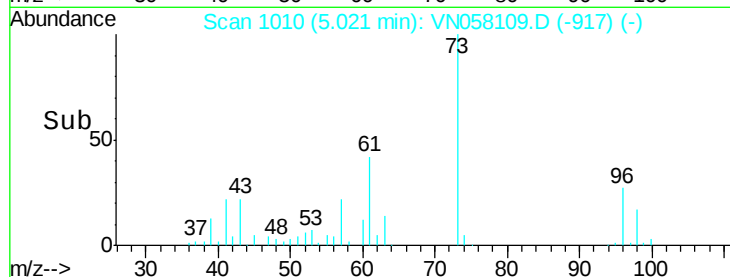
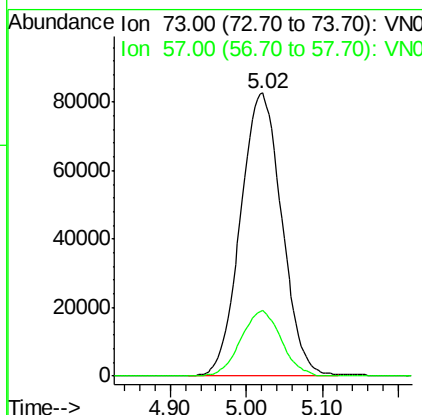
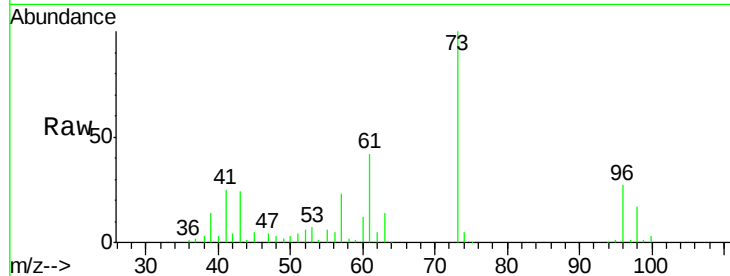
#19
Methvl tert-butvl Ether
Concen: 22.254 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion: 73 Resp: 312004
Ion Ratio Lower Upper
73 100
57 23.0 18.2 27.2

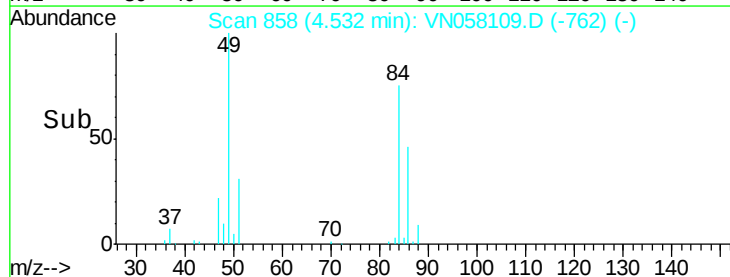
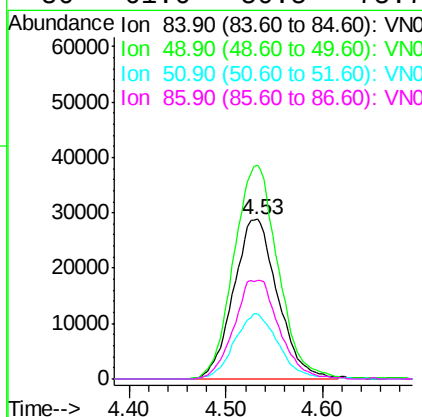
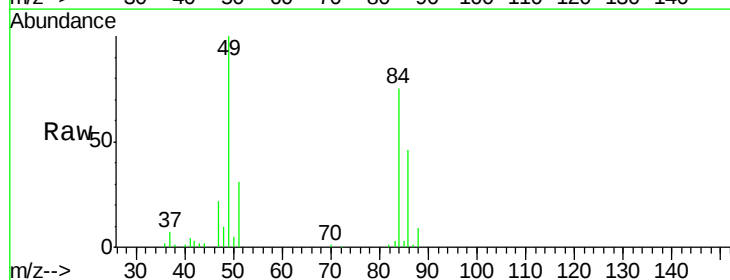
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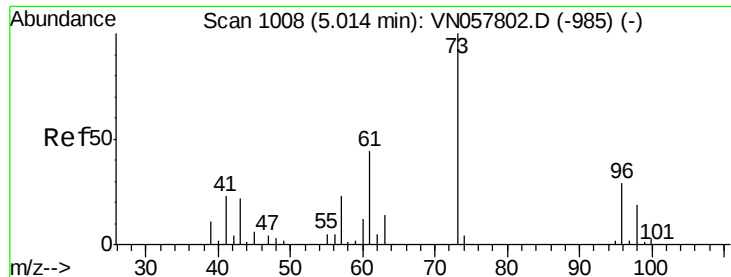
MMDadoda
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#20
Methylene Chloride
Concen: 22.191 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion: 84 Resp: 91482
Ion Ratio Lower Upper
84 100
49 133.8 104.8 157.2
51 41.0 33.0 49.4
86 61.6 50.5 75.7





#21

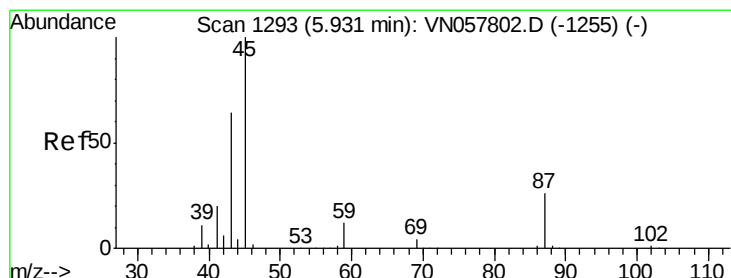
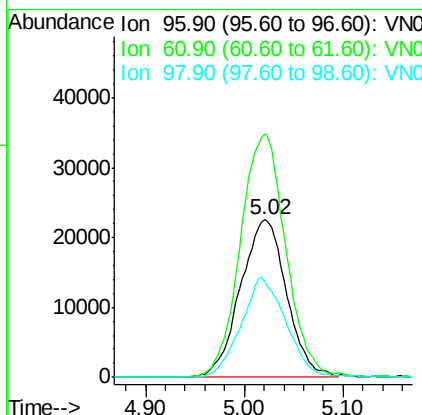
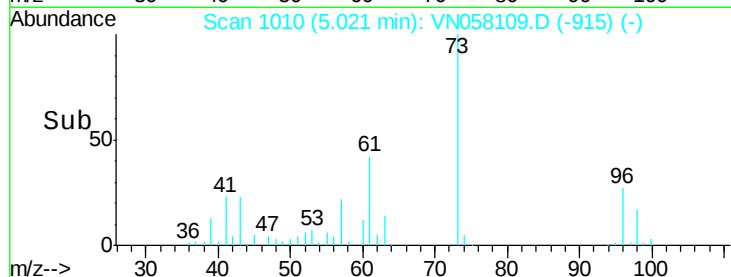
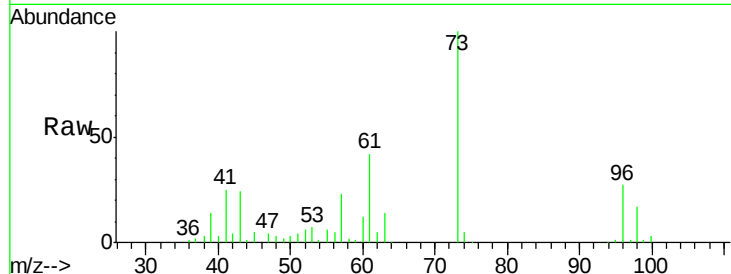
trans-1,2-Dichloroethene
Concen: 20.085 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.01 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.7	121.9	182.9
98	60.7	52.2	78.4

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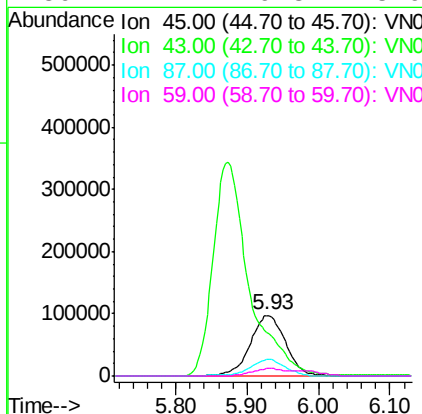
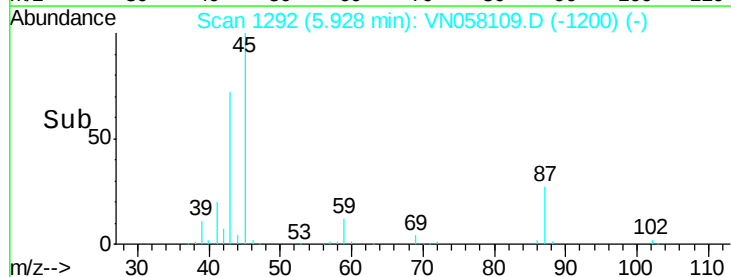
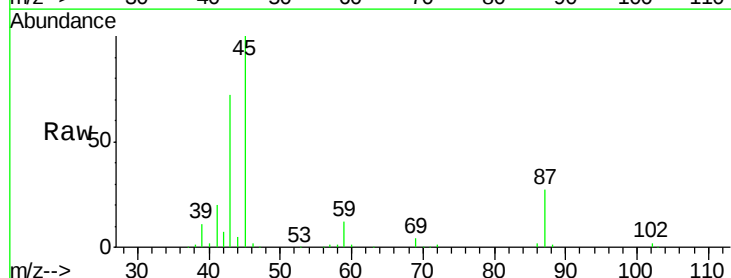
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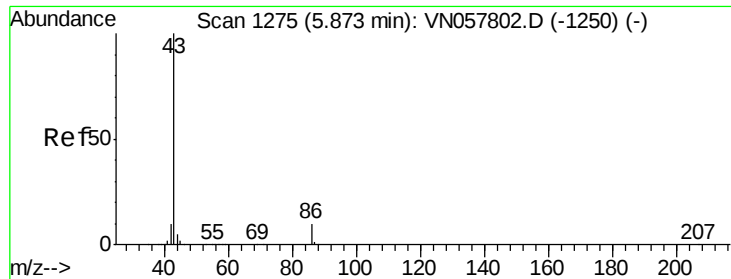


#22

Diisopropyl ether
Concen: 21.732 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. -0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Lower	Upper
45	100		
43	70.4	51.4	77.2
87	26.9	21.3	31.9
59	11.7	9.3	13.9





#23

Vinyl Acetate

Concen: 110.280 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0916WBS01

Tot Ion: 43 Resp: 1208357

Ion Ratio Lower Upper

43 100

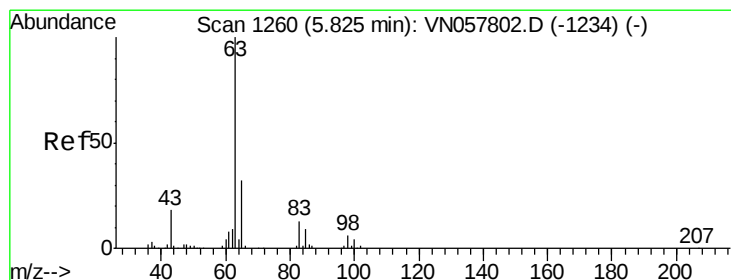
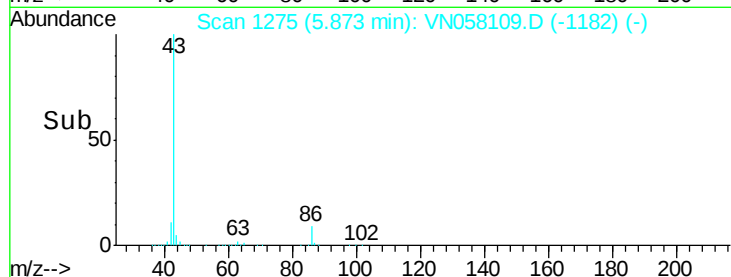
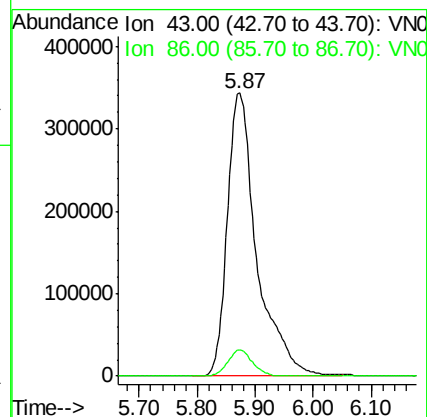
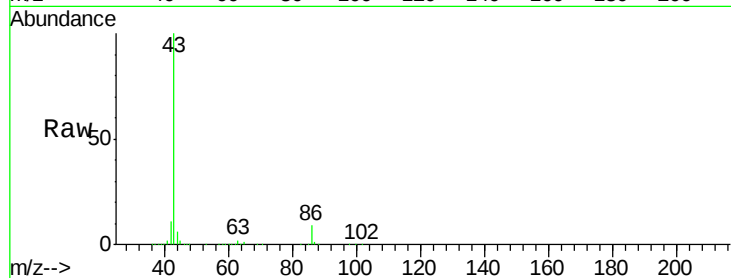
86 9.3 7.7 11.5

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 21.688 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

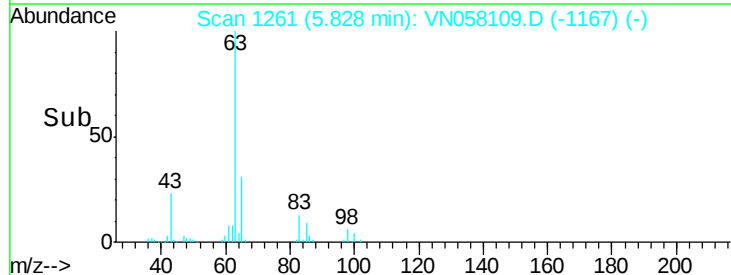
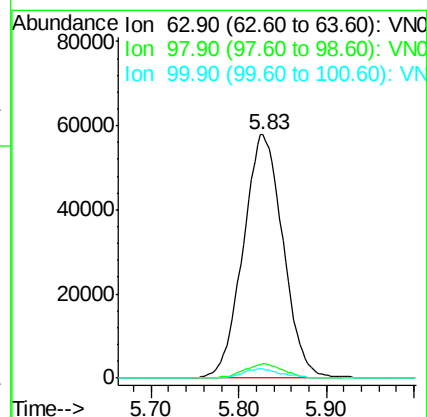
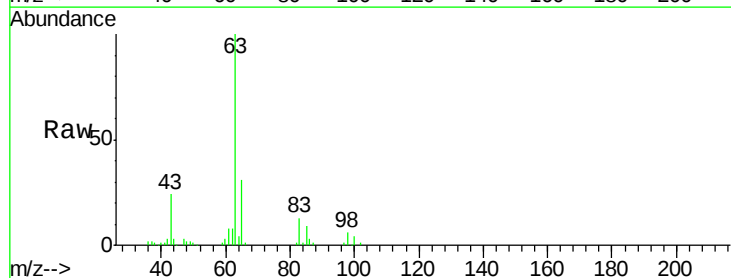
Tgt Ion: 63 Resp: 183263

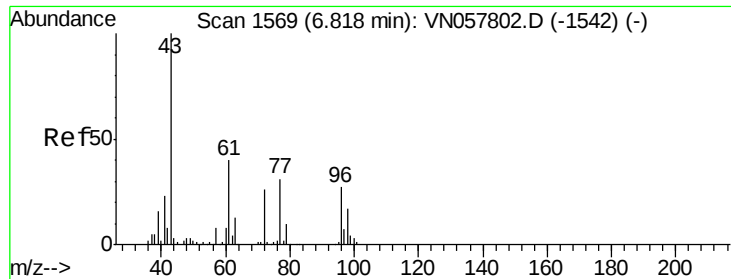
Ion Ratio Lower Upper

63 100

98 5.7 3.0 9.2

100 3.8 2.0 5.8





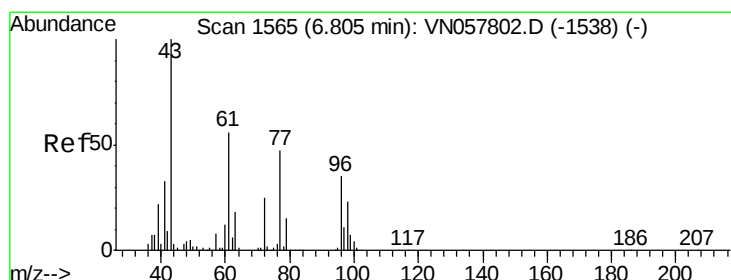
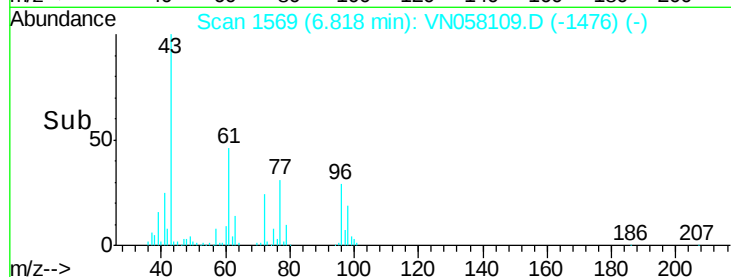
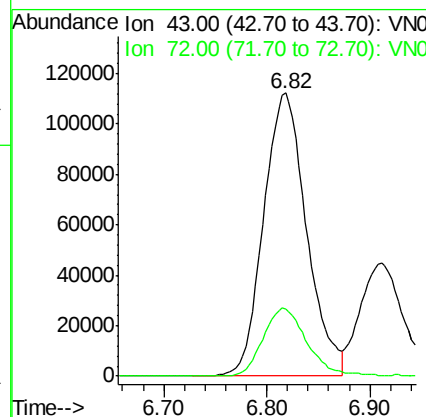
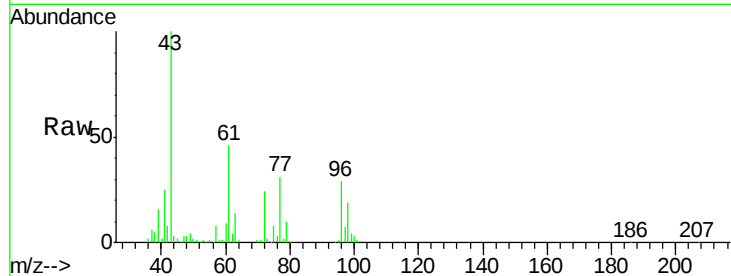
#25
2-Butanone
Concen: 106.202 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
72	23.7	20.6	30.8

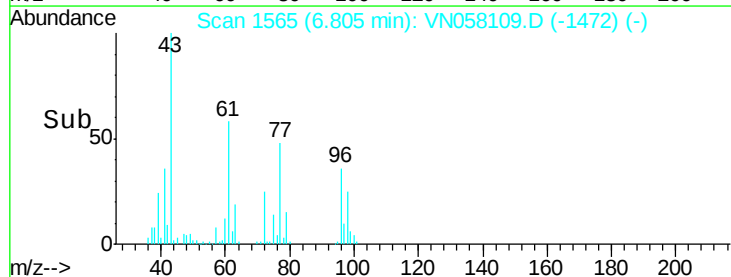
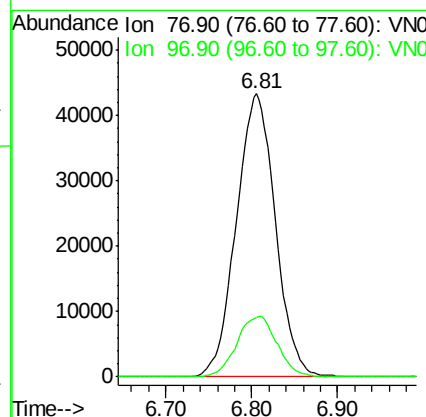
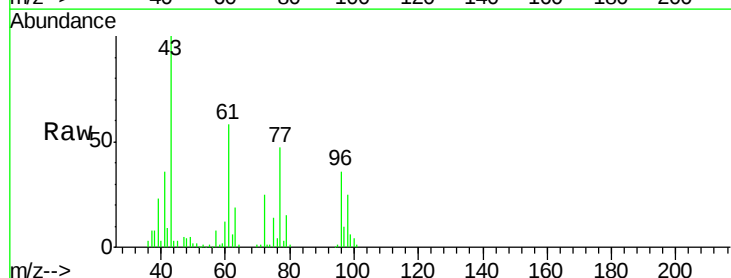
Manual Integrations
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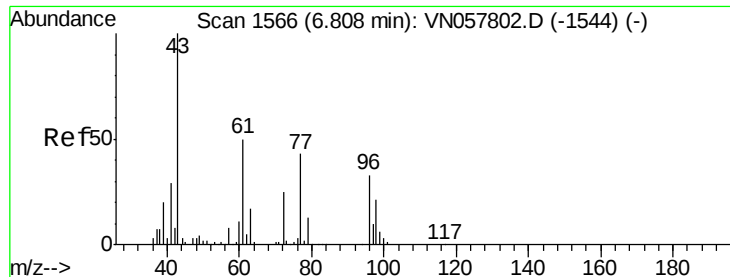
MMDadoda
9/18/2019 2:56:56 PM



#26
2,2-Dichloropropane
Concen: 20.426 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Lower	Upper
77	100		
97	21.9	11.1	33.3





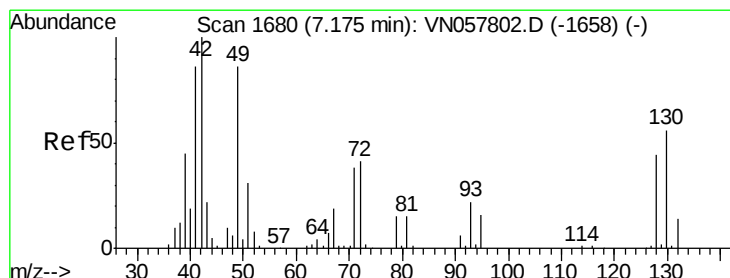
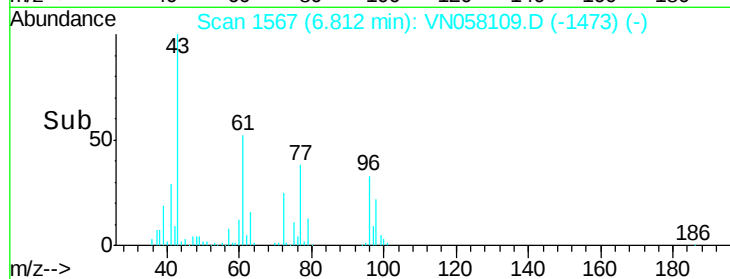
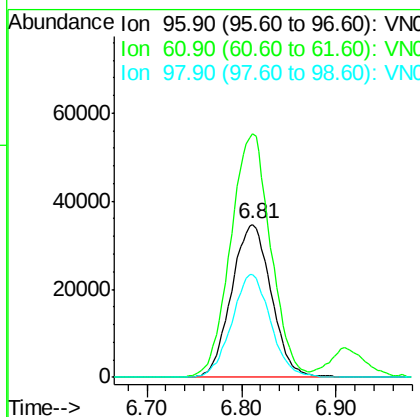
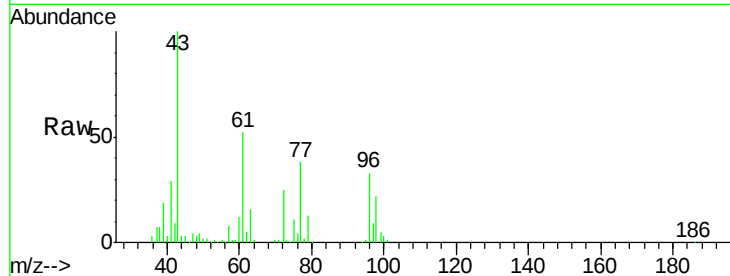
#27
 cis-1,2-Dichloroethene
 Concen: 20.768 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	160.5	0.0	314.0	
98	65.6	0.0	128.6	

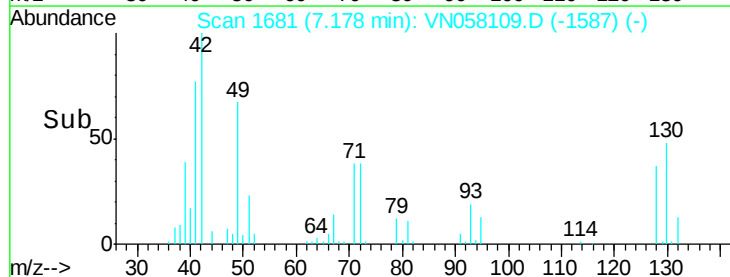
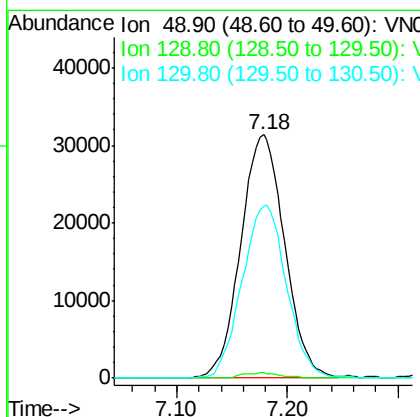
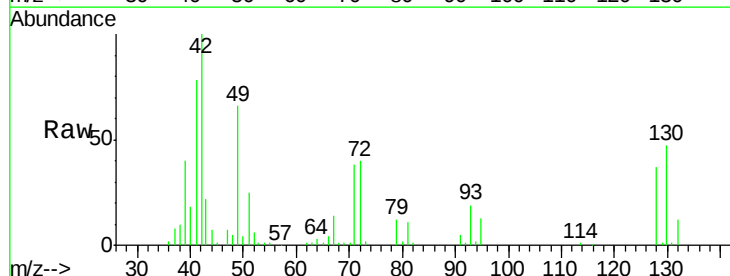
Manual Integrations
 APPROVED

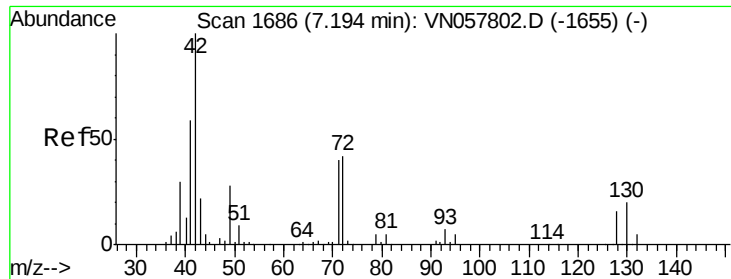
MMDadoda
 9/18/2019 2:56:56 PM



#28
 Bromochloromethane
 Concen: 20.469 ug/l
 RT: 7.18 min Scan# 1681
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.2	0.0	3.8	
130	71.8	53.0	79.6	





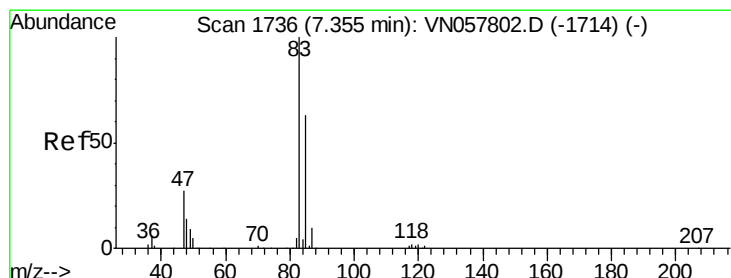
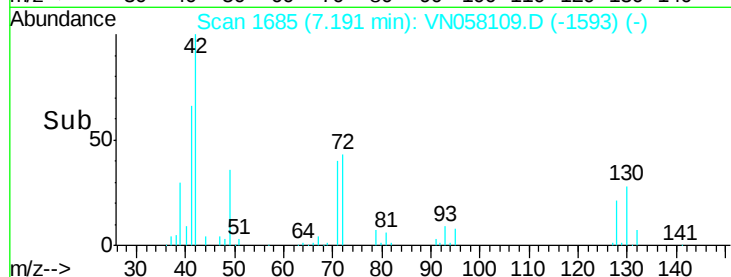
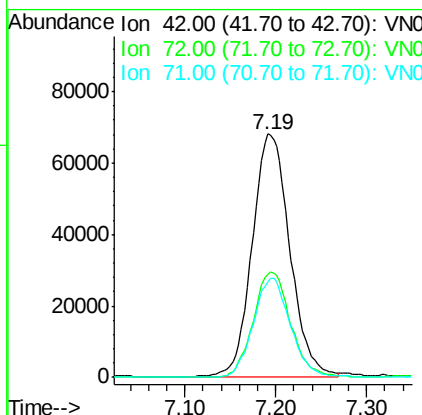
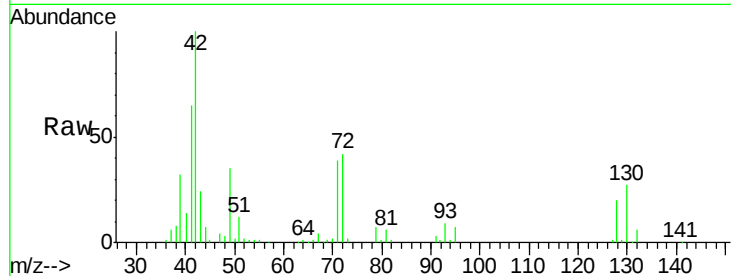
#29
Tetrahydrofuran
Concen: 104.907 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.9	33.7	50.5
71	40.1	31.9	47.9

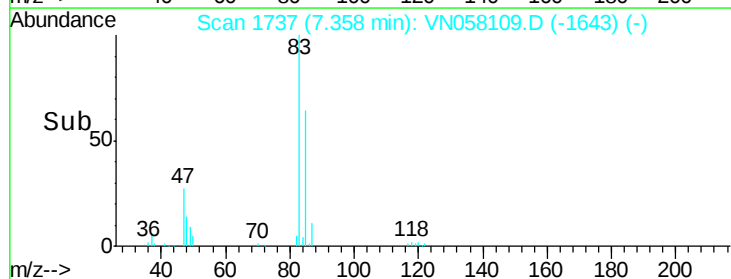
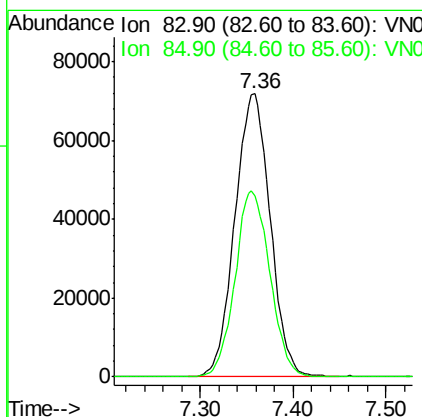
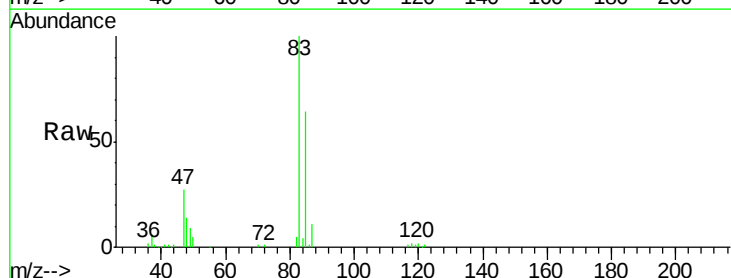
Manual Integrations
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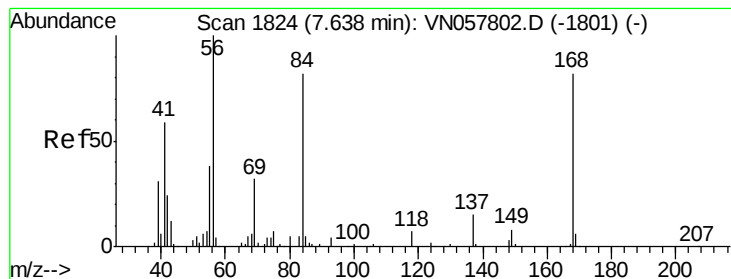
MMDadoda
9/18/2019 2:56:56 PM



#30
Chloroform
Concen: 21.519 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.6	75.8





#31

Cyclohexane

Concen: 20.737 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

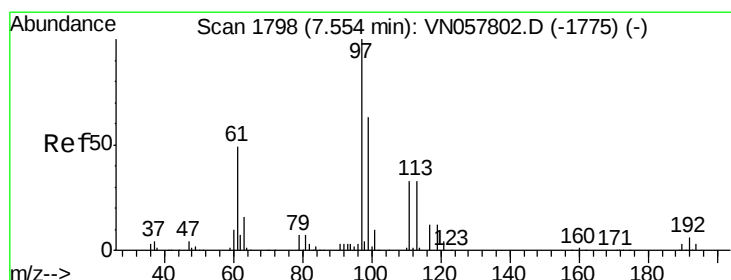
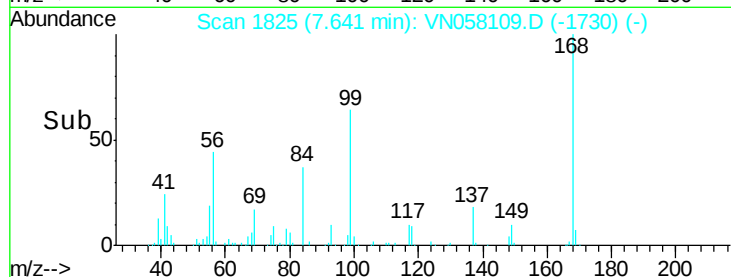
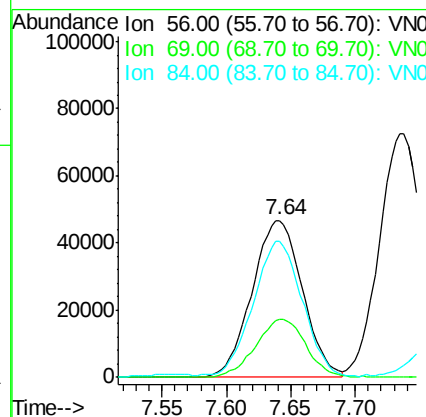
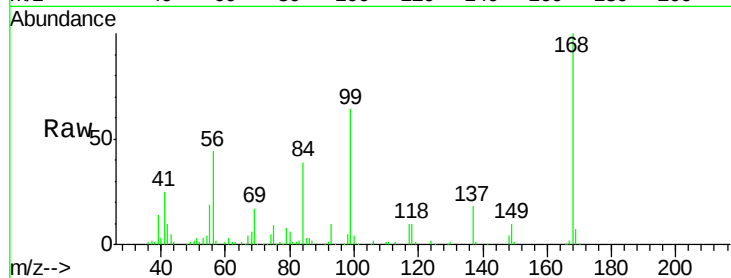
ClientSampleId :

VN0916WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
56	100		126944		
69	37.2	25.9	38.9		
84	85.4	65.6	98.4		

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 21.144 ug/l

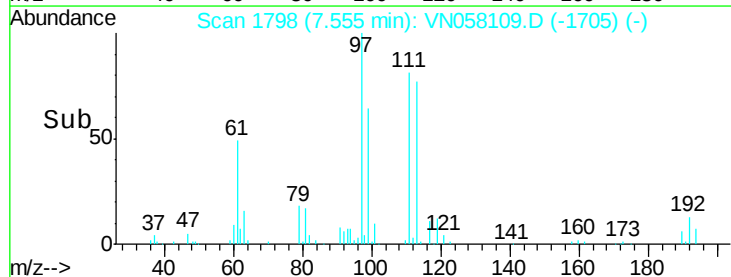
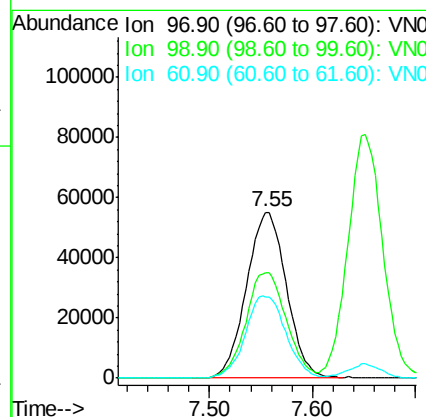
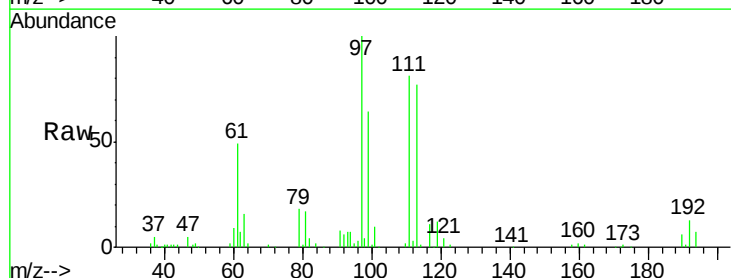
RT: 7.55 min Scan# 1798

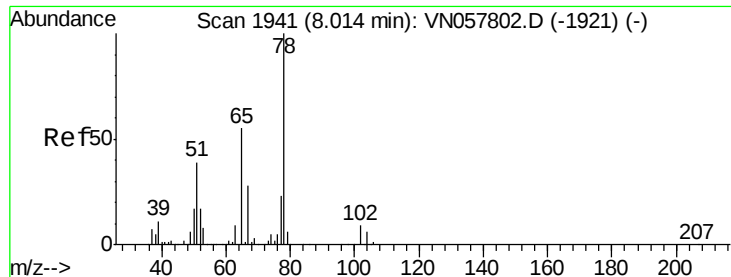
Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
97	100		148158		
99	65.0	51.0	76.4		
61	50.3	39.0	58.6		





#33

1,2-Dichloroethane-d4

Concen: 51.678 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0916WBS01

Tot Ion: 65 Resp: 331152

Ion Ratio Lower Upper

65 100

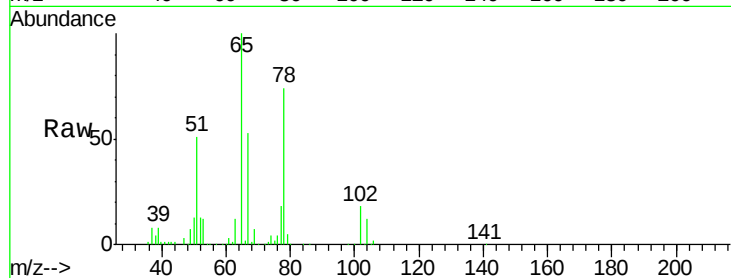
67 52.0 0.0 104.0

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VN057802.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN057802.D (-1921) (-)

8.01

150000

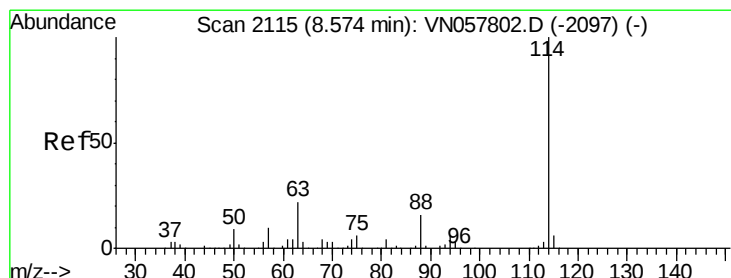
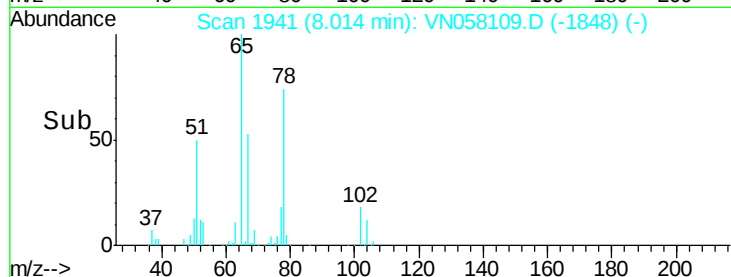
100000

50000

0

7.90 7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

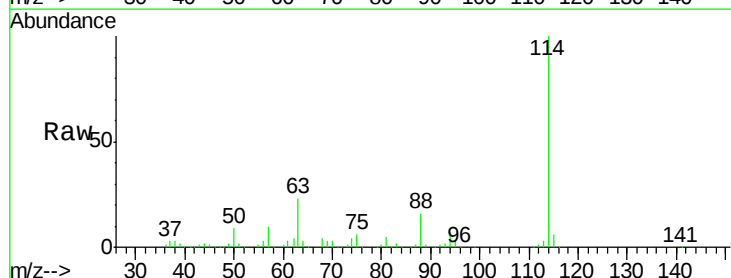
Tgt Ion: 114 Resp: 507755

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.0

88 15.9 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN057802.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN057802.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN057802.D (-2097) (-)

8.57

300000

250000

200000

150000

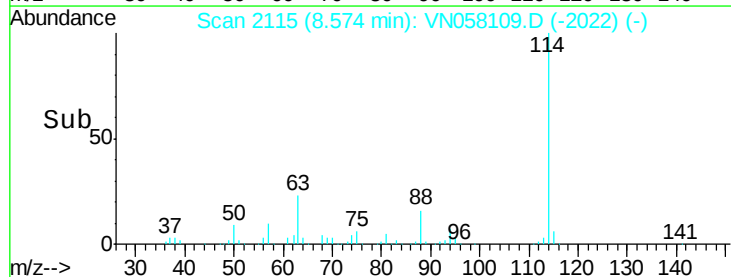
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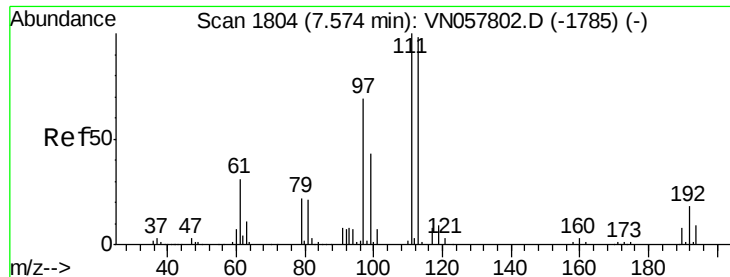
50000

0

8.50 8.55 8.60 8.65 8.70

Time-->





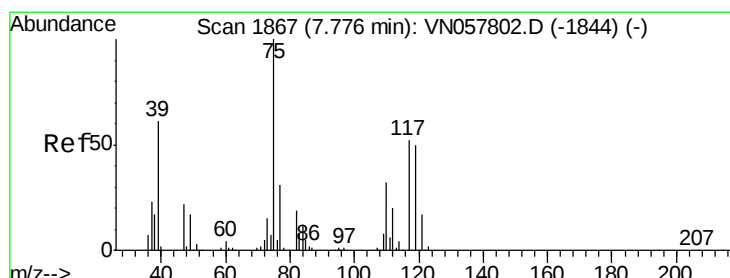
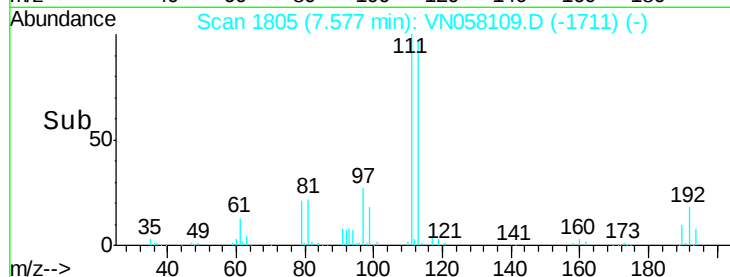
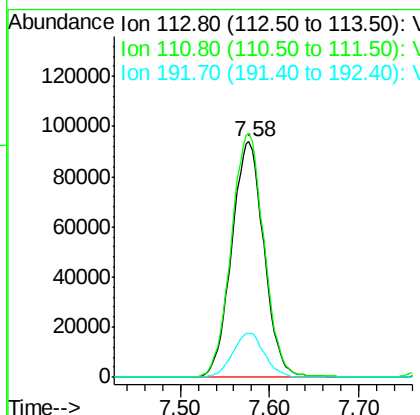
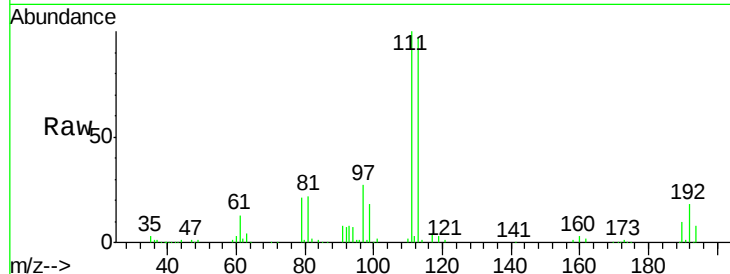
#35
Dibromofluoromethane
Concen: 50.439 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	104.8	81.3	121.9	
192	18.5	14.6	22.0	

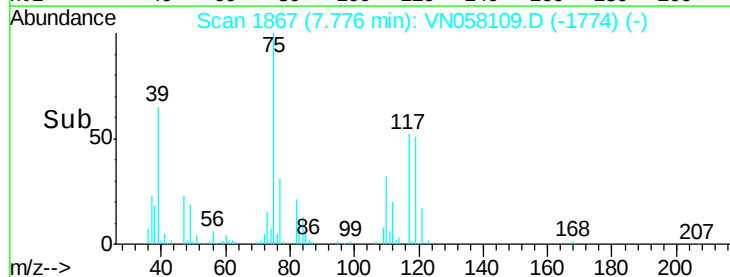
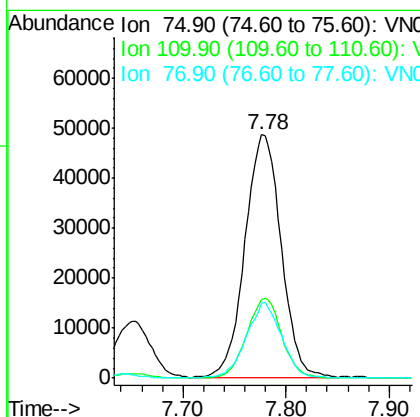
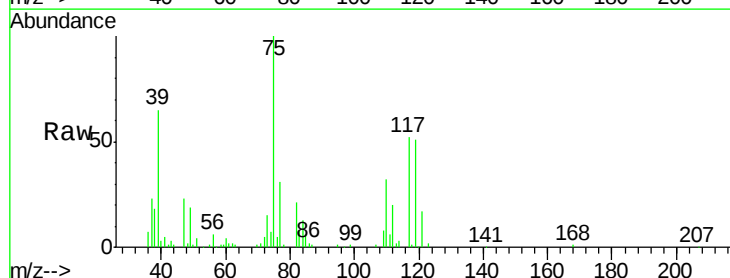
Manual Integrations
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#36
1,1-Dichloropropene
Concen: 20.060 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	31.9	16.3	48.9	
77	30.5	25.0	37.4	





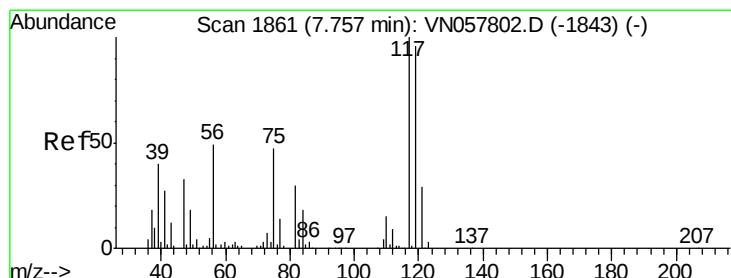
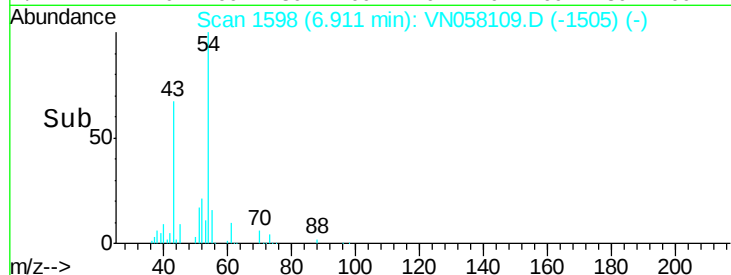
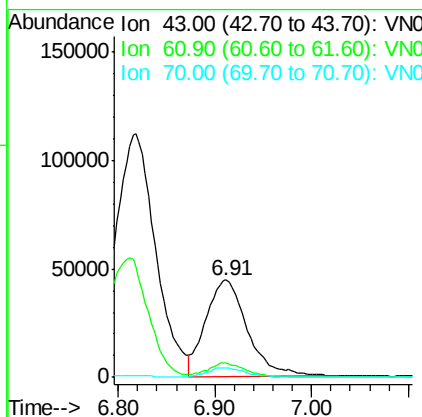
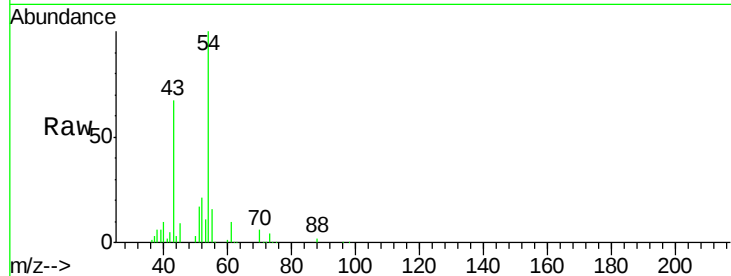
#37
Ethyl Acetate
Concen: 21.898 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampled :
VN0916WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.5	15.7
70	9.3	7.4	11.0

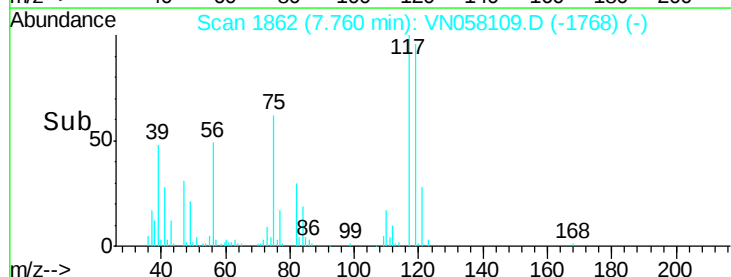
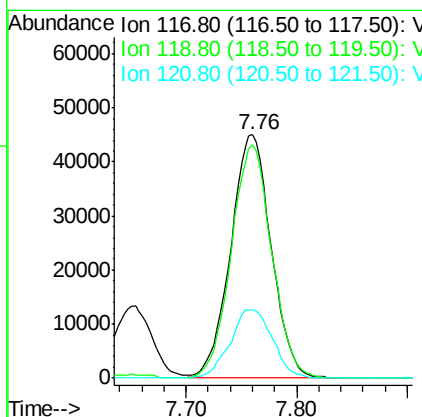
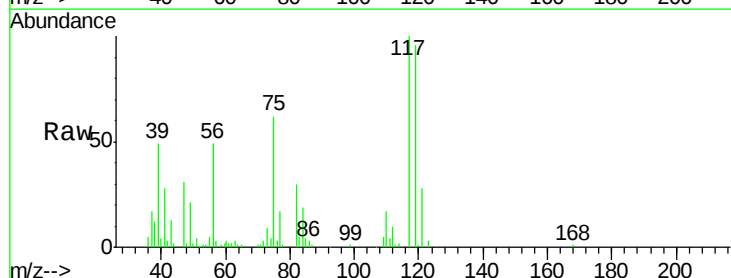
Manual Integrations
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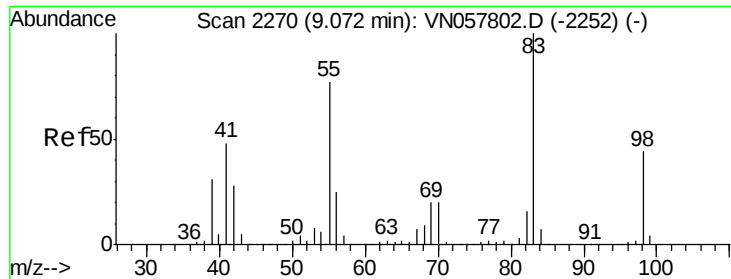
MMDadoda
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#38
Carbon Tetrachloride
Concen: 21.314 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.0	76.9	115.3
121	27.9	23.4	35.2





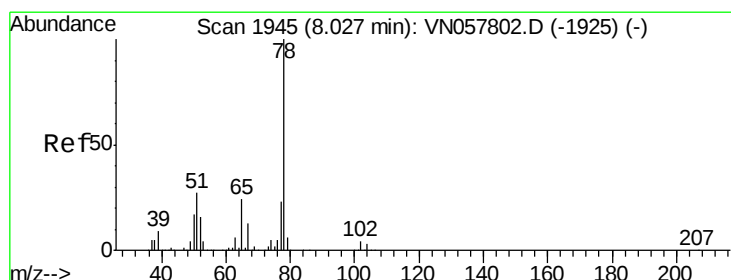
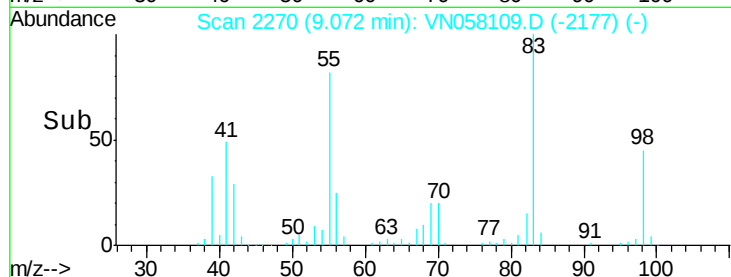
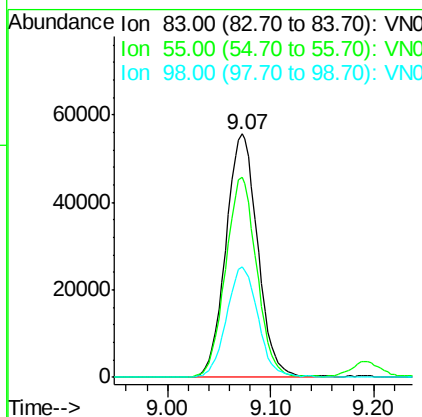
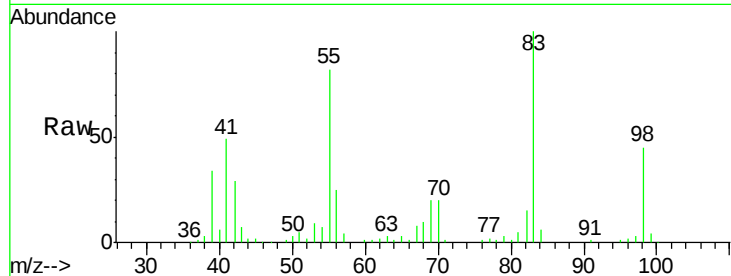
#39
Methvlcvclohexane
Concen: 19.336 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	83	Resp	119693
Ion Ratio	Lower	Upper	
83	100		
55	82.1	61.6	92.4
98	45.2	34.9	52.3

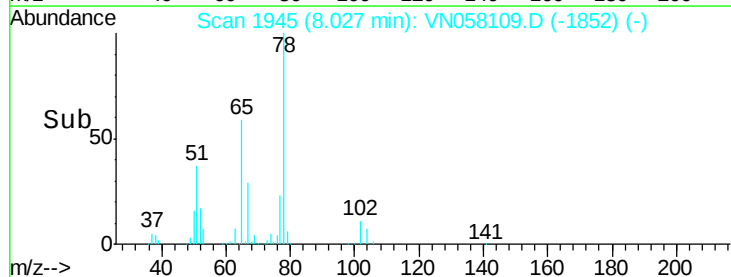
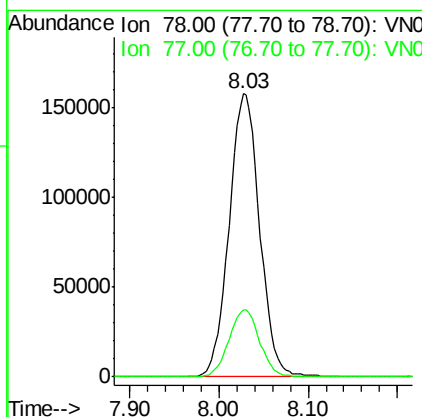
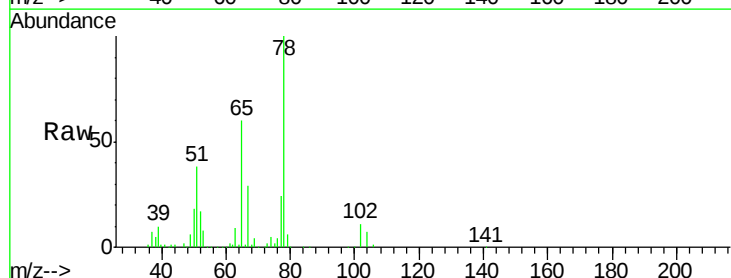
Manual Integrations
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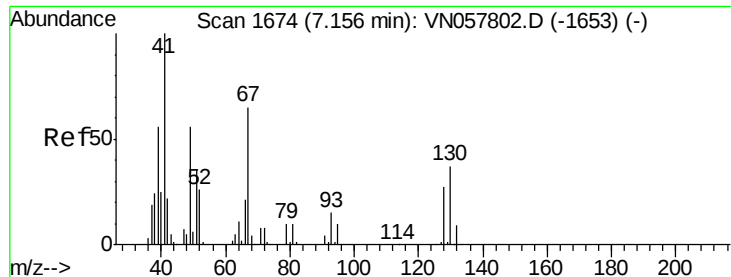
MMDadoda
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#40
Benzene
Concen: 21.079 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	78	Resp	373695
Ion Ratio	Lower	Upper	
78	100		
77	23.7	18.3	27.5





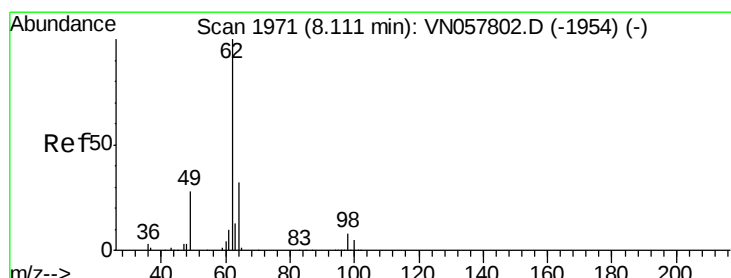
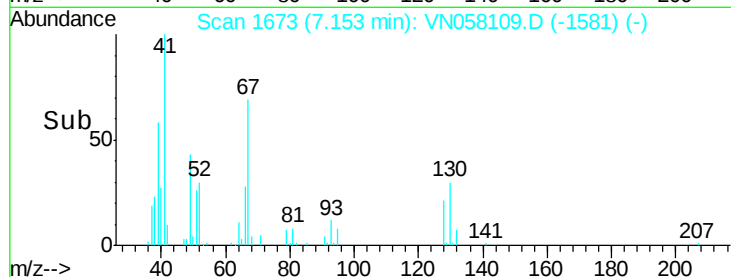
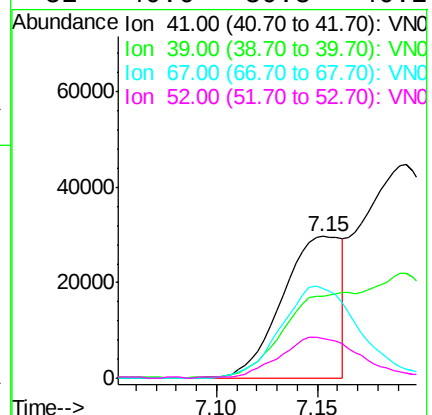
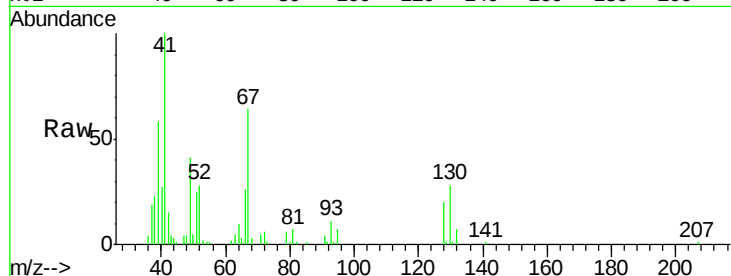
#41
Methacrylonitrile
Concen: 21.950 ug/l
RT: 7.15 min Scan# 1673
Delta R.T. -0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	41	Resp	60621
Ion	Ratio	Lower	Upper
41	100		
39	0.0	51.0	76.6#
67	86.3	70.7	106.1
52	40.6	30.8	46.2

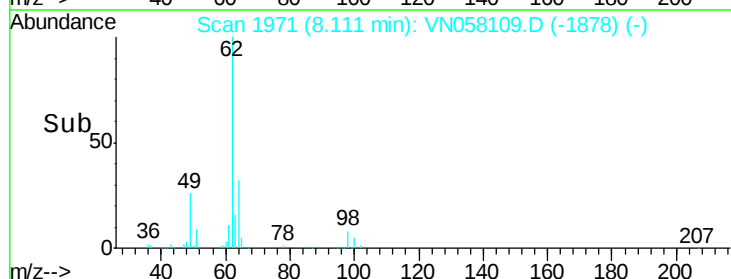
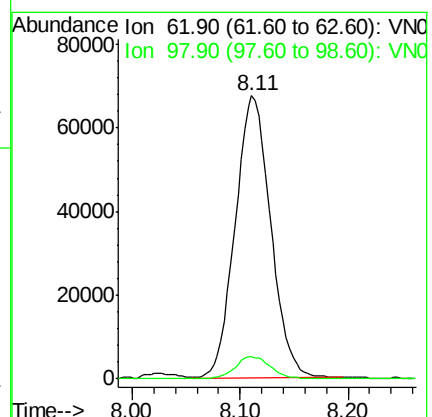
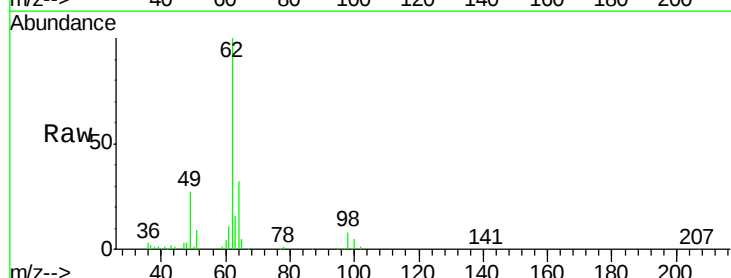
Manual Integrations
APPROVED

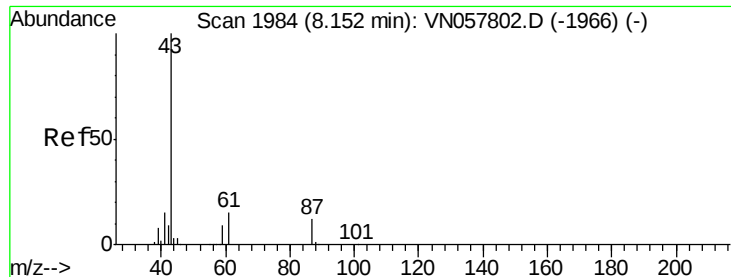
MMDadoda
9/18/2019 2:56:56 PM



#42
1,2-Dichloroethane
Concen: 21.866 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	62	Resp	155038
Ion	Ratio	Lower	Upper
62	100		
98	7.9	0.0	15.8





#43

Isopropyl Acetate

Concen: 23.679 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

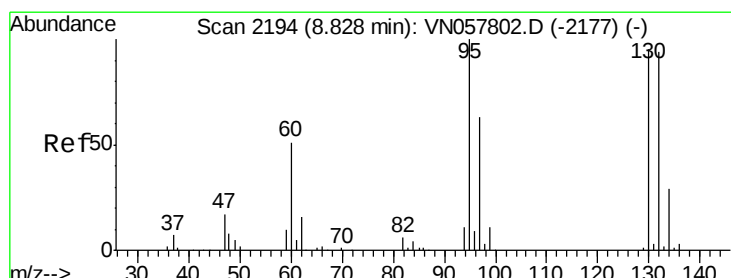
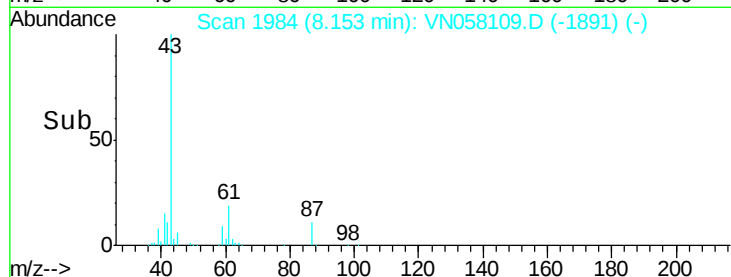
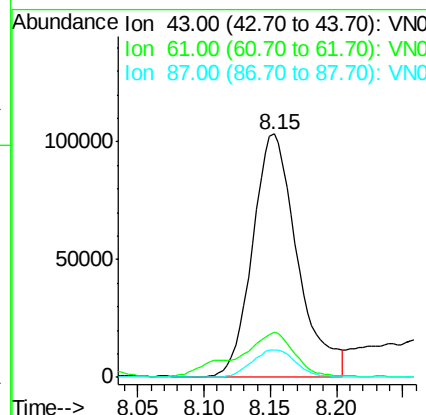
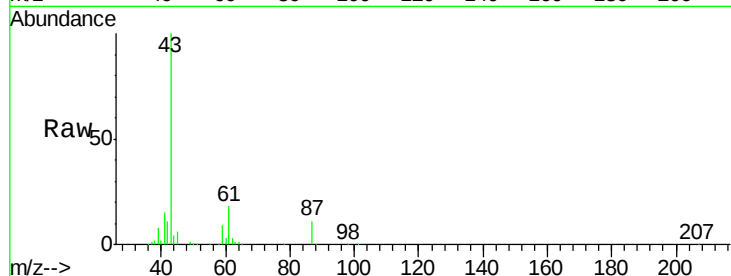
ClientSampleId :

VN0916WBS01

Tot Ion:	43	Resp:	242272
Ion	Ratio	Lower	Upper
43	100		
61	23.3	20.1	30.1
87	11.1	9.5	14.3

Manual Integrations
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#44

Trichloroethene

Concen: 20.872 ug/l

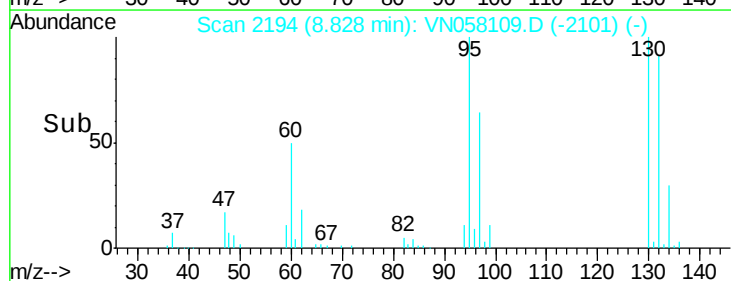
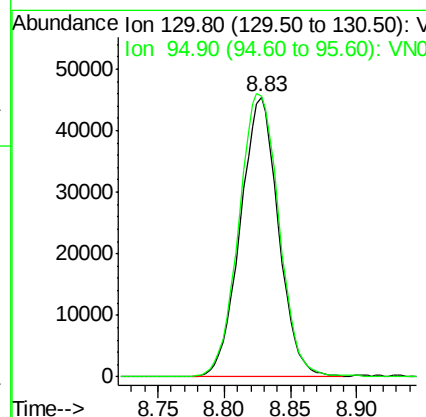
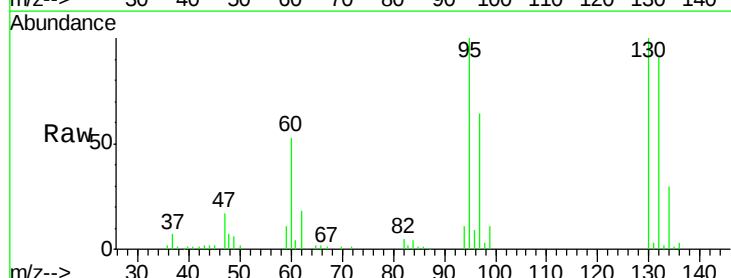
RT: 8.83 min Scan# 2194

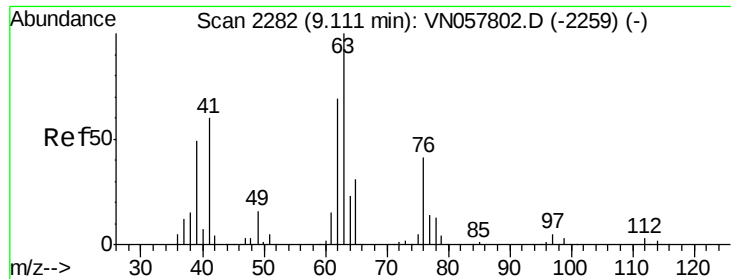
Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Tgt Ion:	130	Resp:	90758
Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	211.4





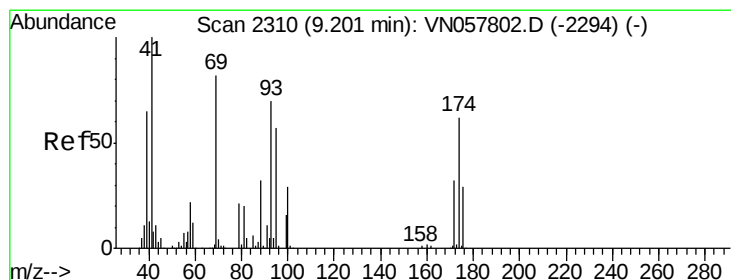
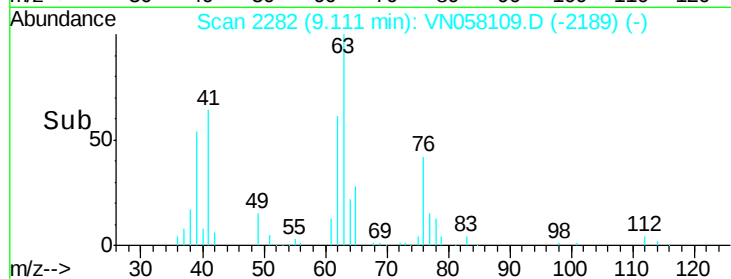
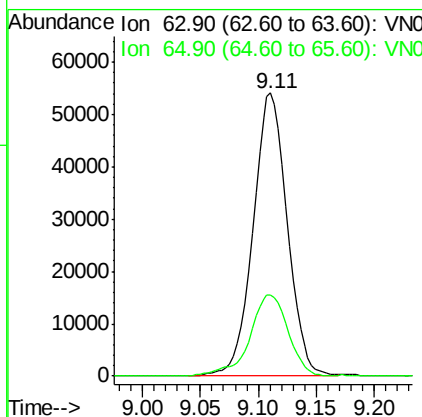
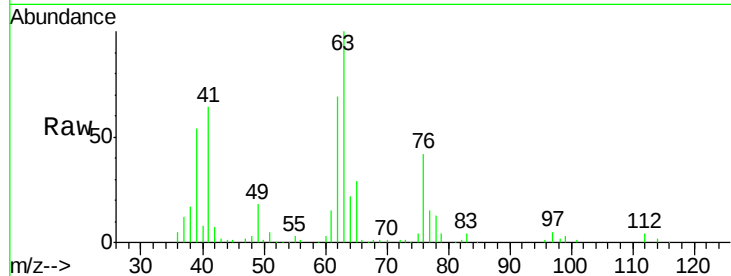
#45
 1,2-Dichloropropane
 Concen: 21.595 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBS01

Tot Ion: 63 Resp: 111403
 Ion Ratio Lower Upper
 63 100
 65 28.5 24.8 37.2

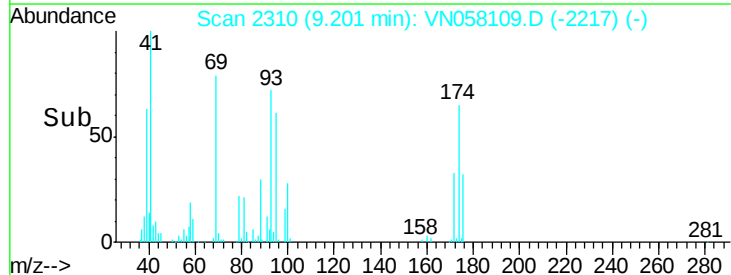
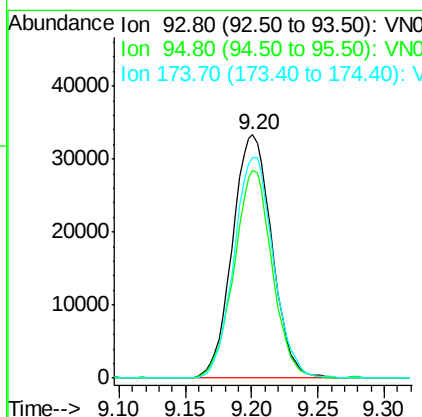
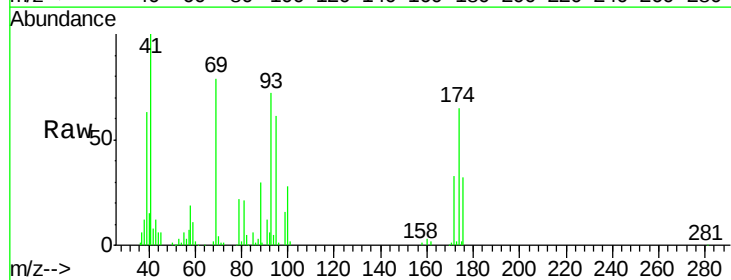
Manual Integrations
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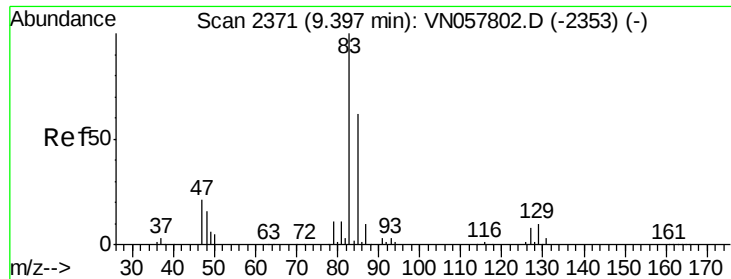
MMDadoda
 9/18/2019 2:56:56 PM



#46
 Dibromomethane
 Concen: 22.082 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Tgt Ion: 93 Resp: 68836
 Ion Ratio Lower Upper
 93 100
 95 82.2 65.9 98.9
 174 90.4 71.8 107.6





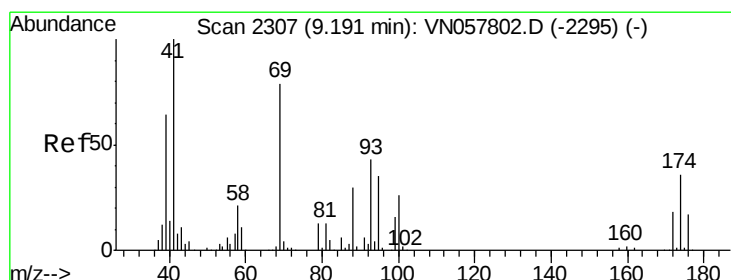
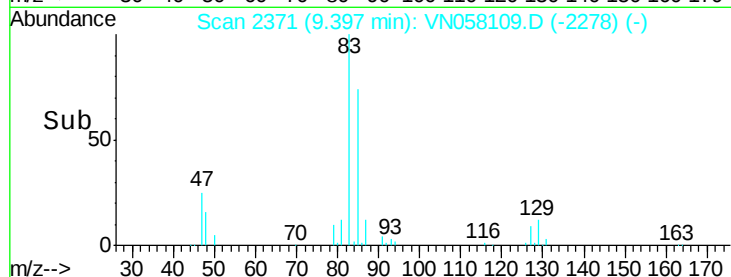
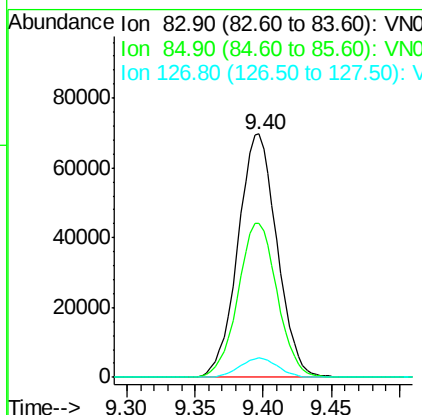
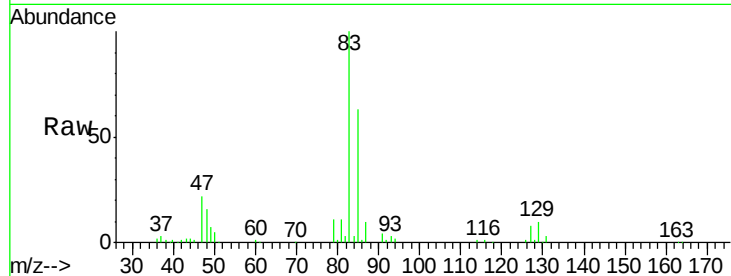
#47
Bromodichloromethane
Concen: 22.277 ug/l
RT: 9.40 min Scan# 2371
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion:	83	Resp:	138672
Ion Ratio	Lower	Upper	
83	100		
85	63.2	49.9	74.9
127	8.0	6.5	9.7

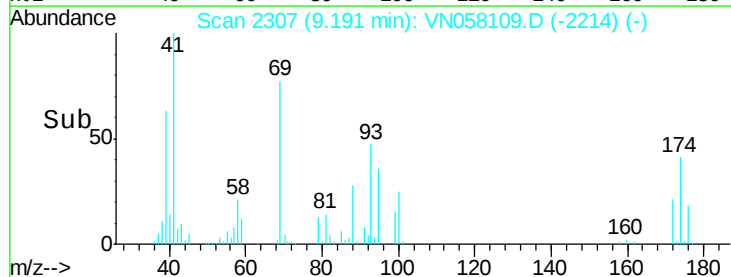
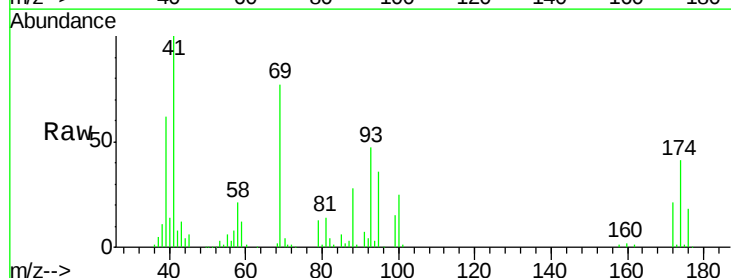
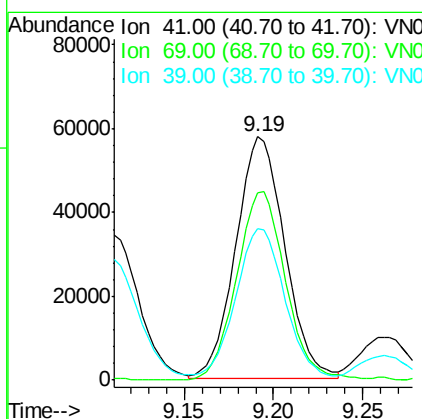
Manual Integrations
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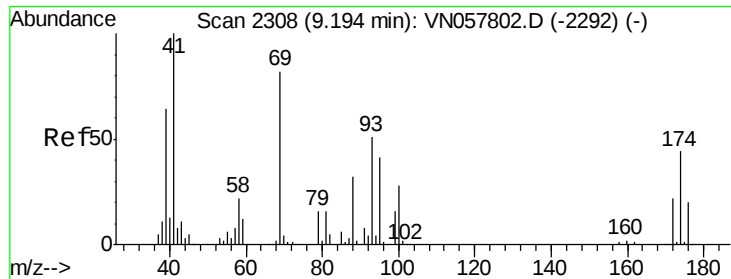
MMDadoda
9/18/2019 2:56:56 PM



#48
Methyl methacrylate
Concen: 21.322 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion:	41	Resp:	110662
Ion Ratio	Lower	Upper	
41	100		
69	77.1	62.7	94.1
39	62.8	52.7	79.1





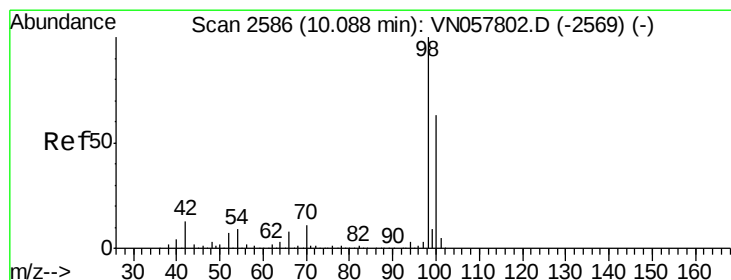
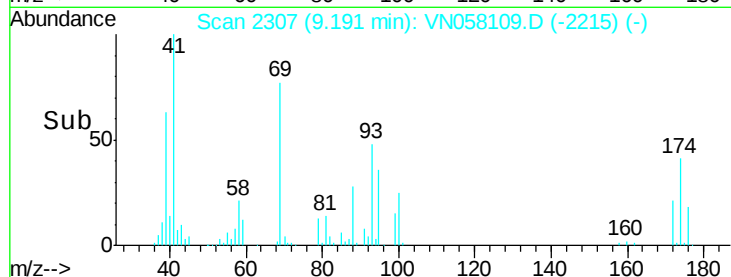
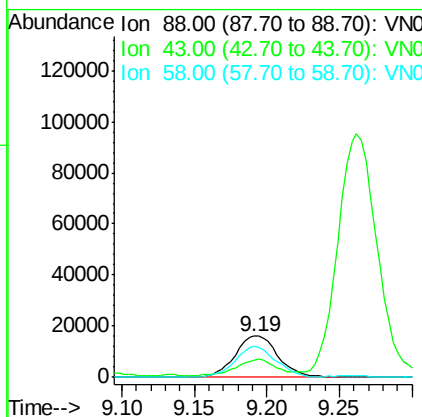
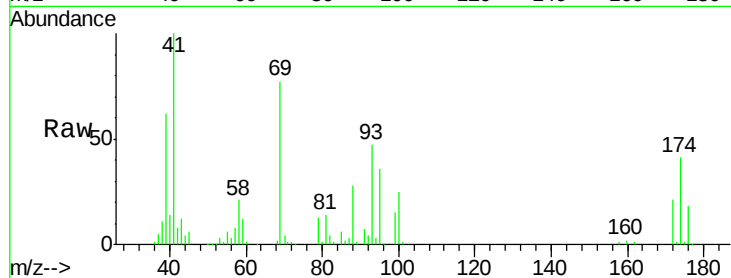
#49
 1,4-Dioxane
 Concen: 379.729 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. -0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBS01

Tot Ion	88	Resp	33328
Ion	Ratio	Lower	Upper
88	100		
43	34.6	28.5	42.7
58	72.3	55.8	83.6

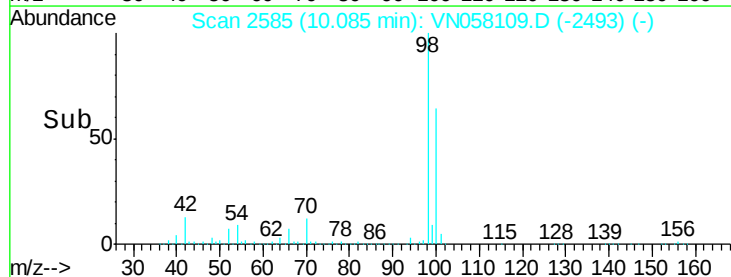
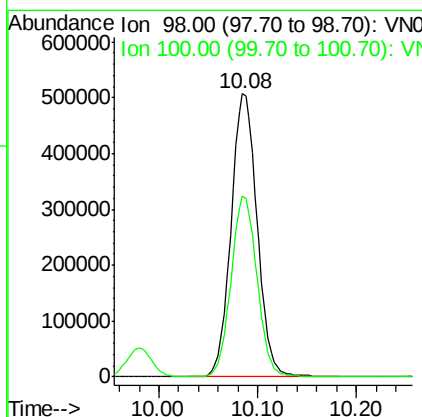
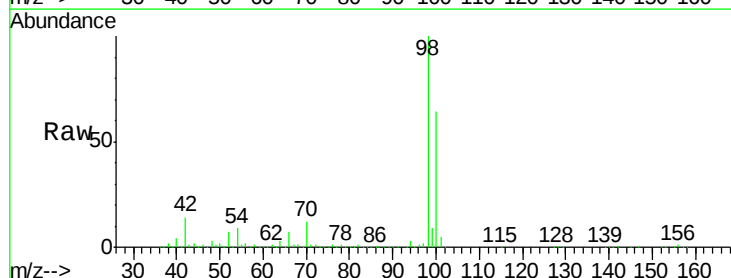
Manual Integrations
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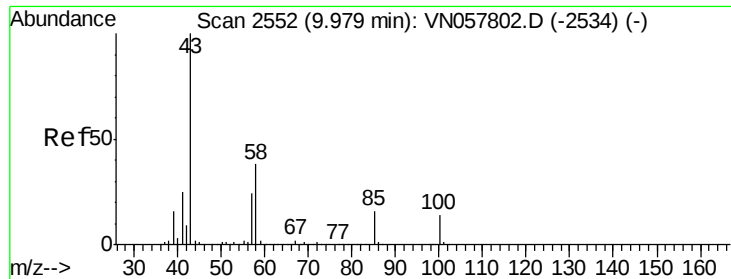
MMDadoda
 9/18/2019 2:56:56 PM



#50
 Toluene-d8
 Concen: 51.445 ug/l
 RT: 10.08 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Tgt Ion	98	Resp	936049
Ion	Ratio	Lower	Upper
98	100		
100	63.1	50.3	75.5





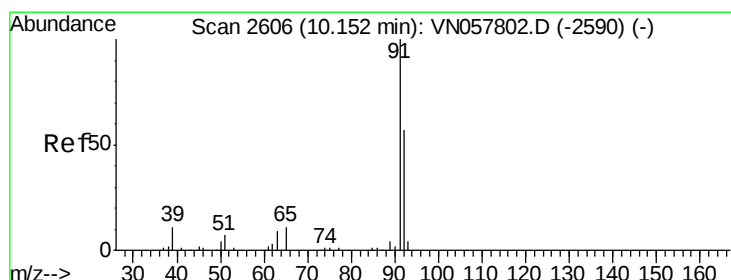
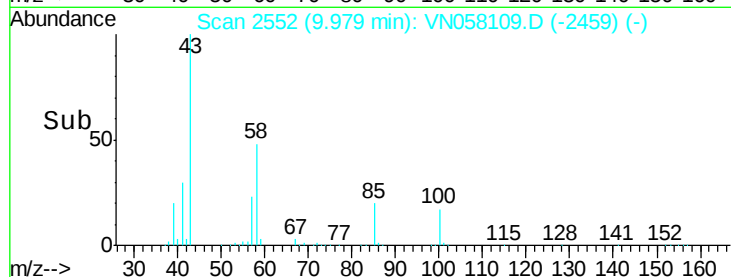
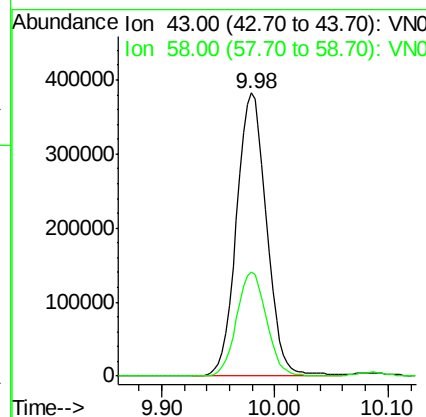
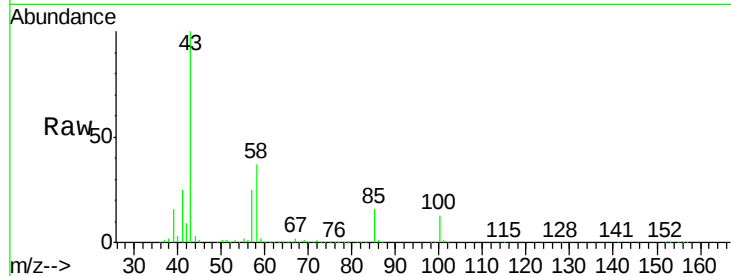
#51
4-Methyl-2-Pentanone
Concen: 116.473 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	43	58	Ratio	Lower	Upper
705198	100	36.9		29.8	44.6

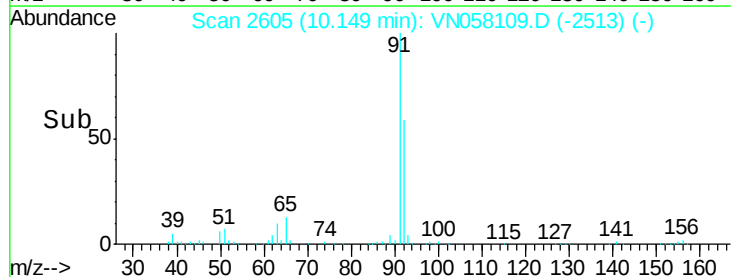
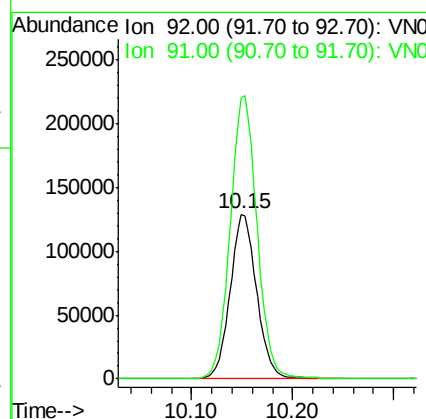
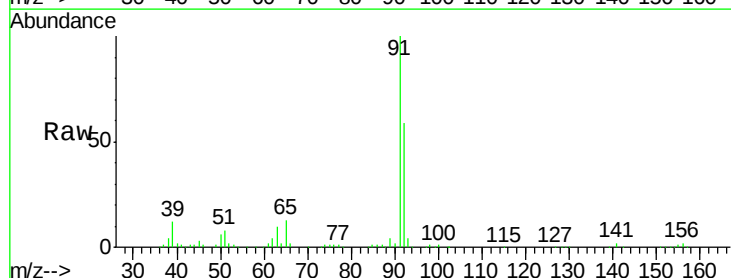
Manual Integrations
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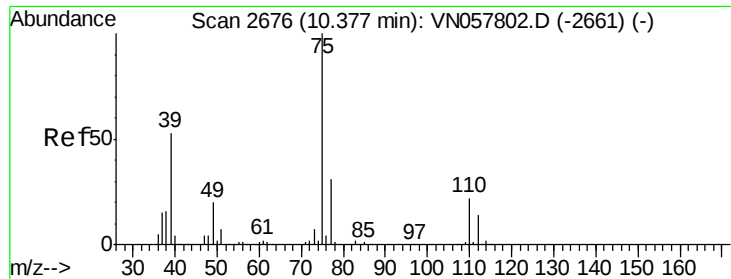
MMDadoda
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#52
Toluene
Concen: 21.254 ug/l
RT: 10.15 min Scan# 2605
Delta R.T. -0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	92	91	Ratio	Lower	Upper
237325	100	173.5		141.0	211.6





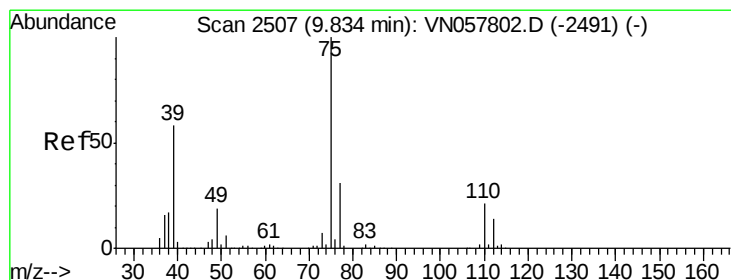
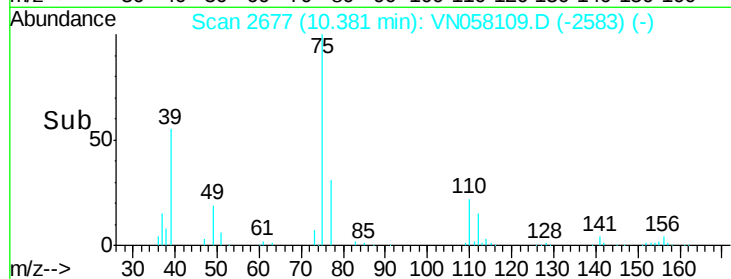
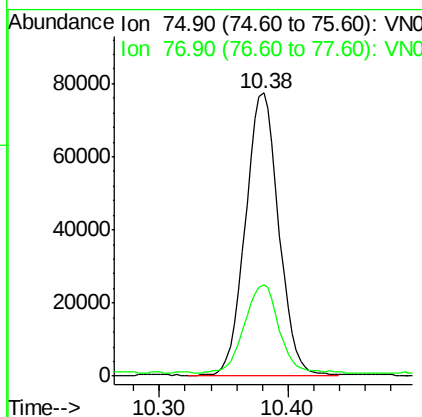
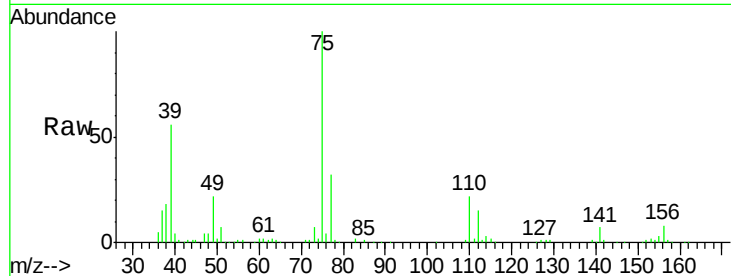
#53
t-1,3-Dichloropropene
Concen: 21.161 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.5	36.7

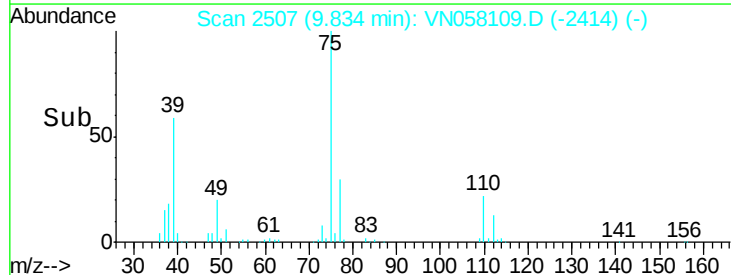
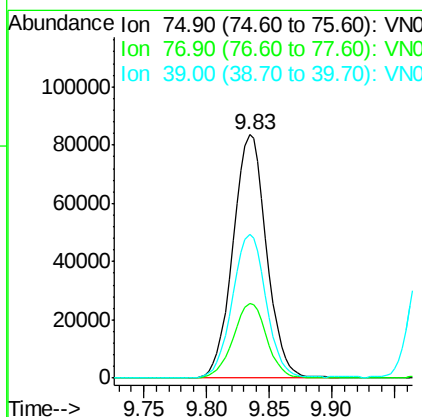
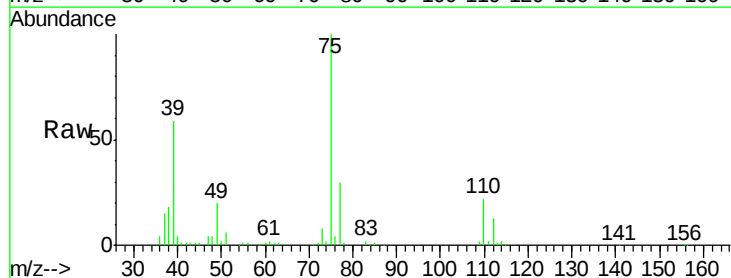
Manual Integrations
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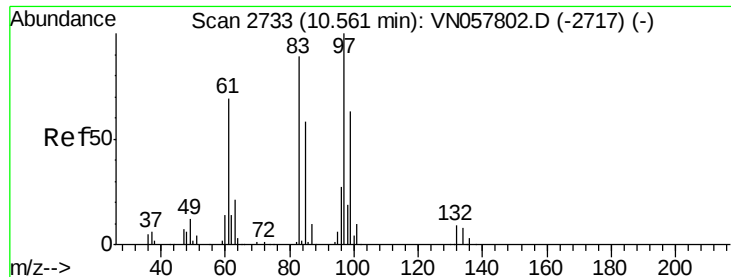
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 21.462 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.8	37.2
39	58.8	46.2	69.4





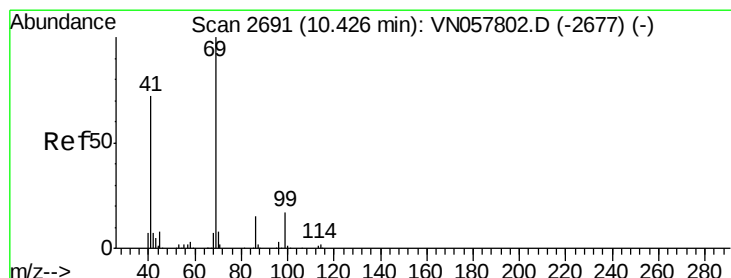
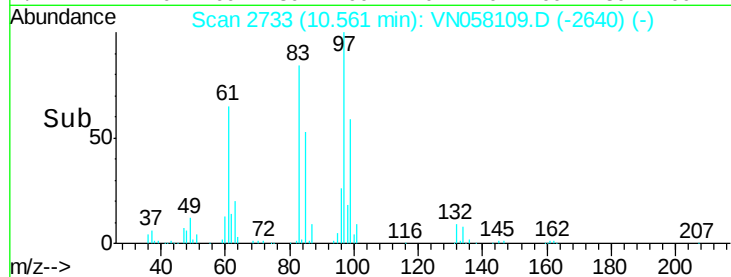
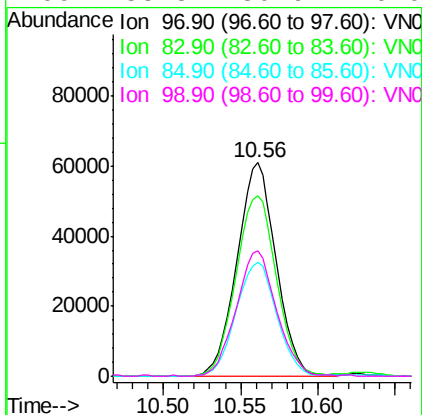
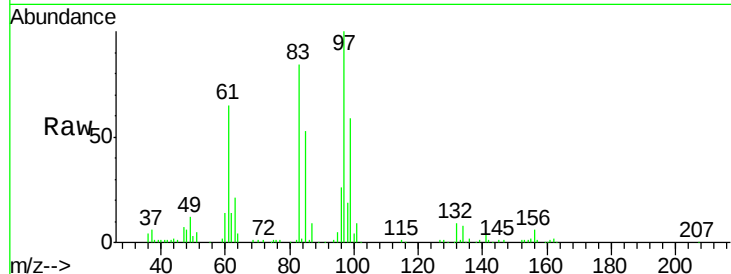
#55
 1,1,2-Trichloroethane
 Concen: 22.615 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBS01

Tot Ion:	97	Resp:	106966
Ion	Ratio	Lower	Upper
97	100		
83	84.4	70.8	106.2
85	53.4	46.0	69.0
99	58.8	50.6	76.0

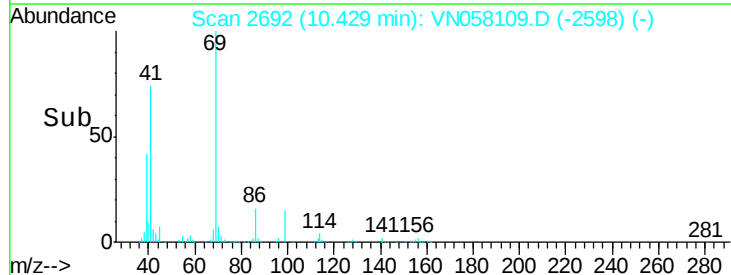
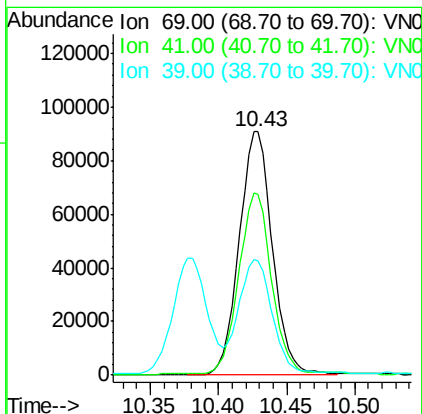
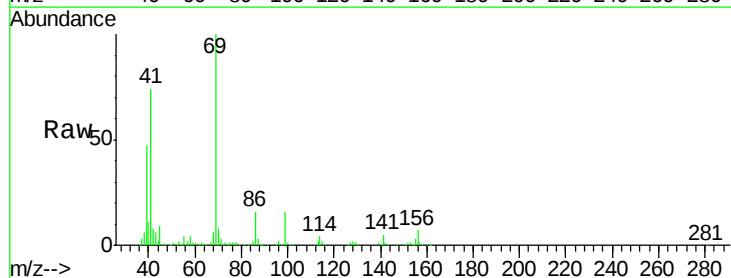
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#56
 Ethyl methacrylate
 Concen: 21.599 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Tgt Ion:	69	Resp:	153843
Ion	Ratio	Lower	Upper
69	100		
41	73.2	56.7	85.1
39	47.3	36.3	54.5





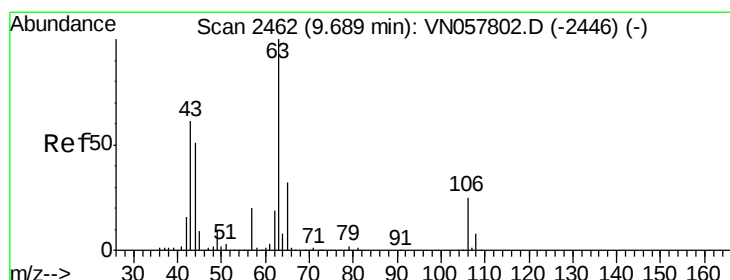
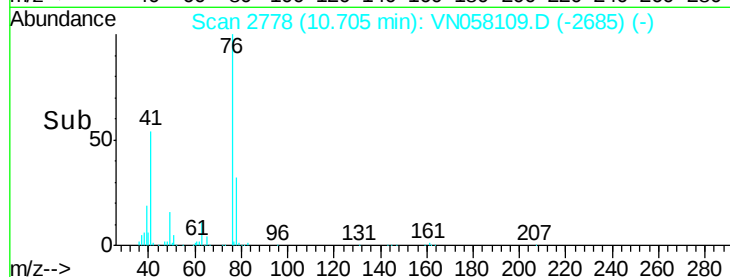
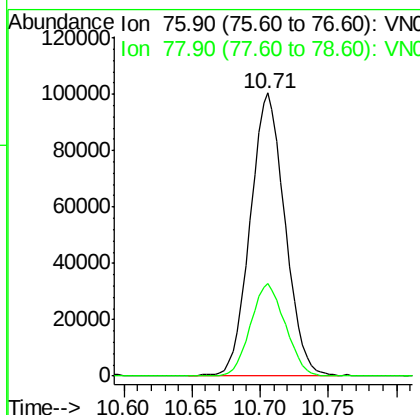
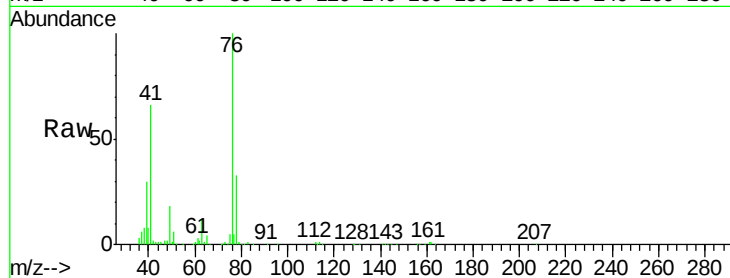
#57
 1,3-Dichloropropane
 Concen: 21.552 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBS01

Tot Ion: 76 Resp: 175678
 Ion Ratio Lower Upper
 76 100
 78 33.2 25.4 38.2

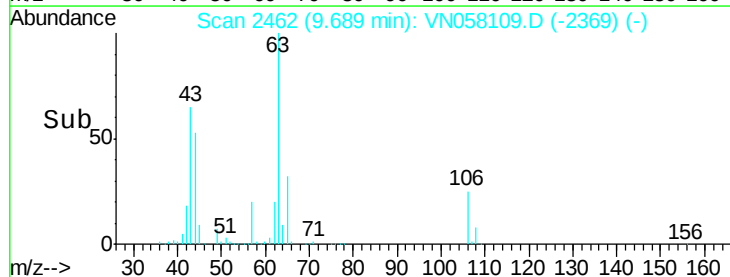
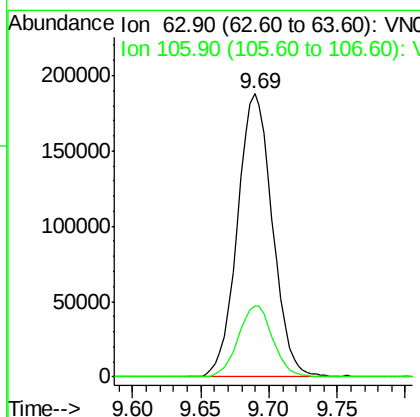
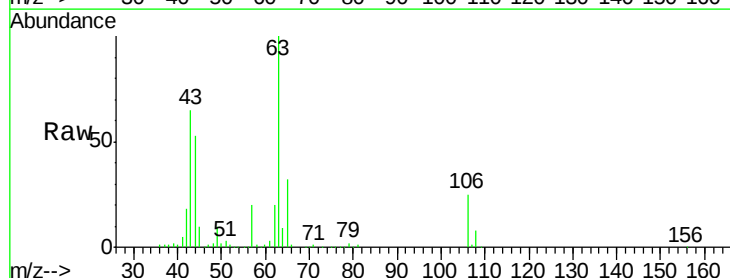
Manual Integrations
 APPROVED

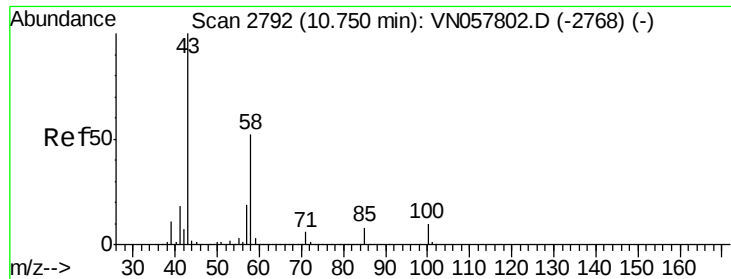
MMDadoda
 9/18/2019 2:56:56 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 99.715 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Tgt Ion: 63 Resp: 334515
 Ion Ratio Lower Upper
 63 100
 106 24.8 20.0 30.0





#59

2-Hexanone

Concen: 108.480 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0916WBS01

Tot Ion: 43 Resp: 492298

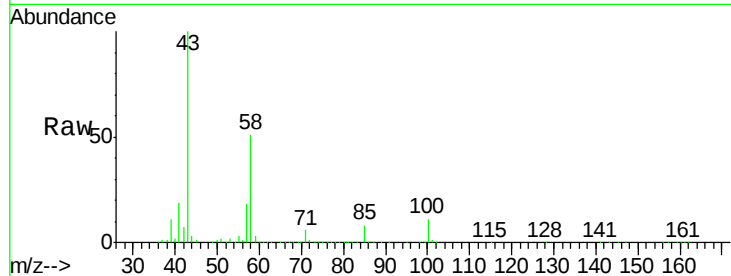
Ion Ratio Lower Upper

43 100

58 51.3 25.6 76.8

Manual Integrations
APPROVED

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9/18/2019 2:56:56 PM



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2768) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2768) (-)

10.75

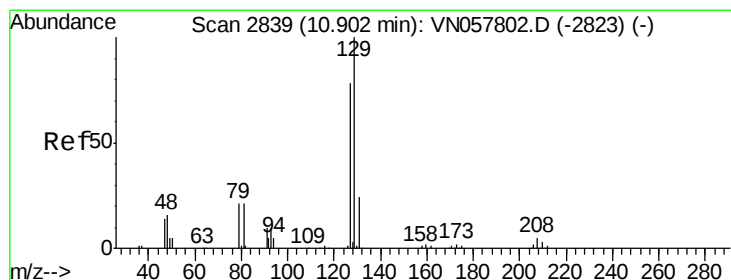
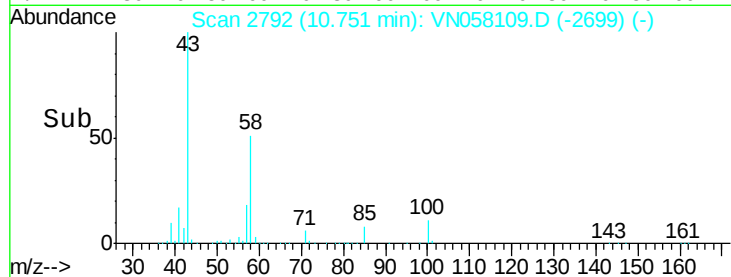
300000

200000

100000

0

Time-->



#60

Dibromochloromethane

Concen: 21.932 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN058109.D

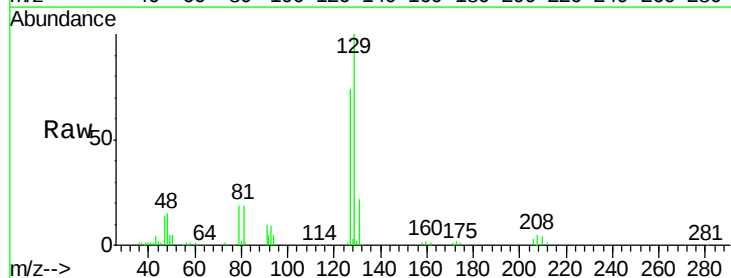
Acq: 16 Sep 2019 11:44

Tgt Ion: 129 Resp: 96329

Ion Ratio Lower Upper

129 100

127 76.5 38.6 116.0



Abundance Ion 128.80 (128.50 to 129.50): VN057802.D (-2823) (-)

Ion 126.80 (126.50 to 127.50): VN057802.D (-2823) (-)

10.90

60000

50000

40000

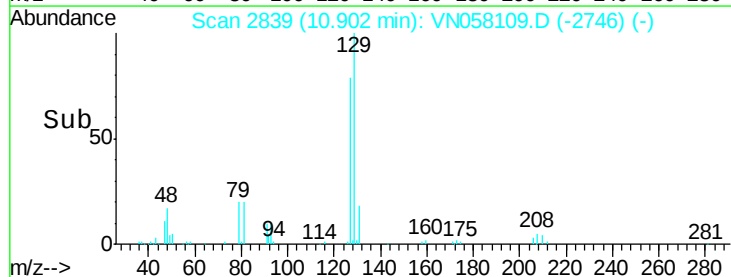
30000

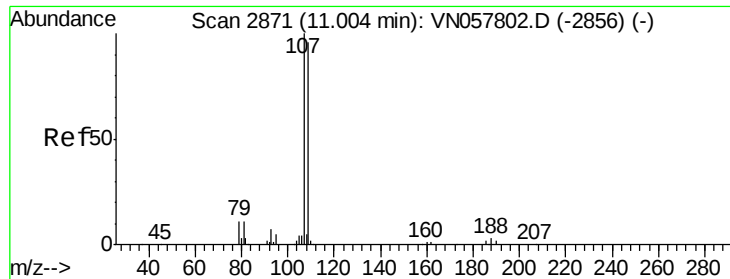
20000

10000

0

Time-->





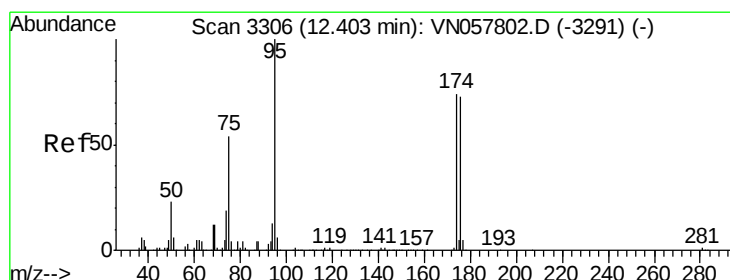
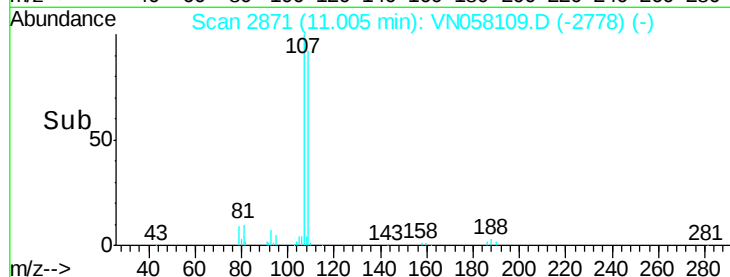
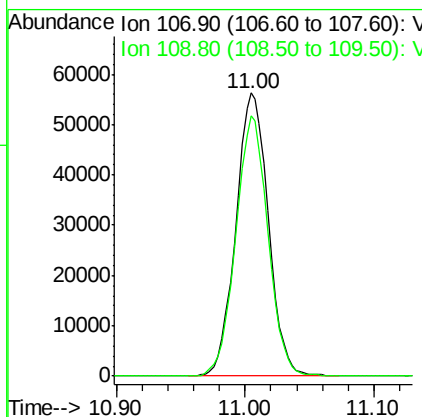
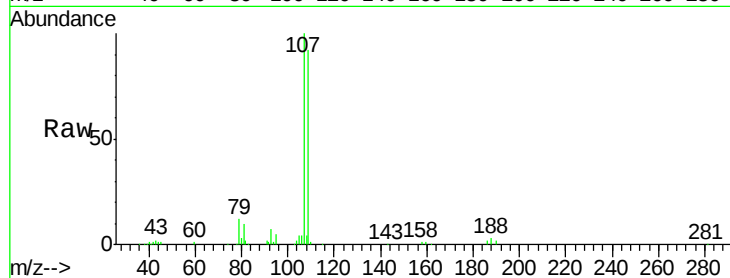
#61
 1,2-Dibromoethane
 Concen: 22.006 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBS01

Tot Ion: 107 Resp: 98402
 Ion Ratio Lower Upper
 107 100
 109 91.1 75.3 112.9

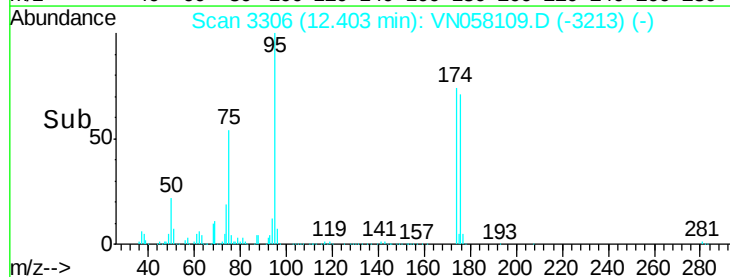
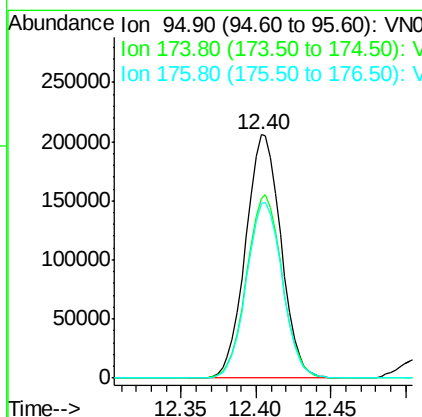
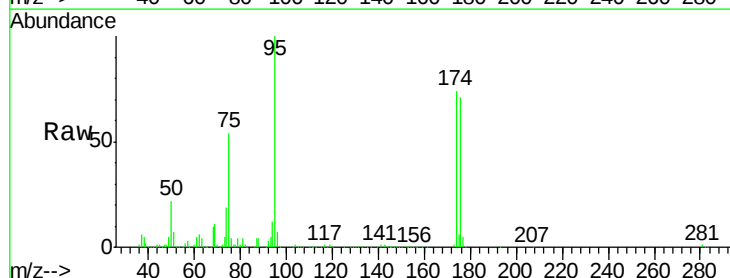
Manual Integrations
 APPROVED

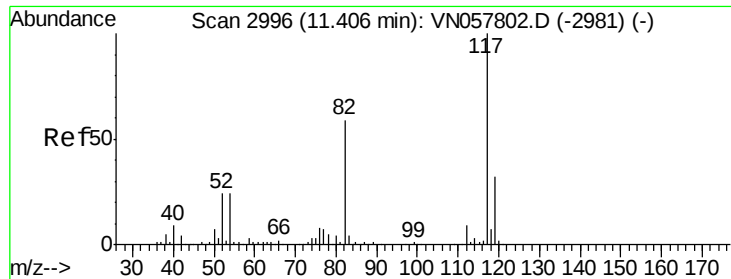
MMDadoda
 9/18/2019 2:56:56 PM



#62
 4-Bromofluorobenzene
 Concen: 48.976 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Tgt Ion: 95 Resp: 339598
 Ion Ratio Lower Upper
 95 100
 174 75.8 0.0 150.2
 176 73.1 0.0 146.0





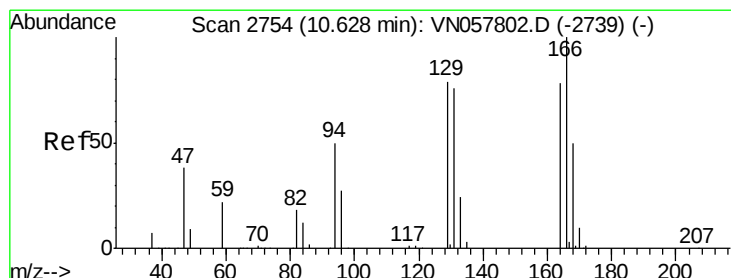
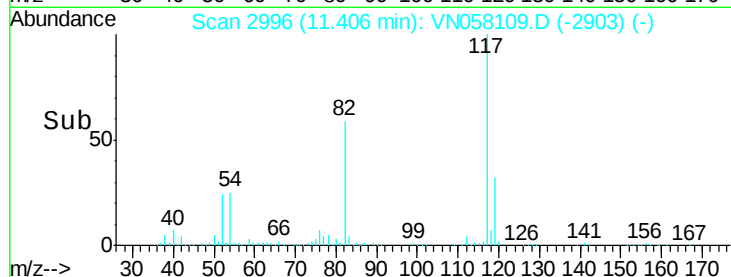
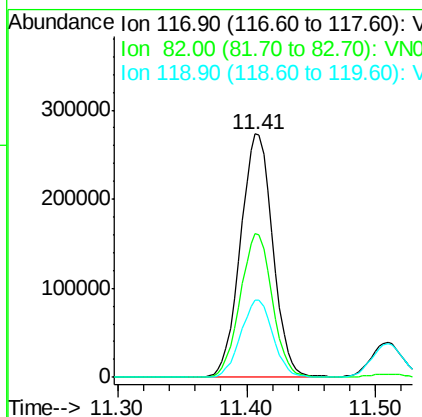
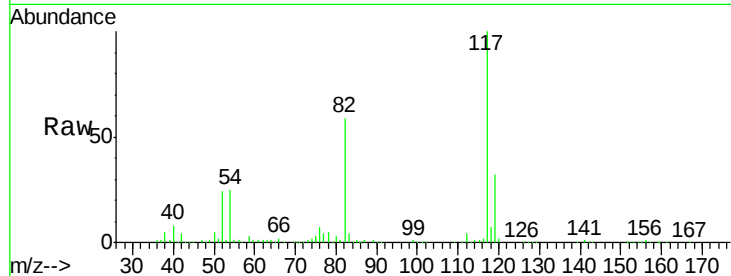
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.1	47.2	70.8
119	31.9	25.3	37.9

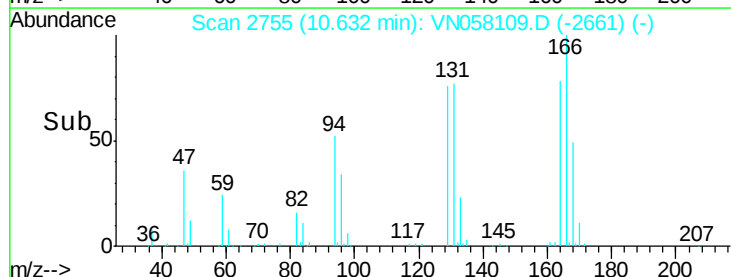
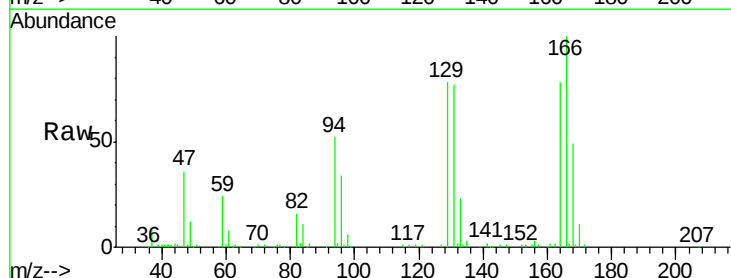
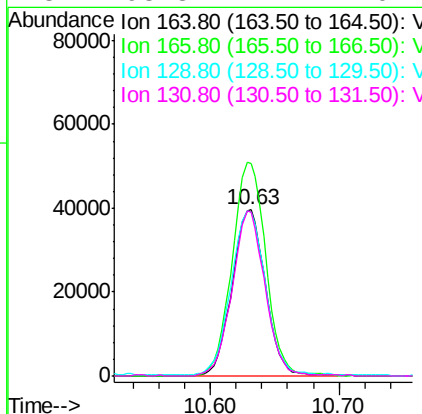
Manual Integrations
APPROVED

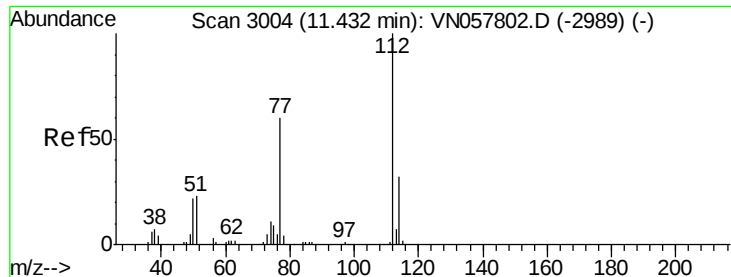
MMDadoda
9/18/2019 2:56:56 PM



#64
Tetrachloroethene
Concen: 20.234 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.4	102.2	153.2
129	98.1	80.8	121.2
131	98.3	77.4	116.2





#65

Chlorobenzene

Concen: 21.448 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0916WBS01

Tot Ion:112 Resp: 267675

Ion Ratio Lower Upper

112 100

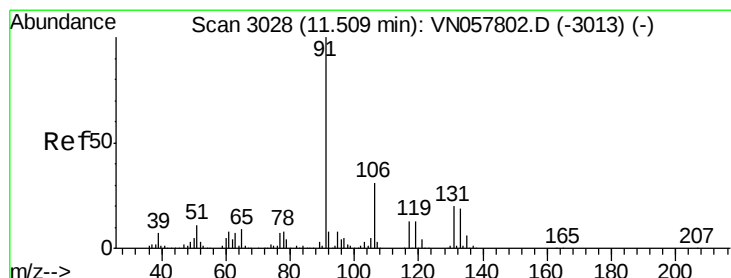
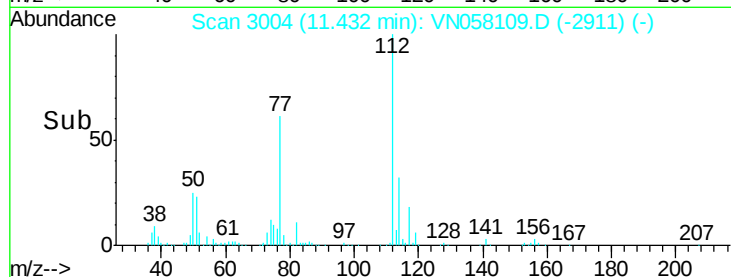
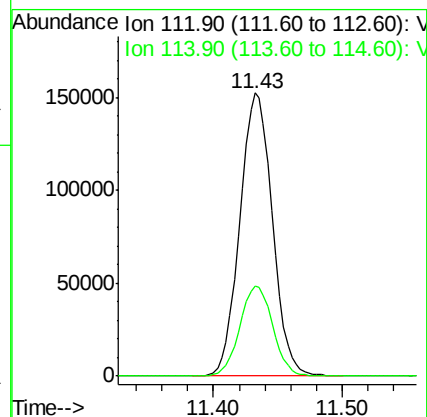
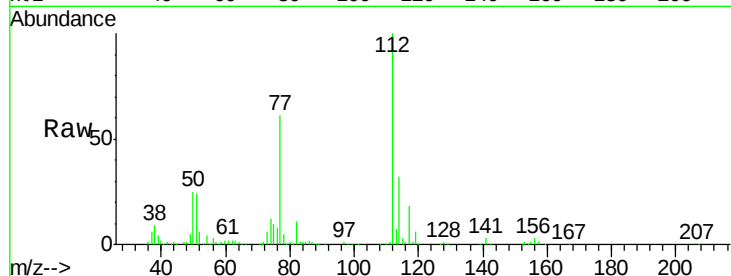
114 31.7 25.2 37.8

Manual Integrations

APPROVED

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#66

1,1,1,2-Tetrachloroethane

Concen: 22.049 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

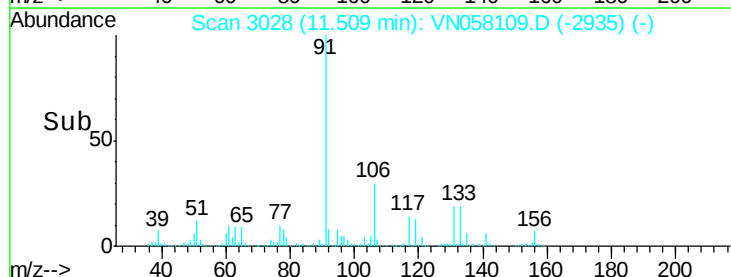
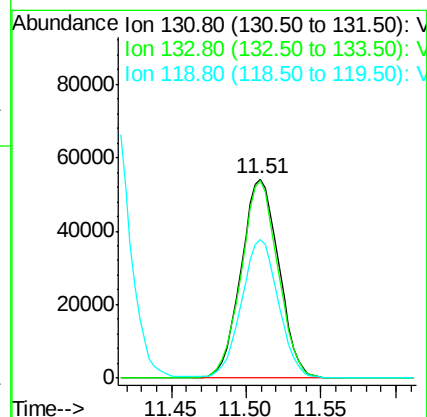
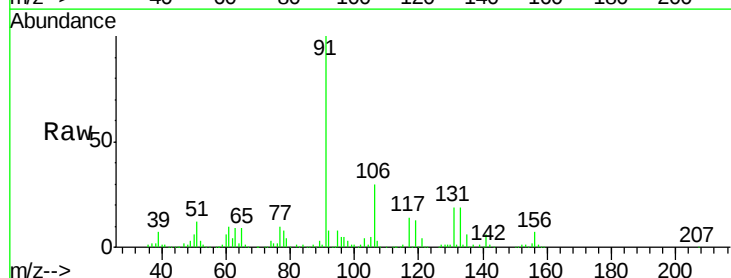
Tgt Ion:131 Resp: 95483

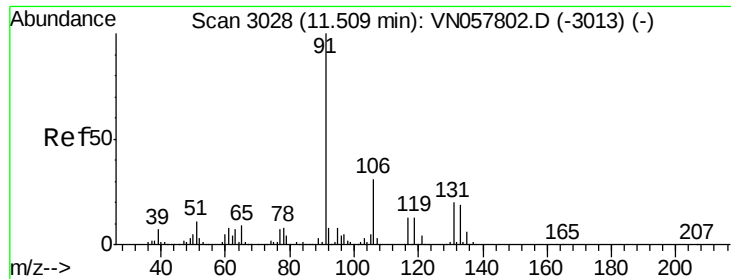
Ion Ratio Lower Upper

131 100

133 96.6 47.1 141.3

119 68.2 33.3 99.8





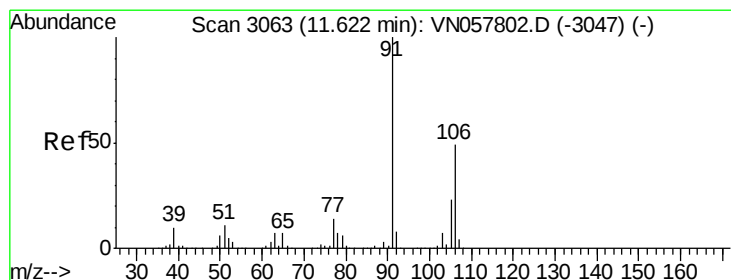
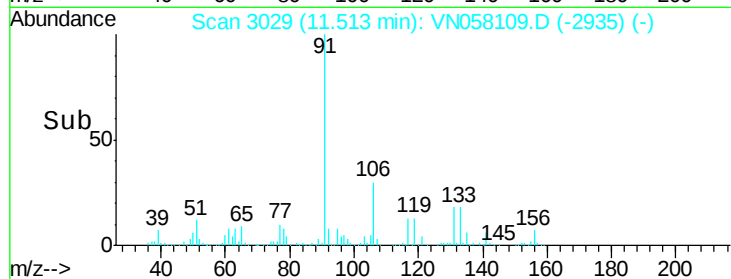
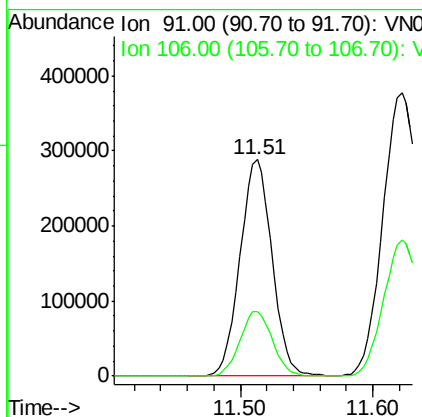
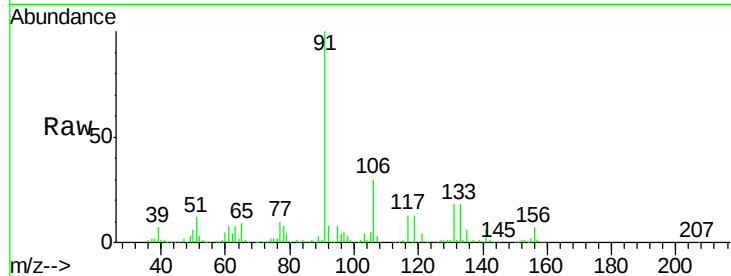
#67
Ethyl Benzene
Concen: 22.121 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion: 91 Resp: 483825
Ion Ratio Lower Upper
91 100
106 30.0 24.4 36.6

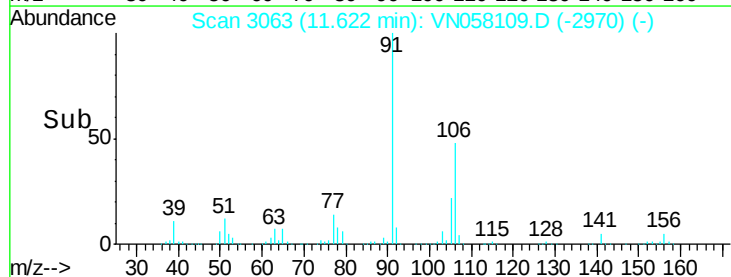
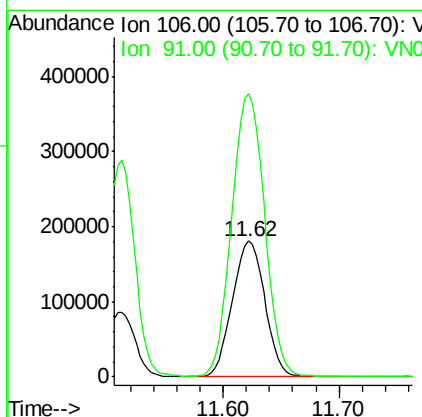
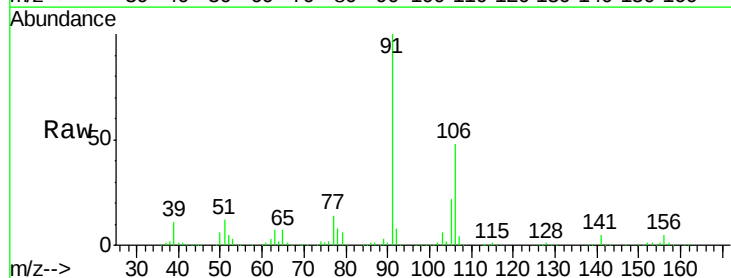
Manual Integrations
APPROVED

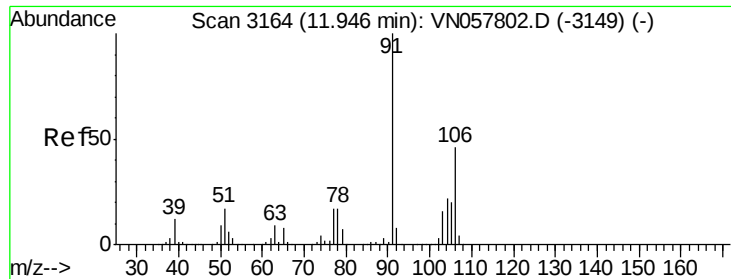
MMDadoda
9/18/2019 2:56:56 PM



#68
m/p-Xylenes
Concen: 43.890 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion: 106 Resp: 351627
Ion Ratio Lower Upper
106 100
91 210.6 165.8 248.6





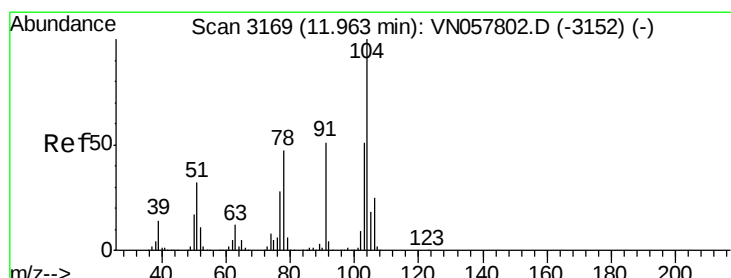
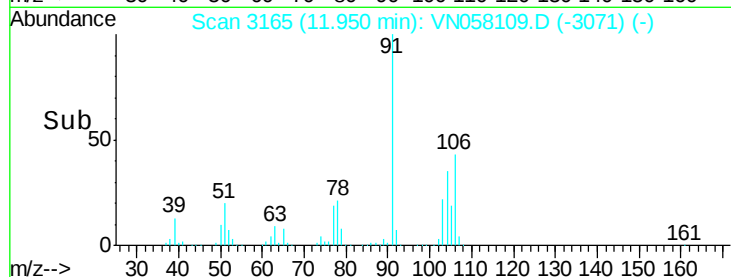
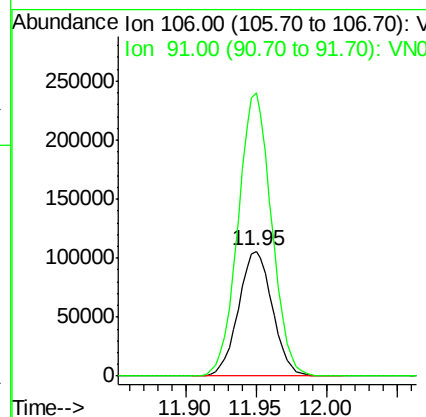
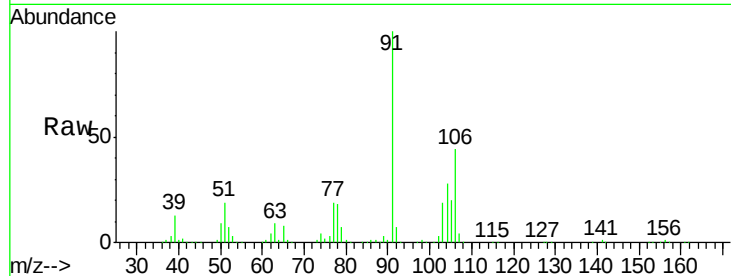
#69
o-Xylene
Concen: 22.432 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampled :
VN0916WBS01

Tot Ion:106 Resp: 178667
Ion Ratio Lower Upper
106 100
91 222.9 108.7 326.1

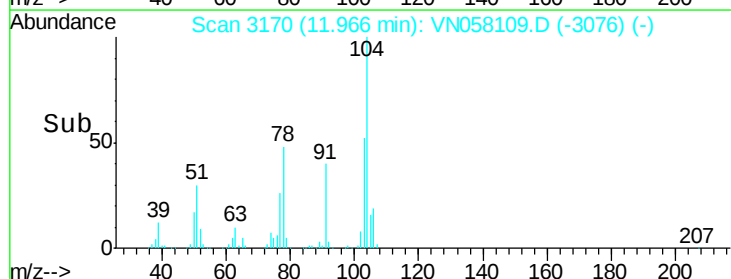
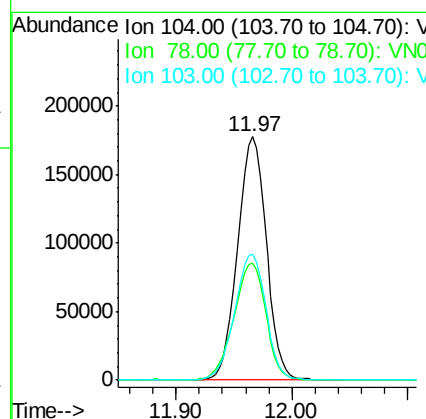
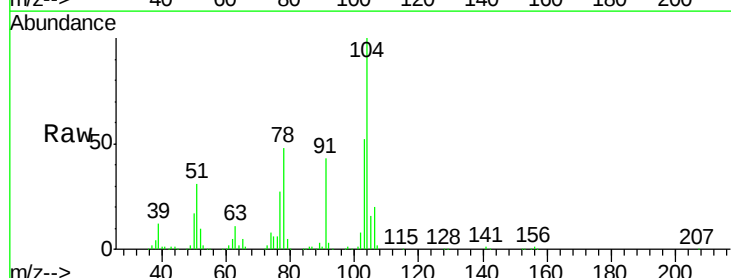
Manual Integrations
APPROVED

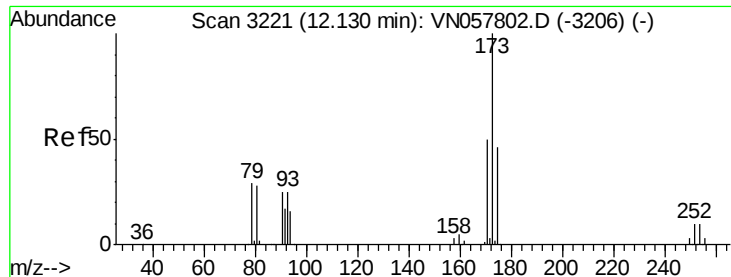
MMDadoda
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#70
Styrene
Concen: 22.241 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion:104 Resp: 304861
Ion Ratio Lower Upper
104 100
78 53.0 41.3 61.9
103 56.5 43.7 65.5





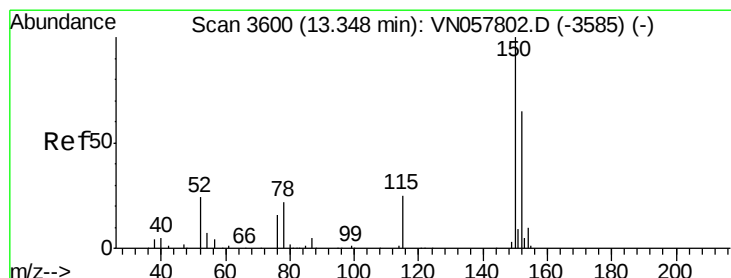
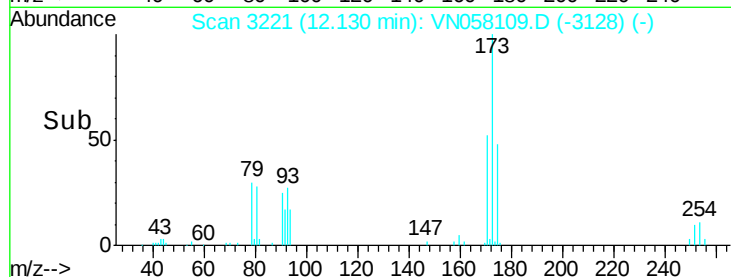
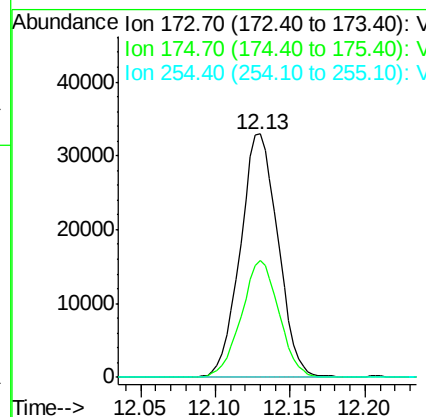
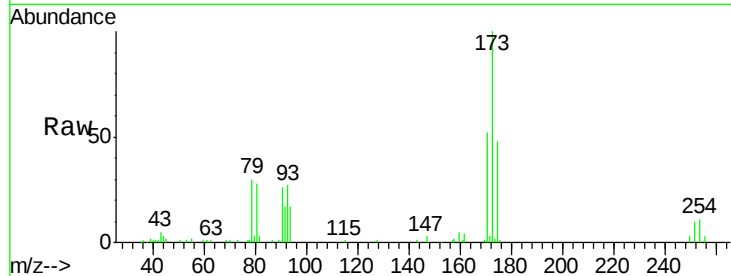
#71
Bromoform
Concen: 21.418 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.8	23.5	70.6
254	0.0	0.1	0.1#

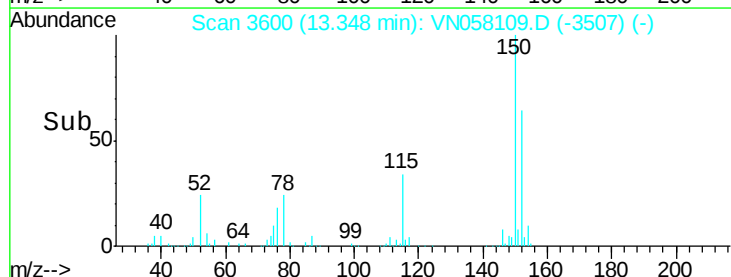
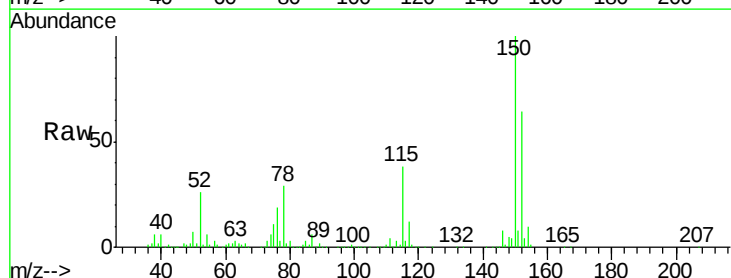
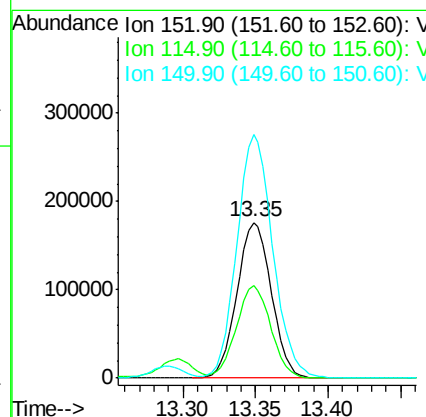
Manual Integrations
APPROVED

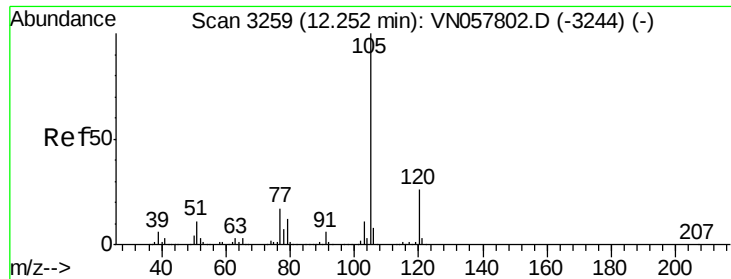
MMDadoda
9/18/2019 2:56:56 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.2	30.3	91.0
150	163.2	0.0	352.4





#73

Isopropylbenzene

Concen: 21.772 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0916WBS01

Tot Ion:105 Resp: 489877

Ion Ratio Lower Upper

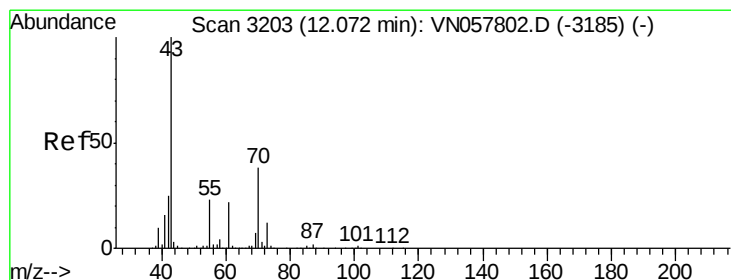
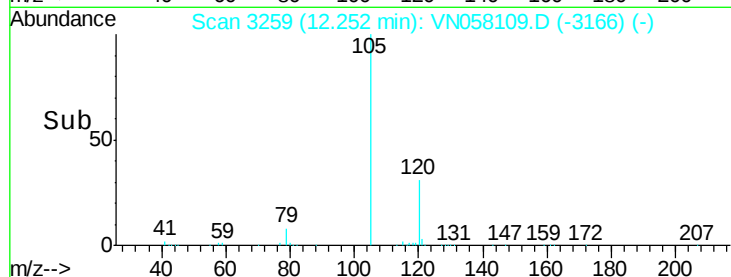
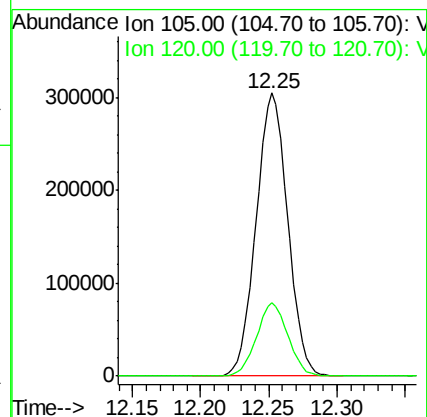
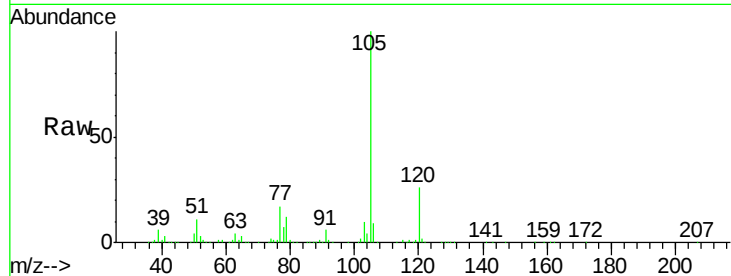
105 100

120 25.7 12.8 38.4

Manual Integrations
APPROVED

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9/18/2019 2:56:56 PM



#74

N-ethyl acetate

Concen: 20.931 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Tgt Ion: 43 Resp: 204961

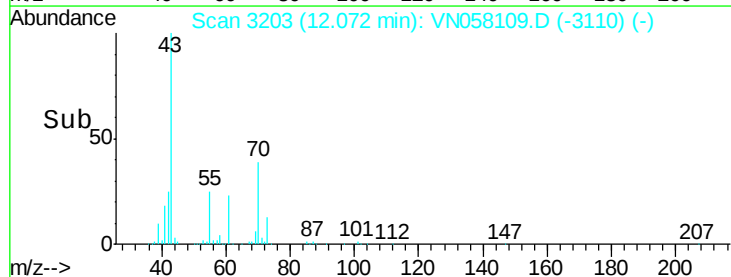
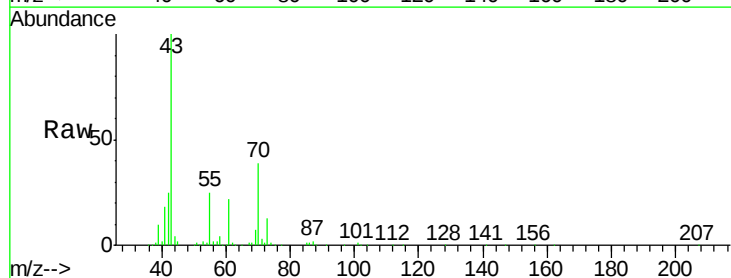
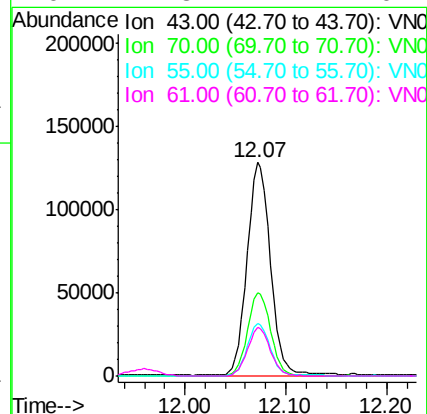
Ion Ratio Lower Upper

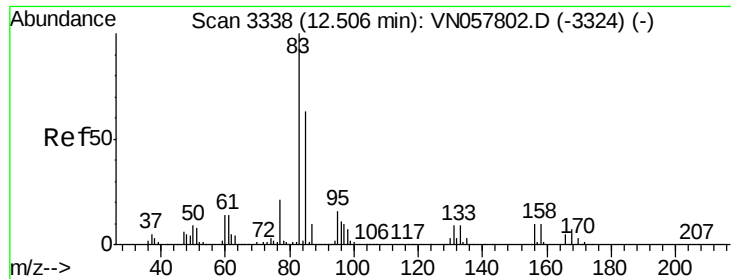
43 100

70 39.1 30.6 45.8

55 24.4 18.6 27.8

61 22.3 17.4 26.2





#75

1,1,2,2-Tetrachloroethane

Concen: 21.311 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

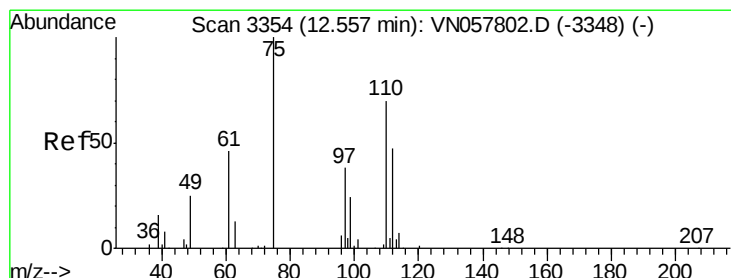
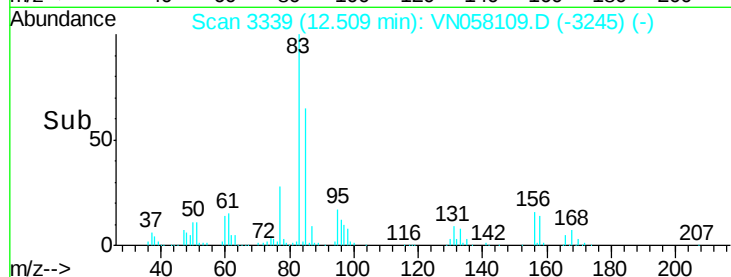
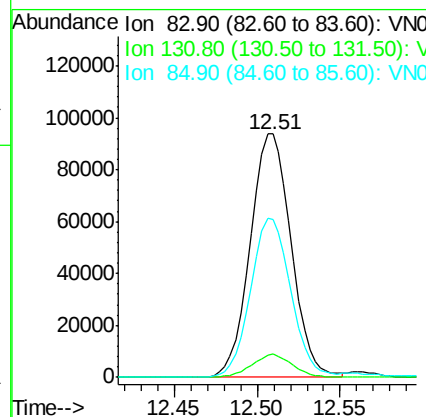
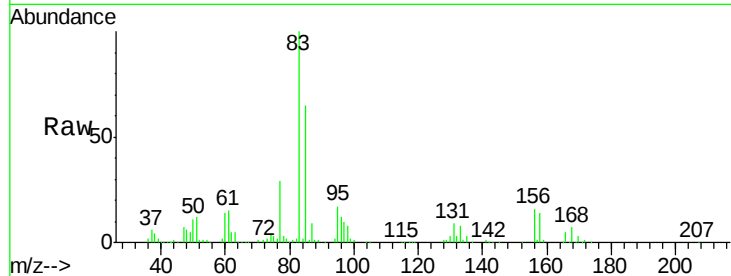
ClientSampleId :

VN0916WBS01

Tot Ion:	83	Resp:	161449
Ion Ratio	Lower	Upper	
83	100		
131	9.3	4.8	14.3
85	64.3	31.6	94.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.107 ug/l m

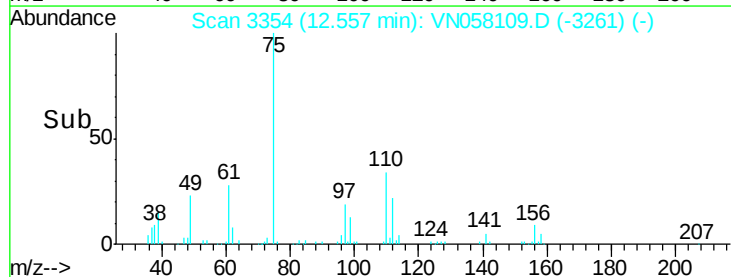
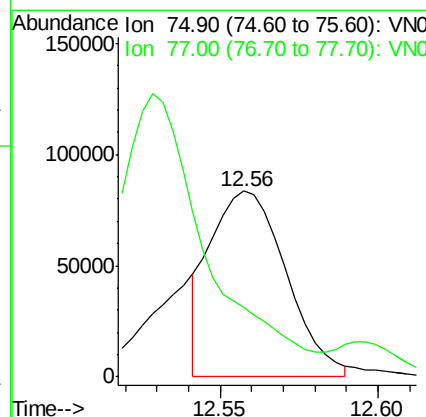
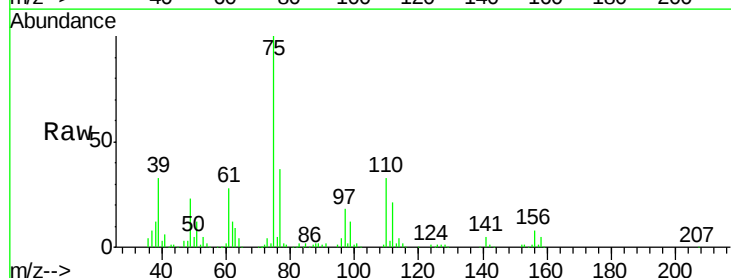
RT: 12.56 min Scan# 3354

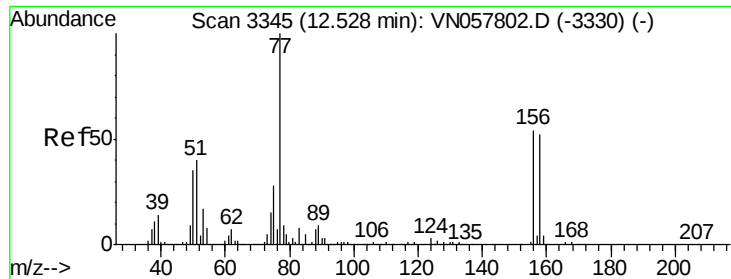
Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Tgt Ion:	75	Resp:	138452
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.919 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

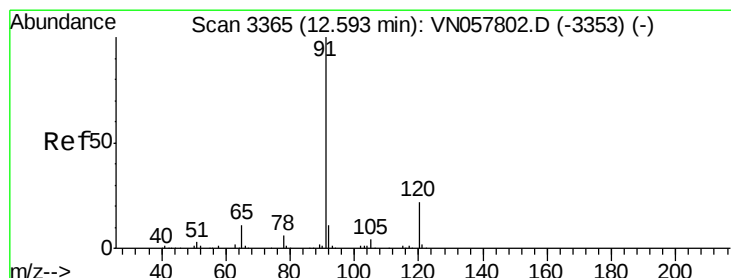
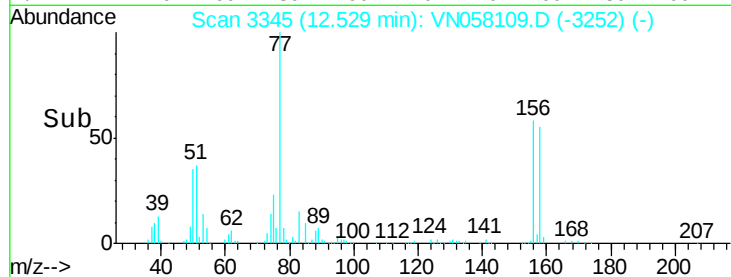
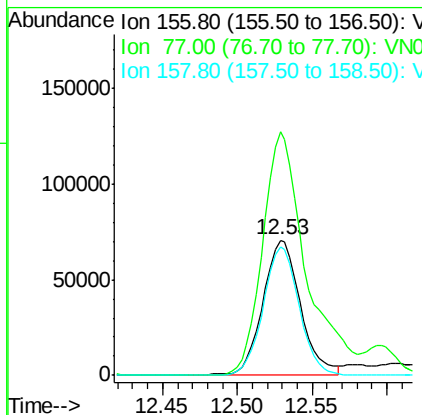
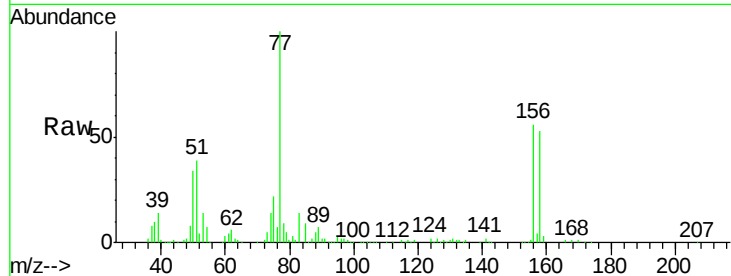
ClientSampleId :

VN0916WBS01

Tot Ion:	156	Resp:	122960
Ion Ratio	Lower	Upper	
156	100		
77	209.1	113.7	341.1
158	90.9	48.5	145.6

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#78

n-propylbenzene

Concen: 22.129 ug/l

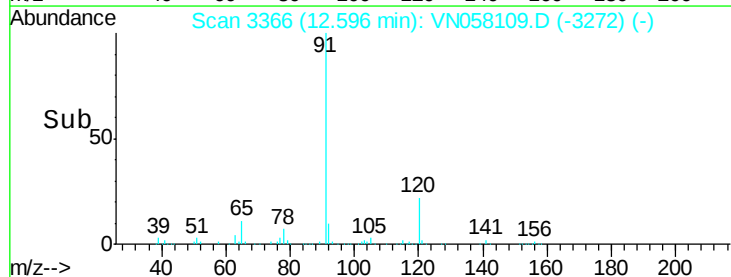
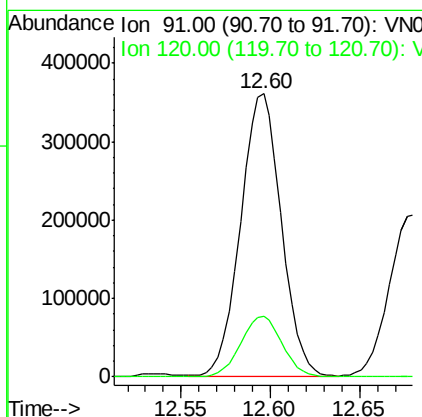
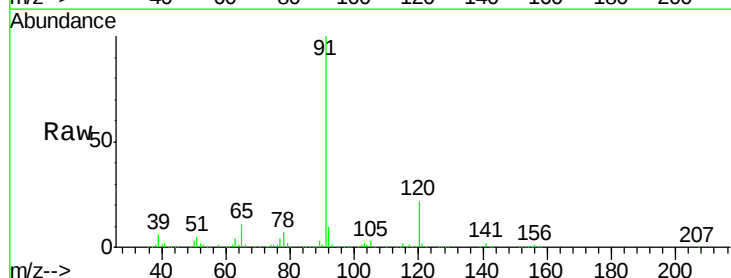
RT: 12.60 min Scan# 3366

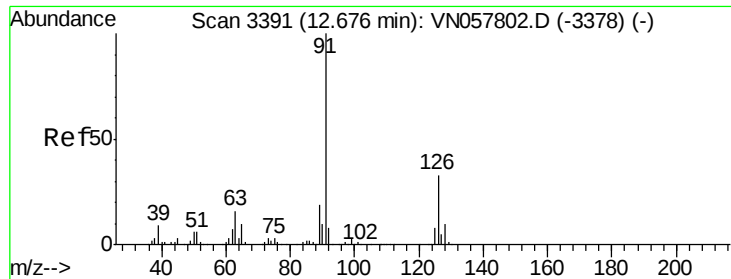
Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Tgt Ion:	91	Resp:	571753
Ion Ratio	Lower	Upper	
91	100		
120	21.9	11.1	33.1





#79

2-Chlorotoluene

Concen: 20.671 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0916WBS01

Tot Ion: 91 Resp: 337558

Ion Ratio Lower Upper

91 100

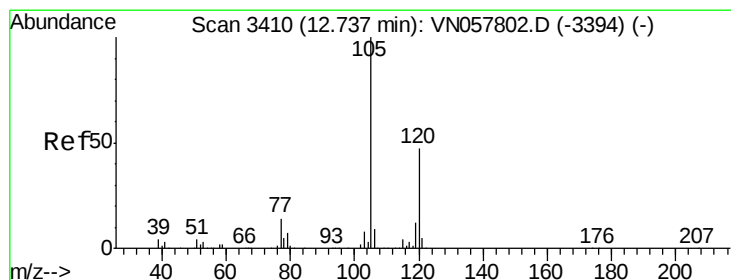
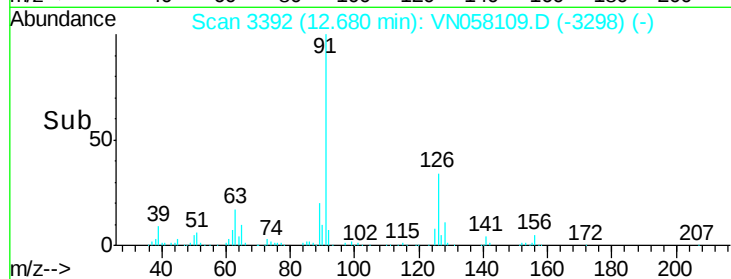
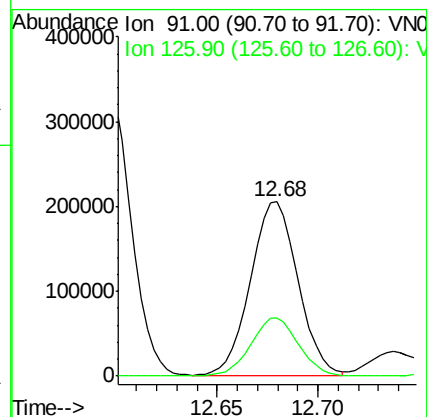
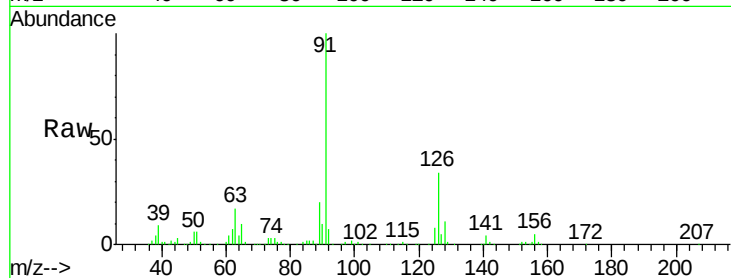
126 33.9 16.4 49.2

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#80

1,3,5-Trimethylbenzene

Concen: 21.978 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058109.D

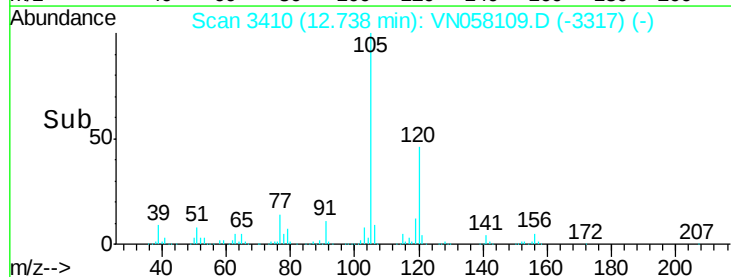
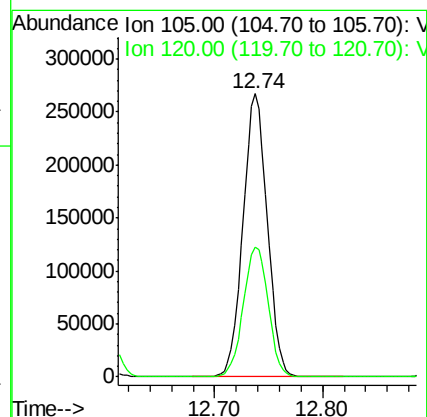
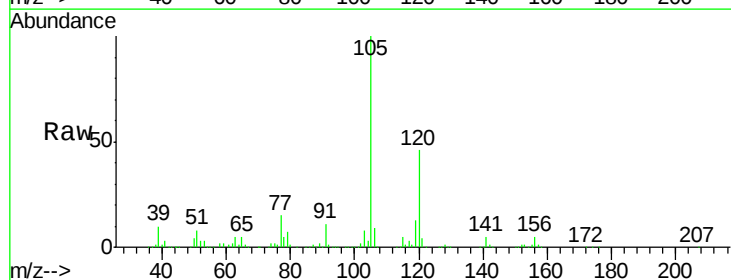
Acq: 16 Sep 2019 11:44

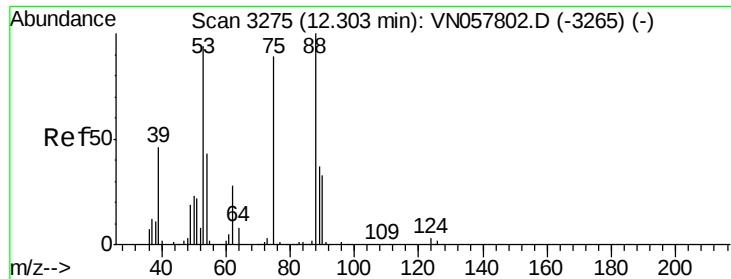
Tgt Ion: 105 Resp: 417824

Ion Ratio Lower Upper

105 100

120 47.2 23.7 71.1





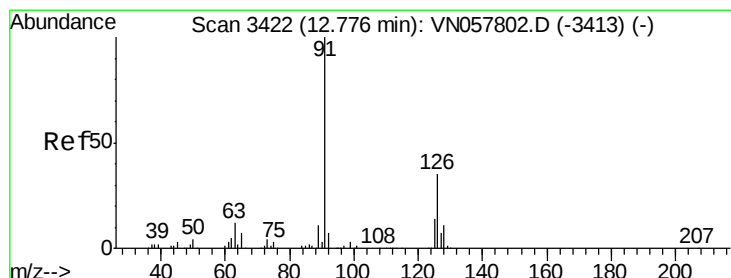
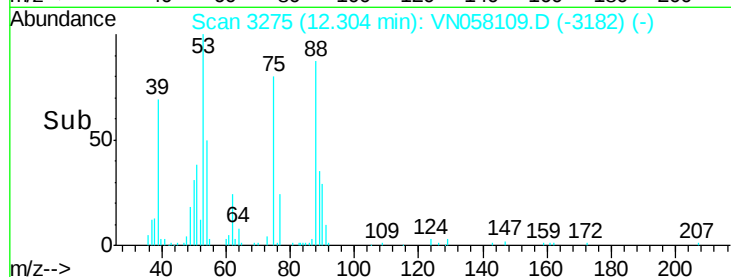
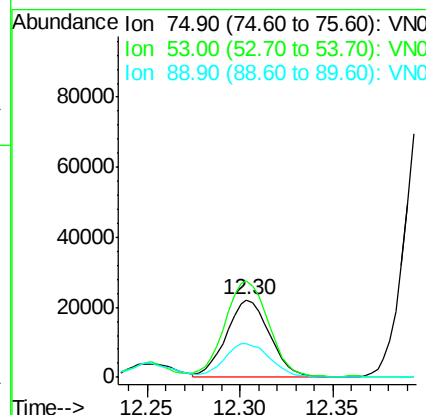
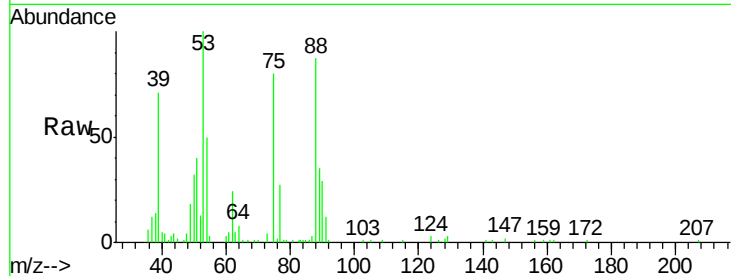
#81
trans-1,4-Dichloro-2-butene
Concen: 19.315 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	124.1	88.4	132.6
89	46.4	35.3	52.9

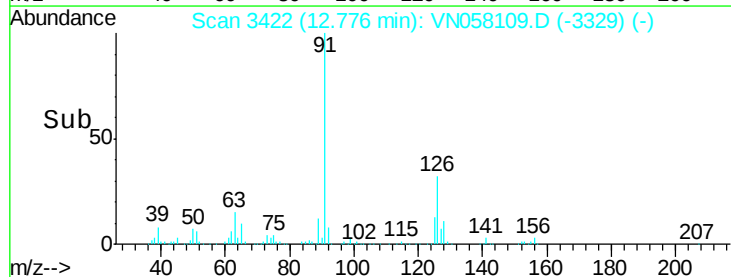
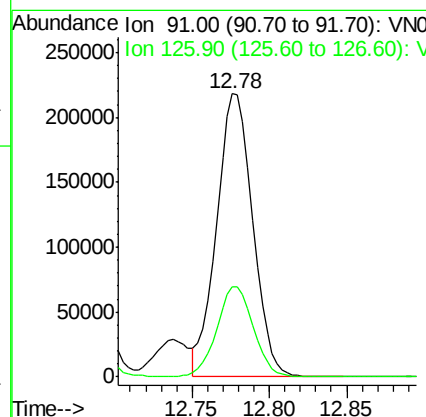
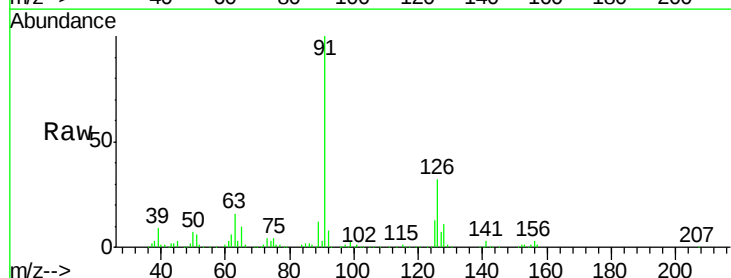
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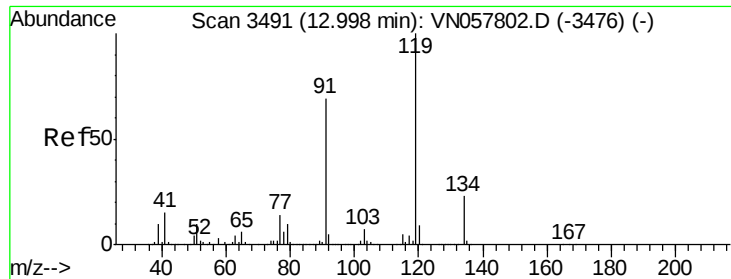
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#82
4-Chlorotoluene
Concen: 21.059 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.0	48.0





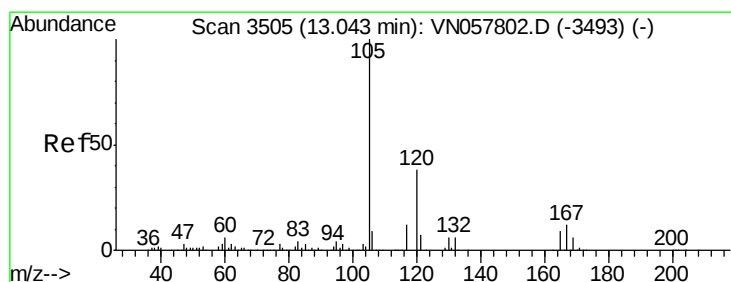
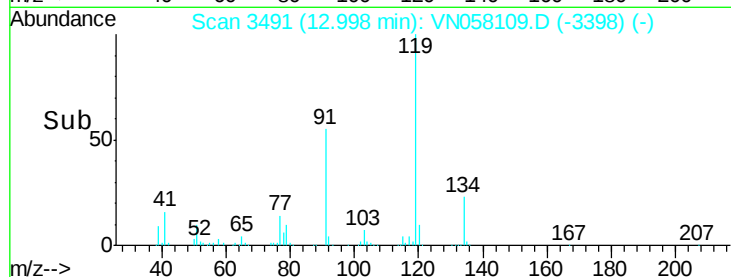
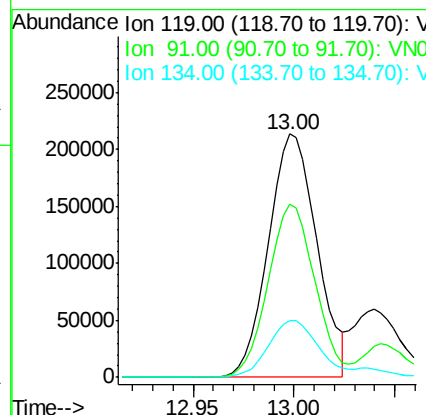
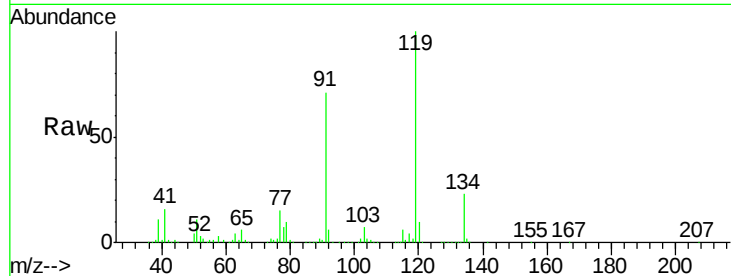
#83
 tert-Butylbenzene
 Concen: 21.127 ug/l
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Instrument :
 MSVOA_N
 ClientSampled :
 VN0916WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	357028		
91	68.3		33.6	100.8
134	23.8		11.7	35.0

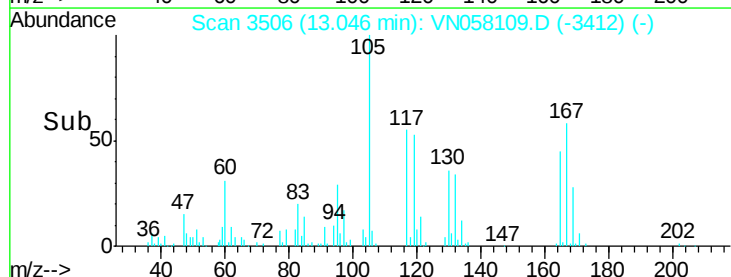
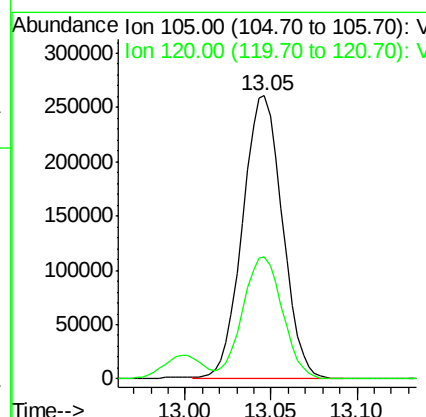
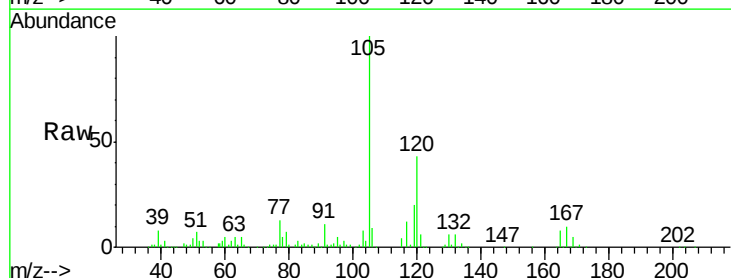
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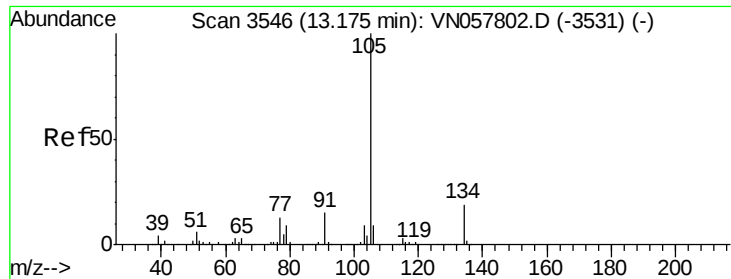
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.602 ug/l
 RT: 13.05 min Scan# 3506
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	417390		
120	43.4		22.4	67.2





#85

sec-Butylbenzene

Concen: 22.019 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

ClientSampleId :

VN0916WBS01

Tot Ion:105 Resp: 493188

Ion Ratio Lower Upper

105 100

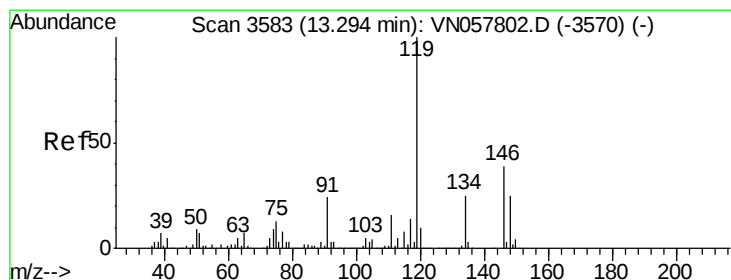
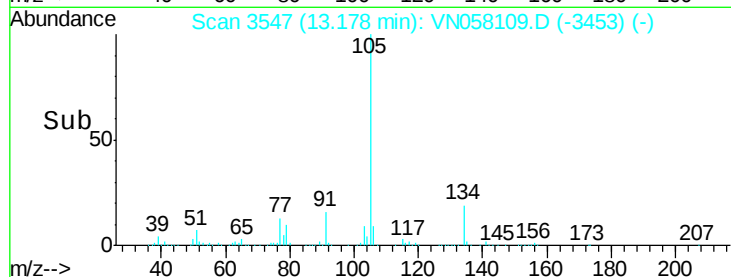
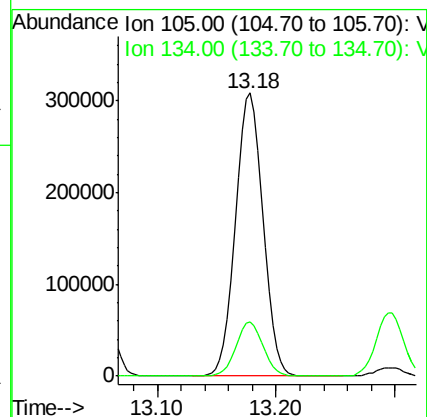
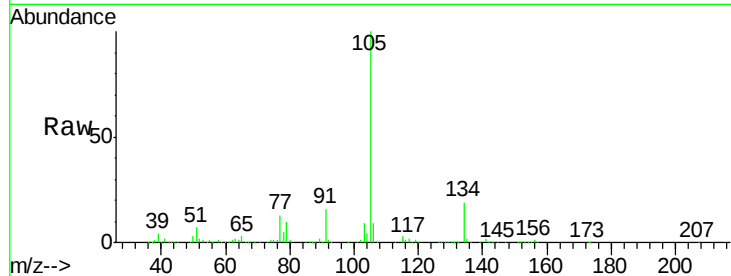
134 18.9 9.6 28.6

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 22.252 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

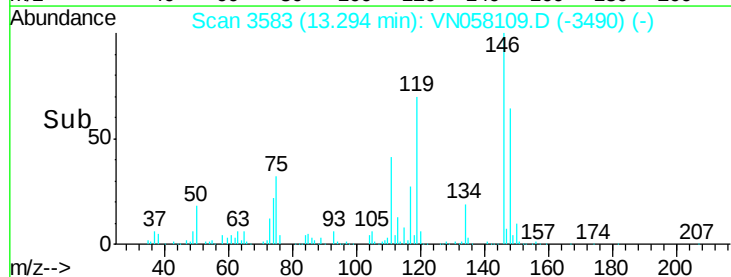
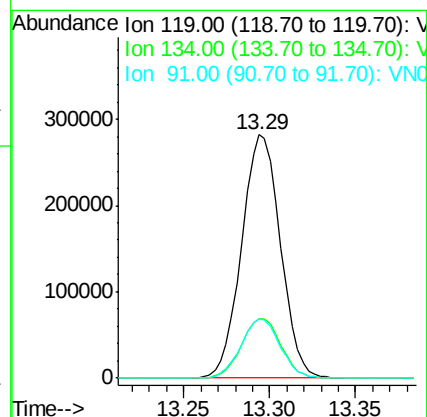
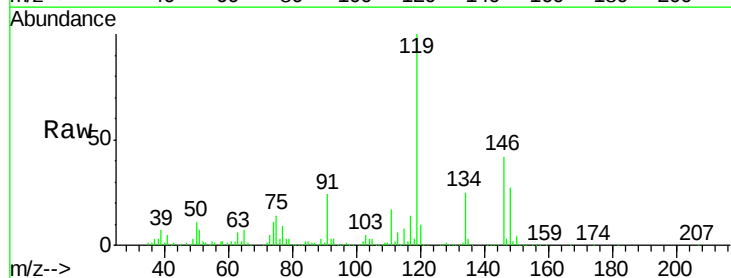
Tgt Ion:119 Resp: 439157

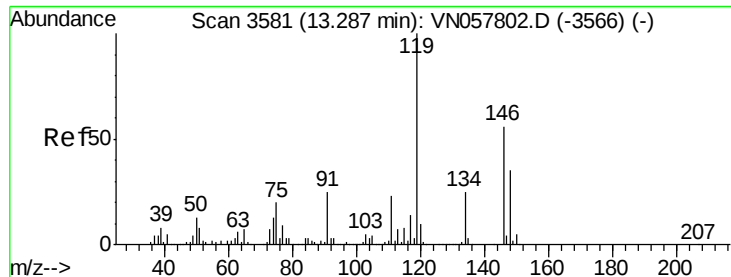
Ion Ratio Lower Upper

119 100

134 25.2 12.5 37.5

91 24.3 12.3 36.8





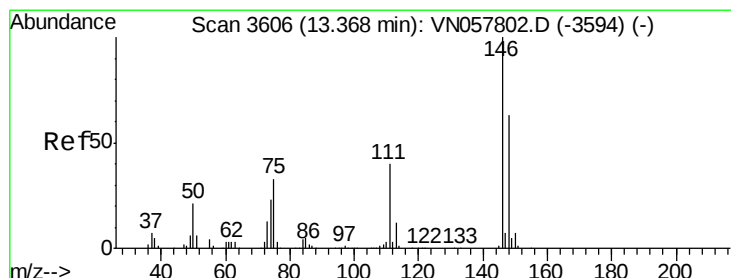
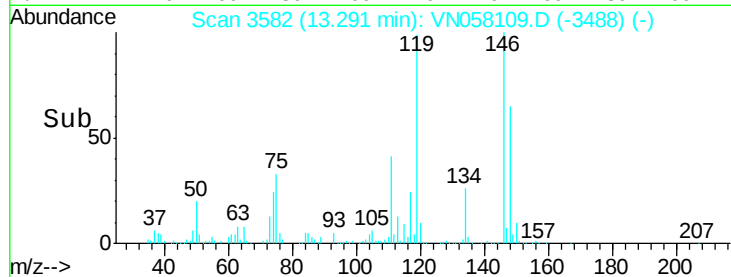
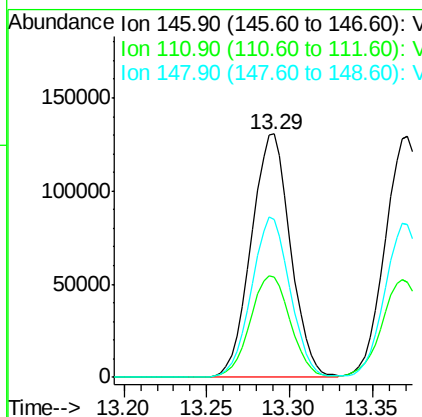
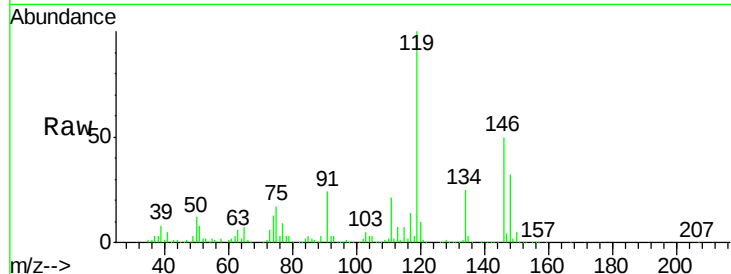
#87
 1,3-Dichlorobenzene
 Concen: 21.024 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Instrument :
 MSVOA_N
 ClientSampled :
 VN0916WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	216482		
111	42.5	20.5	61.6	
148	64.5	31.5	94.5	

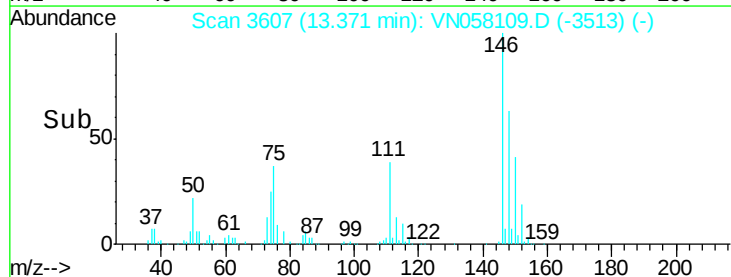
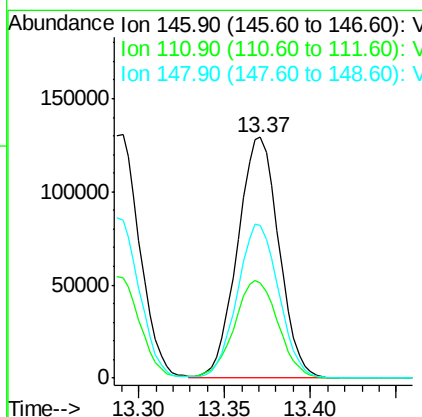
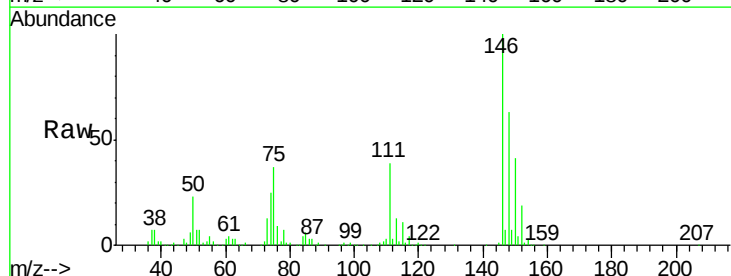
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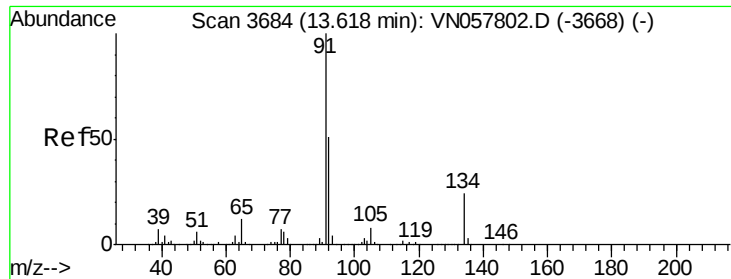
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#88
 1,4-Dichlorobenzene
 Concen: 20.559 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	214878		
111	42.9	20.4	61.2	
148	64.1	31.8	95.4	





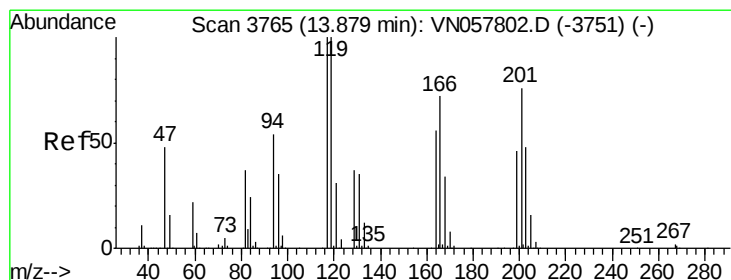
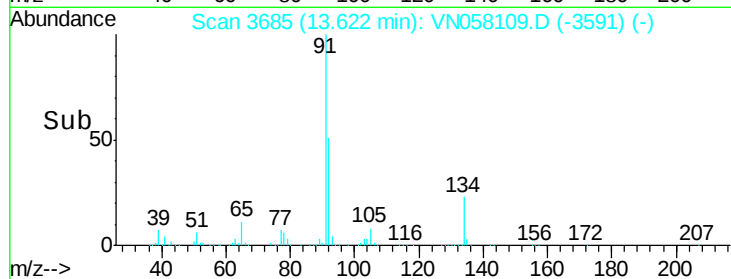
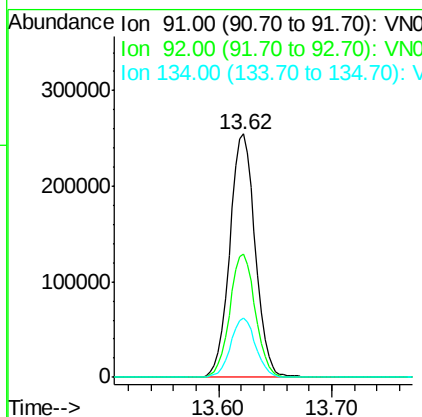
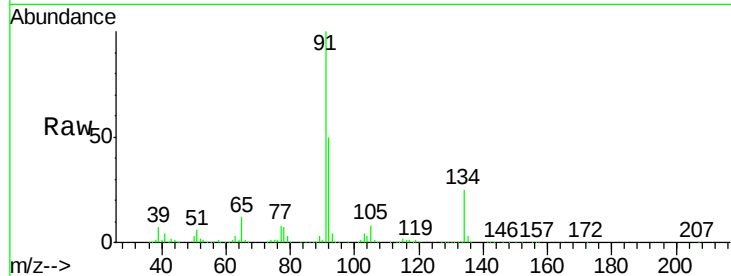
#89
n-Butylbenzene
Concen: 21.324 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.1	25.7	77.0
134	24.1	11.9	35.7

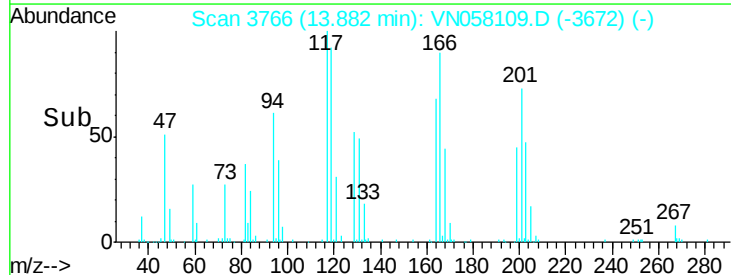
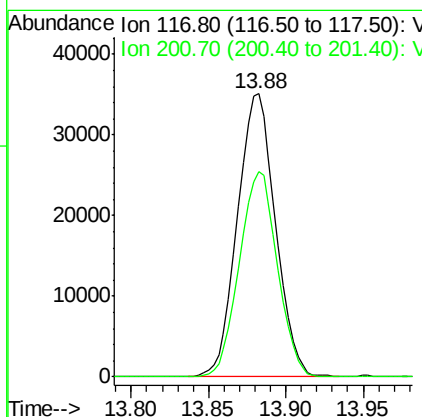
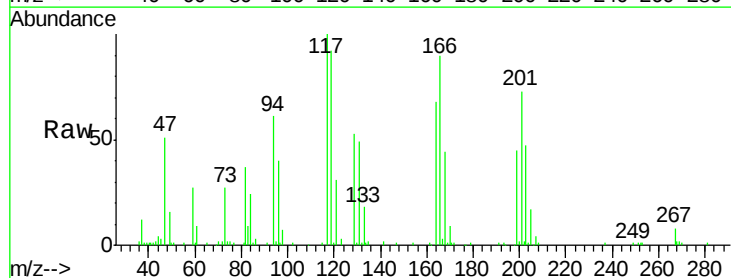
Manual Integrations
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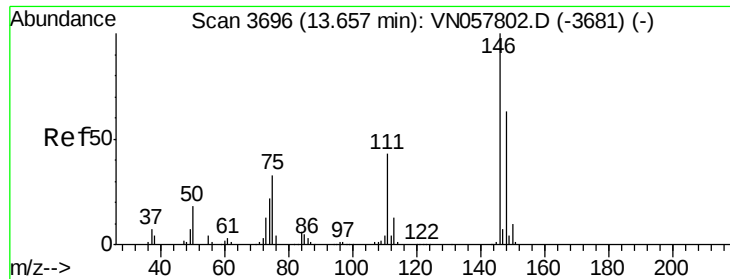
MMDadoda
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#90
Hexachloroethane
Concen: 20.442 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Lower	Upper
117	100		
201	72.3	37.5	112.7





#91

1,2-Dichlorobenzene

Concen: 21.186 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Instrument :

MSVOA_N

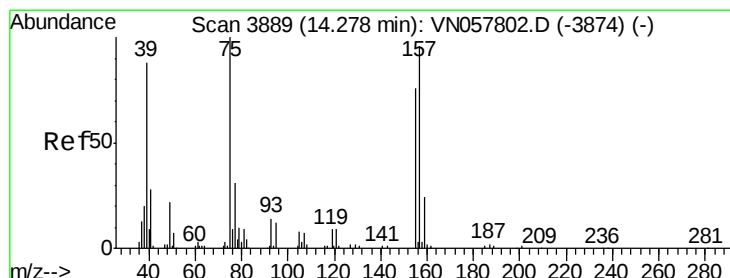
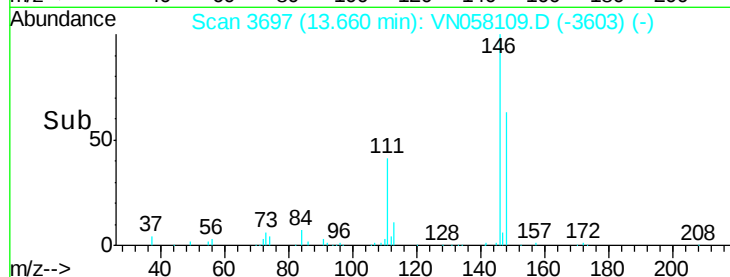
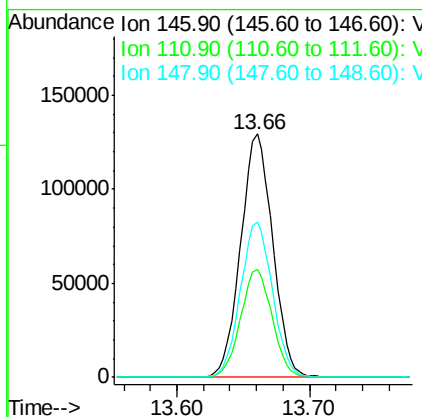
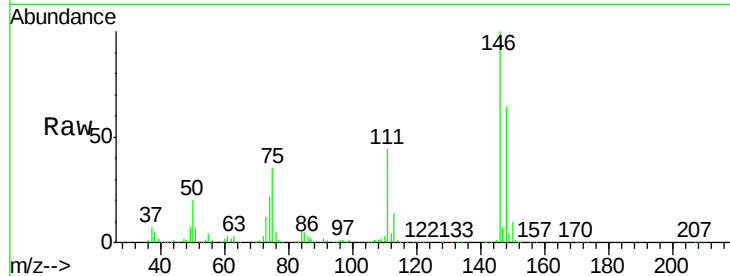
ClientSampleId :

VN0916WBS01

Tot Ion:	146	Resp:	217937
Ion Ratio	Lower	Upper	
146	100		
111	43.8	21.3	63.9
148	63.7	31.4	94.3

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 21.538 ug/l

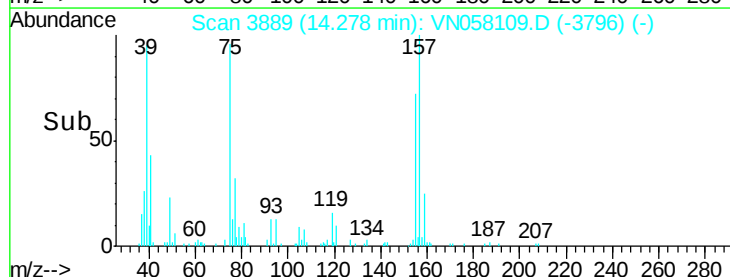
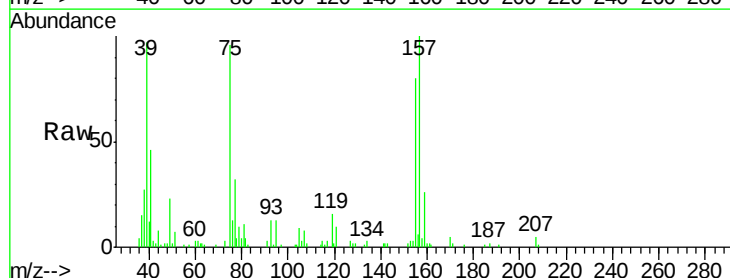
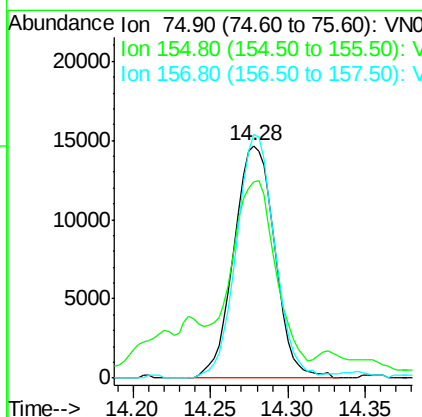
RT: 14.28 min Scan# 3889

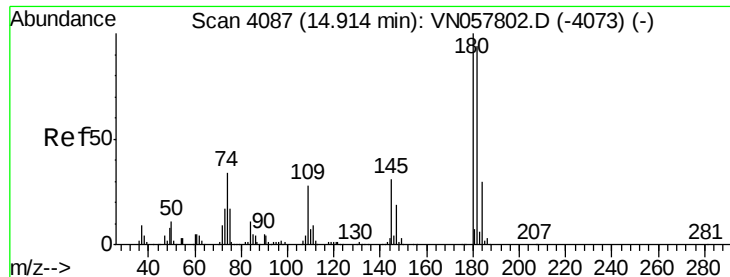
Delta R.T. 0.00 min

Lab File: VN058109.D

Acq: 16 Sep 2019 11:44

Tgt Ion:	75	Resp:	26946
Ion Ratio	Lower	Upper	
75	100		
155	82.3	37.3	111.8
157	98.5	47.9	143.8





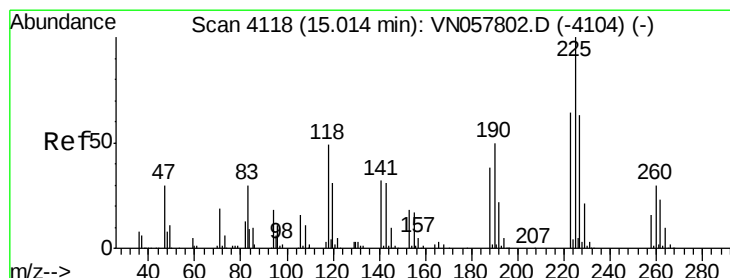
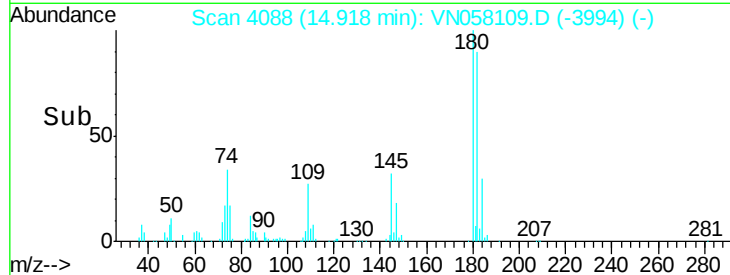
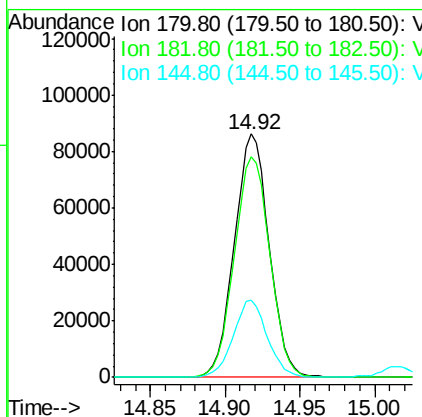
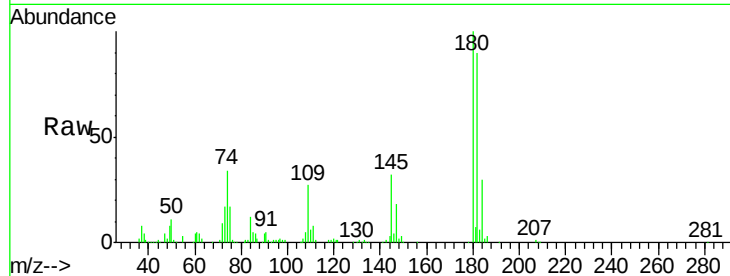
#93
 1,2,4-Trichlorobenzene
 Concen: 20.763 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0916WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	92.7	46.9	140.8	
145	31.0	14.9	44.7	

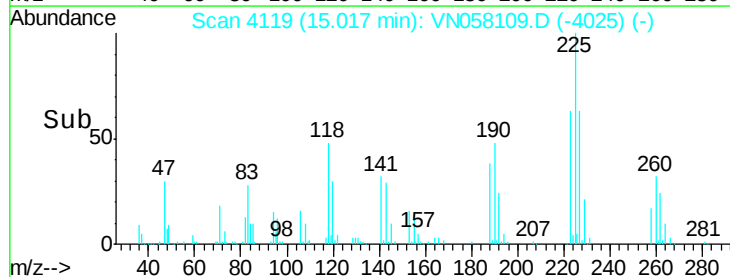
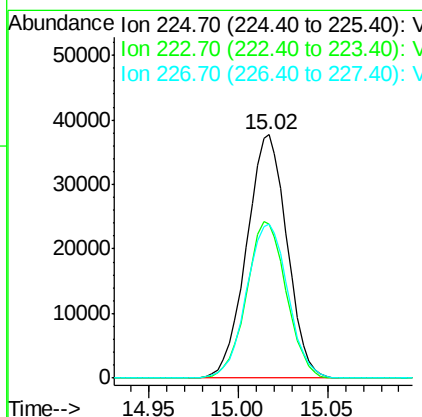
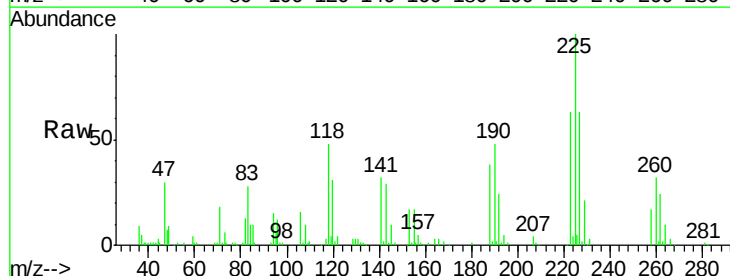
Manual Integrations
 APPROVED

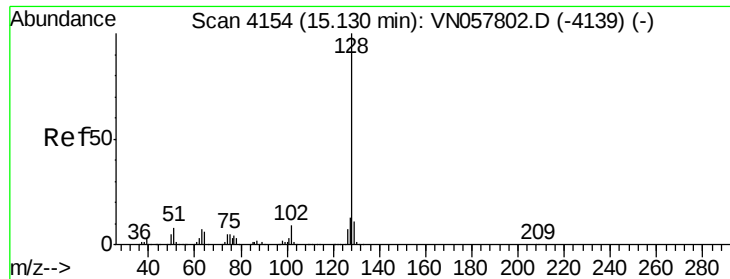
MMDadoda
 9/18/2019 2:56:56 PM



#94
 Hexachlorobutadiene
 Concen: 20.992 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN058109.D
 Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.2	32.4	97.2	
227	65.0	31.8	95.4	





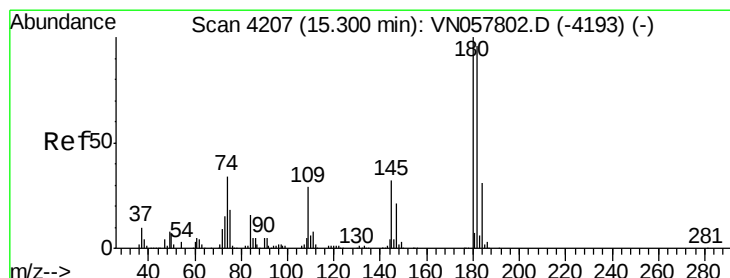
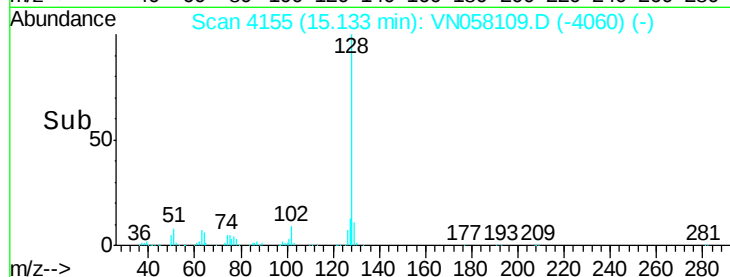
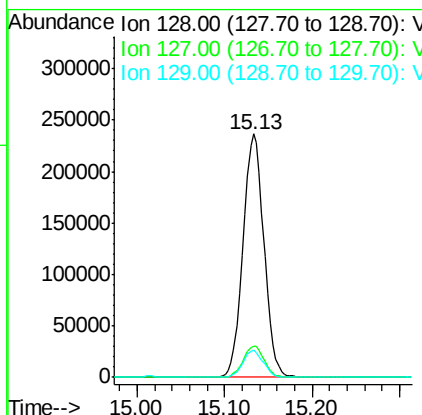
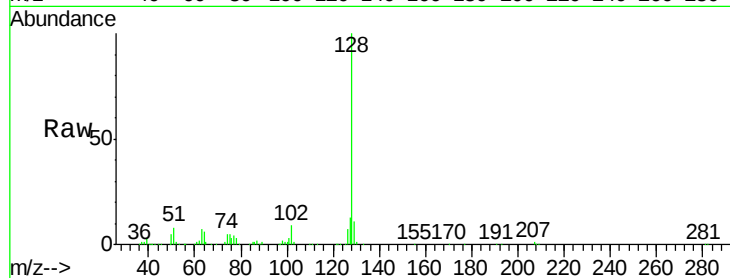
#95
Naphthalene
Concen: 22.311 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Instrument :
MSVOA_N
ClientSampleId :
VN0916WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	11.0	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
9/18/2019 2:56:56 PM



#96
1,2,3-Trichlorobenzene
Concen: 22.799 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN058109.D
Acq: 16 Sep 2019 11:44

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	48.3	144.8
145	32.5	16.3	48.8

