

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050719\
 Data File : VN055443.D
 Acq On : 7 May 2019 17:35
 Operator : JC/SP
 Sample : K2658-24MSD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-PZ-W4-5MSD

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 10:22:27 AM

Quant Time: May 08 07:05:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	360897	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	583690	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	515296	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	228131	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	256101	54.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.48%	
35) Dibromofluoromethane	7.59	113	195857	51.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.24%	
50) Toluene-d8	10.09	98	698702	50.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.02%	
62) 4-Bromofluorobenzene	12.40	95	251945	58.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	203183	45.951	ug/l	100
3) Chloromethane	2.06	50	237337	43.347	ug/l	100
4) Vinyl Chloride	2.19	62	199836	45.278	ug/l	100
5) Bromomethane	2.56	94	109634	46.896	ug/l	98
6) Chloroethane	2.70	64	112735	47.151	ug/l	99
7) Trichlorofluoromethane	3.02	101	302830	48.253	ug/l	97
8) Diethyl Ether	3.41	74	124843	56.858	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	187446	50.157	ug/l	99
10) Methyl Iodide	3.96	142	247650	47.087	ug/l	99
11) Tert butyl alcohol	4.79	59	118172	437.172	ug/l	99
12) 1,1-Dichloroethene	3.74	96	172461	48.375	ug/l	98
13) Acrolein	3.61	56	67919	321.735	ug/l	99
14) Allyl chloride	4.33	41	395750	53.599	ug/l	98
15) Acrylonitrile	4.99	53	512908	337.576	ug/l	99
16) Acetone	3.82	43	391906	266.401	ug/l	99
17) Carbon Disulfide	4.06	76	424788	45.657	ug/l	99
18) Methyl Acetate	4.33	43	242777	68.121	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	615892	61.452	ug/l	99
20) Methylene Chloride	4.55	84	217509	48.440	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	182294	48.281	ug/l	98
22) Diisopropyl ether	5.95	45	842327	57.416	ug/l	98
23) Vinyl Acetate	5.90	43	2796636	290.861	ug/l	100
24) 1,1-Dichloroethane	5.85	63	412751	52.804	ug/l	98
25) 2-Butanone	6.84	43	650942	345.995	ug/l	99
26) 2,2-Dichloropropane	6.83	77	269433	49.917	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	228403	53.196	ug/l	99
28) Bromochloromethane	7.20	49	200726	50.945	ug/l	97
29) Tetrahydrofuran	7.21	42	438235	363.775	ug/l	99
30) Chloroform	7.37	83	396002	53.443	ug/l	99
31) Cyclohexane	7.65	56	346998	46.724	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	318129	52.900	ug/l	99
36) 1,1-Dichloropropene	7.80	75	268620	48.046	ug/l	100
37) Ethyl Acetate	6.93	43	257333	60.056	ug/l	98
38) Carbon Tetrachloride	7.78	117	265751	49.276	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	298300	50.183	ug/l	95
40) Benzene	8.04	78	833251	50.557	ug/l	100
41) Methacrylonitrile	7.18	41	148287	63.737	ug/l	98
42) 1,2-Dichloroethane	8.13	62	310183	53.137	ug/l	99
43) Isopropyl Acetate	8.17	43	454301	65.974	ug/l	98
44) Trichloroethene	8.84	130	210454	50.089	ug/l	99
45) 1,2-Dichloropropane	9.12	63	252338	53.084	ug/l	100
46) Dibromomethane	9.21	93	141382	54.413	ug/l	99
47) Bromodichloromethane	9.40	83	299219	53.680	ug/l	96
48) Methyl methacrylate	9.20	41	222723	65.793	ug/l	98
49) 1,4-Dioxane	9.20	88	54915	1569.259	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	1414227	364.775	ug/l	99
52) Toluene	10.16	92	493577	52.194	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	294259	60.811	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	338919	56.176	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	201222	57.302	ug/l	99
56) Ethyl methacrylate	10.43	69	296512	68.601	ug/l	100
57) 1,3-Dichloropropane	10.71	76	351831	57.112	ug/l	100
59) 2-Hexanone	10.75	43	910167	375.207	ug/l	99
60) Dibromochloromethane	10.90	129	213500	59.487	ug/l	99
61) 1,2-Dibromoethane	11.01	107	190947	58.830	ug/l	97
64) Tetrachloroethene	10.63	164	194225	46.091	ug/l	99
65) Chlorobenzene	11.43	112	513728	50.992	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	203124	51.490	ug/l	100
67) Ethyl Benzene	11.51	91	1015852	55.838	ug/l	100
68) m/p-Xylenes	11.62	106	698433	107.553	ug/l	100
69) o-Xylene	11.95	106	356921	55.453	ug/l	99
70) Styrene	11.96	104	579863	58.675	ug/l	100
71) Bromoform	12.13	173	138161	63.116	ug/l #	97
73) Isopropylbenzene	12.25	105	1081642	60.234	ug/l	99
74) N-amyl acetate	12.07	43	374155	63.907	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	272685	61.029	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	226845m	53.682	ug/l	
77) Bromobenzene	12.53	156	226418	52.121	ug/l	96
78) n-propylbenzene	12.59	91	1331046	56.800	ug/l	100
79) 2-Chlorotoluene	12.68	91	658802	53.470	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	1962926	109.754	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	65034	54.023	ug/l	93
82) 4-Chlorotoluene	12.77	91	641837	47.106	ug/l	98
83) tert-Butylbenzene	12.99	119	808808	64.750	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	3679536	230.041	ug/l	99
85) sec-Butylbenzene	13.17	105	1371838	70.571	ug/l	94
86) p-Isopropyltoluene	13.29	119	879320	55.036	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	383799	50.276	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	373606	51.969	ug/l	99
89) n-Butylbenzene	13.61	91	819107m	72.148	ug/l	
90) Hexachloroethane	13.88	117	204834	81.977	ug/l	66
91) 1,2-Dichlorobenzene	13.65	146	387551	51.222	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	49726	82.853	ug/l	86
93) 1,2,4-Trichlorobenzene	14.91	180	190894	63.071	ug/l #	92

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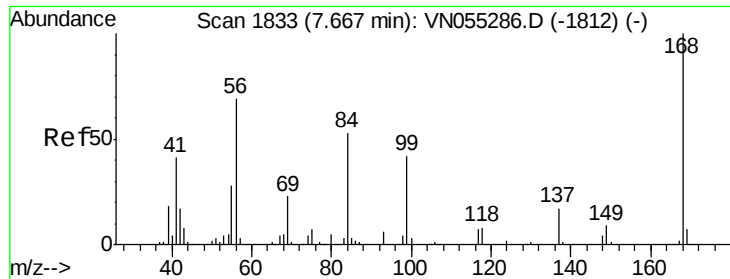
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.01	225	133950	59.359	ug/l	96
95) Naphthalene	15.13	128	434154	67.238	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	196260	65.934	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055443.D

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Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion:168 Resp: 360897

Ion Ratio Lower Upper

168 100

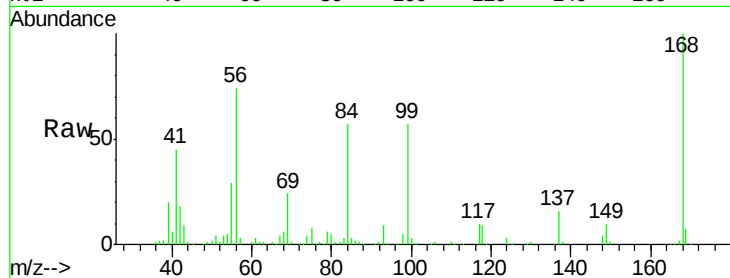
99 56.0 43.6 65.4

Manual Integrations

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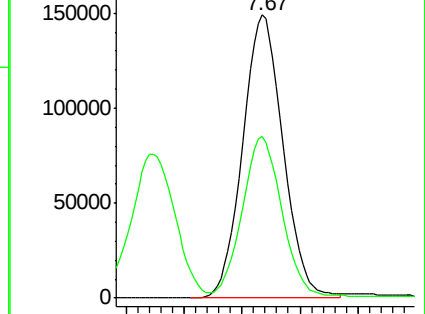
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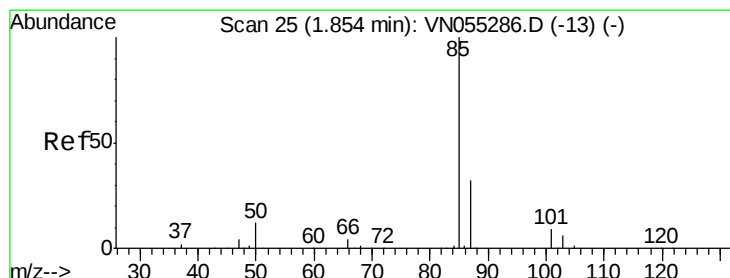
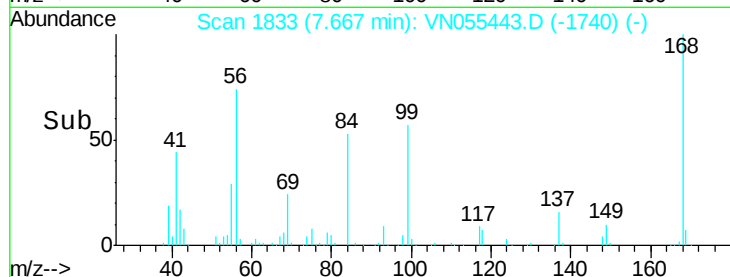


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



Time-->



#2

Dichlorodifluoromethane

Concen: 45.951 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN055443.D

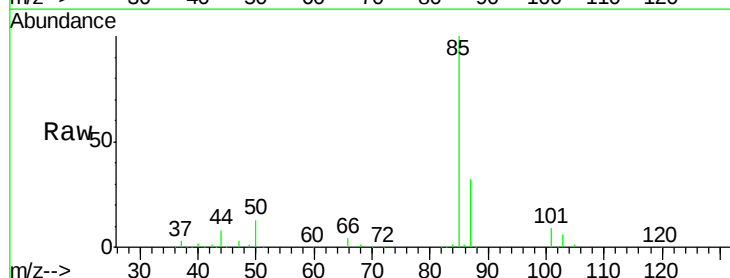
Acq: 7 May 2019 17:35

Tgt Ion: 85 Resp: 203183

Ion Ratio Lower Upper

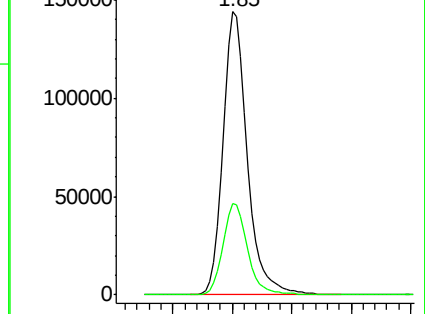
85 100

87 32.1 16.1 48.3

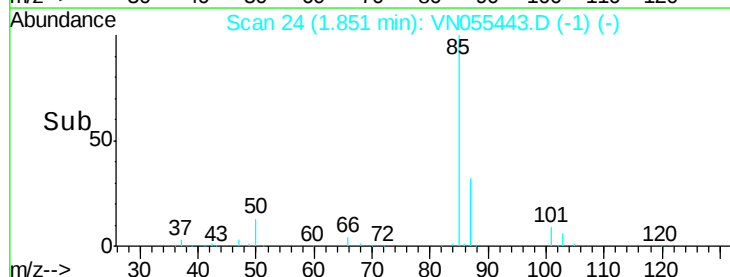


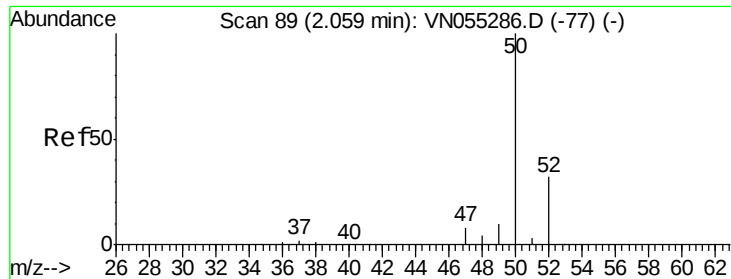
Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO



Time-->





#3

Chloromethane

Concen: 43.347 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion: 50 Resp: 237337

Ion Ratio Lower Upper

50 100

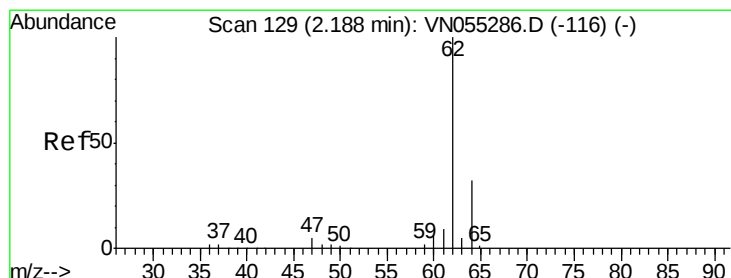
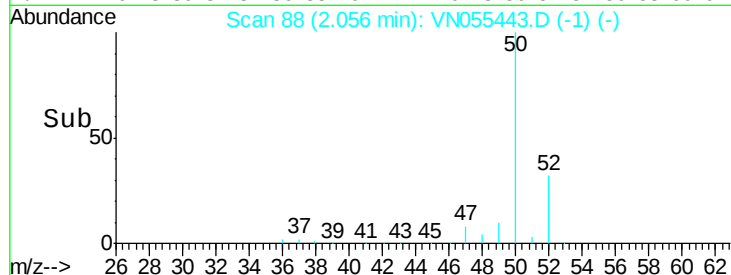
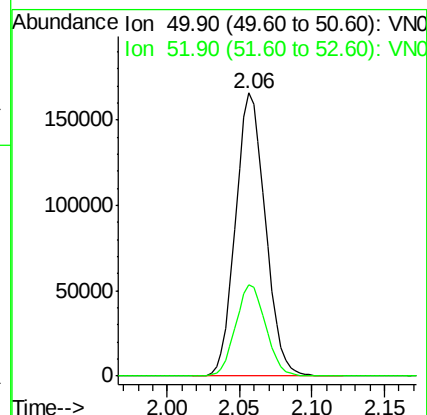
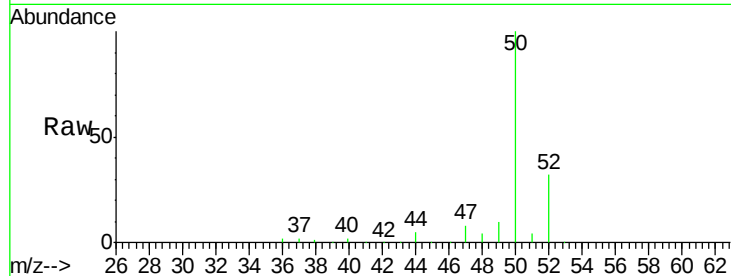
52 32.3 25.7 38.5

Manual Integrations

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#4

Vinyl Chloride

Concen: 45.278 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055443.D

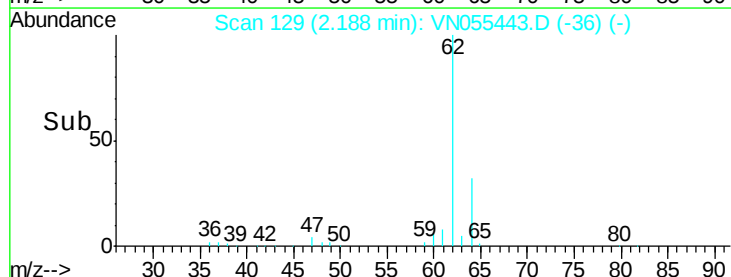
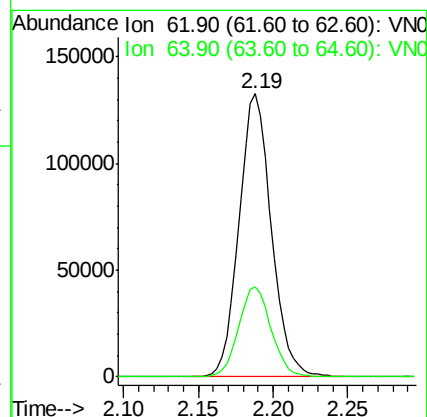
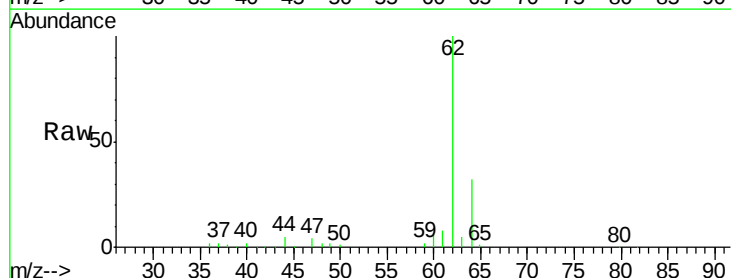
Acq: 7 May 2019 17:35

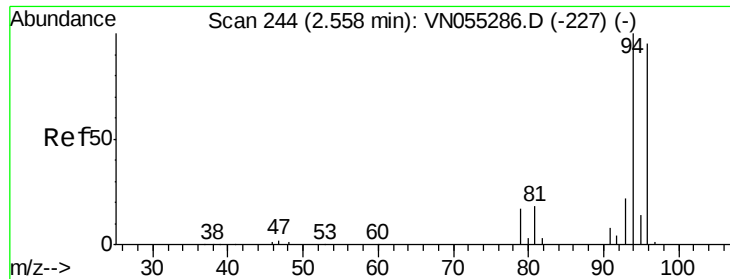
Tgt Ion: 62 Resp: 199836

Ion Ratio Lower Upper

62 100

64 31.9 25.5 38.3





#5

Bromomethane

Concen: 46.896 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 109634

Ion Ratio Lower Upper

94 100

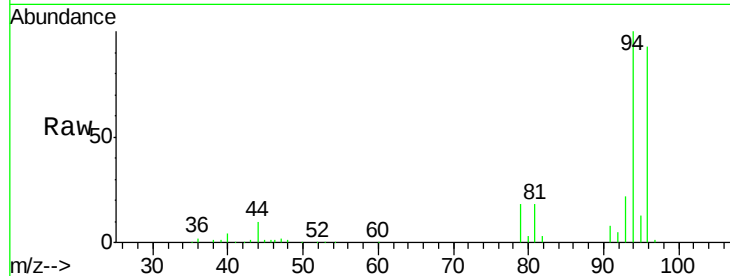
96 93.2 76.0 114.0

Manual Integrations

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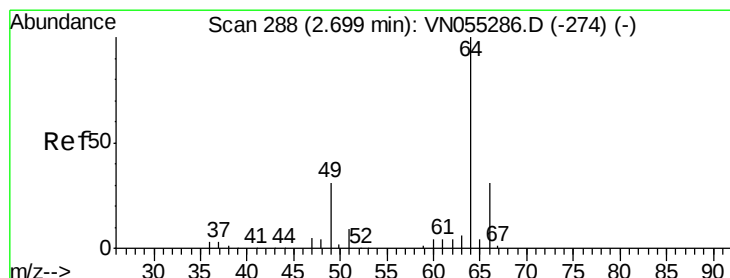
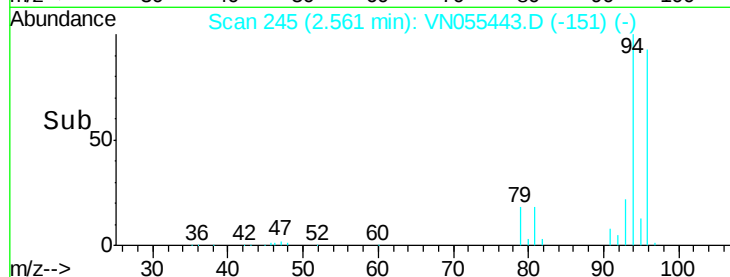
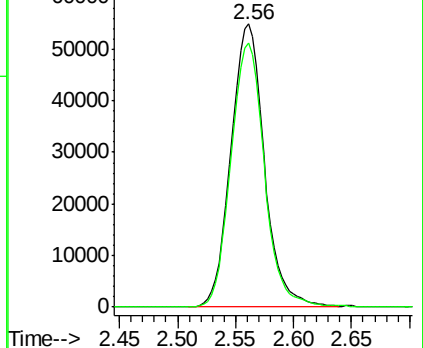
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 47.151 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN055443.D

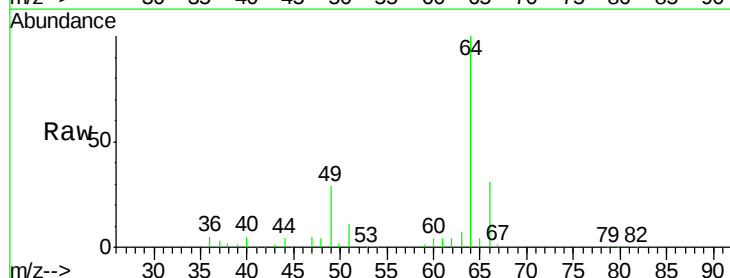
Acq: 7 May 2019 17:35

Tgt Ion: 64 Resp: 112735

Ion Ratio Lower Upper

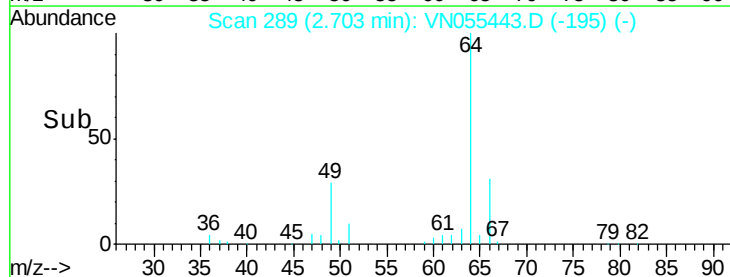
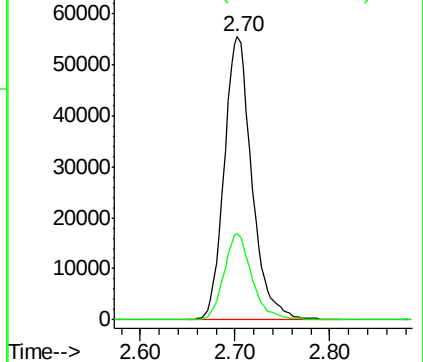
64 100

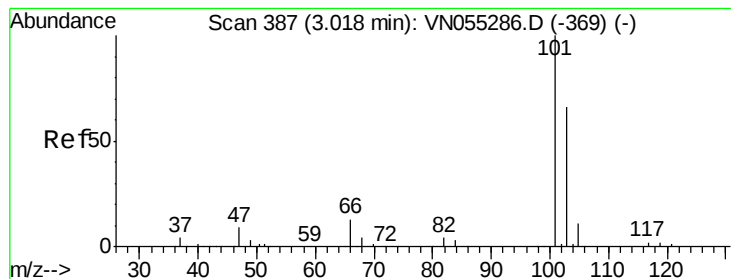
66 30.6 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

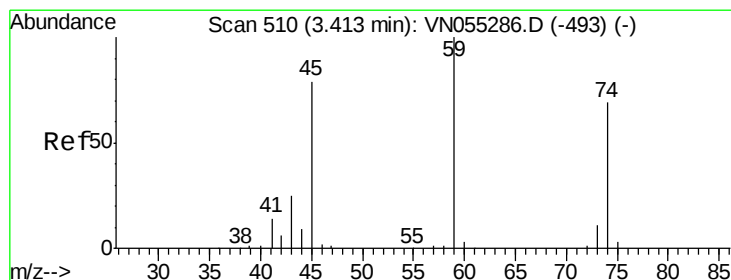
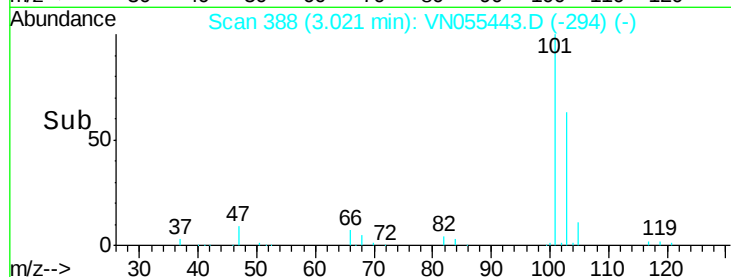
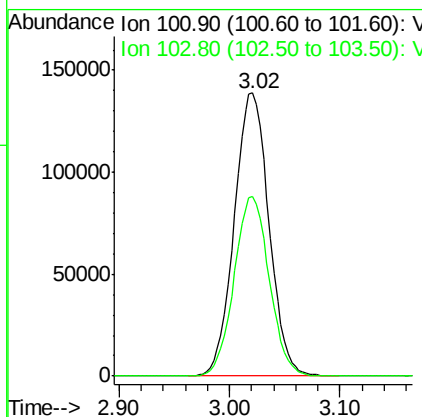
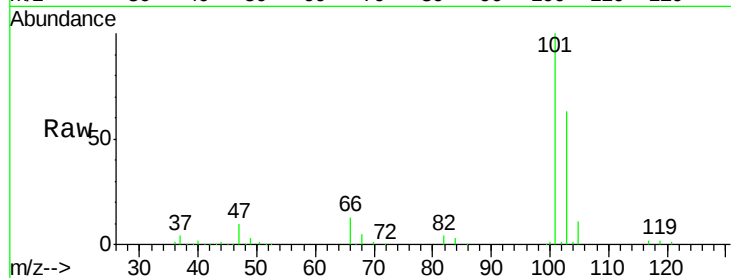
Trichlorofluoromethane
 Concen: 48.253 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.4	52.6	79.0

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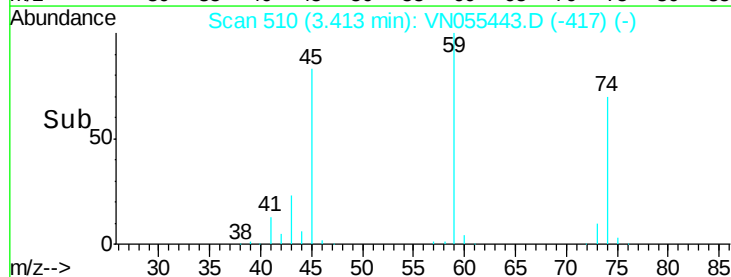
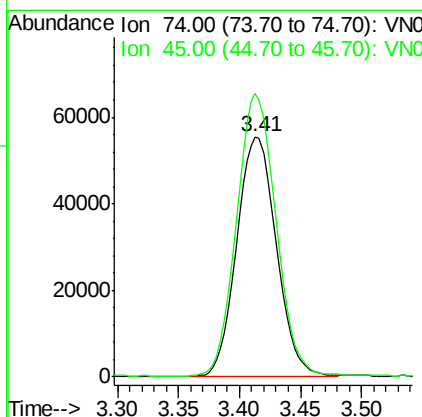
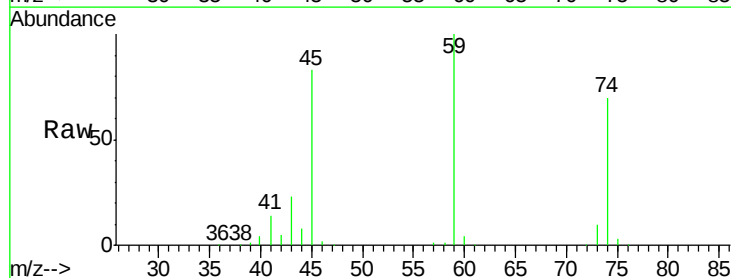
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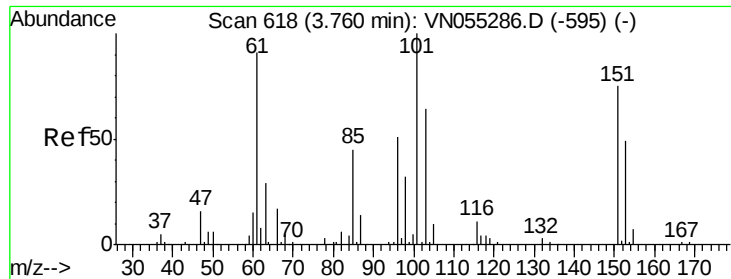


#8

Diethyl Ether
 Concen: 56.858 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Lower	Upper
74	100		
45	118.0	58.9	176.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.157 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

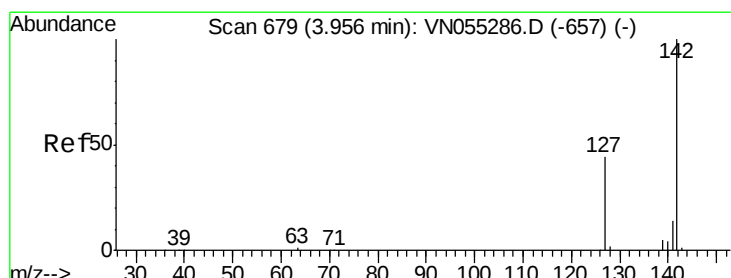
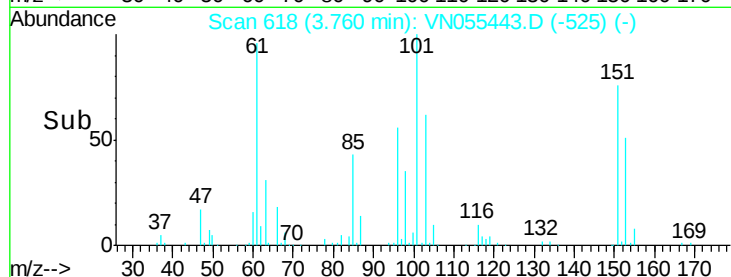
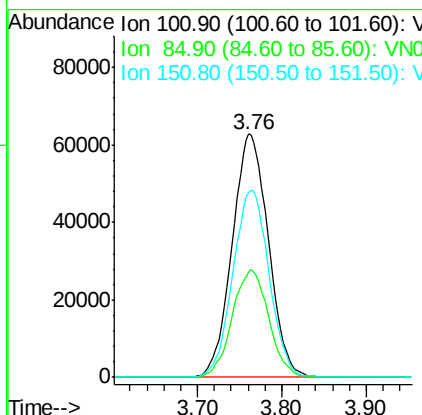
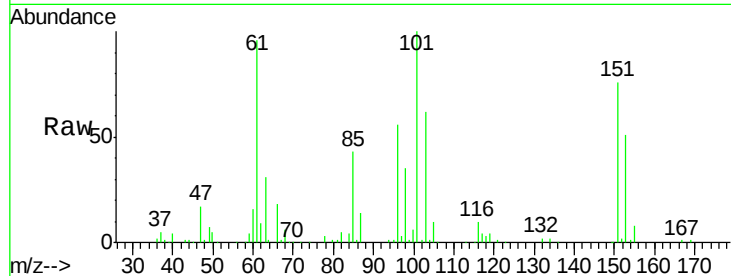
ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion:	101	Resp:	187446
Ion Ratio	Lower	Upper	
101	100		
85	44.4	35.7	53.5
151	77.2	63.3	94.9

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#10

Methyl Iodide

Concen: 47.087 ug/l

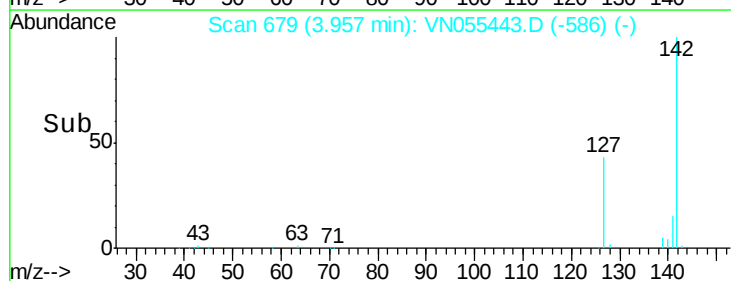
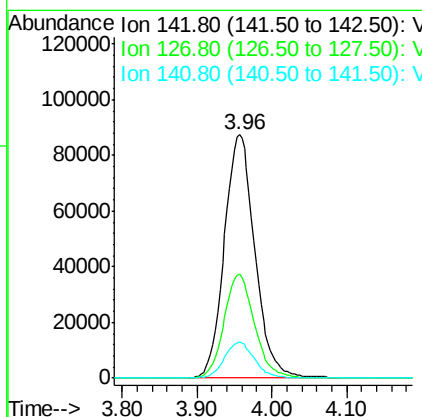
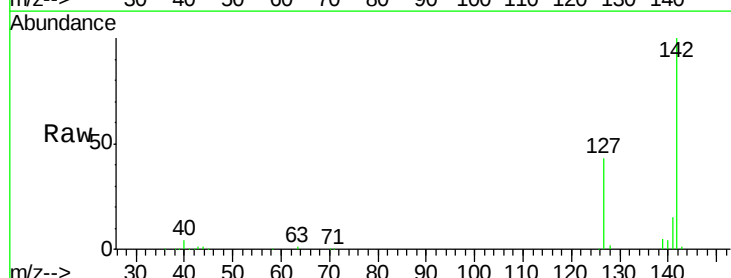
RT: 3.96 min Scan# 679

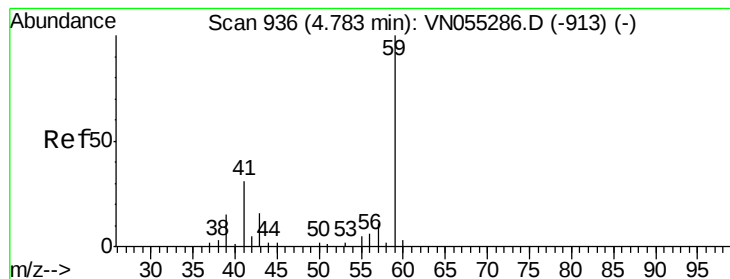
Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Tgt Ion:	142	Resp:	247650
Ion Ratio	Lower	Upper	
142	100		
127	42.5	34.4	51.6
141	14.6	11.5	17.3





#11

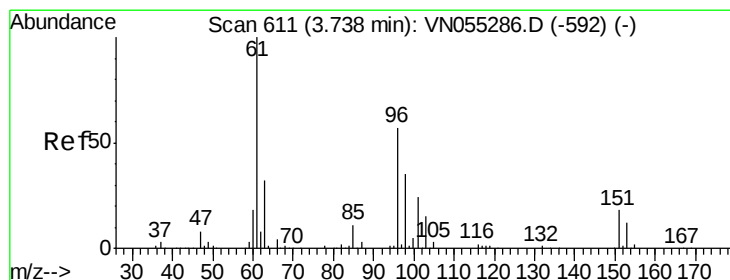
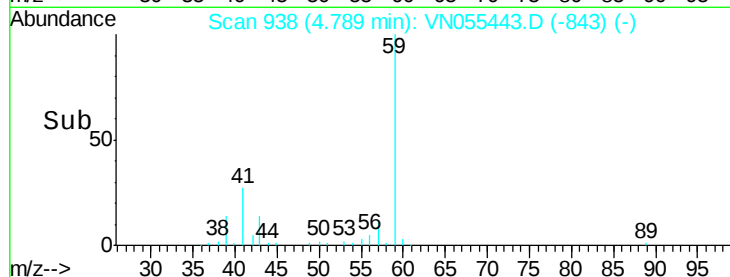
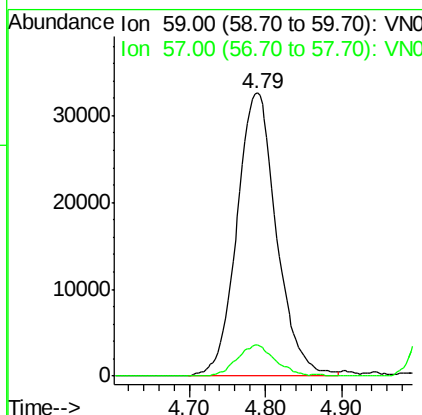
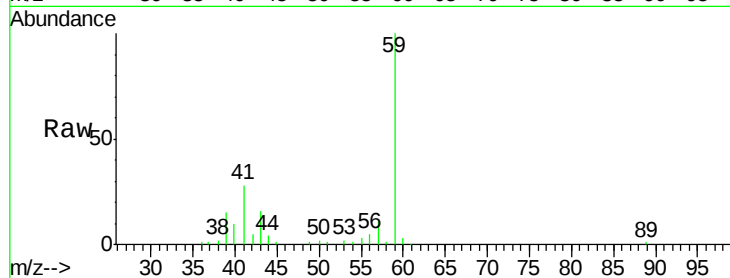
Tert butyl alcohol
Concen: 437.172 ug/l
RT: 4.79 min Scan# 938
Delta R.T. 0.01 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	59	100	118172		
57	57	10.5		8.2	12.2

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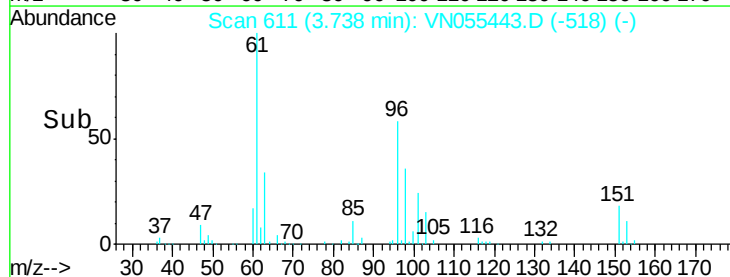
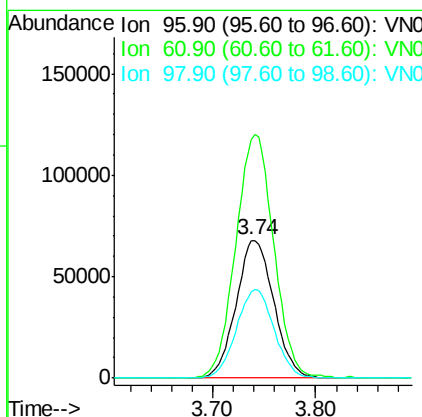
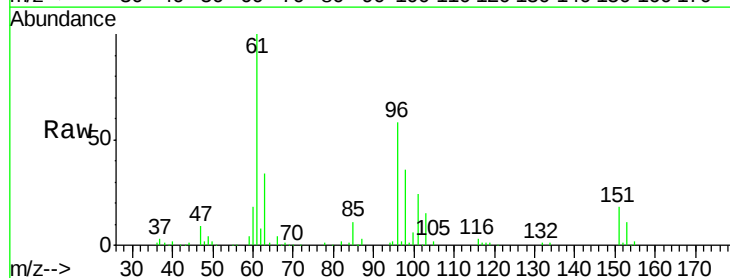
MMDadoda
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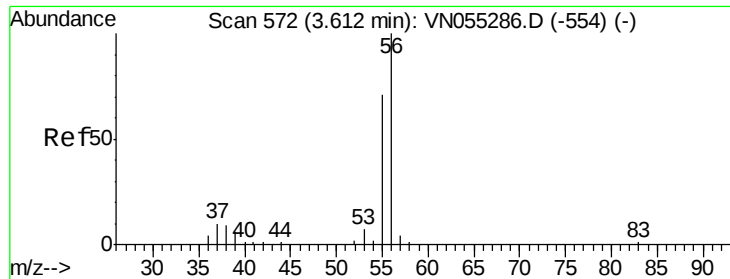


#12

1,1-Dichloroethene
Concen: 48.375 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	96	100	172461		
61	61	172.8		140.9	211.3
98	98	62.3		50.0	75.0





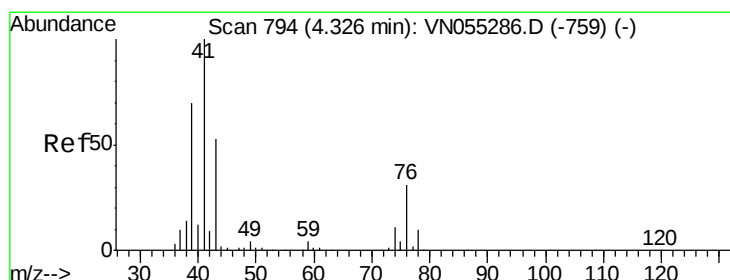
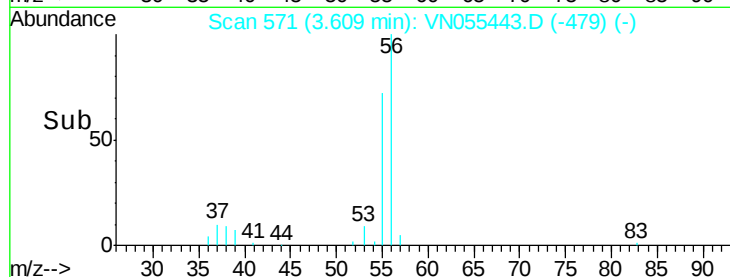
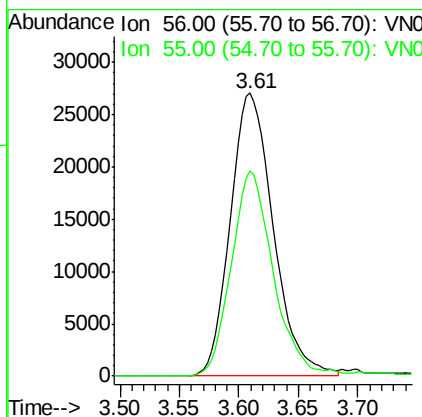
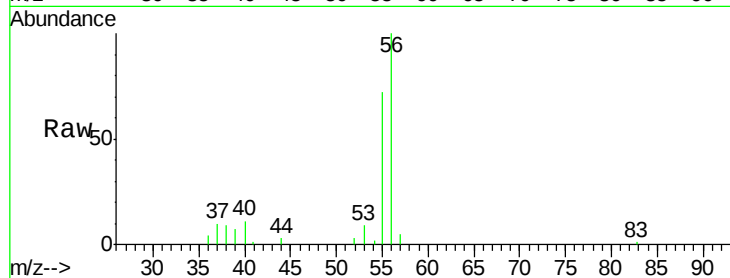
#13
Acrolein
Concen: 321.735 ug/l
RT: 3.61 min Scan# 571
Delta R.T. -0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	70.7	57.4	86.2	

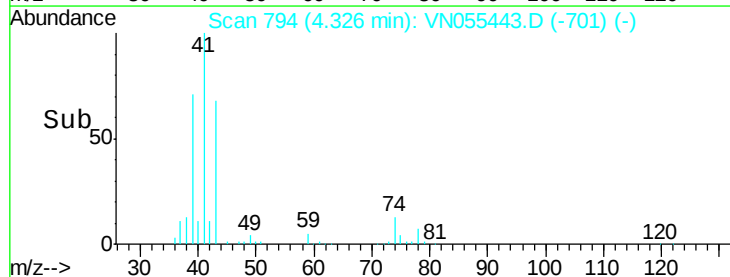
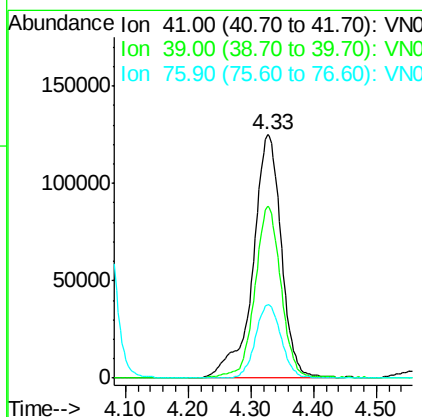
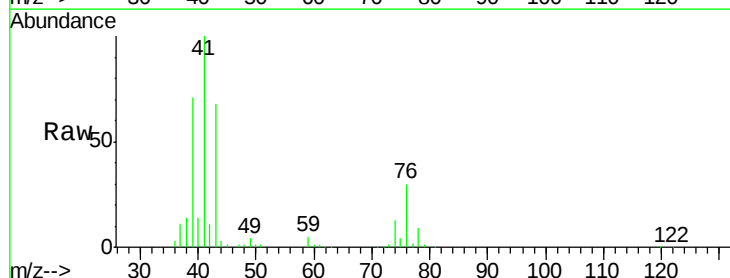
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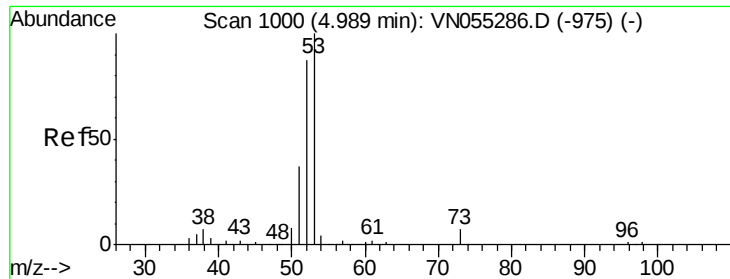
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#14
Allyl chloride
Concen: 53.599 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	64.7	53.0	79.6	
76	27.2	22.7	34.1	





#15

Acrylonitrile

Concen: 337.576 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

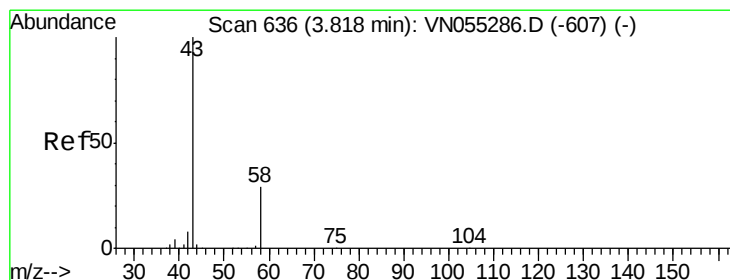
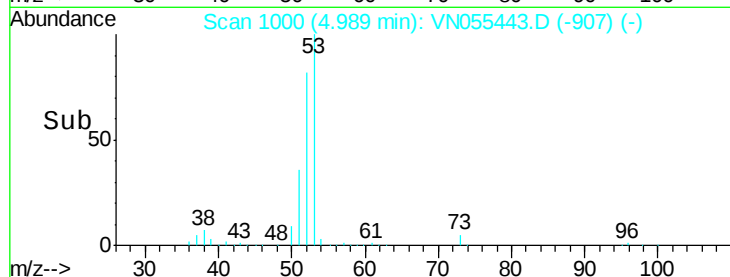
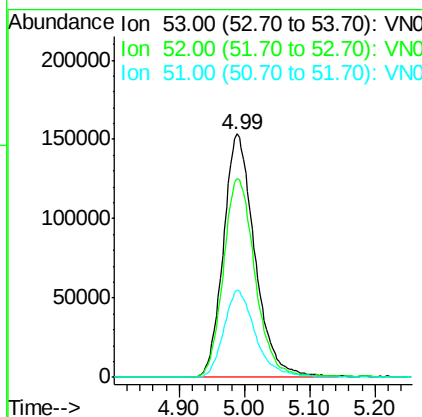
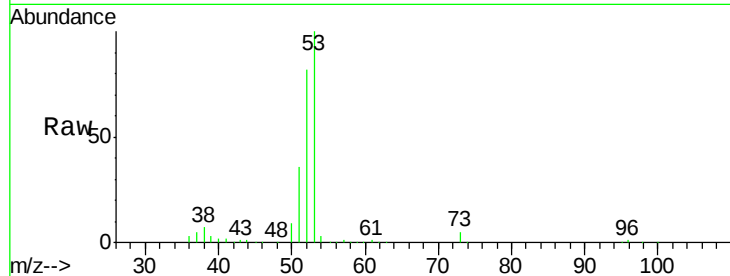
ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion:	53	Resp:	512908
Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.5	99.7
51	36.1	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 266.401 ug/l

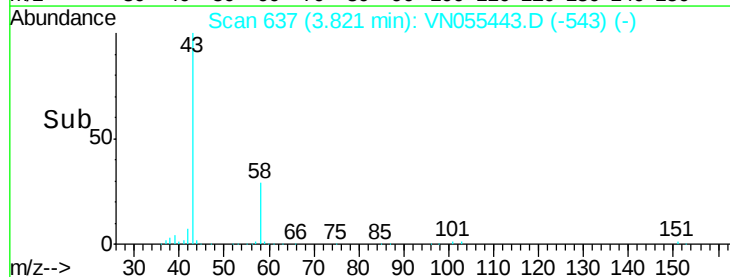
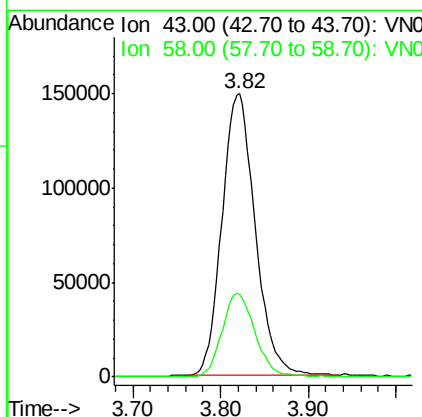
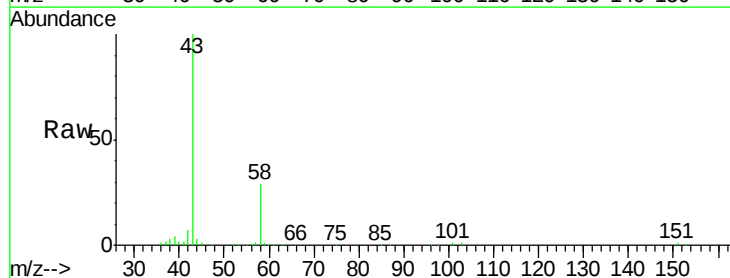
RT: 3.82 min Scan# 637

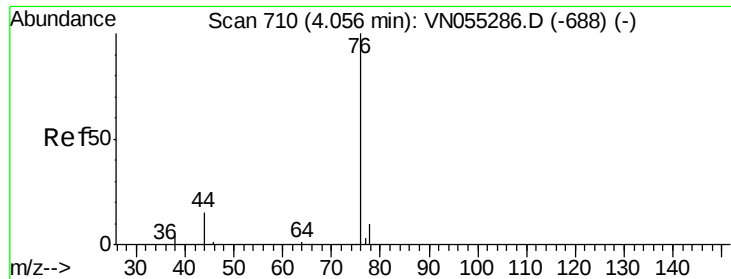
Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Tgt Ion:	43	Resp:	391906
Ion	Ratio	Lower	Upper
43	100		
58	29.1	23.6	35.4





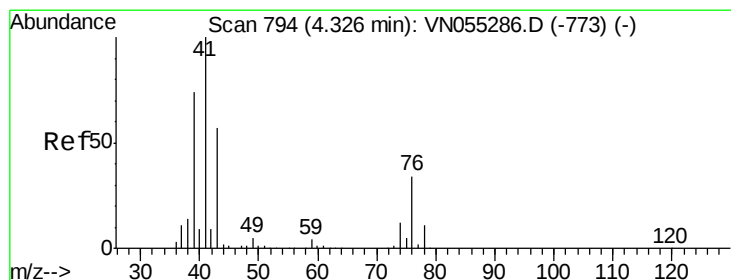
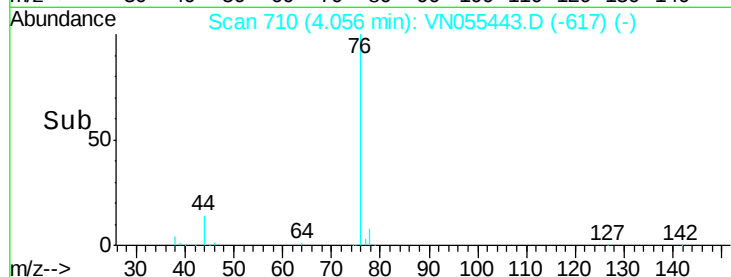
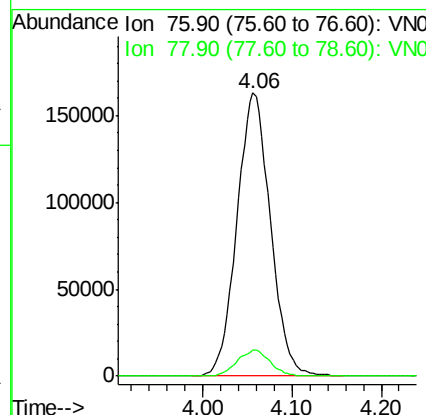
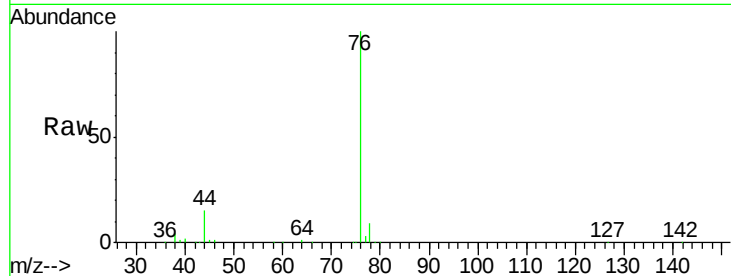
#17
Carbon Disulfide
Concen: 45.657 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.6	11.4

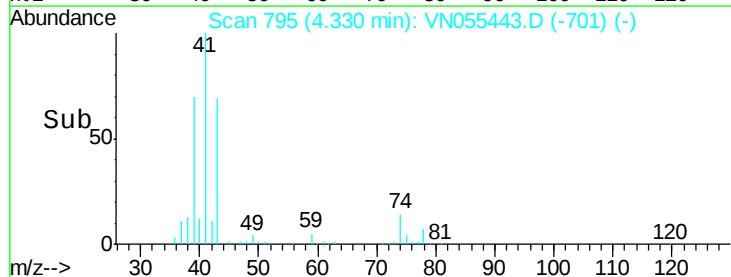
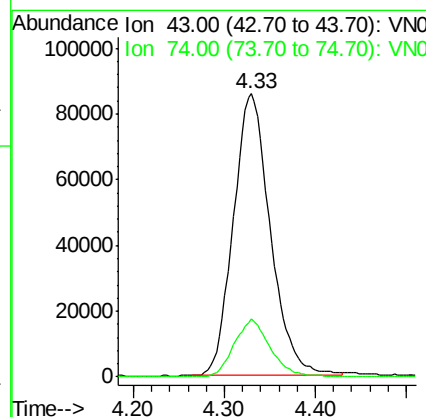
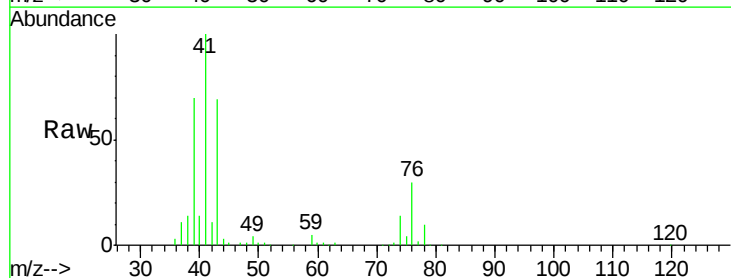
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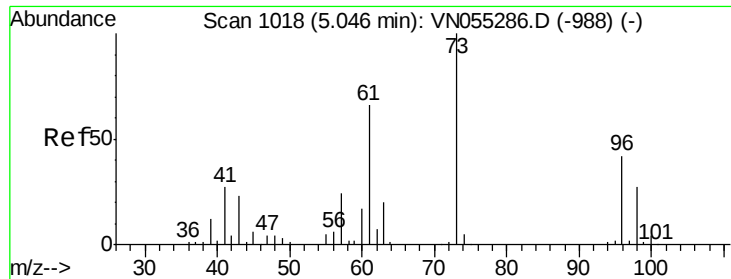
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#18
Methyl Acetate
Concen: 68.121 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.6	15.8	23.8





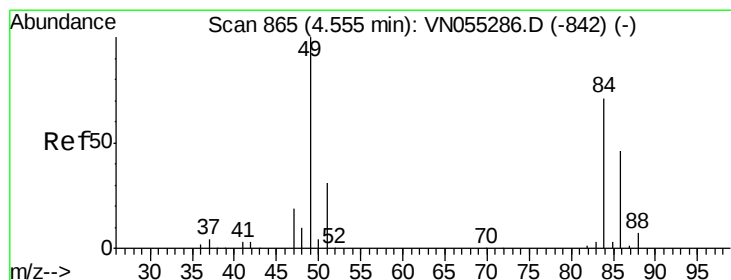
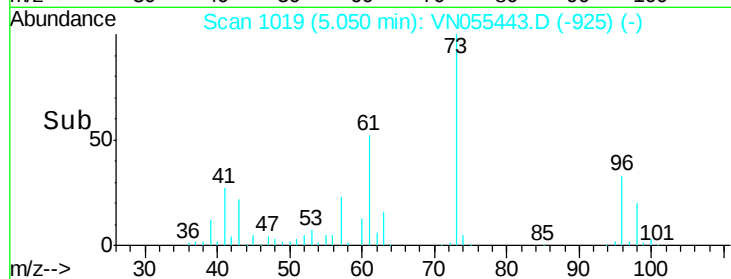
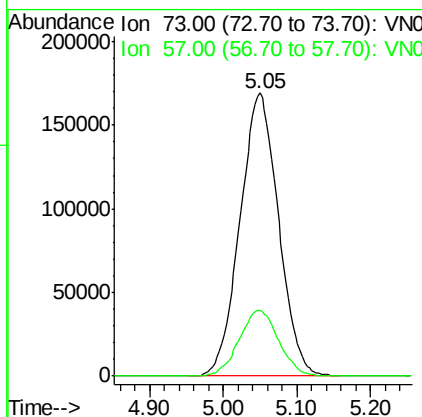
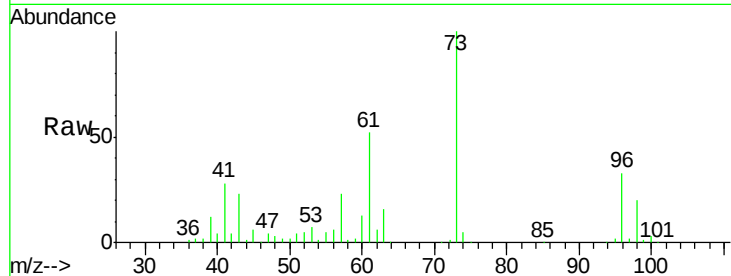
#19
Methvl tert-butvl Ether
Concen: 61.452 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion: 73 Resp: 615892
Ion Ratio Lower Upper
73 100
57 23.2 19.1 28.7

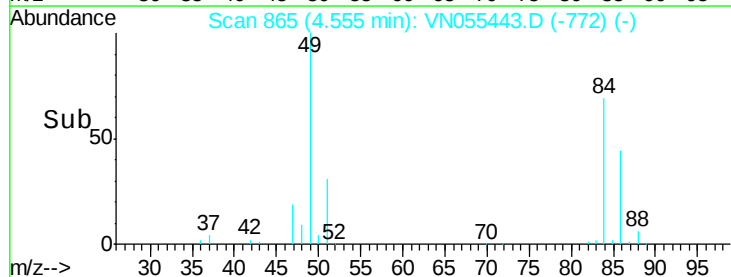
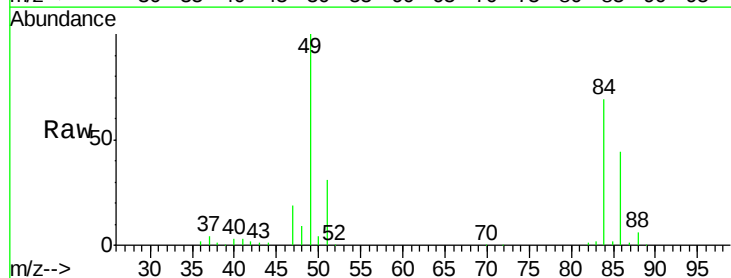
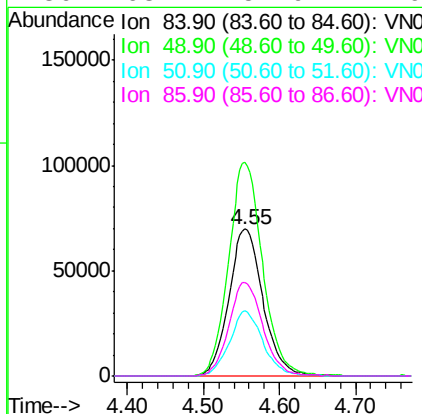
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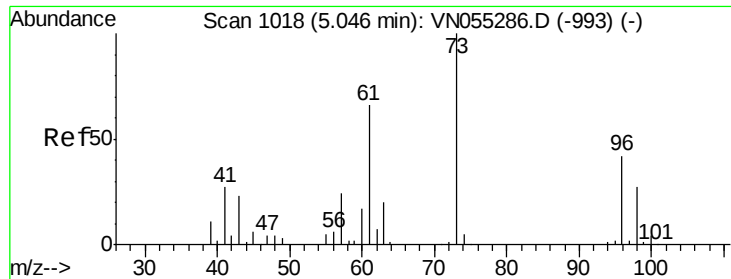
MMDadoda
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#20
Methylene Chloride
Concen: 48.440 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion: 84 Resp: 217509
Ion Ratio Lower Upper
84 100
49 145.1 112.4 168.6
51 44.3 34.6 51.8
86 63.7 51.9 77.9





#21

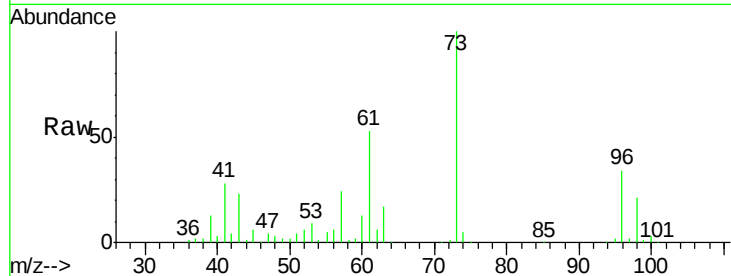
trans-1,2-Dichloroethene
Concen: 48.281 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion	Ratio	Lower	Upper
96	100		
61	157.1	126.2	189.4
98	61.3	52.2	78.2

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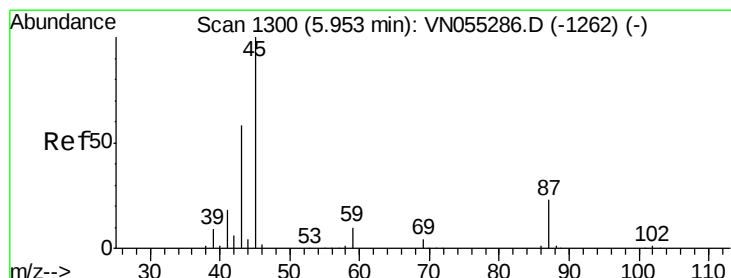
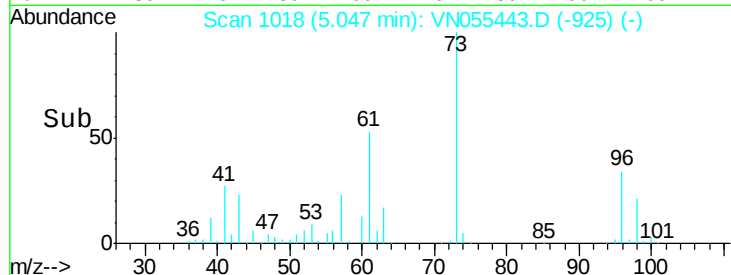
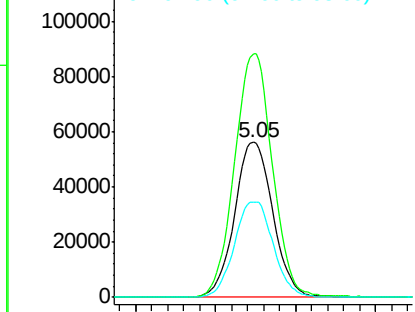


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether
Concen: 57.416 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.6	46.6	70.0
87	21.9	18.1	27.1
59	10.4	8.2	12.2

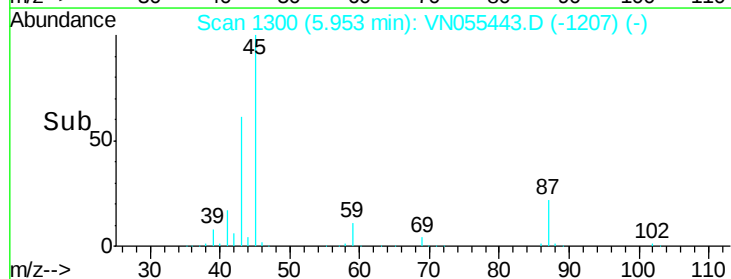
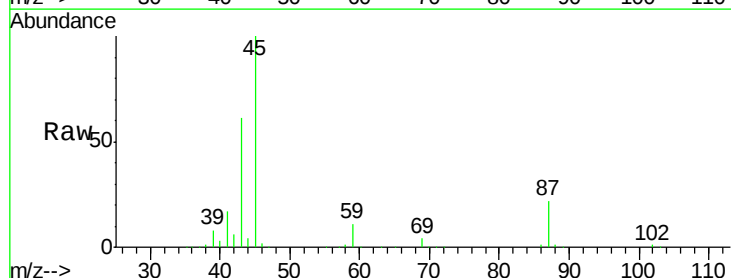
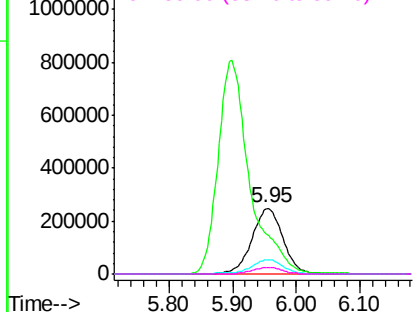
Abundance

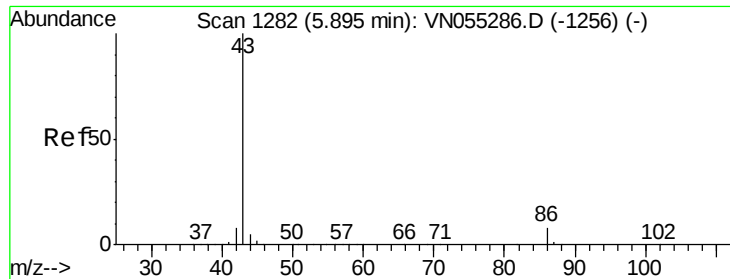
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#23

Vinyl Acetate

Concen: 290.861 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion: 43 Resp: 2796636

Ion Ratio Lower Upper

43 100

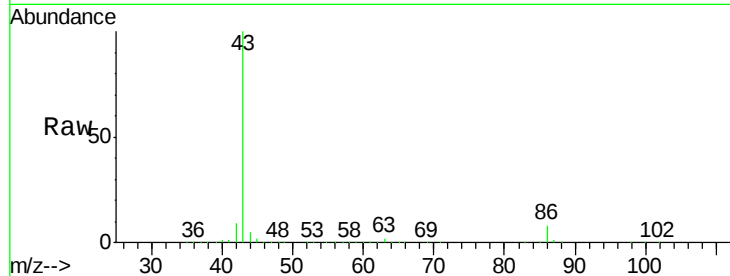
86 8.2 6.6 10.0

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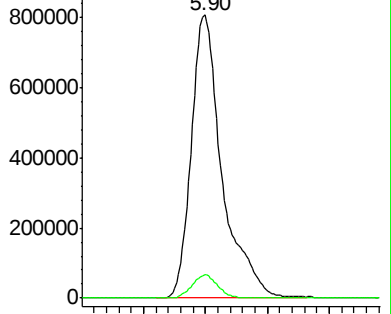
MMDadoda

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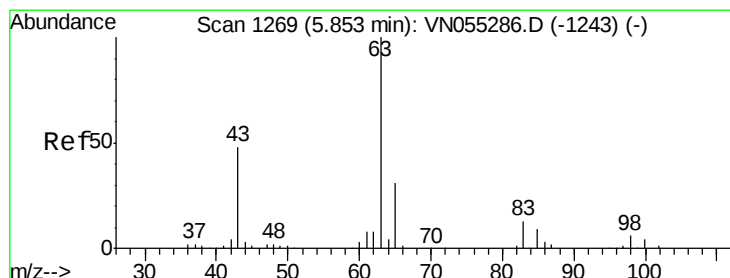
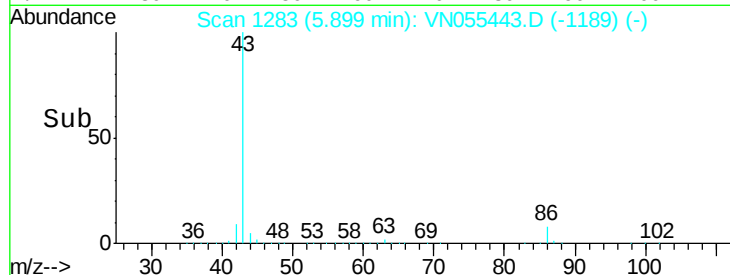


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time-->



#24

1,1-Dichloroethane

Concen: 52.804 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

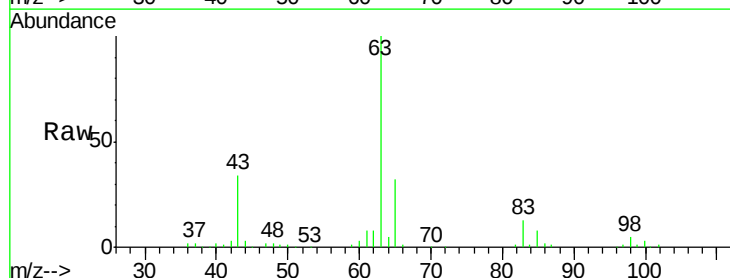
Tgt Ion: 63 Resp: 412751

Ion Ratio Lower Upper

63 100

98 5.1 3.0 9.0

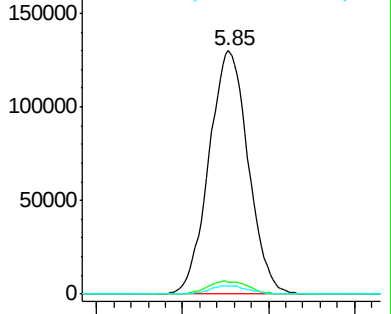
100 3.3 1.8 5.4



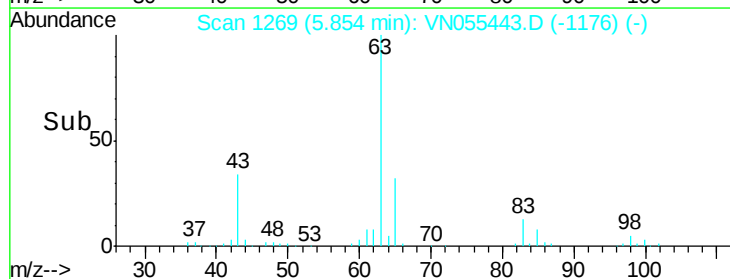
Abundance Ion 62.90 (62.60 to 63.60): VN0

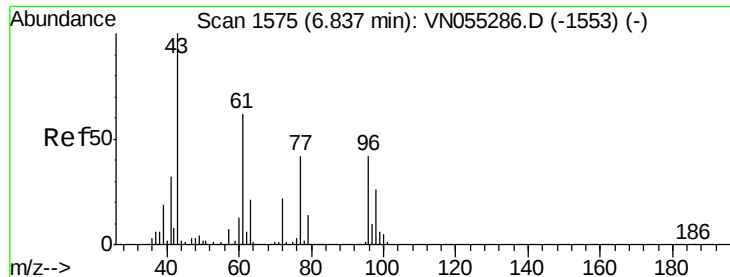
Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time-->





#25

2-Butanone

Concen: 345.995 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion: 43 Resp: 650942

Ion Ratio Lower Upper

43 100

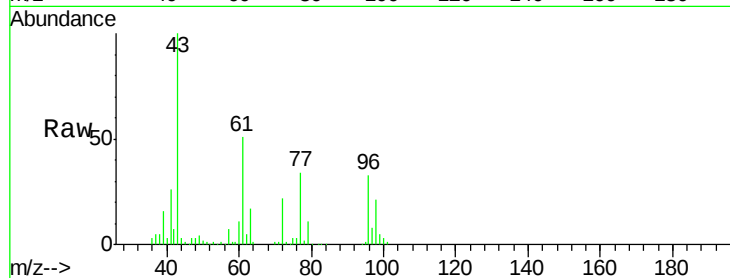
72 21.8 18.0 27.0

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.84

250000

200000

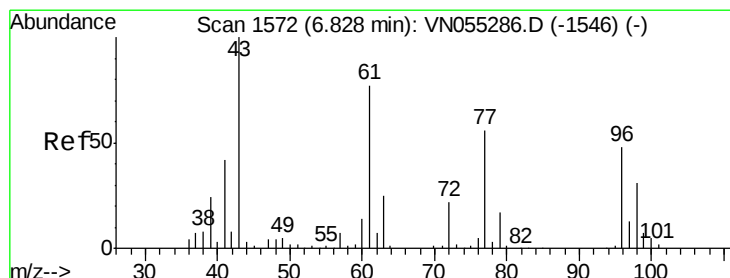
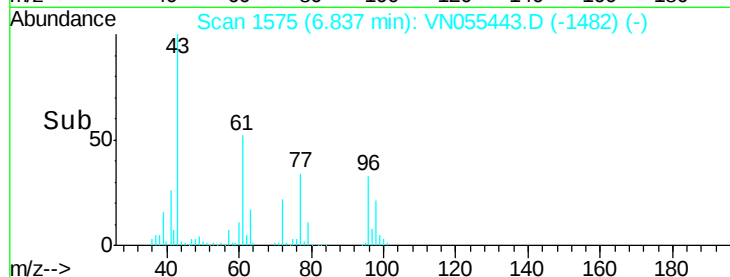
150000

100000

50000

0

Time-->



#26

2,2-Dichloropropane

Concen: 49.917 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055443.D

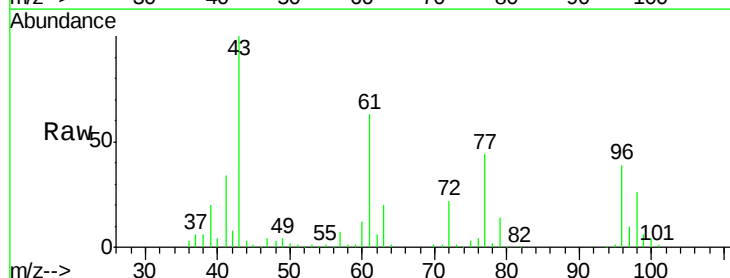
Acq: 7 May 2019 17:35

Tgt Ion: 77 Resp: 269433

Ion Ratio Lower Upper

77 100

97 23.0 11.4 34.2



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.83

100000

80000

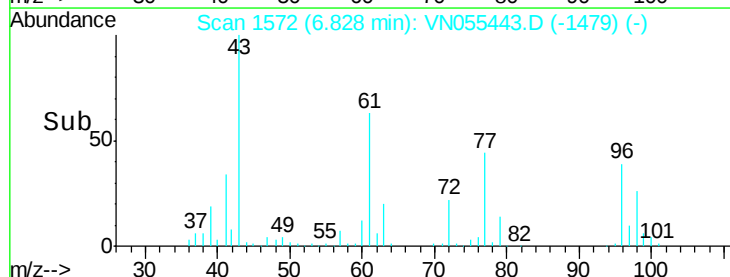
60000

40000

20000

0

Time-->





#27

cis-1,2-Dichloroethene

Concen: 53.196 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

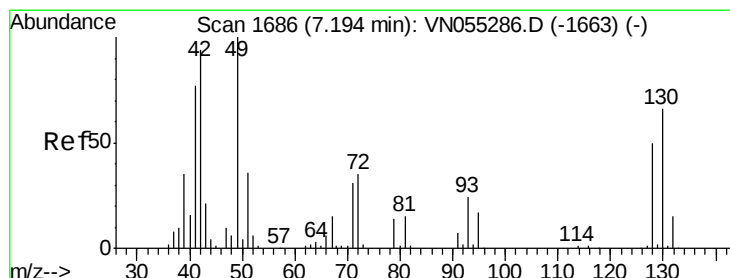
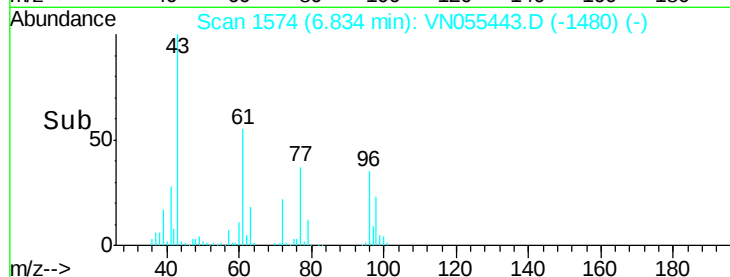
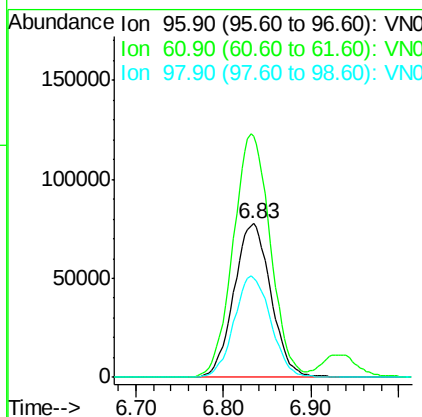
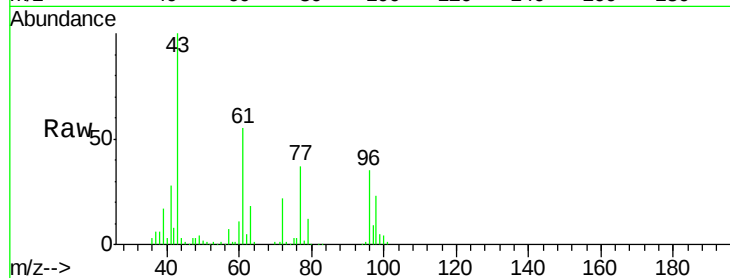
ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion:	96	Resp:	228403
Ion	Ratio	Lower	Upper
96	100		
61	158.7	0.0	316.2
98	65.1	0.0	126.6

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#28

Bromochloromethane

Concen: 50.945 ug/l

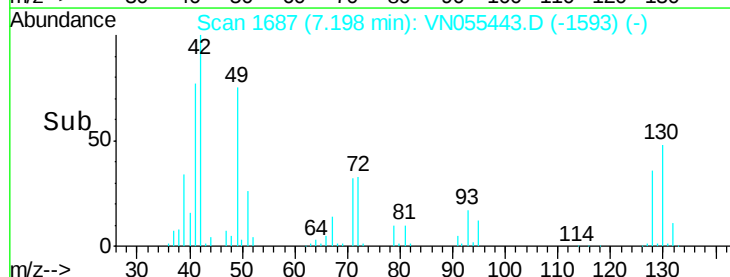
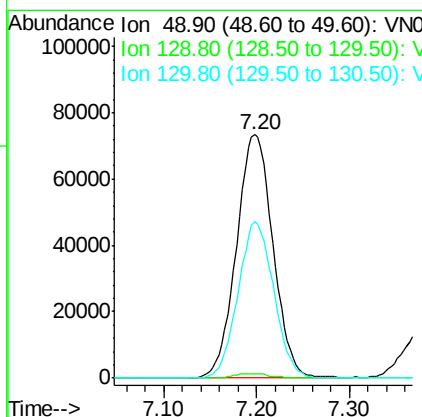
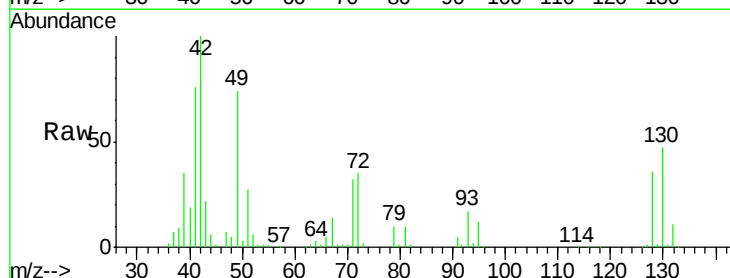
RT: 7.20 min Scan# 1687

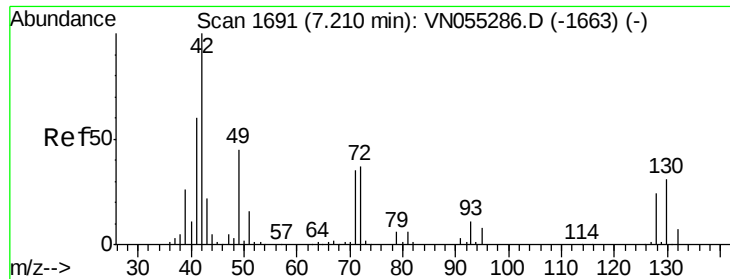
Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Tgt Ion:	49	Resp:	200726
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	2.4
130	62.7	52.0	78.0





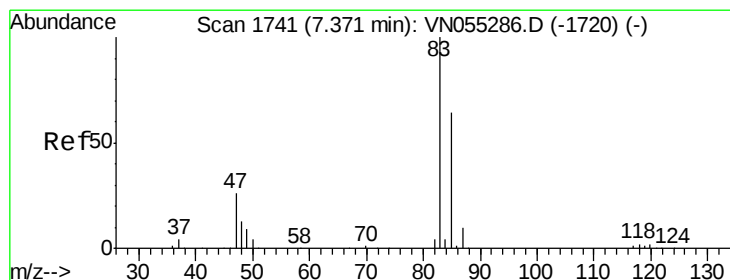
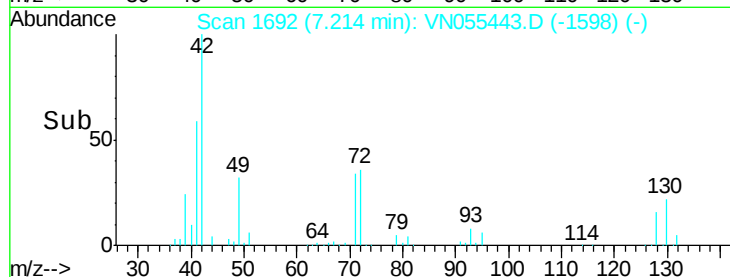
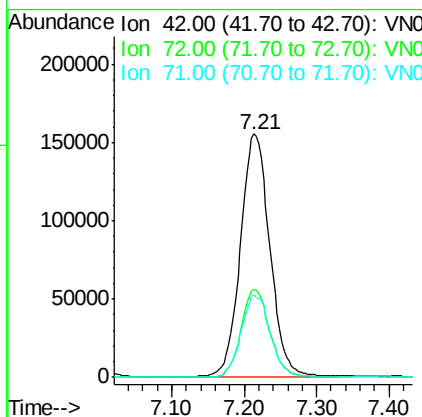
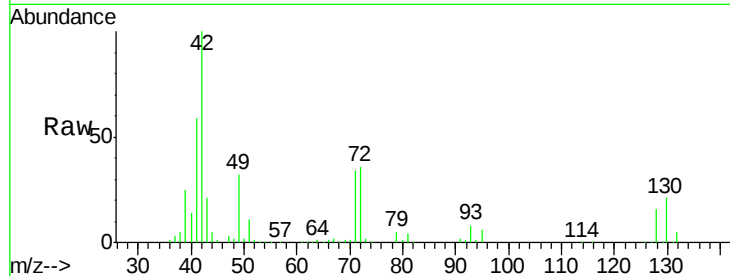
#29
Tetrahydrofuran
Concen: 363.775 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.5	29.0	43.6
71	33.6	27.1	40.7

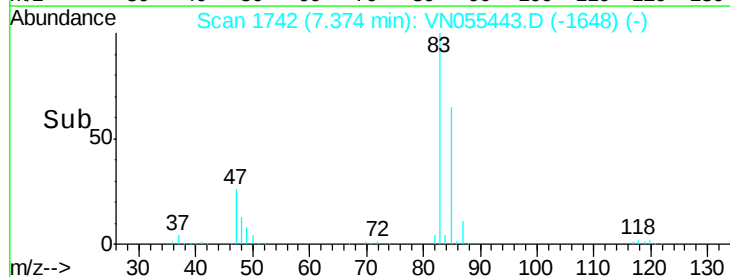
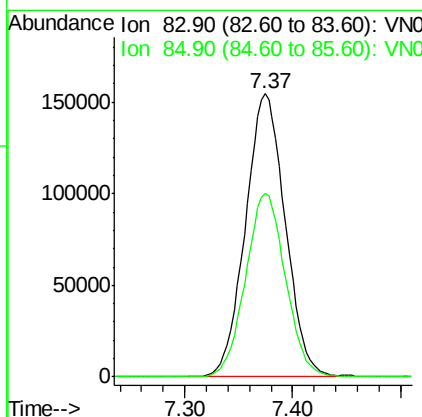
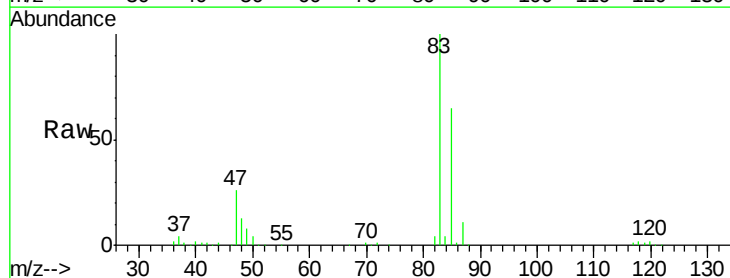
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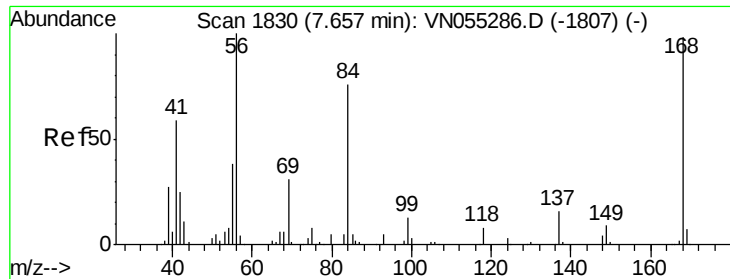
MMDadoda
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#30
Chloroform
Concen: 53.443 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.4	77.2





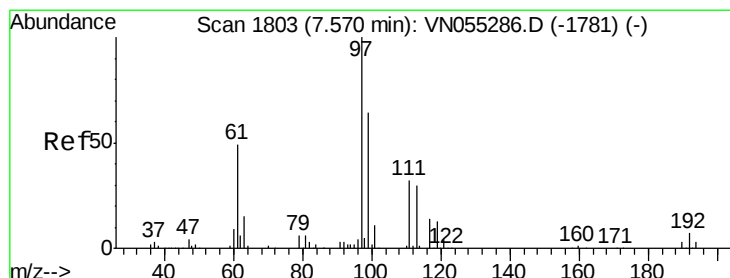
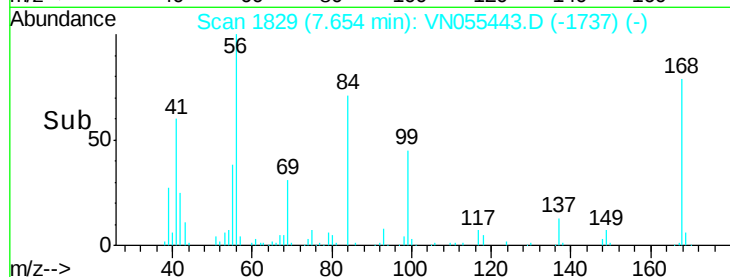
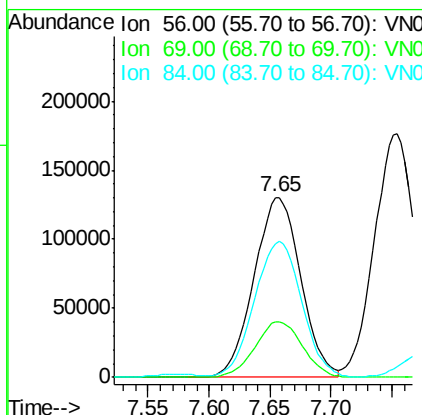
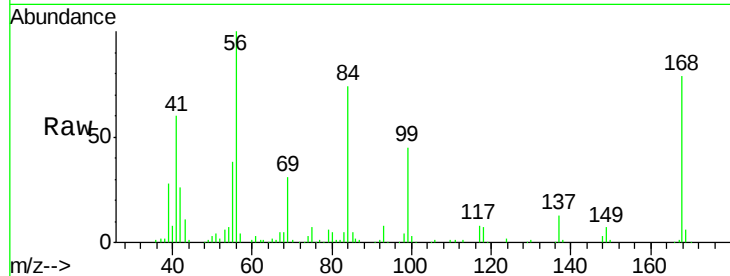
#31
Cyclohexane
Concen: 46.724 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.9	25.2	37.8
84	73.1	61.1	91.7

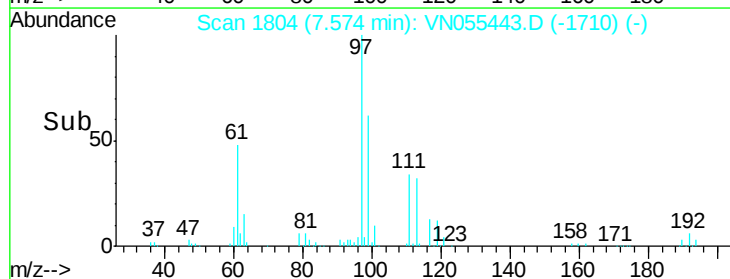
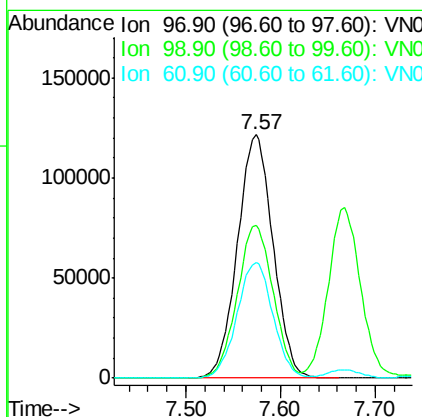
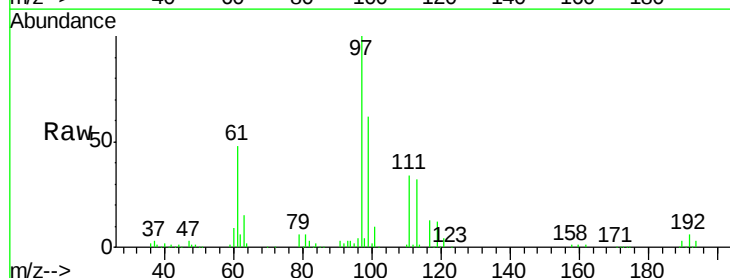
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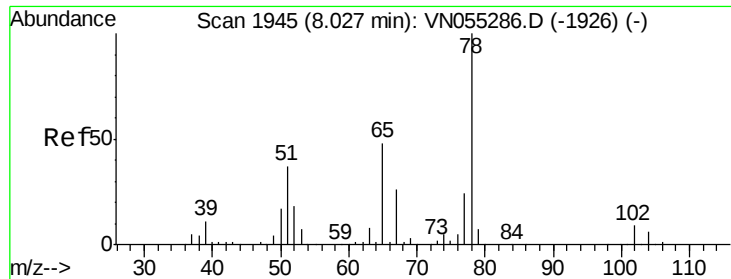
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#32
1,1,1-Trichloroethane
Concen: 52.900 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.8	77.8
61	48.0	39.0	58.6





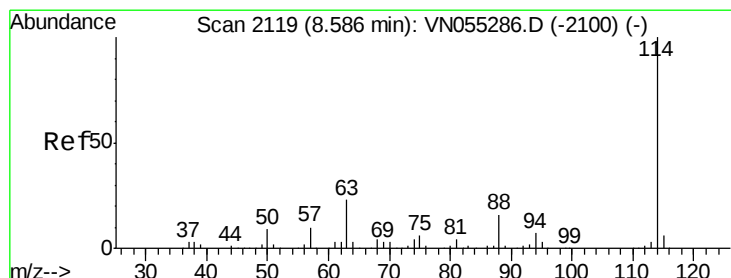
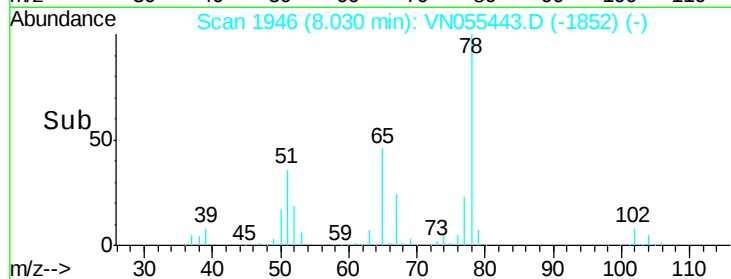
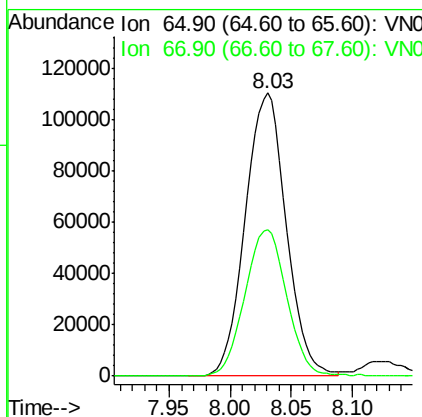
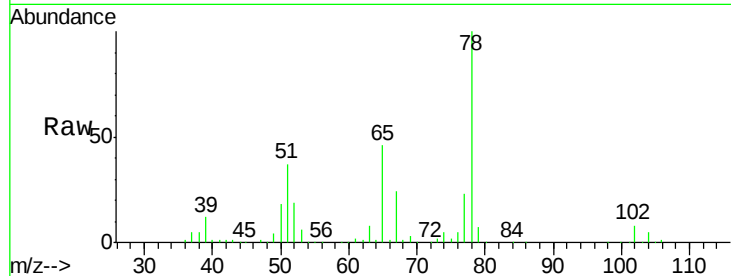
#33
 1,2-Dichloroethane-d4
 Concen: 54.243 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-PZ-W4-5MSD

Tot Ion	Ratio	Resp	Lower	Upper
65	100	256101		
67	52.9	0.0	106.8	

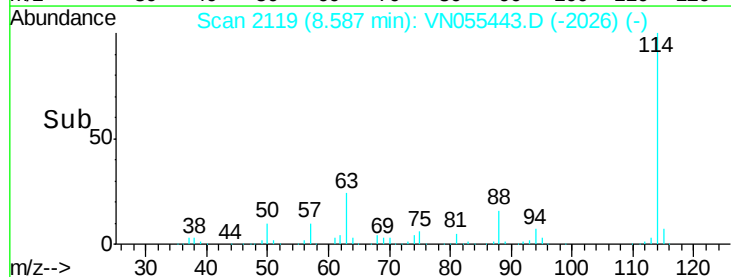
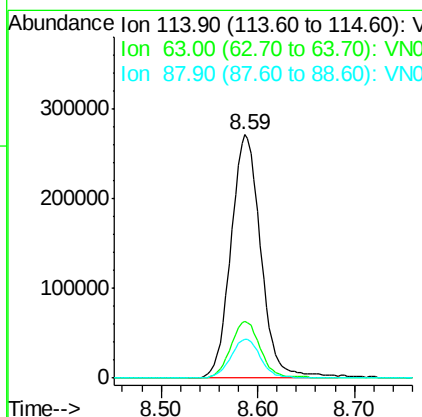
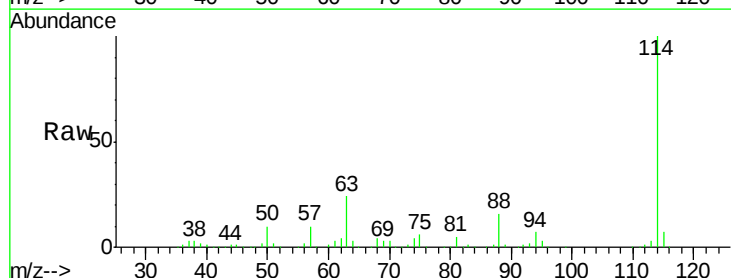
Manual Integrations
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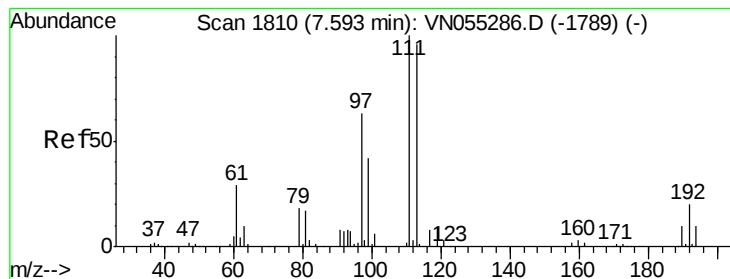
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 5/8/2019 10:22:27 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	583690		
63	23.6	0.0	45.2	
88	16.1	0.0	31.6	





#35

Dibromofluoromethane

Concen: 51.122 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

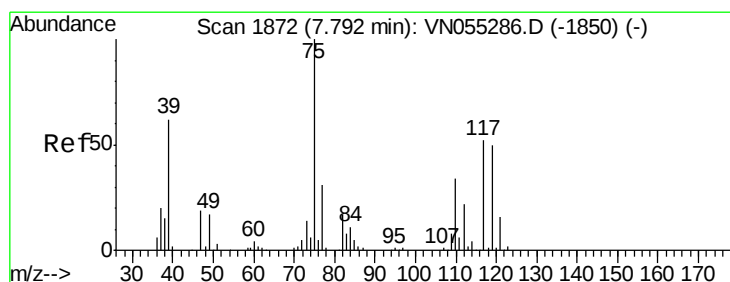
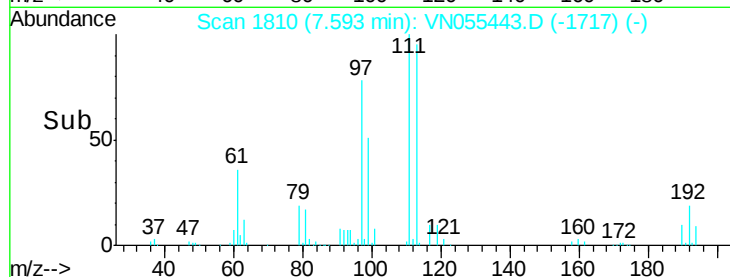
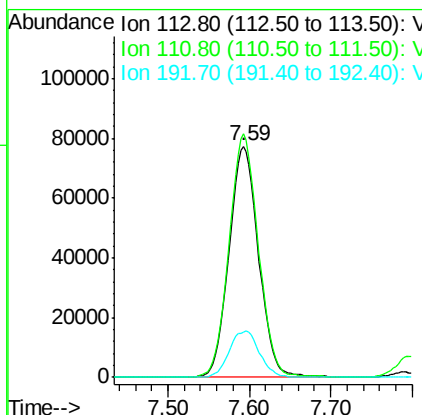
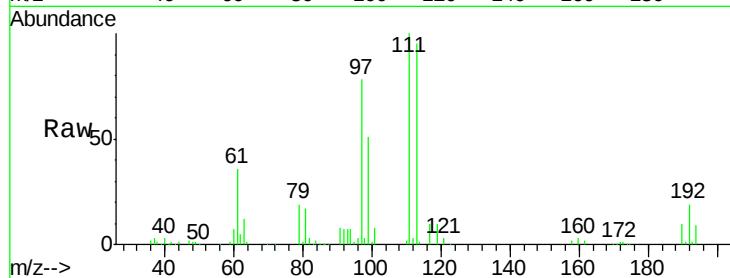
ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion:	113	Resp:	195857
Ion Ratio	Lower	Upper	
113	100		
111	104.6	82.3	123.5
192	20.6	17.0	25.6

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#36

1,1-Dichloropropene

Concen: 48.046 ug/l

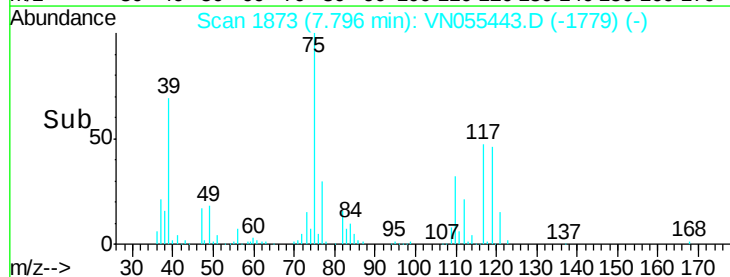
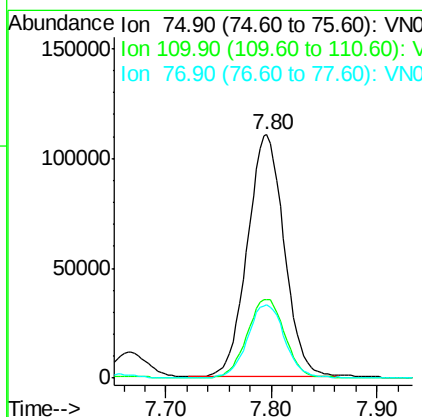
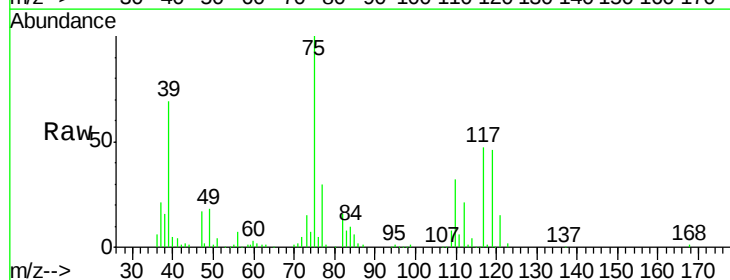
RT: 7.80 min Scan# 1873

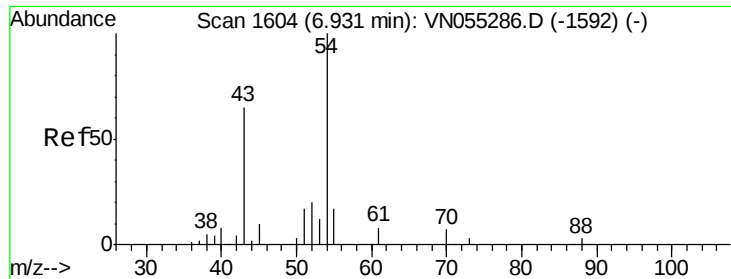
Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Tgt Ion:	75	Resp:	268620
Ion Ratio	Lower	Upper	
75	100		
110	33.6	16.8	50.4
77	30.9	25.0	37.6





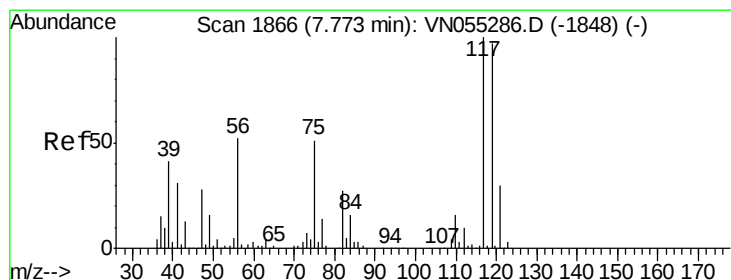
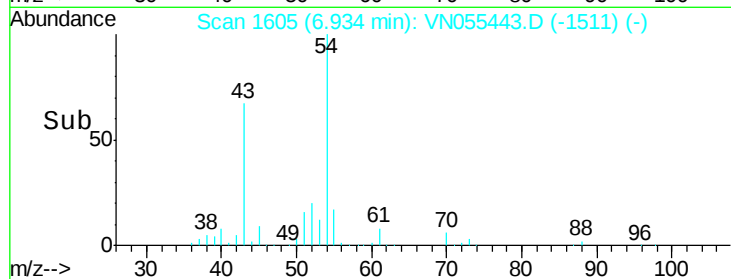
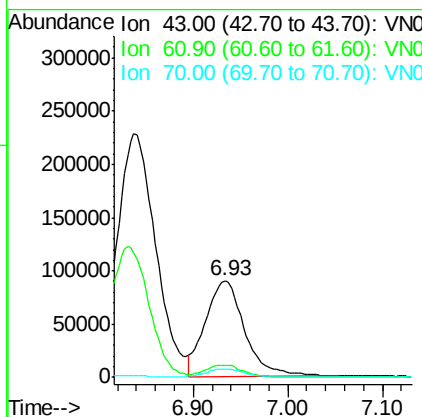
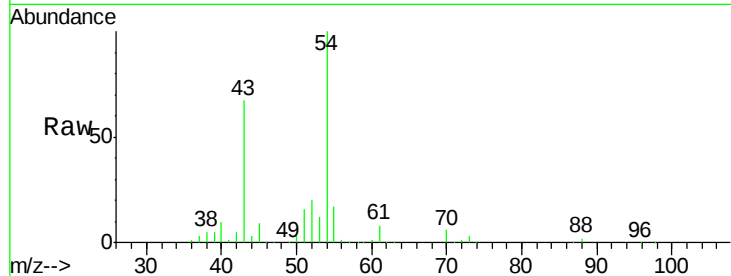
#37
Ethyl Acetate
Concen: 60.056 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampled :
EP1-PZ-W4-5MSD

Tot Ion	43	61	70
Resp	257333		
Ratio	100	12.4	8.9
Lower		10.4	6.6
Upper		15.6	10.0

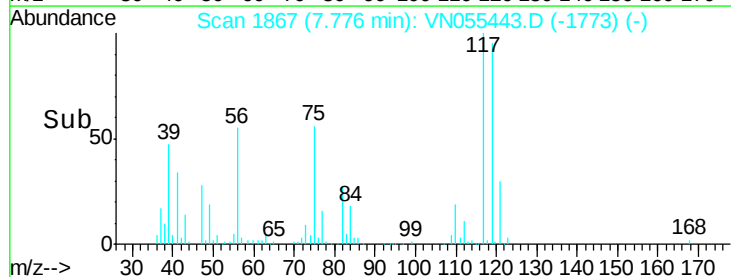
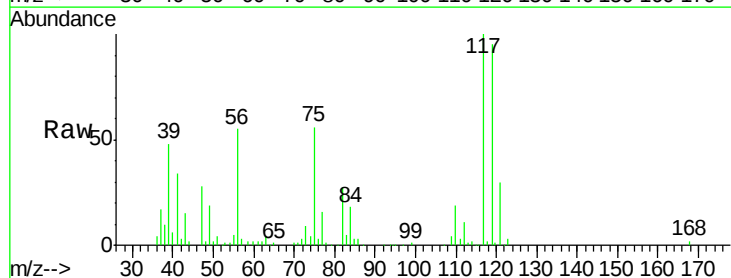
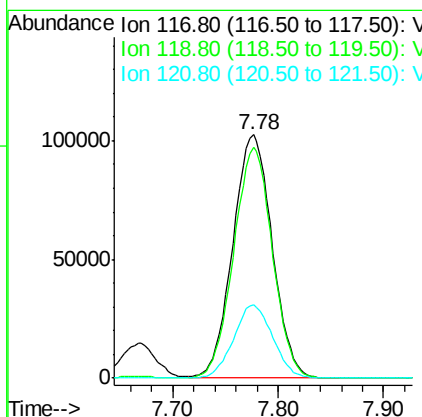
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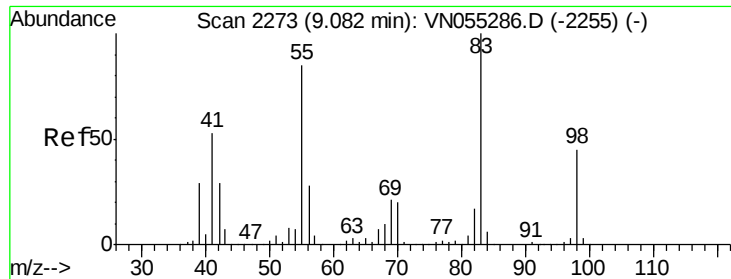
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#38
Carbon Tetrachloride
Concen: 49.276 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	117	119	121
Resp	265751		
Ratio	100	94.7	30.0
Lower		77.0	23.8
Upper		115.6	35.8





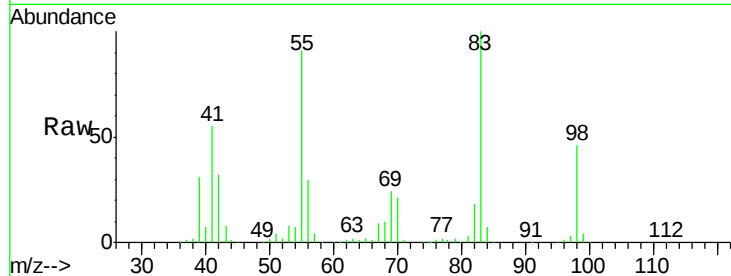
#39
Methvlcvclohexane
Concen: 50.183 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

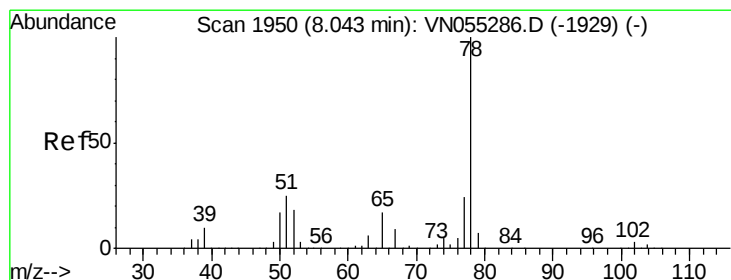
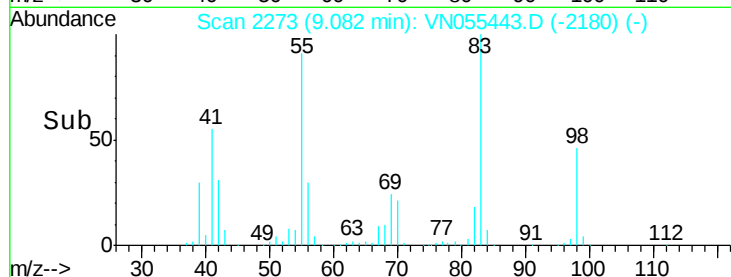
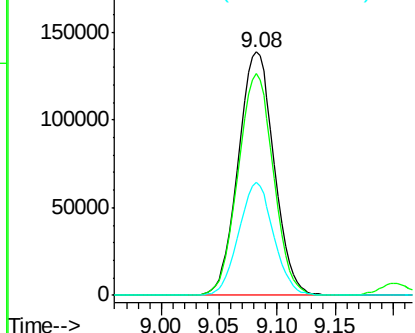
Tot Ion	83	Resp	298300
Ion Ratio	Lower	Upper	
83	100		
55	90.9	67.8	101.6
98	46.2	36.2	54.4

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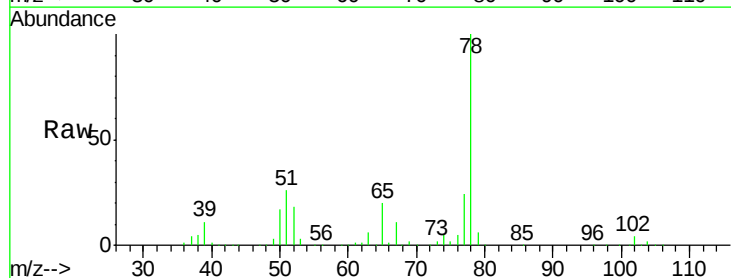


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

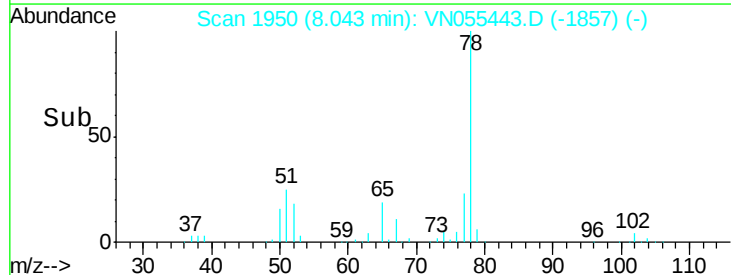
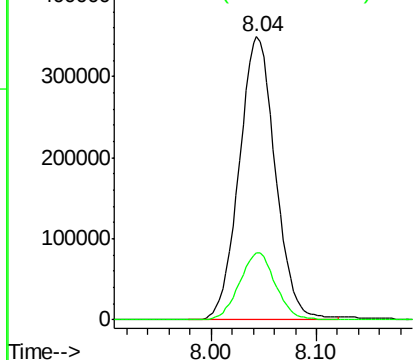


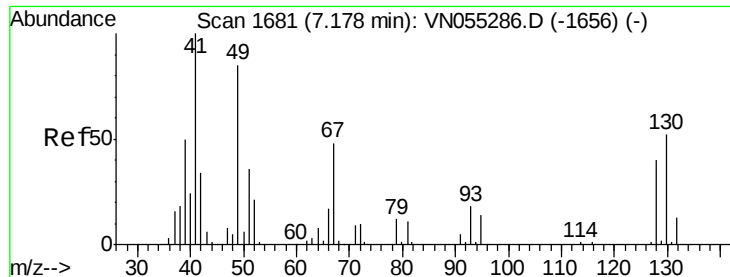
#40
Benzene
Concen: 50.557 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	78	Resp	833251
Ion Ratio	Lower	Upper	
78	100		
77	23.6	19.0	28.6



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





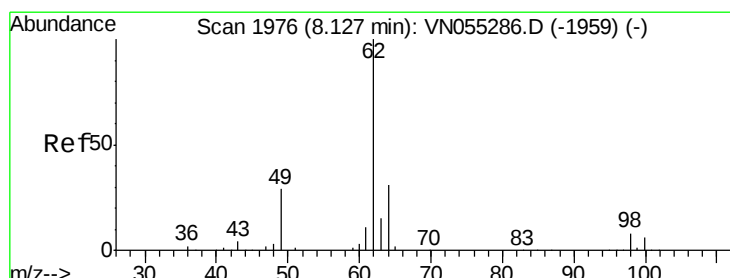
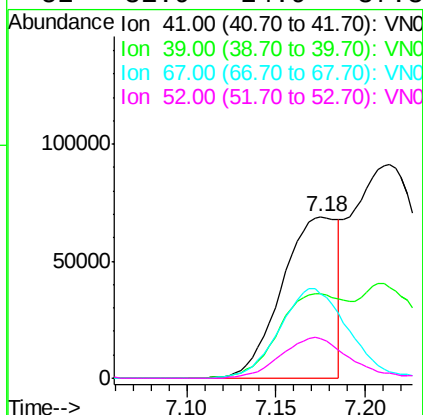
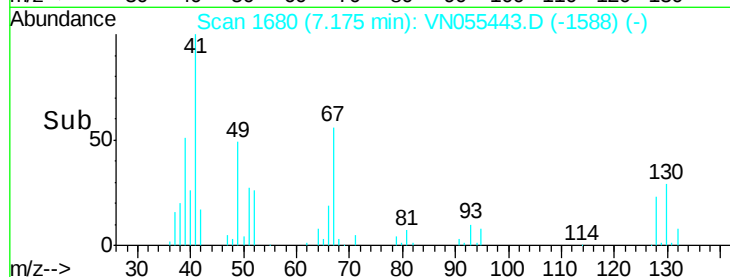
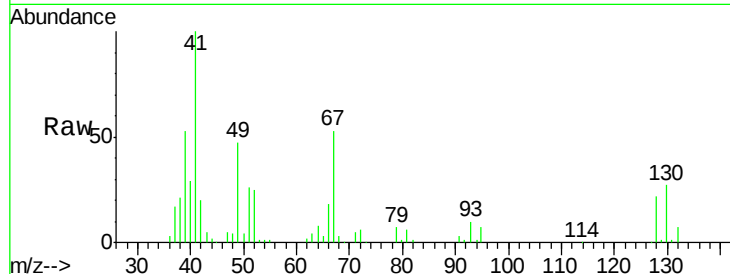
#41
Methacrylonitrile
Concen: 63.737 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampled :
EP1-PZ-W4-5MSD

Tot Ion	41	Resp	148287
Ion Ratio	Lower	Upper	
41	100		
39	63.5	48.5	72.7
67	69.5	54.9	82.3
52	31.9	24.9	37.3

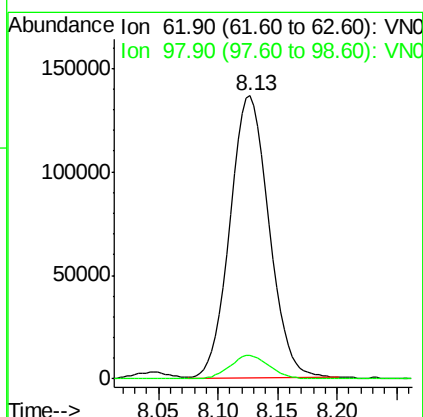
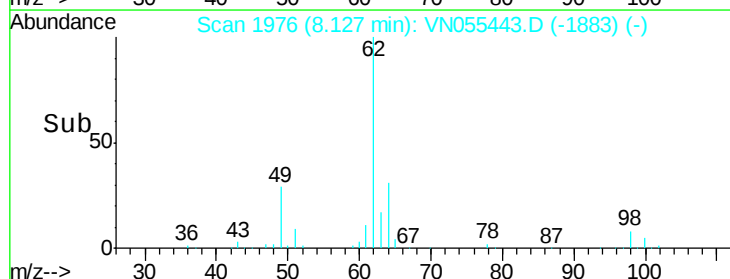
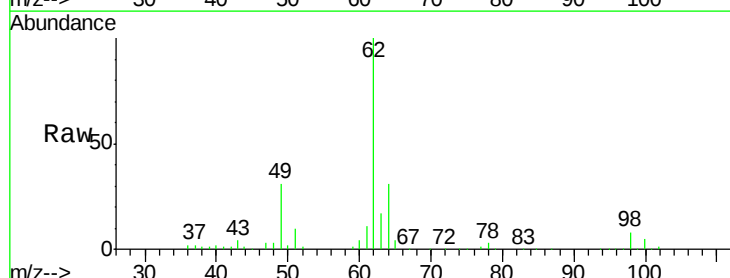
Manual Integrations
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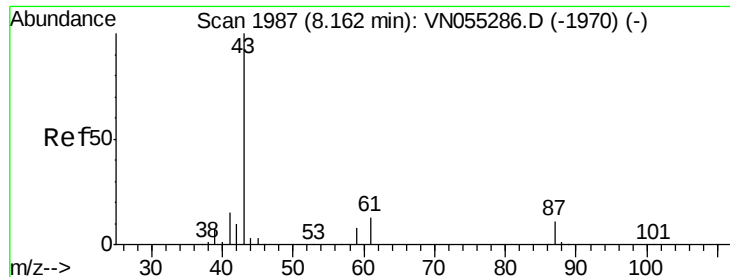
MMDadoda
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#42
1,2-Dichloroethane
Concen: 53.137 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	62	Resp	310183
Ion Ratio	Lower	Upper	
62	100		
98	8.5	0.0	16.4





#43

Isopropyl Acetate

Concen: 65.974 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

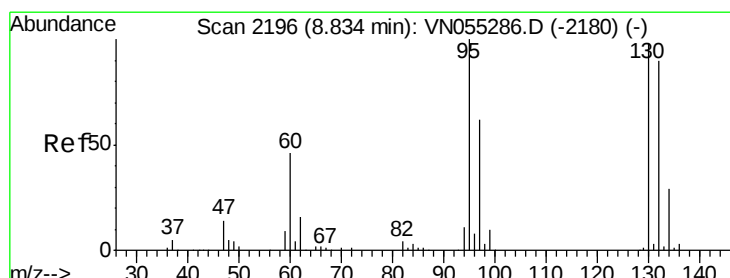
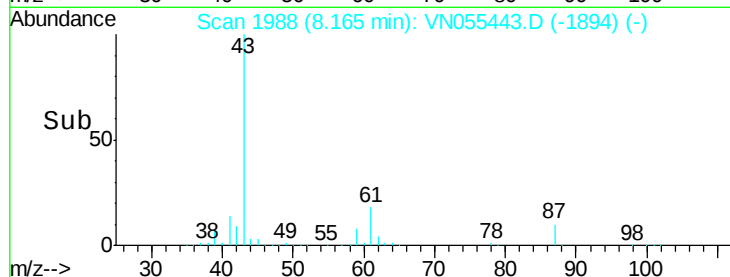
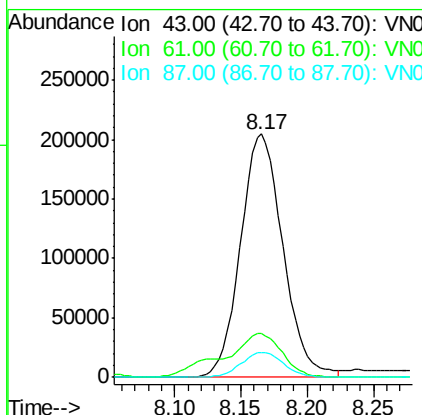
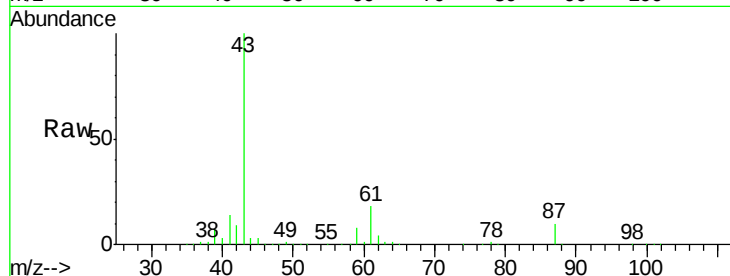
ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion:	43	Resp:	454301
Ion	Ratio	Lower	Upper
43	100		
61	24.6	20.8	31.2
87	10.3	8.5	12.7

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#44

Trichloroethene

Concen: 50.089 ug/l

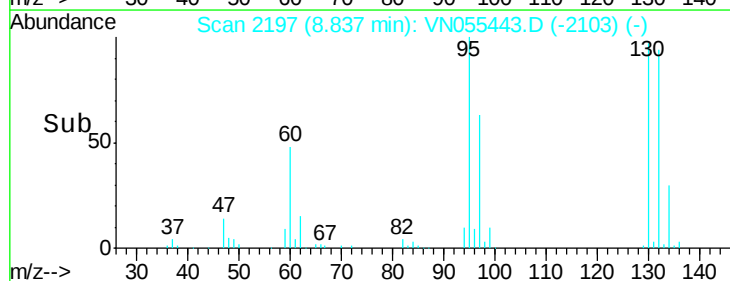
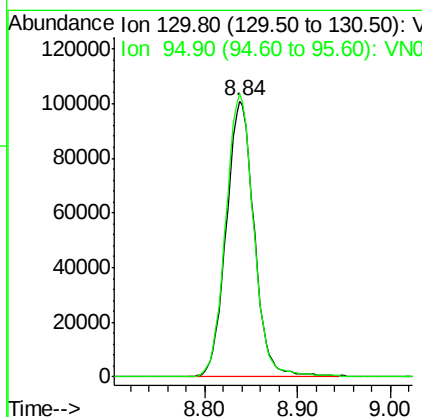
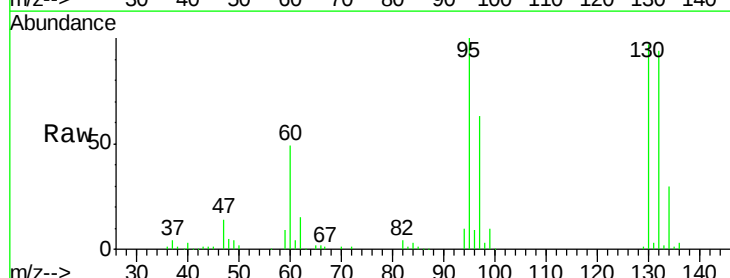
RT: 8.84 min Scan# 2197

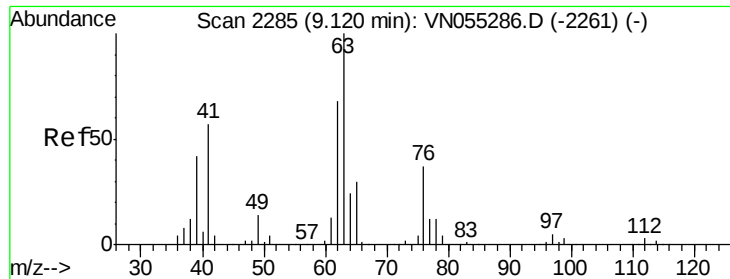
Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Tgt Ion:	130	Resp:	210454
Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	203.4





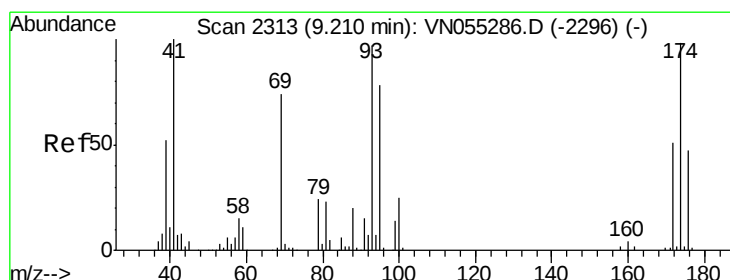
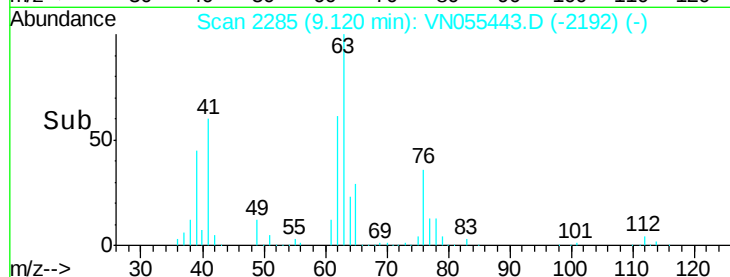
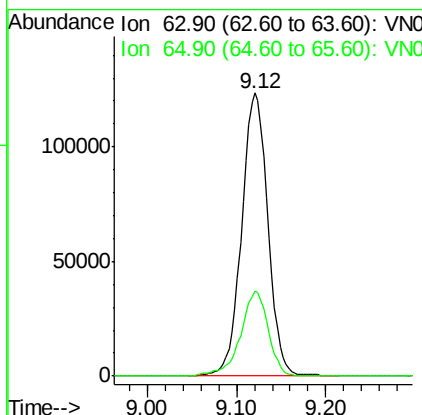
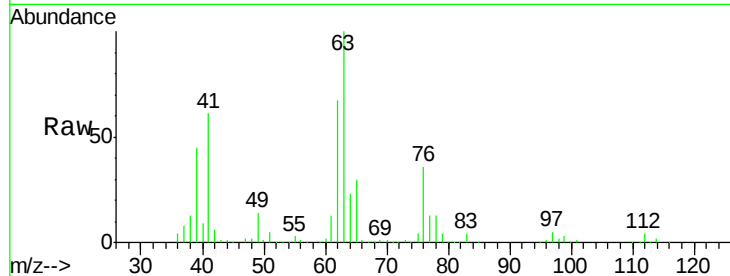
#45
 1,2-Dichloropropane
 Concen: 53.084 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-PZ-W4-5MSD

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.9	23.9	35.9

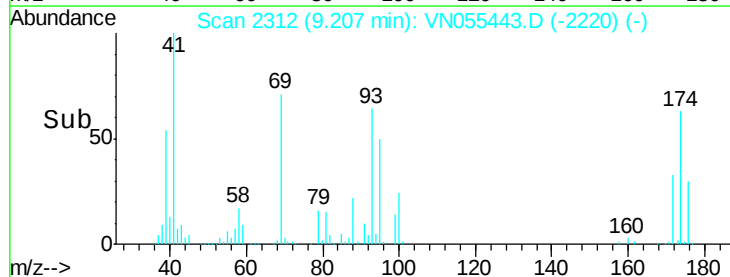
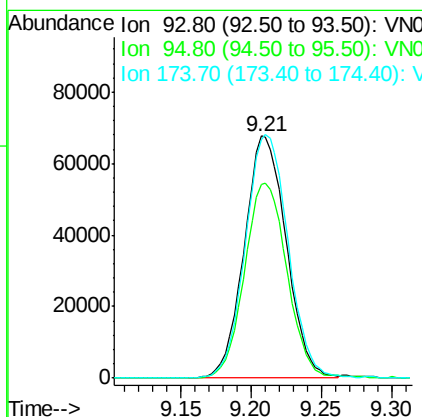
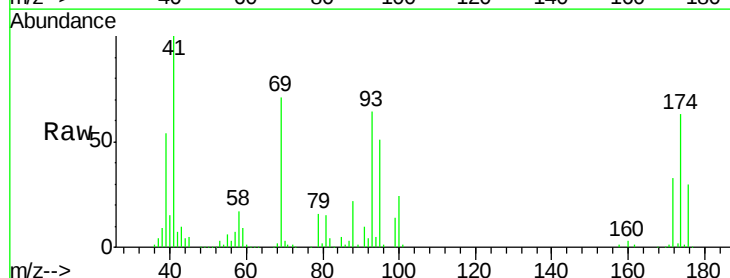
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#46
 Dibromomethane
 Concen: 54.413 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Lower	Upper
93	100		
95	81.3	65.7	98.5
174	102.3	81.5	122.3





#47

Bromodichloromethane

Concen: 53.680 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

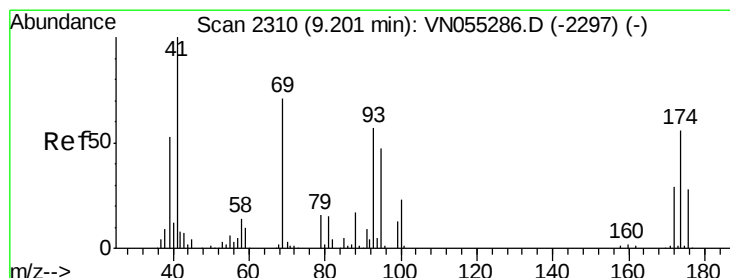
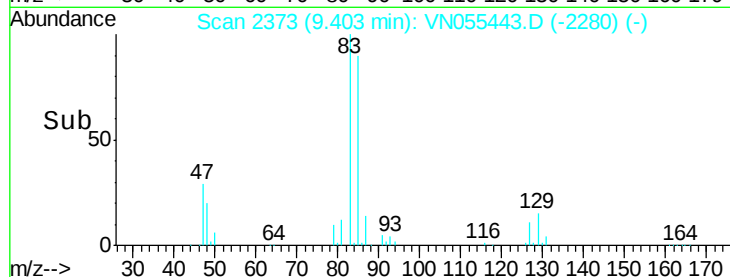
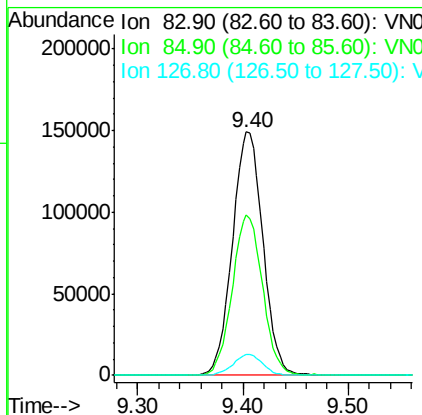
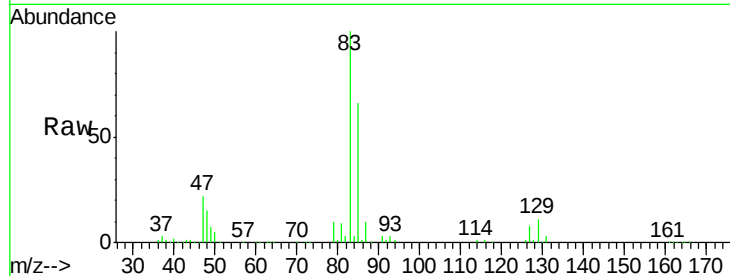
ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion:	83	Resp:	299219
Ion Ratio	Lower	Upper	
83	100		
85	65.9	50.1	75.1
127	8.3	6.7	10.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 65.793 ug/l

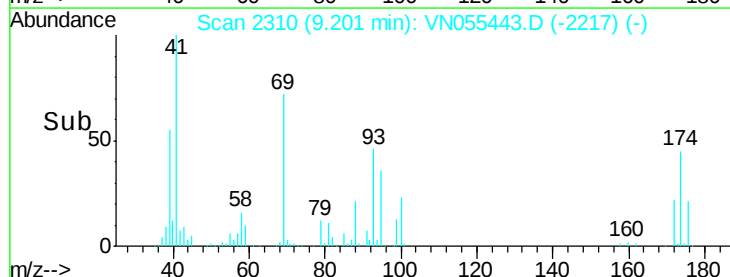
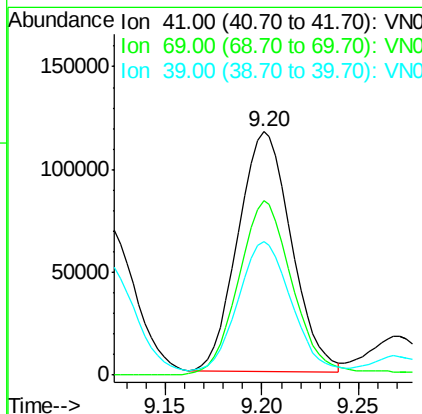
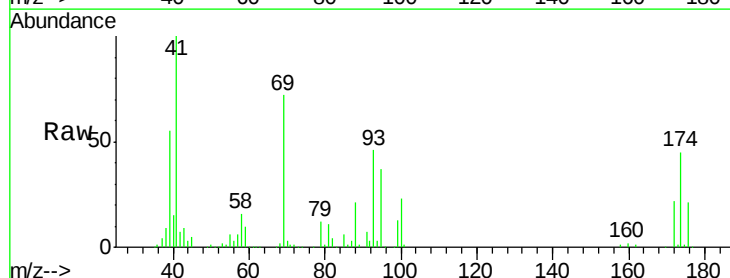
RT: 9.20 min Scan# 2310

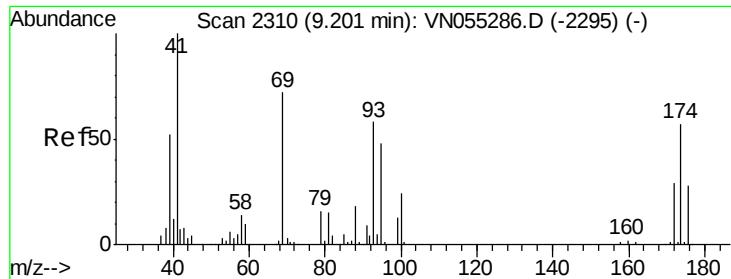
Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Tgt Ion:	41	Resp:	222723
Ion Ratio	Lower	Upper	
41	100		
69	74.9	58.6	87.8
39	56.5	43.8	65.6





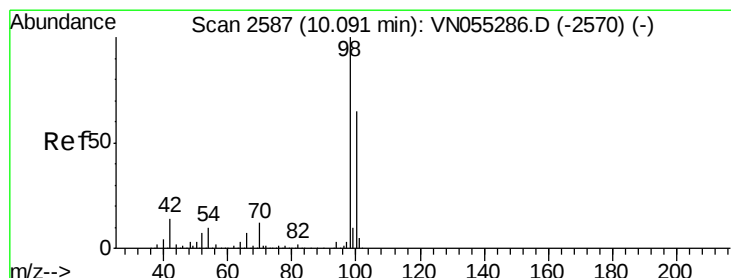
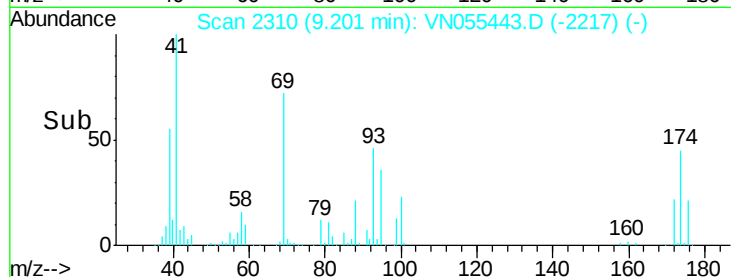
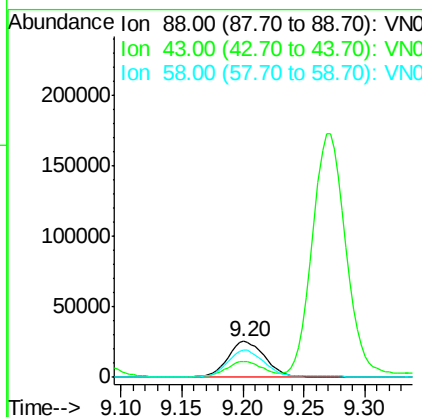
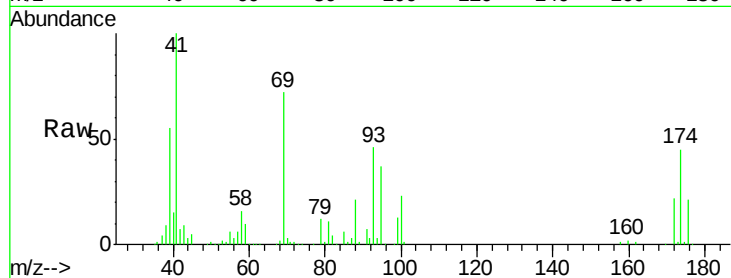
#49
1,4-Dioxane
Concen: 1569.259 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion	88	Resp	54915
Ion	Ratio	Lower	Upper
88	100		
43	39.7	33.3	49.9
58	74.7	62.7	94.1

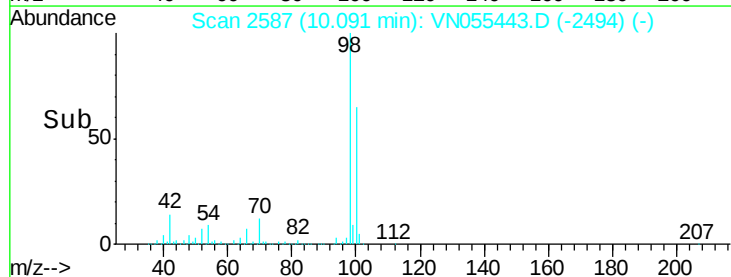
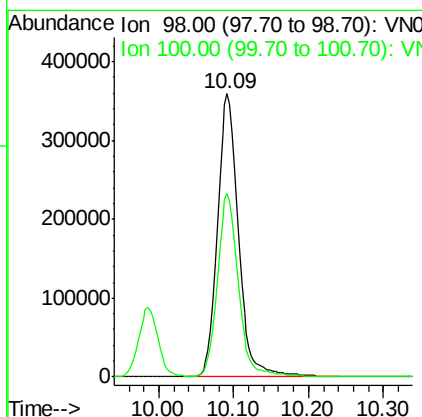
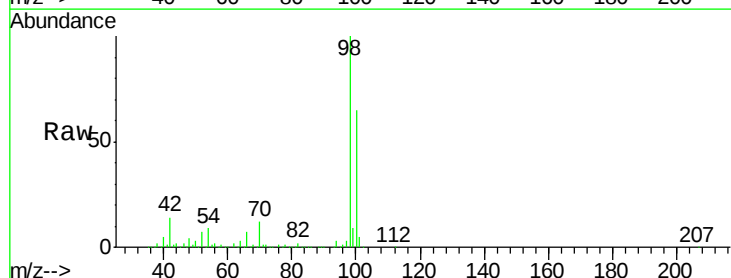
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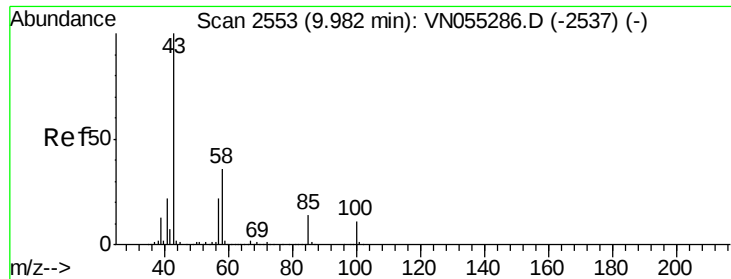
MMDadoda
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#50
Toluene-d8
Concen: 50.507 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	98	Resp	698702
Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 364.775 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion: 43 Resp: 1414227

Ion Ratio Lower Upper

43 100

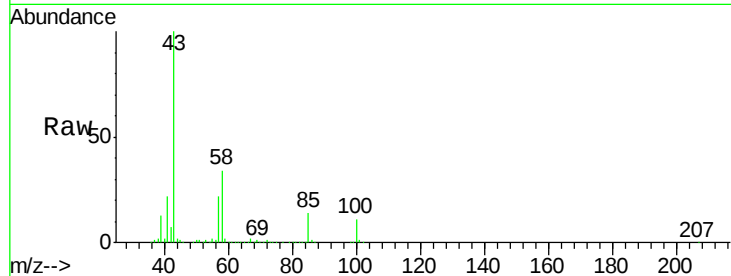
58 34.7 28.5 42.7

Manual Integrations

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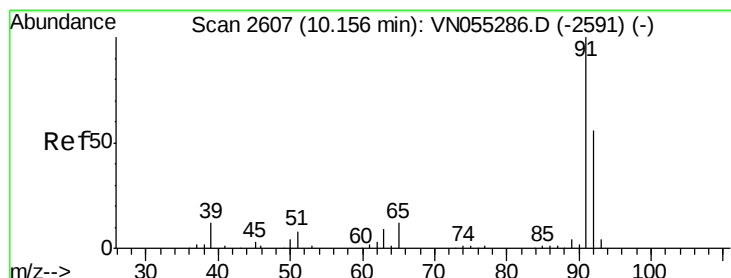
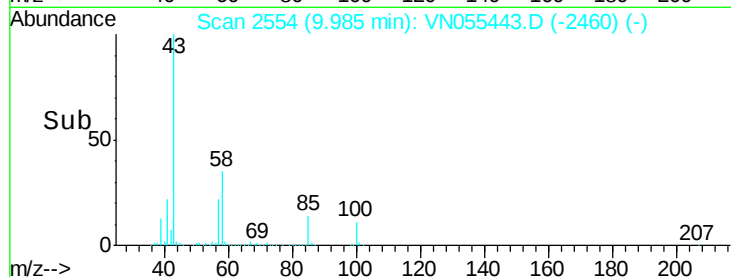
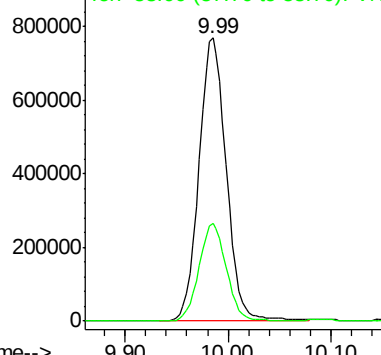
MMDadoda

5/8/2019 10:22:27 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 52.194 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055443.D

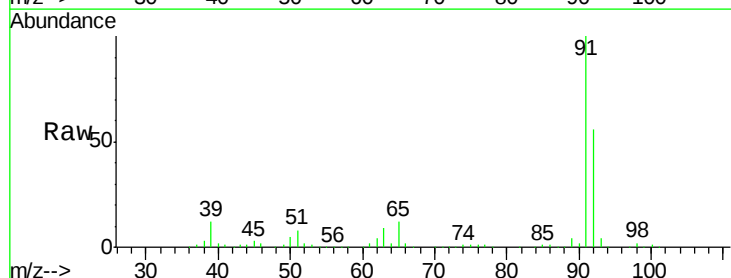
Acq: 7 May 2019 17:35

Tgt Ion: 92 Resp: 493577

Ion Ratio Lower Upper

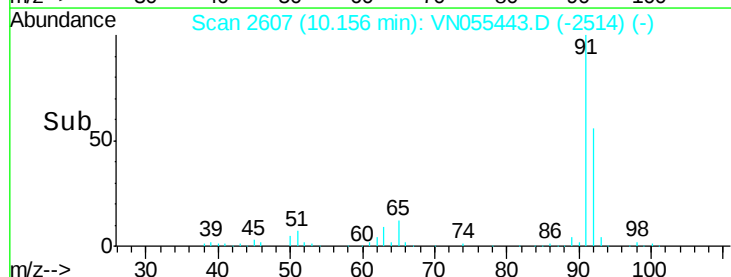
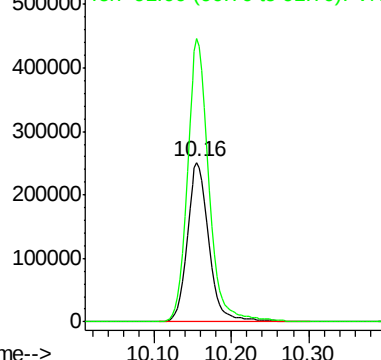
92 100

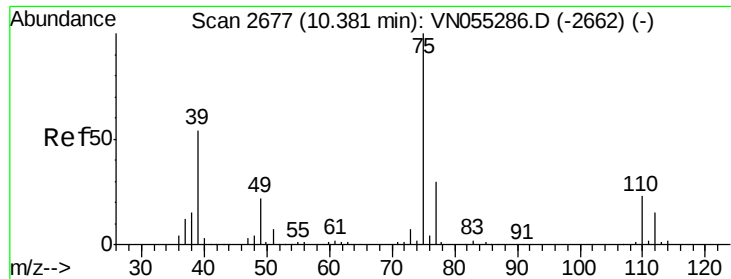
91 176.2 140.1 210.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





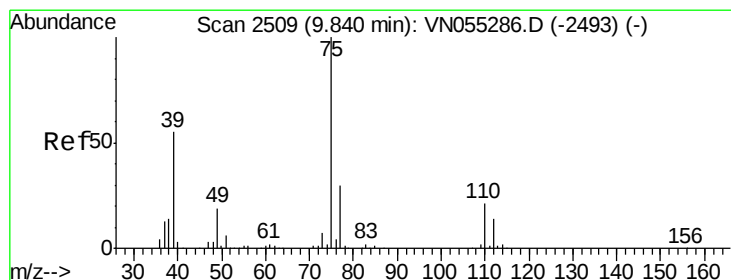
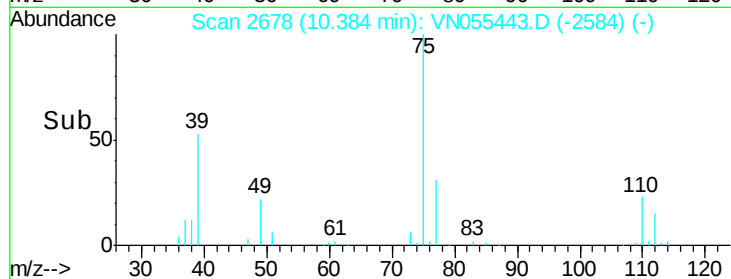
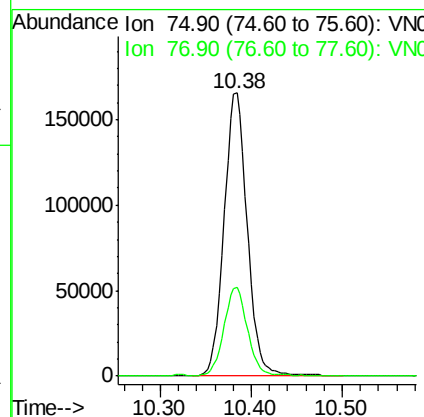
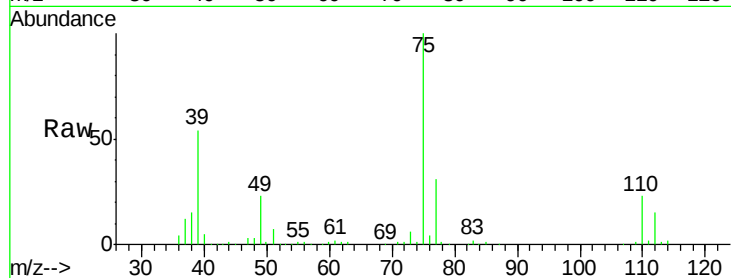
#53
t-1,3-Dichloropropene
Concen: 60.811 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.0	24.4	36.6

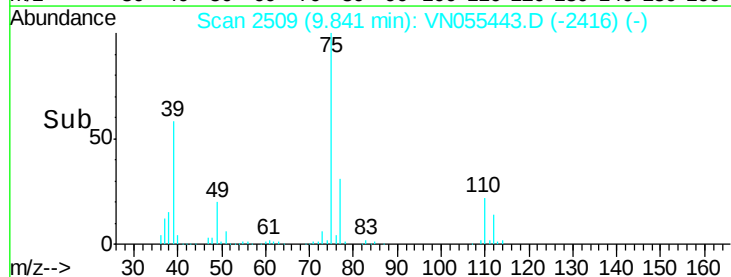
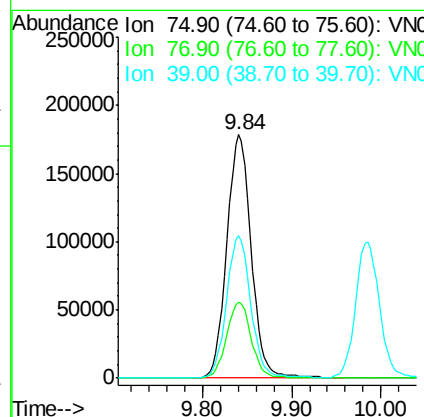
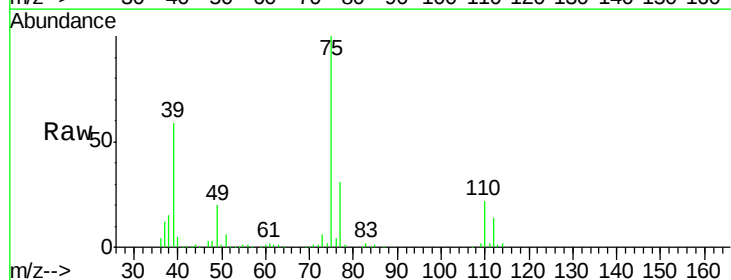
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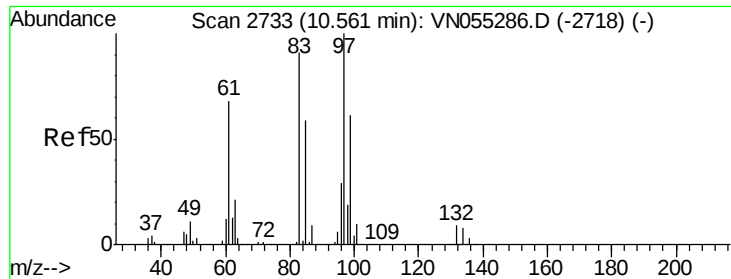
MMDadoda
5/8/2019 10:22:27 AM



#54
cis-1,3-Dichloropropene
Concen: 56.176 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.2	24.2	36.2
39	58.4	44.2	66.2





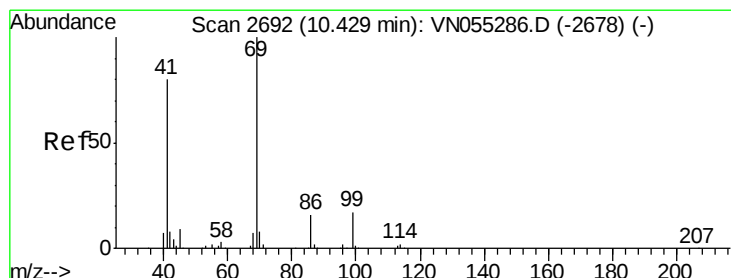
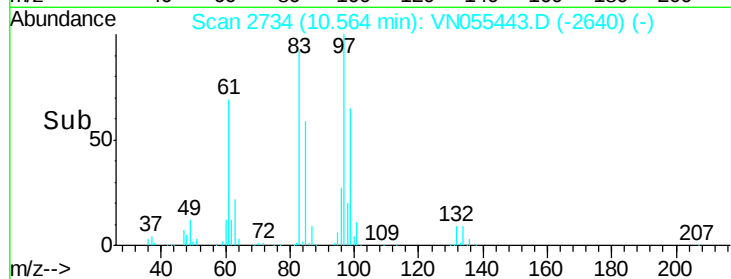
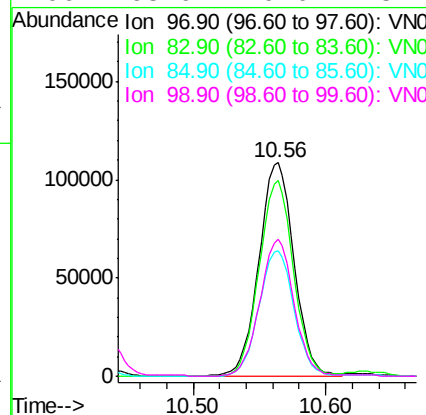
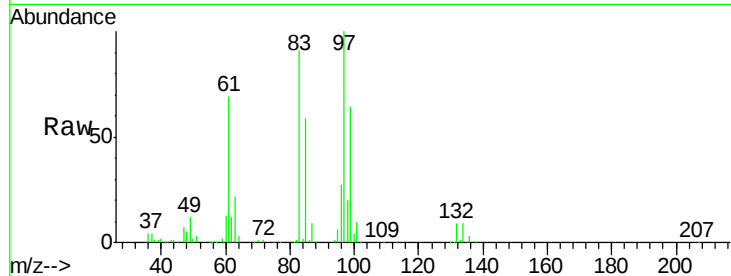
#55
 1,1,2-Trichloroethane
 Concen: 57.302 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-PZ-W4-5MSD

Tot Ion:	97	Resp:	201222
Ion	Ratio	Lower	Upper
97	100		
83	91.4	72.8	109.2
85	59.0	47.0	70.6
99	63.9	49.0	73.4

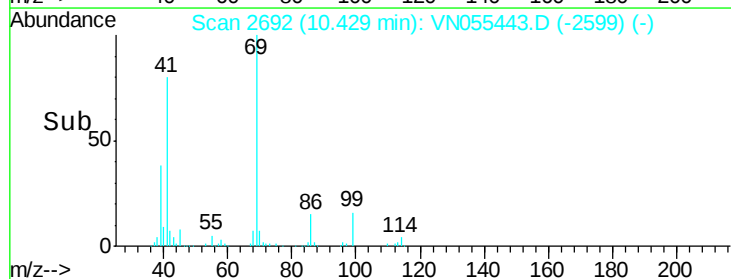
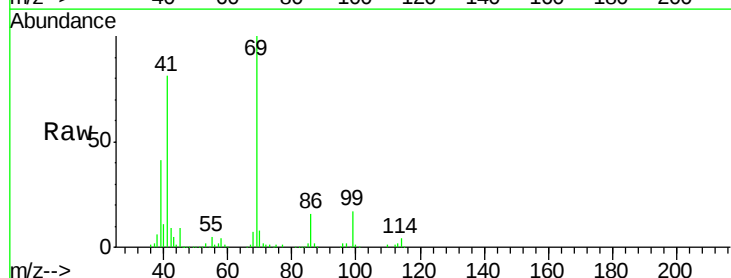
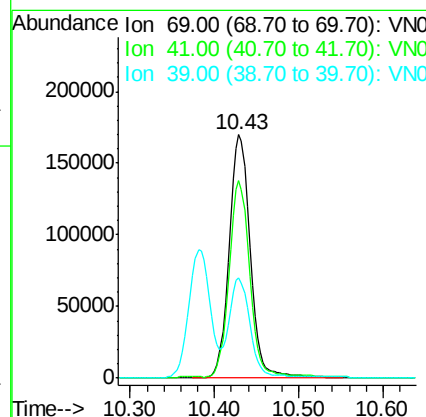
Manual Integrations
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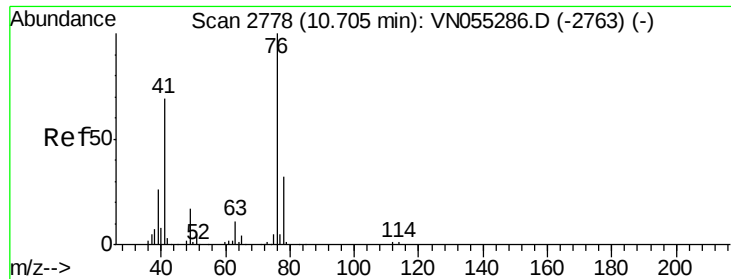
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 5/8/2019 10:22:27 AM



#56
 Ethyl methacrylate
 Concen: 68.601 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Tgt Ion:	69	Resp:	296512
Ion	Ratio	Lower	Upper
69	100		
41	78.3	62.7	94.1
39	40.6	32.0	48.0





#57

1,3-Dichloropropane

Concen: 57.112 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion: 76 Resp: 351831

Ion Ratio Lower Upper

76 100

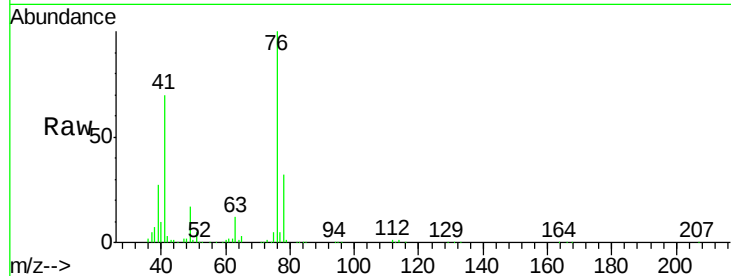
78 32.0 25.6 38.4

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

200000

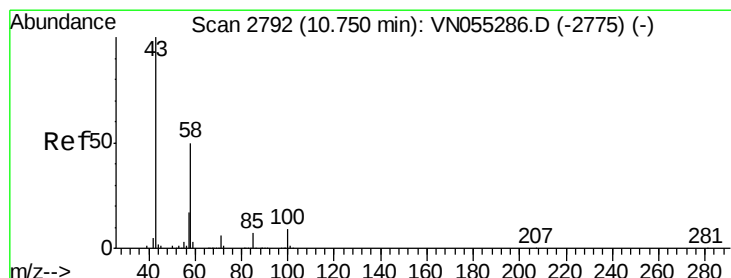
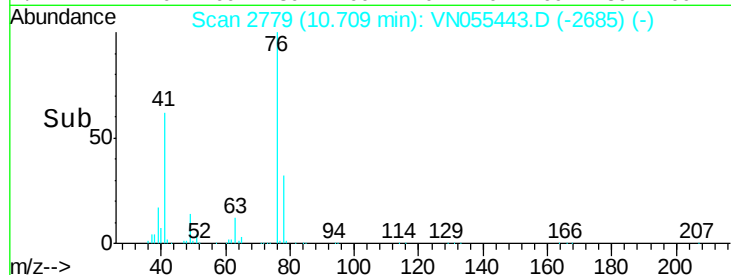
150000

100000

50000

0

Time-->



#59

2-Hexanone

Concen: 375.207 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN055443.D

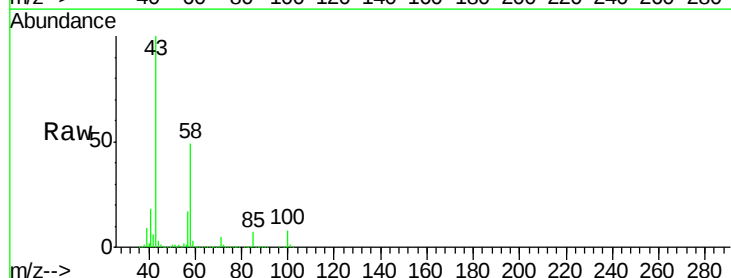
Acq: 7 May 2019 17:35

Tgt Ion: 43 Resp: 910167

Ion Ratio Lower Upper

43 100

58 48.7 24.9 74.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.75

600000

500000

400000

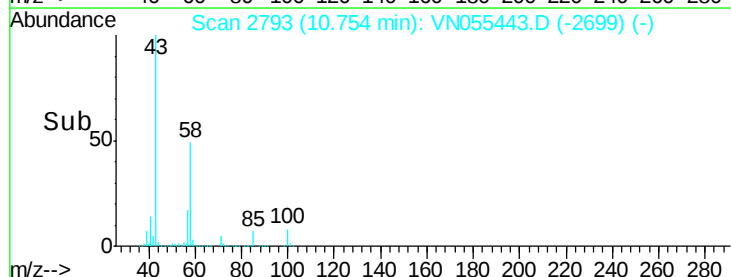
300000

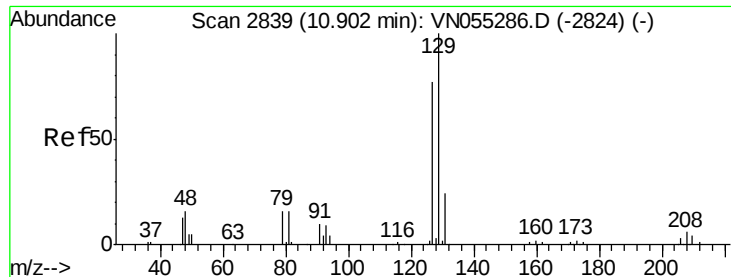
200000

100000

0

Time-->





#60

Dibromochloromethane

Concen: 59.487 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion:129 Resp: 213500

Ion Ratio Lower Upper

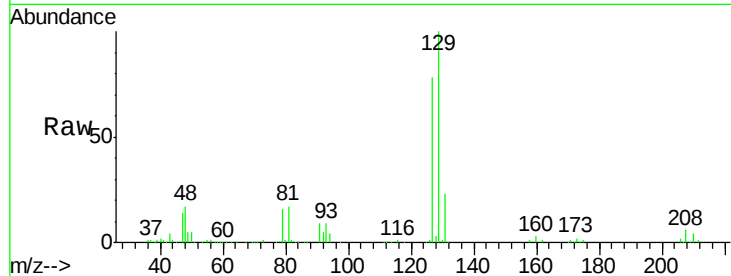
129 100

127 77.2 38.1 114.5

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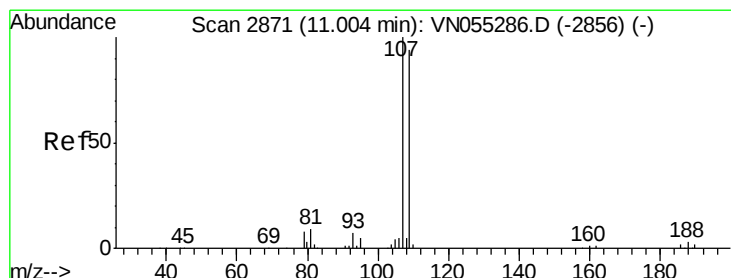
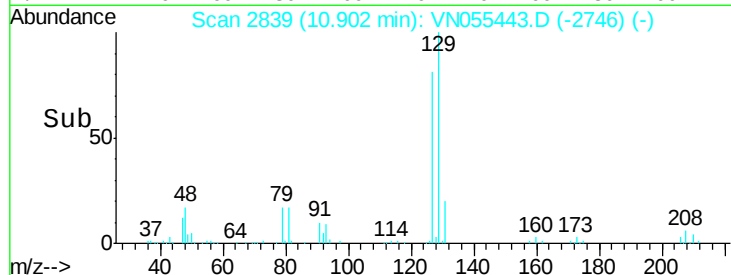
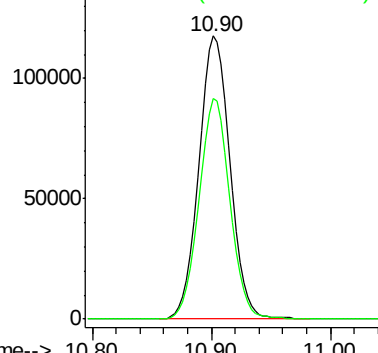
MMDadoda

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Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 58.830 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN055443.D

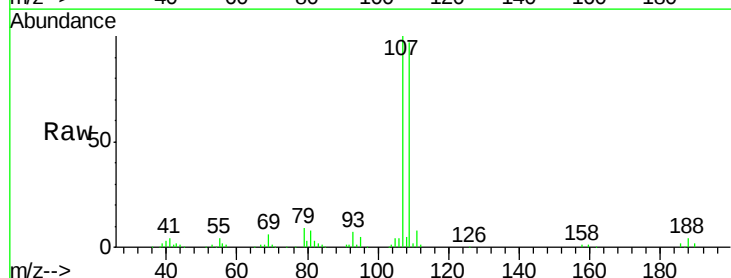
Acq: 7 May 2019 17:35

Tgt Ion:107 Resp: 190947

Ion Ratio Lower Upper

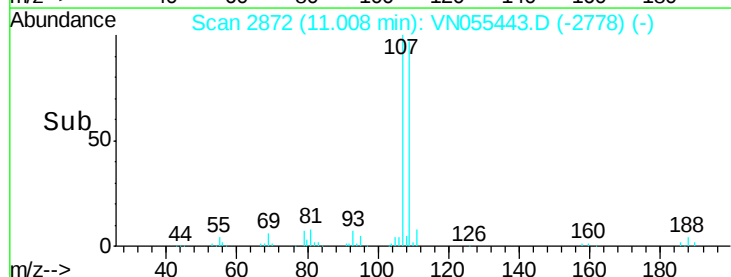
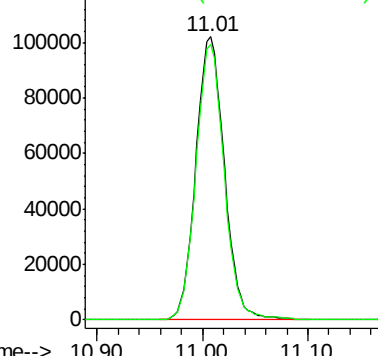
107 100

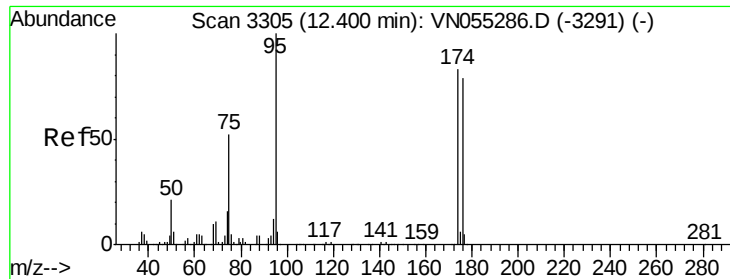
109 96.5 75.0 112.6



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V





#62

4-Bromofluorobenzene

Concen: 58.272 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

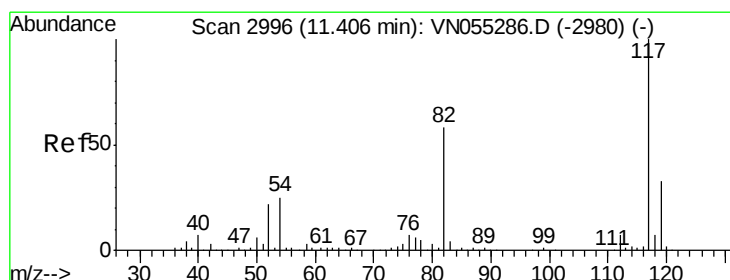
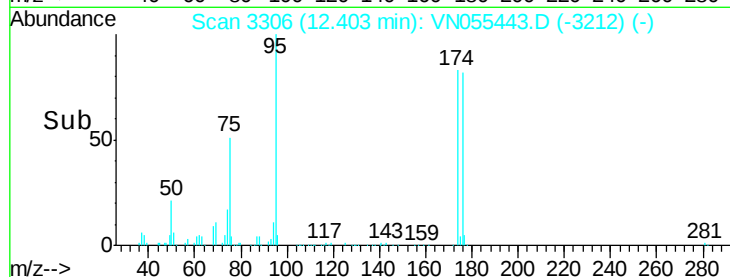
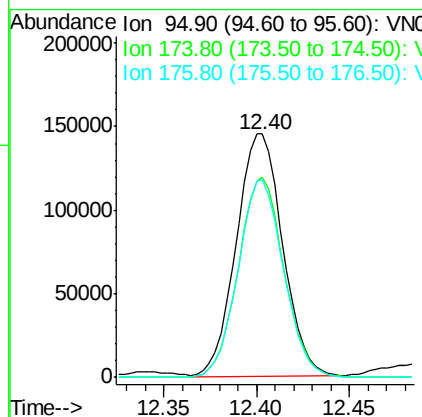
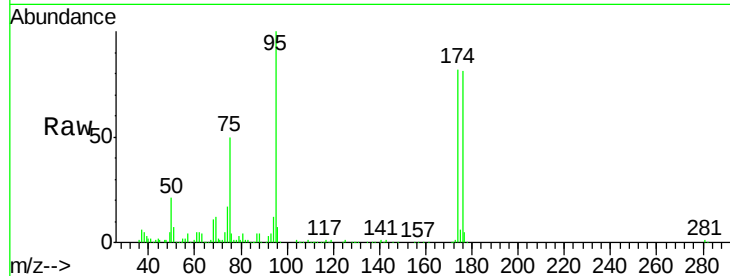
ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion:	95	Resp:	251945
Ion Ratio	Lower	Upper	
95	100		
174	81.4	0.0	166.6
176	79.8	0.0	157.8

Manual Integrations
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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

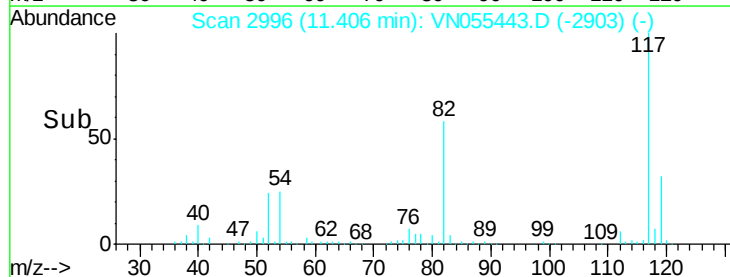
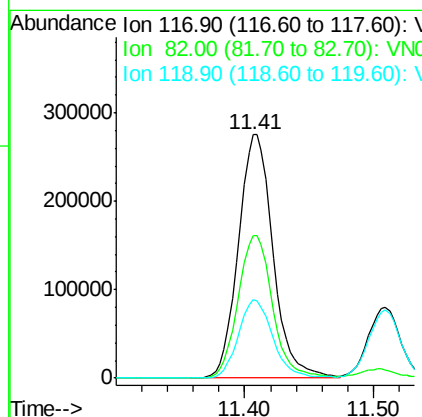
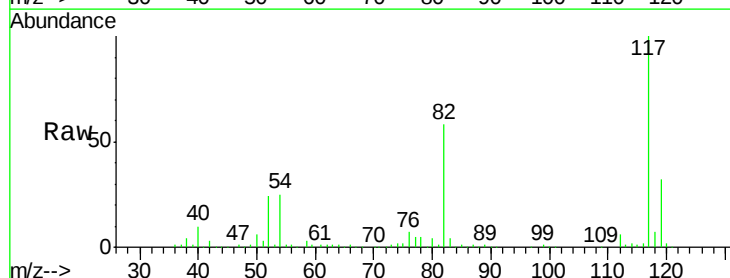
RT: 11.41 min Scan# 2996

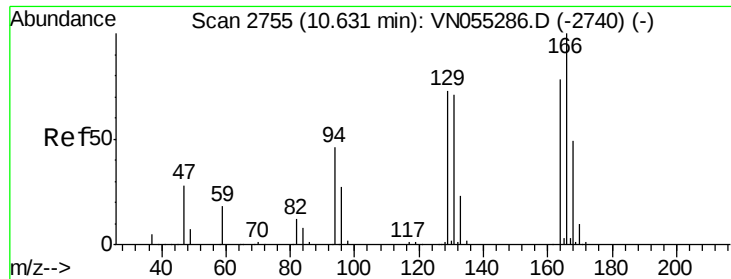
Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Tgt Ion:	117	Resp:	515296
Ion Ratio	Lower	Upper	
117	100		
82	58.3	46.2	69.4
119	32.1	26.6	40.0





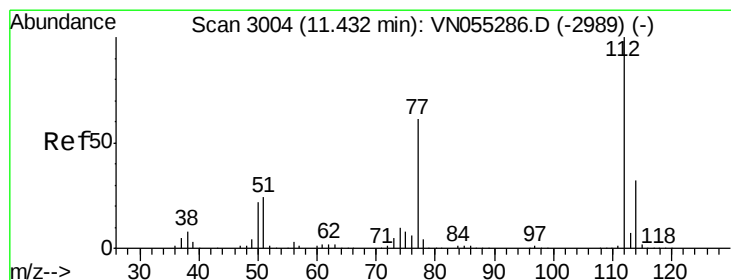
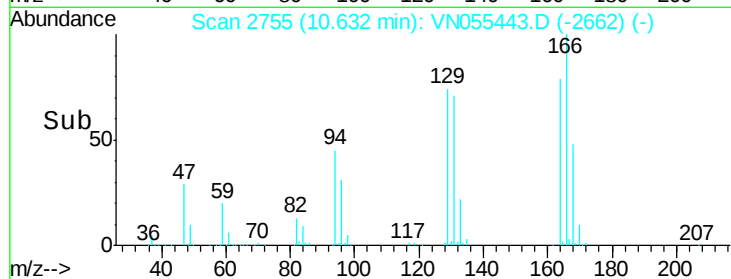
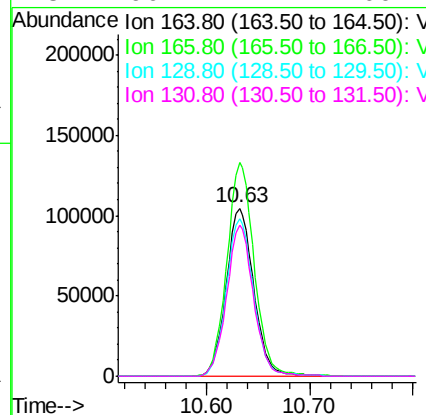
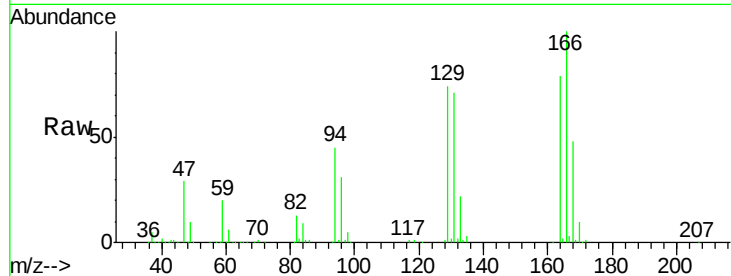
#64
Tetrachloroethene
Concen: 46.091 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion	Ratio	Lower	Upper
164	100		
166	127.0	102.3	153.5
129	94.0	75.0	112.6
131	90.2	72.7	109.1

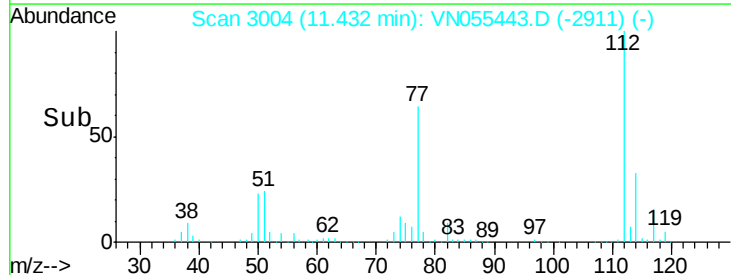
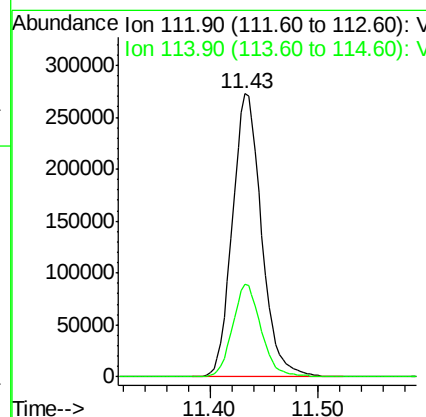
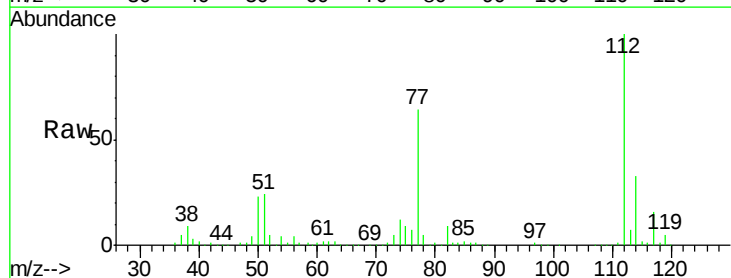
Manual Integrations
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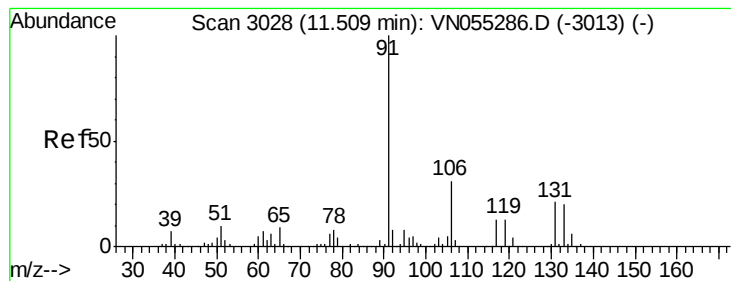
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#65
Chlorobenzene
Concen: 50.992 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.9	25.3	37.9





#66

1,1,1,2-Tetrachloroethane

Concen: 51.490 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

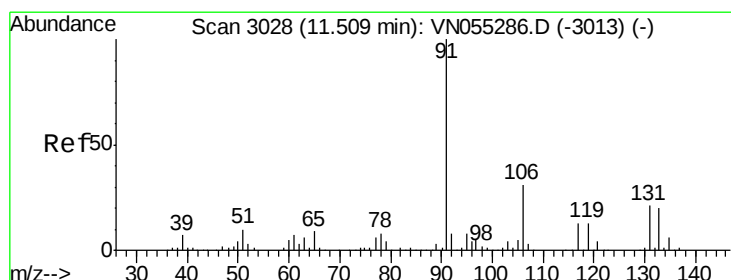
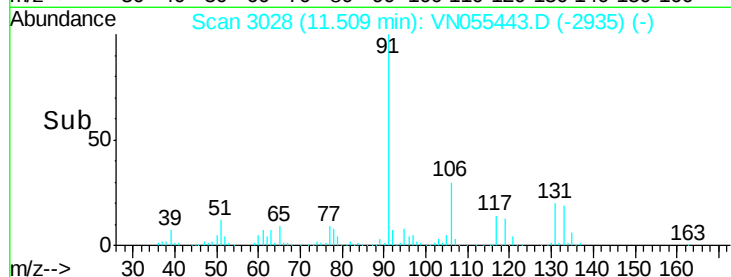
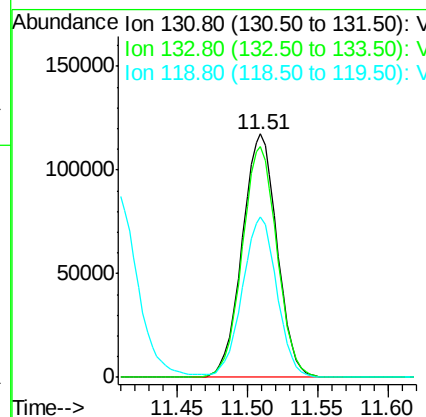
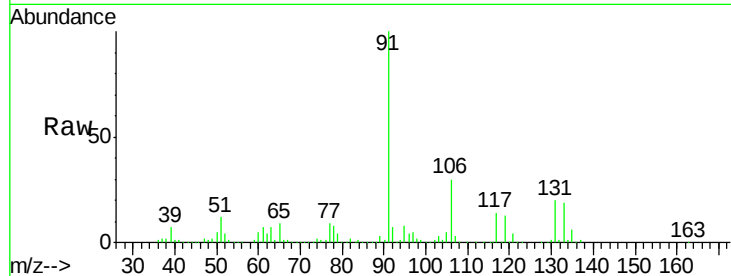
ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
131	100		203124		
133	94.7	47.5	142.6		
119	65.2	32.7	98.1		

Manual Integrations
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#67

Ethyl Benzene

Concen: 55.838 ug/l

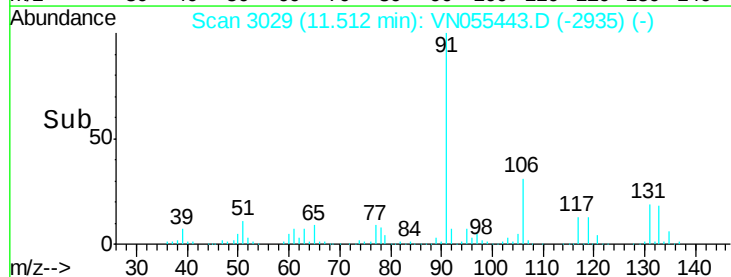
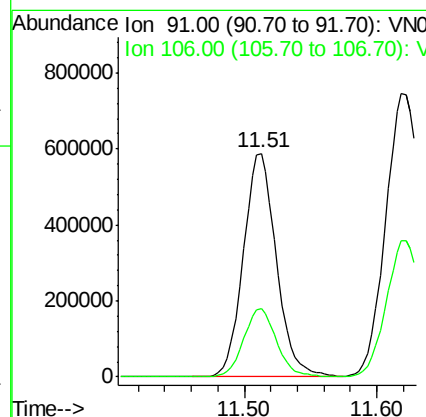
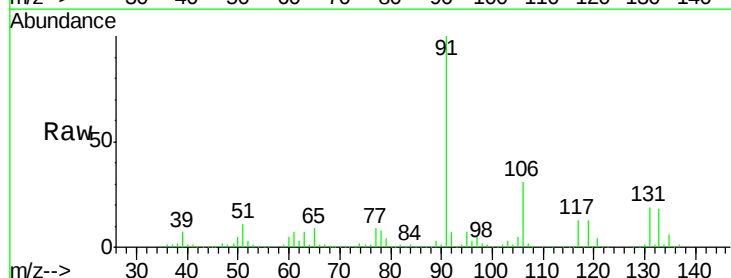
RT: 11.51 min Scan# 3029

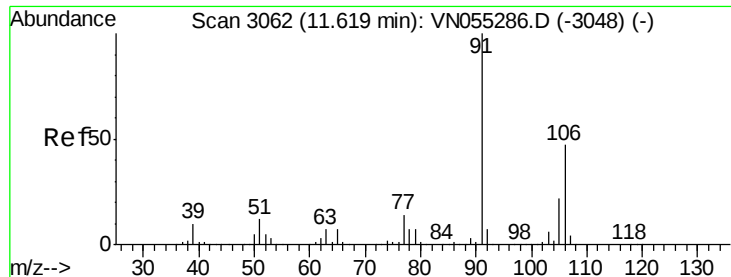
Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		1015852		
106	30.6	24.6	36.8		





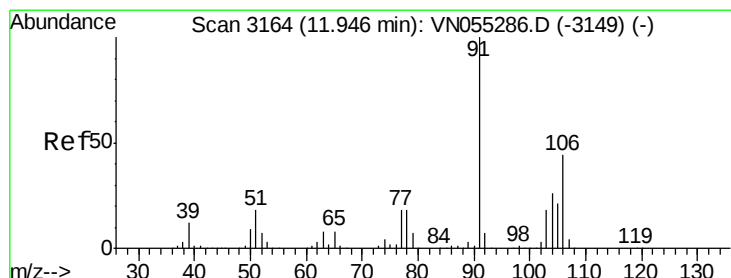
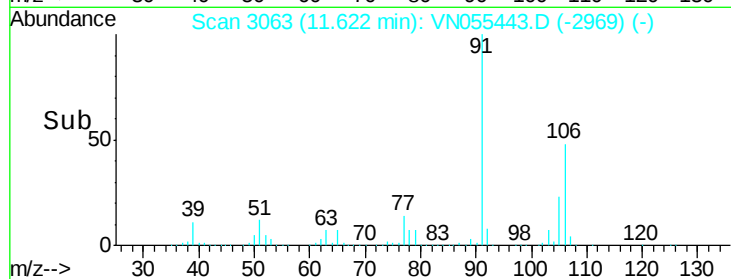
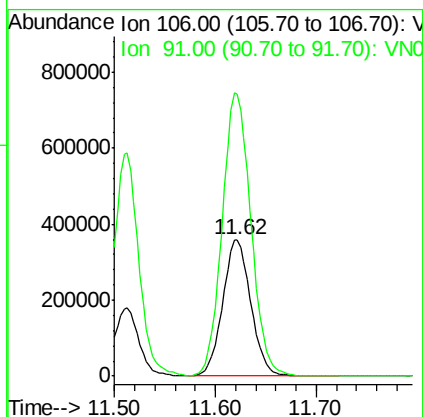
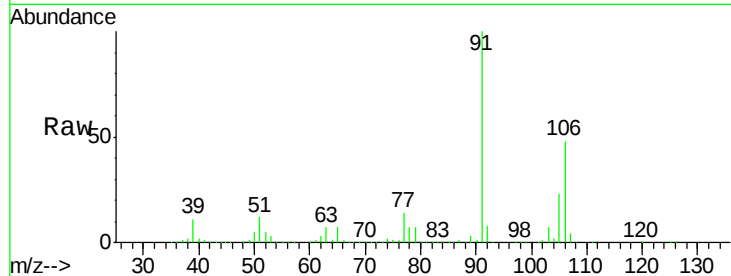
#68
m/p-Xylenes
Concen: 107.553 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion:106 Resp: 698433
Ion Ratio Lower Upper
106 100
91 211.7 169.5 254.3

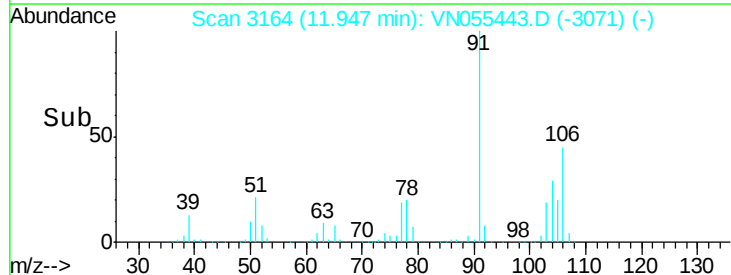
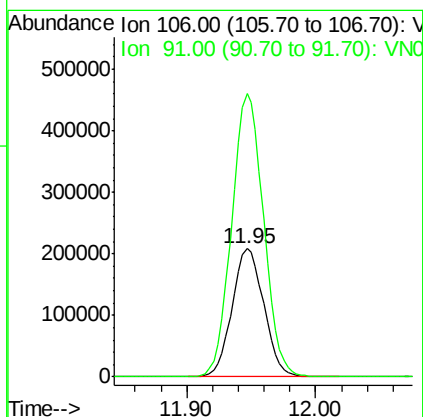
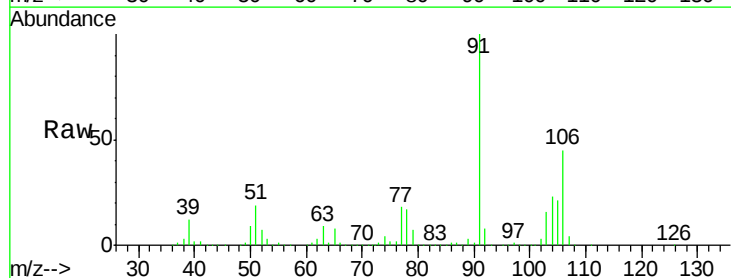
Manual Integrations
APPROVED

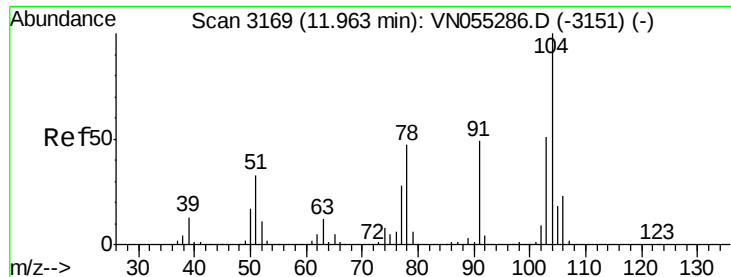
MMDadoda
5/8/2019 10:22:27 AM



#69
o-Xylene
Concen: 55.453 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion:106 Resp: 356921
Ion Ratio Lower Upper
106 100
91 221.2 111.5 334.5





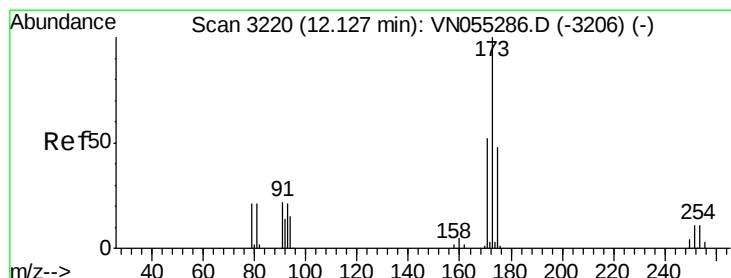
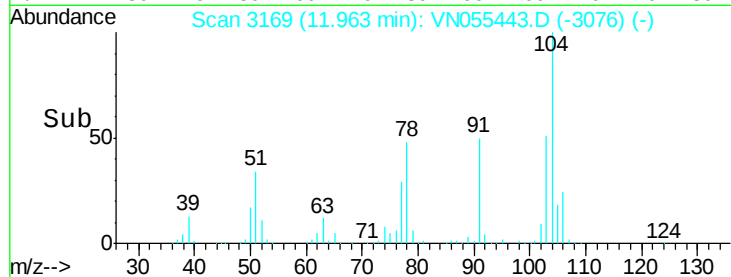
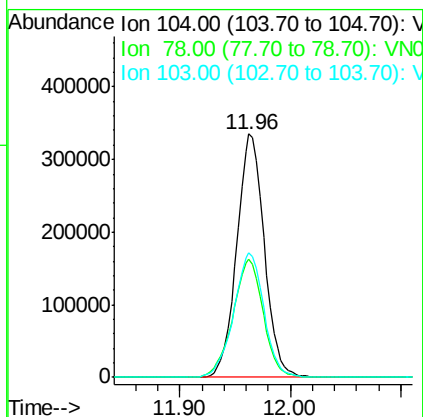
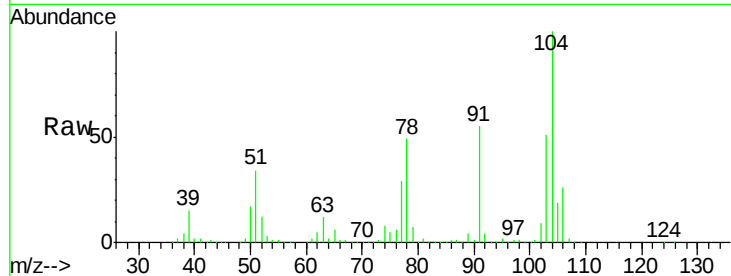
#70
Stvrene
Concen: 58.675 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.2	42.2	63.2
103	56.0	44.6	67.0

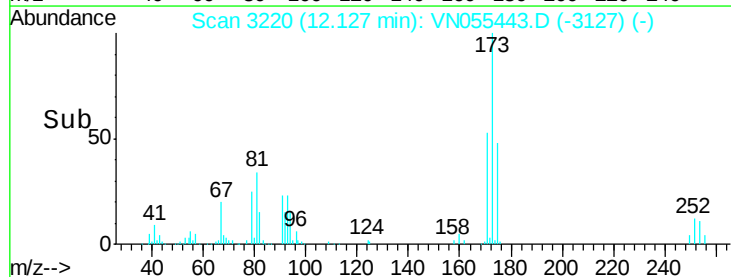
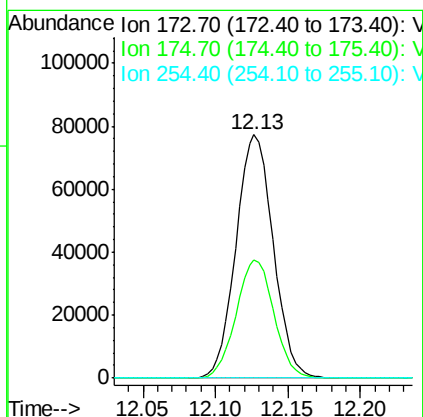
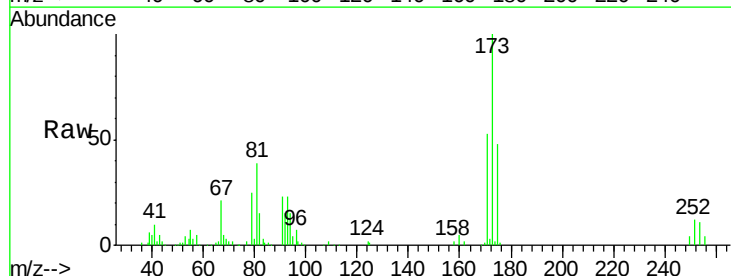
Manual Integrations
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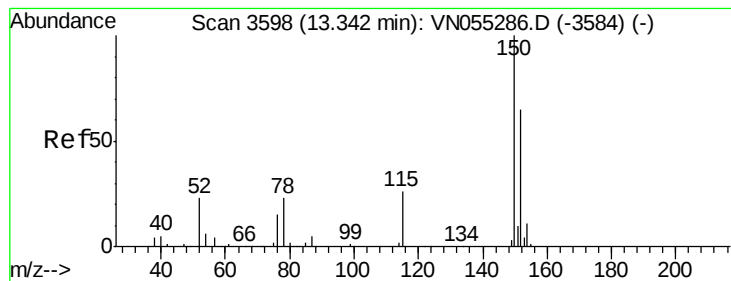
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5/8/2019 10:22:27 AM



#71
Bromoform
Concen: 63.116 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.1	23.6	71.0
254	0.1	0.0	0.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

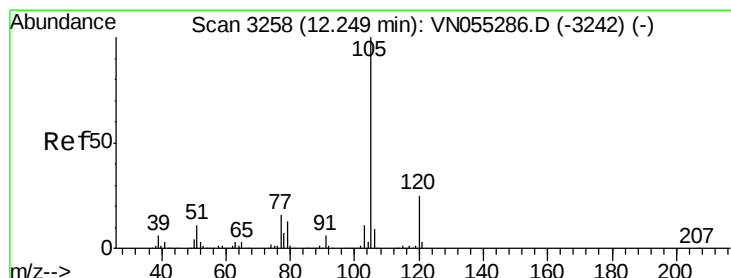
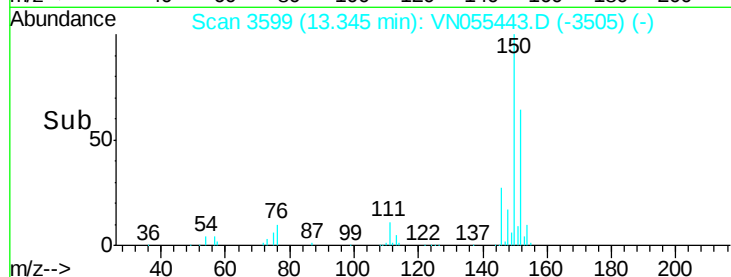
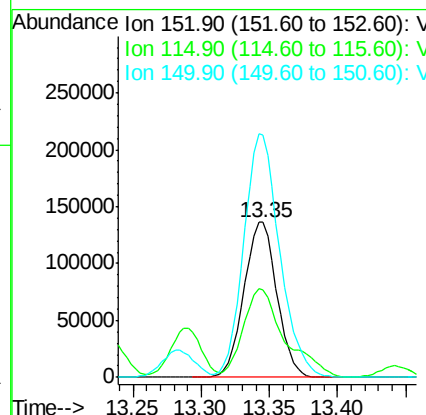
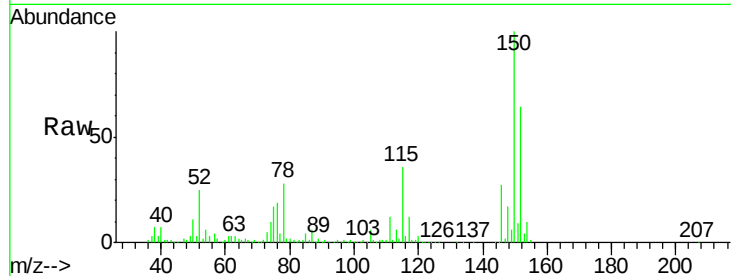
ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion:	152	Resp:	228131
Ion Ratio	Lower	Upper	
152	100		
115	71.4	29.0	87.0
150	171.0	0.0	345.6

Manual Integrations
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#73

Isopropylbenzene

Concen: 60.234 ug/l

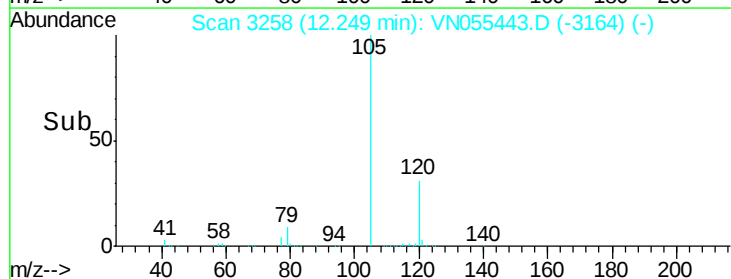
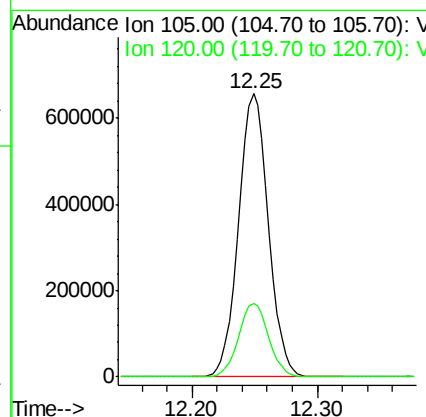
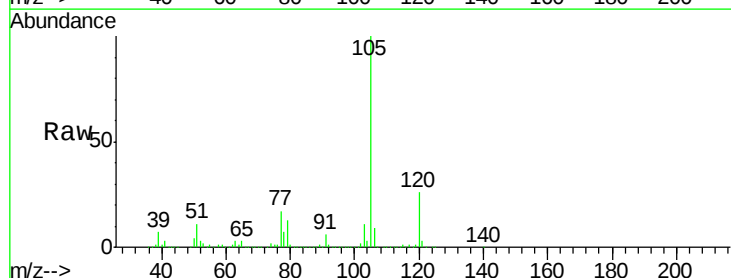
RT: 12.25 min Scan# 3258

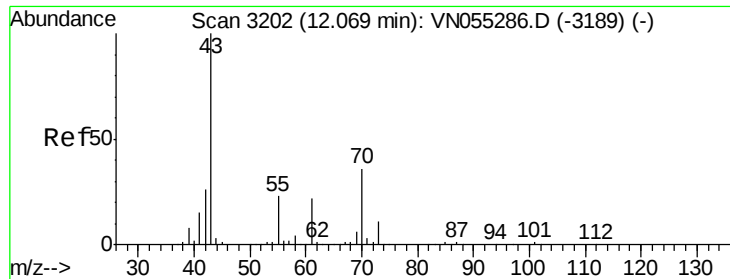
Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Tgt Ion:	105	Resp:	1081642
Ion Ratio	Lower	Upper	
105	100		
120	26.2	12.9	38.7





#74

N-amvl acetate

Concen: 63.907 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

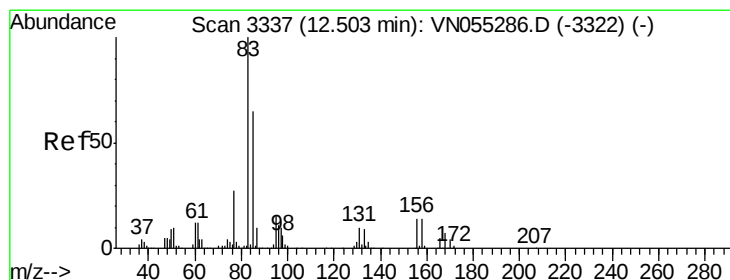
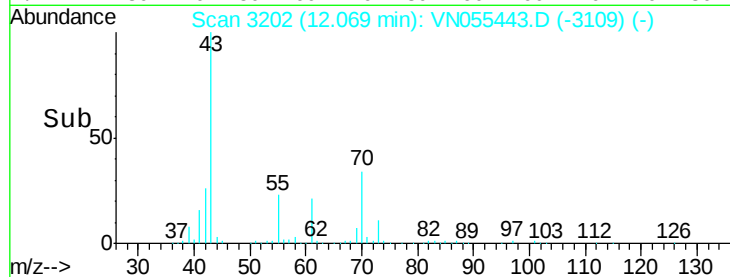
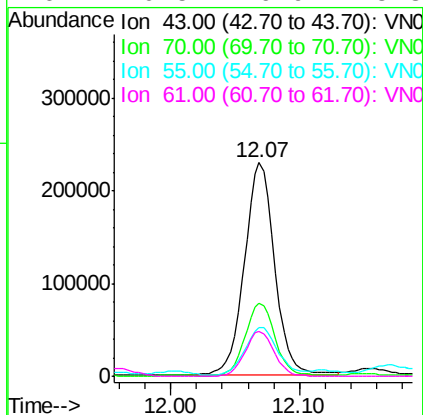
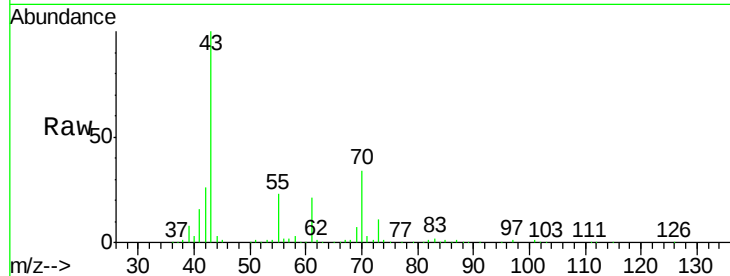
ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion	43	Resp	374155
Ion Ratio	Lower	Upper	
43	100		
70	33.7	27.9	41.9
55	23.7	18.2	27.2
61	20.5	16.9	25.3

Manual Integrations
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#75

1,1,2,2-Tetrachloroethane

Concen: 61.029 ug/l

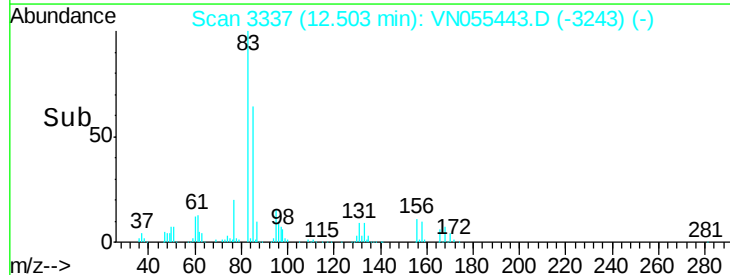
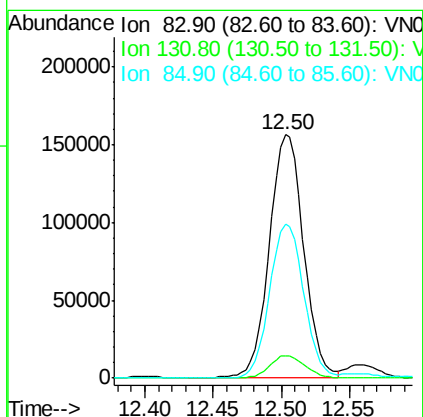
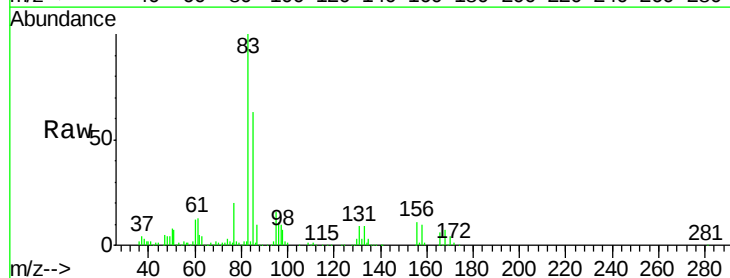
RT: 12.50 min Scan# 3337

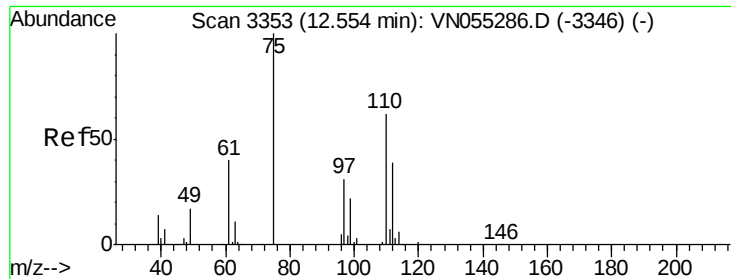
Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Tgt Ion	83	Resp	272685
Ion Ratio	Lower	Upper	
83	100		
131	9.6	5.1	15.2
85	63.3	32.3	96.8





#76

1,2,3-Trichloropropane

Concen: 53.682 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion: 75 Resp: 226845

Ion Ratio Lower Upper

75 100

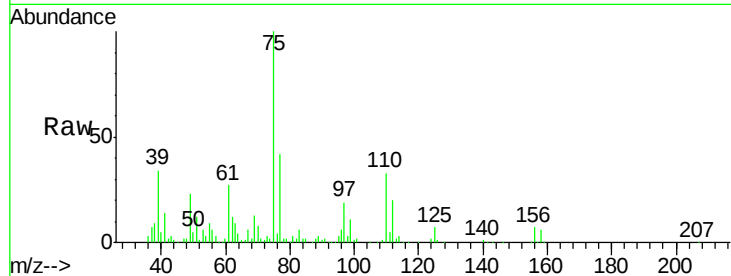
77 0.0 0.0 0.0

Manual Integrations

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5/8/2019 10:22:27 AM



Abundance Ion 74.90 (74.60 to 75.60): VN055286.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN055286.D (-3346) (-)

250000

200000

150000

100000

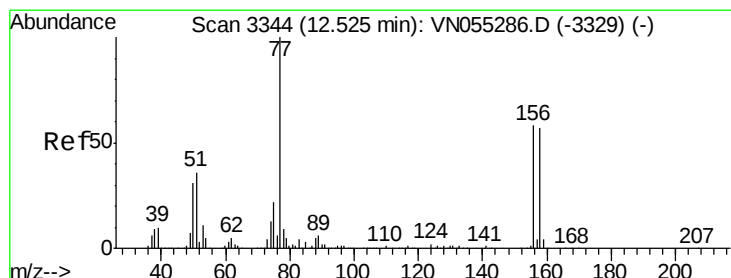
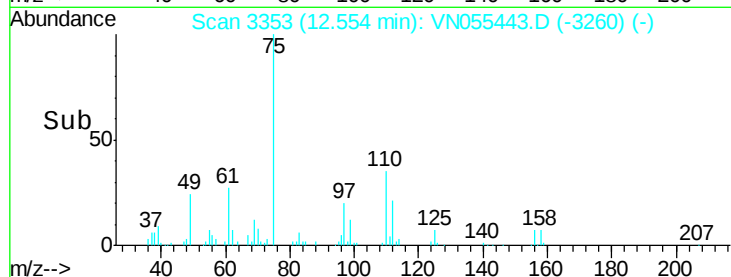
50000

0

12.55

12.60

Time-->



#77

Bromobenzene

Concen: 52.121 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

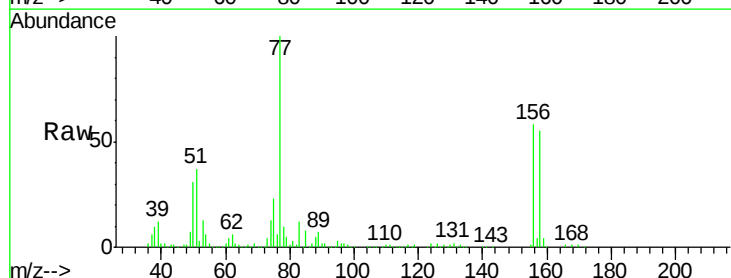
Tgt Ion: 156 Resp: 226418

Ion Ratio Lower Upper

156 100

77 204.7 99.6 298.8

158 95.3 49.3 147.8



Abundance Ion 155.80 (155.50 to 156.50): VN055286.D (-3329) (-)

Ion 77.00 (76.70 to 77.70): VN055286.D (-3329) (-)

Ion 157.80 (157.50 to 158.50): VN055286.D (-3329) (-)

300000

250000

200000

150000

100000

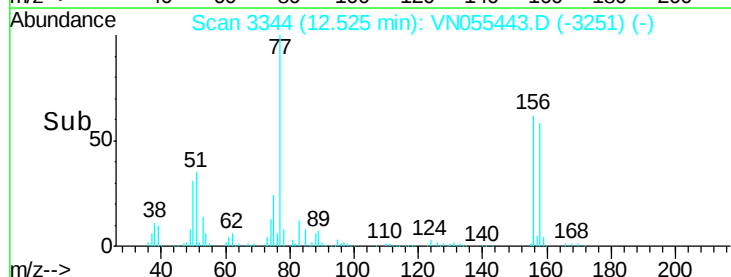
50000

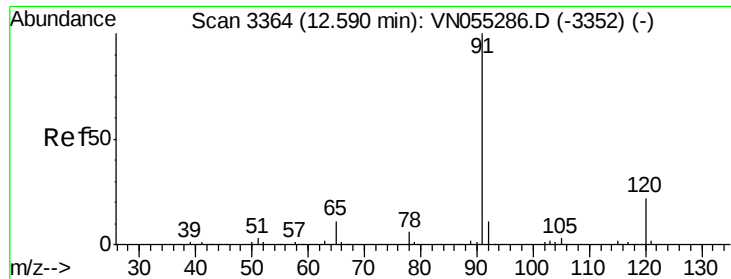
0

12.53

12.60

Time-->





#78

n-propylbenzene

Concen: 56.800 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion: 91 Resp: 1331046

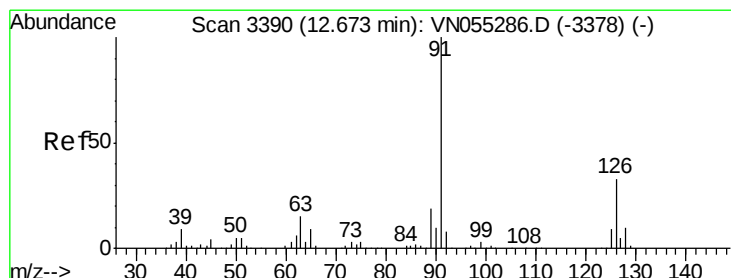
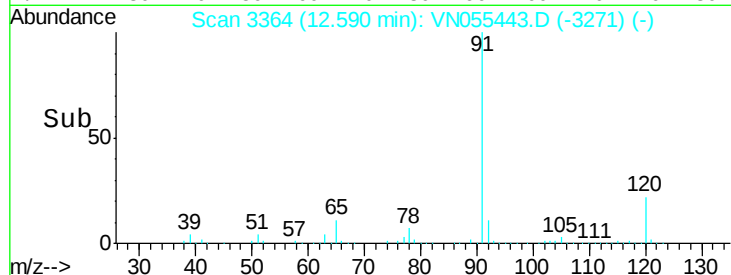
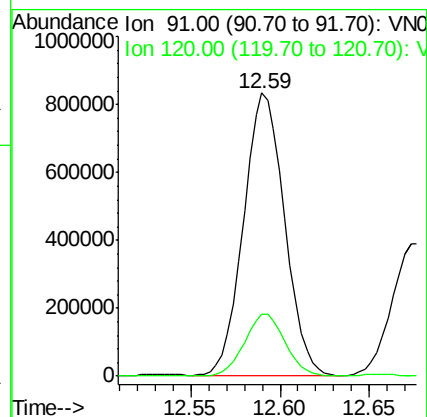
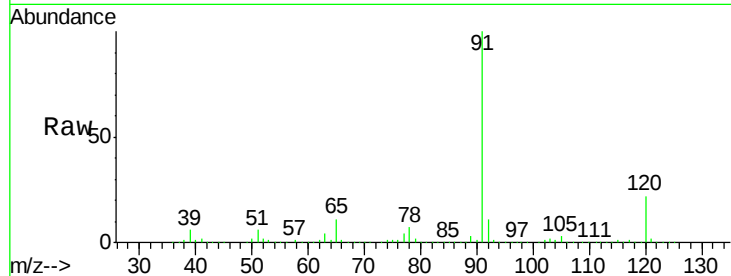
Ion Ratio Lower Upper

91 100

120 21.8 11.0 33.0

Manual Integrations
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#79

2-Chlorotoluene

Concen: 53.470 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055443.D

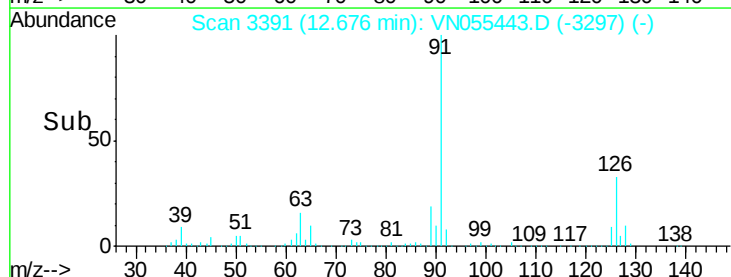
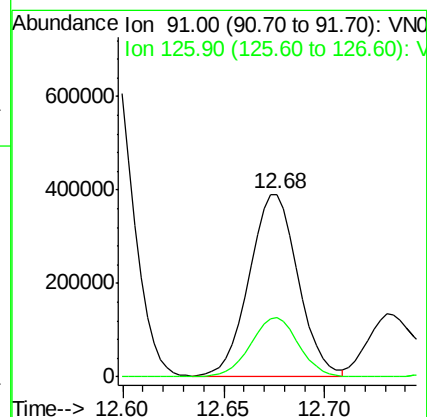
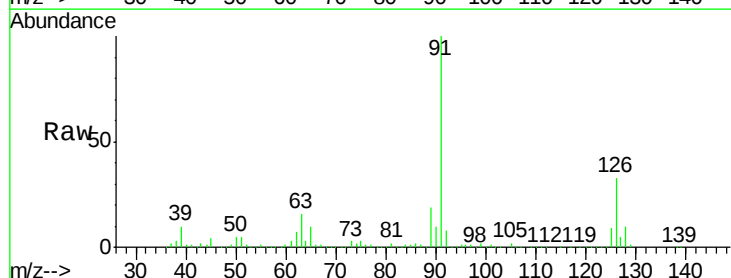
Acq: 7 May 2019 17:35

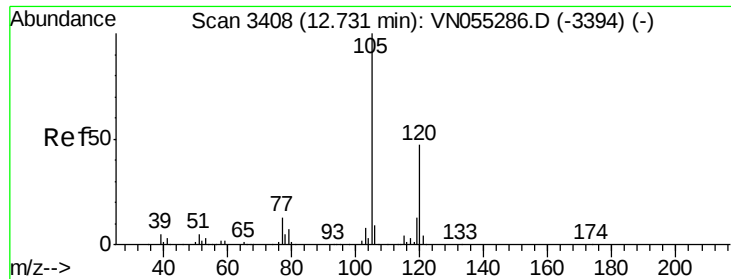
Tgt Ion: 91 Resp: 658802

Ion Ratio Lower Upper

91 100

126 32.2 16.6 49.7





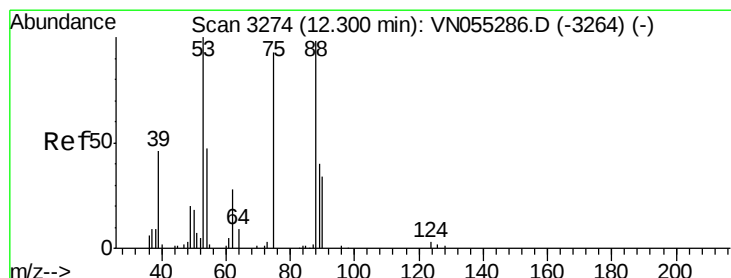
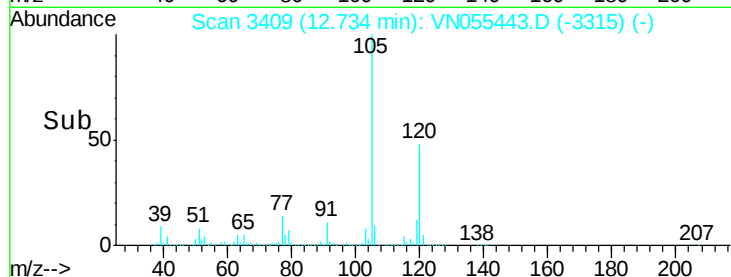
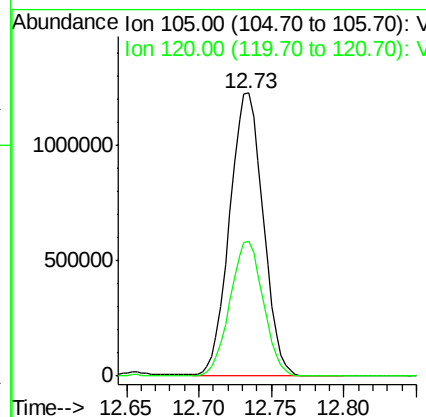
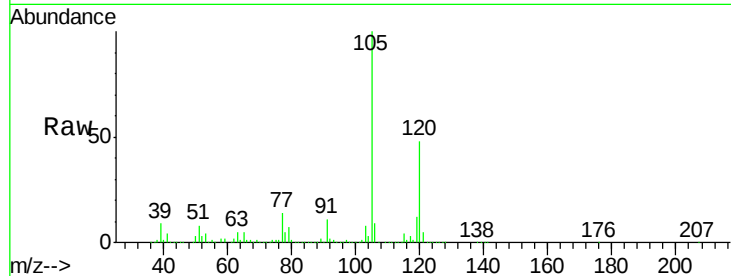
#80
 1,3,5-Trimethylbenzene
 Concen: 109.754 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-PZ-W4-5MSD

Tot Ion:105 Resp: 1962926
 Ion Ratio Lower Upper
 105 100
 120 47.1 23.4 70.0

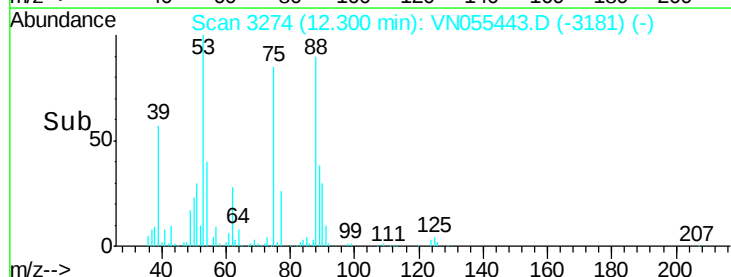
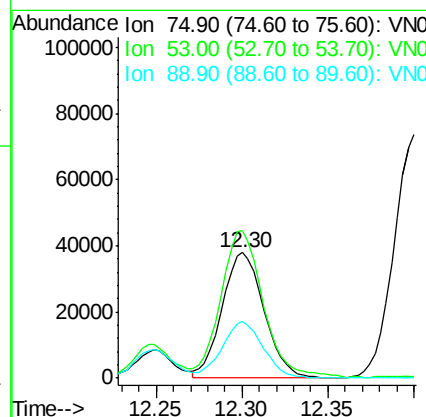
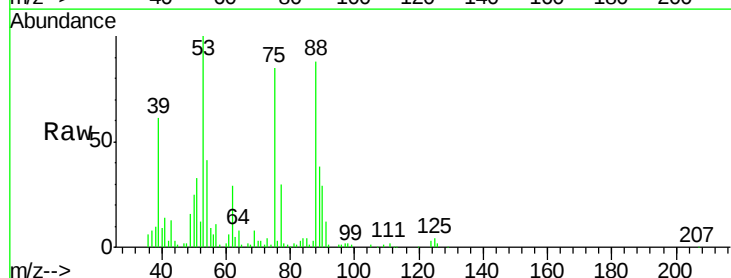
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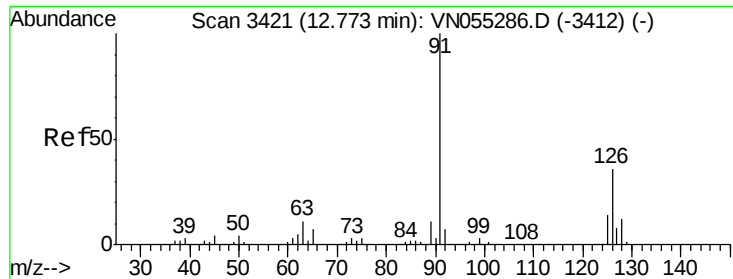
MMDadoda
 5/8/2019 10:22:27 AM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 54.023 ug/l
 RT: 12.30 min Scan# 3274
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Tgt Ion: 75 Resp: 65034
 Ion Ratio Lower Upper
 75 100
 53 117.1 86.3 129.5
 89 44.2 34.6 51.8





#82

4-Chlorotoluene

Concen: 47.106 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion: 91 Resp: 641837

Ion Ratio Lower Upper

91 100

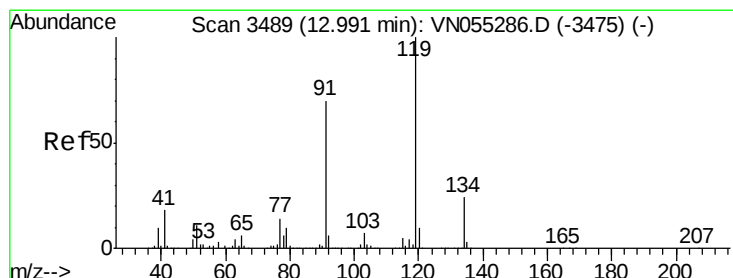
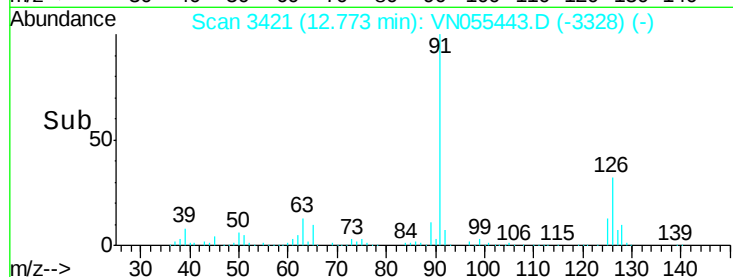
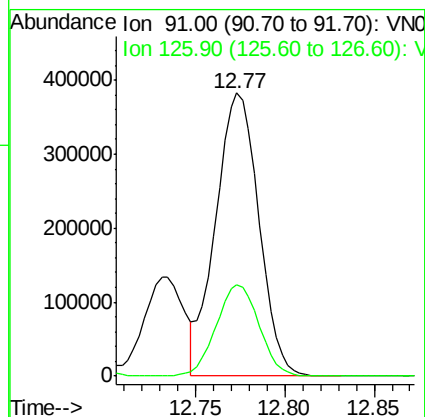
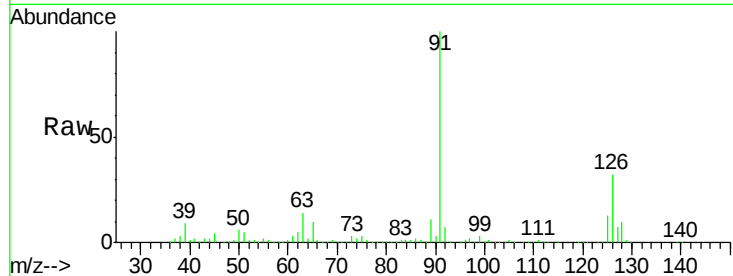
126 32.2 16.6 49.7

Manual Integrations

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#83

tert-Butylbenzene

Concen: 64.750 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

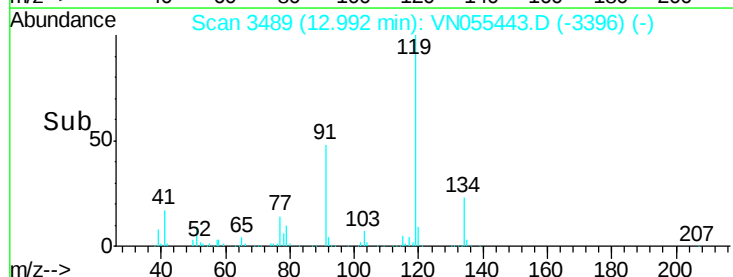
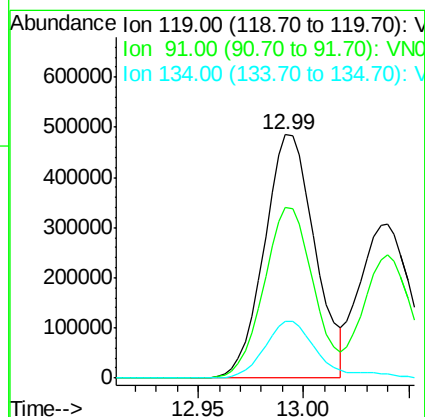
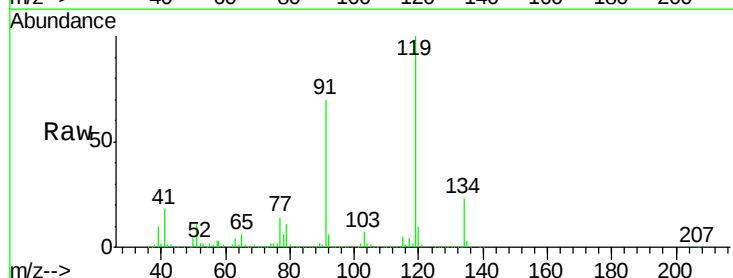
Tgt Ion: 119 Resp: 808808

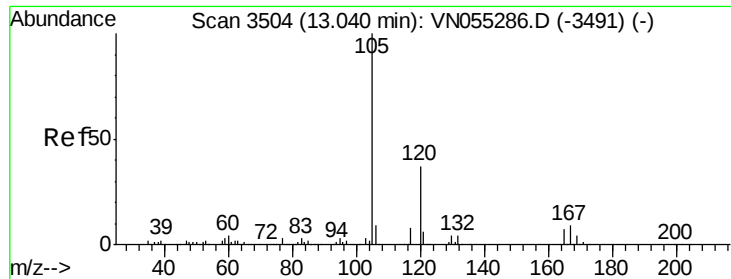
Ion Ratio Lower Upper

119 100

91 68.6 34.3 102.9

134 24.8 13.1 39.3





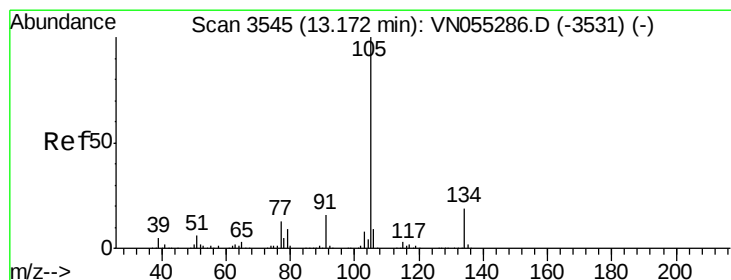
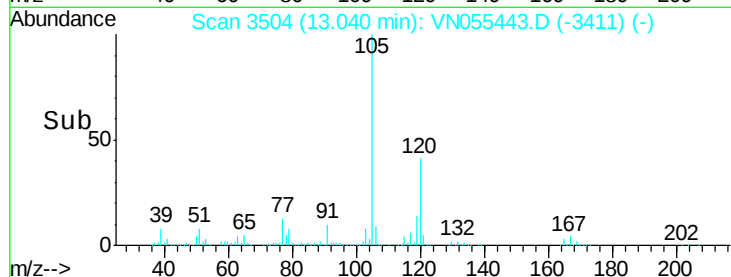
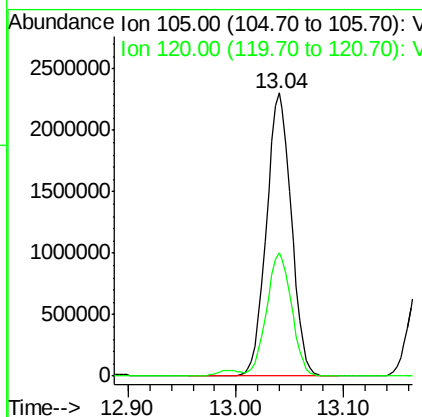
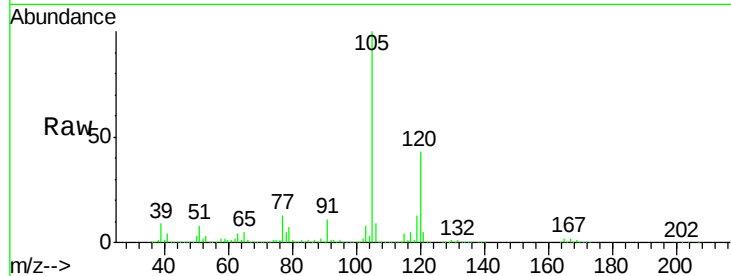
#84
1,2,4-Trimethylbenzene
Concen: 230.041 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion:105 Resp: 3679536
Ion Ratio Lower Upper
105 100
120 43.7 22.1 66.5

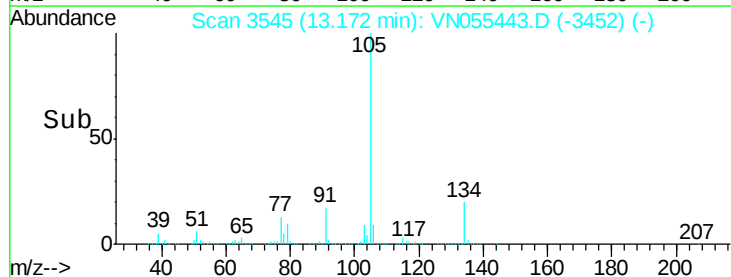
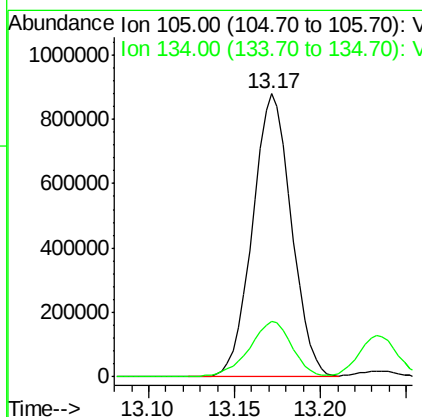
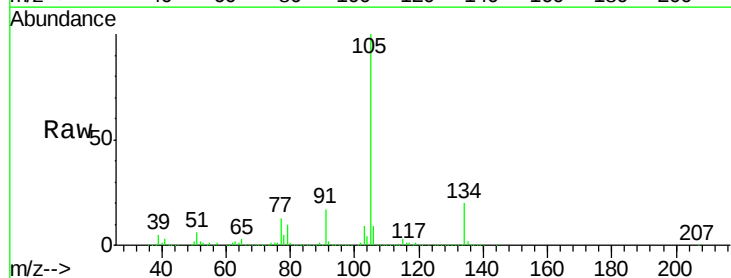
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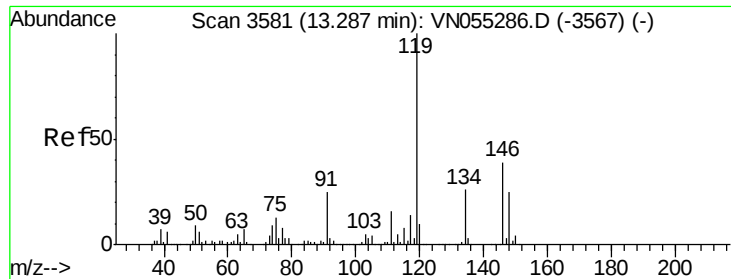
MMDadoda
5/8/2019 10:22:27 AM



#85
sec-Butylbenzene
Concen: 70.571 ug/l
RT: 13.17 min Scan# 3545
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion:105 Resp: 1371838
Ion Ratio Lower Upper
105 100
134 21.7 9.6 28.8





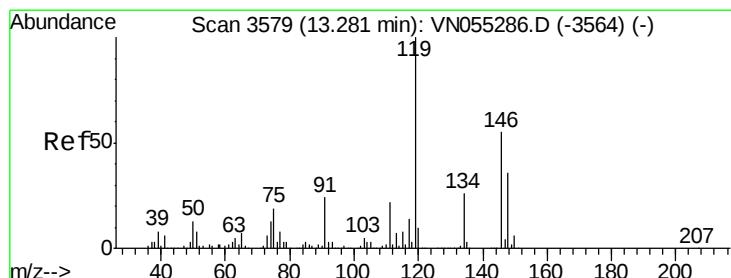
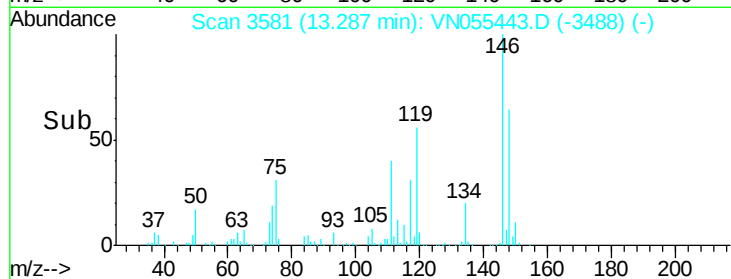
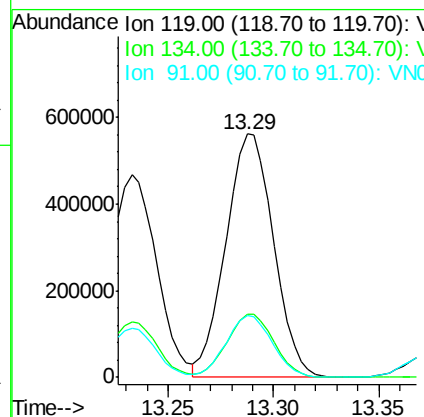
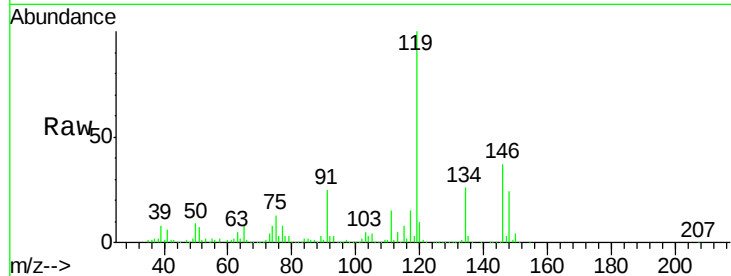
#86
 p-Isopropyltoluene
 Concen: 55.036 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-PZ-W4-5MSD

Tot Ion	Ratio	Resp	Lower	Upper
119	100	879320		
134	25.6	13.0	38.9	
91	24.5	12.2	36.6	

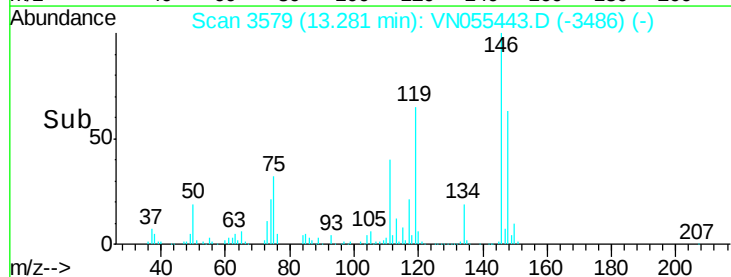
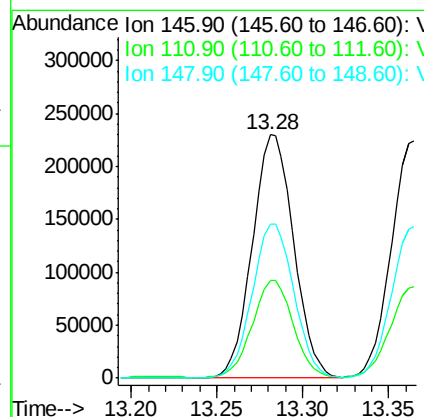
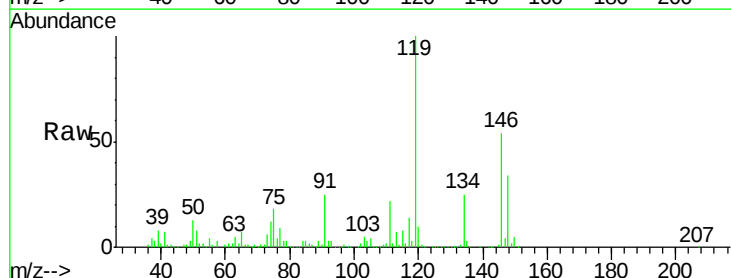
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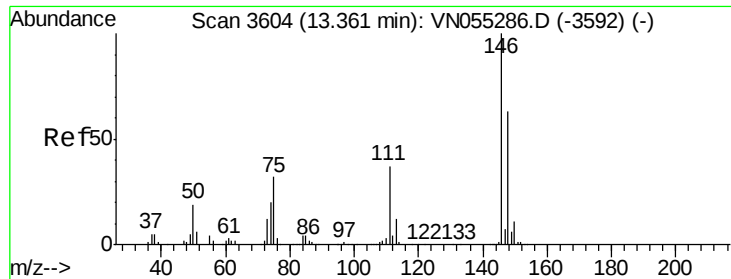
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#87
 1,3-Dichlorobenzene
 Concen: 50.276 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	383799		
111	38.9	20.3	60.8	
148	63.9	32.5	97.5	





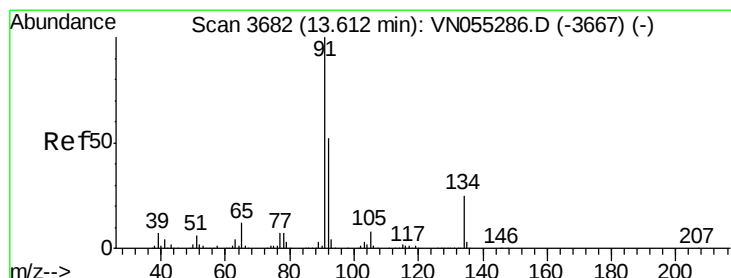
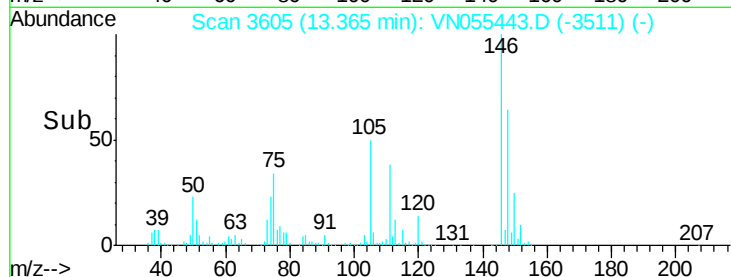
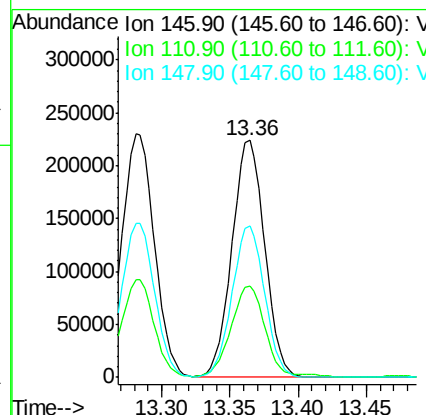
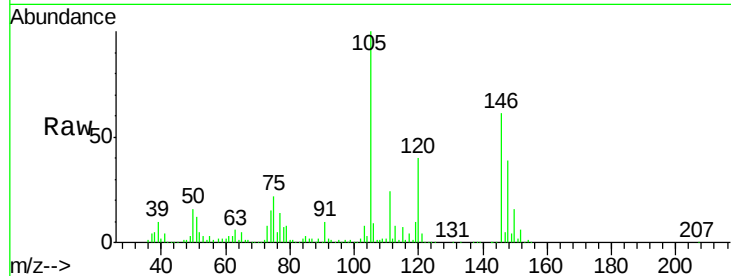
#88
 1,4-Dichlorobenzene
 Concen: 51.969 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Instrument :
 MSVOA_N
 ClientSampled :
 EP1-PZ-W4-5MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.5	58.5
148	63.5	32.5	97.4

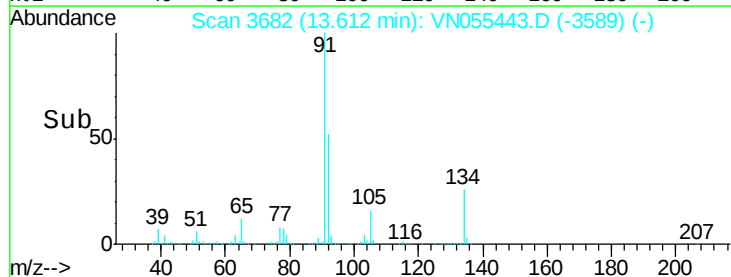
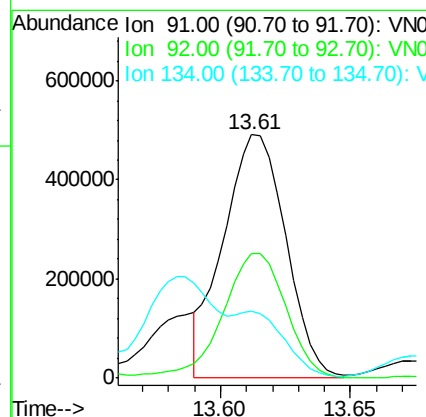
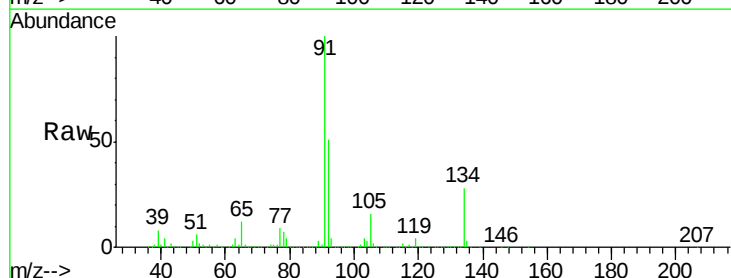
Manual Integrations
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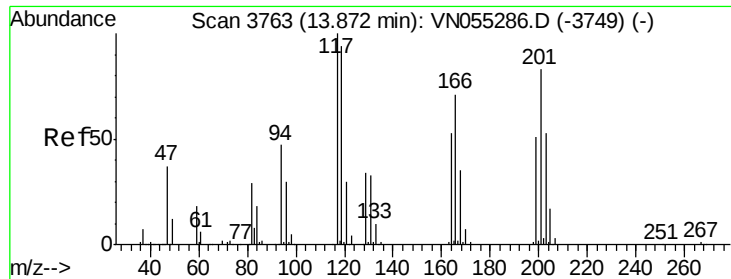
MMDadoda
 5/8/2019 10:22:27 AM



#89
 n-Butylbenzene
 Concen: 72.148 ug/l m
 RT: 13.61 min Scan# 3682
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.5	26.1	78.3
134	0.0	12.4	37.4#





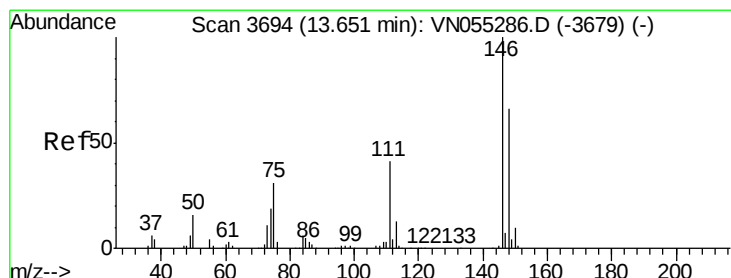
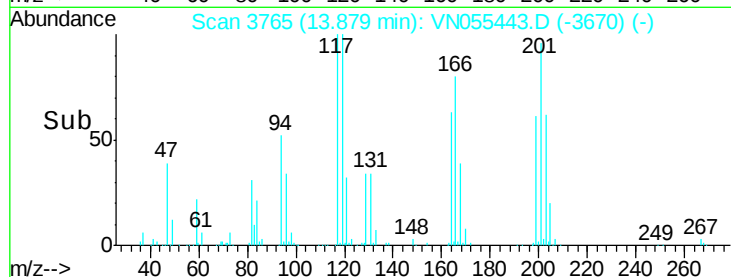
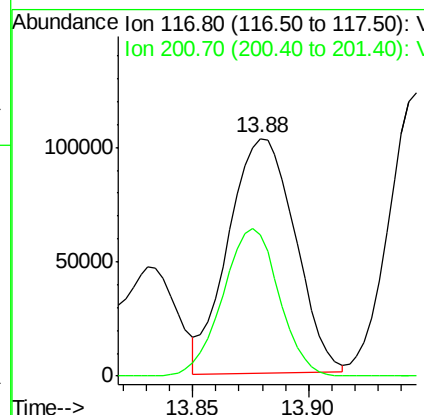
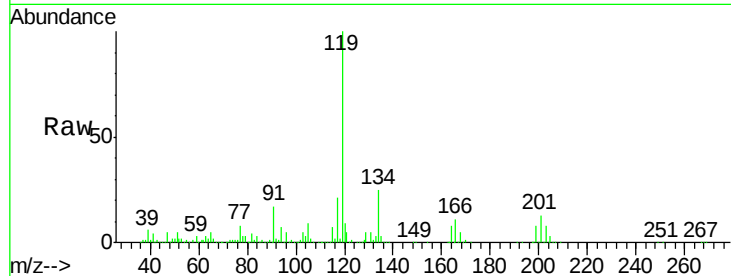
#90
Hexachloroethane
Concen: 81.977 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.01 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
EP1-PZ-W4-5MSD

Tot Ion	Ratio	Lower	Upper
117	100		
201	53.2	41.9	125.8

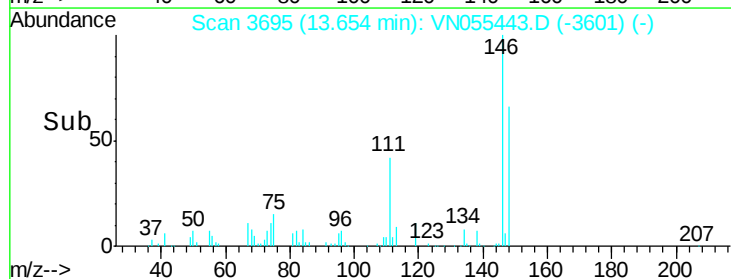
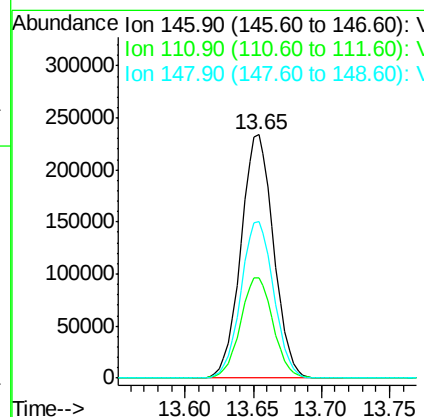
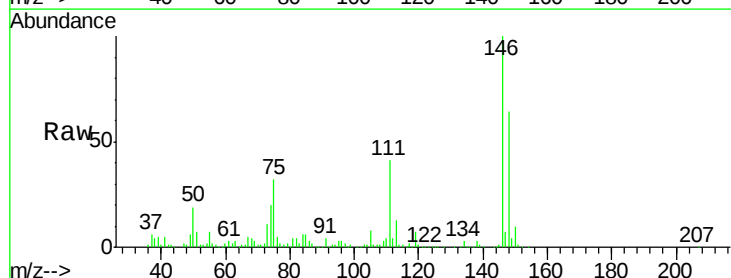
Manual Integrations
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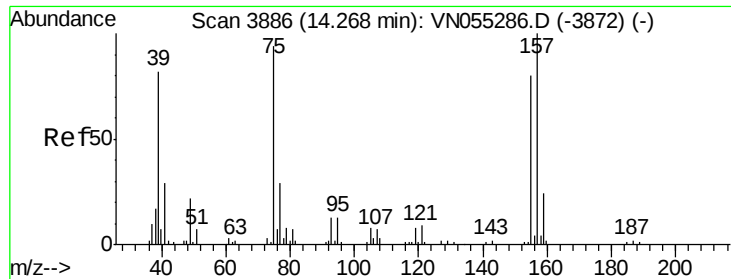
MMDadoda
5/8/2019 10:22:27 AM



#91
1,2-Dichlorobenzene
Concen: 51.222 ug/l
RT: 13.65 min Scan# 3695
Delta R.T. 0.00 min
Lab File: VN055443.D
Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.3	61.0
148	64.7	32.4	97.2





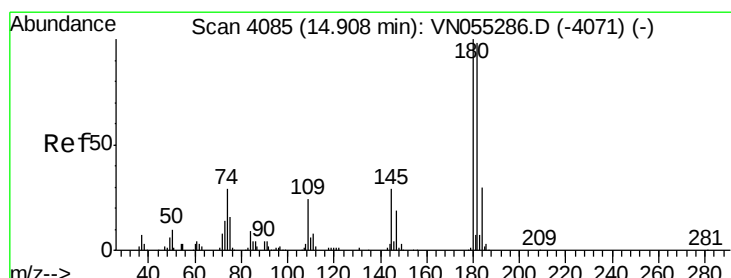
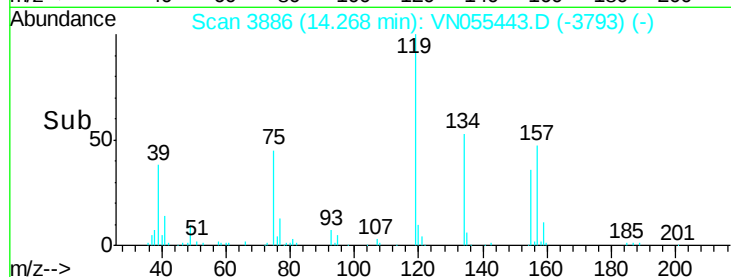
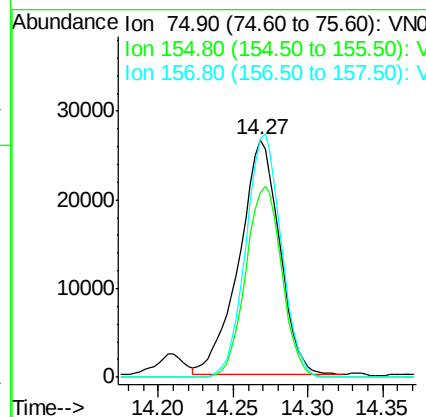
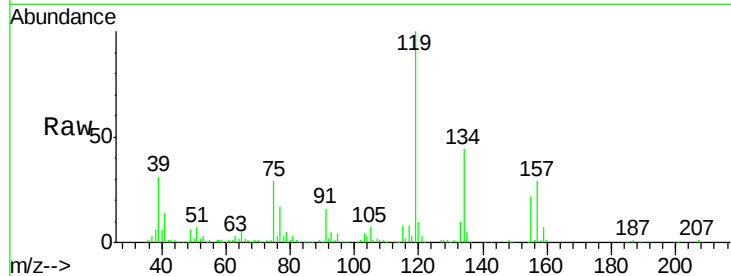
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 82.853 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-PZ-W4-5MSD

Tot Ion	Ratio	Lower	Upper
75	100		
155	72.5	41.5	124.6
157	90.9	54.0	162.2

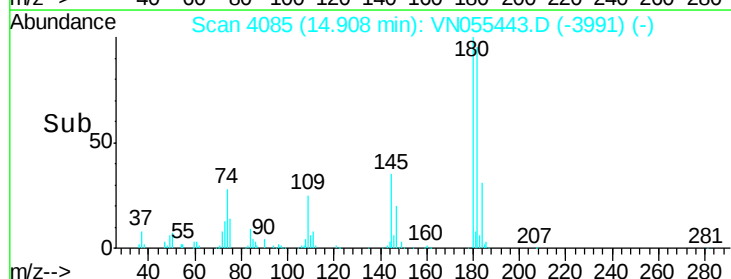
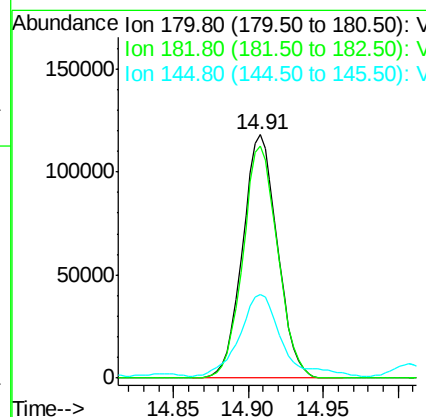
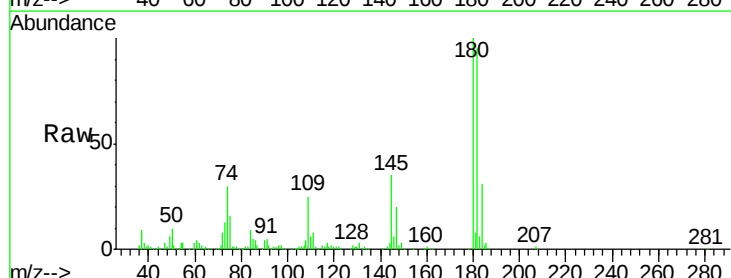
Manual Integrations
 APPROVED

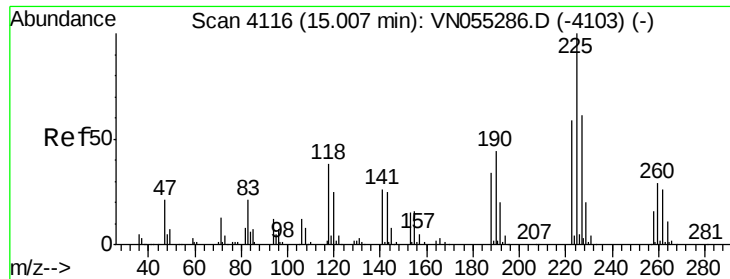
MMDadoda
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#93
 1,2,4-Trichlorobenzene
 Concen: 63.071 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	48.3	144.9
145	43.5	14.2	42.6#





#94

Hexachlorobutadiene

Concen: 59.359 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Instrument :

MSVOA_N

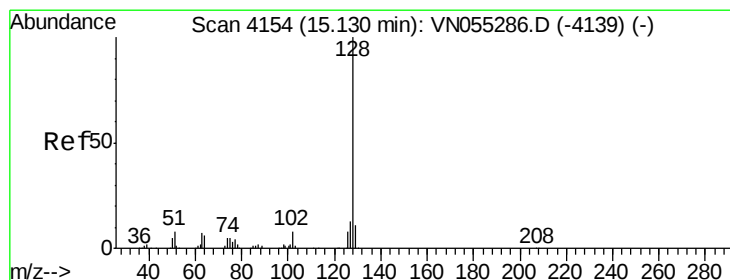
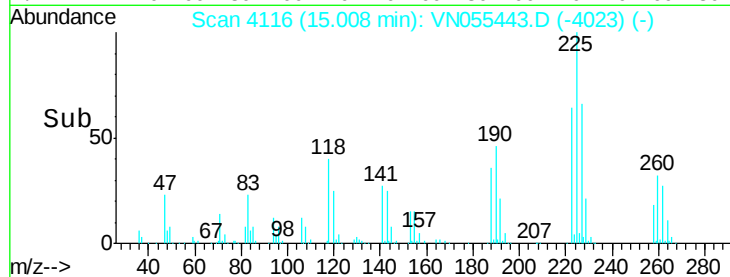
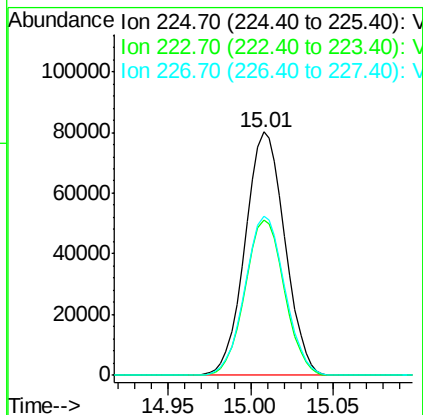
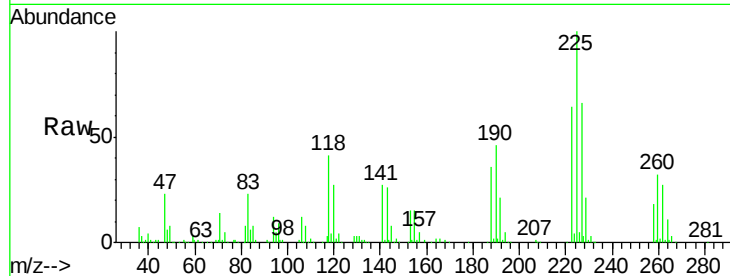
ClientSampleId :

EP1-PZ-W4-5MSD

Tot Ion:	225	Resp:	133950
Ion Ratio		Lower	Upper
225	100		
223	63.3	30.3	90.8
227	65.5	30.9	92.7

Manual Integrations
APPROVED

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5/8/2019 10:22:27 AM



#95

Naphthalene

Concen: 67.238 ug/l

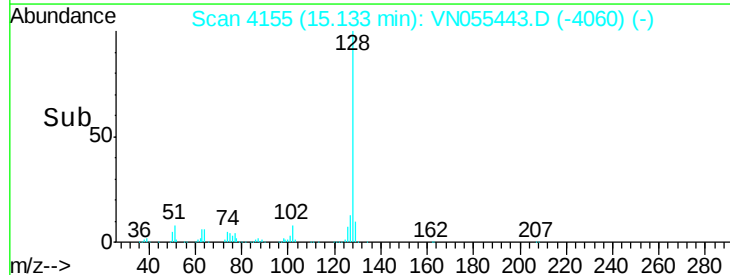
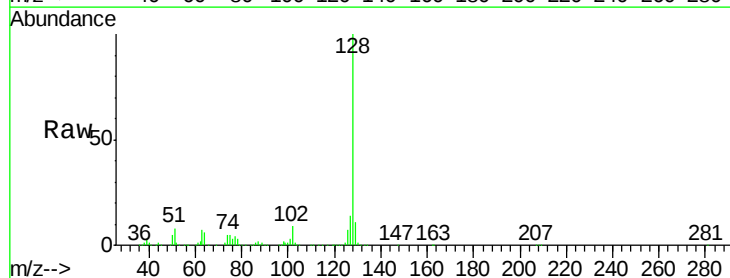
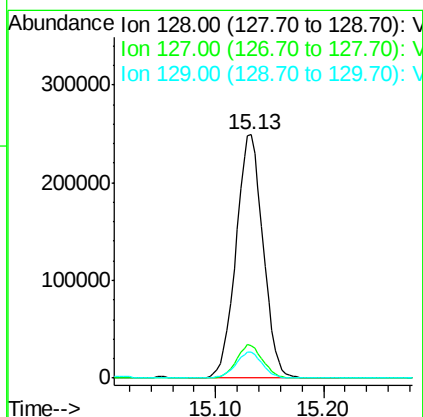
RT: 15.13 min Scan# 4155

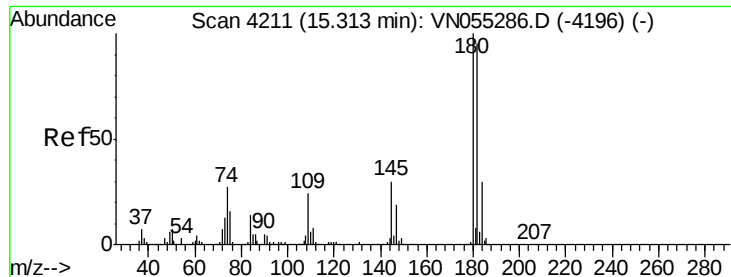
Delta R.T. 0.00 min

Lab File: VN055443.D

Acq: 7 May 2019 17:35

Tgt Ion:	128	Resp:	434154
Ion Ratio		Lower	Upper
128	100		
127	13.4	10.7	16.1
129	10.4	8.6	13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 65.934 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN055443.D
 Acq: 7 May 2019 17:35

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-PZ-W4-5MSD

Tot Ion	Ratio	Resp Lower	Upper
180	100		
182	94.6	48.3	144.9
145	33.3	15.2	45.6

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 10:22:27 AM

