

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056019.D
 Acq On : 5 Jun 2019 20:33
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 6/6/2019 10:19:43 AM

Quant Time: Jun 06 03:57:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 03:18:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	52992	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	295160	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	266098	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	97665	28.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.70%
60) 4-Bromofluorobenzene	12.40	95	124533	30.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.50%
63) Toluene-d8	10.09	98	351893	28.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	466604	187.127	ug/l 98
3) Chloromethane	2.06	50	531239	159.734	ug/l 99
4) Vinyl Chloride	2.18	62	538043	157.413	ug/l 99
5) Bromomethane	2.52	94	275551	134.178	ug/l 98
6) Chloroethane	2.67	64	284438	143.120	ug/l 95
7) Trichlorofluoromethane	3.00	101	654854	152.831	ug/l 96
8) Diethyl Ether	3.40	74	273839	146.987	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	402377	149.860	ug/l 99
10) 1,1-Dichloroethene	3.72	96	423218	151.799	ug/l 96
11) Methyl Iodide	3.93	142	691468	170.495	ug/l 99
12) Methyl Acetate	4.32	43	468624	137.867	ug/l 100
13) Acrolein	3.60	56	122315	294.842	ug/l 100
14) Acrylonitrile	4.99	53	1138075	740.633	ug/l 99
15) Acetone	3.82	58	353840	728.108	ug/l 96
16) Carbon Disulfide	4.03	76	1107864	145.065	ug/l 100
17) Allyl chloride	4.31	41	672152	138.226	ug/l 97
18) Methylene Chloride	4.54	84	479078	149.884	ug/l 99
19) trans-1,2-Dichloroethene	5.03	96	449062	149.795	ug/l 96
20) Diisopropyl ether	5.95	45	1364648	141.970	ug/l 95
21) 1,1-Dichloroethane	5.84	63	777202	142.948	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	522677	149.448	ug/l 100
23) tert-Butyl Alcohol	4.82	59	426259	648.265	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	1331586	142.586	ug/l 97
25) Chloroform	7.37	83	779695	144.623	ug/l 99
26) Cyclohexane	7.65	56	724753	144.012	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	602813	147.480	ug/l 99
30) 2-Butanone	6.84	43	1564396	720.330	ug/l 99
31) 2,2-Dichloropropane	6.82	77	560541	123.313	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	670942	140.478	ug/l 99
33) Carbon Tetrachloride	7.77	117	586025	139.123	ug/l 99
34) Benzene	8.04	78	1868064	146.953	ug/l # 91
35) Methacrylonitrile	7.17	41	269713	133.267	ug/l 97
36) 1,2-Dichloroethane	8.12	62	576517	140.245	ug/l 99
37) Trichloroethene	8.83	130	530077	149.016	ug/l 98
38) Methylcyclohexane	9.08	83	763731	147.525	ug/l 97
39) 1,2-Dichloropropane	9.12	63	486195	143.493	ug/l 96
40) Dibromomethane	9.21	93	321244	145.930	ug/l 99

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Quant Time: Jun 06 03:57:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 03:18:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	609899	139.716	ug/l	99
42) Vinyl Acetate	5.89	43	5775743	697.474	ug/l	100
43) Ethyl Acetate	6.93	43	584957	138.062	ug/l	100
44) Isopropyl Acetate	8.17	43	976319	141.010	ug/l	98
45) 1,4-Dioxane	9.20	88	205885	3064.798	ug/l	93
46) Methyl methacrylate	9.20	41	474717	146.504	ug/l	99
47) n-amyl Acetate	12.07	43	832370	145.820	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	687419	144.256	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	766454	144.733	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	482103	150.415	ug/l	99
51) Ethyl methacrylate	10.43	69	753802	148.521	ug/l	100
52) 1,3-Dichloropropane	10.71	76	780060	148.157	ug/l	99
53) Dibromochloromethane	10.90	129	531437	146.626	ug/l	98
54) 1,2-Dibromoethane	11.00	107	512550	154.556	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	1437123	741.855	ug/l	99
56) Bromoform	12.13	173	408459	141.294	ug/l #	98
58) 4-Methyl-2-Pentanone	9.99	43	2977125	692.134	ug/l	100
59) 2-Hexanone	10.75	43	2164201	702.513	ug/l	98
61) Tetrachloroethene	10.63	164	527516	146.002	ug/l	99
62) Toluene	10.15	91	2087176	146.254	ug/l	99
64) Chlorobenzene	11.43	112	1308309	151.255	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	486445	143.013	ug/l	99
66) Ethyl Benzene	11.51	91	2290521	147.651	ug/l	100
67) m/p-Xylenes	11.62	106	1778098	301.508	ug/l	99
68) o-Xylene	11.95	106	862151	148.096	ug/l	99
69) Styrene	11.96	104	1487457	155.365	ug/l	99
70) Isopropylbenzene	12.25	105	2229572	146.258	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	671713	143.897	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	592181m	148.215	ug/l	
73) Bromobenzene	12.53	156	621548	154.180	ug/l	99
74) n-propylbenzene	12.59	91	2516597	154.223	ug/l	100
75) 2-Chlorotoluene	12.67	91	1488812	149.036	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	1894438	150.828	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	207898	139.236	ug/l	91
78) 4-Chlorotoluene	12.77	91	1498294	158.916	ug/l	100
79) tert-butylbenzene	12.99	119	1616315	146.605	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	1882418	151.624	ug/l	100
81) sec-Butylbenzene	13.17	105	2139421	152.586	ug/l	99
82) p-Isopropyltoluene	13.29	119	1998051	155.556	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	1049007	166.966	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	1030494	172.834	ug/l	100
85) n-Butylbenzene	13.61	91	1643685	166.550	ug/l	99
86) Hexachloroethane	13.87	117	330916	137.520	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	1022456	161.607	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	123567	146.949	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	643072	192.144	ug/l	98
90) Hexachlorobutadiene	15.01	225	354921	141.755	ug/l	100
91) Naphthalene	15.13	128	1713623	188.008	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	643889	183.697	ug/l	99

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ALS Vial : 28 Sample Multiplier: 1

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MSVOA_N
ClientSampleId :
VSTDICC150

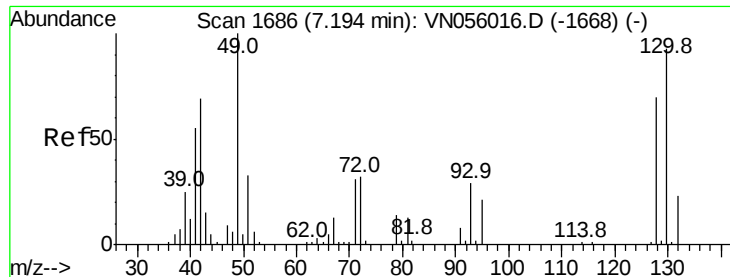
Manual Integrations
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QLast Update : Thu Jun 06 03:18:25 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



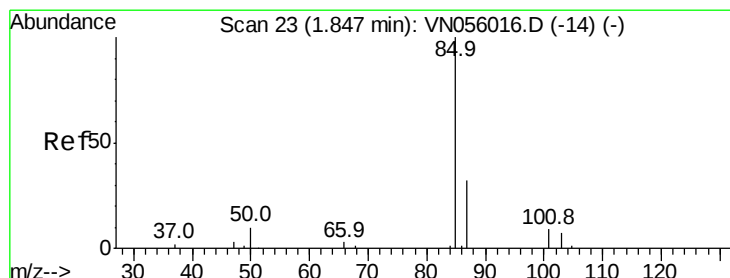
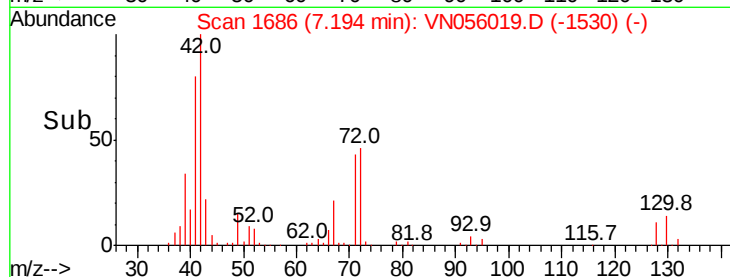
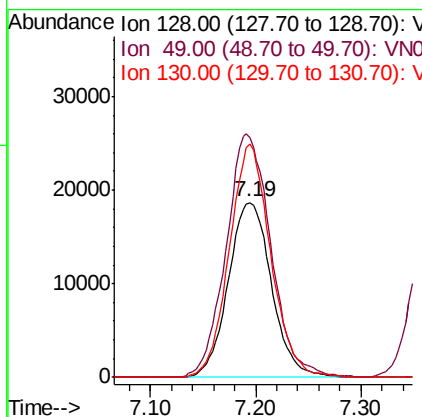
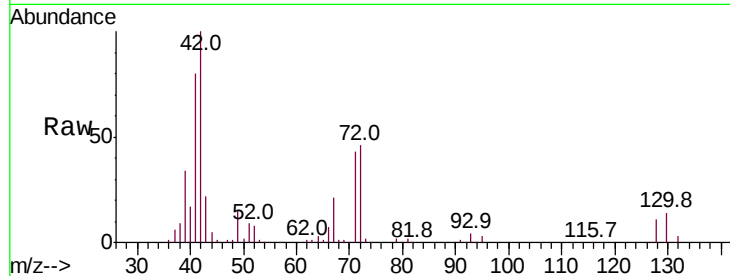
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
128	100		
49	144.9	0.0	355.8
130	128.3	0.0	326.3

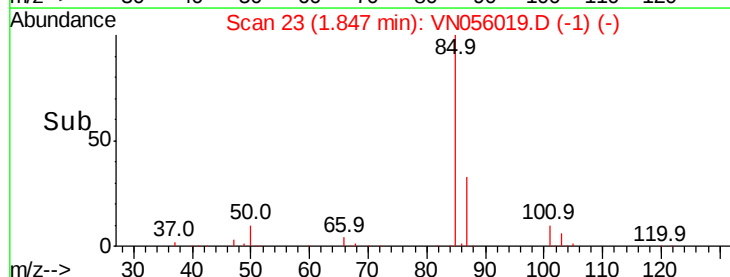
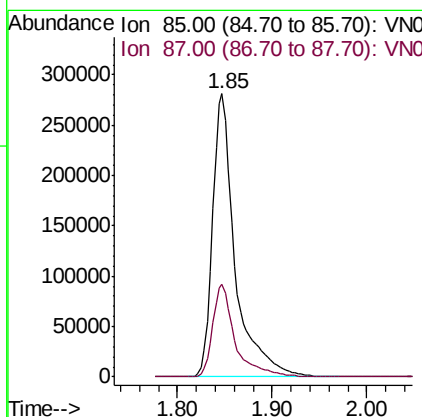
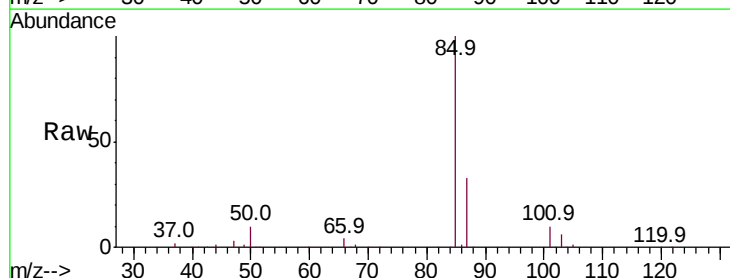
Manual Integrations
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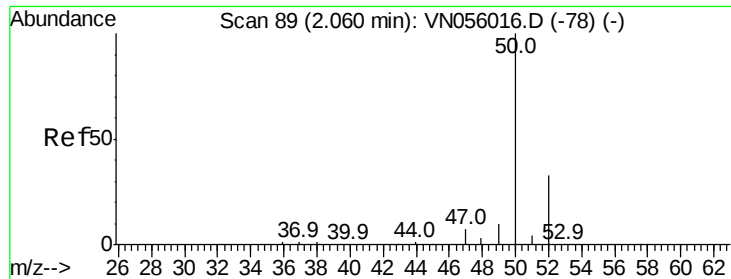
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#2
 Dichlorodifluoromethane
 Concen: 187.127 ug/l
 RT: 1.85 min Scan# 23
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.7	15.9	47.7





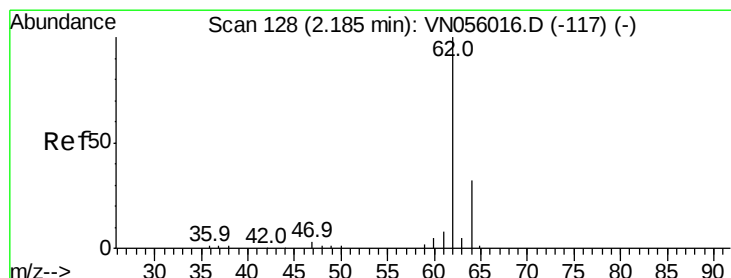
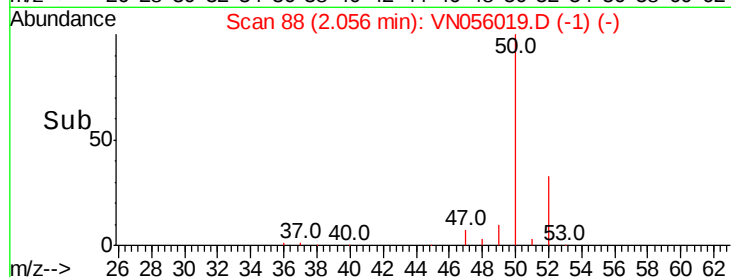
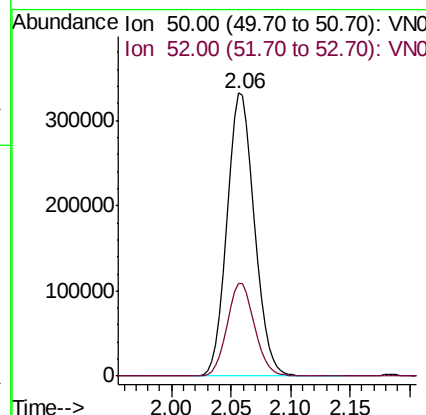
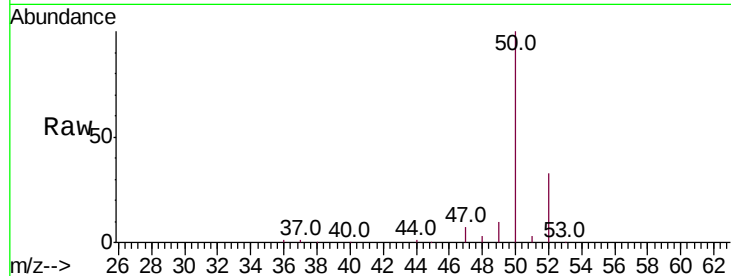
#3
Chloromethane
Concen: 159.734 ug/l
RT: 2.06 min Scan# 88
Delta R.T. -0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.7	40.1

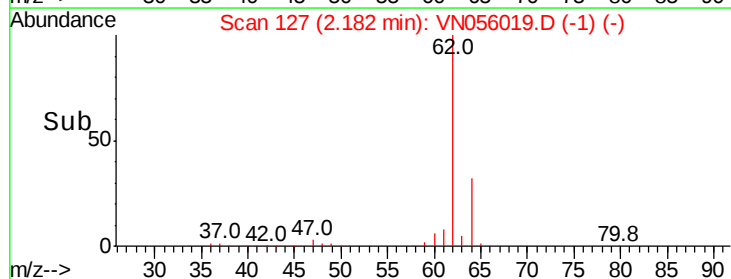
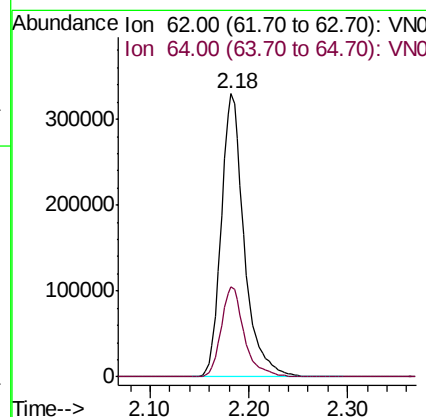
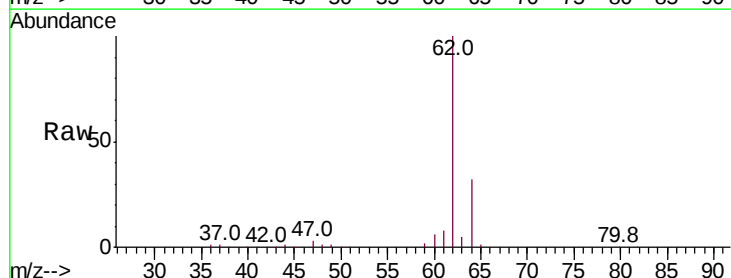
Manual Integrations
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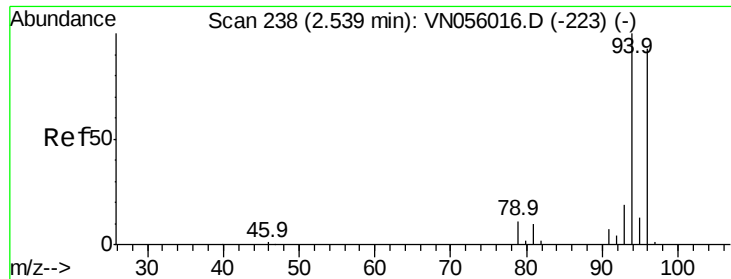
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#4
Vinyl Chloride
Concen: 157.413 ug/l
RT: 2.18 min Scan# 127
Delta R.T. -0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.8	38.8





#5

Bromomethane

Concen: 134.178 ug/l

RT: 2.52 min Scan# 231

Delta R.T. -0.02 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 27551

Ion Ratio Lower Upper

94 100

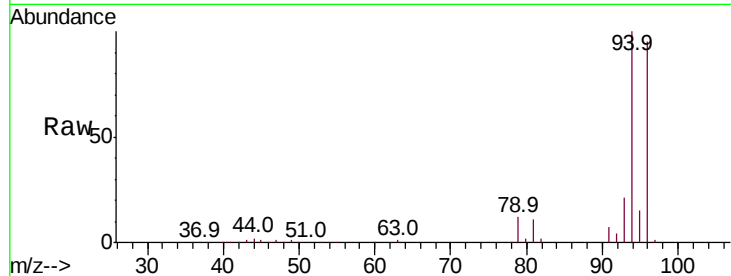
96 94.9 74.1 111.1

Manual Integrations

APPROVED

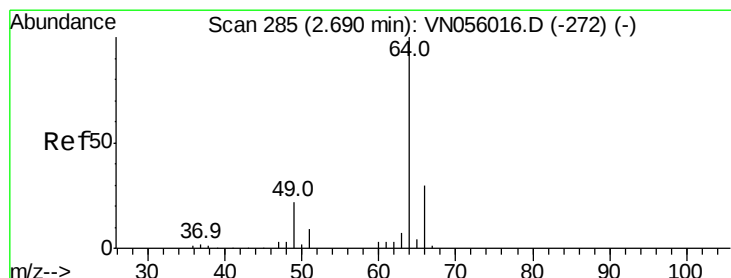
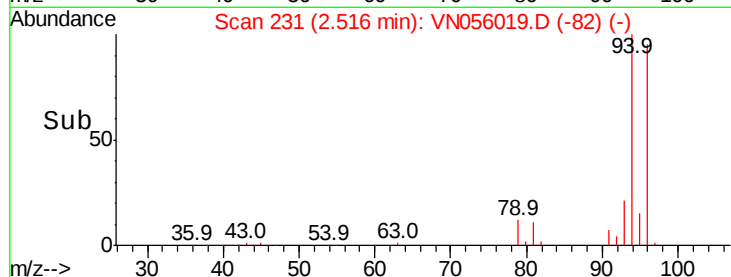
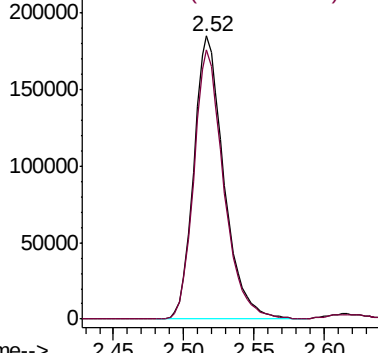
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 143.120 ug/l

RT: 2.67 min Scan# 278

Delta R.T. -0.02 min

Lab File: VN056019.D

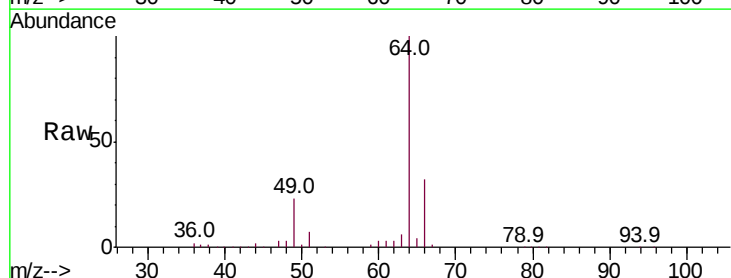
Acq: 5 Jun 2019 20:33

Tgt Ion: 64 Resp: 284438

Ion Ratio Lower Upper

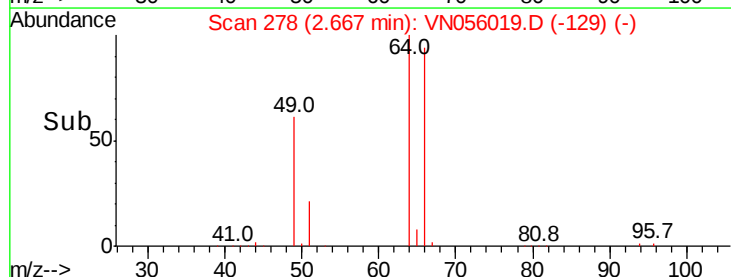
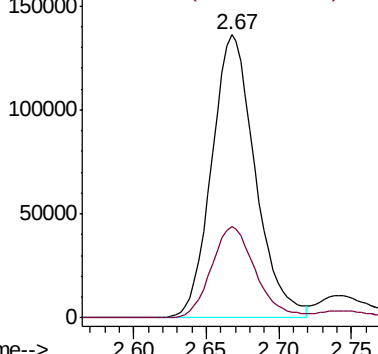
64 100

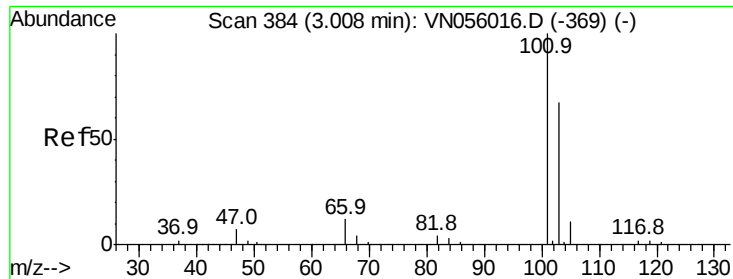
66 32.2 23.7 35.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

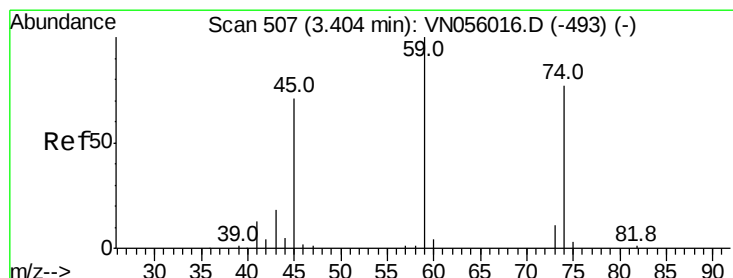
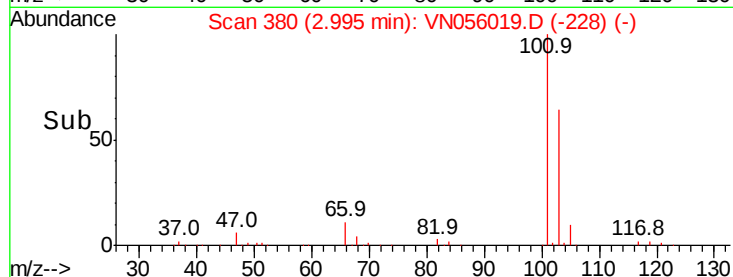
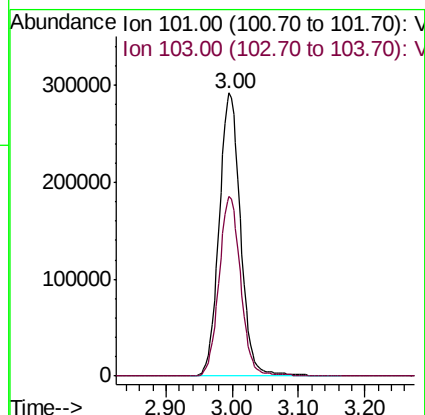
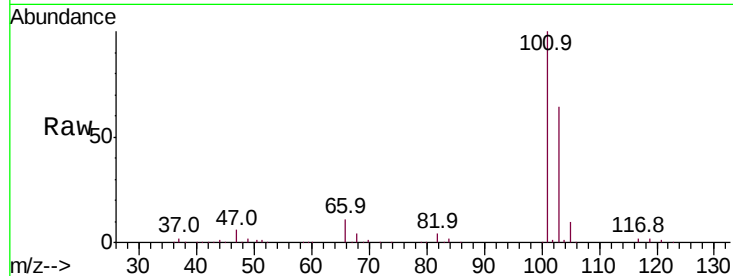
Trichlorofluoromethane
Concen: 152.831 ug/l
RT: 3.00 min Scan# 380
Delta R.T. -0.01 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.6	53.4	80.0

Manual Integrations
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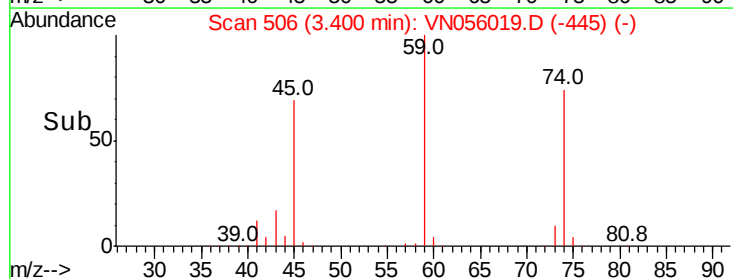
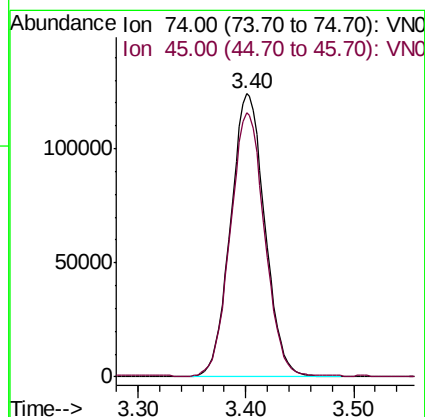
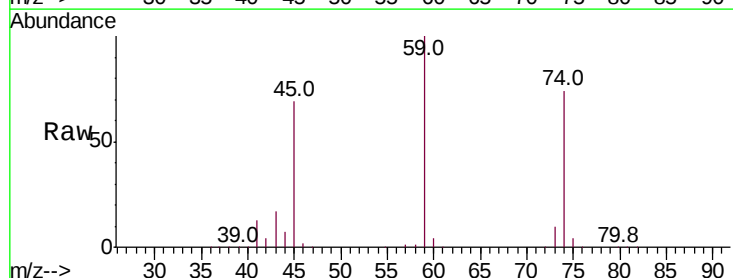
MMDadoda
6/6/2019 10:19:43 AM

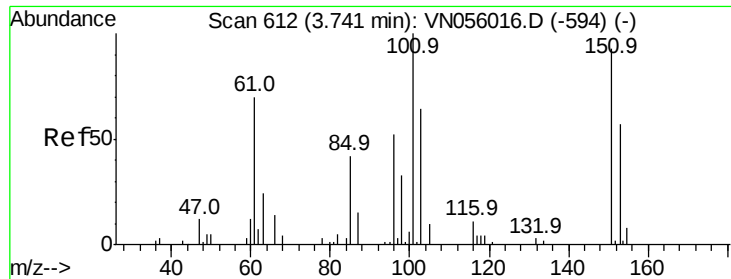


#8

Diethyl Ether
Concen: 146.987 ug/l
RT: 3.40 min Scan# 506
Delta R.T. -0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.5	18.8	169.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 149.860 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.01 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

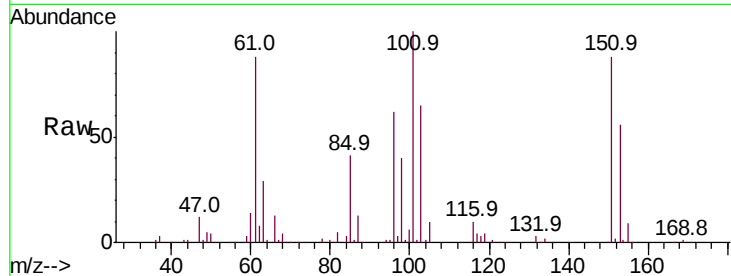
ClientSampleId :

VSTDIC150

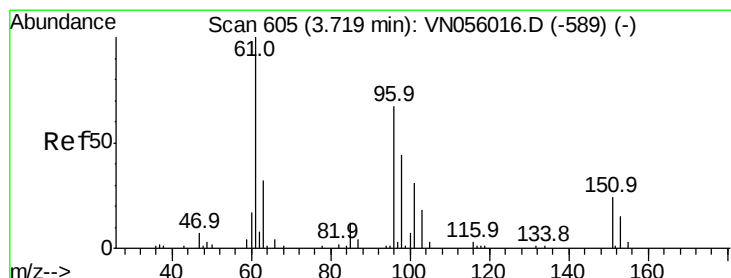
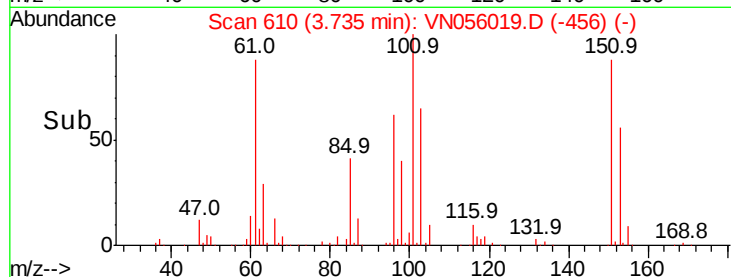
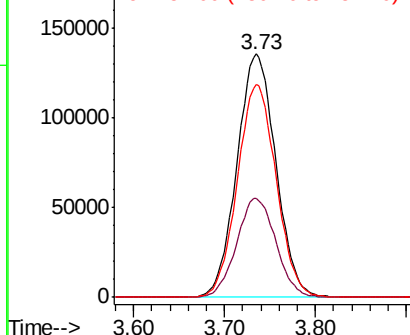
Tot Ion:	101	Resp:	402377
Ion Ratio	Lower	Upper	
101	100		
85	41.0	0.0	82.0
151	87.6	0.0	177.0

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Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VNO
Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 151.799 ug/l

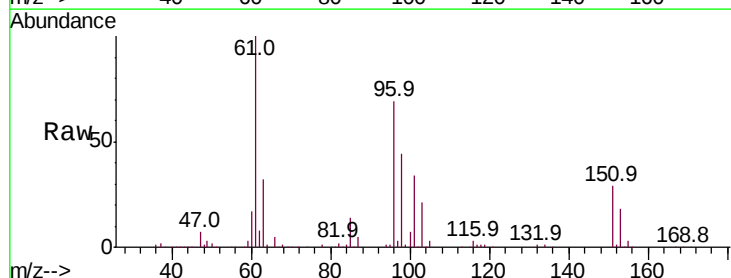
RT: 3.72 min Scan# 604

Delta R.T. -0.00 min

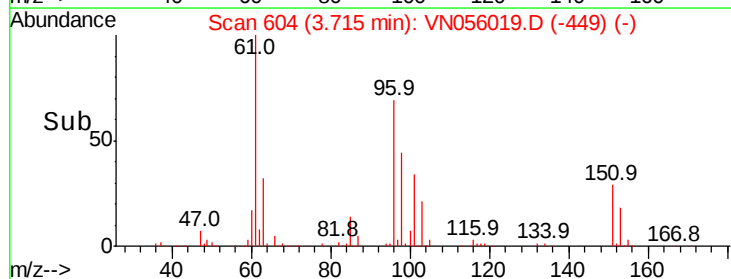
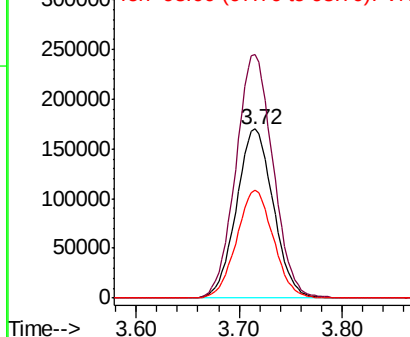
Lab File: VN056019.D

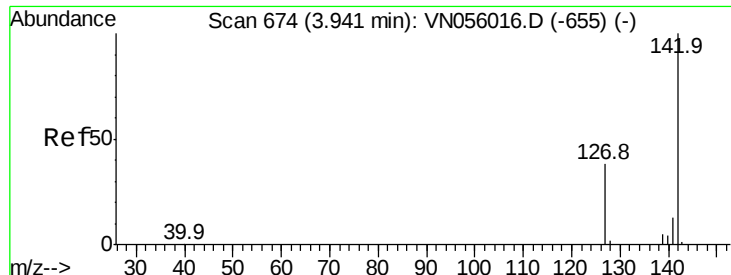
Acq: 5 Jun 2019 20:33

Tgt Ion:	96	Resp:	423218
Ion Ratio	Lower	Upper	
96	100		
61	144.1	119.7	179.5
98	63.7	52.3	78.5



Abundance Ion 96.00 (95.70 to 96.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 98.00 (97.70 to 98.70): VNO





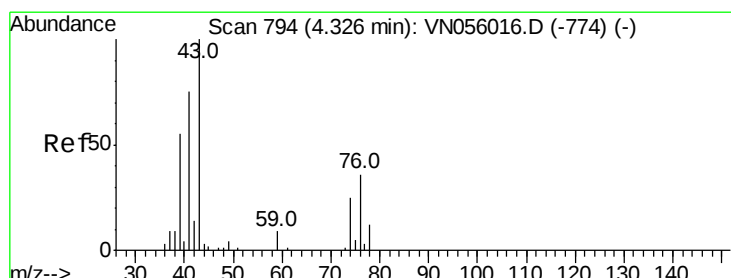
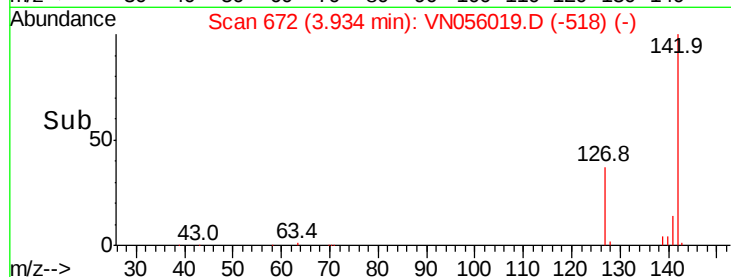
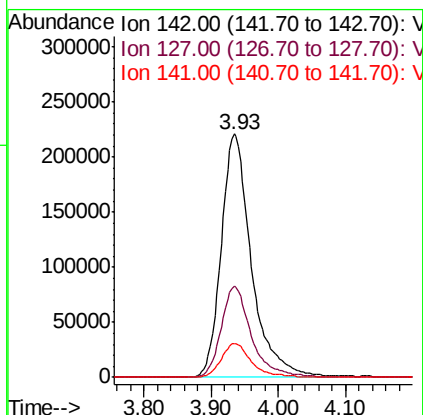
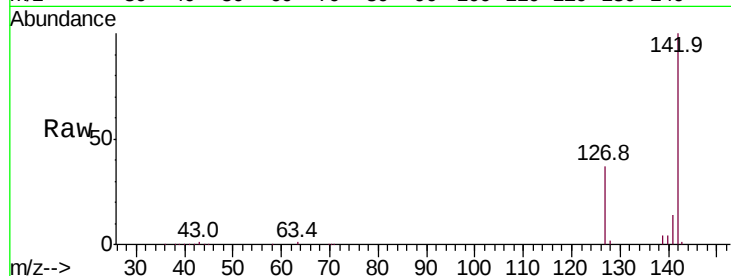
#11
Methyl Iodide
Concen: 170.495 ug/l
RT: 3.93 min Scan# 672
Delta R.T. -0.01 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
142	100		
127	37.4	19.0	57.0
141	13.9	6.7	20.0

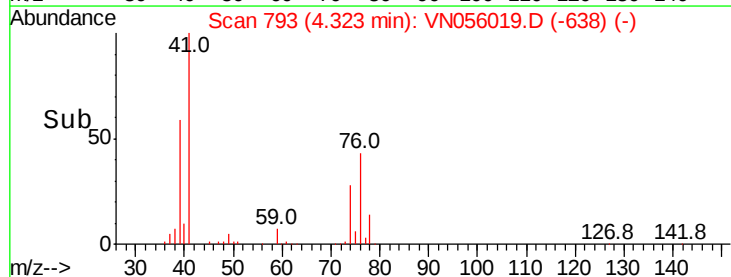
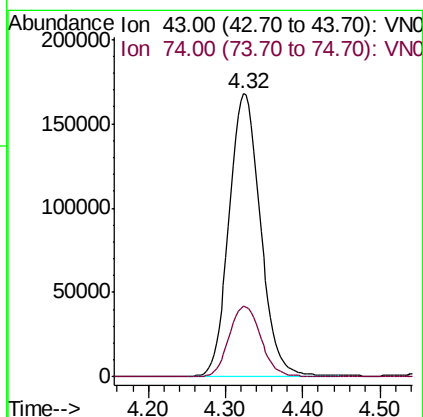
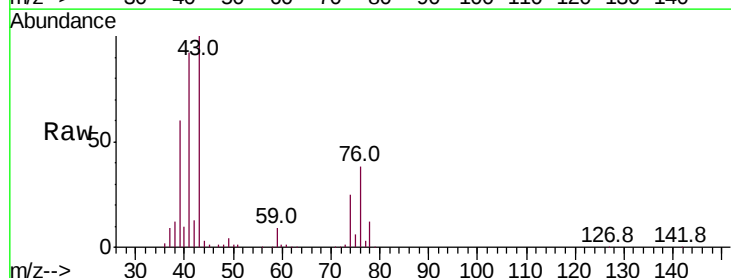
Manual Integrations
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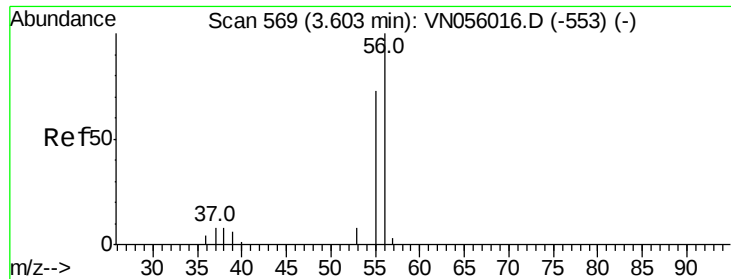
MMDadoda
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#12
Methyl Acetate
Concen: 137.867 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.9	19.9	29.9





#13

Acrolein

Concen: 294.842 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 122315

Ion Ratio Lower Upper

56 100

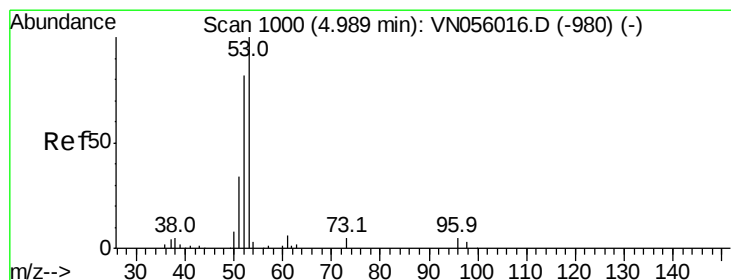
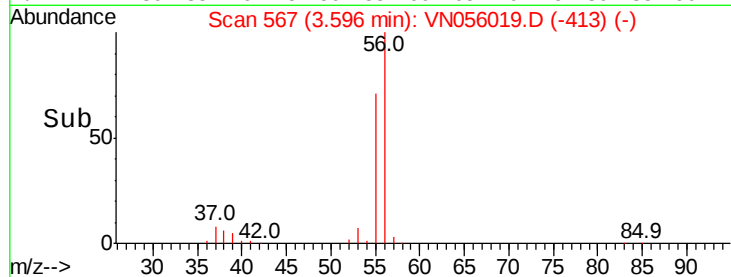
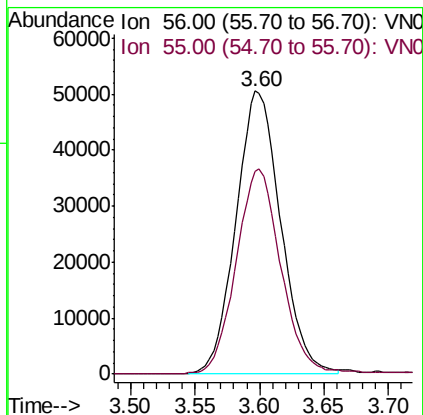
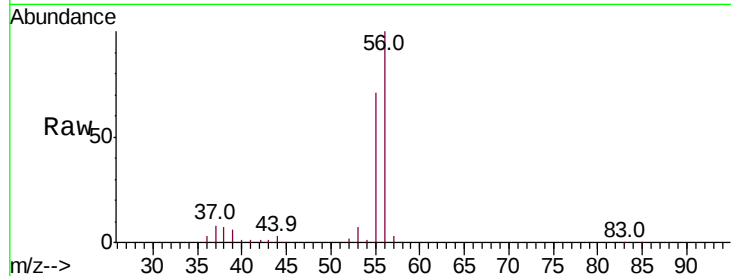
55 72.1 57.9 86.9

Manual Integrations

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#14

Acrylonitrile

Concen: 740.633 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

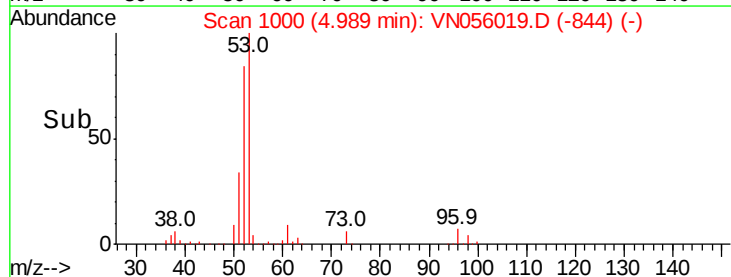
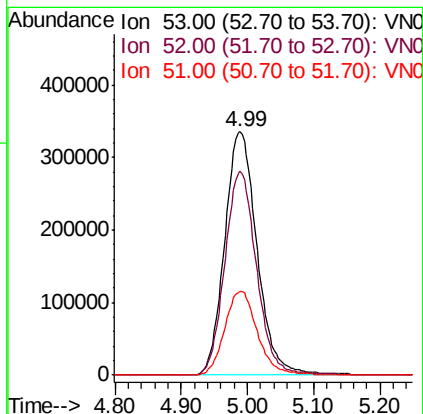
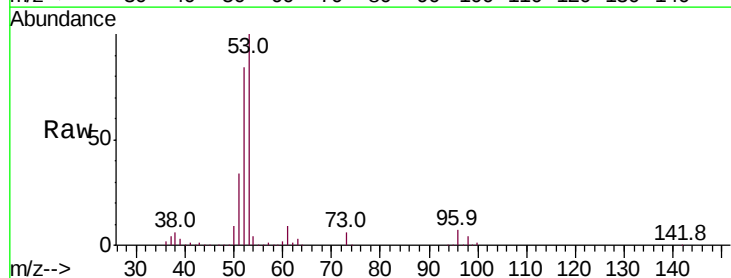
Tgt Ion: 53 Resp: 1138075

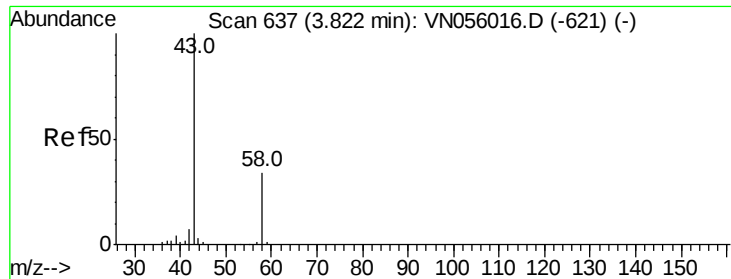
Ion Ratio Lower Upper

53 100

52 82.0 40.8 122.2

51 35.0 17.3 52.0





#15

Acetone

Concen: 728.108 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 58 Resp: 353840

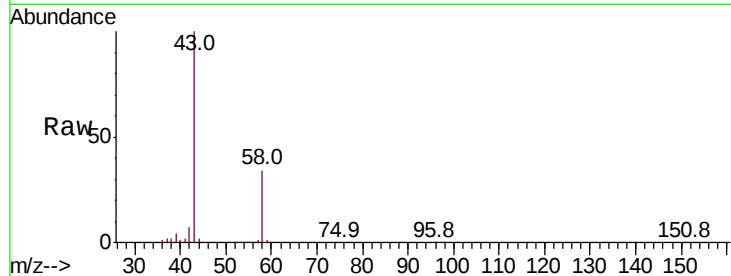
Ion Ratio Lower Upper

58 100

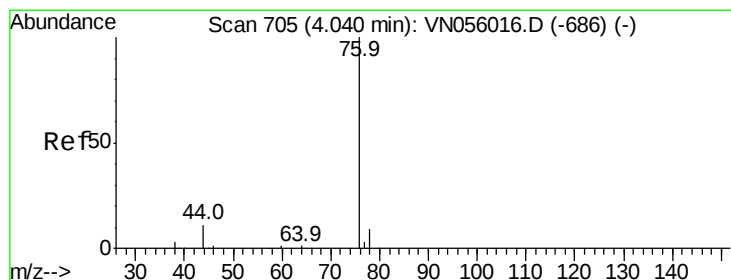
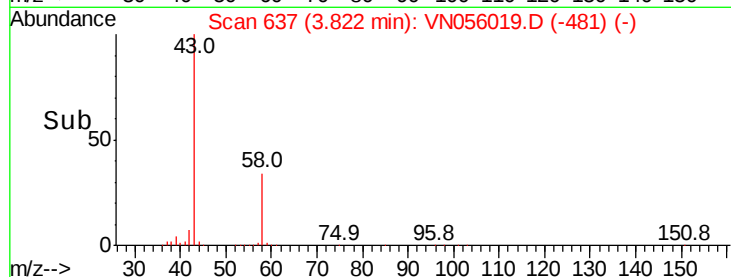
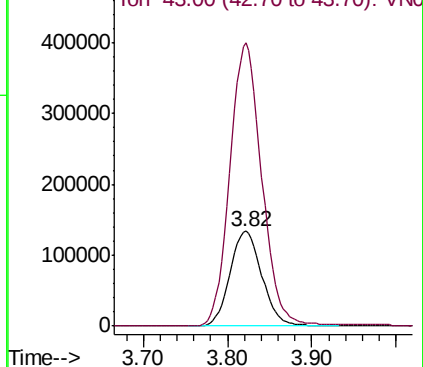
43 297.4 232.5 348.7

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Abundance Ion 58.00 (57.70 to 58.70): VN0



#16

Carbon Disulfide

Concen: 145.065 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.01 min

Lab File: VN056019.D

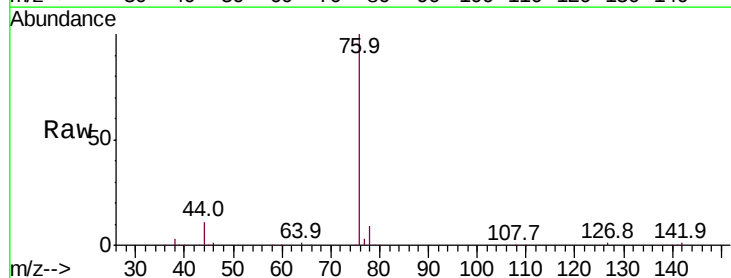
Acq: 5 Jun 2019 20:33

Tgt Ion: 76 Resp: 1107864

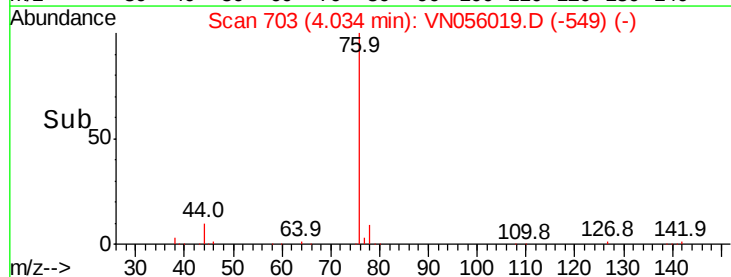
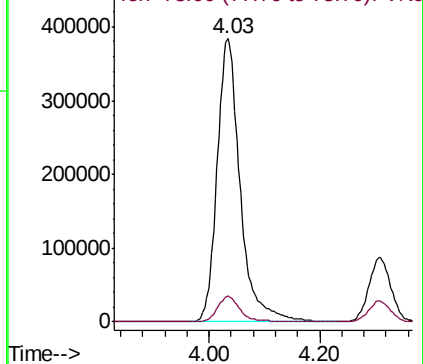
Ion Ratio Lower Upper

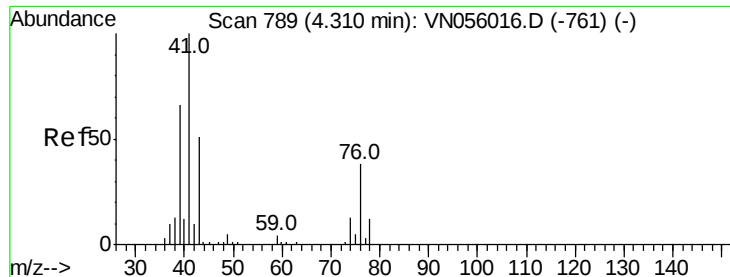
76 100

78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0





#17

Allvl chloride

Concen: 138.226 ug/l

RT: 4.31 min Scan# 788

Delta R.T. -0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

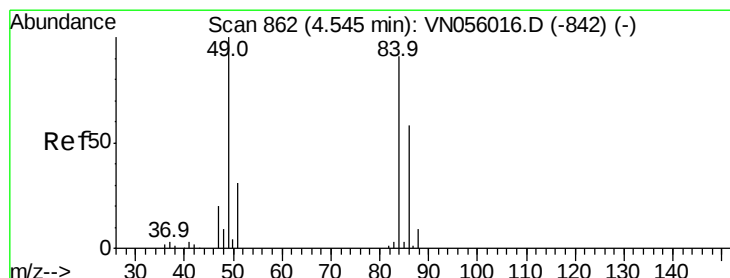
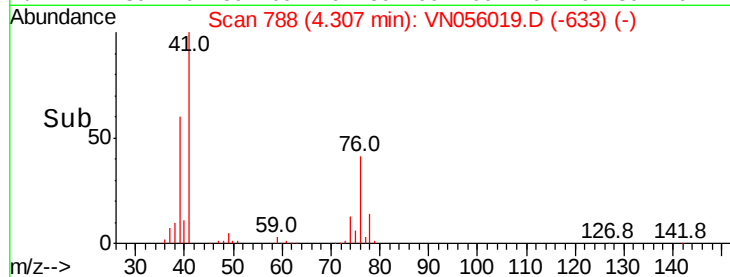
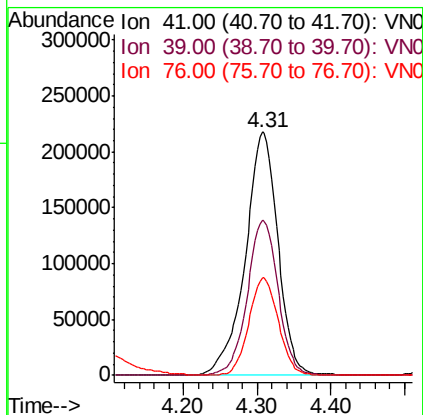
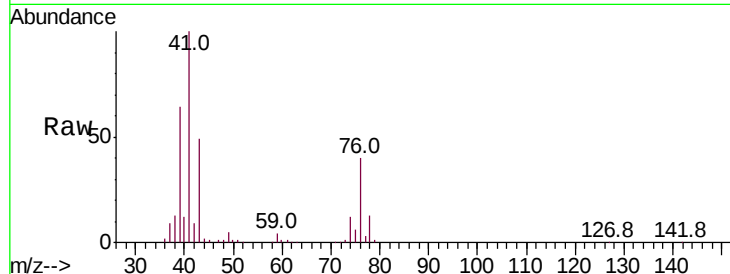
ClientSampleId :

VSTDIC150

Tot Ion:	41	Resp:	672152
Ion	Ratio	Lower	Upper
41	100		
39	63.7	33.0	99.0
76	39.8	18.9	56.9

Manual Integrations
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#18

Methylene Chloride

Concen: 149.884 ug/l

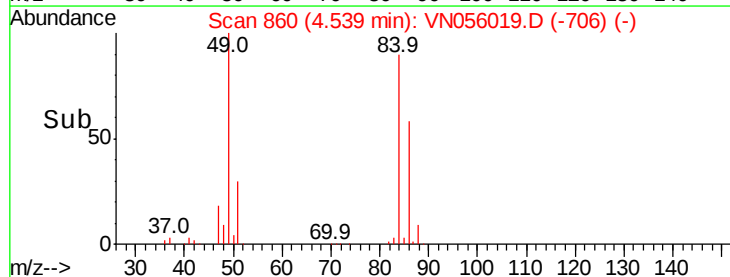
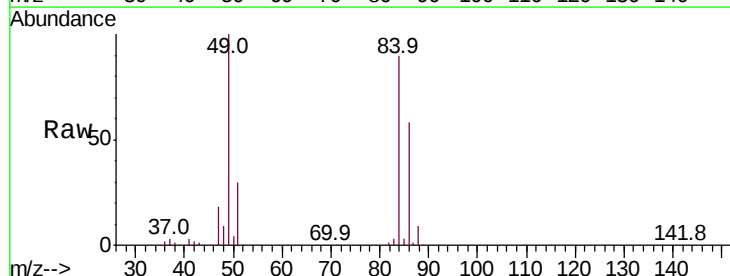
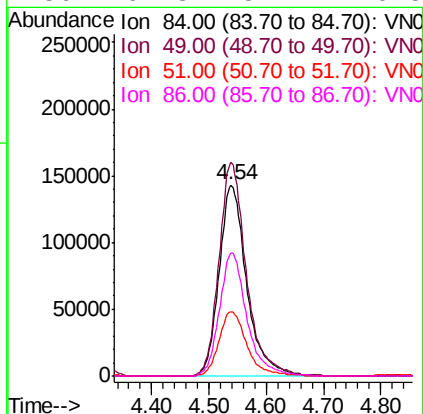
RT: 4.54 min Scan# 860

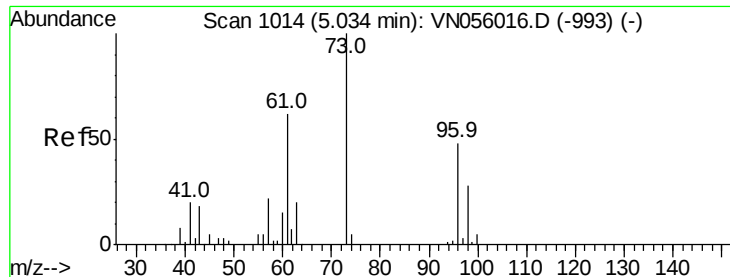
Delta R.T. -0.01 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Tgt Ion:	84	Resp:	479078
Ion	Ratio	Lower	Upper
84	100		
49	111.7	87.6	131.4
51	33.7	27.0	40.4
86	64.3	51.2	76.8





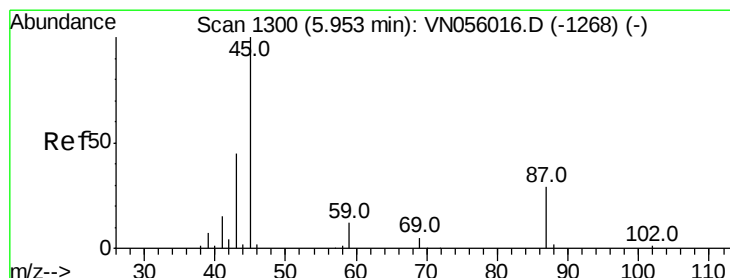
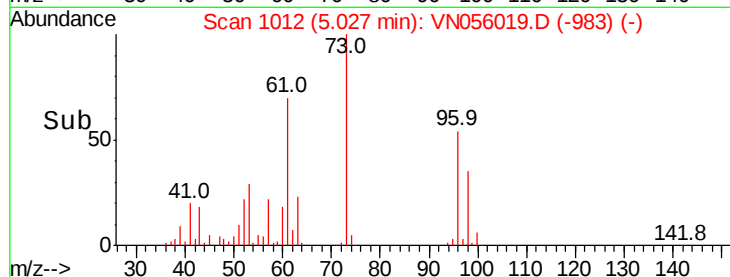
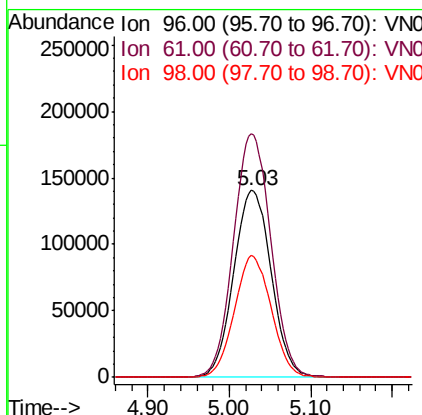
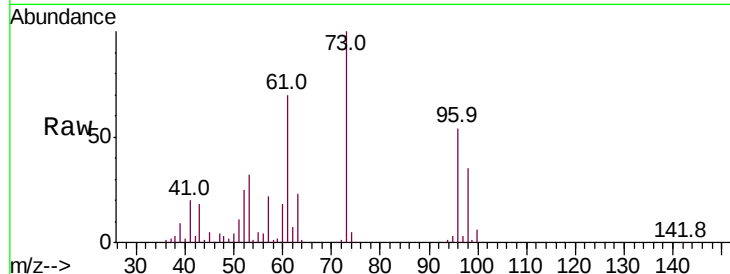
#19
trans-1,2-Dichloroethene
Concen: 149.795 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. -0.01 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.3	102.5	153.7
98	65.0	46.9	70.3

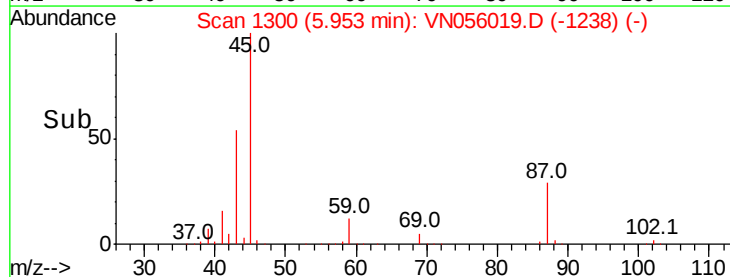
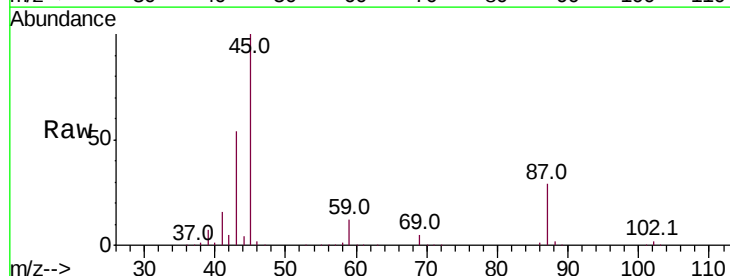
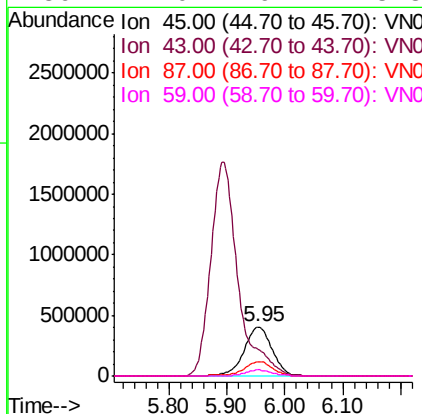
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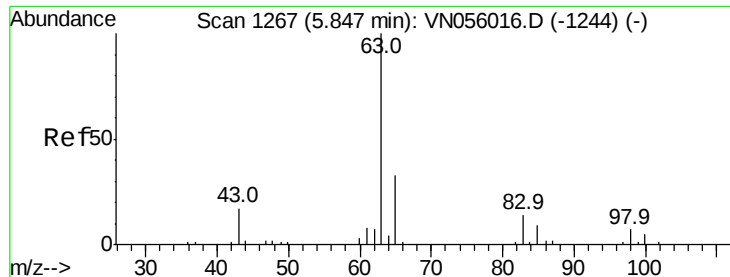
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#20
Diisopropyl ether
Concen: 141.970 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
45	100		
43	53.4	48.0	72.0
87	29.1	23.4	35.2
59	12.0	9.2	13.8





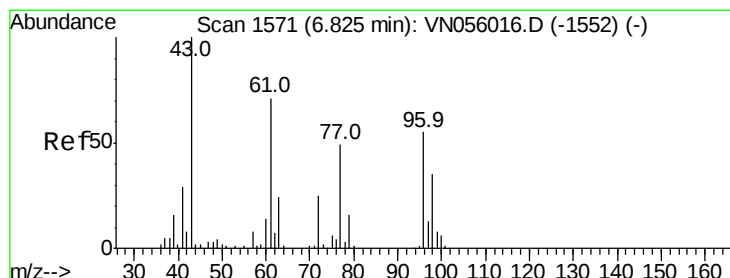
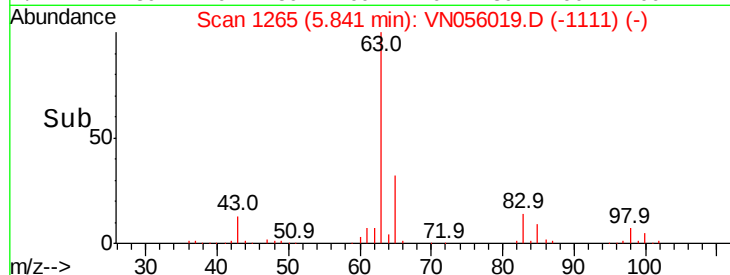
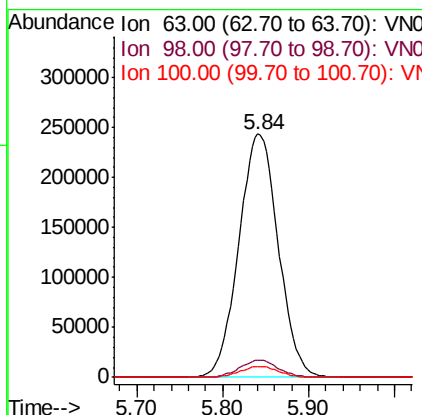
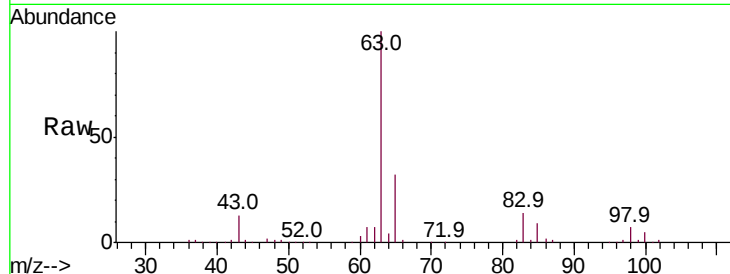
#21
 1,1-Dichloroethane
 Concen: 142.948 ug/l
 RT: 5.84 min Scan# 1265
 Delta R.T. -0.01 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.5
100	4.5	2.3	6.9

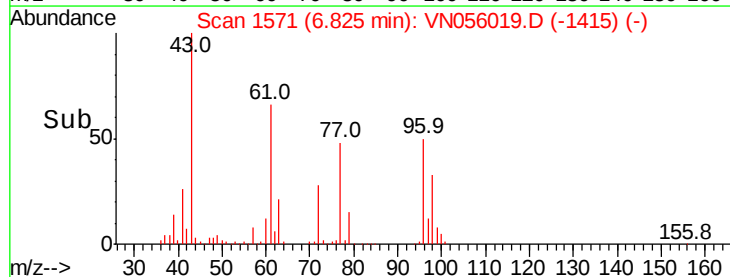
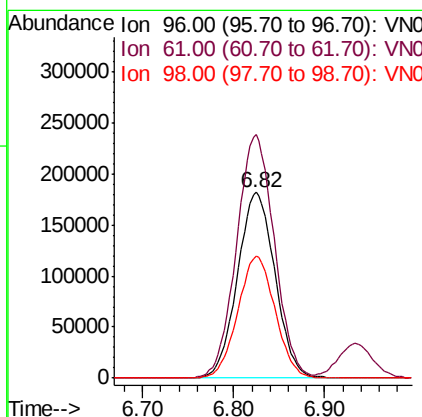
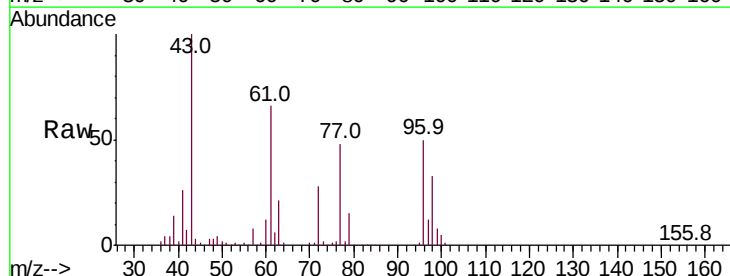
Manual Integrations
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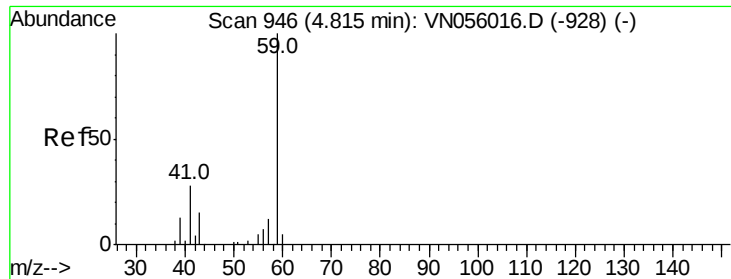
MMDadoda
 6/6/2019 10:19:43 AM



#22
 cis-1,2-Dichloroethene
 Concen: 149.448 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	131.9	105.7	158.5
98	65.3	52.0	78.0





#23

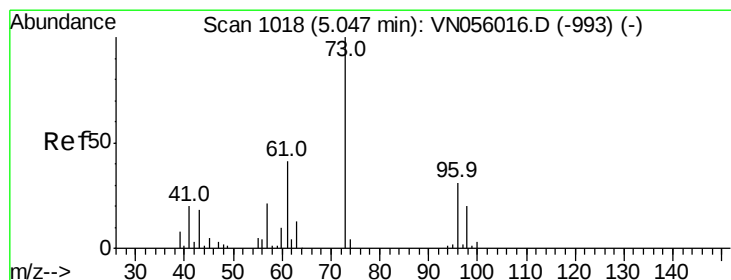
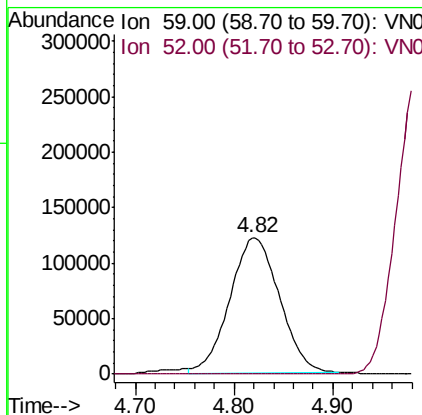
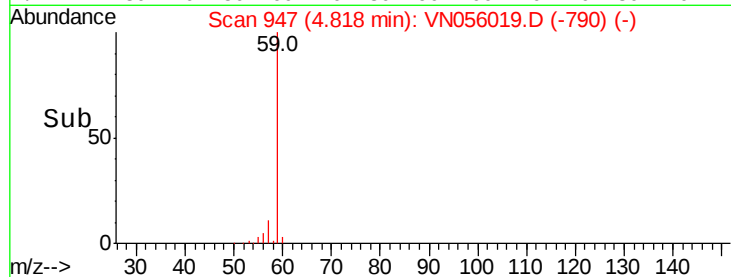
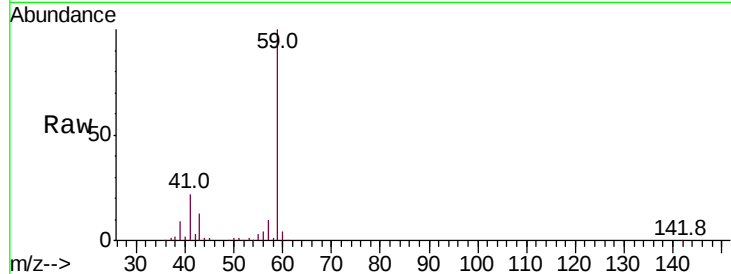
tert-Butyl Alcohol
Concen: 648.265 ug/l
RT: 4.82 min Scan# 947
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	59	52	Ratio	100	0.0	Resp	426259	Lower	Upper
Ion	59	52	Ratio	100	0.0	Resp	426259	Lower	Upper

Manual Integrations
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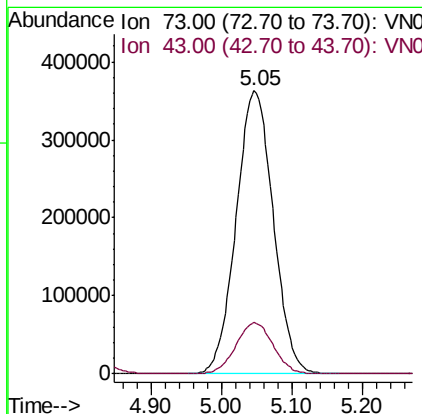
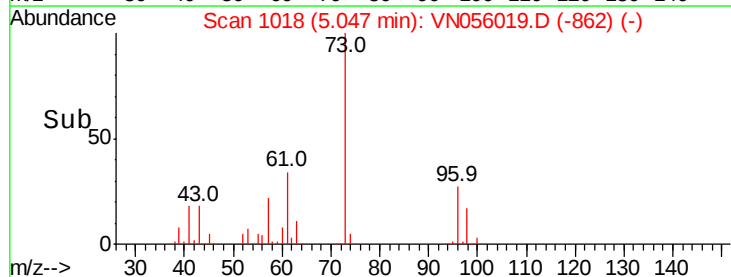
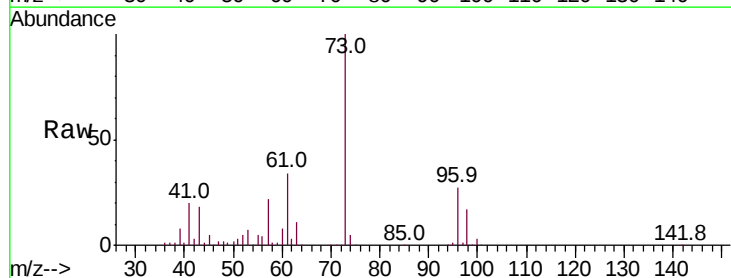
MMDadoda
6/6/2019 10:19:43 AM

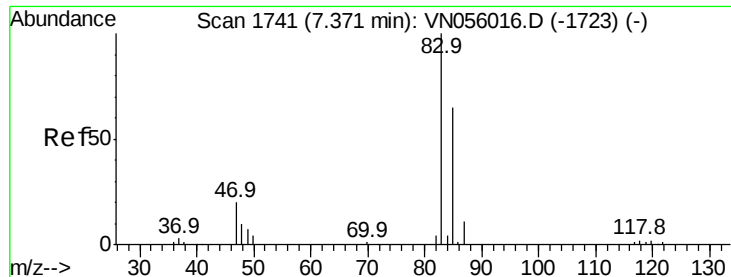


#24

Methyl tert-Butyl Ether
Concen: 142.586 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	73	43	Ratio	100	18.0	Resp	1331586	Lower	Upper
Ion	73	43	Ratio	100	18.0	Resp	1331586	Lower	Upper





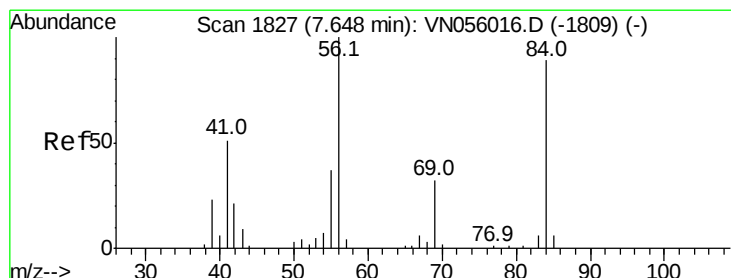
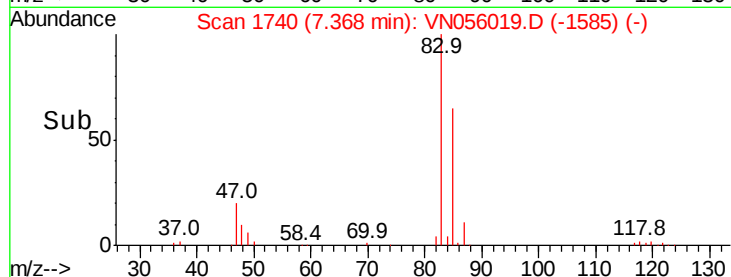
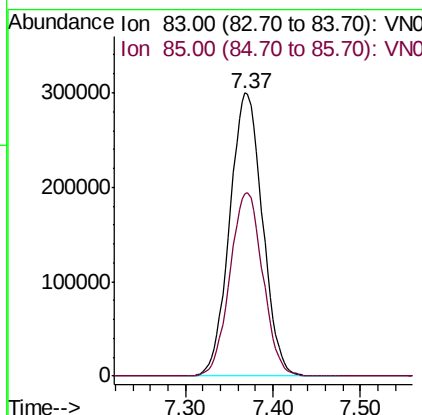
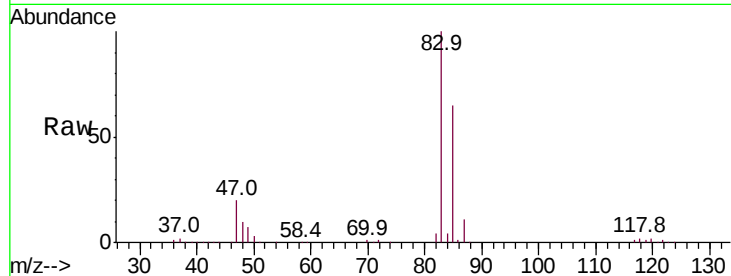
#25
Chloroform
Concen: 144.623 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 83 Resp: 779695
Ion Ratio Lower Upper
83 100
85 64.6 52.0 78.0

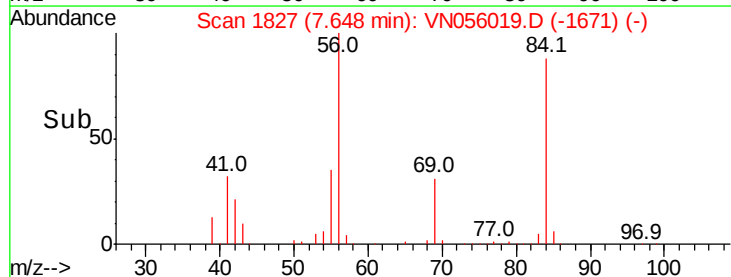
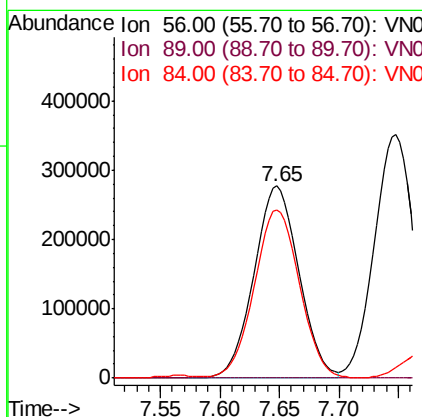
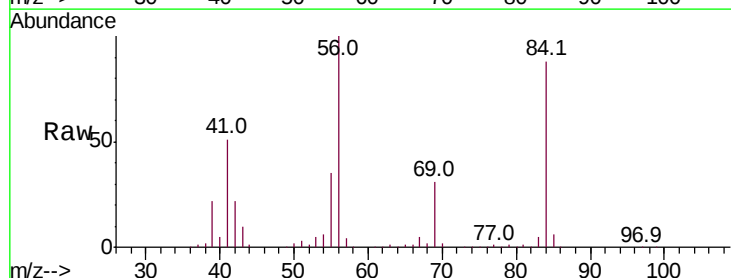
Manual Integrations
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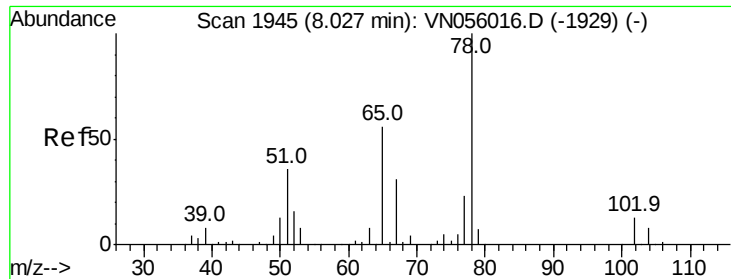
MMDadoda
6/6/2019 10:19:43 AM



#26
Cyclohexane
Concen: 144.012 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion: 56 Resp: 724753
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 88.5 70.1 105.1





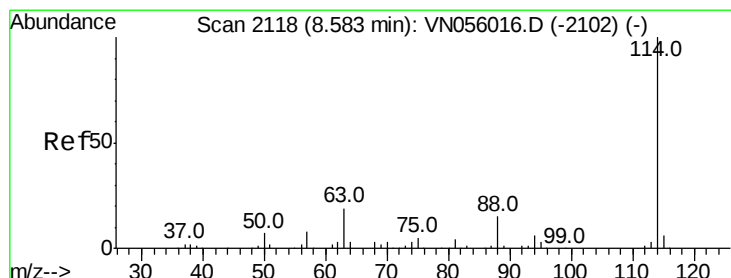
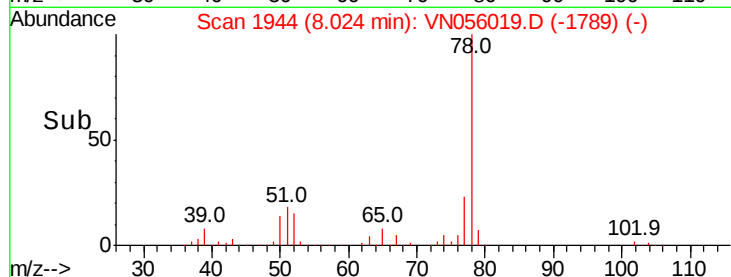
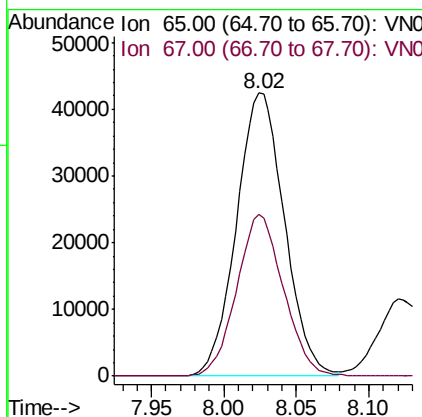
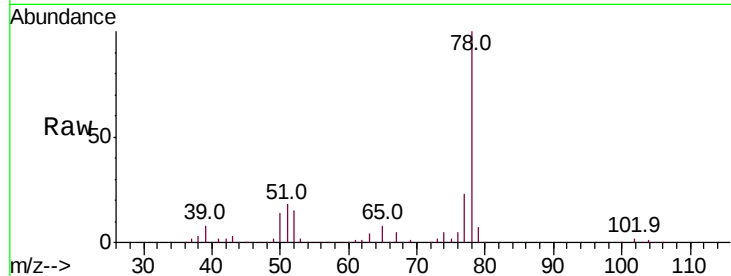
#27
 1,2-Dichloroethane-d4
 Concen: 28.413 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.5	43.4	65.2

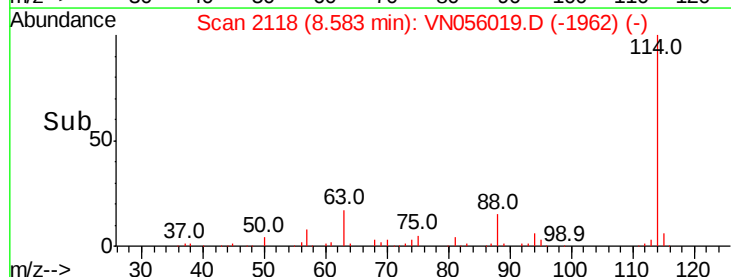
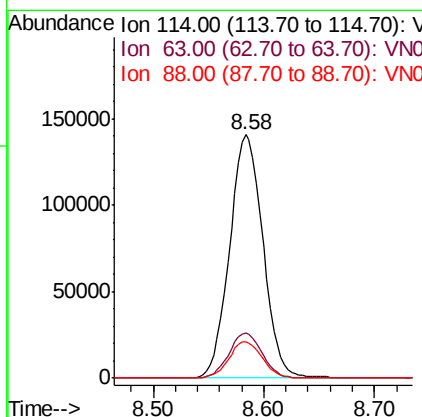
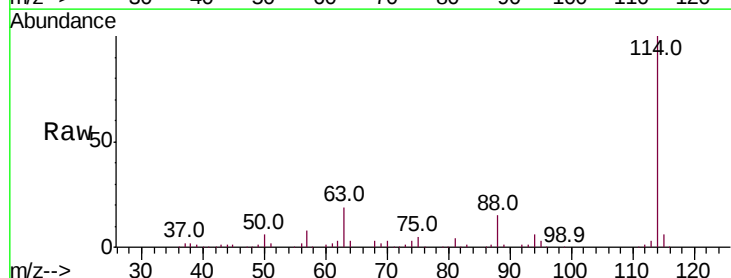
Manual Integrations
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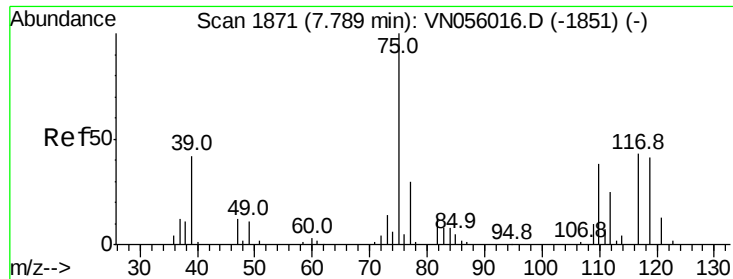
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#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.5	14.7	22.1
88	15.1	11.9	17.9





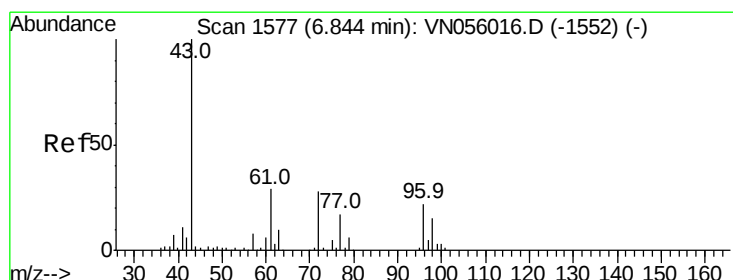
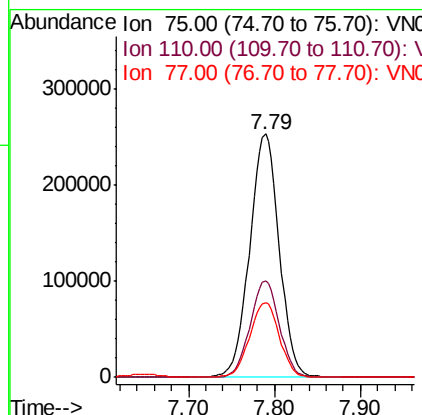
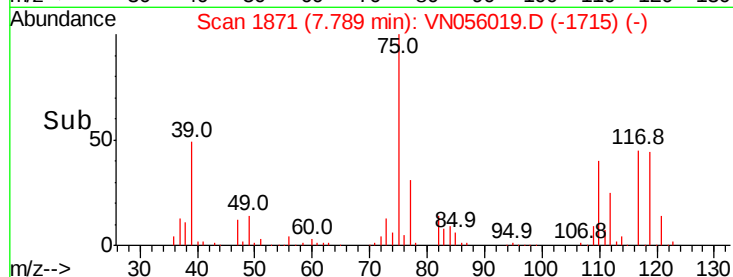
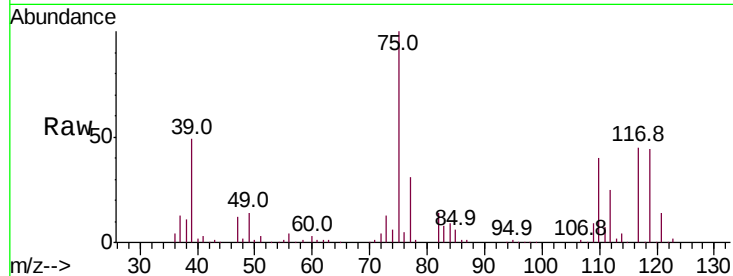
#29
 1,1-Dichloropropene
 Concen: 147.480 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
110	39.2	0.0	77.0
77	31.1	0.0	62.4

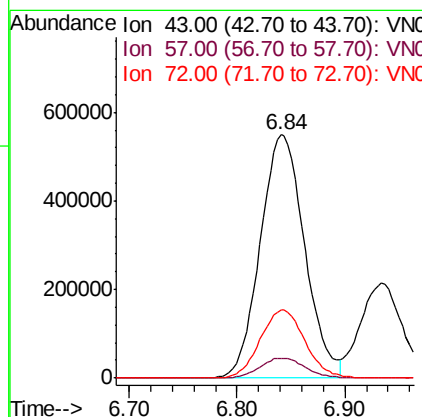
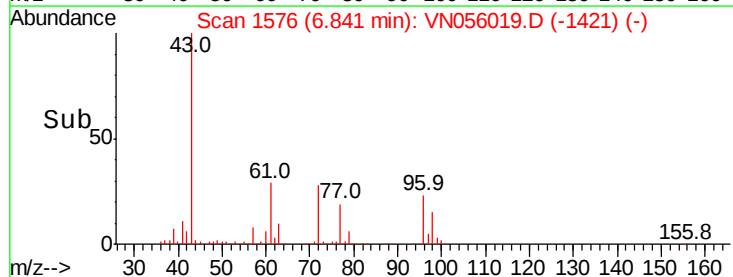
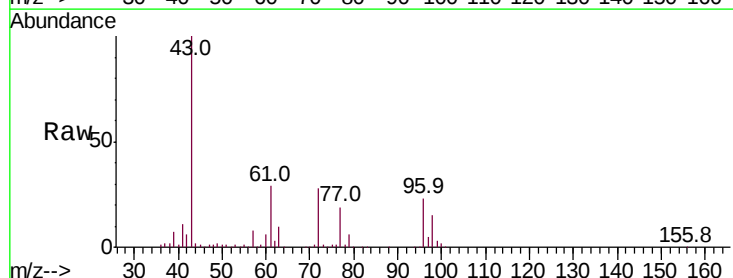
Manual Integrations
 APPROVED

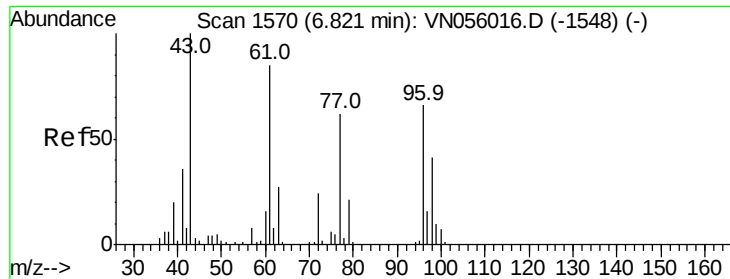
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#30
 2-Butanone
 Concen: 720.330 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.5	6.7	10.1
72	28.5	22.4	33.6





#31

2,2-Dichloropropane

Concen: 123.313 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 77 Resp: 560541

Ion Ratio Lower Upper

77 100

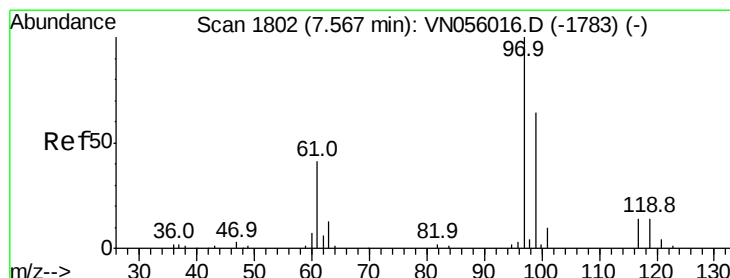
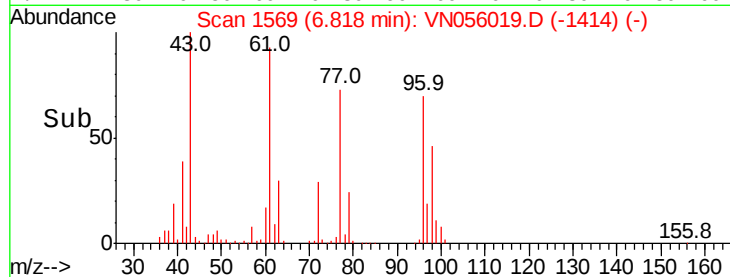
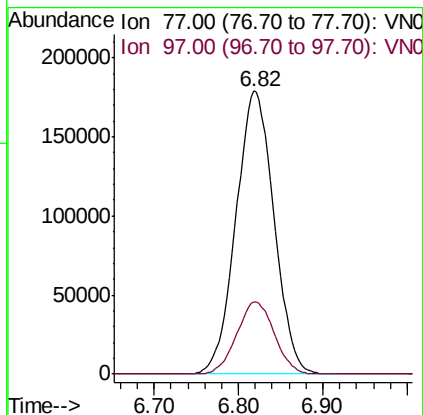
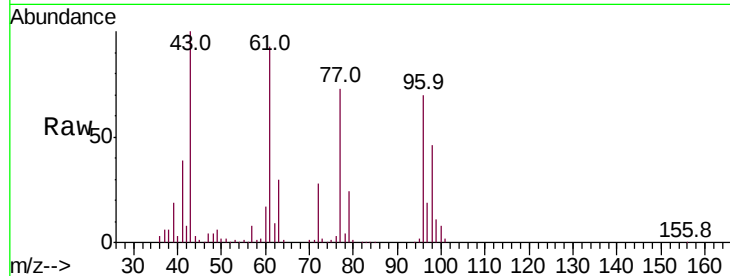
97 25.4 20.8 31.2

Manual Integrations

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MMDadoda

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#32

1,1,1-Trichloroethane

Concen: 140.478 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

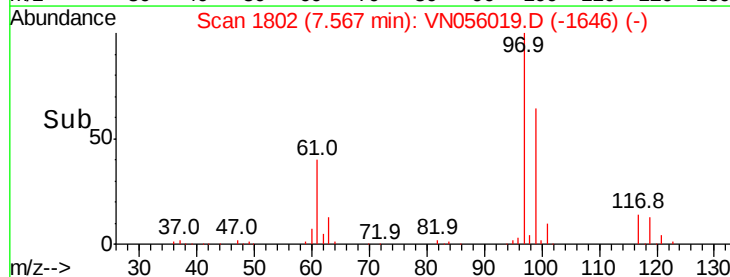
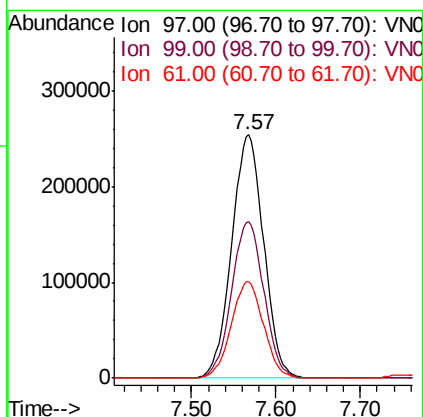
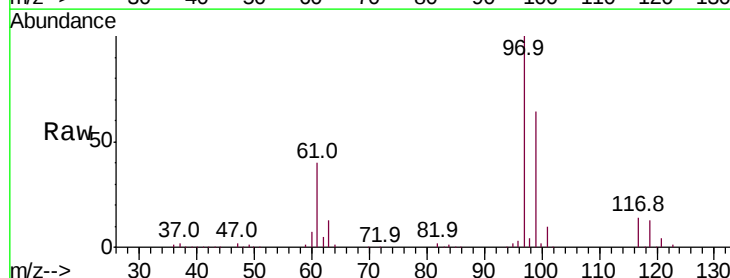
Tgt Ion: 97 Resp: 670942

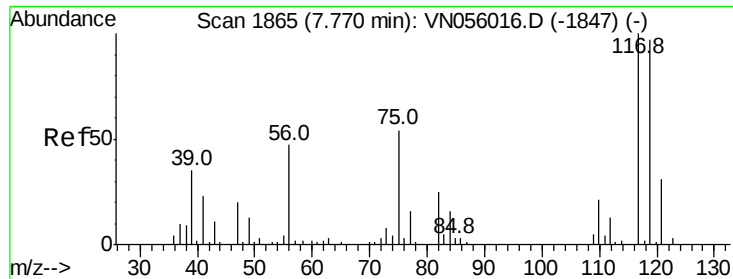
Ion Ratio Lower Upper

97 100

99 64.8 51.5 77.3

61 40.0 32.9 49.3





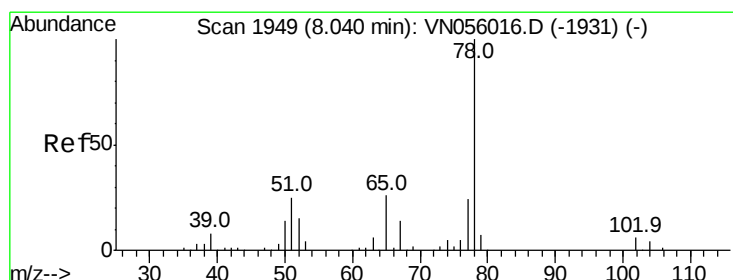
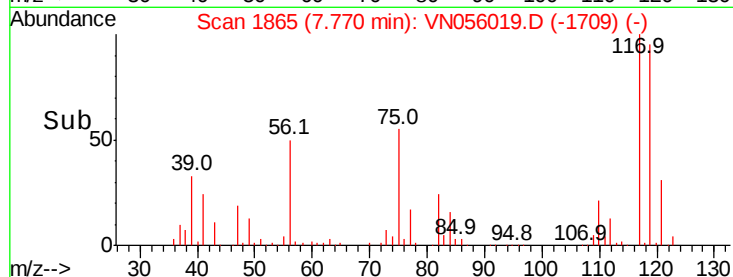
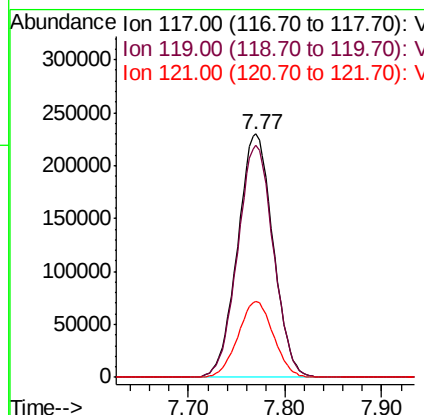
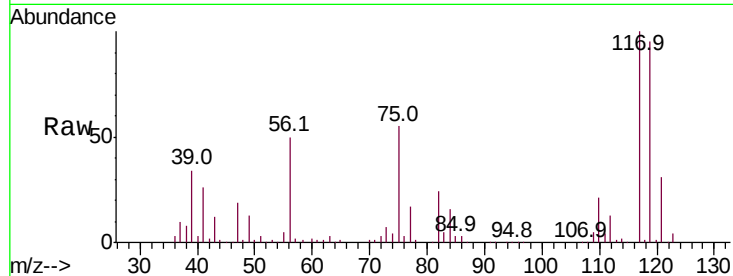
#33
Carbon Tetrachloride
Concen: 139.123 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.1	77.3	115.9
121	31.1	25.0	37.4

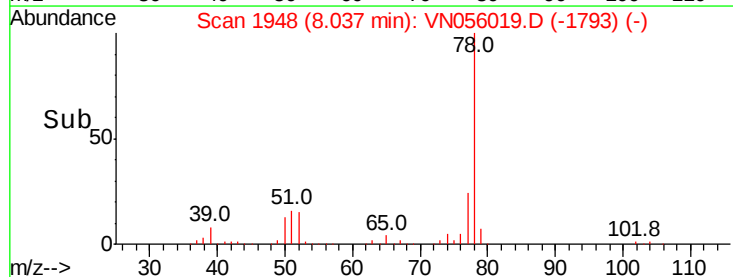
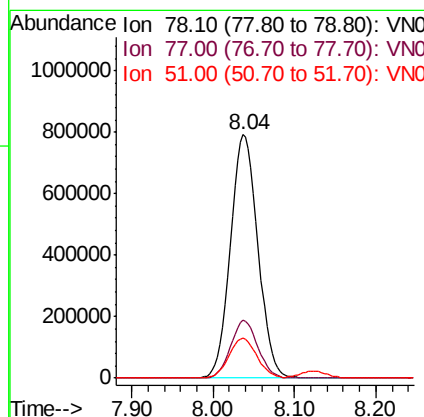
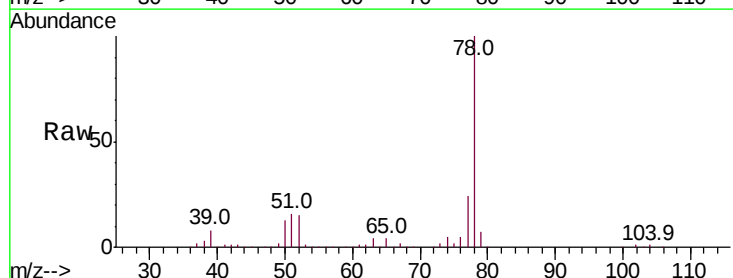
Manual Integrations
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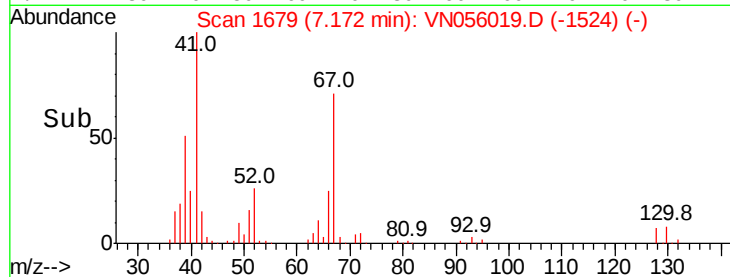
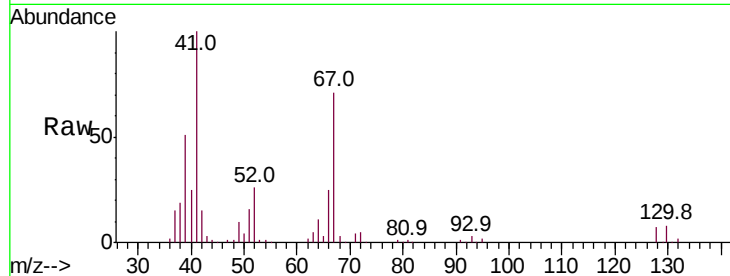
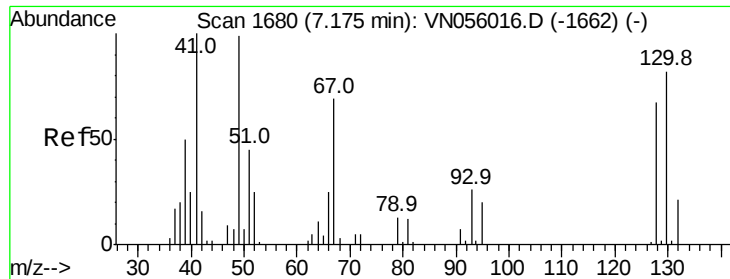
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#34
Benzene
Concen: 146.953 ug/l
RT: 8.04 min Scan# 1948
Delta R.T. -0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.3	28.9
51	16.3	19.8	29.8#





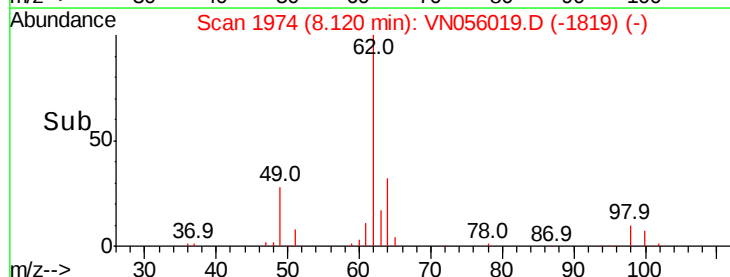
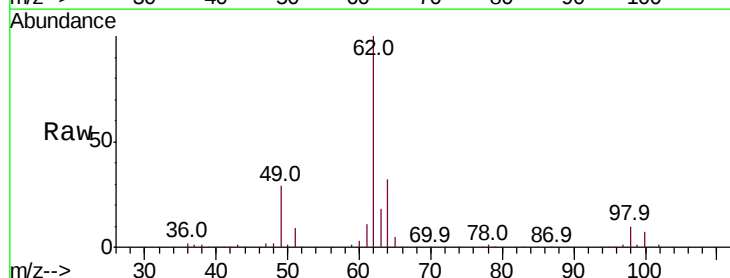
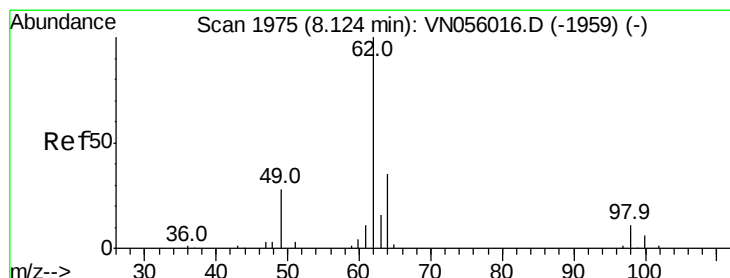
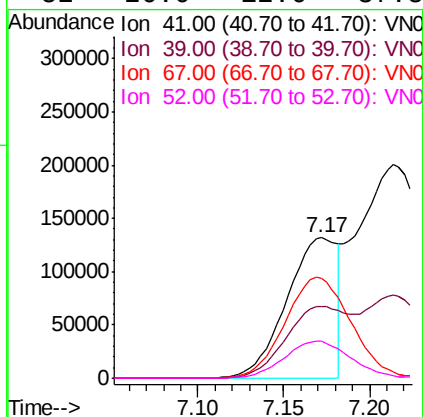
#35
Methacrylonitrile
Concen: 133.267 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	51.1	24.8	74.3	
67	71.1	34.3	102.9	
52	26.0	12.6	37.8	

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

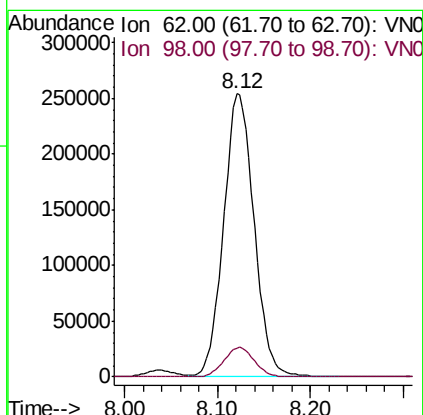
Manual Integrations
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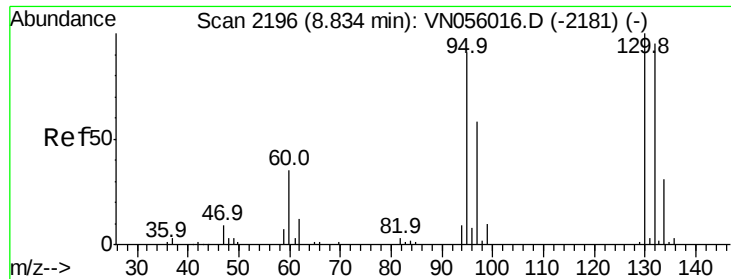
MMDadoda
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#36
1,2-Dichloroethane
Concen: 140.245 ug/l
RT: 8.12 min Scan# 1974
Delta R.T. -0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.4	8.6	13.0	





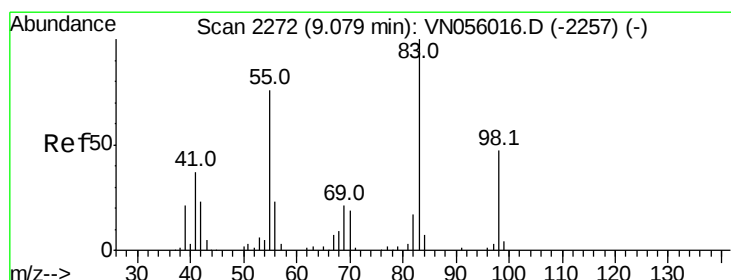
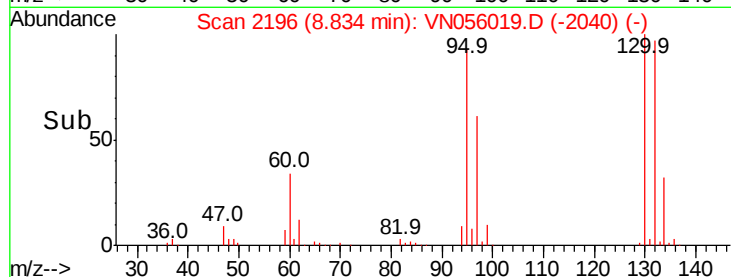
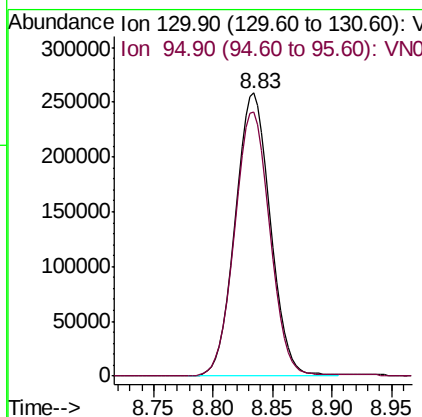
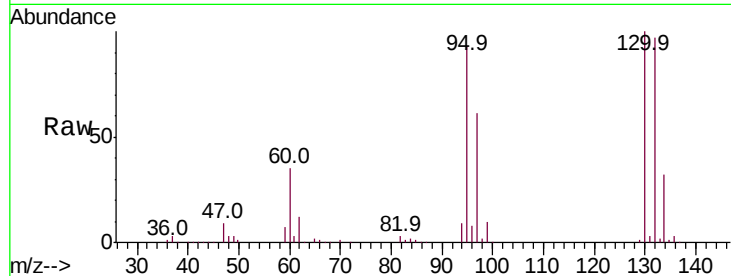
#37
 Trichloroethene
 Concen: 149.016 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
130	100		
95	93.3	73.0	109.6

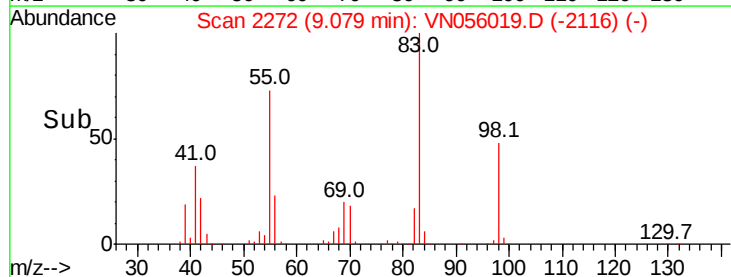
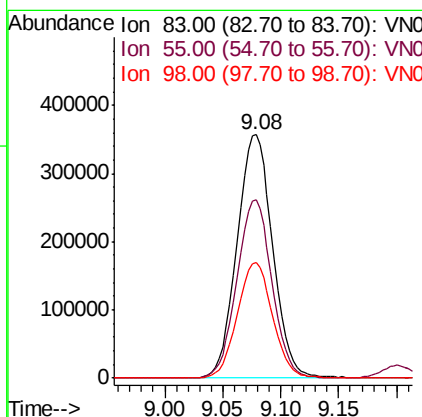
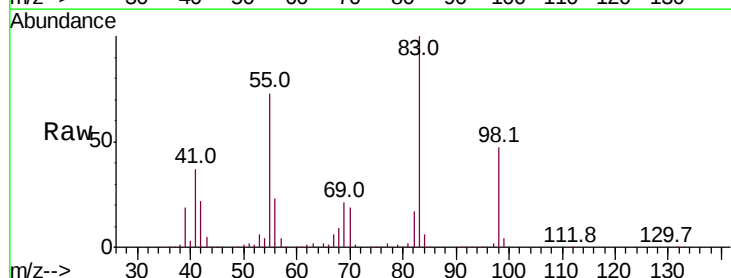
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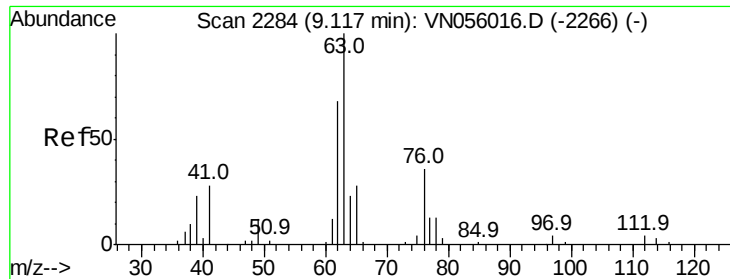
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#38
 Methylcyclohexane
 Concen: 147.525 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
83	100		
55	72.0	37.5	112.7
98	47.0	23.1	69.3





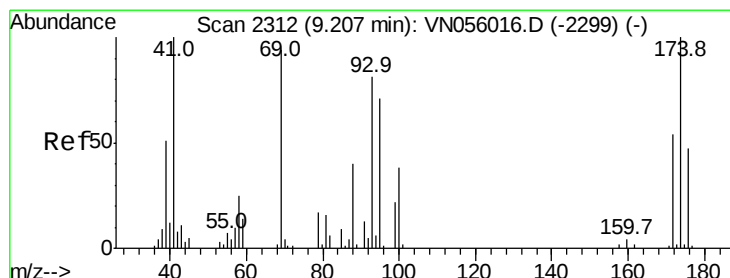
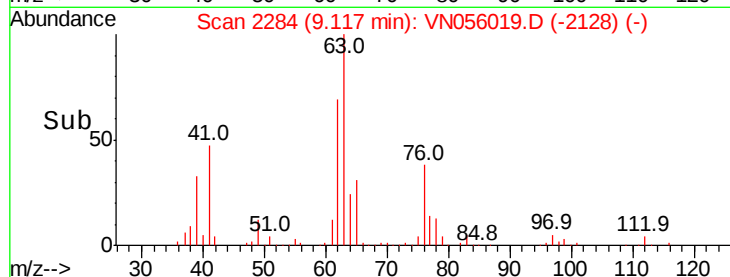
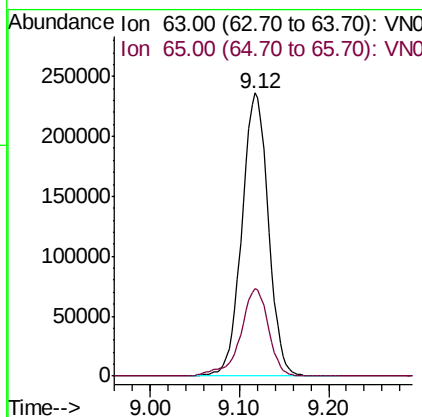
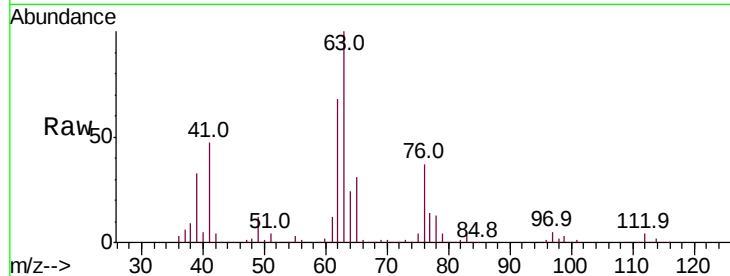
#39
 1,2-Dichloropropane
 Concen: 143.493 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion: 63 Resp: 486195
 Ion Ratio Lower Upper
 63 100
 65 30.8 23.1 34.7

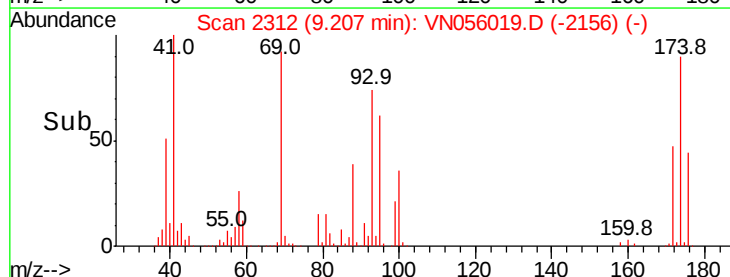
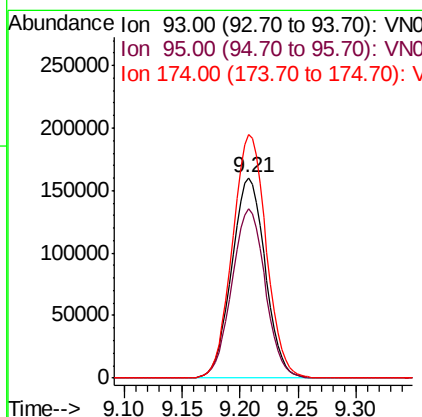
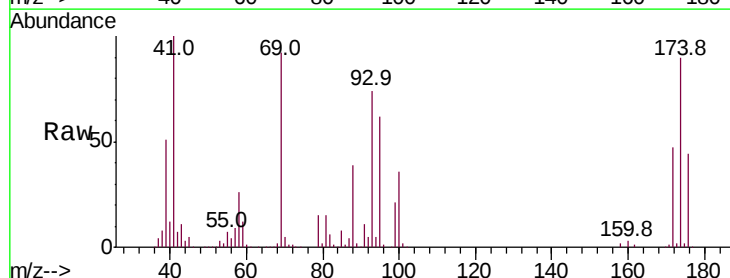
Manual Integrations
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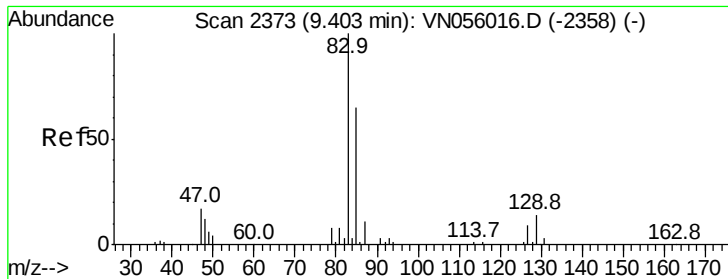
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#40
 Dibromomethane
 Concen: 145.930 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Tgt Ion: 93 Resp: 321244
 Ion Ratio Lower Upper
 93 100
 95 84.0 0.0 169.0
 174 122.5 0.0 246.4





#41

Bromodichloromethane

Concen: 139.716 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

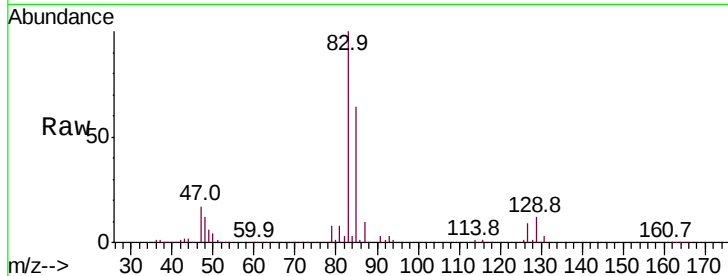
ClientSampleId :

VSTDIC150

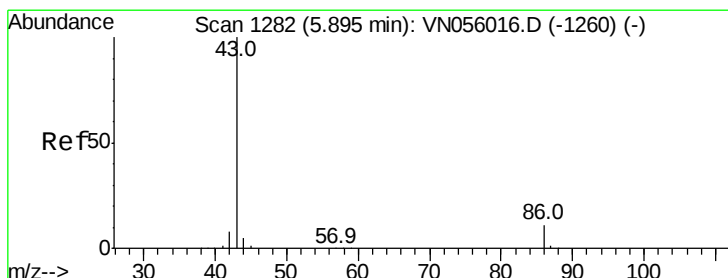
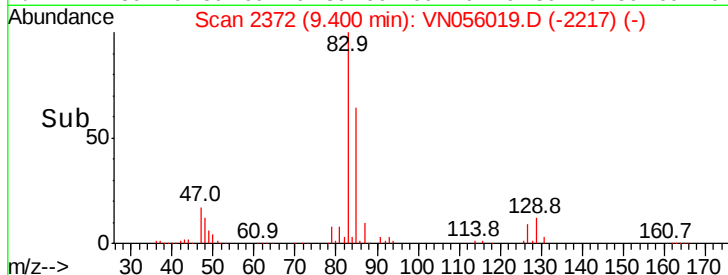
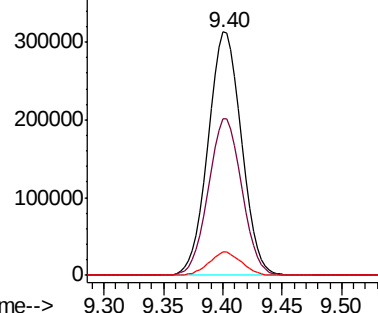
Tot Ion:	83	Resp:	609899
Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.8	77.6
127	9.5	7.3	10.9

Manual Integrations
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Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 85.00 (84.70 to 85.70): VNO
Ion 127.00 (126.70 to 127.70): VNO



#42

Vinyl Acetate

Concen: 697.474 ug/l

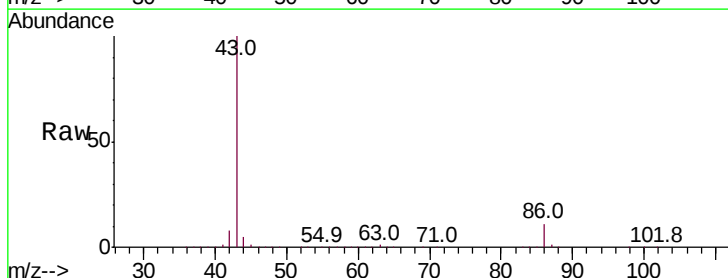
RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

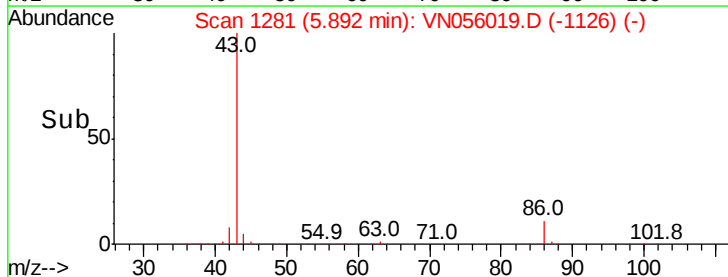
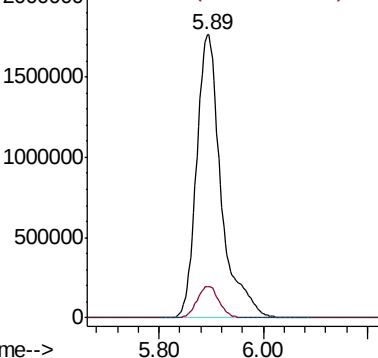
Lab File: VN056019.D

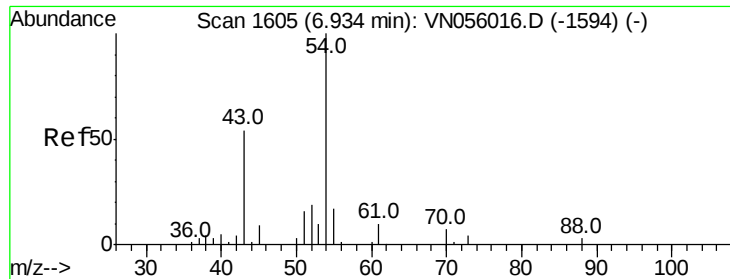
Acq: 5 Jun 2019 20:33

Tgt Ion:	43	Resp:	5775743
Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.9	11.9



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 86.00 (85.70 to 86.70): VNO





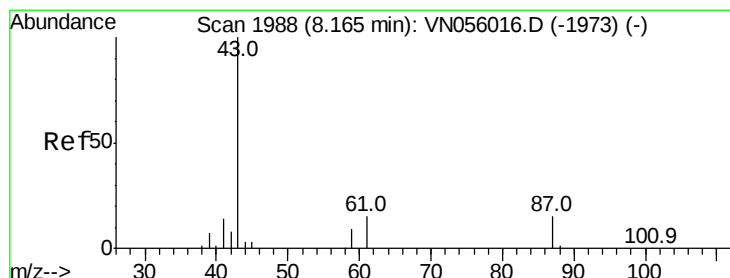
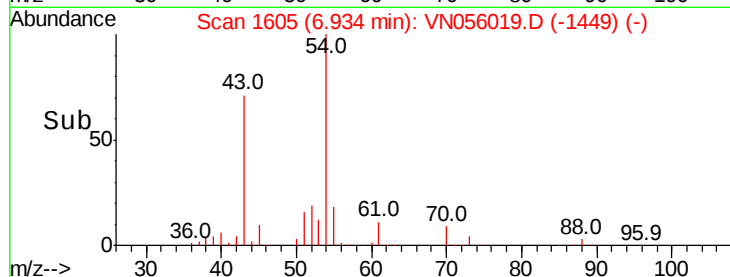
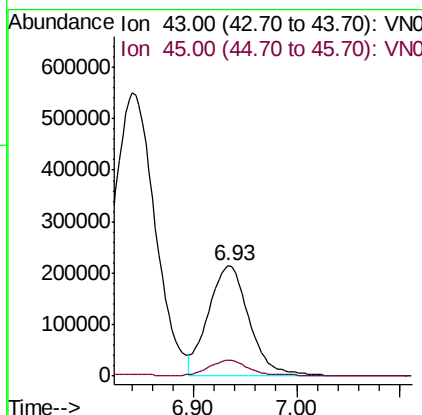
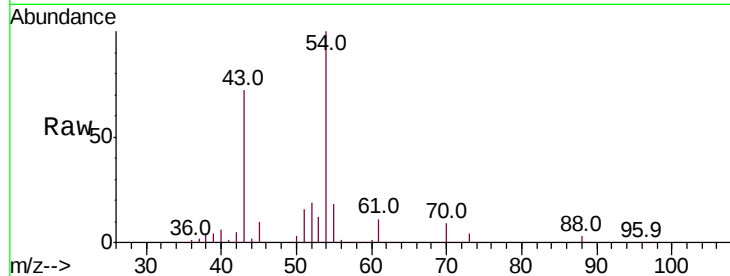
#43
Ethyl Acetate
Concen: 138.062 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion: 43 Resp: 584957
Ion Ratio Lower Upper
43 100
45 15.3 12.3 18.5

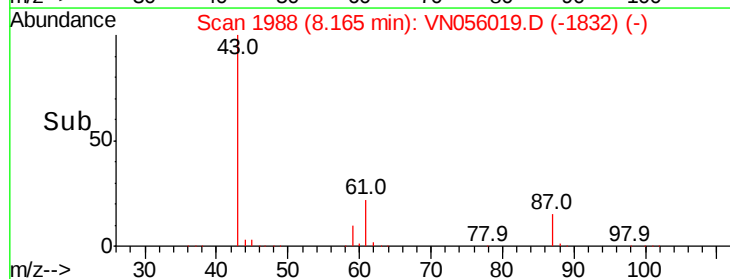
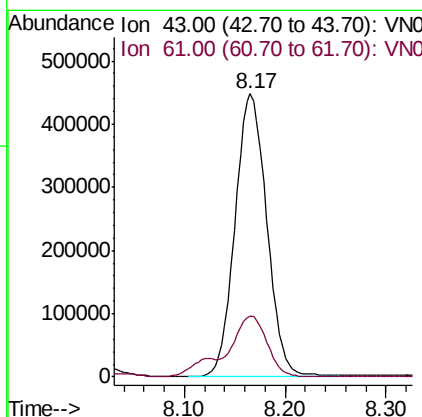
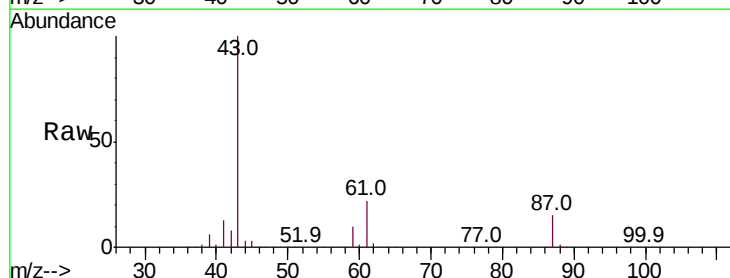
Manual Integrations
APPROVED

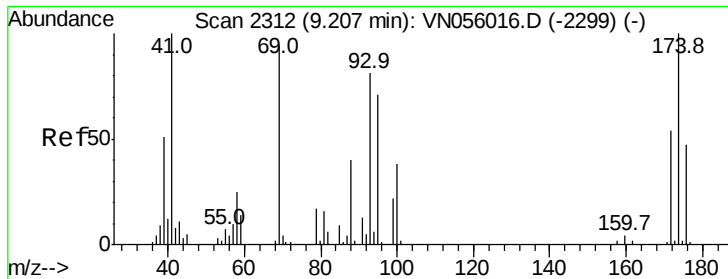
MMDadoda
6/6/2019 10:19:43 AM



#44
Isopropyl Acetate
Concen: 141.010 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion: 43 Resp: 976319
Ion Ratio Lower Upper
43 100
61 22.1 16.9 25.3





#45

1,4-Dioxane

Concen: 3064.798 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. -0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 88 Resp: 205885

Ion Ratio Lower Upper

88 100

43 24.4 19.8 29.6

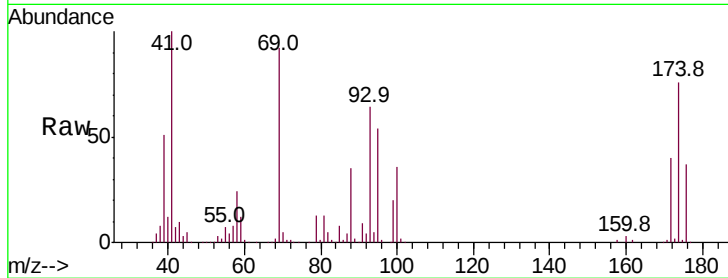
58 68.1 48.5 72.7

Manual Integrations

APPROVED

MMDadoda

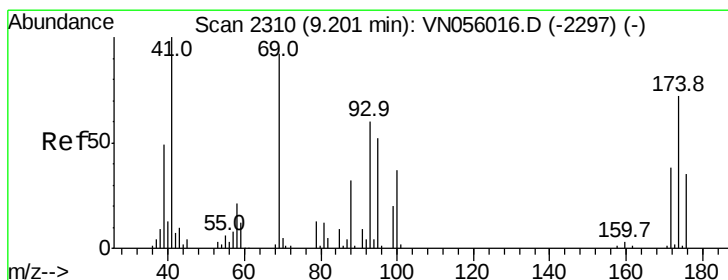
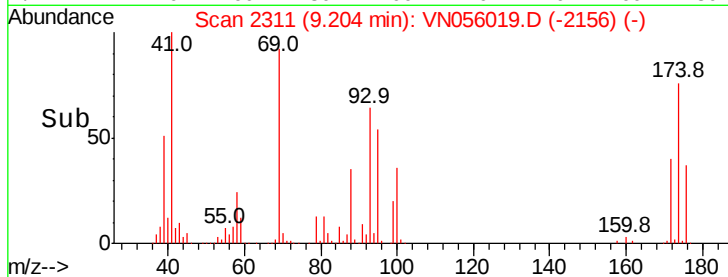
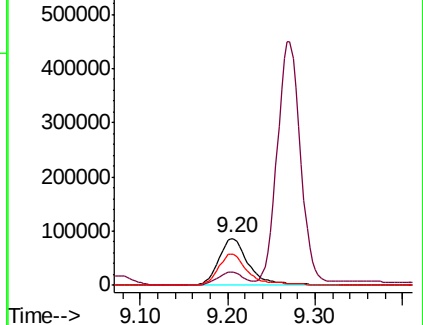
6/6/2019 10:19:43 AM



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#46

Methyl methacrylate

Concen: 146.504 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

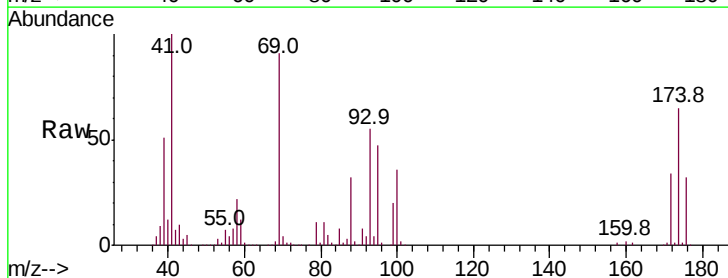
Tgt Ion: 41 Resp: 474717

Ion Ratio Lower Upper

41 100

69 91.8 46.0 137.8

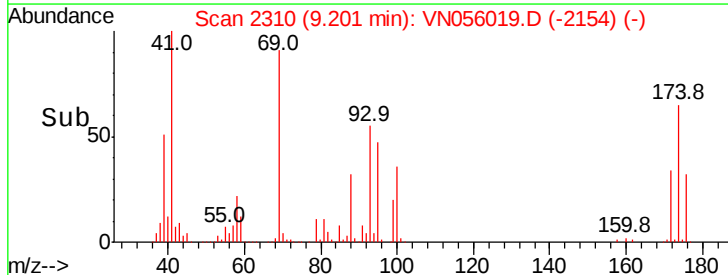
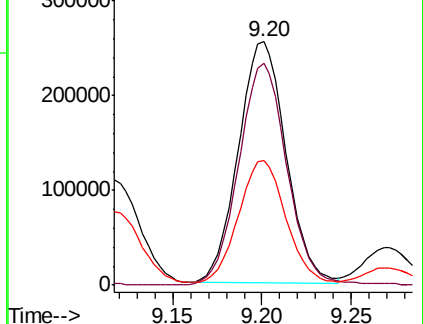
39 50.8 24.6 73.8

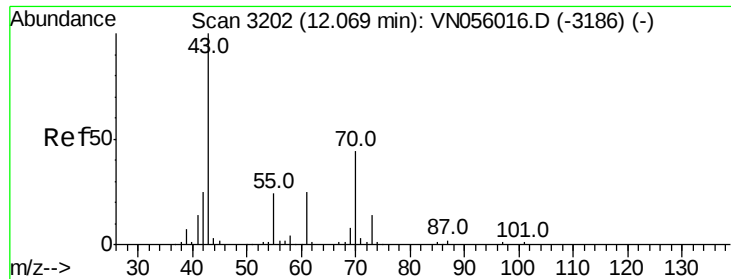


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





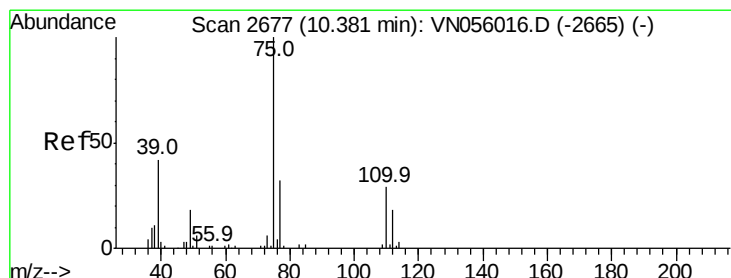
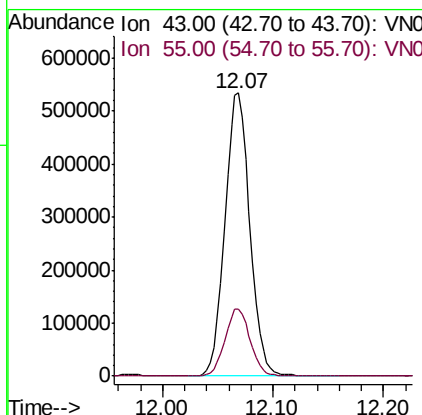
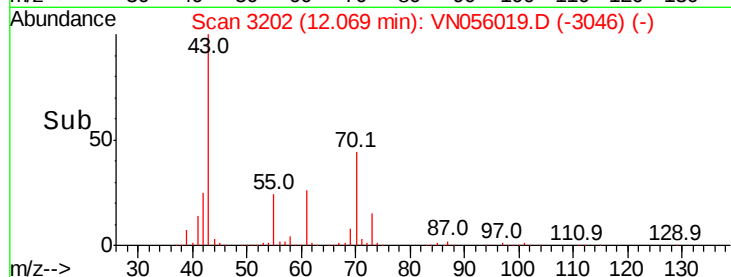
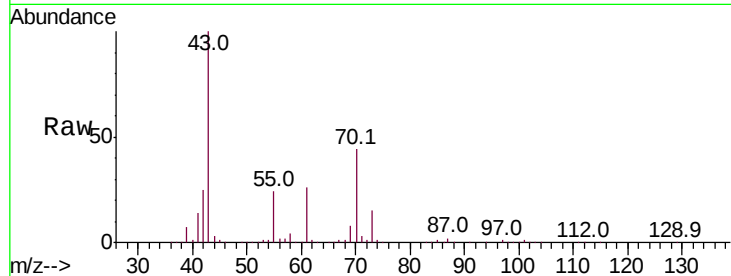
#47
n-amvl Acetate
Concen: 145.820 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	43	55	Ratio	100	24.1	Resp	832370	Lower	19.0	Upper	28.6
Ion	43	55	Ratio	100	24.1	Resp	832370	Lower	19.0	Upper	28.6

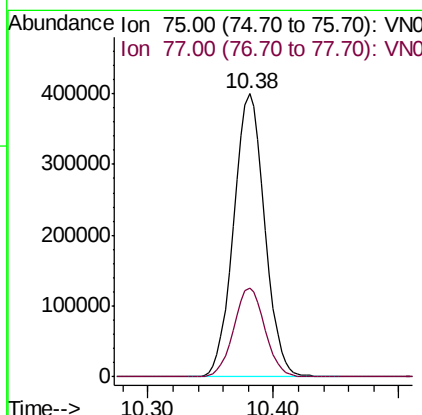
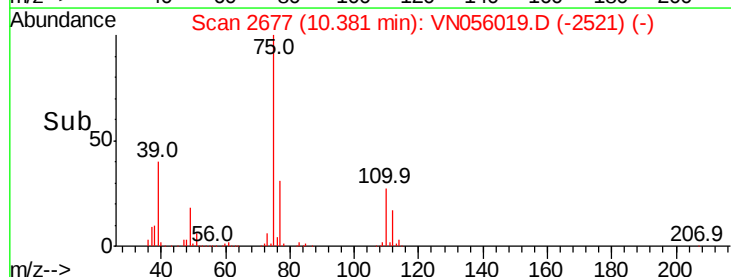
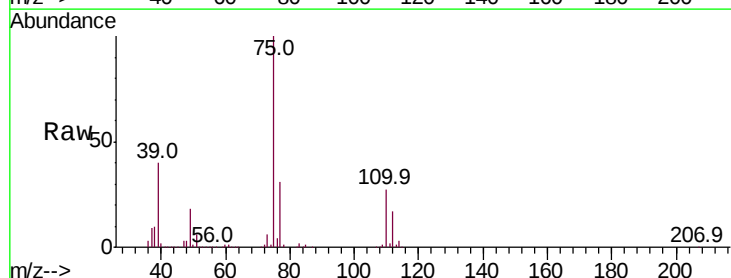
Manual Integrations
APPROVED

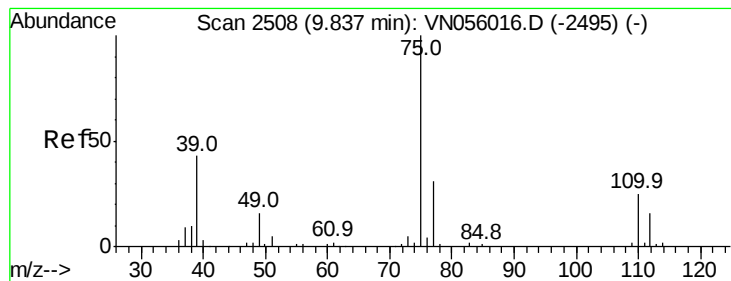
MMDadoda
6/6/2019 10:19:43 AM



#48
t-1,3-Dichloropropene
Concen: 144.256 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	75	77	Ratio	100	31.3	Resp	687419	Lower	26.0	Upper	39.0
Ion	75	77	Ratio	100	31.3	Resp	687419	Lower	26.0	Upper	39.0





#49

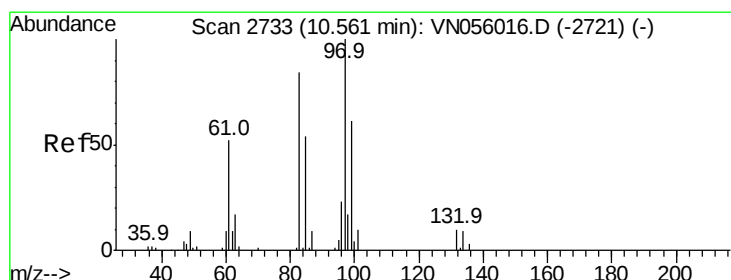
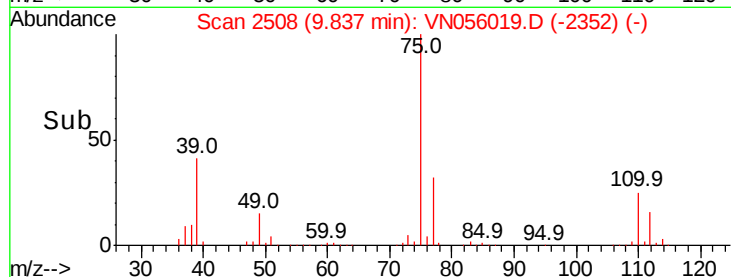
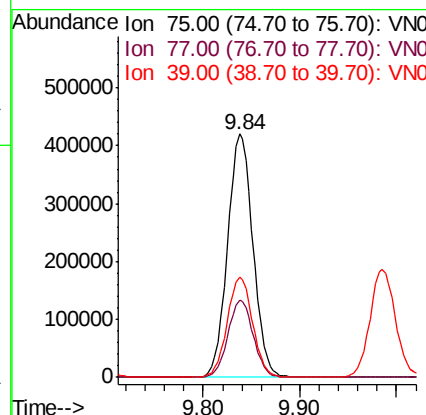
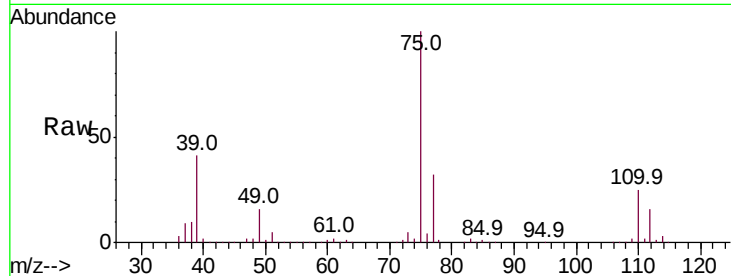
cis-1,3-Dichloropropene
Concen: 144.733 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.1	37.7
39	41.1	34.3	51.5

Manual Integrations
APPROVED

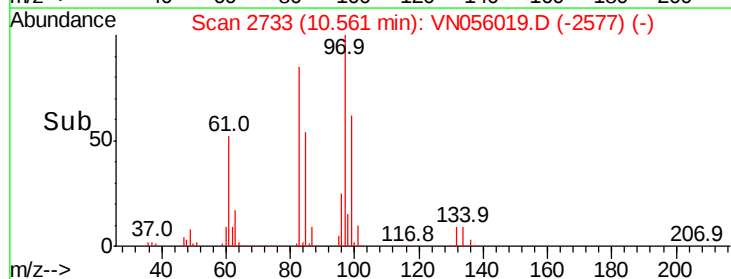
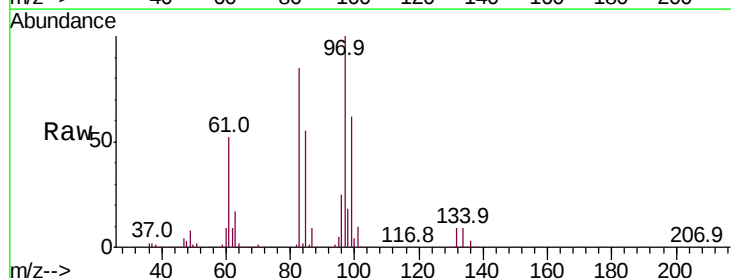
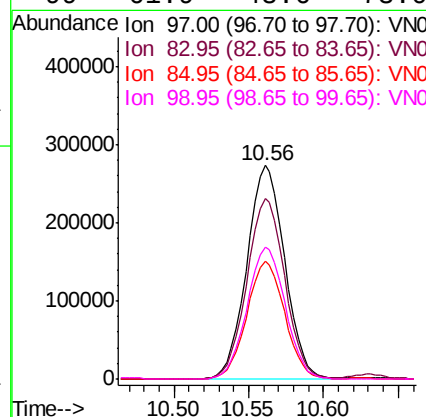
MMDadoda
6/6/2019 10:19:43 AM

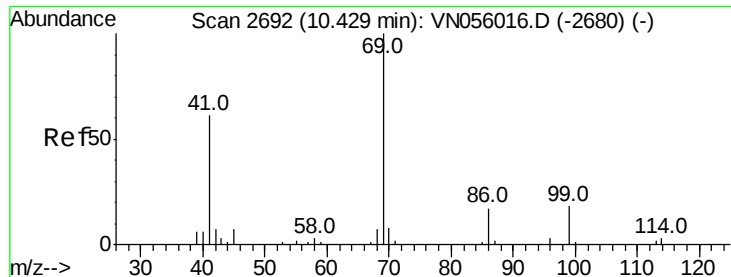


#50

1,1,2-Trichloroethane
Concen: 150.415 ug/l
RT: 10.56 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.7	66.9	100.3
85	55.1	43.3	64.9
99	61.9	48.6	73.0





#51

Ethyl methacrylate

Concen: 148.521 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 69 Resp: 753802

Ion Ratio Lower Upper

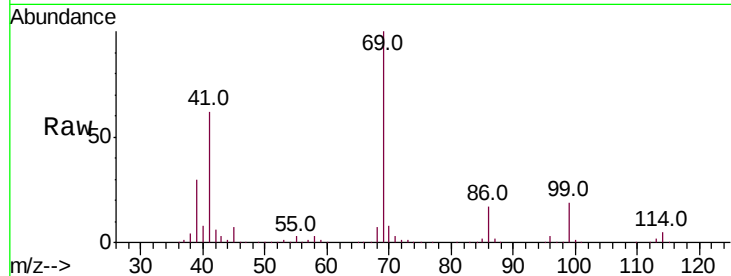
69 100

41 61.5 30.8 92.3

39 29.6 14.5 43.6

Manual Integrations
APPROVED

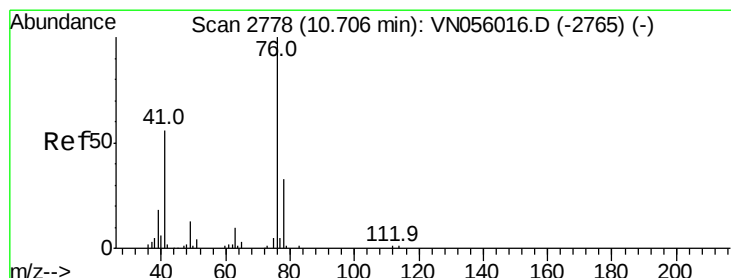
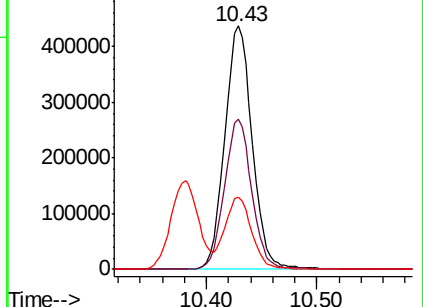
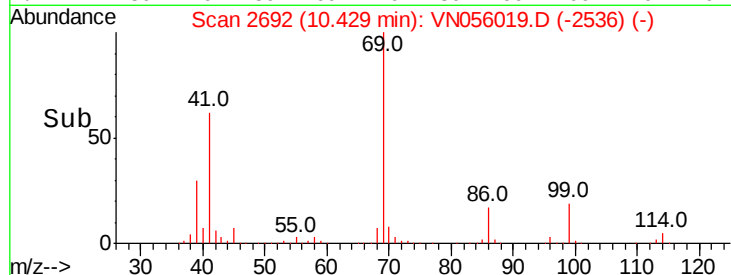
MMDadoda
6/6/2019 10:19:43 AM



Abundance Ion 69.00 (68.70 to 69.70): VN056019.D (-2536) (-)

Ion 41.00 (40.70 to 41.70): VN056019.D (-2536) (-)

Ion 39.00 (38.70 to 39.70): VN056019.D (-2536) (-)



#52

1,3-Dichloropropane

Concen: 148.157 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN056019.D

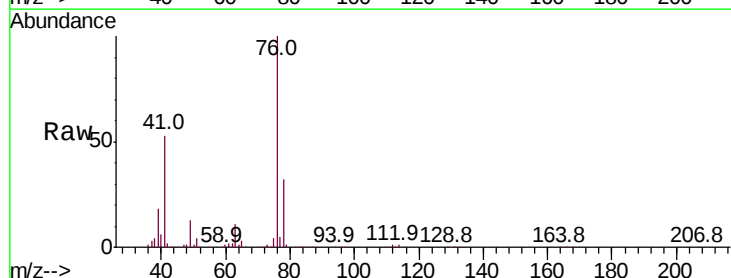
Acq: 5 Jun 2019 20:33

Tgt Ion: 76 Resp: 780060

Ion Ratio Lower Upper

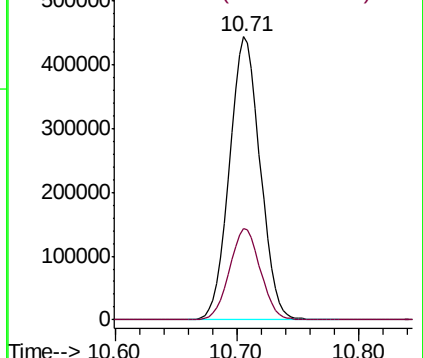
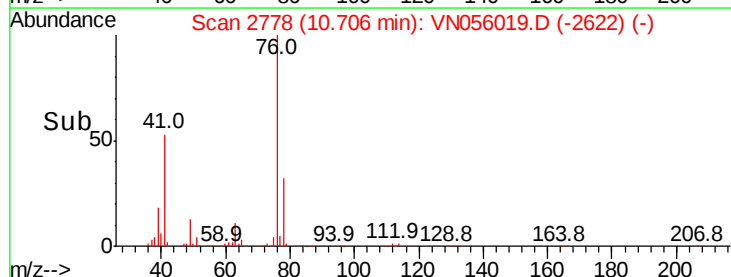
76 100

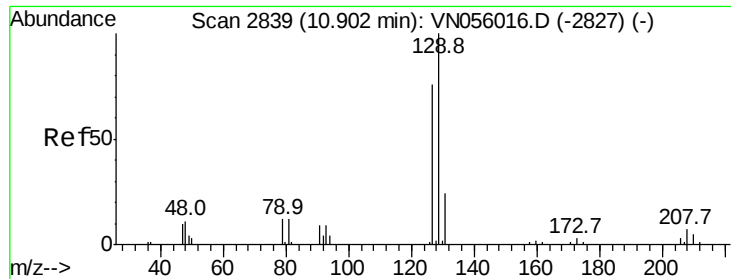
78 32.4 0.0 63.4



Abundance Ion 76.00 (75.70 to 76.70): VN056019.D (-2622) (-)

Ion 78.00 (77.70 to 78.70): VN056019.D (-2622) (-)





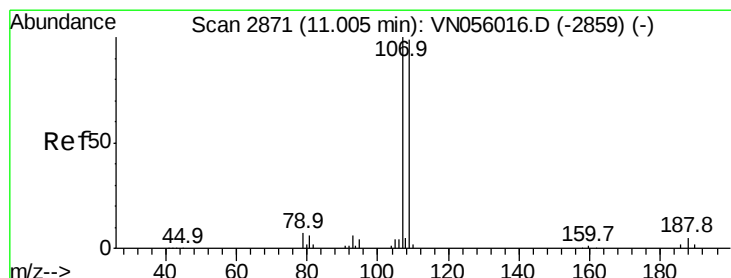
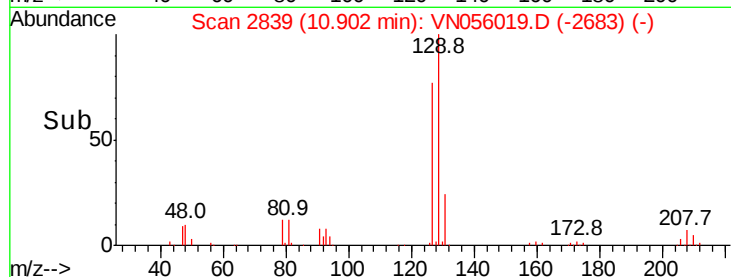
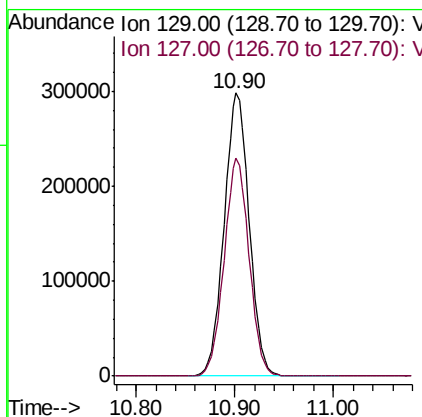
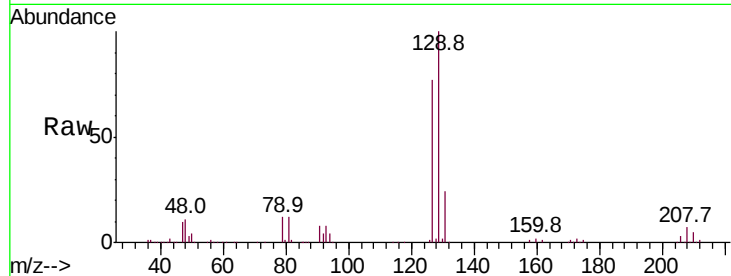
#53
Dibromochloromethane
Concen: 146.626 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:129 Resp: 531437
Ion Ratio Lower Upper
129 100
127 76.7 39.1 117.5

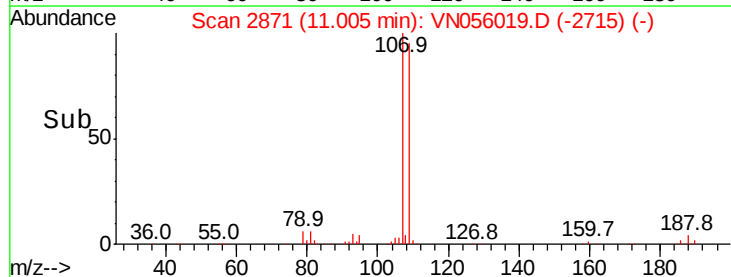
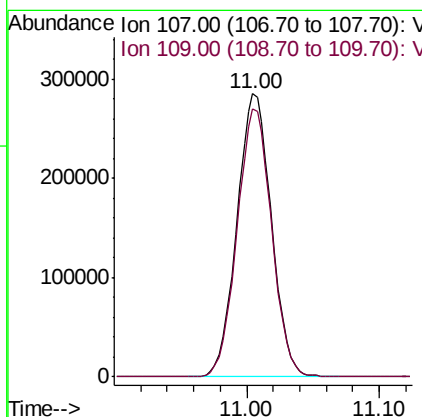
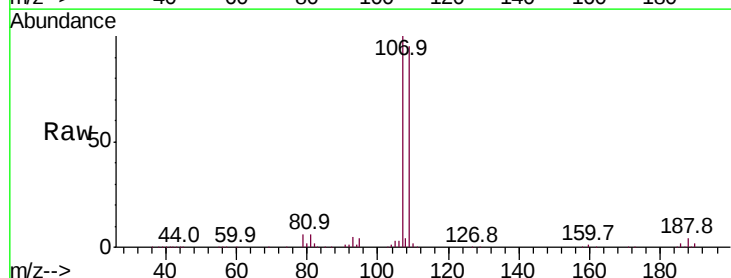
Manual Integrations
APPROVED

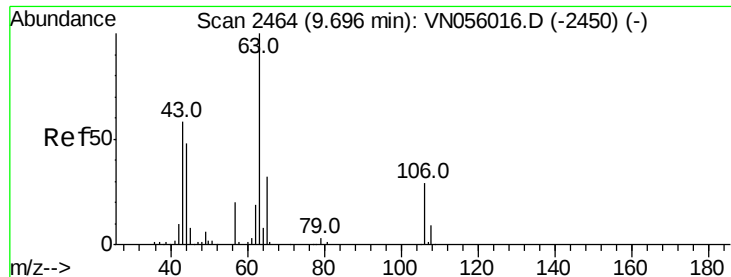
MMDadoda
6/6/2019 10:19:43 AM



#54
1,2-Dibromoethane
Concen: 154.556 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion:107 Resp: 512550
Ion Ratio Lower Upper
107 100
109 95.3 76.8 115.2





#55

2-Chloroethyl vinyl ether

Concen: 741.855 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 63 Resp: 1437123

Ion Ratio Lower Upper

63 100

65 32.4 25.5 38.3

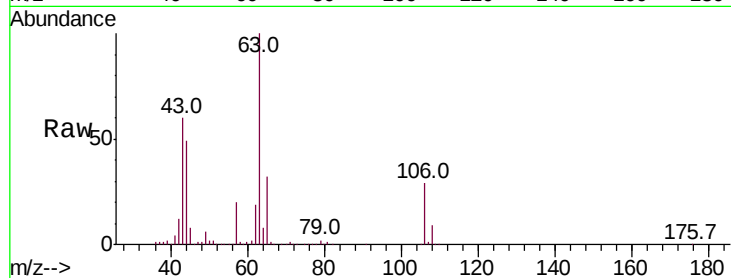
106 28.8 23.0 34.4

Manual Integrations

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MMDadoda

6/6/2019 10:19:43 AM

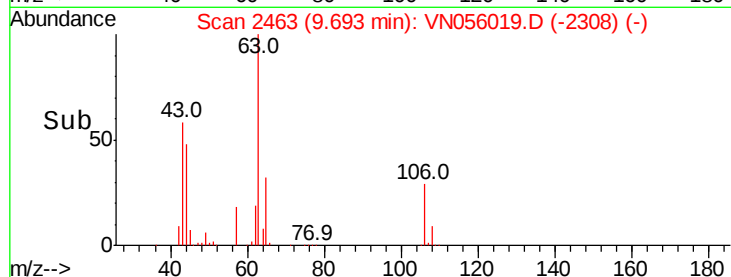


Abundance Ion 63.00 (62.70 to 63.70): VN056016.D (-2450) (-)

Ion 65.00 (64.70 to 65.70): VN056016.D (-2450) (-)

Ion 106.00 (105.70 to 106.70): VN056016.D (-2450) (-)

Time-->

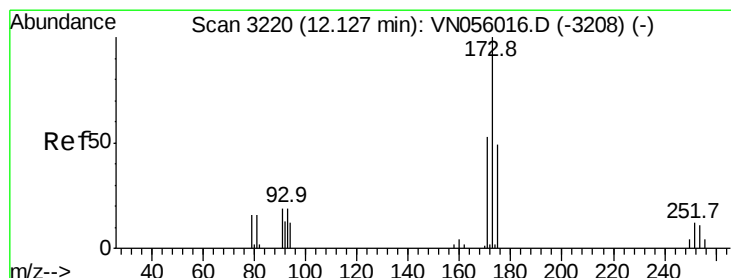


Abundance Ion 63.00 (62.70 to 63.70): VN056019.D (-2308) (-)

Ion 65.00 (64.70 to 65.70): VN056019.D (-2308) (-)

Ion 106.00 (105.70 to 106.70): VN056019.D (-2308) (-)

Time-->



#56

Bromoform

Concen: 141.294 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

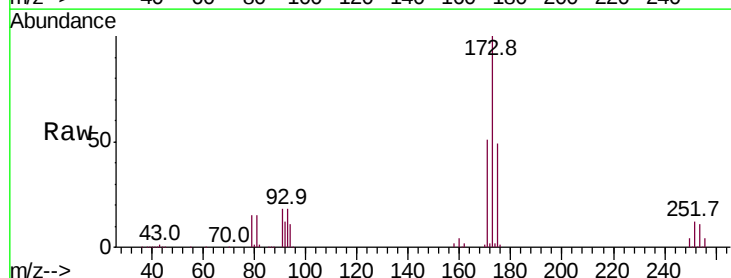
Tgt Ion: 173 Resp: 408459

Ion Ratio Lower Upper

173 100

175 48.9 38.7 58.1

254 11.2 6.6 9.8#

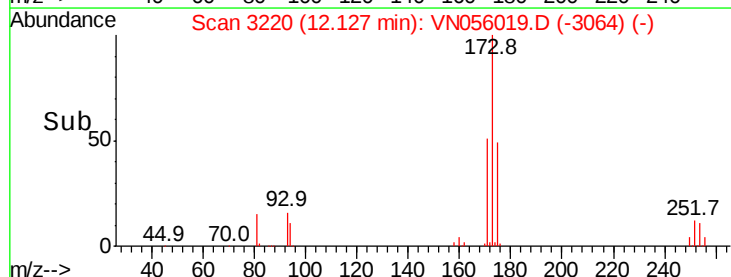


Abundance Ion 173.00 (172.70 to 173.70): VN056016.D (-3208) (-)

Ion 175.00 (174.70 to 175.70): VN056016.D (-3208) (-)

Ion 254.00 (253.70 to 254.70): VN056016.D (-3208) (-)

Time-->

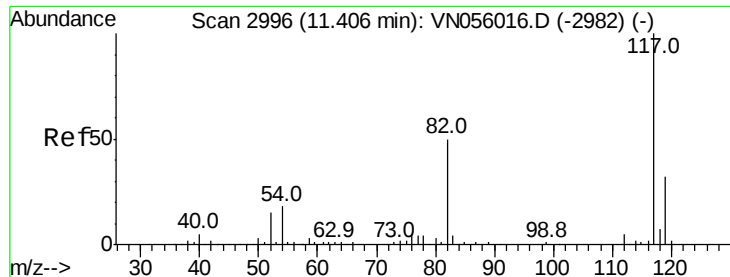


Abundance Ion 173.00 (172.70 to 173.70): VN056019.D (-3064) (-)

Ion 175.00 (174.70 to 175.70): VN056019.D (-3064) (-)

Ion 254.00 (253.70 to 254.70): VN056019.D (-3064) (-)

Time-->



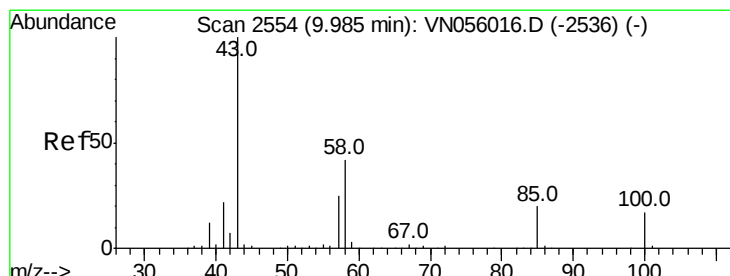
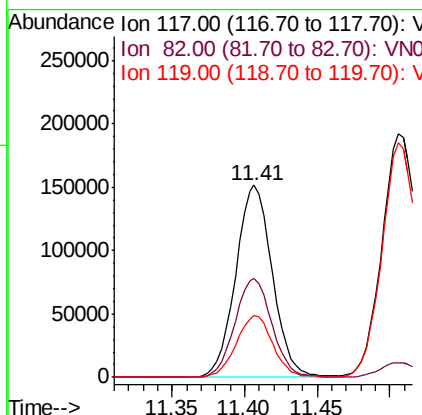
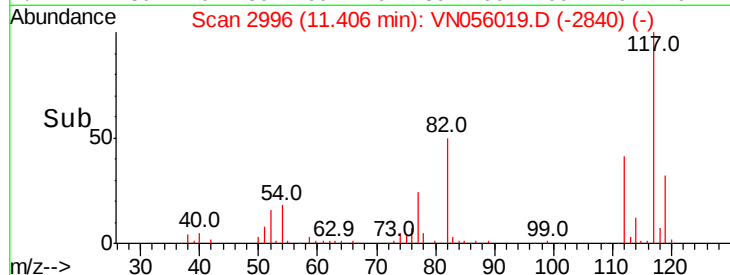
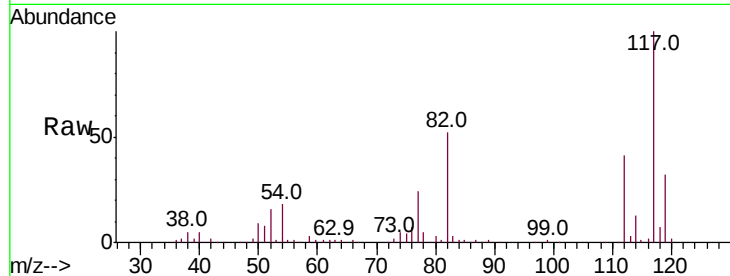
#57
 Chlorobenzene-d5
 Concen: 30.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion:	117	Resp:	266098
Ion Ratio	Lower	Upper	
117	100		
82	52.0	41.2	61.8
119	32.1	26.2	39.2

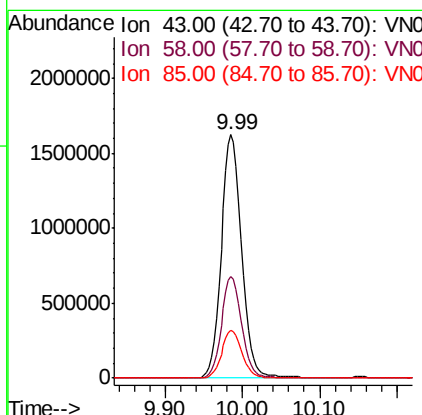
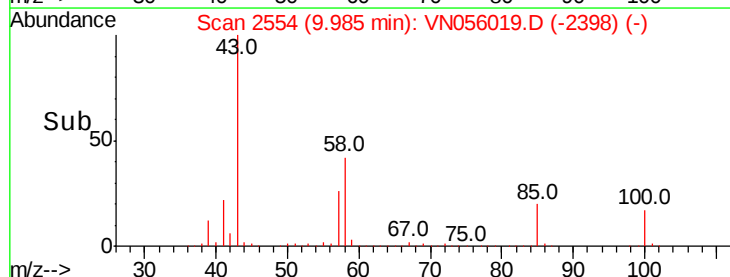
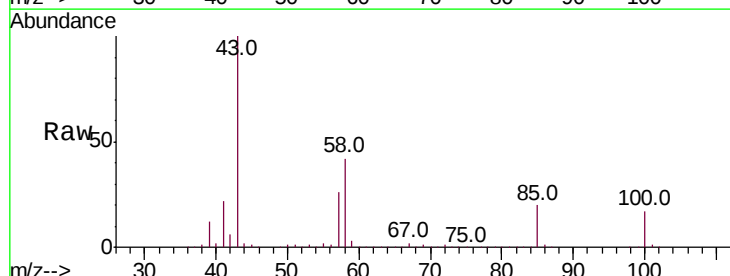
Manual Integrations
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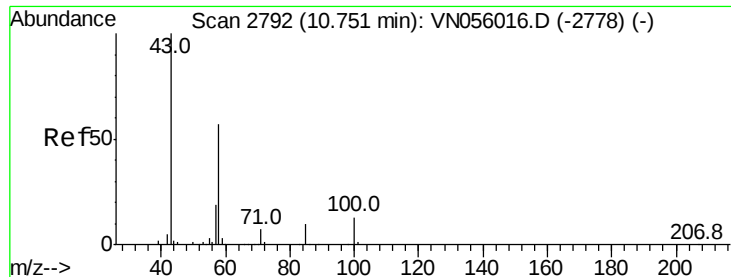
MMDadoda
 6/6/2019 10:19:43 AM



#58
 4-Methyl-2-Pentanone
 Concen: 692.134 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Tgt Ion:	43	Resp:	2977125
Ion Ratio	Lower	Upper	
43	100		
58	41.5	33.1	49.7
85	19.7	15.5	23.3





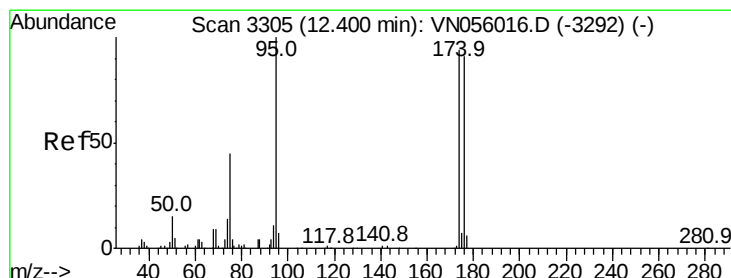
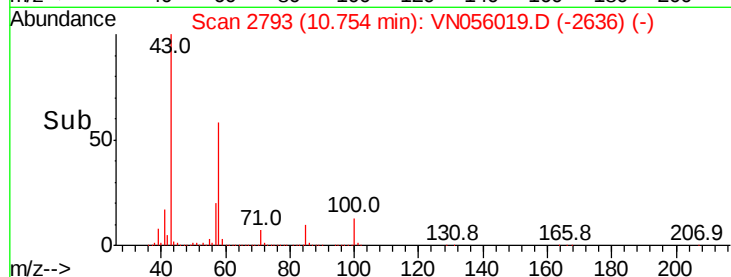
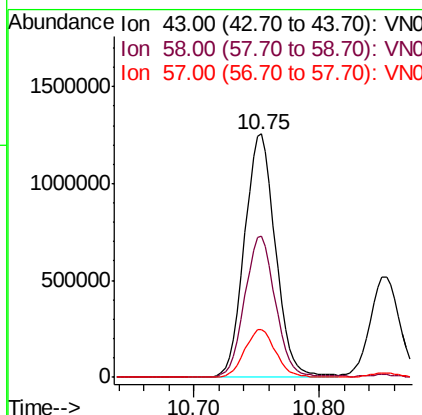
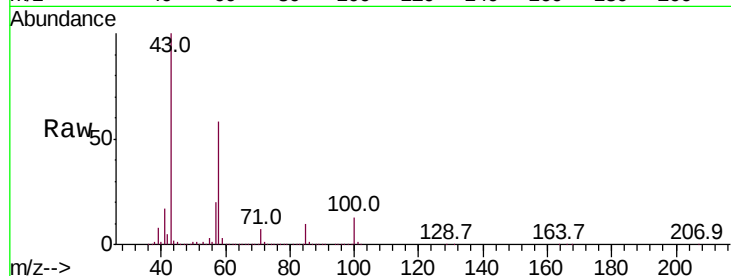
#59
2-Hexanone
Concen: 702.513 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
43	100		
58	57.9	45.3	67.9
57	19.8	15.6	23.4

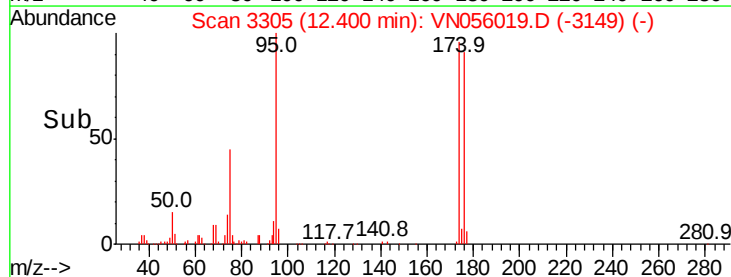
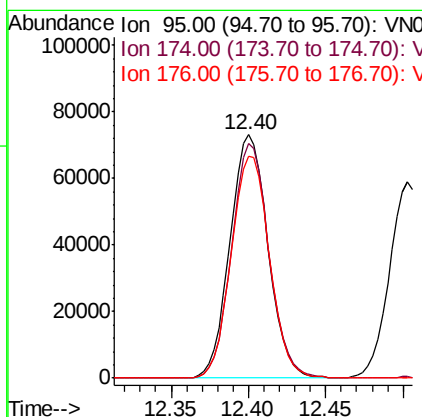
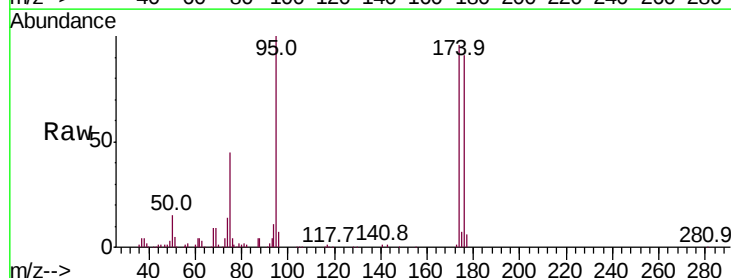
Manual Integrations
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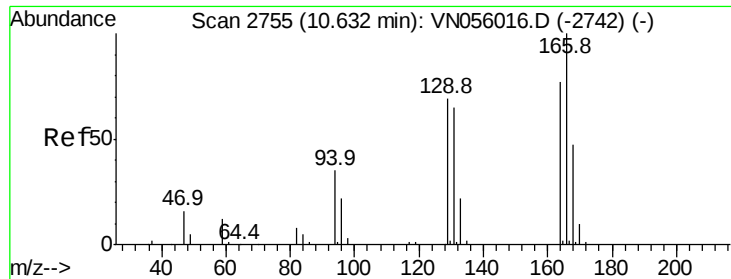
MMDadoda
6/6/2019 10:19:43 AM



#60
4-Bromofluorobenzene
Concen: 30.445 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.7	75.4	113.0
176	92.0	73.9	110.9





#61

Tetrachloroethene

Concen: 146.002 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:164 Resp: 527516

Ion Ratio Lower Upper

164 100

166 129.2 104.3 156.5

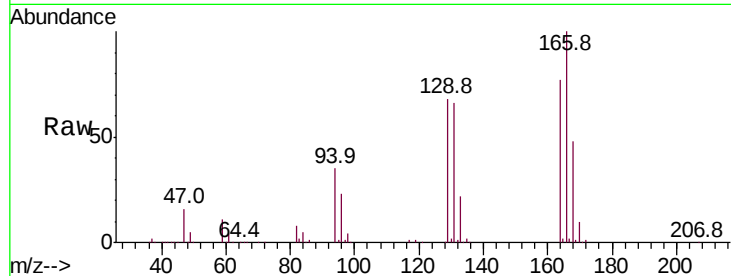
129 87.5 71.5 107.3

131 85.7 67.7 101.5

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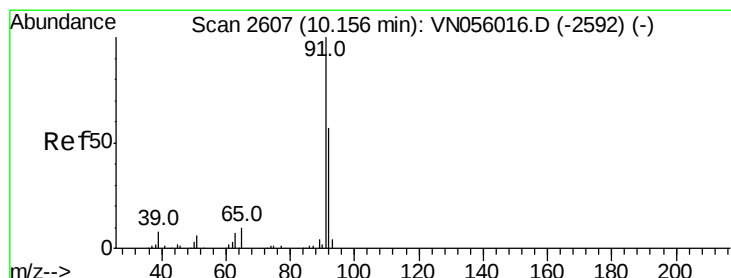
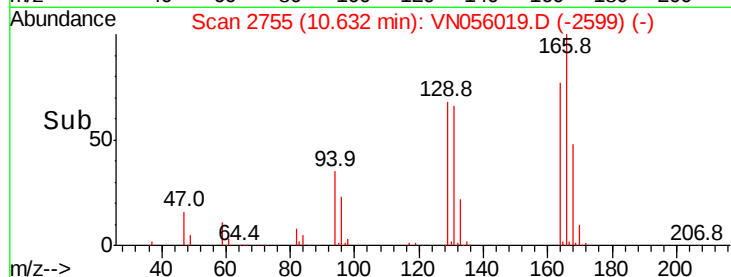
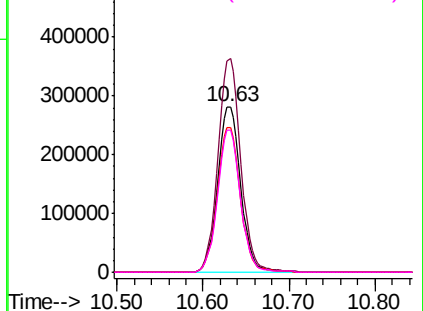


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 146.254 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN056019.D

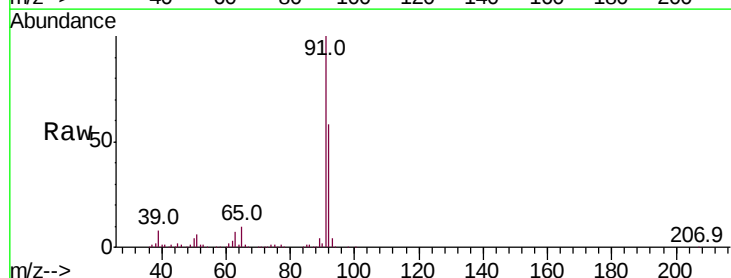
Acq: 5 Jun 2019 20:33

Tgt Ion: 91 Resp: 2087176

Ion Ratio Lower Upper

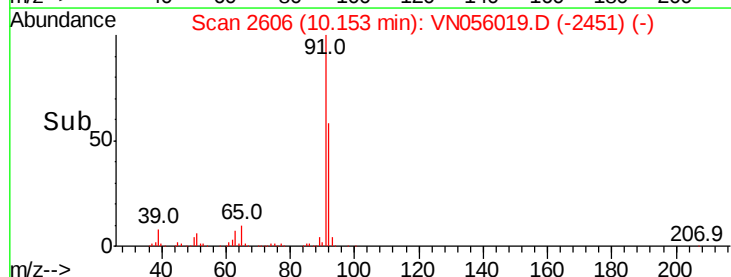
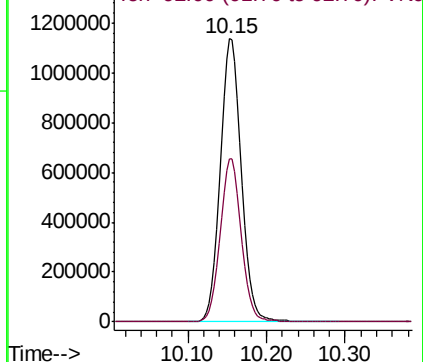
91 100

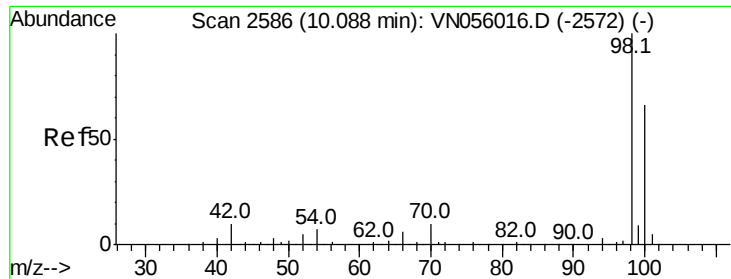
92 57.7 45.5 68.3



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 92.00 (91.70 to 92.70): VNO





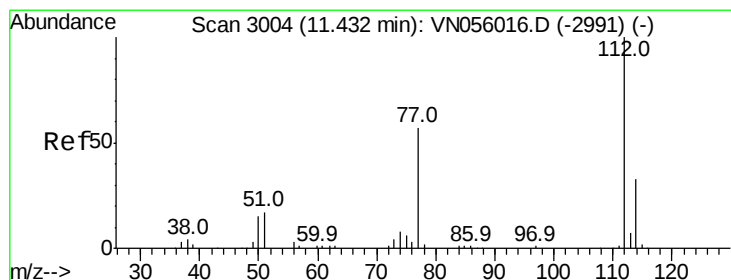
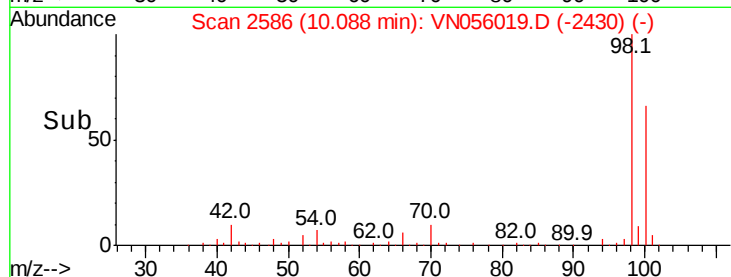
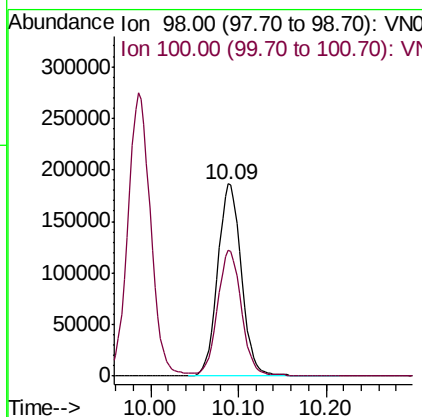
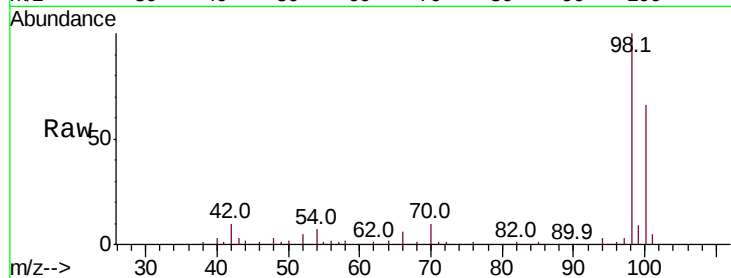
#63
Toluene-d8
Concen: 28.944 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 98 Resp: 351893
Ion Ratio Lower Upper
98 100
100 65.8 52.2 78.4

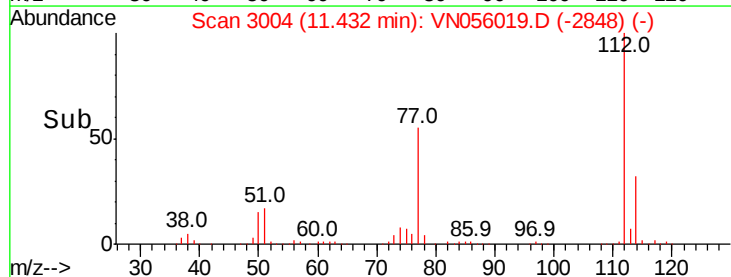
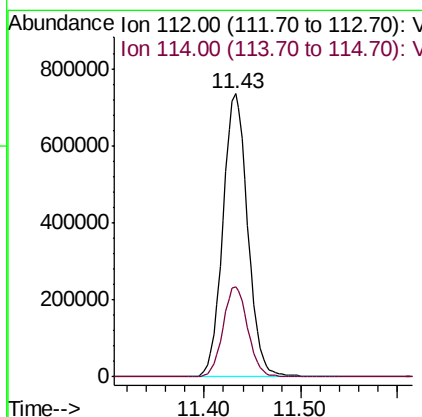
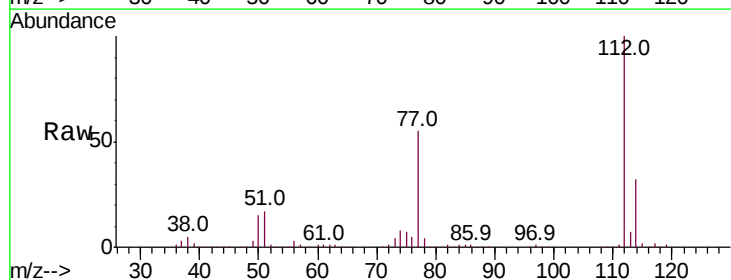
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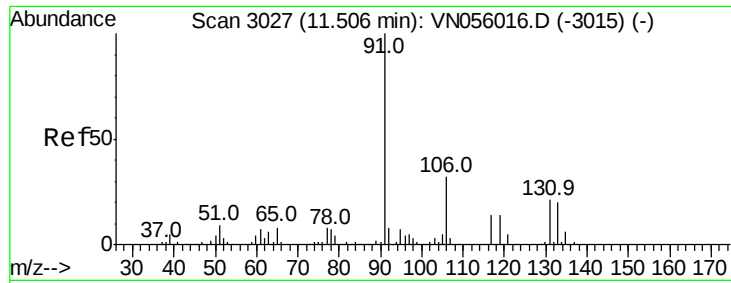
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#64
Chlorobenzene
Concen: 151.255 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion: 112 Resp: 1308309
Ion Ratio Lower Upper
112 100
114 31.9 26.1 39.1





#65

1,1,1,2-Tetrachloroethane

Concen: 143.013 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

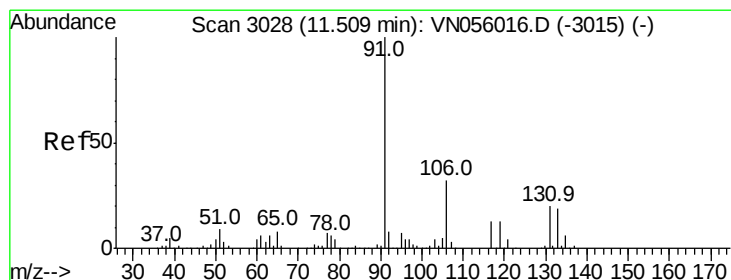
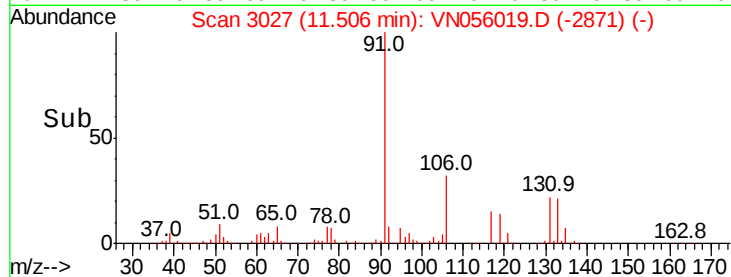
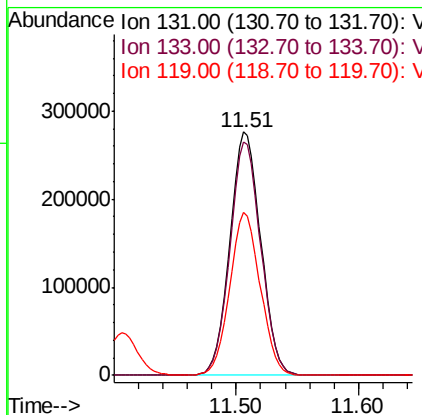
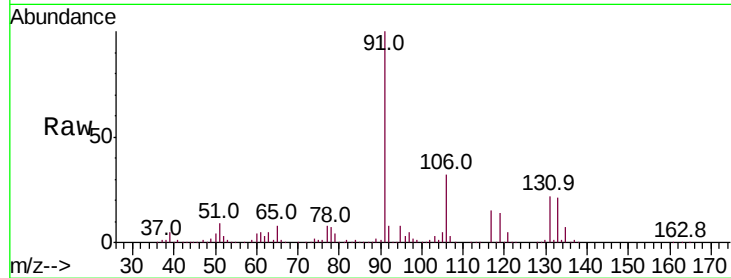
ClientSampleId :

VSTDIC150

Tot Ion:	131	Resp:	486445
Ion Ratio	Lower	Upper	
131	100		
133	95.7	0.0	193.8
119	66.2	0.0	134.4

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#66

Ethyl Benzene

Concen: 147.651 ug/l

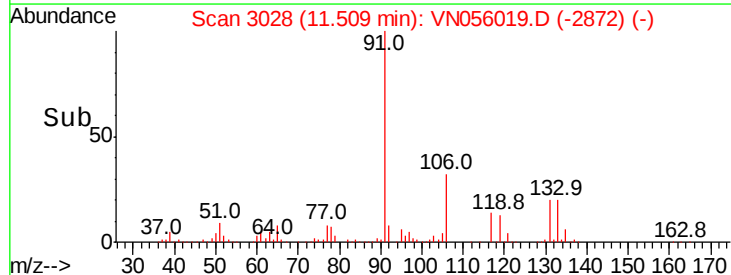
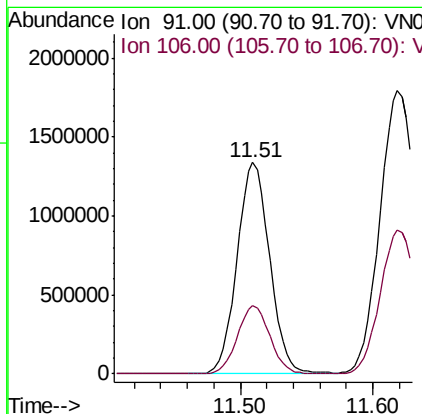
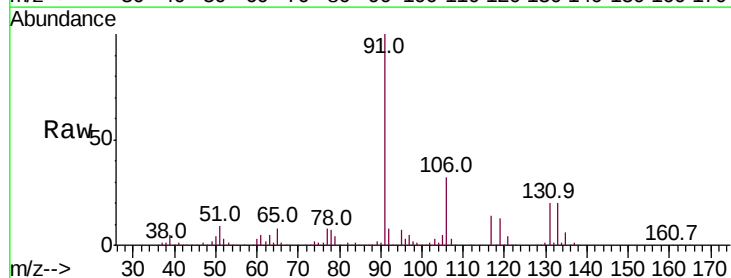
RT: 11.51 min Scan# 3028

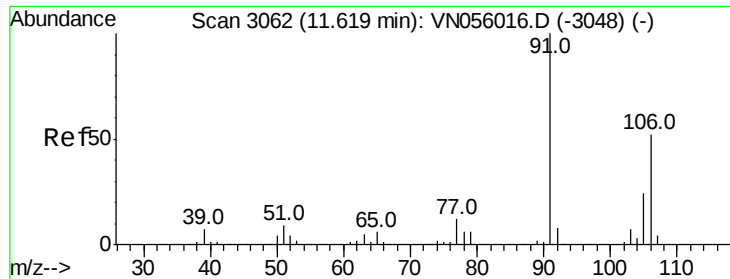
Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Tgt Ion:	91	Resp:	2290521
Ion Ratio	Lower	Upper	
91	100		
106	32.4	25.7	38.5





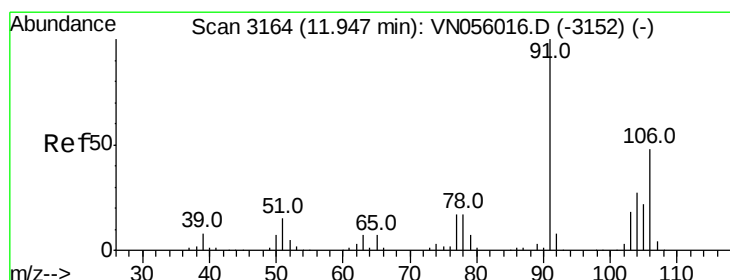
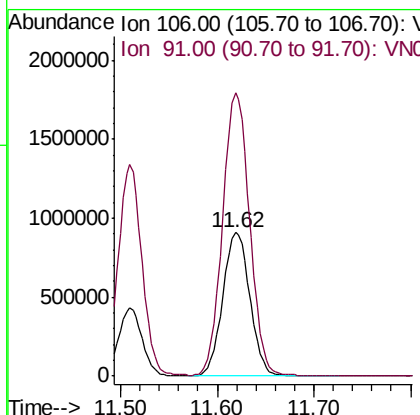
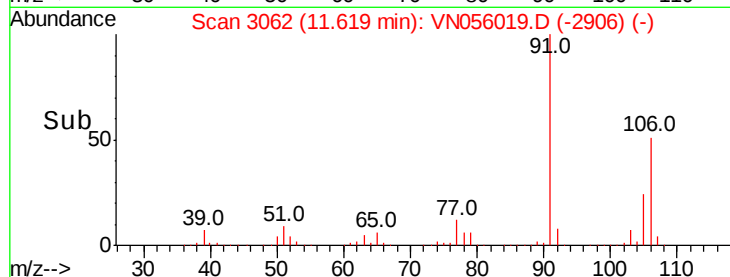
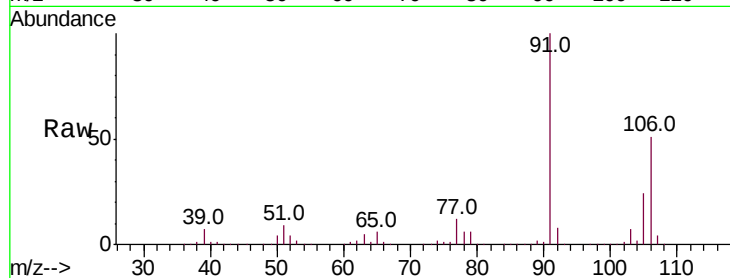
#67
m/p-Xylenes
Concen: 301.508 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:106 Resp: 1778098
Ion Ratio Lower Upper
106 100
91 196.5 155.7 233.5

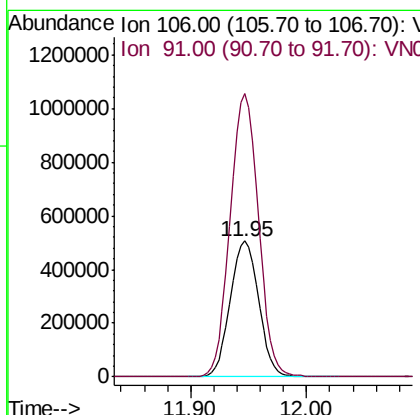
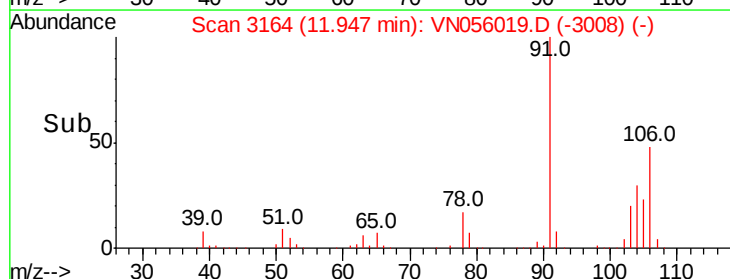
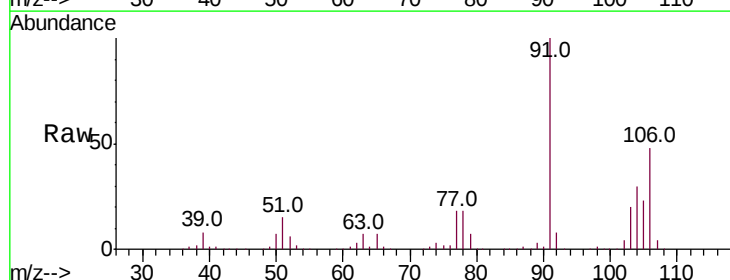
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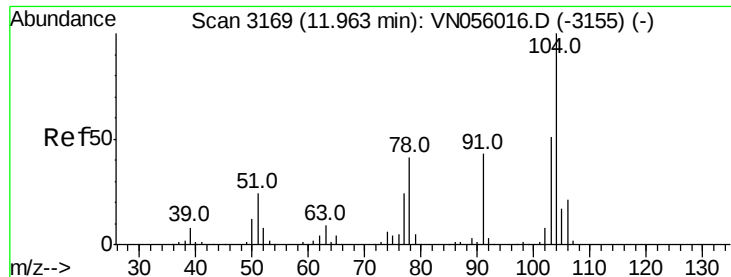
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#68
o-Xylene
Concen: 148.096 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion:106 Resp: 862151
Ion Ratio Lower Upper
106 100
91 206.7 103.9 311.7





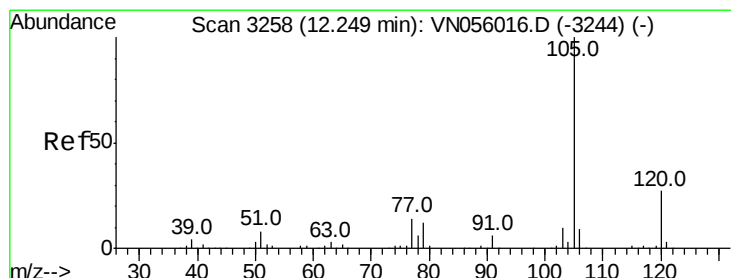
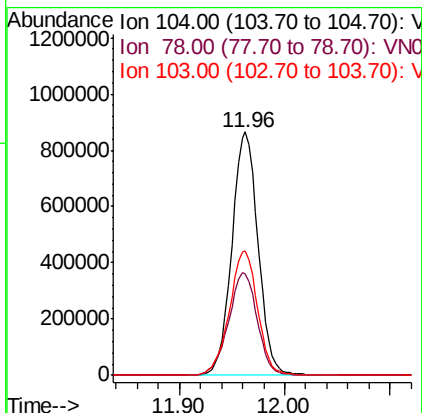
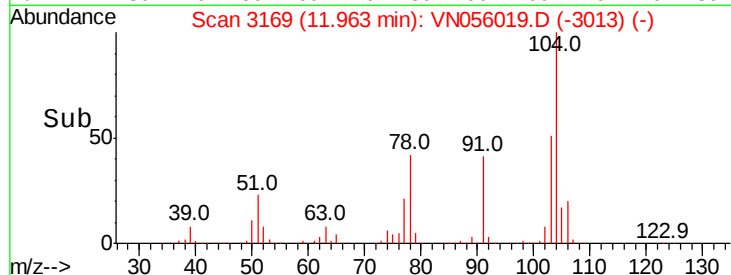
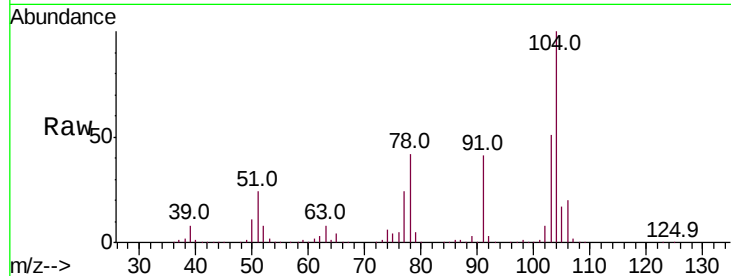
#69
Stvrene
Concen: 155.365 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion:104 Resp: 1487457
Ion Ratio Lower Upper
104 100
78 46.1 37.0 55.6
103 54.8 44.4 66.6

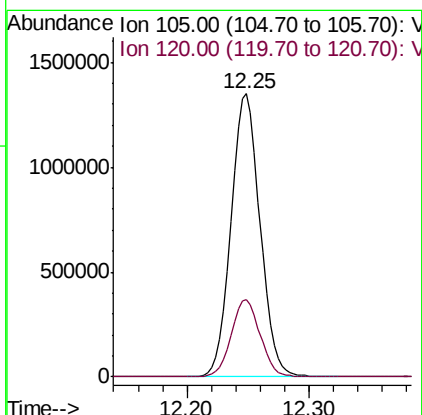
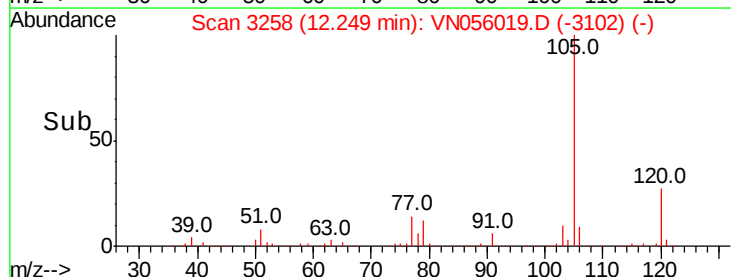
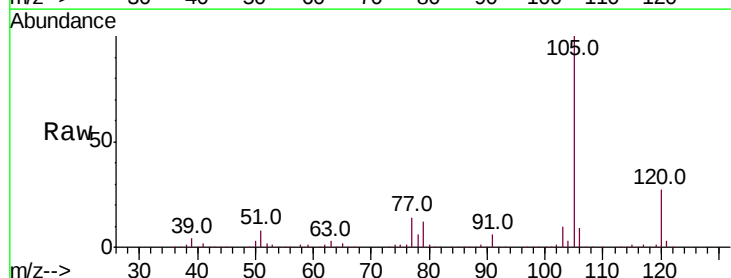
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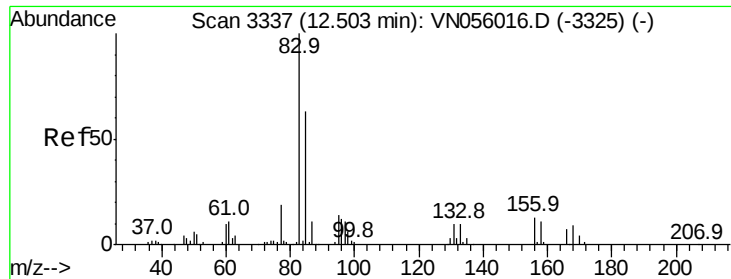
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#70
Isopropylbenzene
Concen: 146.258 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion:105 Resp: 2229572
Ion Ratio Lower Upper
105 100
120 27.2 19.3 35.8





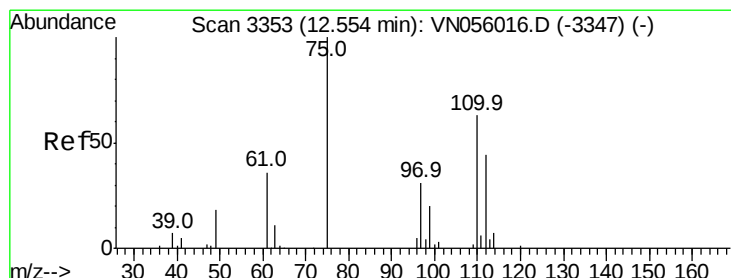
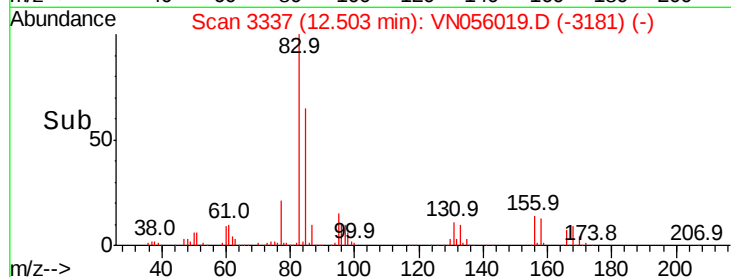
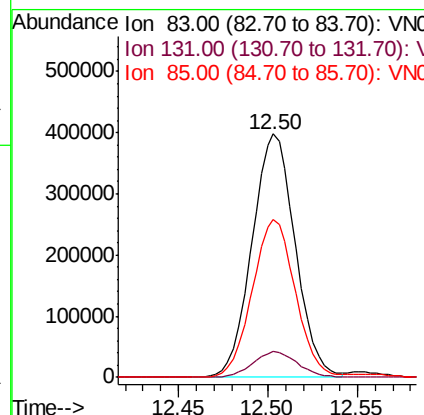
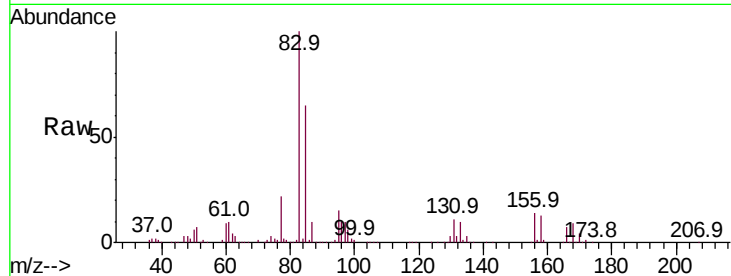
#71
 1,1,2,2-Tetrachloroethane
 Concen: 143.897 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
83	100		
131	11.0	5.2	15.6
85	64.8	31.6	94.7

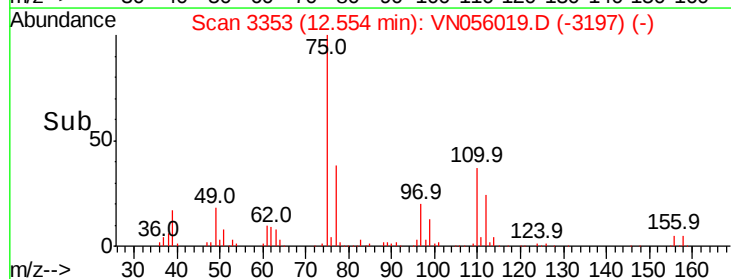
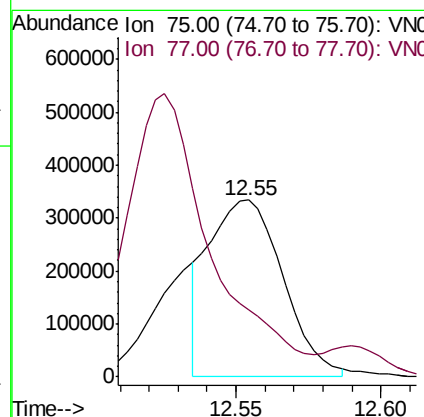
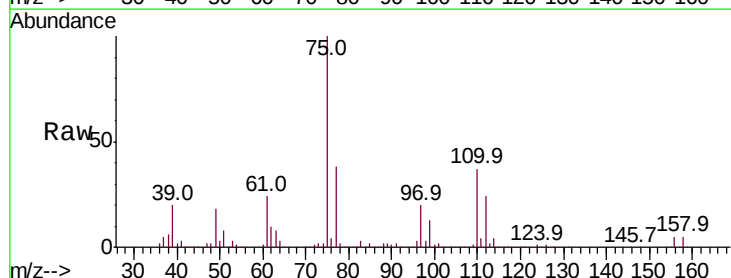
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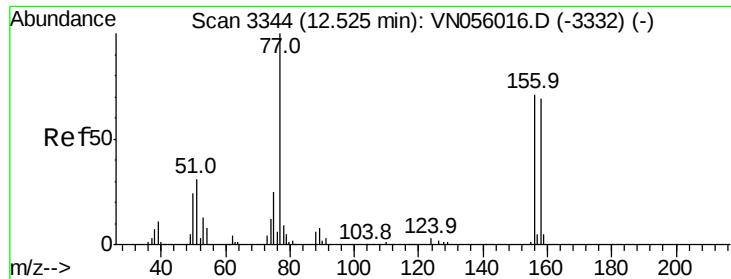
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#72
 1,2,3-Trichloropropane
 Concen: 148.215 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
75	100		
77	185.3	0.0	350.0





#73

Bromobenzene

Concen: 154.180 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

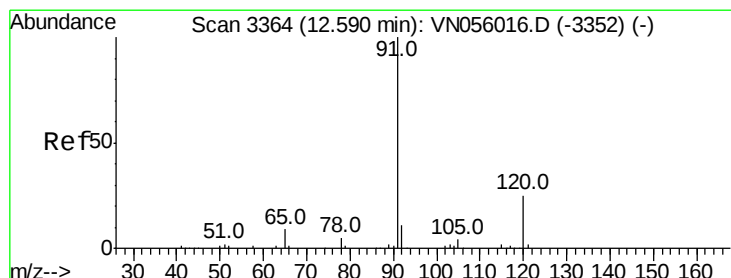
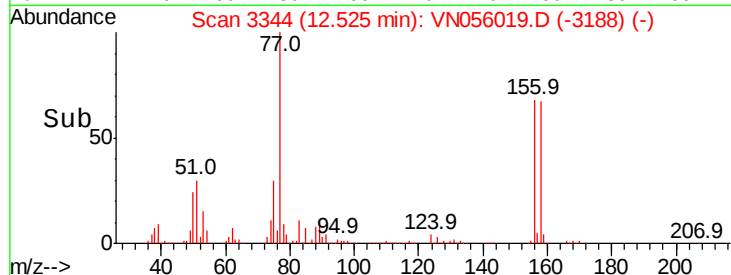
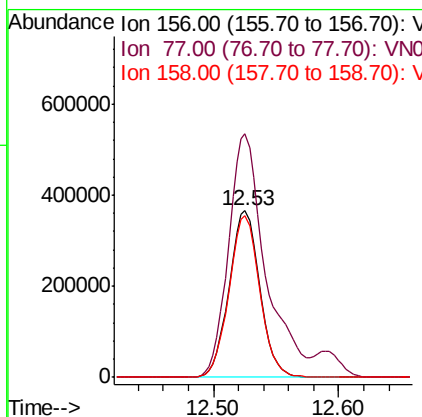
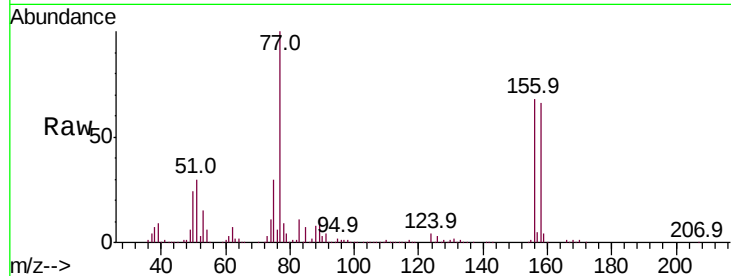
ClientSampled :

VSTDIC150

Tot Ion:	156	Resp:	621548
Ion Ratio	Lower	Upper	
156	100		
77	176.5	0.0	350.8
158	97.2	0.0	193.2

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#74

n-propylbenzene

Concen: 154.223 ug/l

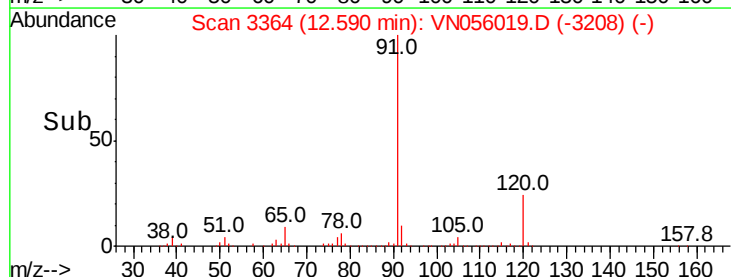
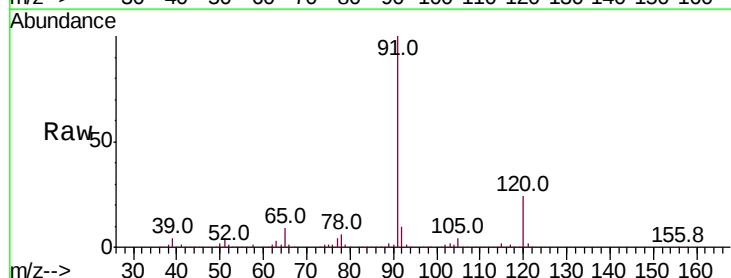
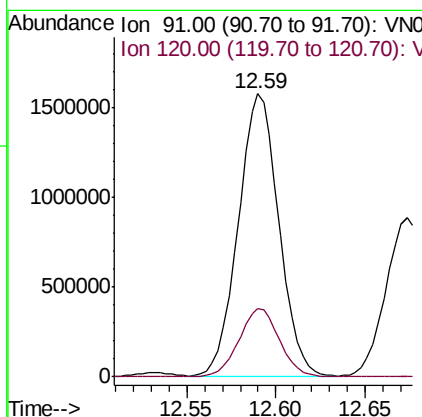
RT: 12.59 min Scan# 3364

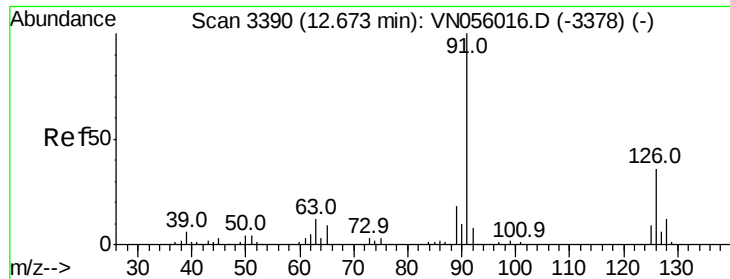
Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Tgt Ion:	91	Resp:	2516597
Ion Ratio	Lower	Upper	
91	100		
120	24.2	0.0	48.6





#75

2-Chlorotoluene

Concen: 149.036 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 91 Resp: 1488812

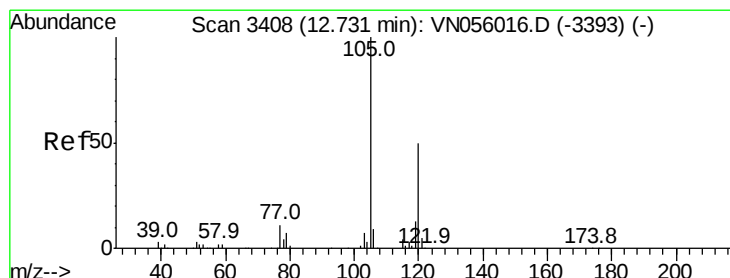
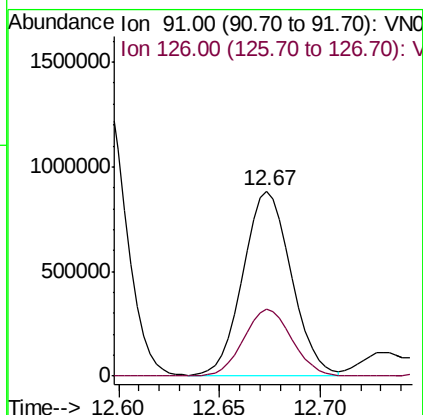
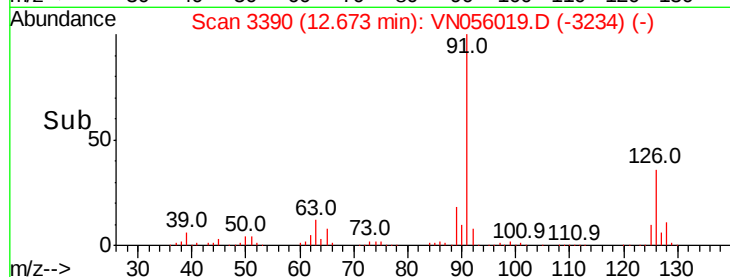
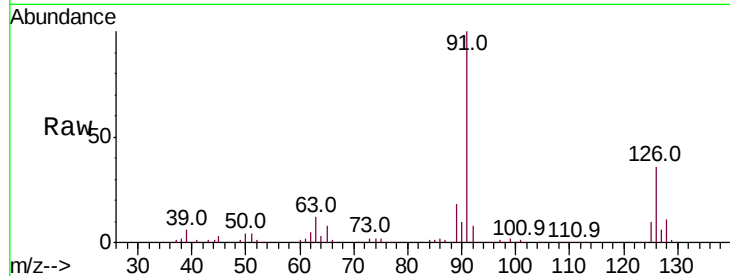
Ion Ratio Lower Upper

91 100

126 36.1 0.0 72.4

Manual Integrations
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#76

1,3,5-Trimethylbenzene

Concen: 150.828 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056019.D

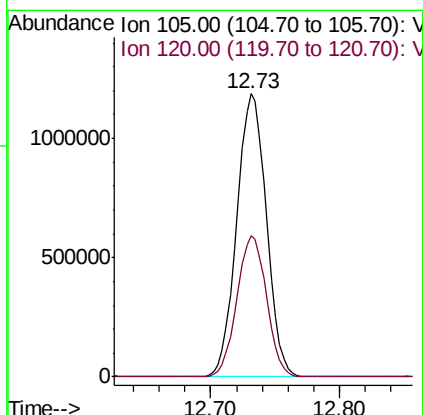
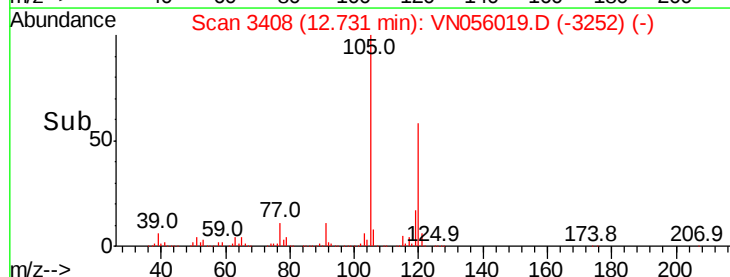
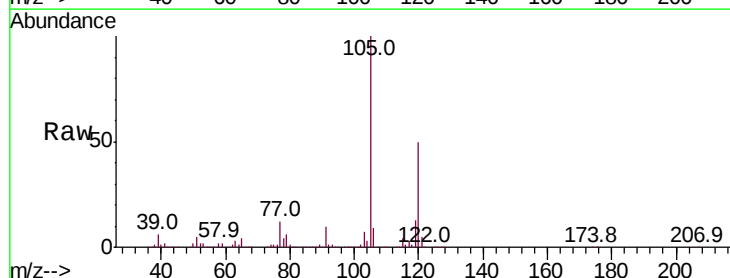
Acq: 5 Jun 2019 20:33

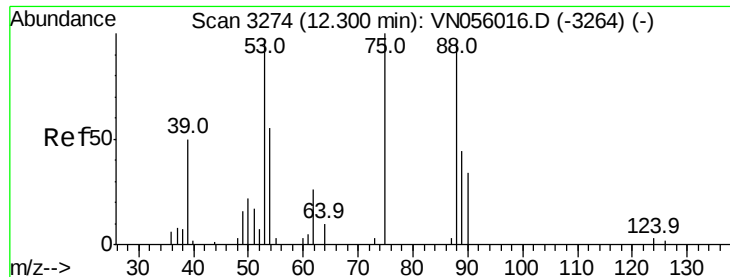
Tgt Ion: 105 Resp: 1894438

Ion Ratio Lower Upper

105 100

120 49.8 0.0 100.6





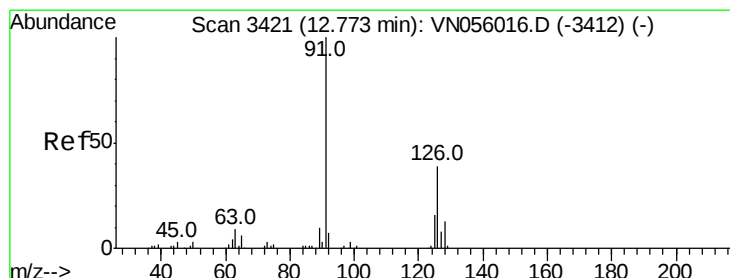
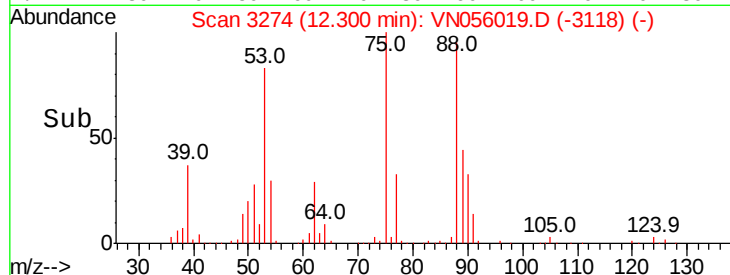
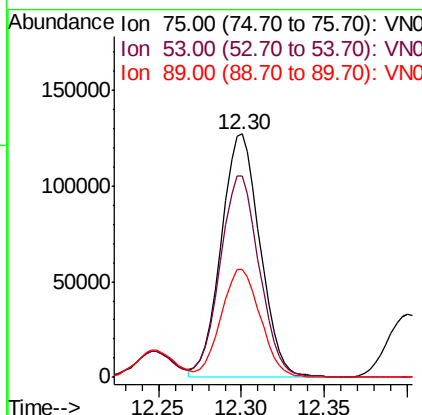
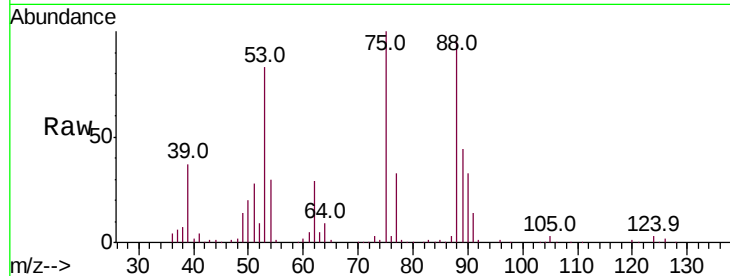
#77
t-1,4-Dichloro-2-butene
Concen: 139.236 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
53	82.9	48.0	144.0
89	44.5	22.5	67.5

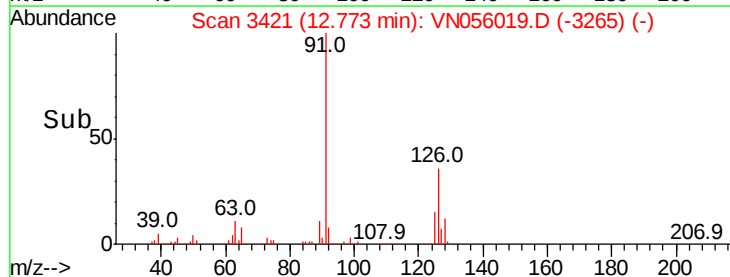
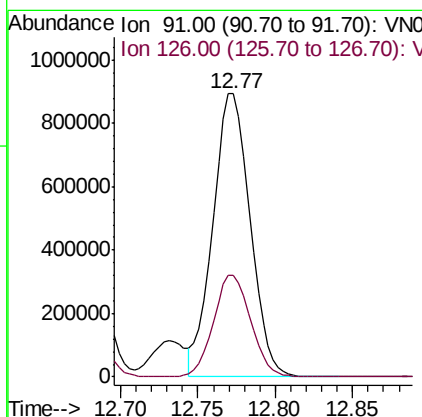
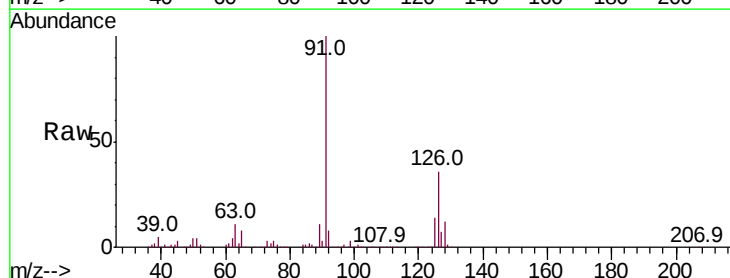
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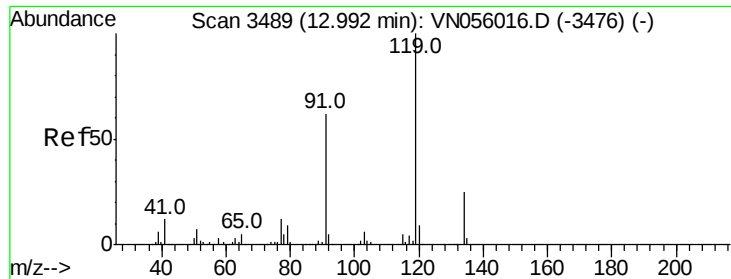
MMDadoda
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#78
4-Chlorotoluene
Concen: 158.916 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.7	0.0	71.8





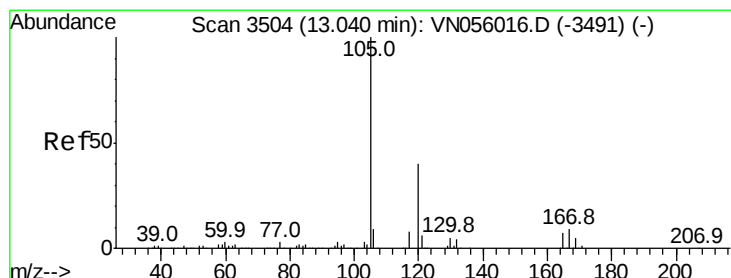
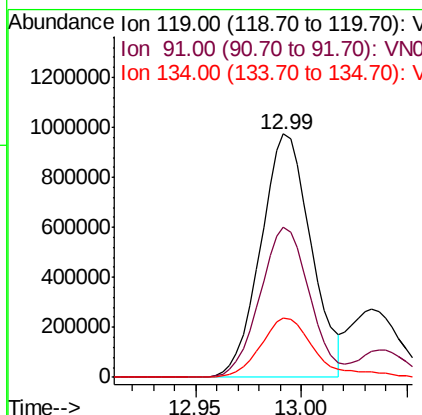
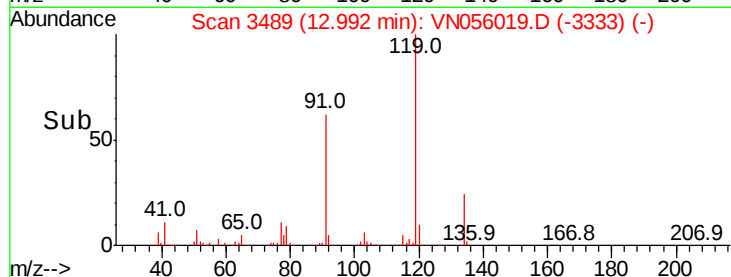
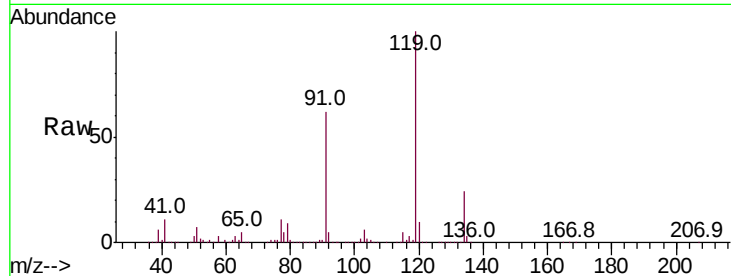
#79
tert-butylbenzene
Concen: 146.605 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.1	0.0	122.8
134	26.5	0.0	50.2

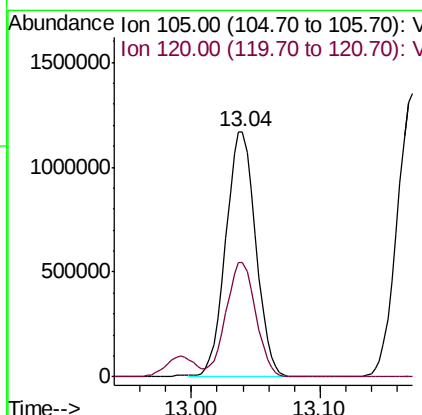
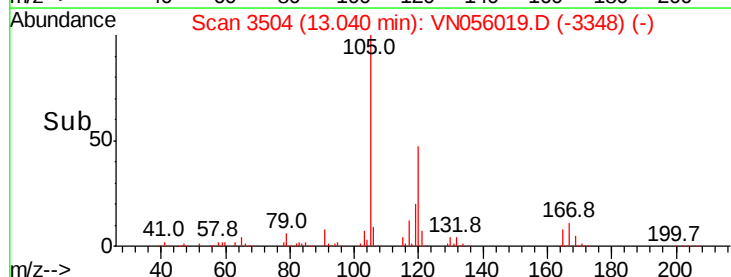
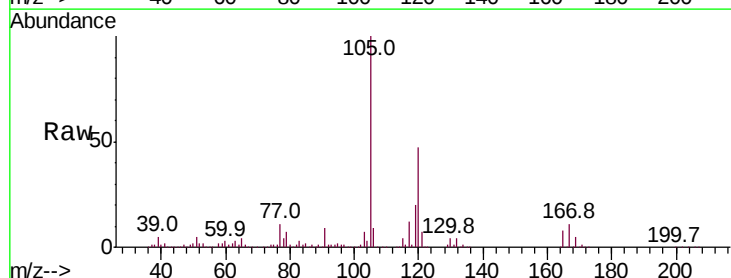
Manual Integrations
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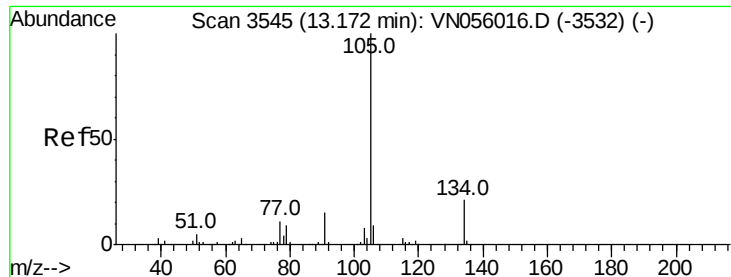
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 151.624 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	0.0	93.4





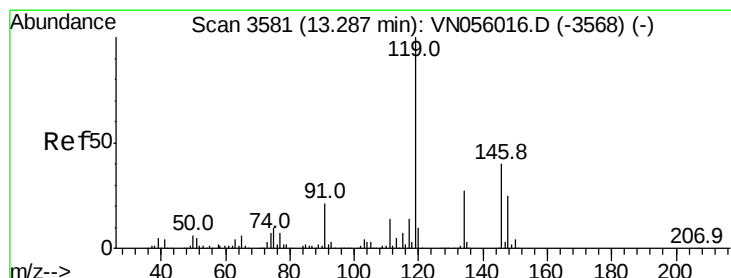
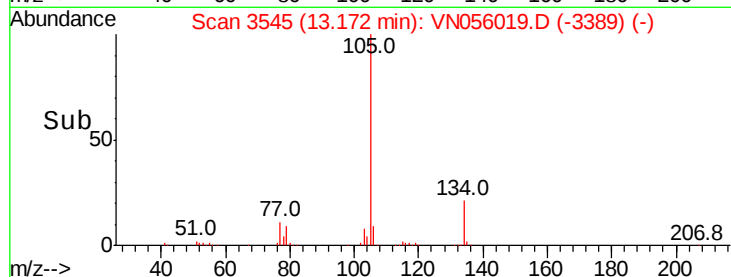
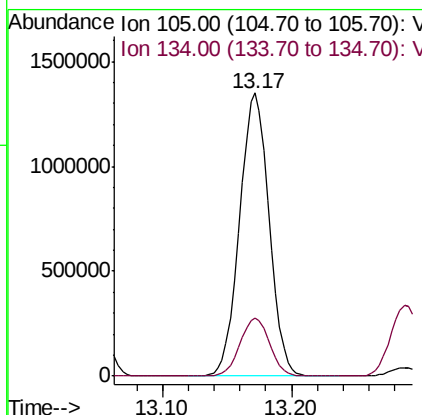
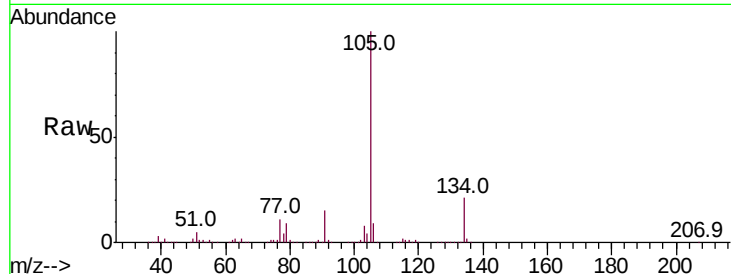
#81
 sec-Butylbenzene
 Concen: 152.586 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion:105 Resp: 2139421
 Ion Ratio Lower Upper
 105 100
 134 20.6 0.0 41.8

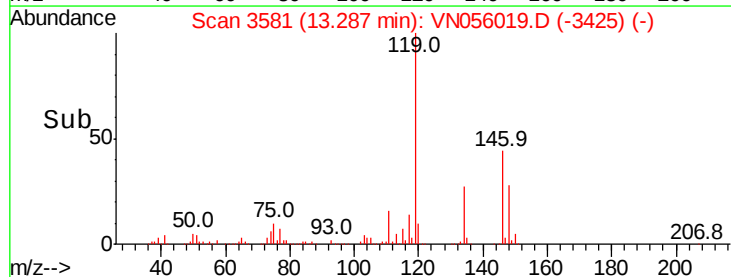
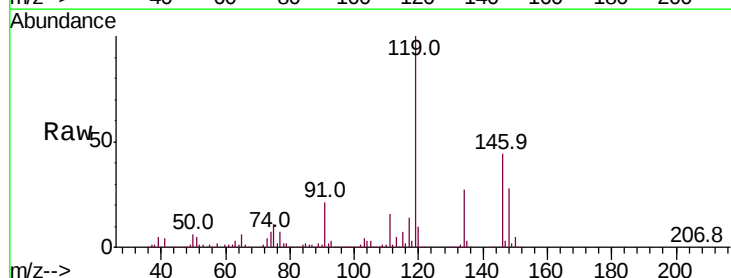
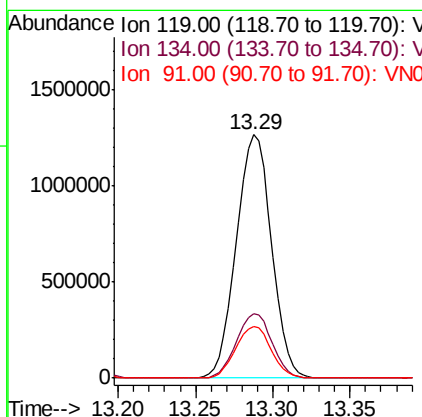
Manual Integrations
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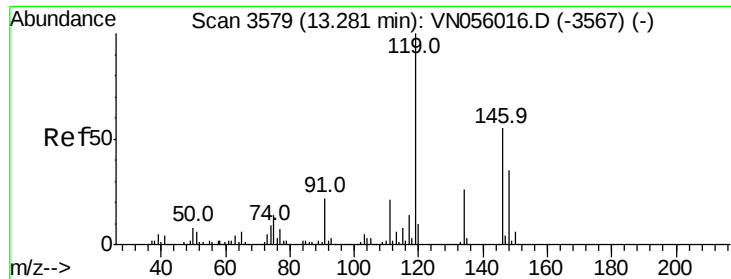
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#82
 p-Isopropyltoluene
 Concen: 155.556 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Tgt Ion:119 Resp: 1998051
 Ion Ratio Lower Upper
 119 100
 134 26.7 0.0 53.4
 91 21.3 0.0 43.0





#83
 1,3-Dichlorobenzene
 Concen: 166.966 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

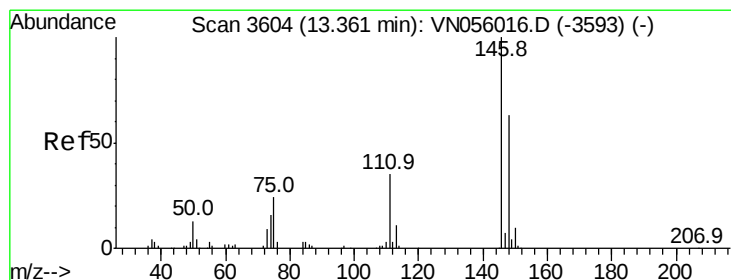
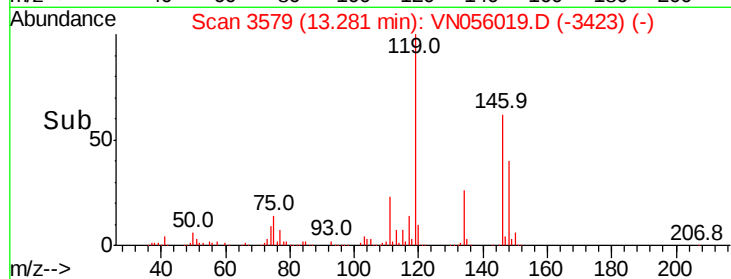
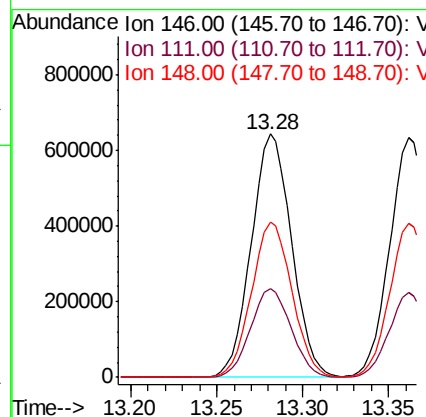
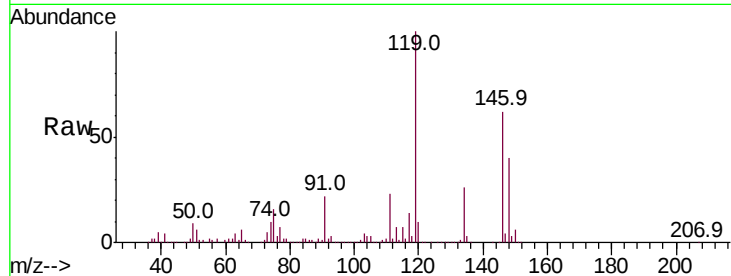
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion:146 Resp: 1049007

Ion	Ratio	Lower	Upper
146	100		
111	36.5	18.2	54.6
148	63.9	31.9	95.9

Manual Integrations
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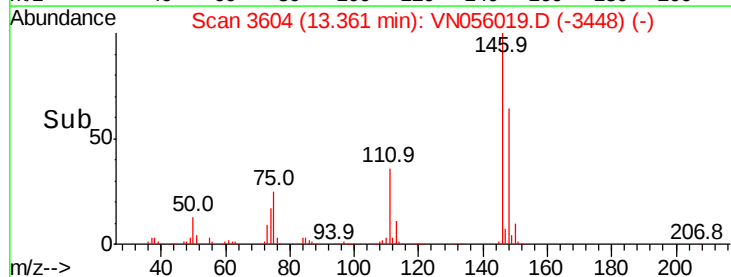
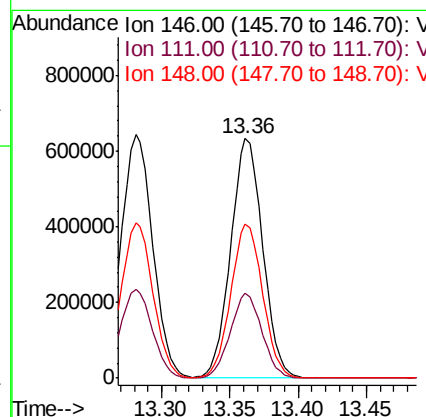
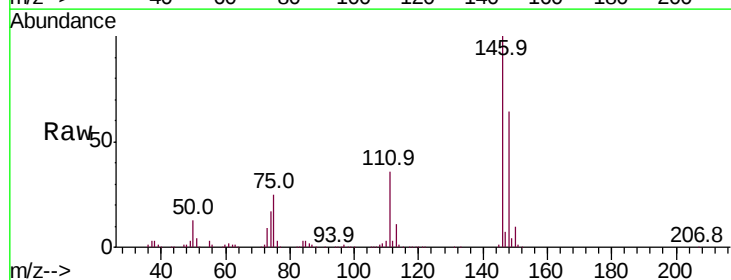
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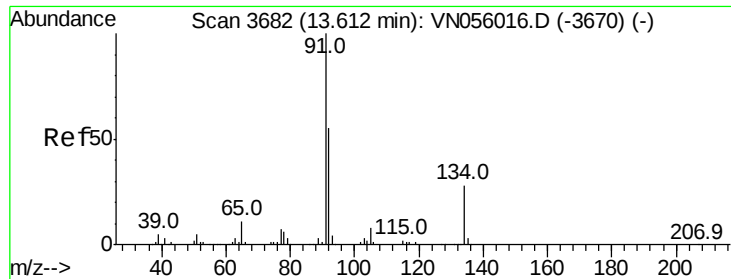


#84
 1,4-Dichlorobenzene
 Concen: 172.834 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Tgt Ion:146 Resp: 1030494

Ion	Ratio	Lower	Upper
146	100		
111	35.0	17.6	52.9
148	64.3	32.1	96.3





#85

n-Butylbenzene

Concen: 166.550 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN056019.D

Acq: 5 Jun 2019 20:33

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 91 Resp: 1643685

Ion Ratio Lower Upper

91 100

92 52.9 0.0 107.2

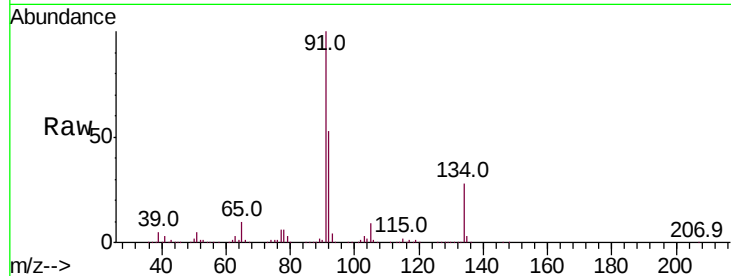
134 27.9 0.0 55.8

Manual Integrations

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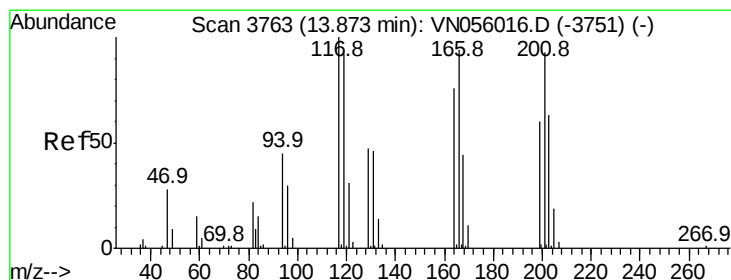
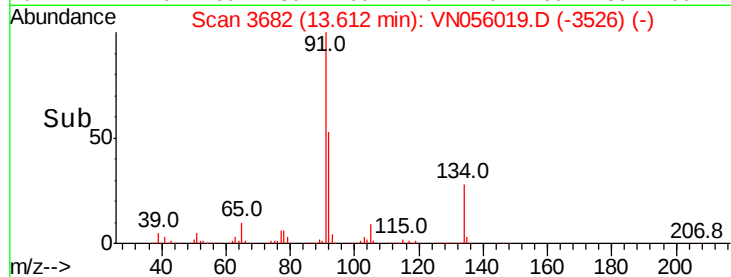
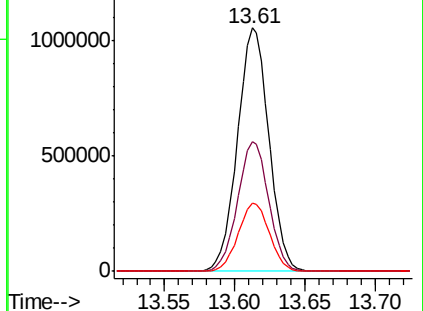
6/6/2019 10:19:43 AM



Abundance Ion 91.00 (90.70 to 91.70): VN056019.D (-3670) (-)

Ion 92.00 (91.70 to 92.70): VN056019.D (-3670) (-)

Ion 134.00 (133.70 to 134.70): VN056019.D (-3670) (-)



#86

Hexachloroethane

Concen: 137.520 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN056019.D

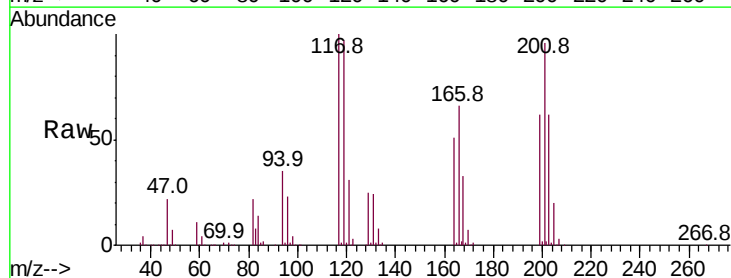
Acq: 5 Jun 2019 20:33

Tgt Ion: 117 Resp: 330916

Ion Ratio Lower Upper

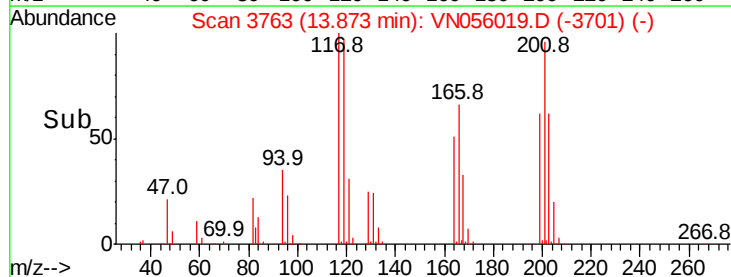
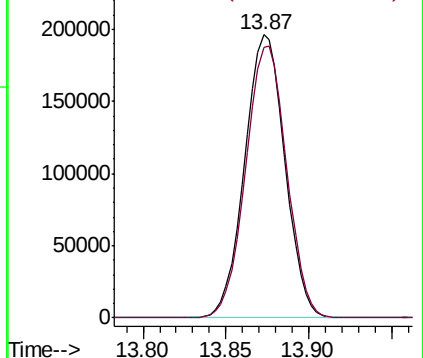
117 100

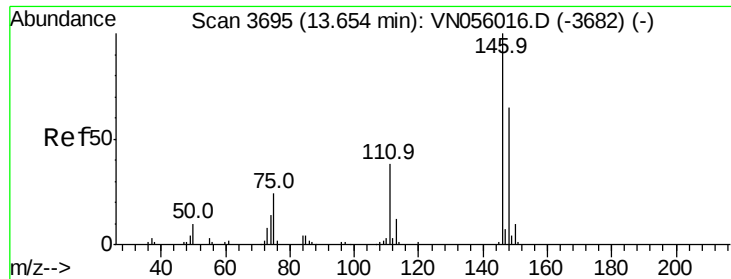
201 97.5 48.1 144.4



Abundance Ion 117.00 (116.70 to 117.70): VN056019.D (-3751) (-)

Ion 201.00 (200.70 to 201.70): VN056019.D (-3751) (-)





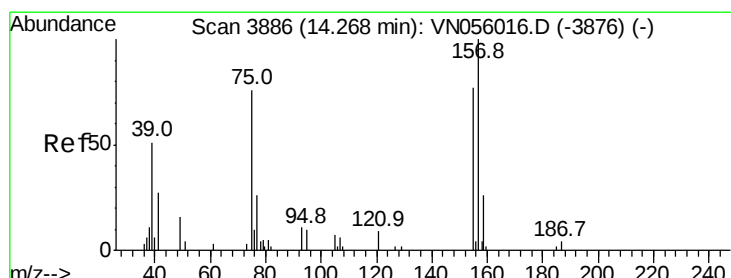
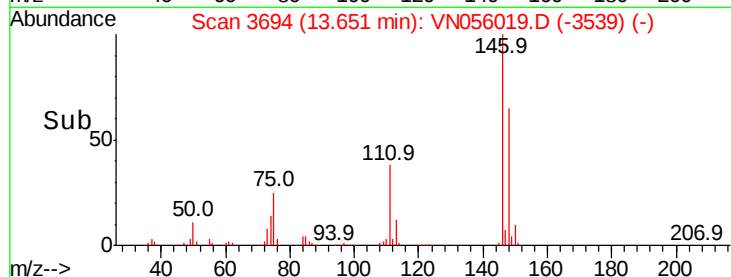
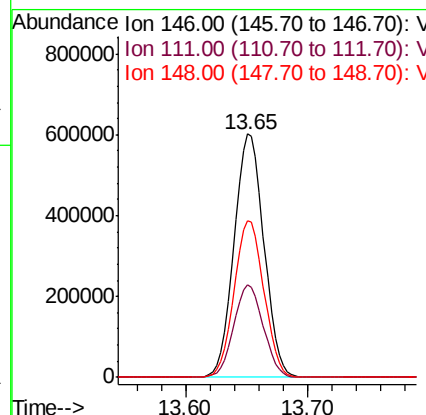
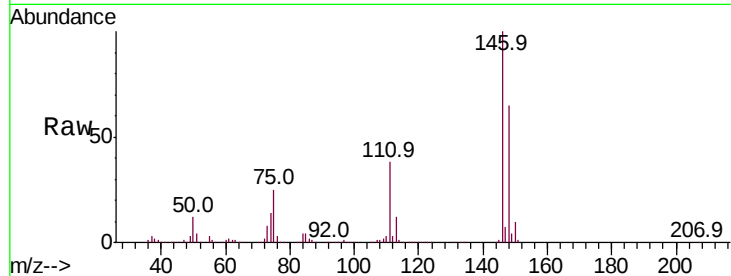
#87
 1,2-Dichlorobenzene
 Concen: 161.607 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.3	57.9
148	64.3	32.6	97.8

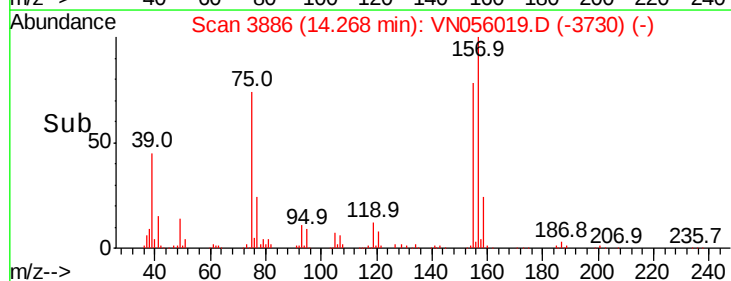
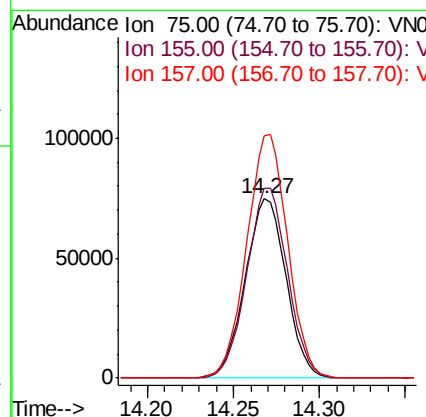
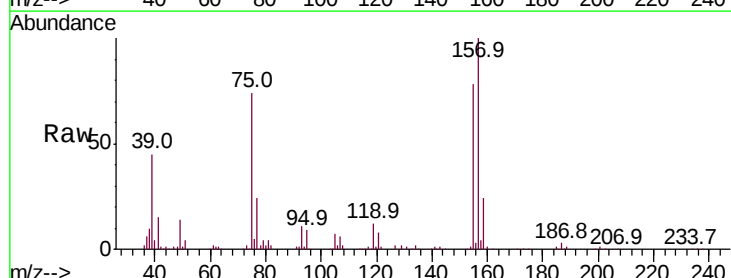
Manual Integrations
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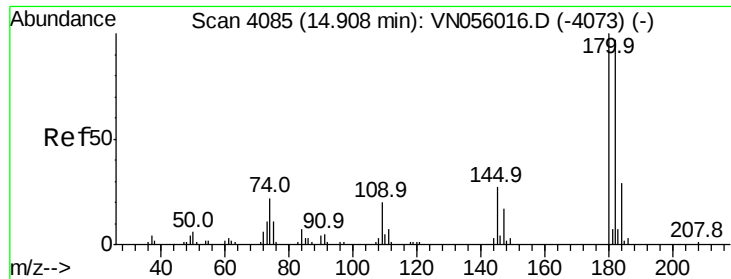
MMDadoda
 6/6/2019 10:19:43 AM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 146.949 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN056019.D
 Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
75	100		
155	105.6	82.5	123.7
157	135.5	105.1	157.7





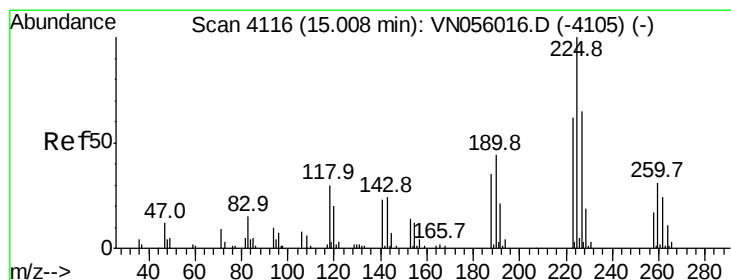
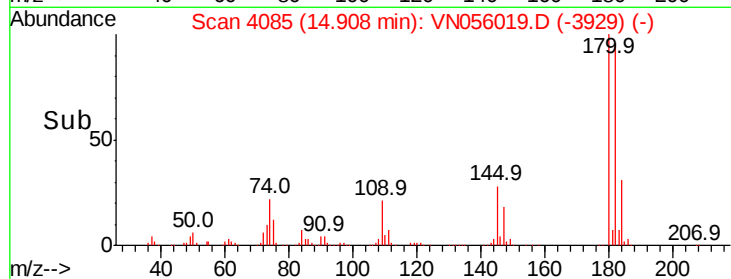
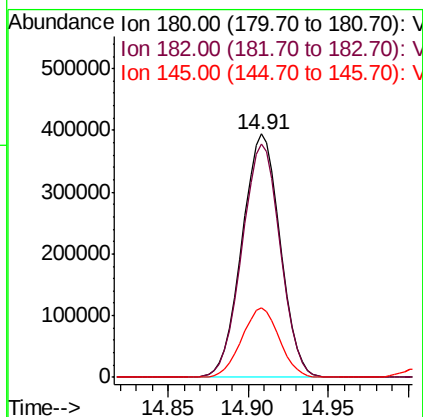
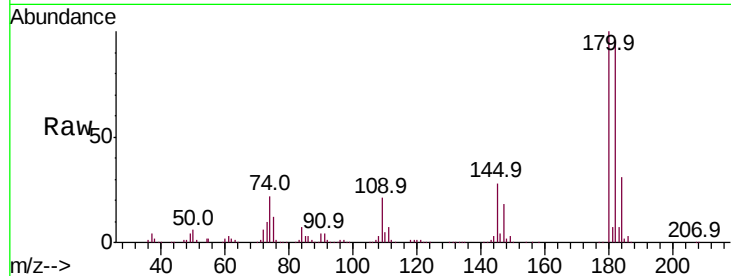
#89
1,2,4-Trichlorobenzene
Concen: 192.144 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.0	112.6
145	28.2	22.1	33.1

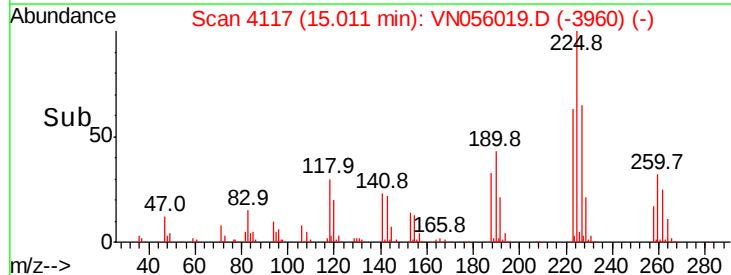
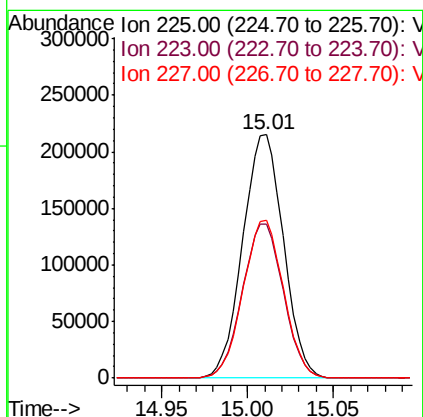
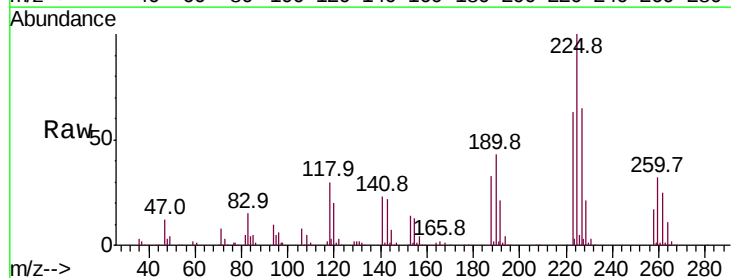
Manual Integrations
APPROVED

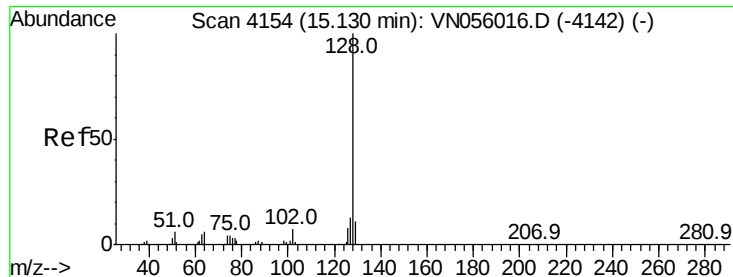
MMDadoda
6/6/2019 10:19:43 AM



#90
Hexachlorobutadiene
Concen: 141.755 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	0.0	125.6
227	64.2	0.0	128.6





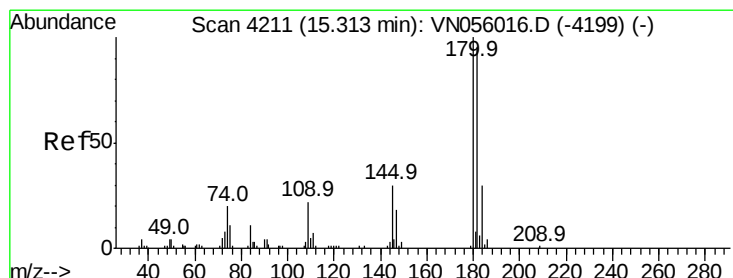
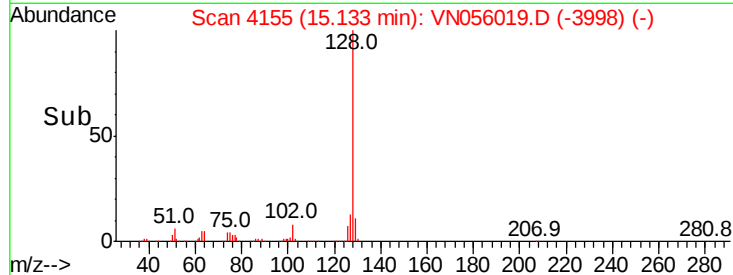
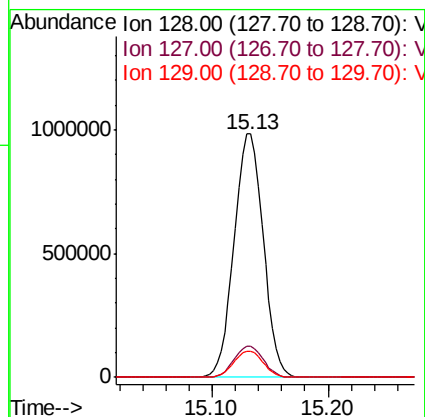
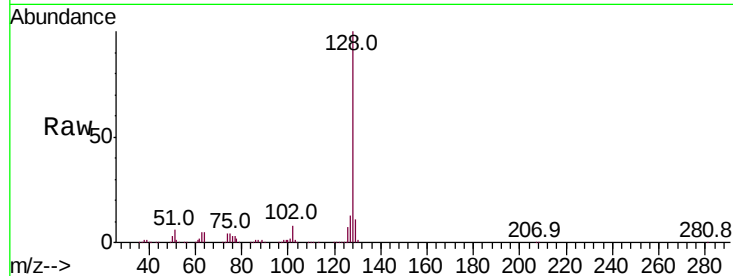
#91
Naphthalene
Concen: 188.008 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
6/6/2019 10:19:43 AM



#92
1,2,3-Trichlorobenzene
Concen: 183.697 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN056019.D
Acq: 5 Jun 2019 20:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	0.0	193.4
145	29.8	0.0	59.8

