

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054515.D
 Acq On : 21 Mar 2019 17:05
 Operator : JC/SP
 Sample : VN0321WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 4:15:32 PM

Quant Time: Mar 22 10:40:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	521846	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	857349	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	725269	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	301515	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	342346	52.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.48%	
35) Dibromofluoromethane	7.59	113	267332	48.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.80%	
50) Toluene-d8	10.09	98	1003264	48.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.64%	
62) 4-Bromofluorobenzene	12.40	95	332455	47.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	104781	21.004	ug/l	99
3) Chloromethane	2.06	50	144013	21.217	ug/l	99
4) Vinyl Chloride	2.19	62	141572	20.775	ug/l	98
5) Bromomethane	2.58	94	82670	18.761	ug/l	100
6) Chloroethane	2.71	64	77818	19.038	ug/l	94
7) Trichlorofluoromethane	3.02	101	170079	20.551	ug/l	99
8) Diethyl Ether	3.41	74	62452	19.621	ug/l	72
9) 1,1,2-Trichlorotrifluoroet	3.75	101	93401	19.203	ug/l	93
10) Methyl Iodide	3.95	142	133267	18.627	ug/l	94
11) Tert butyl alcohol	4.82	59	43822	111.513	ug/l	98
12) 1,1-Dichloroethene	3.73	96	94650	18.804	ug/l #	77
13) Acrolein	3.61	56	46922	86.522	ug/l	97
14) Allyl chloride	4.32	41	193141	20.377	ug/l #	93
15) Acrylonitrile	5.00	53	217918	111.354	ug/l	99
16) Acetone	3.82	43	160552	82.271	ug/l #	87
17) Carbon Disulfide	4.04	76	248348	18.415	ug/l	99
18) Methyl Acetate	4.33	43	98483	22.641	ug/l #	88
19) Methyl tert-butyl Ether	5.05	73	315755	21.495	ug/l	94
20) Methylene Chloride	4.54	84	118098	20.529	ug/l #	86
21) trans-1,2-Dichloroethene	5.04	96	109395	21.284	ug/l #	82
22) Diisopropyl ether	5.96	45	411731	22.023	ug/l #	96
23) Vinyl Acetate	5.90	43	1451261	109.910	ug/l #	93
24) 1,1-Dichloroethane	5.85	63	218475	21.704	ug/l	99
25) 2-Butanone	6.85	43	263771	105.514	ug/l	89
26) 2,2-Dichloropropane	6.82	77	137364	19.143	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	129107	21.060	ug/l	90
28) Bromochloromethane	7.20	49	107779	21.752	ug/l #	73
29) Tetrahydrofuran	7.22	42	188079	115.937	ug/l #	85
30) Chloroform	7.37	83	213315	21.714	ug/l	98
31) Cyclohexane	7.65	56	210423	20.728	ug/l	87
32) 1,1,1-Trichloroethane	7.57	97	174828	21.571	ug/l	96
36) 1,1-Dichloropropene	7.79	75	156781	19.558	ug/l	96
37) Ethyl Acetate	6.94	43	121199	21.258	ug/l	97
38) Carbon Tetrachloride	7.77	117	148040	19.004	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	177280	19.333	ug/l	90
40) Benzene	8.04	78	476326	20.779	ug/l	99
41) Methacrylonitrile	7.18	41	60646	17.442	ug/l #	91
42) 1,2-Dichloroethane	8.13	62	169083	20.254	ug/l	98
43) Isopropyl Acetate	8.17	43	200692	20.843	ug/l #	95
44) Trichloroethene	8.84	130	128291	20.130	ug/l	99
45) 1,2-Dichloropropane	9.12	63	131771	21.408	ug/l	100
46) Dibromomethane	9.21	93	76503	20.834	ug/l	90
47) Bromodichloromethane	9.40	83	153961	20.202	ug/l	99
48) Methyl methacrylate	9.20	41	104341	19.965	ug/l	90
49) 1,4-Dioxane	9.20	88	23915	409.319	ug/l #	88
51) 4-Methyl-2-Pentanone	9.99	43	572206	107.227	ug/l	94
52) Toluene	10.16	92	275709	19.556	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	139906	18.858	ug/l	96
54) cis-1,3-Dichloropropene	9.84	75	176096	20.152	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	103498	20.422	ug/l	97
56) Ethyl methacrylate	10.43	69	137517	20.216	ug/l #	84
57) 1,3-Dichloropropane	10.71	76	185291	21.033	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	270258	96.486	ug/l	90
59) 2-Hexanone	10.75	43	351814	100.931	ug/l	93
60) Dibromochloromethane	10.90	129	106860	19.815	ug/l	99
61) 1,2-Dibromoethane	11.01	107	103038	20.565	ug/l	97
64) Tetrachloroethene	10.63	164	120556	20.040	ug/l	95
65) Chlorobenzene	11.43	112	292614	19.837	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	108690	20.528	ug/l	98
67) Ethyl Benzene	11.51	91	523830	20.103	ug/l	98
68) m/p-Xylenes	11.62	106	386017	39.111	ug/l	96
69) o-Xylene	11.95	106	192208	19.941	ug/l	98
70) Styrene	11.96	104	308684	19.721	ug/l	97
71) Bromoform	12.13	173	60678	18.105	ug/l #	100
73) Isopropylbenzene	12.25	105	505550	20.807	ug/l	98
74) N-amyl acetate	12.07	43	153365	21.953	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.50	83	123193	22.212	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	106510m	22.261	ug/l	
77) Bromobenzene	12.53	156	123052	20.420	ug/l	88
78) n-propylbenzene	12.59	91	535293	20.318	ug/l	97
79) 2-Chlorotoluene	12.67	91	333704	20.311	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	406970	20.437	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	23473	19.012	ug/l #	76
82) 4-Chlorotoluene	12.77	91	321001	20.157	ug/l	96
83) tert-Butylbenzene	12.99	119	359723	20.753	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	393911	20.160	ug/l	99
85) sec-Butylbenzene	13.17	105	438411	20.290	ug/l	98
86) p-Isopropyltoluene	13.29	119	389581	20.153	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	200034	20.032	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	189463	19.500	ug/l	97
89) n-Butylbenzene	13.62	91	291658	19.295	ug/l	98
90) Hexachloroethane	13.88	117	59094	19.694	ug/l	89
91) 1,2-Dichlorobenzene	13.65	146	196852	20.352	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	17700	21.757	ug/l	84

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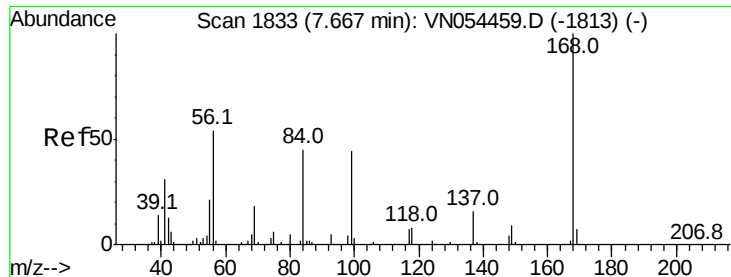
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	91655	19.009	ug/l	99
94) Hexachlorobutadiene	15.01	225	56349	19.277	ug/l	97
95) Naphthalene	15.13	128	209706	19.499	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	94408	19.673	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS01

Tot Ion:168 Resp: 521846

Ion Ratio Lower Upper

168 100

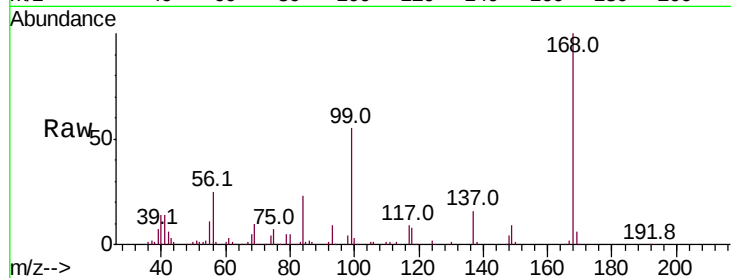
99 53.6 37.1 55.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

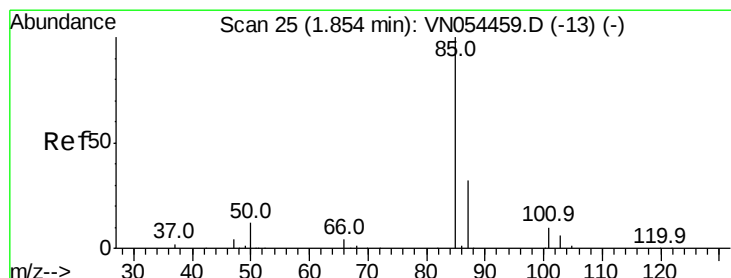
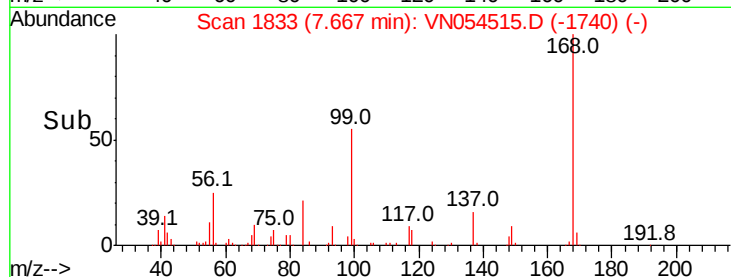
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 21.004 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054515.D

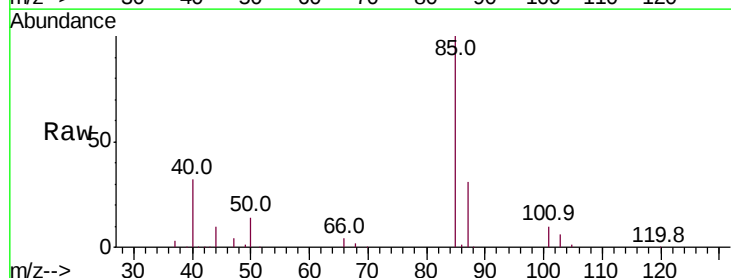
Acq: 21 Mar 2019 17:05

Tgt Ion: 85 Resp: 104781

Ion Ratio Lower Upper

85 100

87 31.4 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

80000

60000

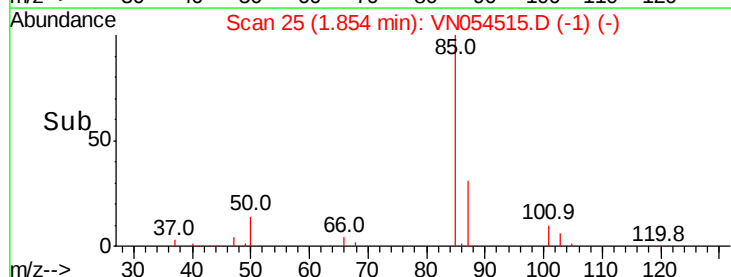
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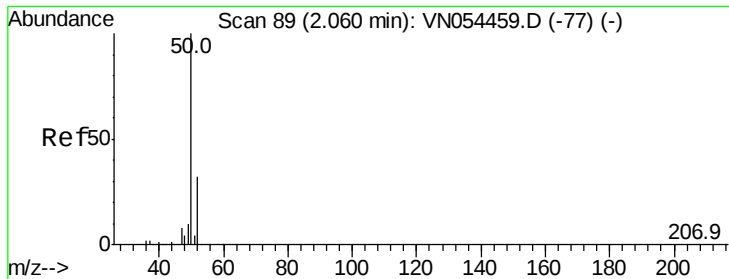
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 21.217 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS01

Tot Ion: 50 Resp: 144013

Ion Ratio Lower Upper

50 100

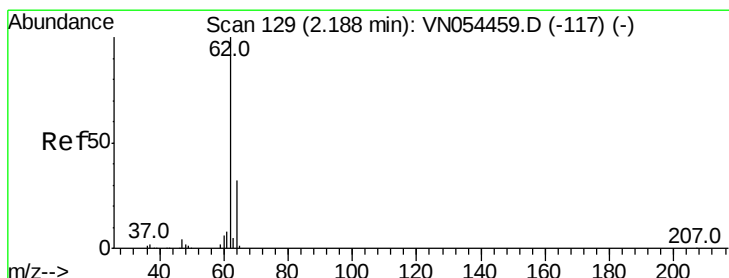
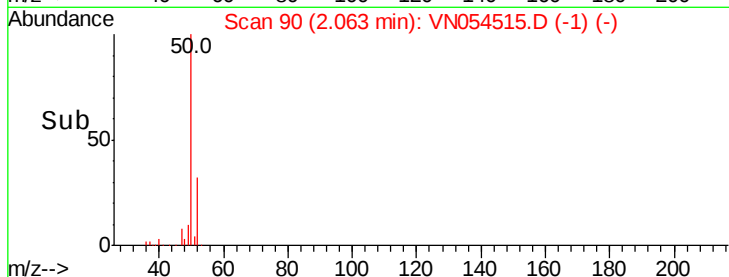
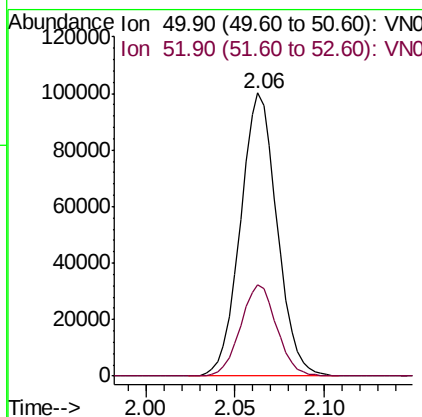
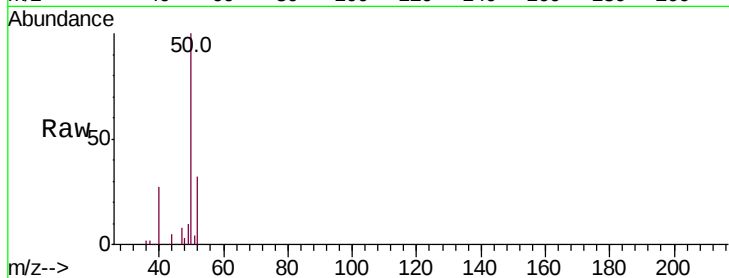
52 32.4 26.4 39.6

Manual Integrations

APPROVED

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#4

Vinyl Chloride

Concen: 20.775 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054515.D

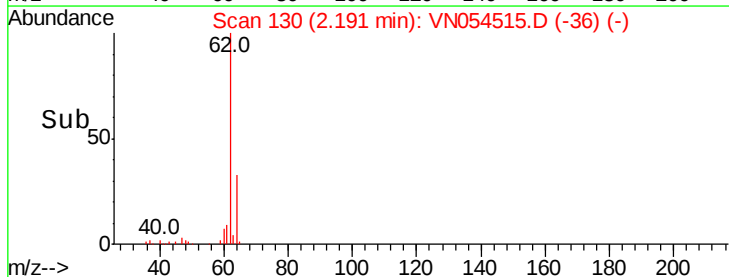
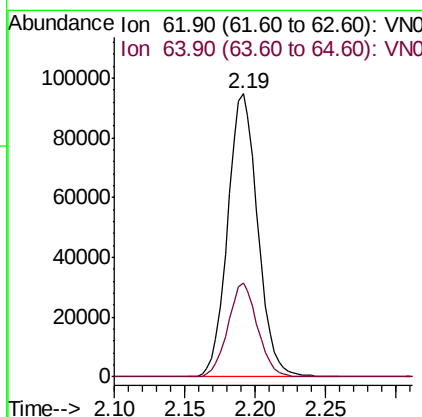
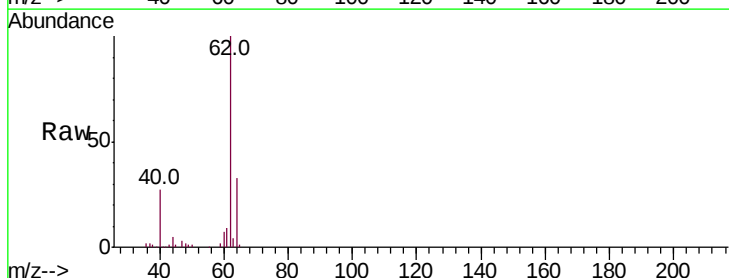
Acq: 21 Mar 2019 17:05

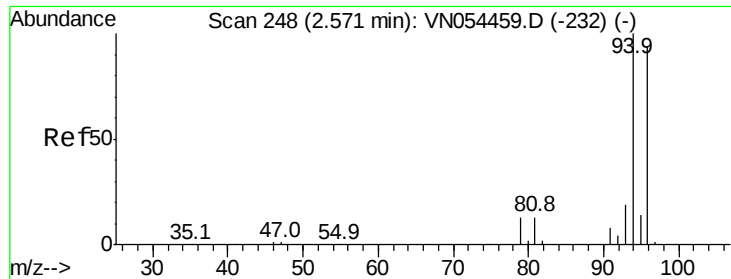
Tgt Ion: 62 Resp: 141572

Ion Ratio Lower Upper

62 100

64 33.0 25.5 38.3





#5

Bromomethane

Concen: 18.761 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS01

Tot Ion: 94 Resp: 82670

Ion Ratio Lower Upper

94 100

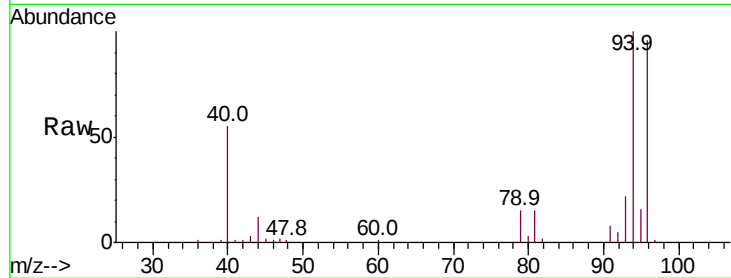
96 96.5 77.0 115.4

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.58

40000

30000

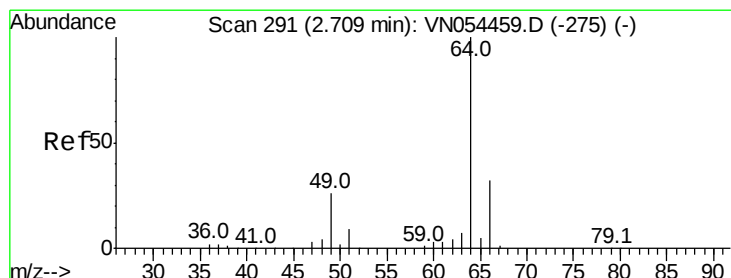
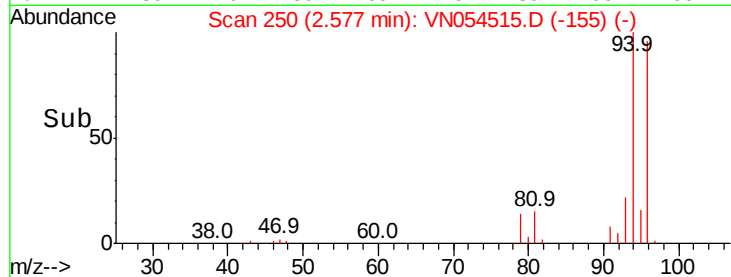
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10000

0

Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 19.038 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN054515.D

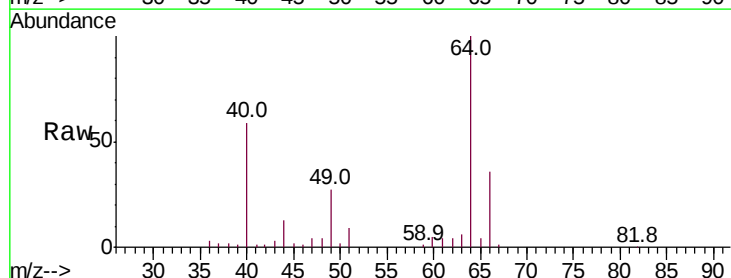
Acq: 21 Mar 2019 17:05

Tgt Ion: 64 Resp: 77818

Ion Ratio Lower Upper

64 100

66 35.6 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

40000

30000

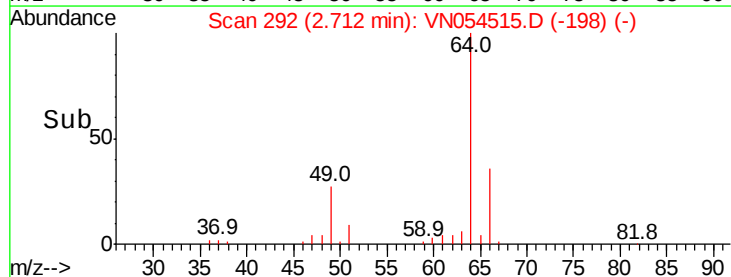
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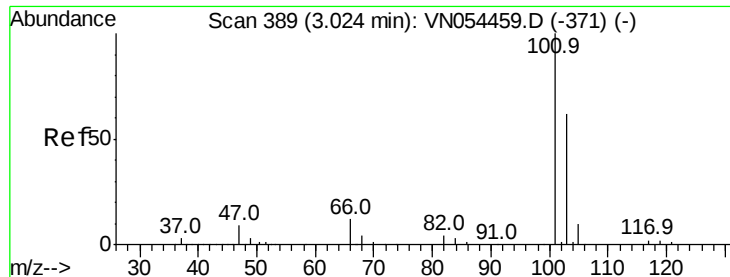
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Time-->

2.65 2.70 2.75 2.80





#7

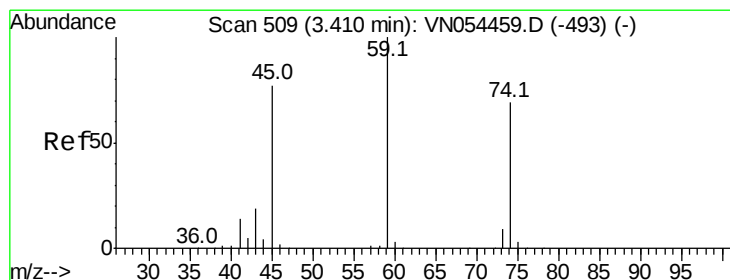
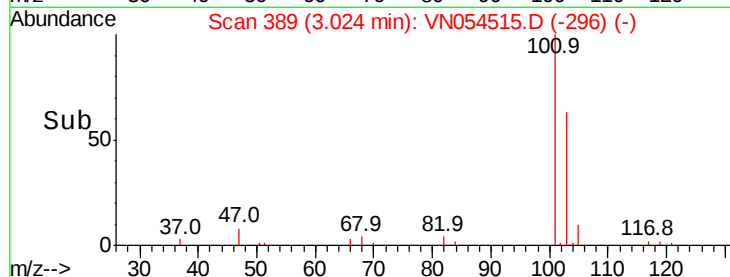
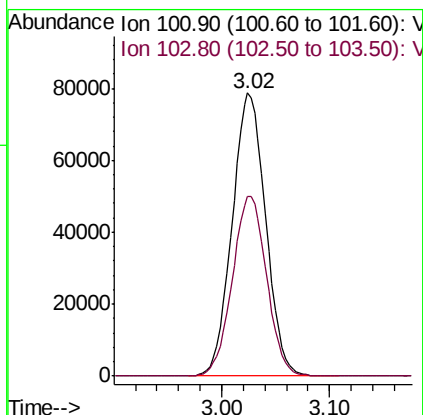
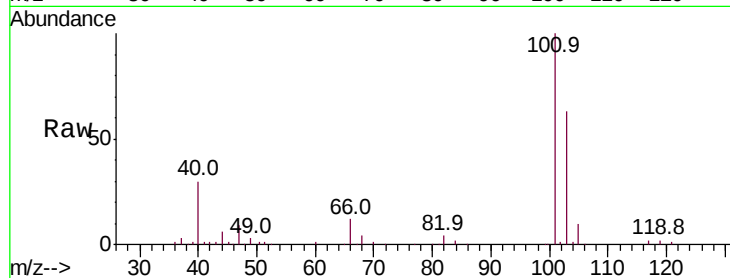
Trichlorofluoromethane
Concen: 20.551 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

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ClientSampleId :
VN0321WBS01

Tot Ion:101 Resp: 170079
Ion Ratio Lower Upper
101 100
103 63.5 51.4 77.2

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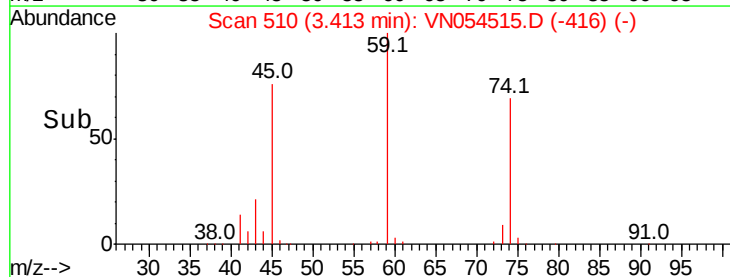
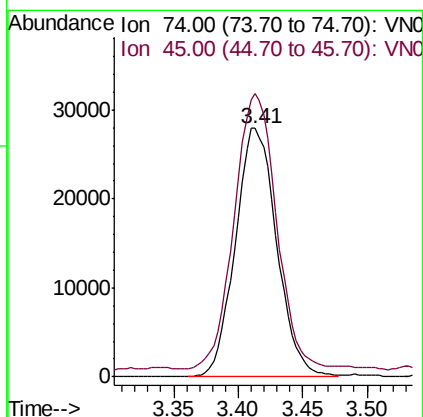
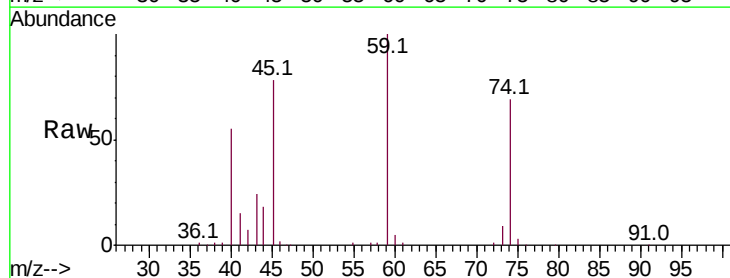
MMDadoda
3/22/2019 4:15:32 PM

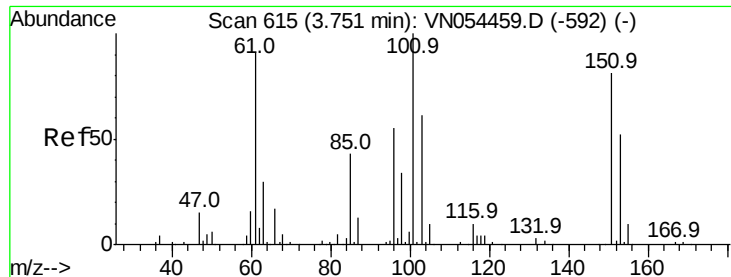


#8

Diethyl Ether
Concen: 19.621 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion: 74 Resp: 62452
Ion Ratio Lower Upper
74 100
45 112.4 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.203 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

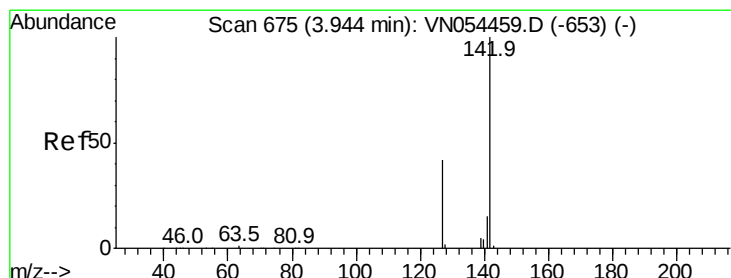
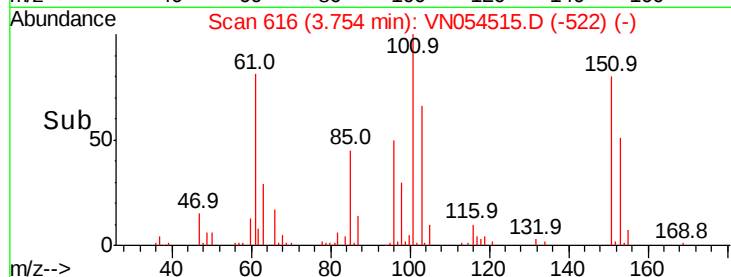
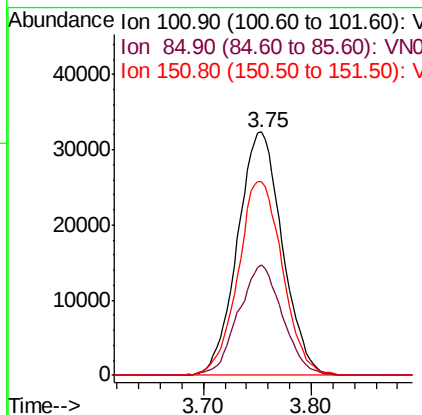
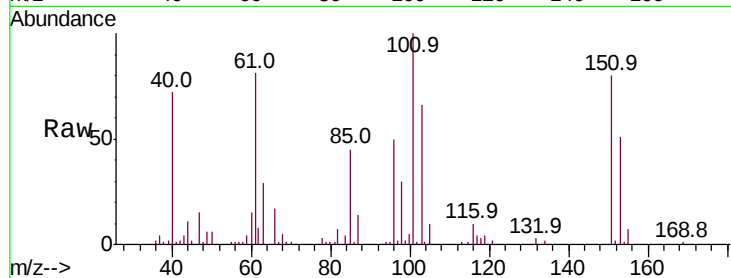
ClientSampleId :

VN0321WBS01

Tot Ion:	101	Resp:	93401
Ion Ratio	Lower	Upper	
101	100		
85	44.7	32.4	48.6
151	79.2	68.2	102.2

Manual Integrations
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MMDadoda
3/22/2019 4:15:32 PM



#10

Methyl Iodide

Concen: 18.627 ug/l

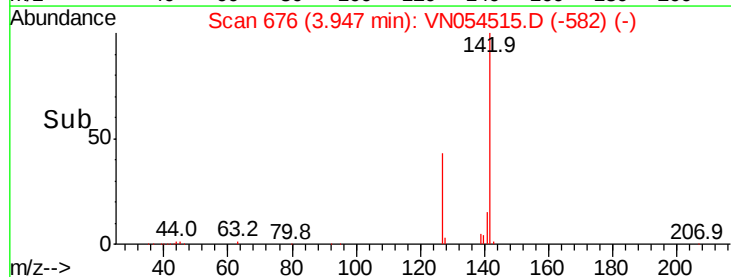
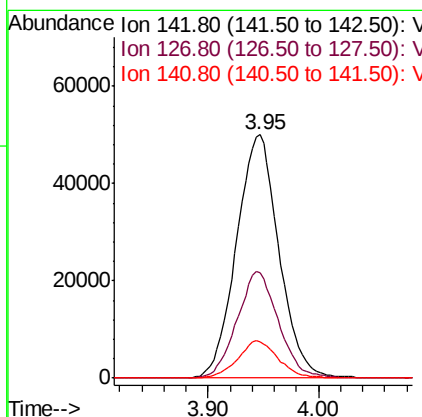
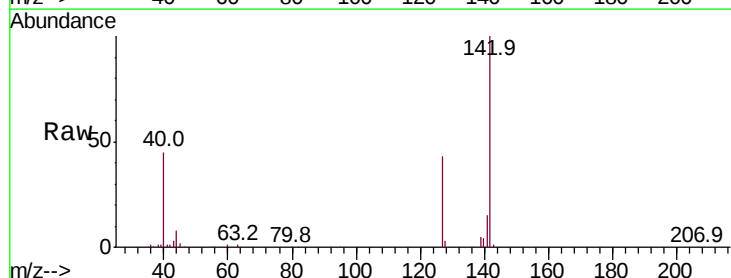
RT: 3.95 min Scan# 676

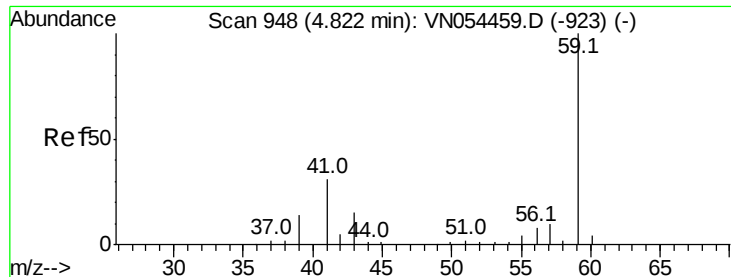
Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Tgt Ion:	142	Resp:	133267
Ion Ratio	Lower	Upper	
142	100		
127	42.6	30.3	45.5
141	14.6	11.2	16.8





#11

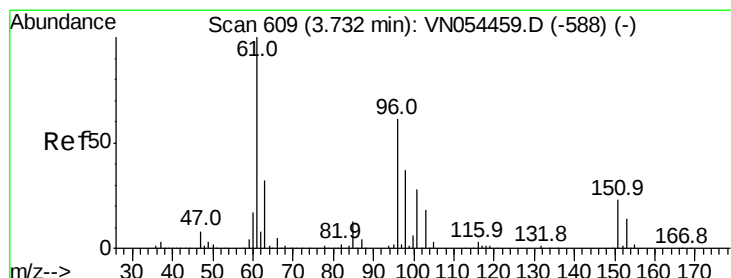
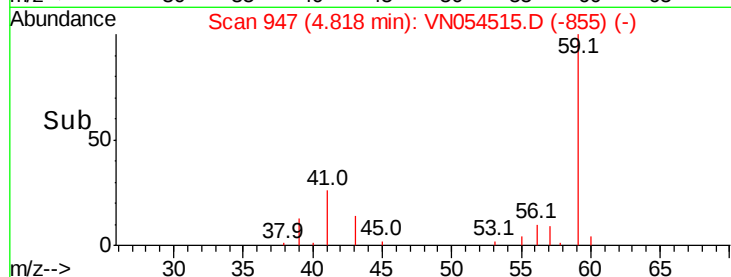
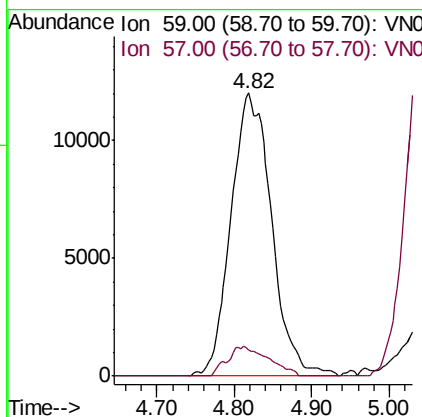
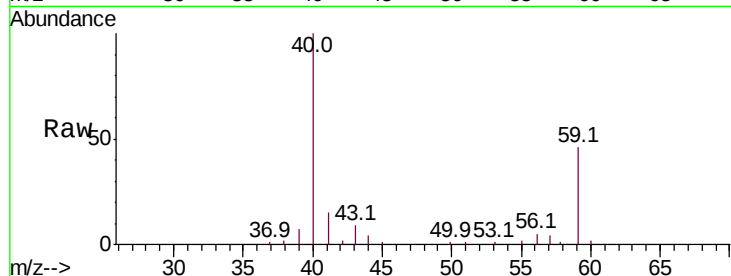
Tert butyl alcohol
 Concen: 111.513 ug/l
 RT: 4.82 min Scan# 947
 Delta R.T. -0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Instrument :
 MSVOA_N
 ClientSampled :
 VN0321WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	9.0	13.6

Manual Integrations
 APPROVED

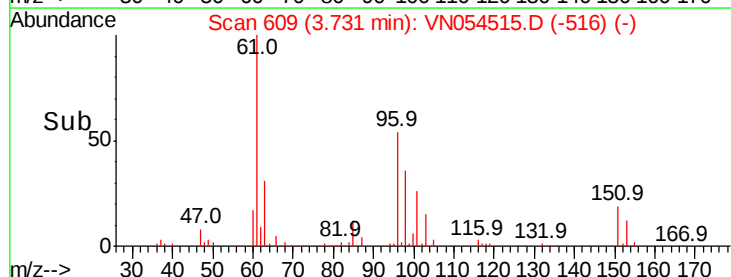
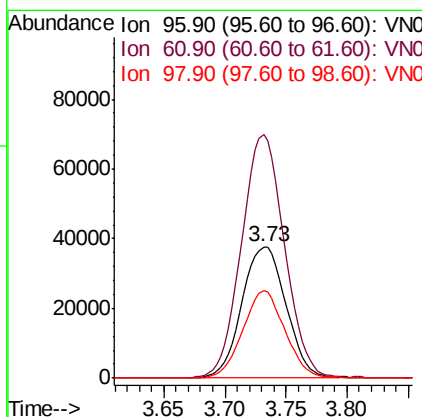
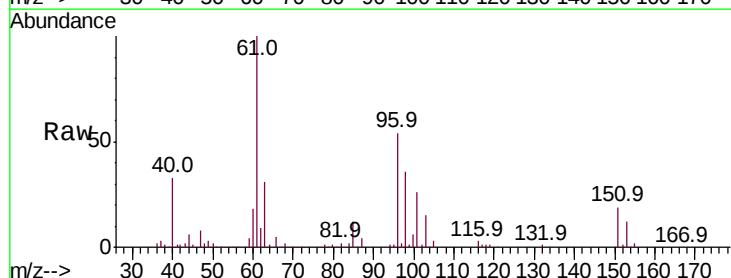
MMDadoda
 3/22/2019 4:15:32 PM

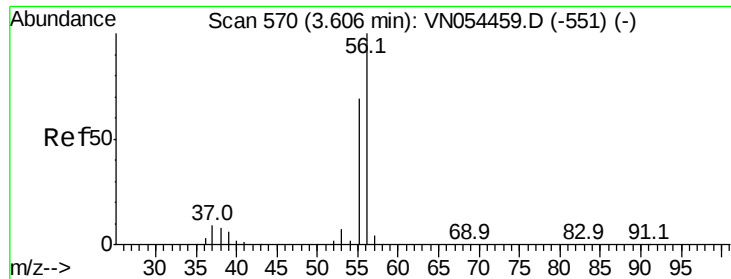


#12

1,1-Dichloroethene
 Concen: 18.804 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. -0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
96	100		
61	184.9	116.5	174.7#
98	67.0	51.0	76.4





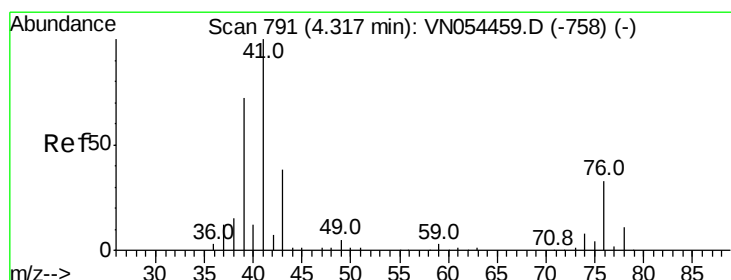
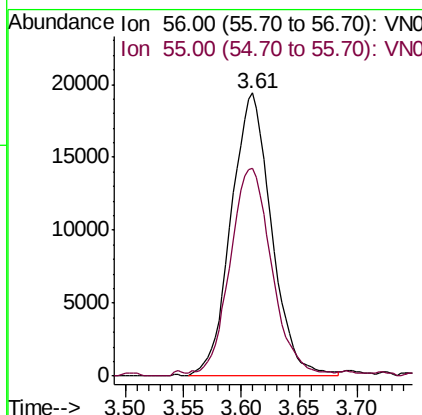
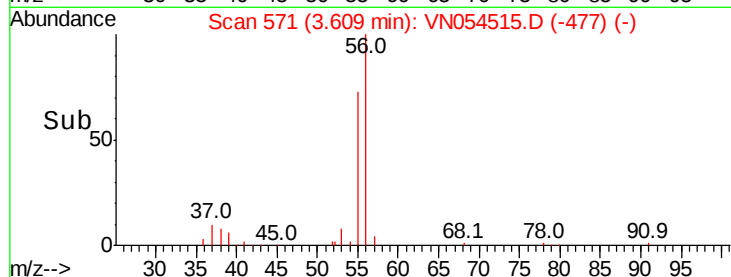
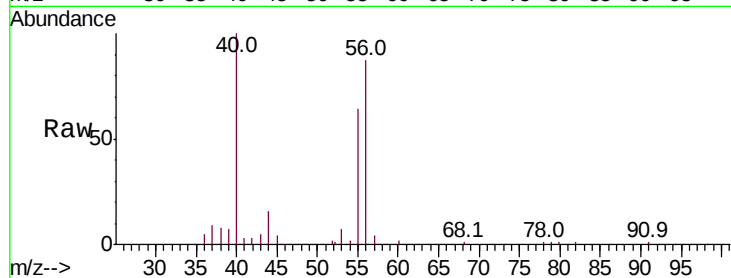
#13
 Acrolein
 Concen: 86.522 ug/l
 RT: 3.61 min Scan# 571
 Delta R.T. 0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBS01

Tot Ion: 56 Resp: 46922
 Ion Ratio Lower Upper
 56 100
 55 73.2 56.7 85.1

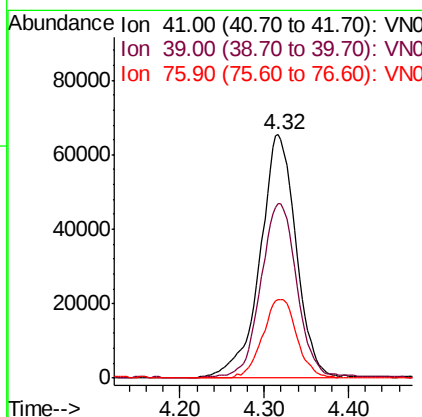
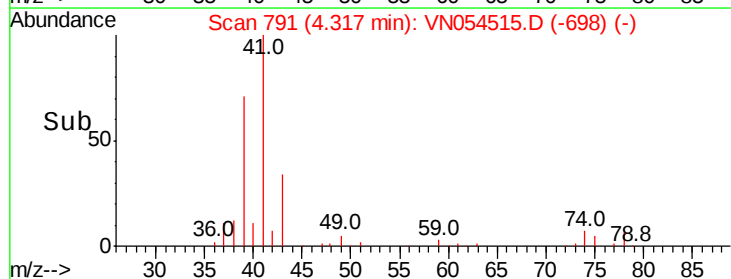
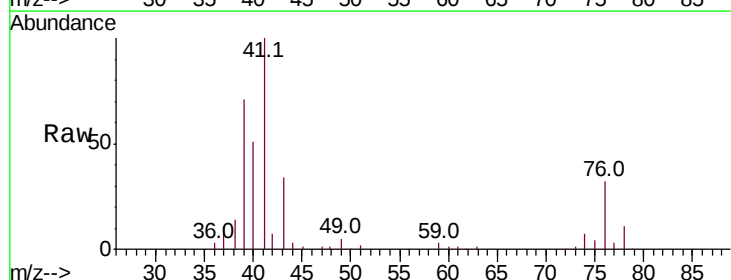
Manual Integrations
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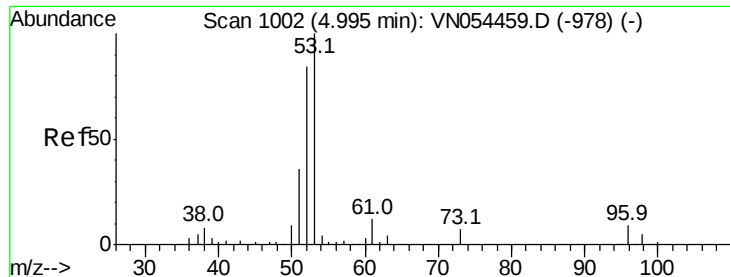
MMDadoda
 3/22/2019 4:15:32 PM



#14
 Allyl chloride
 Concen: 20.377 ug/l
 RT: 4.32 min Scan# 791
 Delta R.T. -0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Tgt Ion: 41 Resp: 193141
 Ion Ratio Lower Upper
 41 100
 39 70.8 58.2 87.4
 76 30.7 31.7 47.5#





#15

Acrylonitrile

Concen: 111.354 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

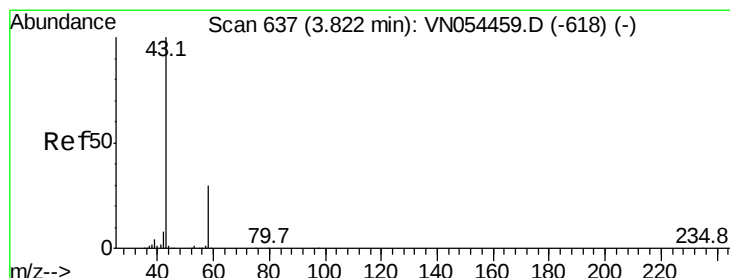
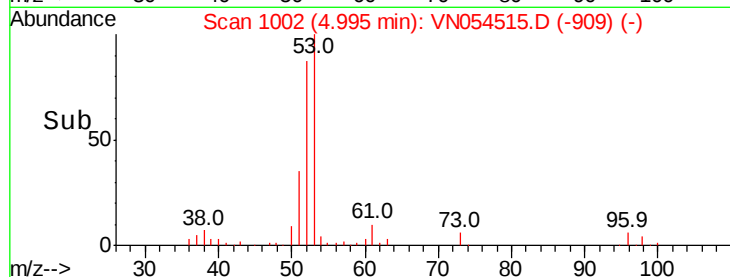
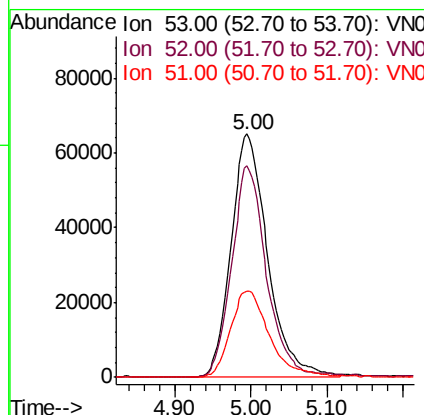
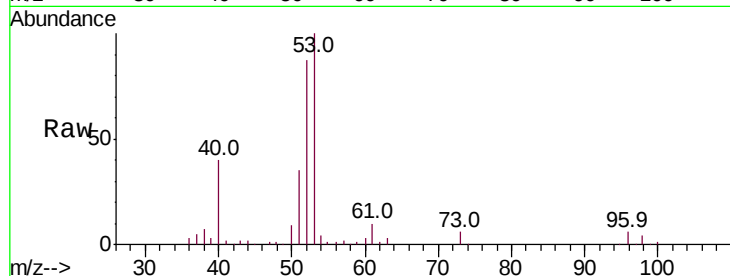
ClientSampleId :

VN0321WBS01

Tot Ion:	53	Resp:	217918
Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.4	99.6
51	37.9	29.6	44.4

Manual Integrations
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3/22/2019 4:15:32 PM



#16

Acetone

Concen: 82.271 ug/l

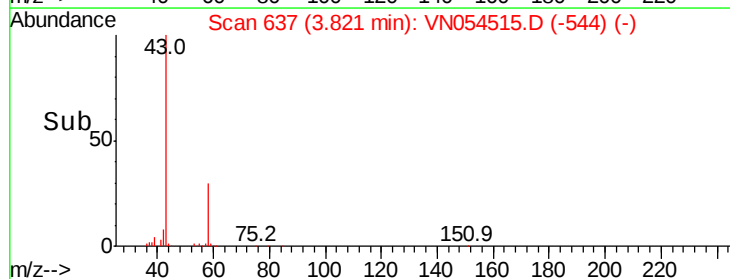
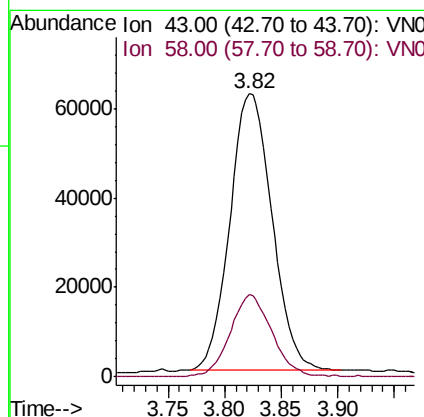
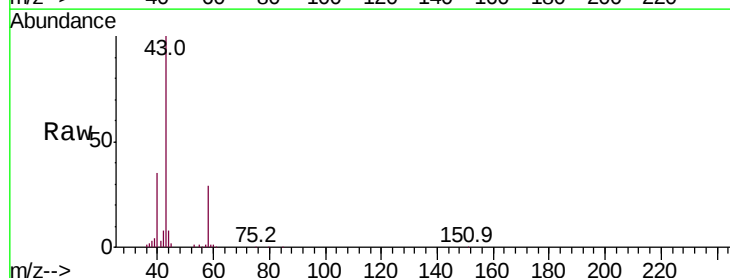
RT: 3.82 min Scan# 637

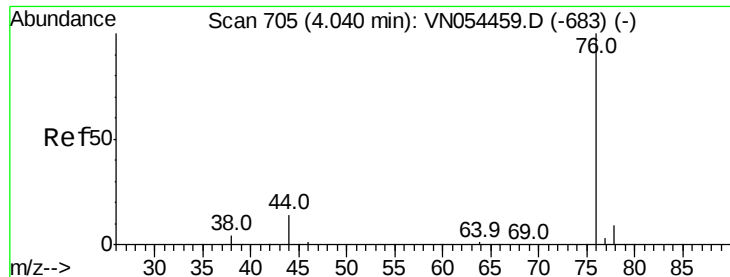
Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Tgt Ion:	43	Resp:	160552
Ion	Ratio	Lower	Upper
43	100		
58	29.3	29.9	44.9#





#17

Carbon Disulfide

Concen: 18.415 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

ClientSampled :

VN0321WBS01

Tot Ion: 76 Resp: 248348

Ion Ratio Lower Upper

76 100

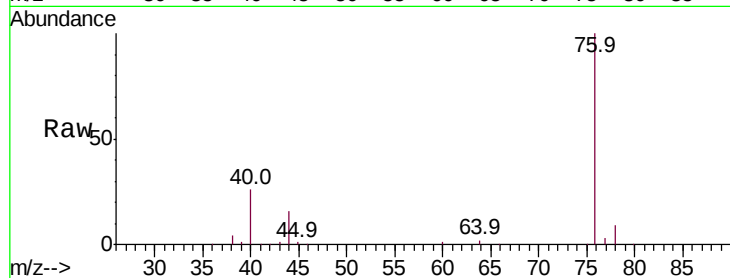
78 9.0 7.5 11.3

Manual Integrations

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3/22/2019 4:15:32 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.04

100000

80000

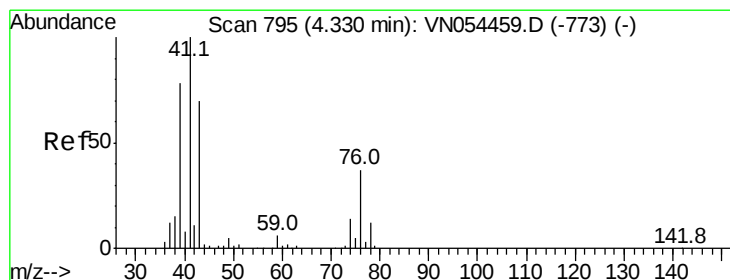
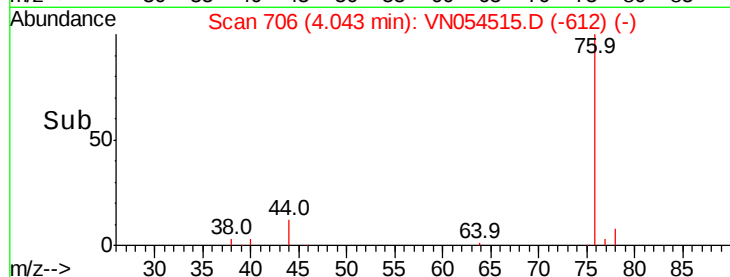
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 22.641 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054515.D

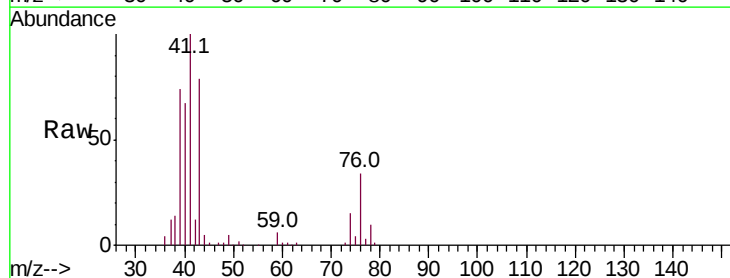
Acq: 21 Mar 2019 17:05

Tgt Ion: 43 Resp: 98483

Ion Ratio Lower Upper

43 100

74 20.1 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

40000

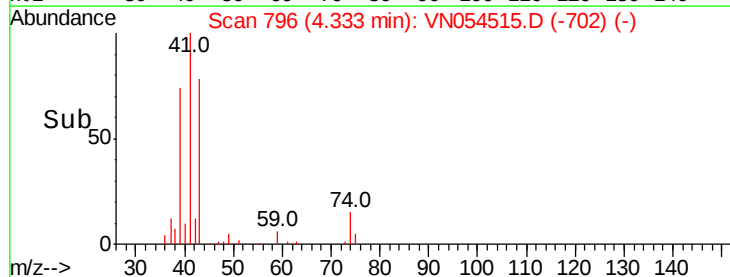
30000

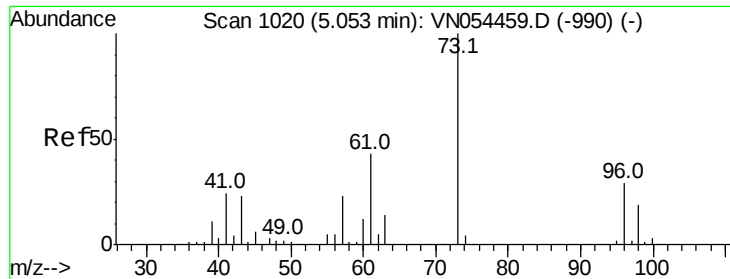
20000

10000

0

Time-->





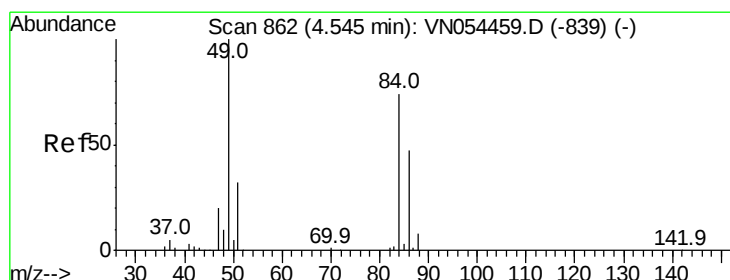
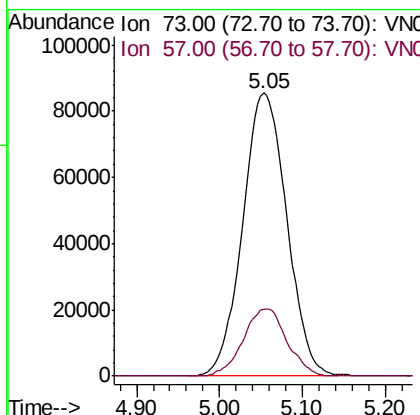
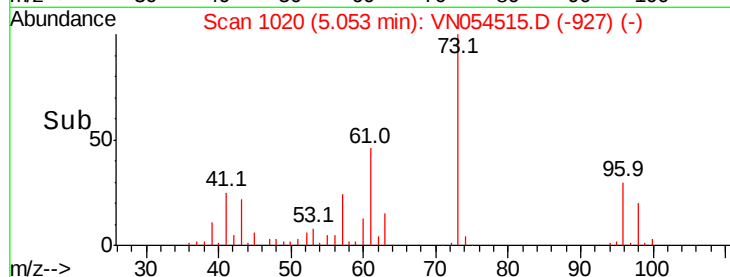
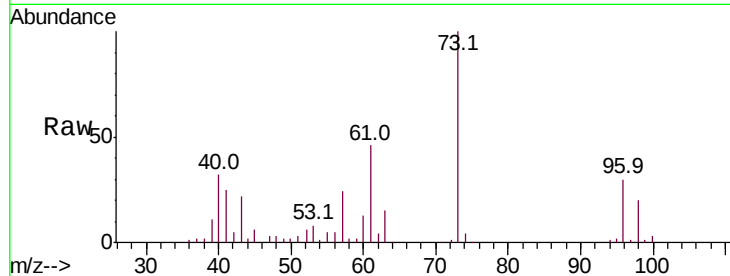
#19
Methyl tert-butyl Ether
Concen: 21.495 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion: 73 Resp: 315755
Ion Ratio Lower Upper
73 100
57 23.7 16.8 25.2

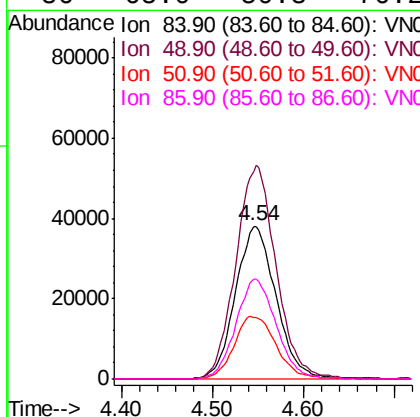
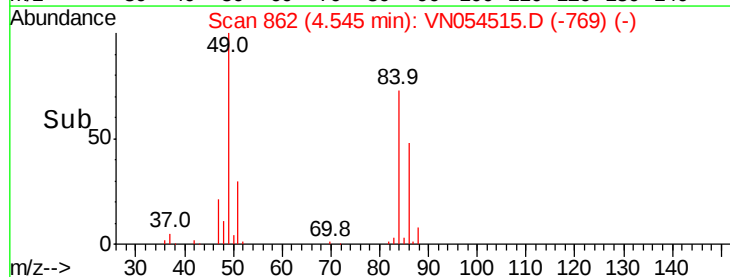
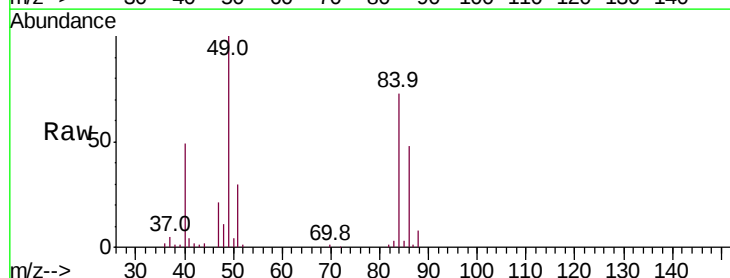
Manual Integrations
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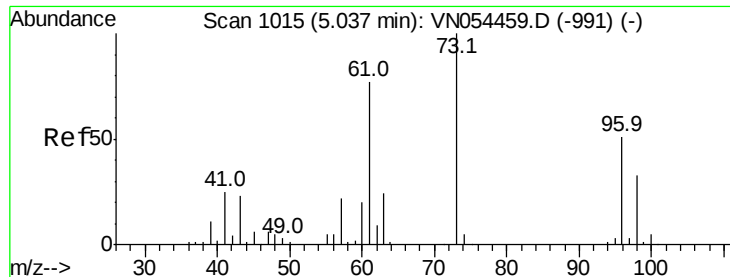
MMDadoda
3/22/2019 4:15:32 PM



#20
Methylene Chloride
Concen: 20.529 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion: 84 Resp: 118098
Ion Ratio Lower Upper
84 100
49 136.1 89.7 134.5#
51 40.3 28.2 42.4
86 65.0 50.8 76.2





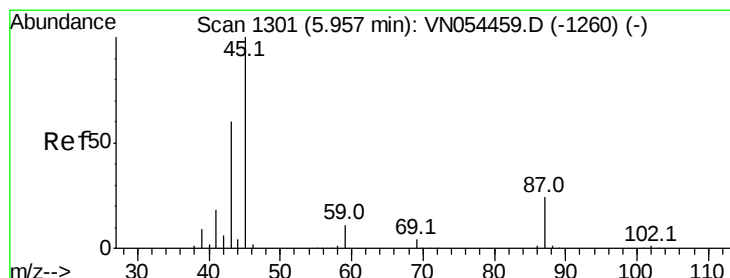
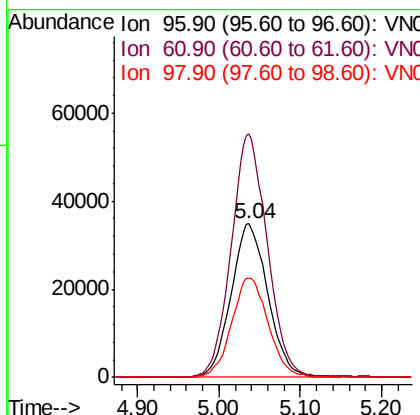
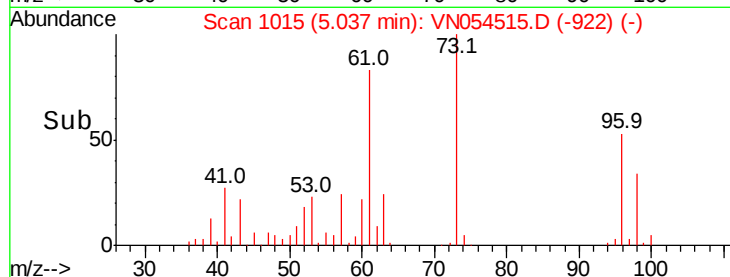
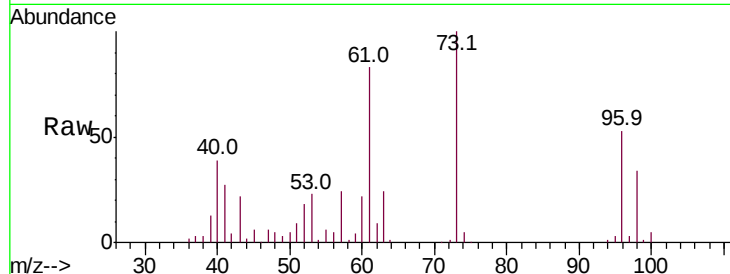
#21
trans-1,2-Dichloroethene
Concen: 21.284 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	158.5	102.8	154.2#
98	64.5	50.0	75.0

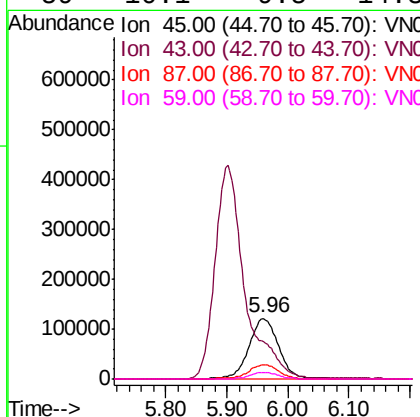
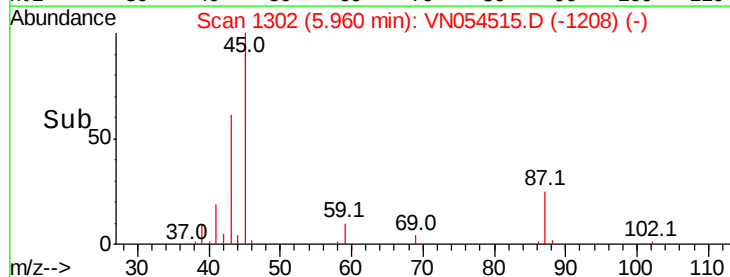
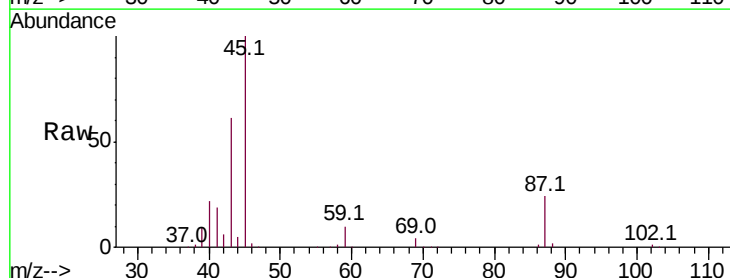
Manual Integrations
APPROVED

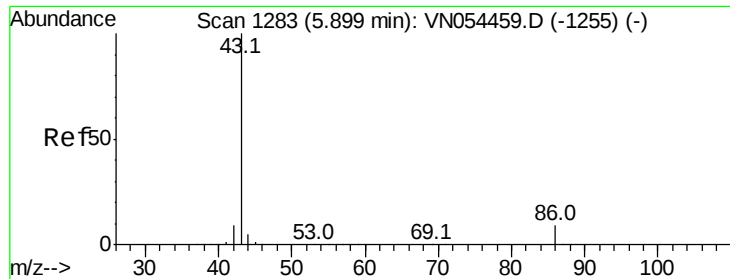
MMDadoda
3/22/2019 4:15:32 PM



#22
Diisopropyl ether
Concen: 22.023 ug/l
RT: 5.96 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.4	48.2	72.2
87	24.3	24.9	37.3#
59	10.1	9.5	14.3





#23

Vinyl Acetate

Concen: 109.910 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS01

Tot Ion: 43 Resp: 1451261

Ion Ratio Lower Upper

43 100

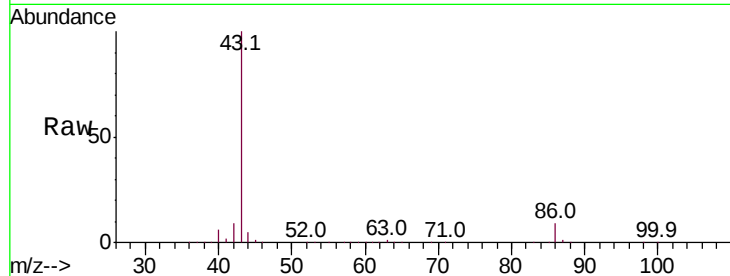
86 8.8 9.1 13.7#

Manual Integrations

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MMDadoda

3/22/2019 4:15:32 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

500000

400000

300000

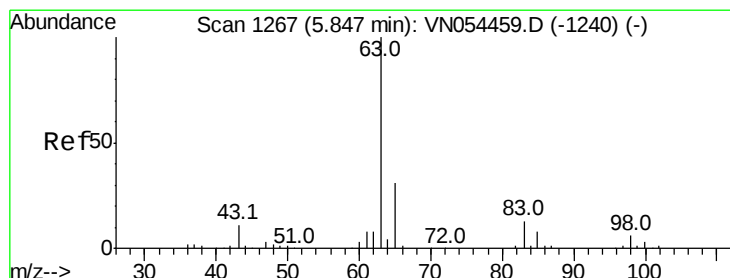
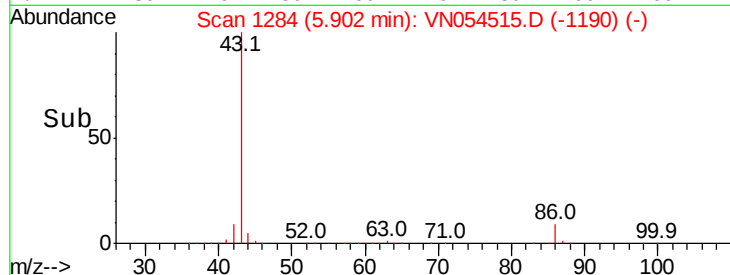
200000

100000

0

5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 21.704 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

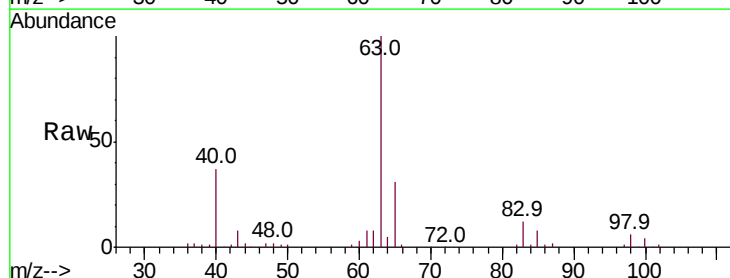
Tgt Ion: 63 Resp: 218475

Ion Ratio Lower Upper

63 100

98 6.3 3.5 10.5

100 4.0 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

80000

60000

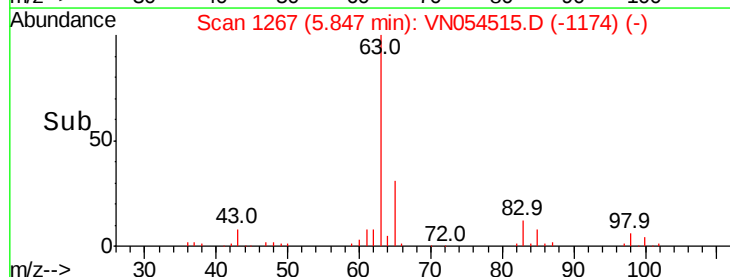
40000

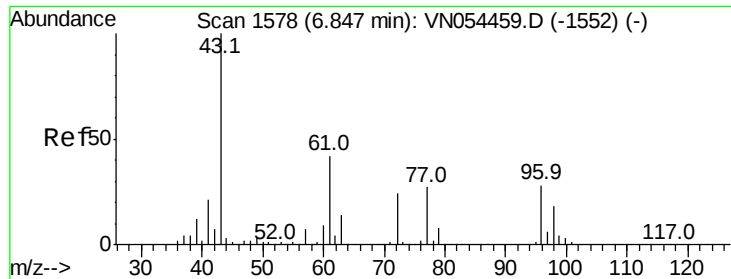
20000

0

5.70 5.80 5.90 6.00

Time-->





#25

2-Butanone

Concen: 105.514 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS01

Tot Ion: 43 Resp: 263771

Ion Ratio Lower Upper

43 100

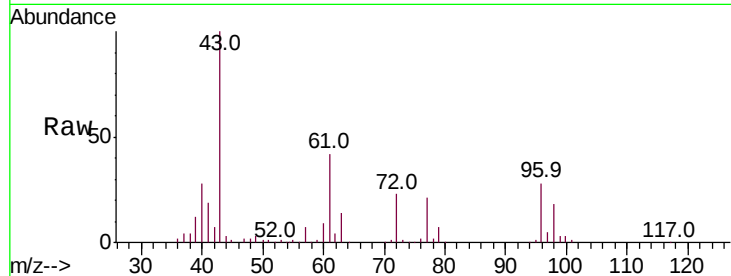
72 23.1 23.0 34.6

Manual Integrations

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MMDadoda

3/22/2019 4:15:32 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.85

100000

80000

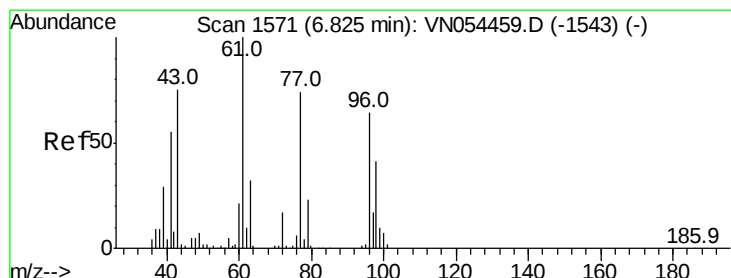
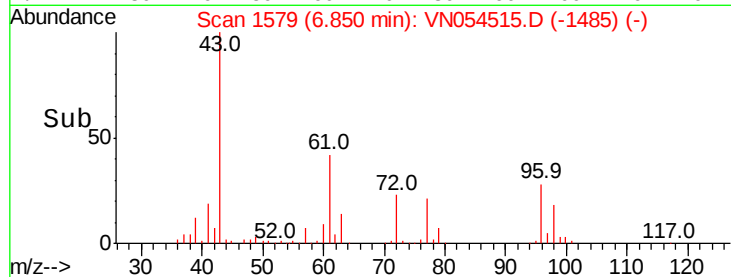
60000

40000

20000

0

Time--> 6.70 6.80 6.90



#26

2,2-Dichloropropane

Concen: 19.143 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054515.D

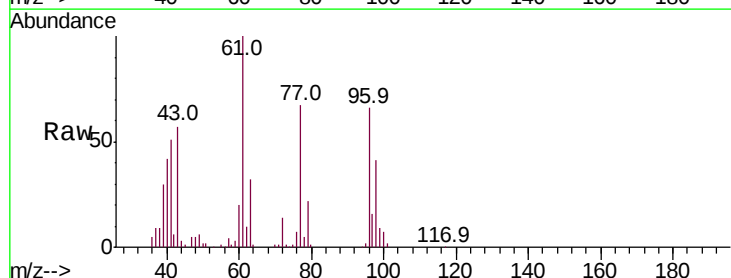
Acq: 21 Mar 2019 17:05

Tgt Ion: 77 Resp: 137364

Ion Ratio Lower Upper

77 100

97 23.5 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.82

50000

40000

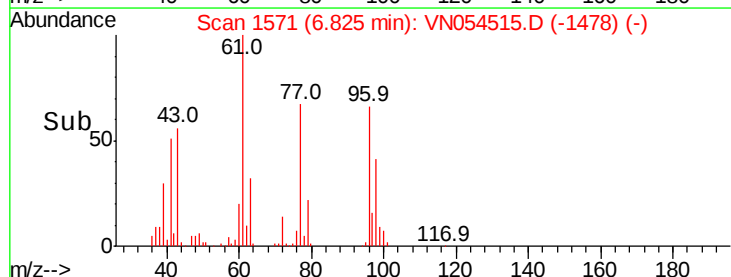
30000

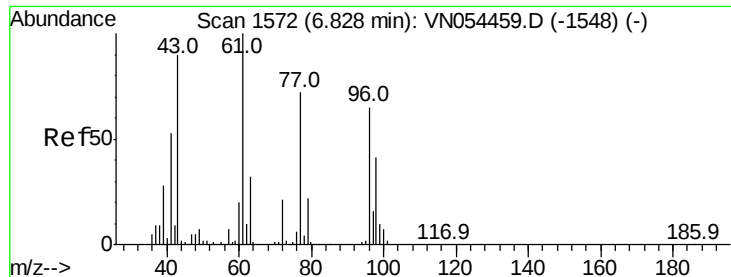
20000

10000

0

Time--> 6.70 6.80 6.90





#27

cis-1,2-Dichloroethene

Concen: 21.060 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

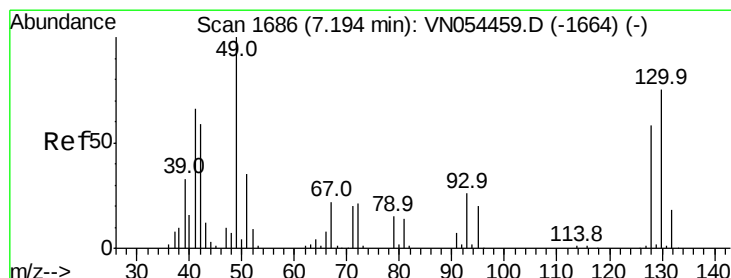
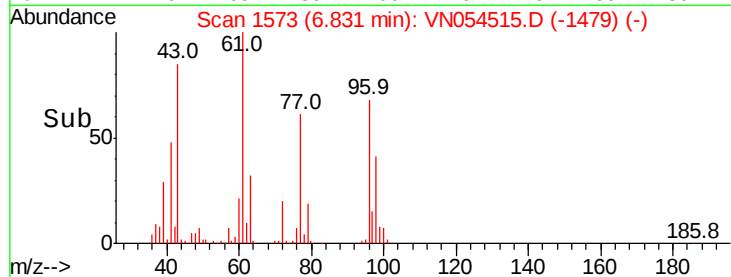
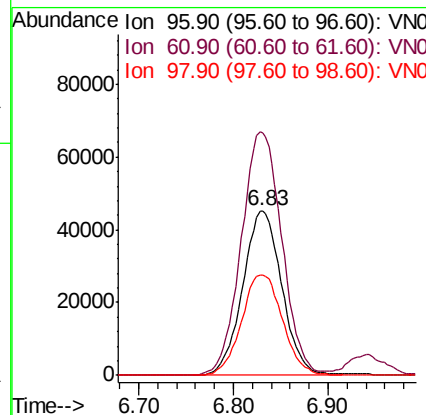
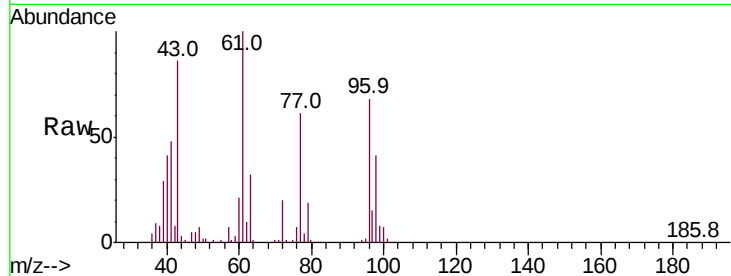
ClientSampleId :

VN0321WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.9	0.0	273.0
98	64.3	0.0	130.6

Manual Integrations
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3/22/2019 4:15:32 PM



#28

Bromochloromethane

Concen: 21.752 ug/l

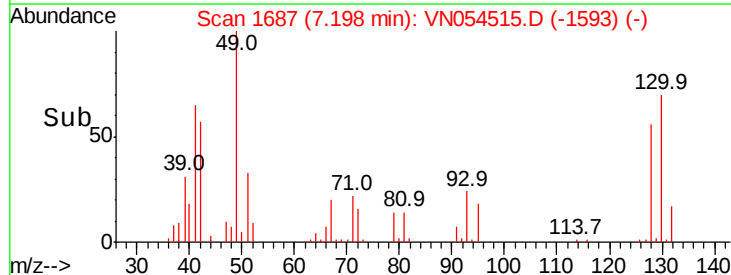
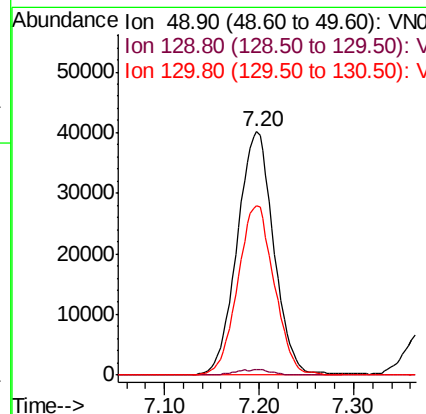
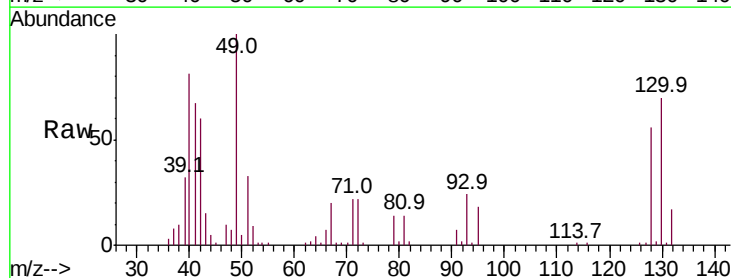
RT: 7.20 min Scan# 1687

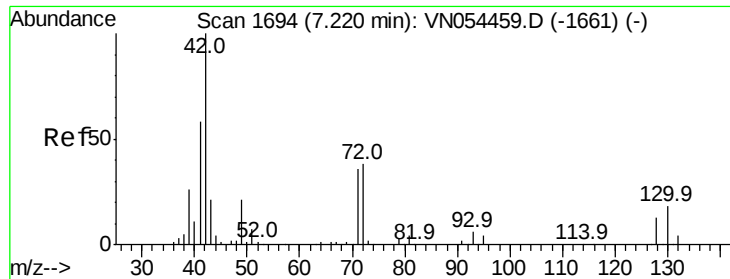
Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	4.6
130	69.4	76.7	115.1#





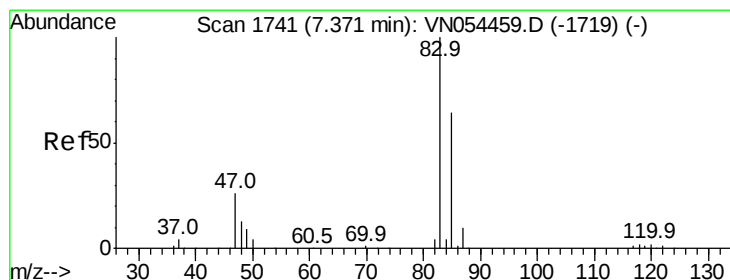
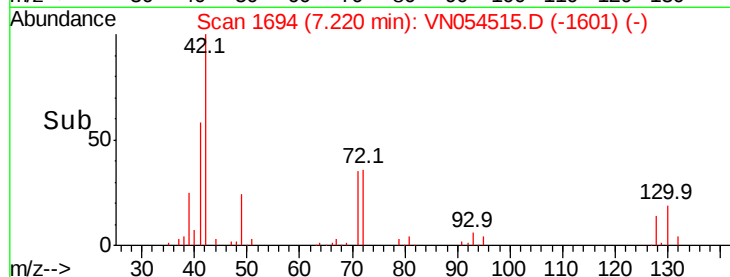
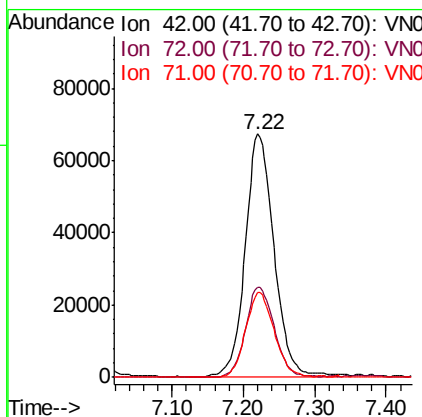
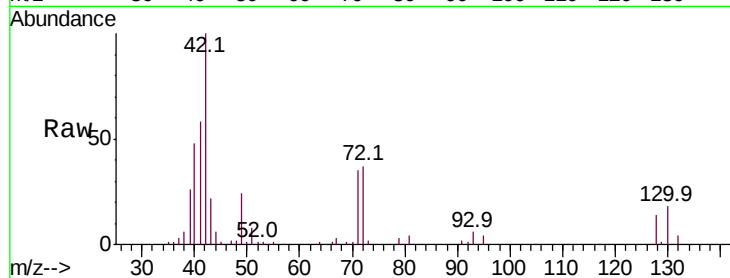
#29
Tetrahydrofuran
Concen: 115.937 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.3	37.8	56.6#
71	34.9	36.2	54.2#

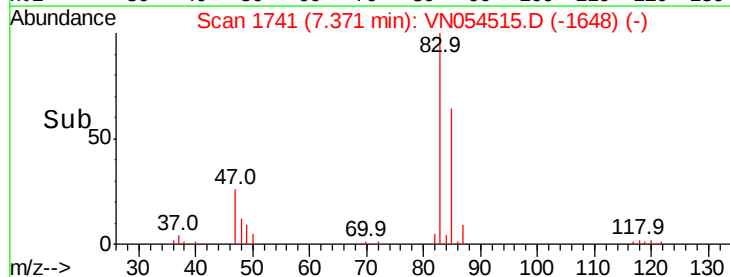
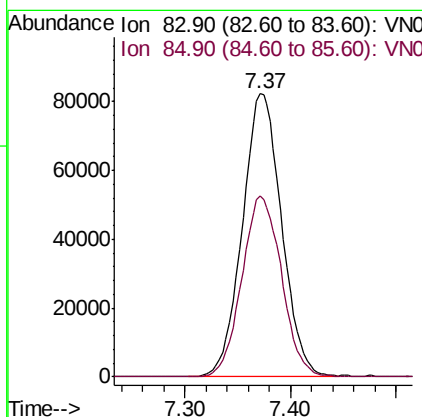
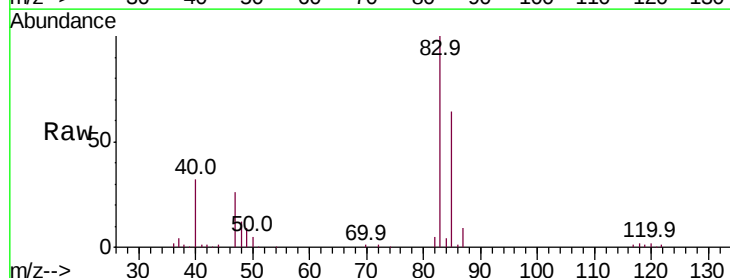
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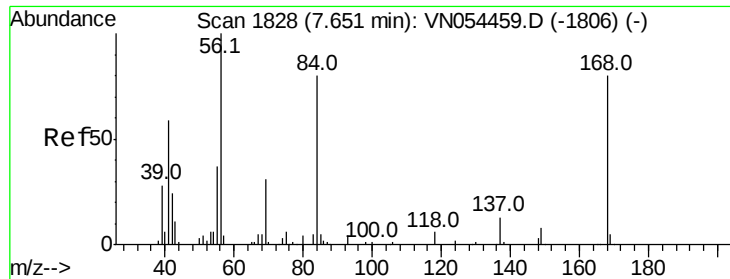
MMDadoda
3/22/2019 4:15:32 PM



#30
Chloroform
Concen: 21.714 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.2	78.4





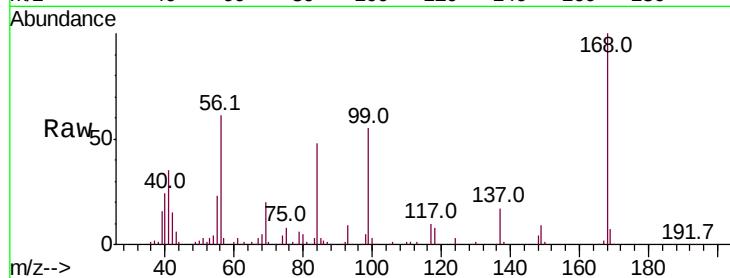
#31
Cyclohexane
Concen: 20.728 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

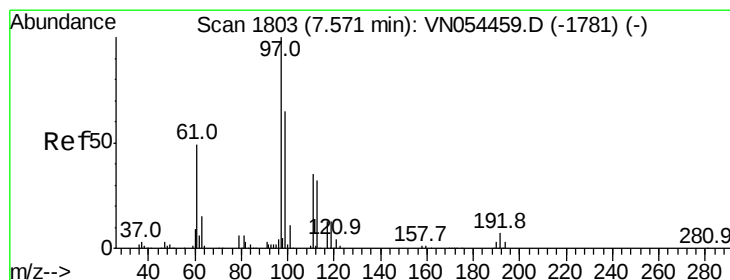
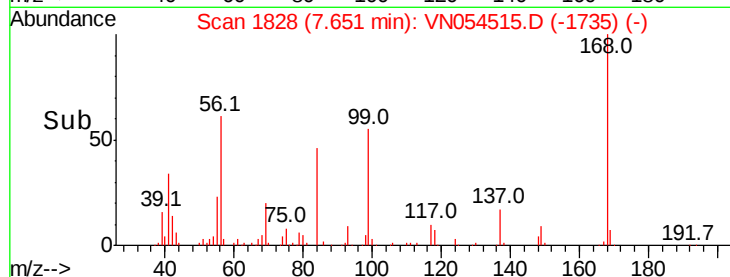
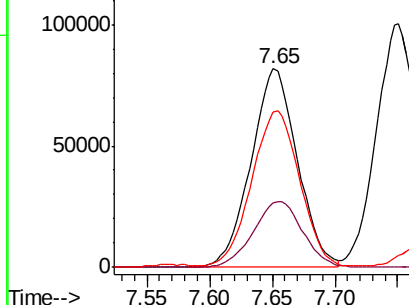
Tot Ion	Ratio	Lower	Upper
56	100		
69	32.4	27.8	41.6
84	76.9	74.6	111.8

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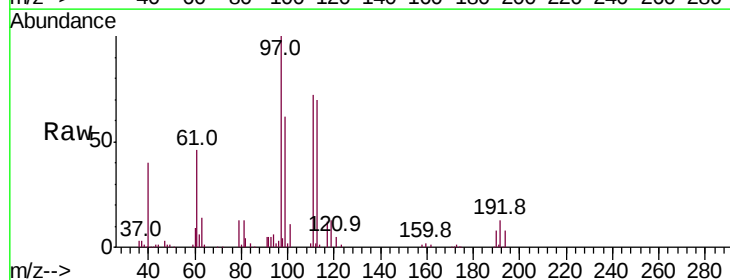


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

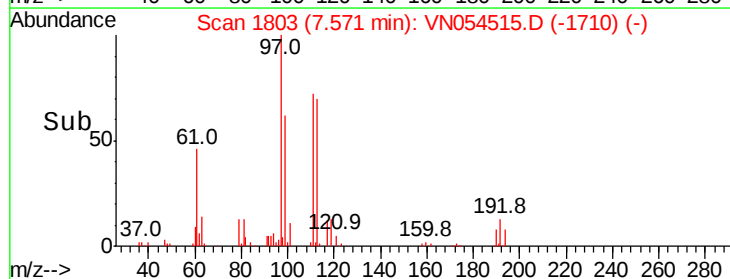
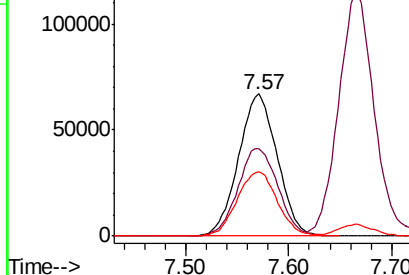


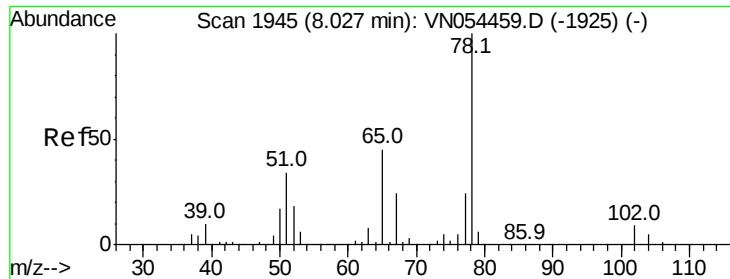
#32
1,1,1-Trichloroethane
Concen: 21.571 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.5	77.3
61	47.1	33.6	50.4



Abundance Ion 96.90 (96.60 to 97.60): VNC
Ion 98.90 (98.60 to 99.60): VNC
Ion 60.90 (60.60 to 61.60): VNC





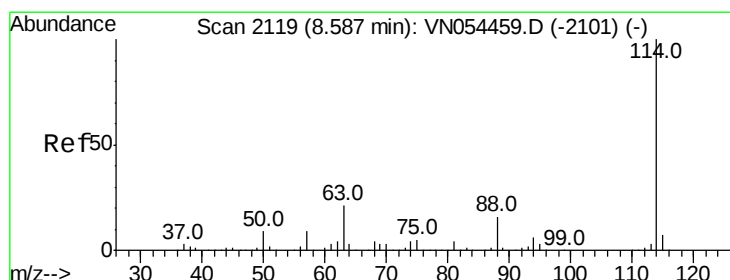
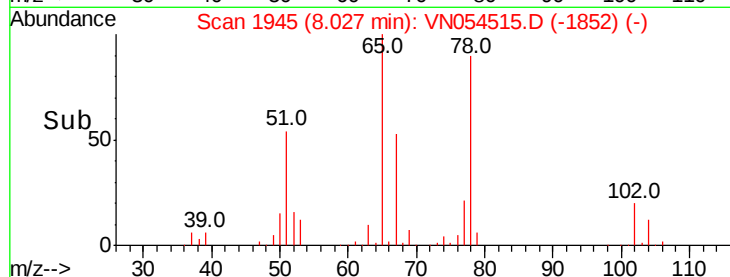
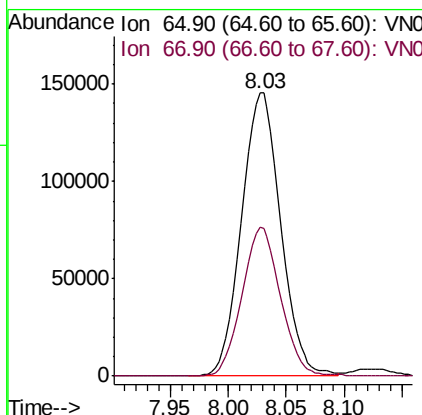
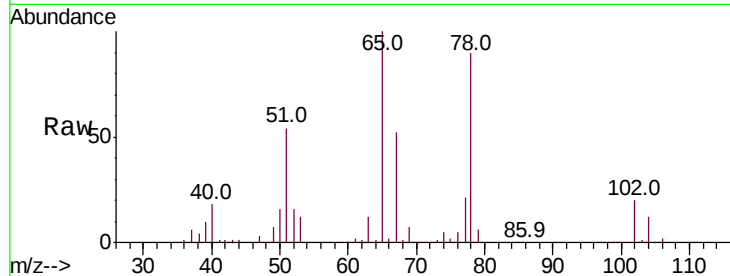
#33
 1,2-Dichloroethane-d4
 Concen: 52.742 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	104.6

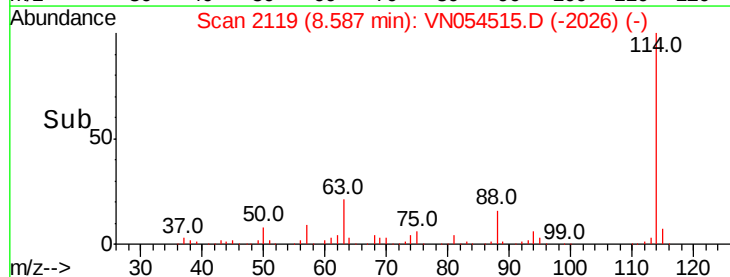
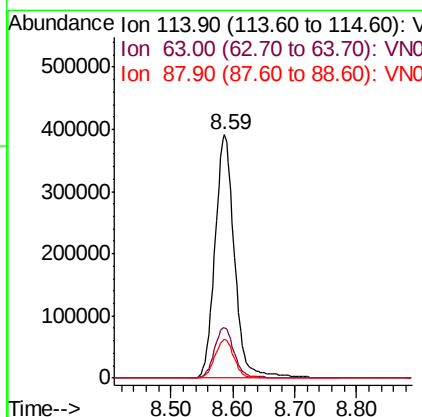
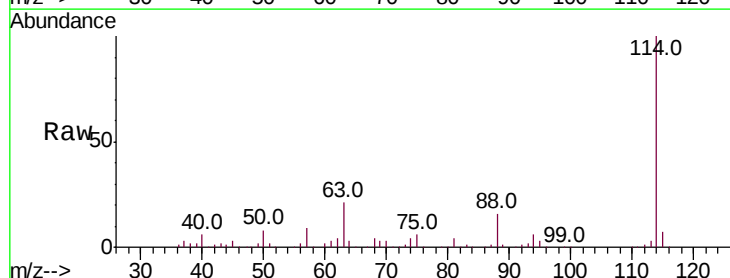
Manual Integrations
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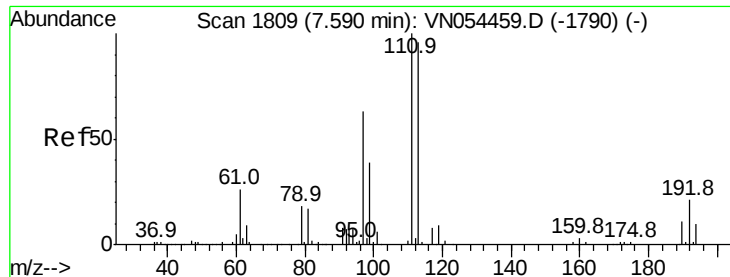
MMDadoda
 3/22/2019 4:15:32 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	35.2
88	15.7	0.0	30.2





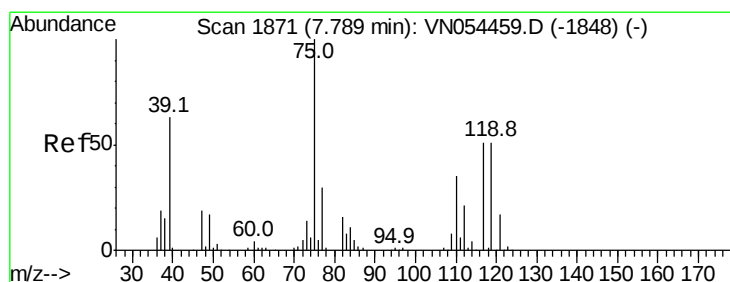
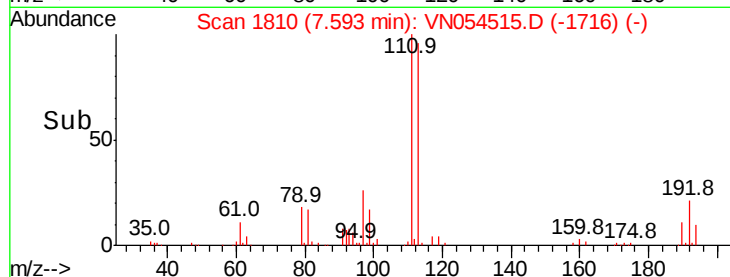
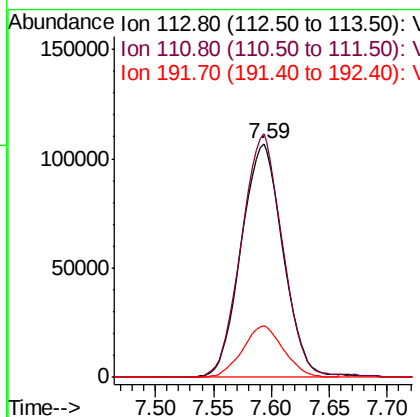
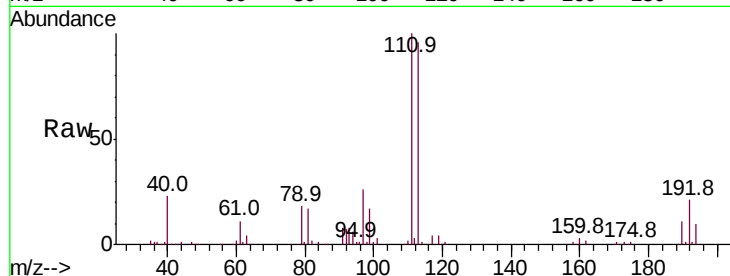
#35
 Dibromofluoromethane
 Concen: 48.399 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.2	123.4
192	21.9	19.2	28.8

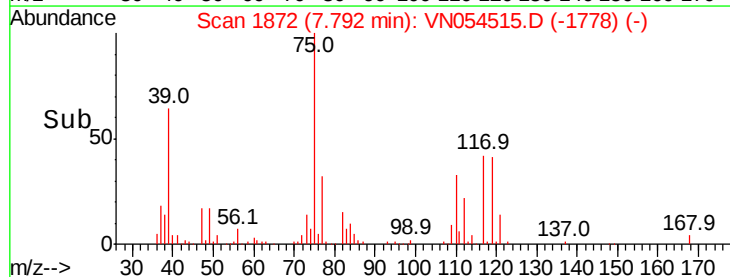
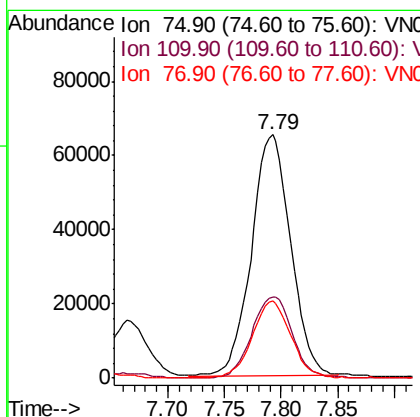
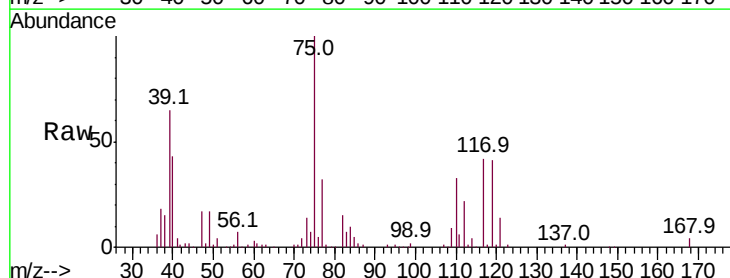
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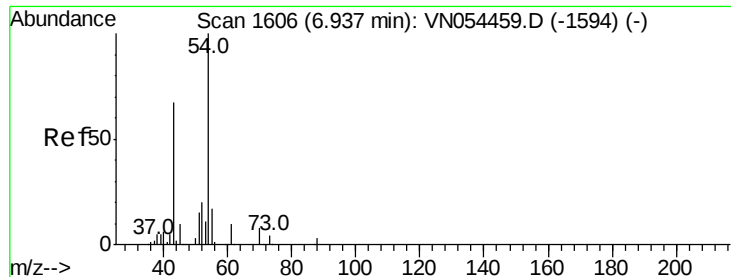
MMDadoda
 3/22/2019 4:15:32 PM



#36
 1,1-Dichloropropene
 Concen: 19.558 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.9	19.1	57.5
77	31.8	25.0	37.4





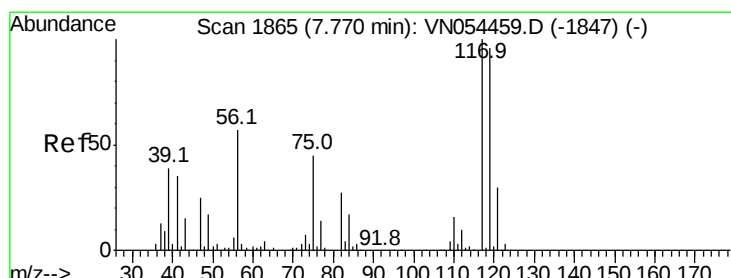
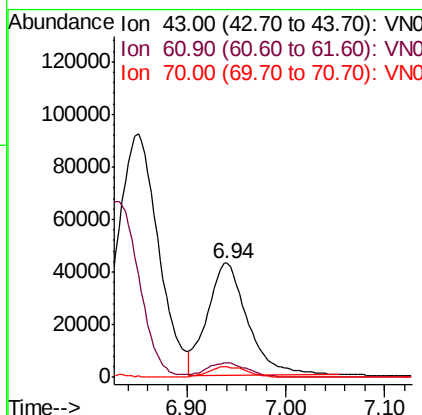
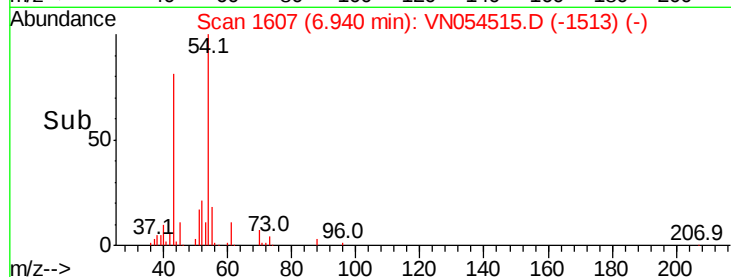
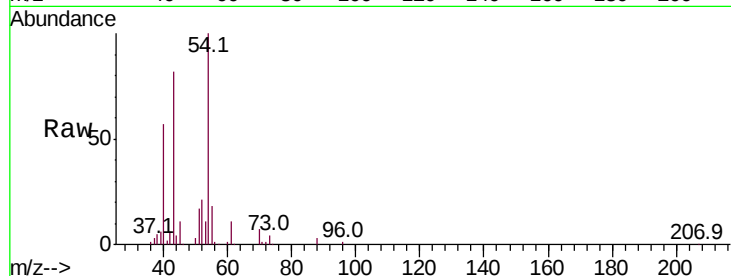
#37
Ethyl Acetate
Concen: 21.258 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.8	17.6
70	9.2	8.4	12.6

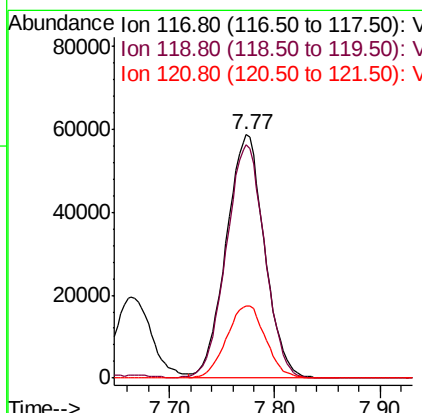
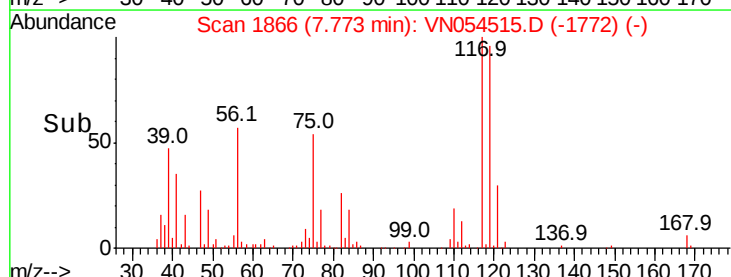
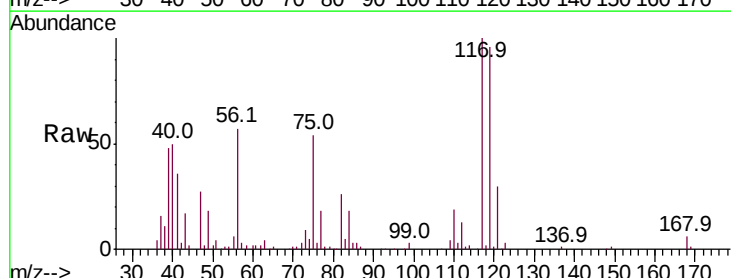
Manual Integrations
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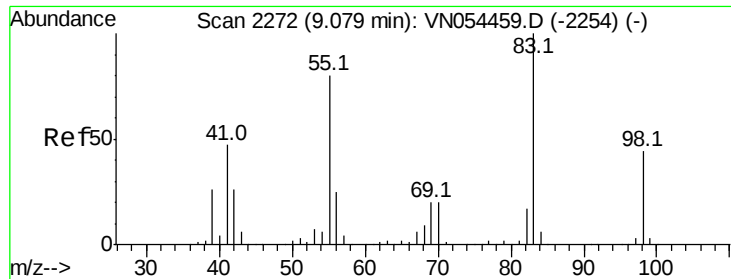
MMDadoda
3/22/2019 4:15:32 PM



#38
Carbon Tetrachloride
Concen: 19.004 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.3	114.5
121	29.7	24.6	36.8





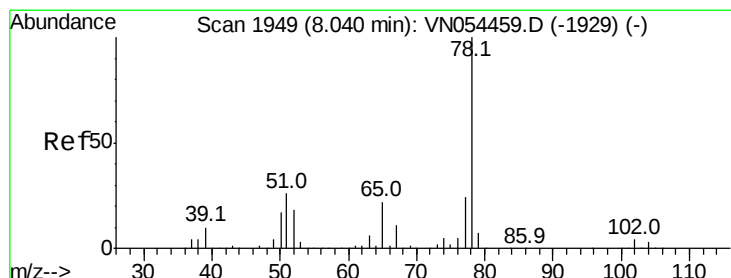
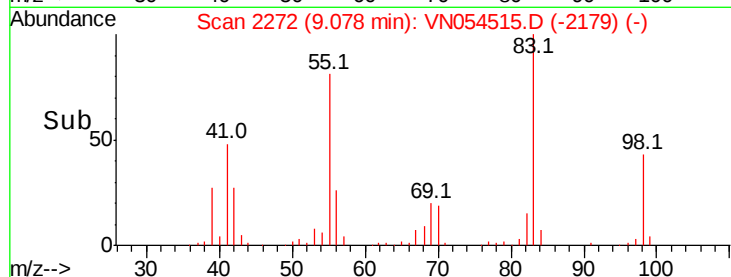
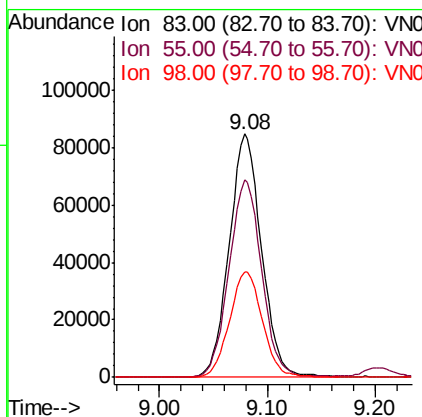
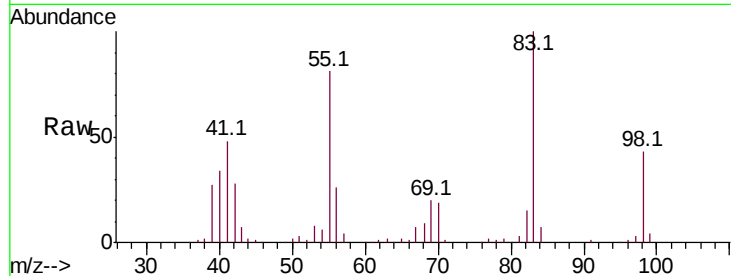
#39
Methvlcvclohexane
Concen: 19.333 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion	83	Resp	177280
Ion Ratio	100	Lower	Upper
83	100		
55	81.1	56.6	84.8
98	43.2	38.4	57.6

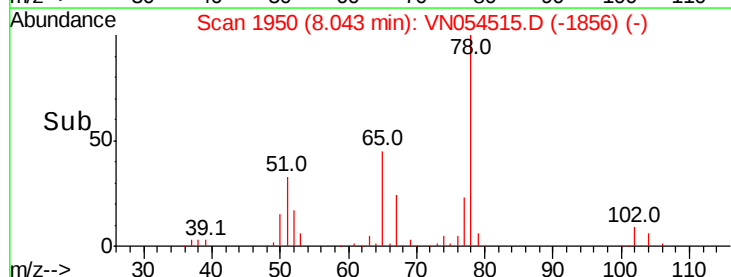
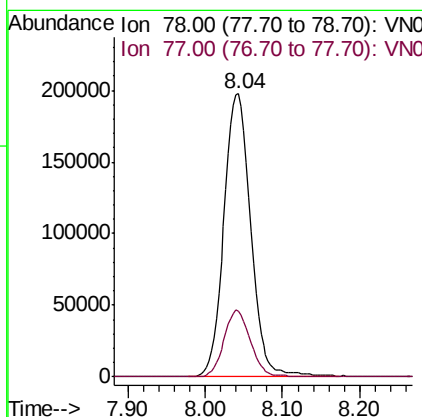
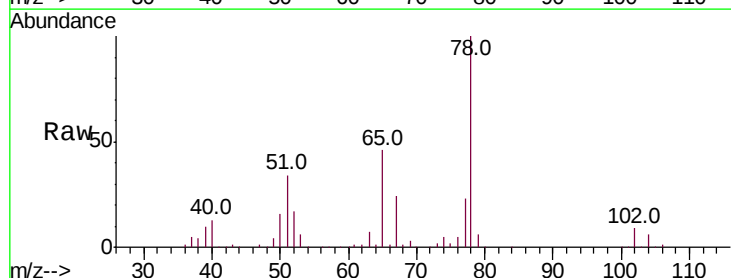
Manual Integrations
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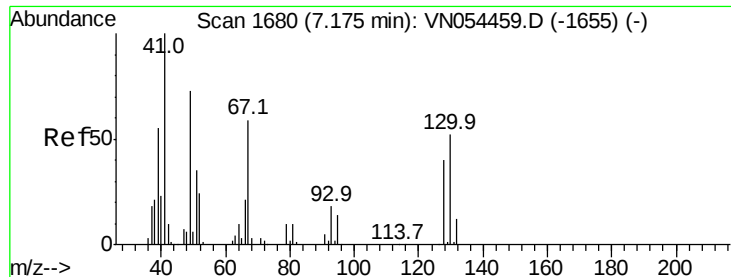
MMDadoda
3/22/2019 4:15:32 PM



#40
Benzene
Concen: 20.779 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	78	Resp	476326
Ion Ratio	100	Lower	Upper
78	100		
77	23.5	19.1	28.7





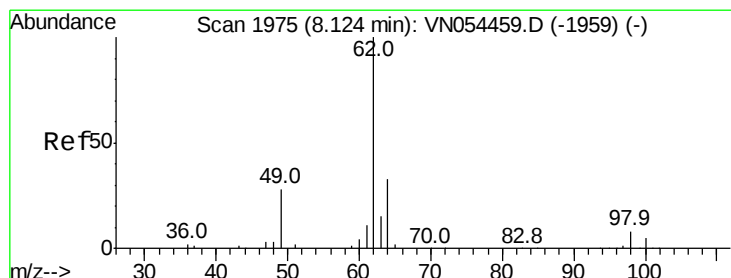
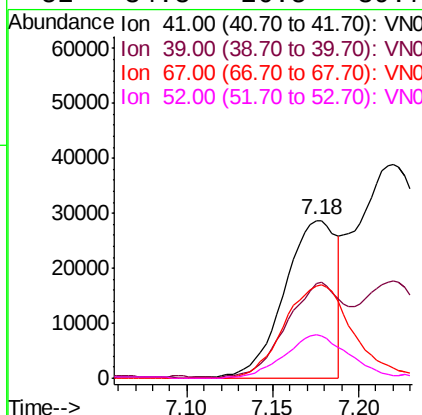
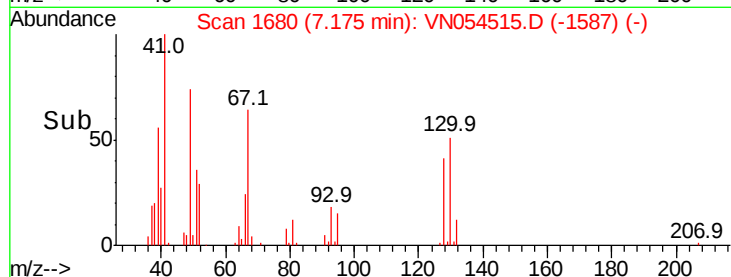
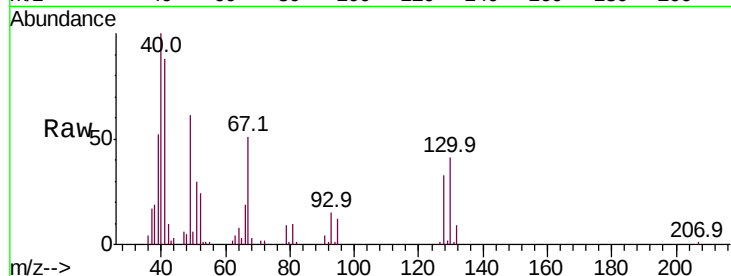
#41
Methacrylonitrile
Concen: 17.442 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	70.5	46.8	70.2#	
67	78.7	67.0	100.4	
52	34.8	26.5	39.7	

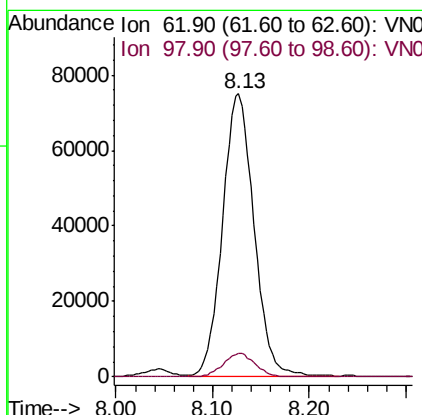
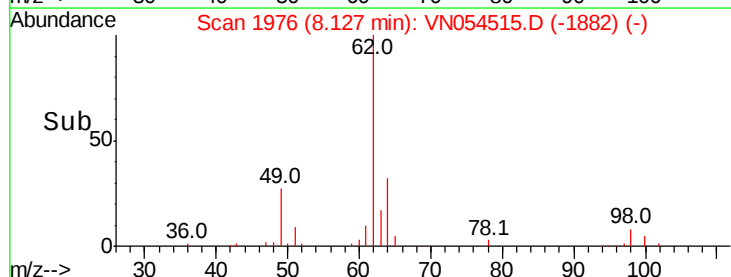
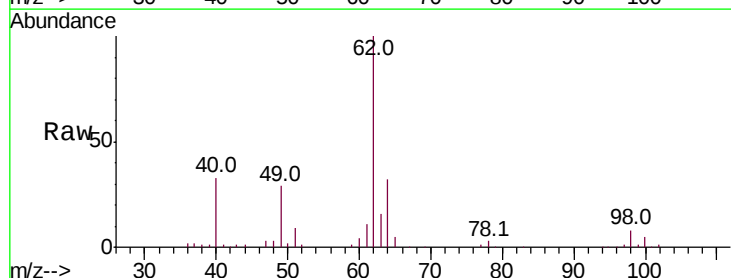
Manual Integrations
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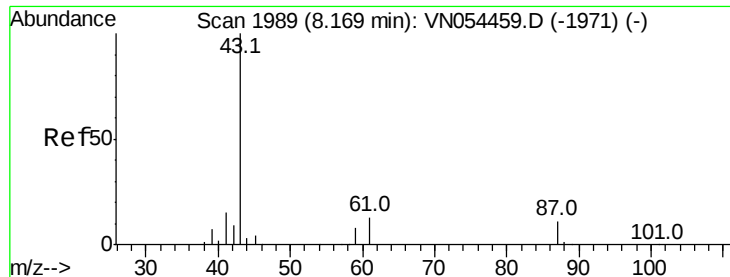
MMDadoda
3/22/2019 4:15:32 PM



#42
1,2-Dichloroethane
Concen: 20.254 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.4	0.0	18.4	





#43

Isopropyl Acetate

Concen: 20.843 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

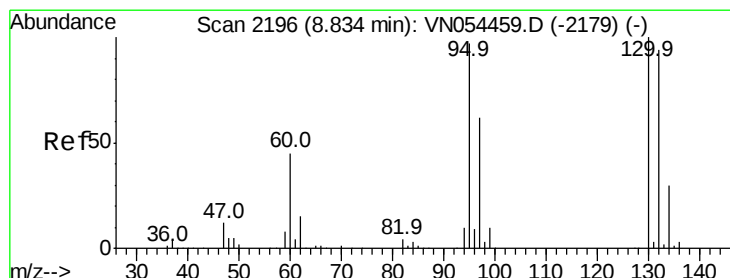
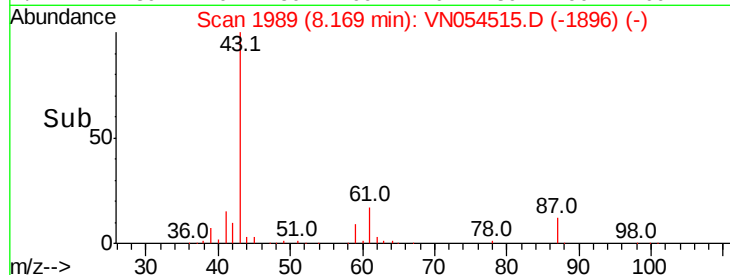
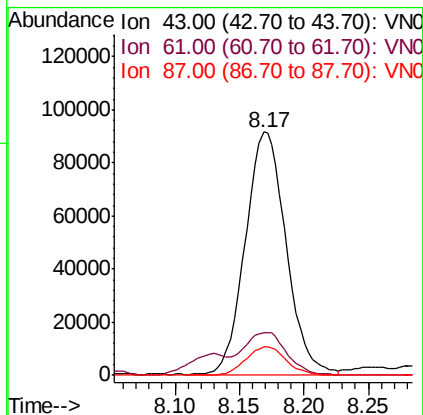
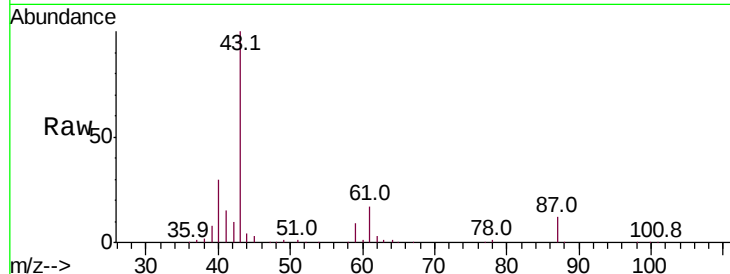
ClientSampleId :

VN0321WBS01

Tot Ion:	43	Resp:	200692
Ion Ratio	Lower	Upper	
43	100		
61	18.4	15.8	23.8
87	11.9	12.0	18.0#

Manual Integrations
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#44

Trichloroethene

Concen: 20.130 ug/l

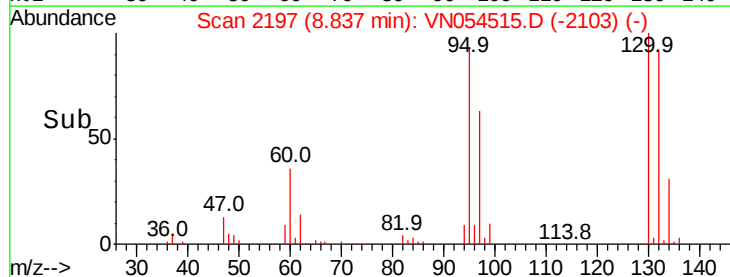
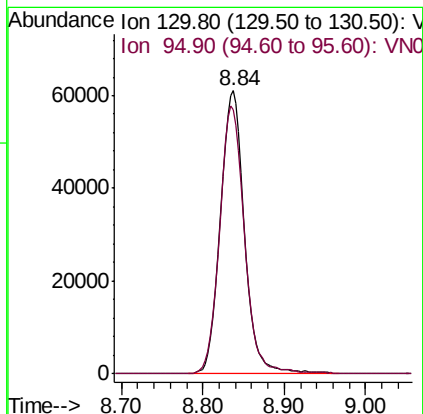
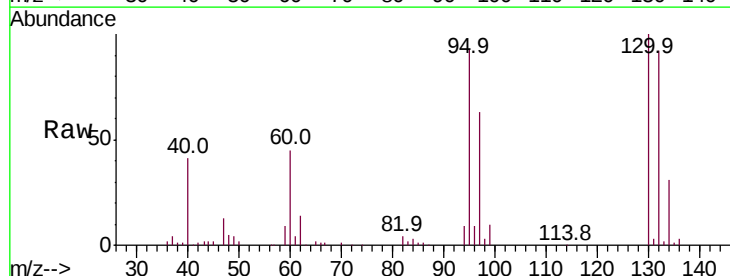
RT: 8.84 min Scan# 2197

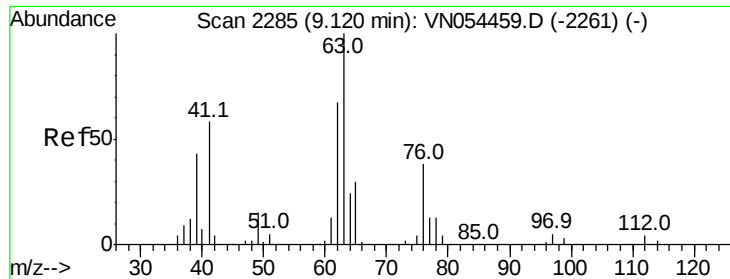
Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Tgt Ion:	130	Resp:	128291
Ion Ratio	Lower	Upper	
130	100		
95	93.5	0.0	185.2





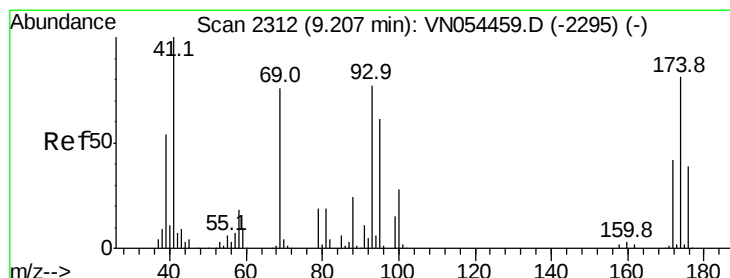
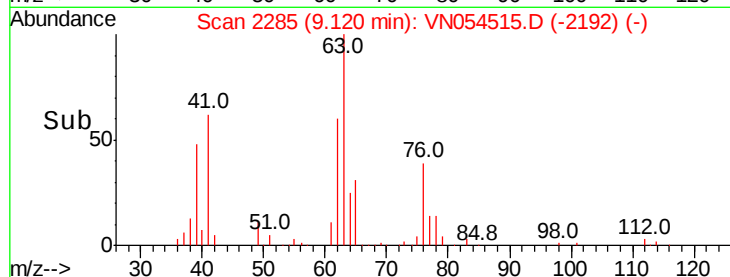
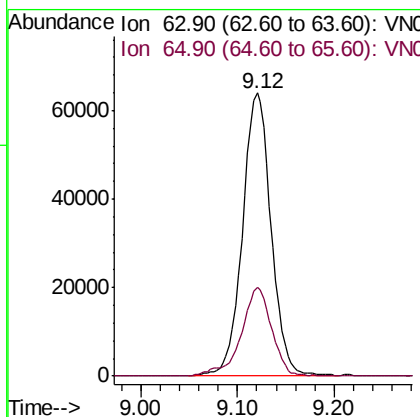
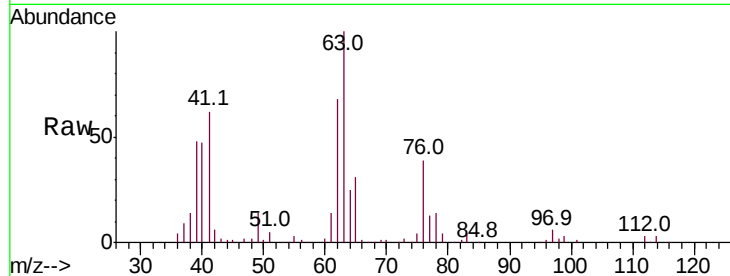
#45
 1,2-Dichloropropane
 Concen: 21.408 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.2	25.0	37.6

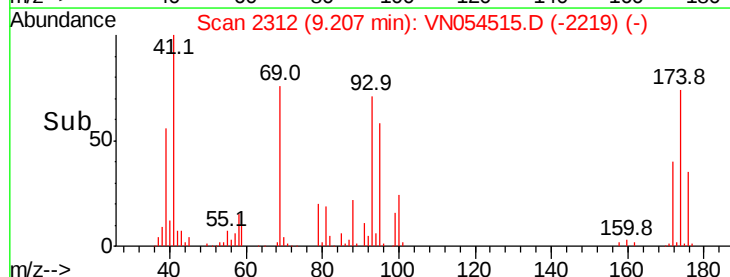
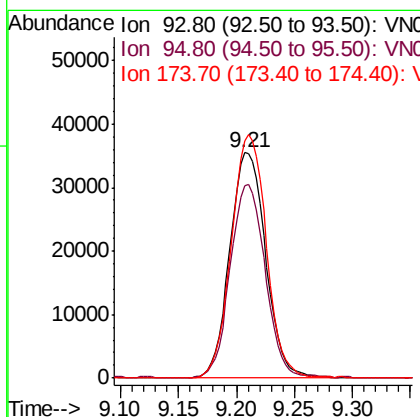
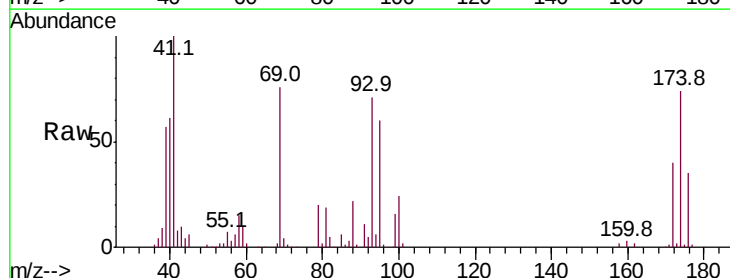
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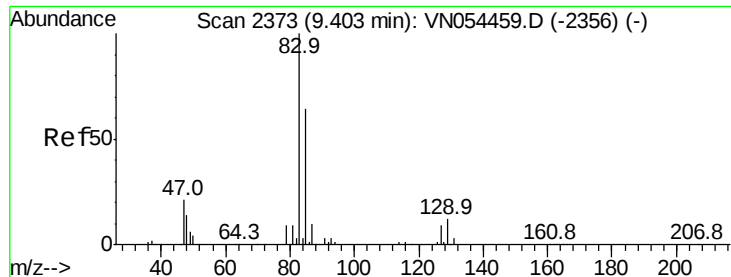
MMDadoda
 3/22/2019 4:15:32 PM



#46
 Dibromomethane
 Concen: 20.834 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.4	66.7	100.1
174	105.0	98.5	147.7





#47

Bromodichloromethane

Concen: 20.202 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

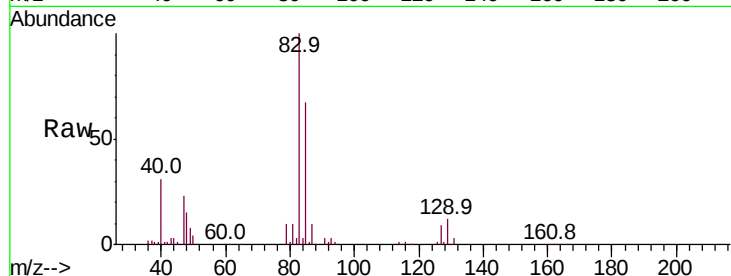
ClientSampleId :

VN0321WBS01

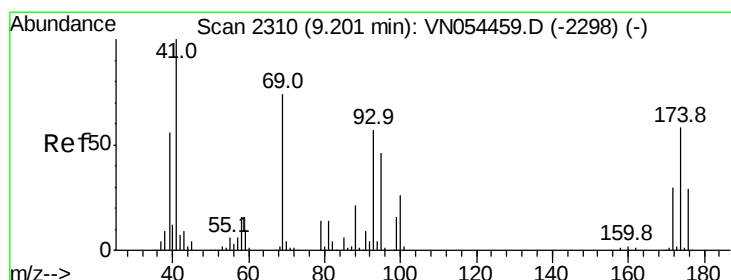
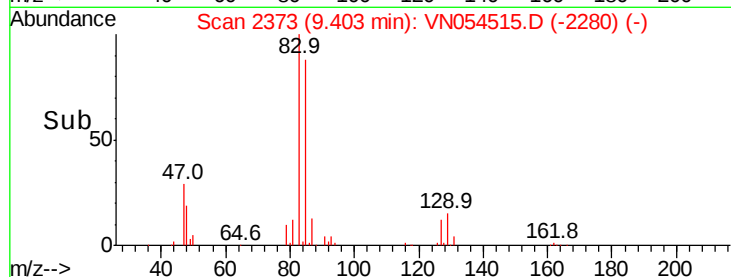
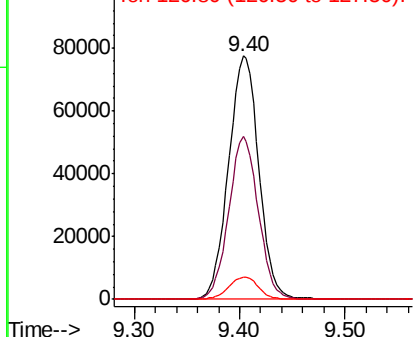
Tot Ion:	83	Resp:	153961
Ion	Ratio	Lower	Upper
83	100		
85	66.7	52.8	79.2
127	9.2	7.4	11.2

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



#48

Methyl methacrylate

Concen: 19.965 ug/l

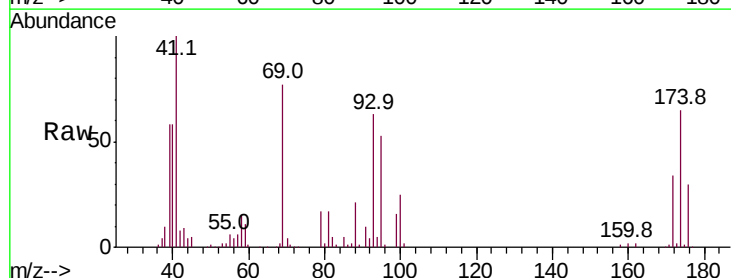
RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

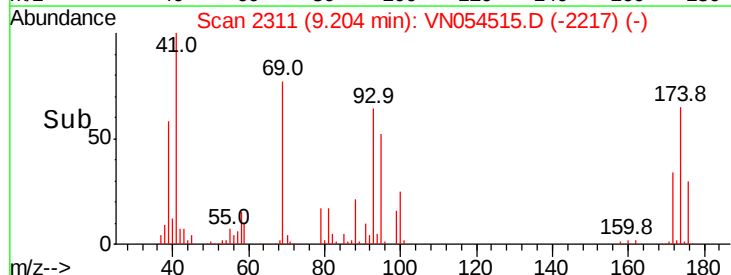
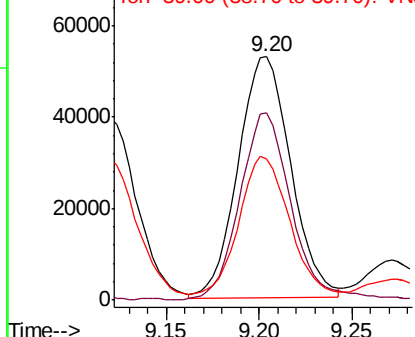
Lab File: VN054515.D

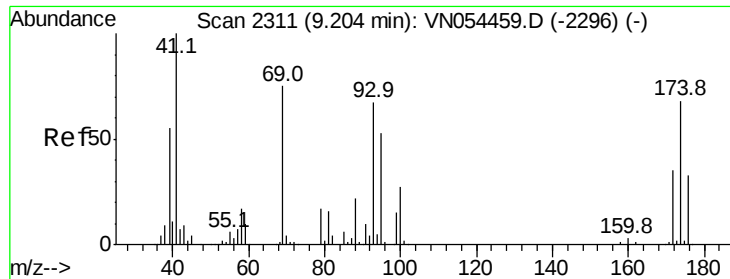
Acq: 21 Mar 2019 17:05

Tgt Ion:	41	Resp:	104341
Ion	Ratio	Lower	Upper
41	100		
69	76.3	72.6	108.8
39	58.0	47.5	71.3



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





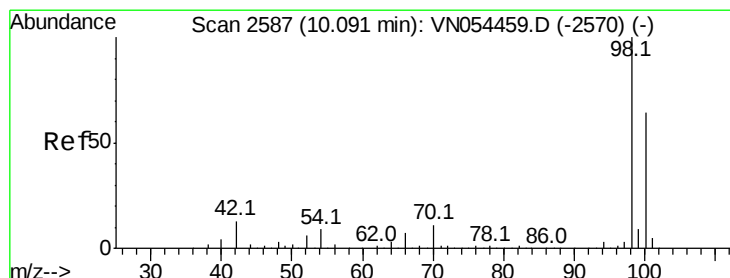
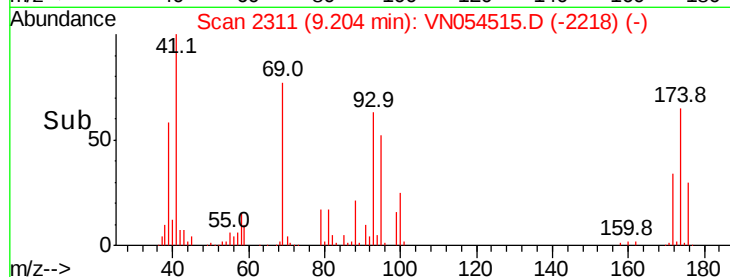
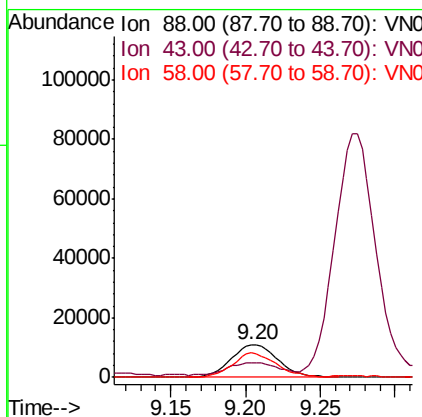
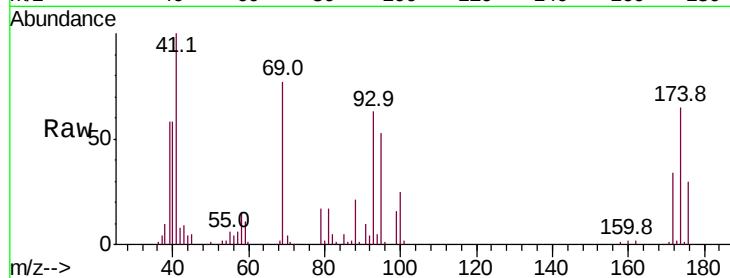
#49
1,4-Dioxane
Concen: 409.319 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampled :
VN0321WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.9	24.1	36.1#
58	70.2	50.8	76.2

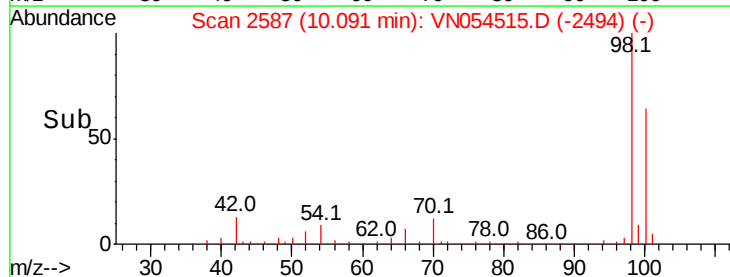
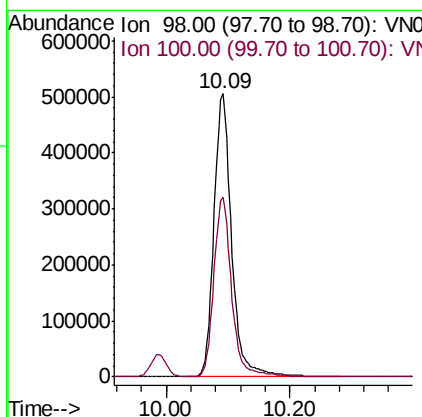
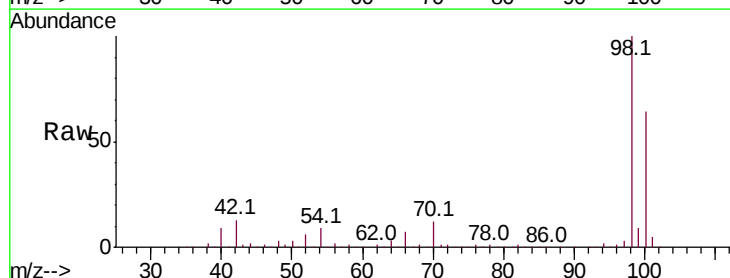
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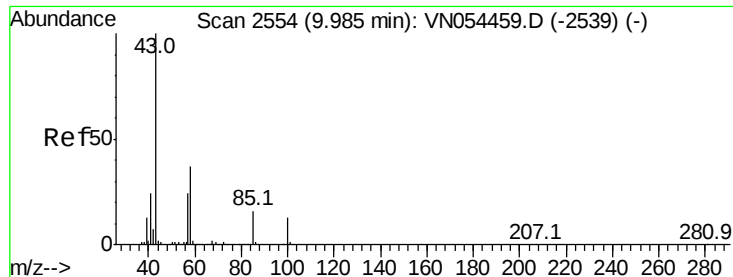
MMDadoda
3/22/2019 4:15:32 PM



#50
Toluene-d8
Concen: 48.316 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 107.227 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS01

Tot Ion: 43 Resp: 572206

Ion Ratio Lower Upper

43 100

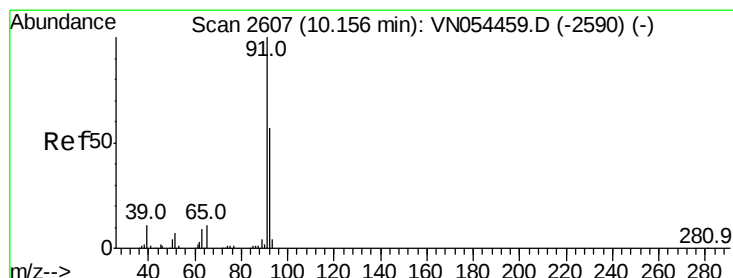
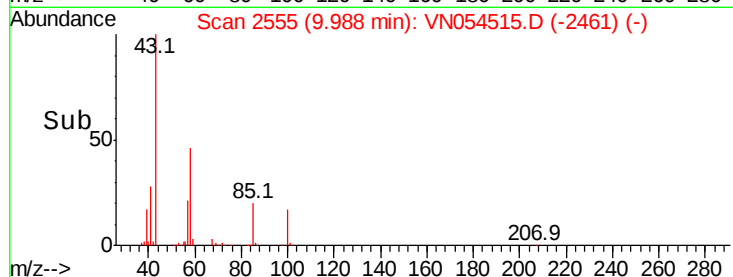
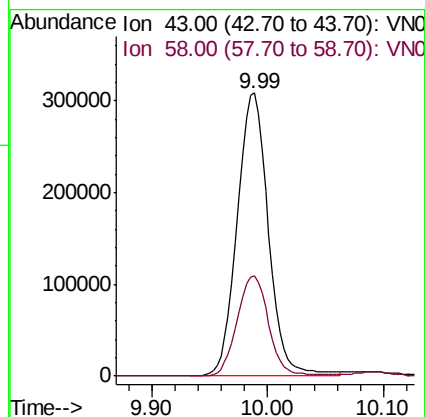
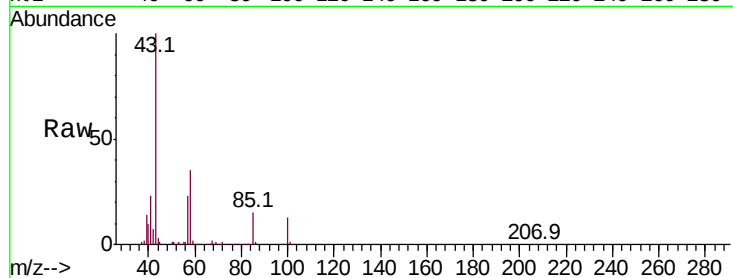
58 36.0 31.8 47.6

Manual Integrations

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#52

Toluene

Concen: 19.556 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054515.D

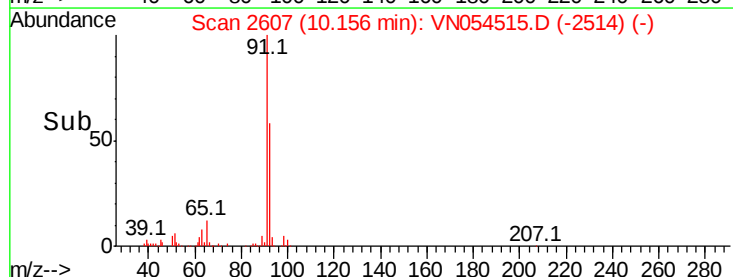
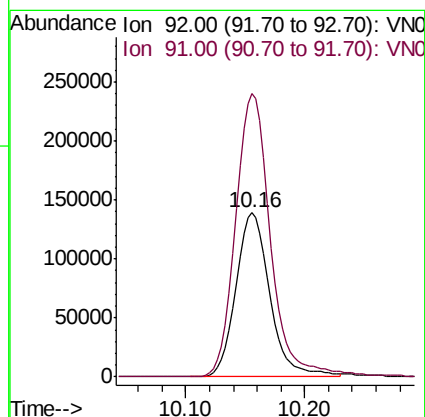
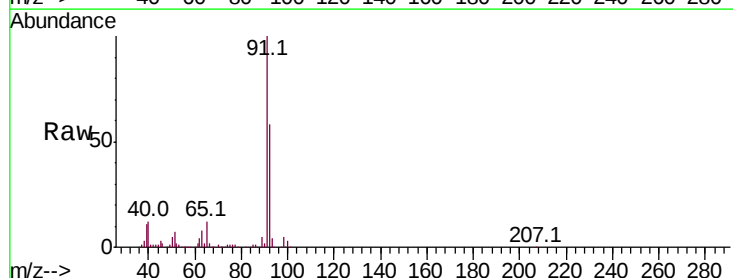
Acq: 21 Mar 2019 17:05

Tgt Ion: 92 Resp: 275709

Ion Ratio Lower Upper

92 100

91 178.4 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 18.858 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS01

Tot Ion: 75 Resp: 139906

Ion Ratio Lower Upper

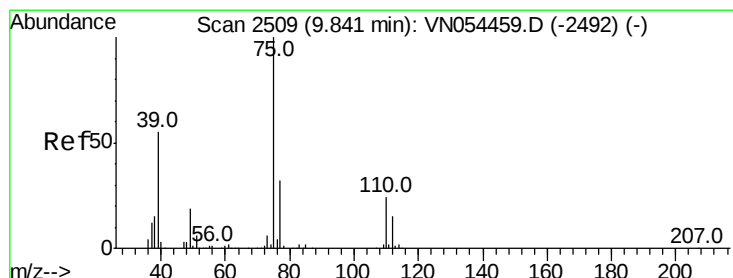
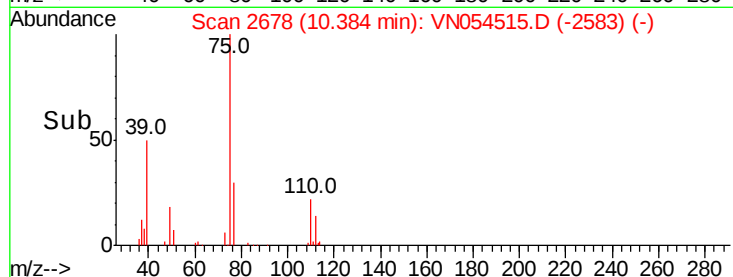
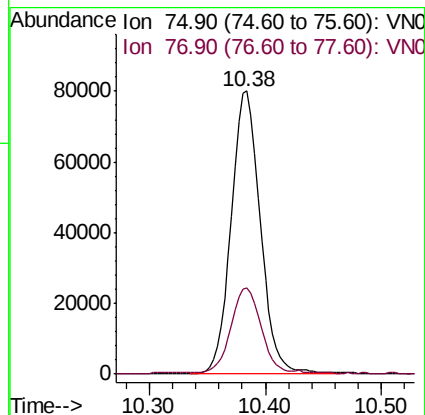
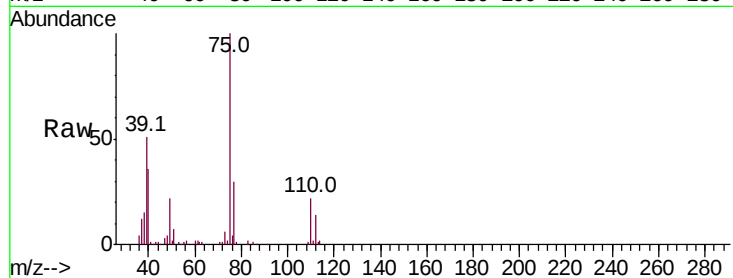
75 100

77 30.0 25.8 38.8

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#54

cis-1,3-Dichloropropene

Concen: 20.152 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

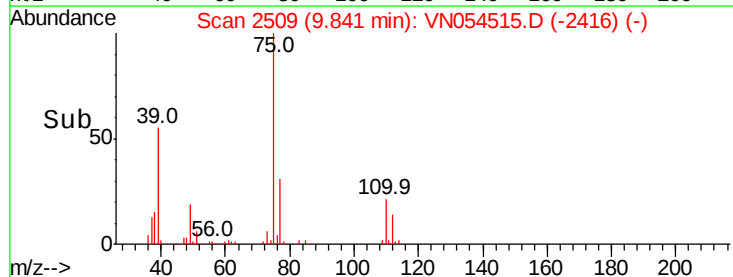
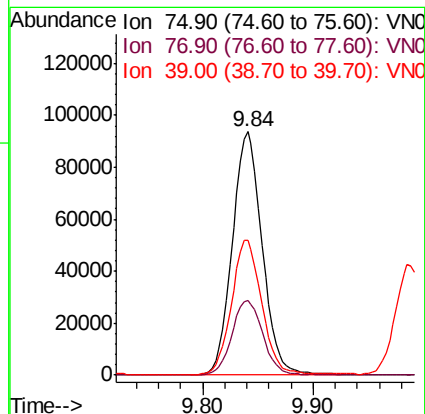
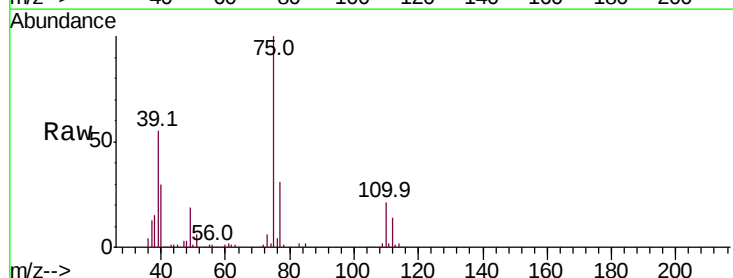
Tgt Ion: 75 Resp: 176096

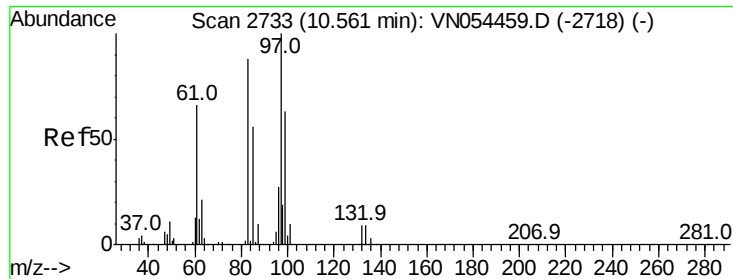
Ion Ratio Lower Upper

75 100

77 30.7 25.4 38.0

39 55.1 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 20.422 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

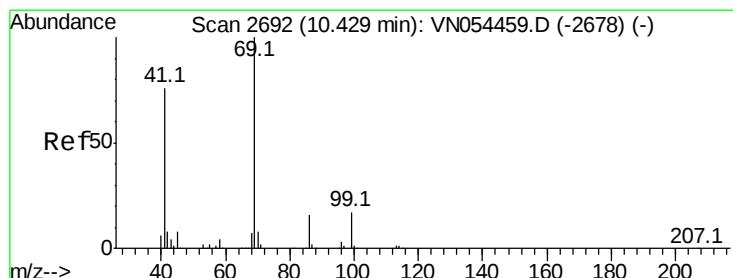
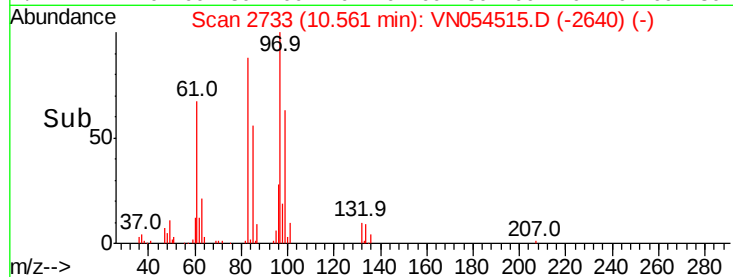
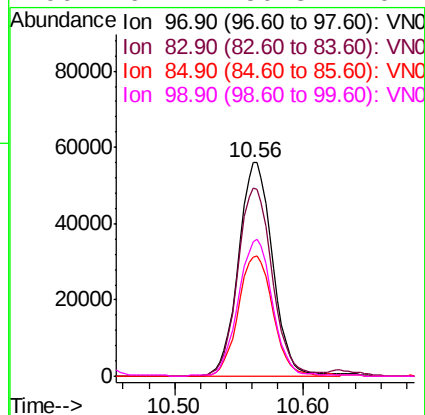
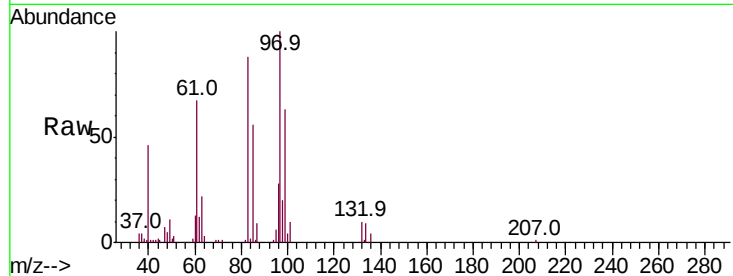
ClientSampleId :

VN0321WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100				
83	88.3	66.6	100.0		
85	55.9	44.4	66.6		
99	62.4	50.8	76.2		

Manual Integrations
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#56

Ethyl methacrylate

Concen: 20.216 ug/l

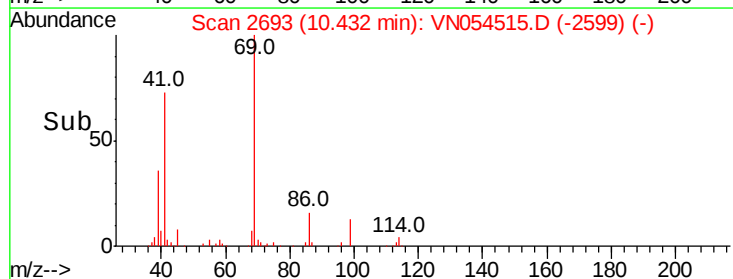
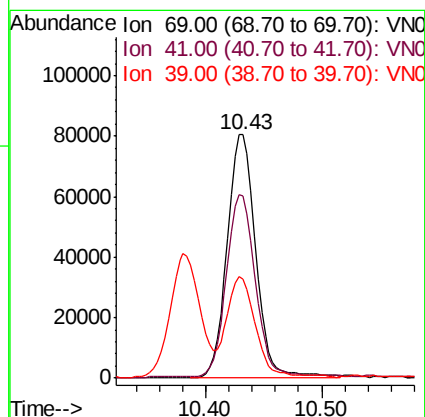
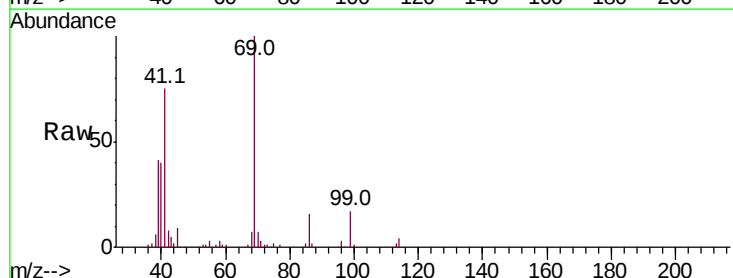
RT: 10.43 min Scan# 2693

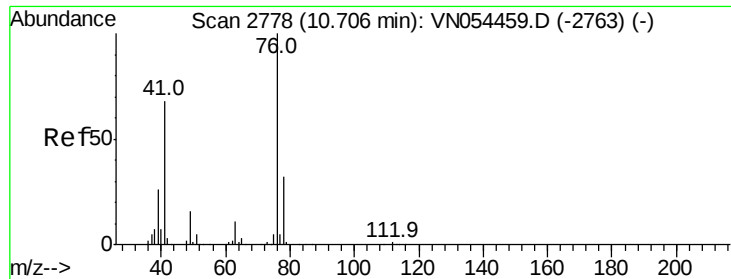
Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100				
41	75.3	49.4	74.2#		
39	43.6	28.3	42.5#		





#57

1,3-Dichloropropane

Concen: 21.033 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

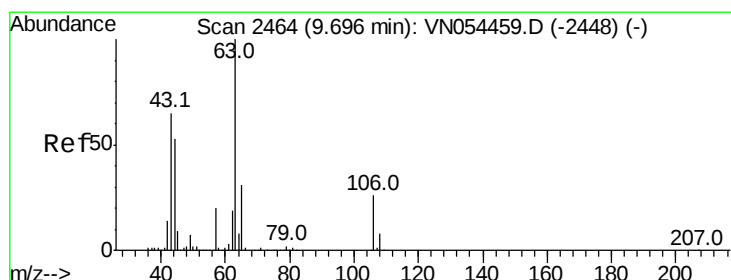
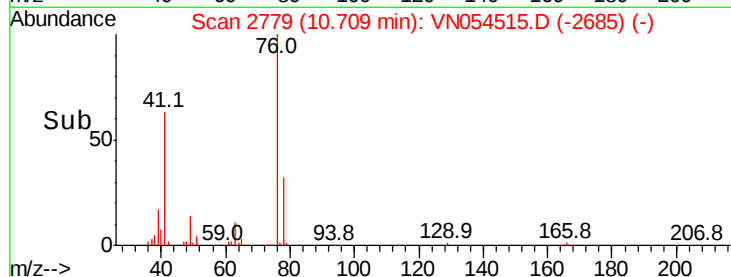
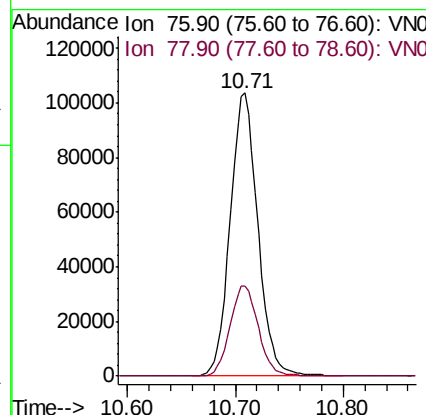
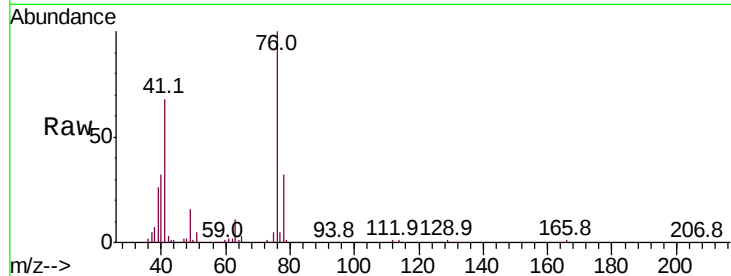
Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion: 76 Resp: 185291

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.7	38.5

Manual Integrations
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#58

2-Chloroethyl Vinyl ether

Concen: 96.486 ug/l

RT: 9.70 min Scan# 2464

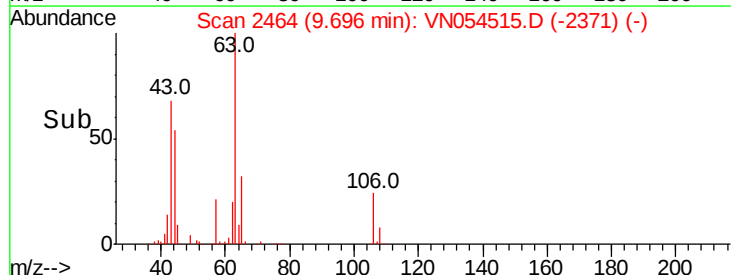
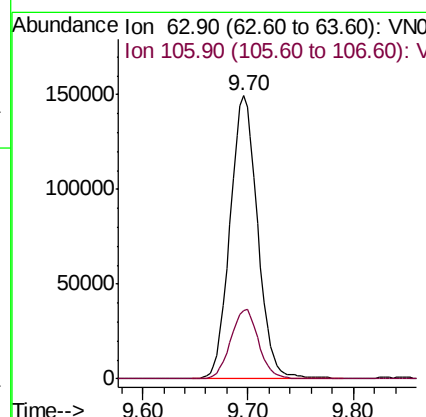
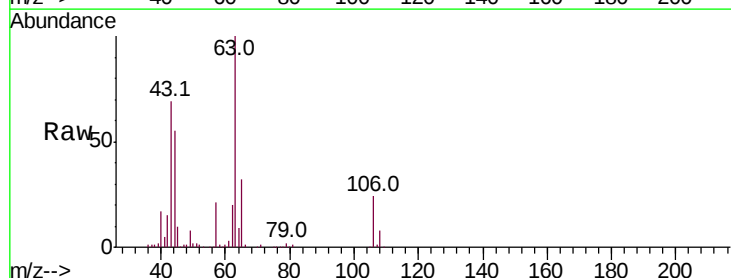
Delta R.T. -0.00 min

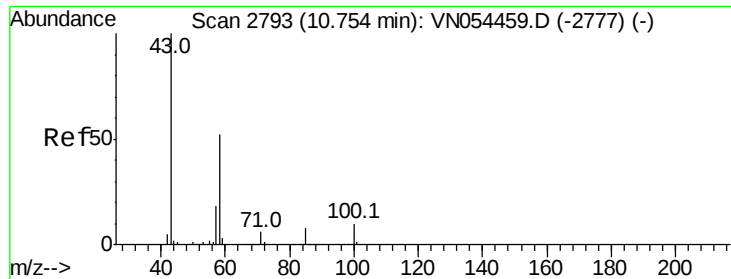
Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Tgt Ion: 63 Resp: 270258

Ion	Ratio	Lower	Upper
63	100		
106	24.9	24.4	36.6





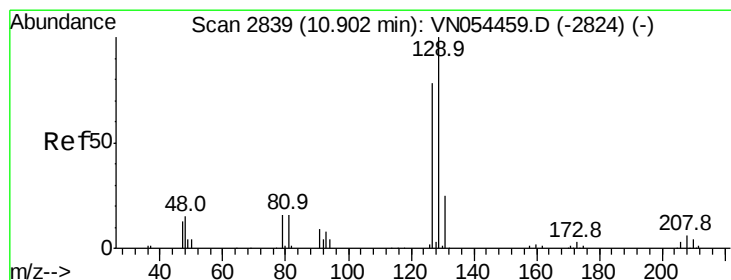
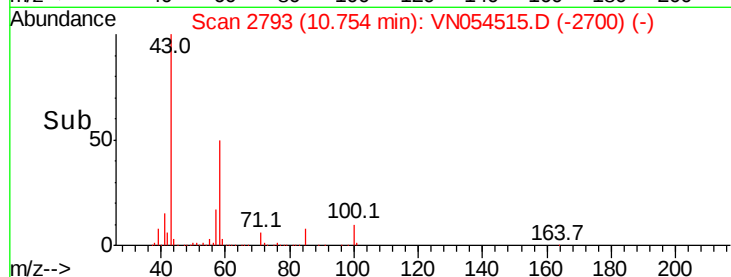
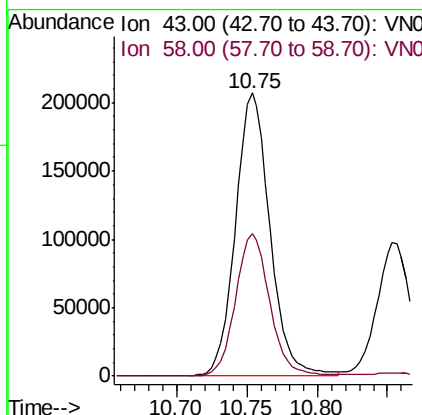
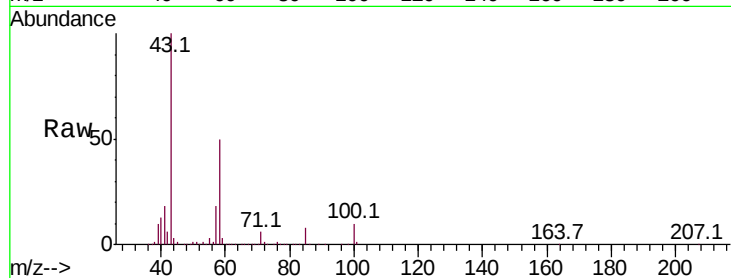
#59
2-Hexanone
Concen: 100.931 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion: 43 Resp: 351814
Ion Ratio Lower Upper
43 100
58 50.7 28.0 83.9

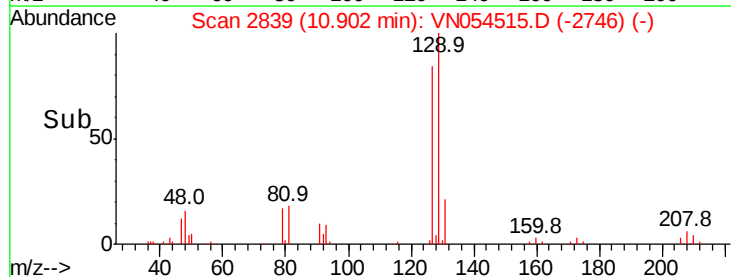
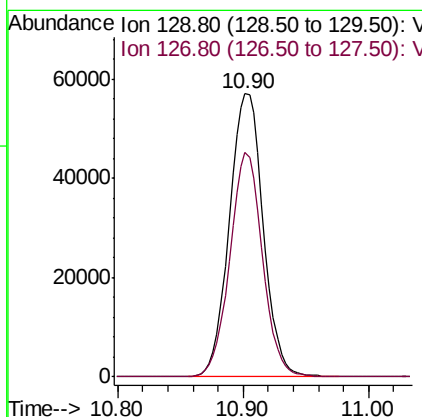
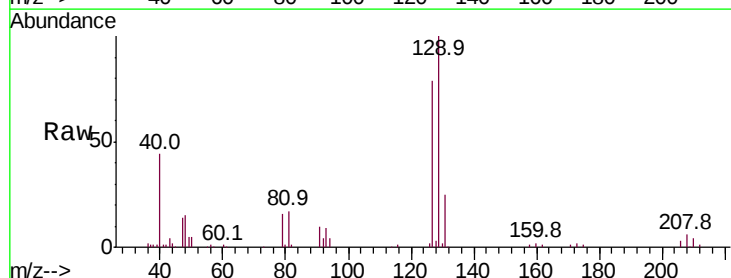
Manual Integrations
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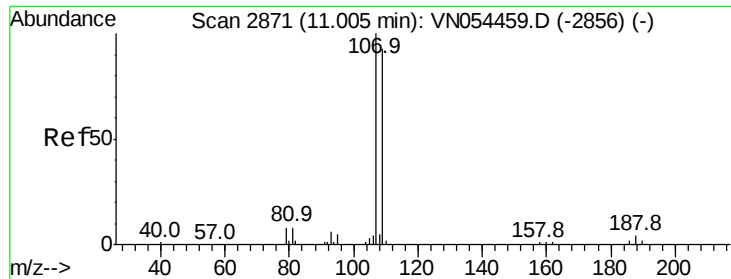
MMDadoda
3/22/2019 4:15:32 PM



#60
Dibromochloromethane
Concen: 19.815 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion: 129 Resp: 106860
Ion Ratio Lower Upper
129 100
127 76.2 38.6 115.8





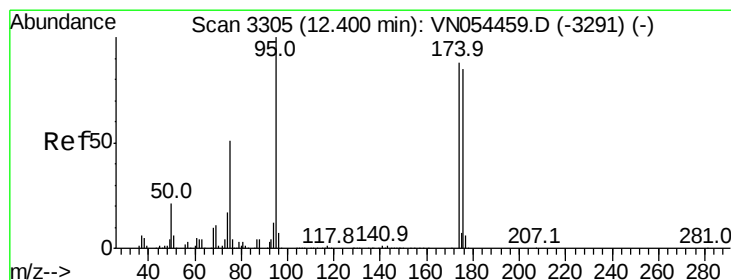
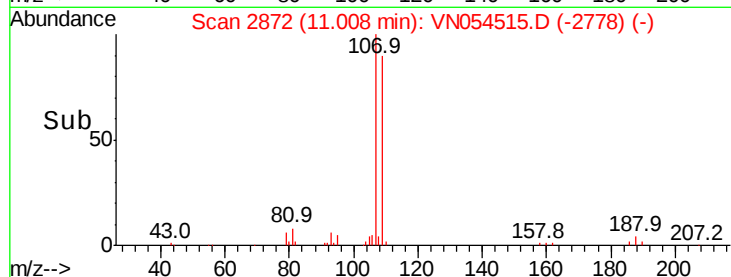
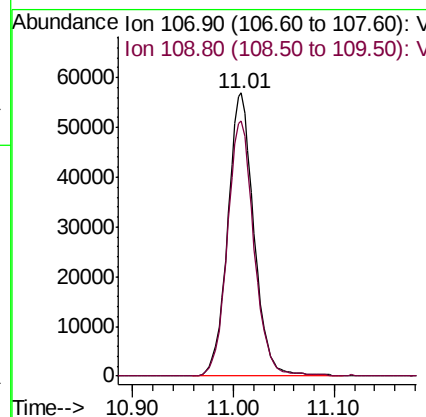
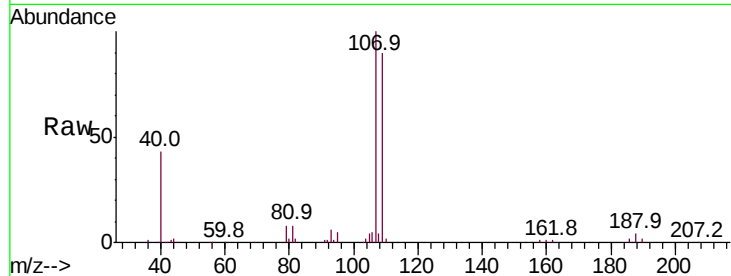
#61
 1,2-Dibromoethane
 Concen: 20.565 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBS01

Tot Ion: 107 Resp: 103038
 Ion Ratio Lower Upper
 107 100
 109 92.2 75.9 113.9

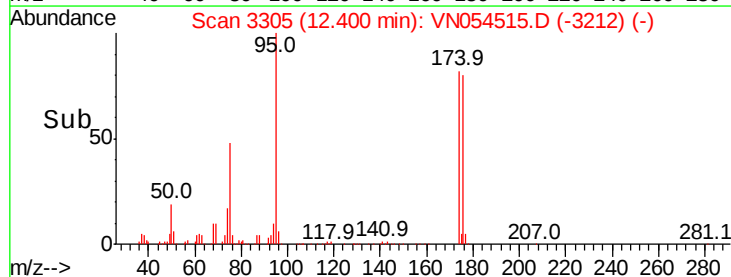
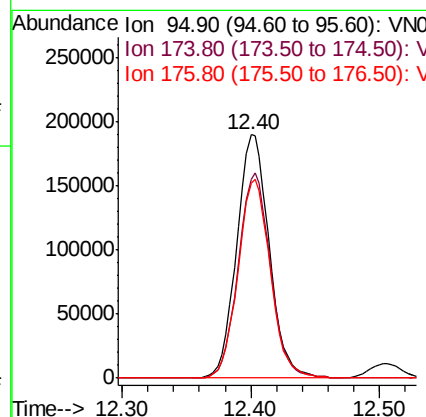
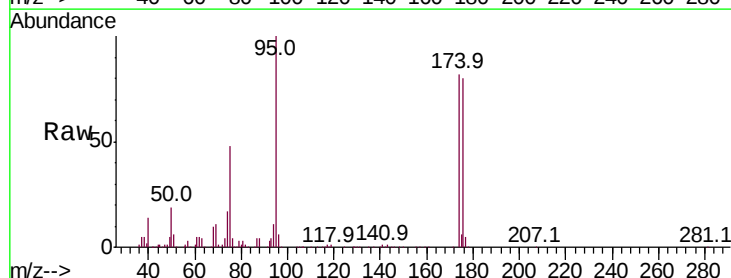
Manual Integrations
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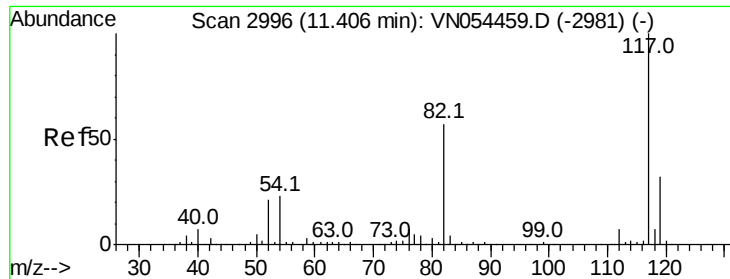
MMDadoda
 3/22/2019 4:15:32 PM



#62
 4-Bromofluorobenzene
 Concen: 47.051 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Tgt Ion: 95 Resp: 332455
 Ion Ratio Lower Upper
 95 100
 174 83.8 0.0 191.0
 176 81.1 0.0 187.4





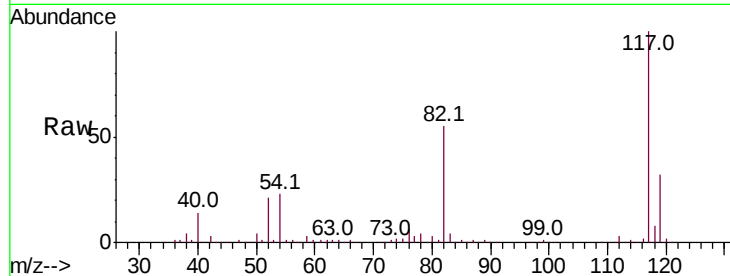
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampled :
VN0321WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.4	40.0	60.0
119	31.8	25.8	38.6

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3/22/2019 4:15:32 PM

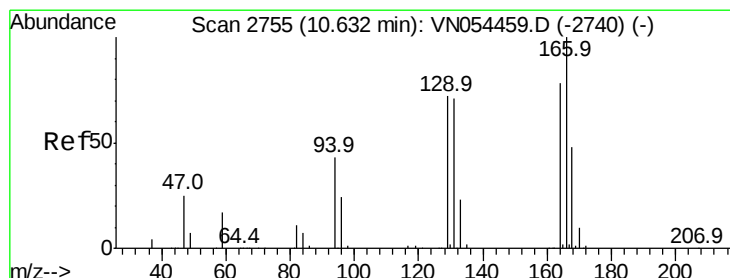
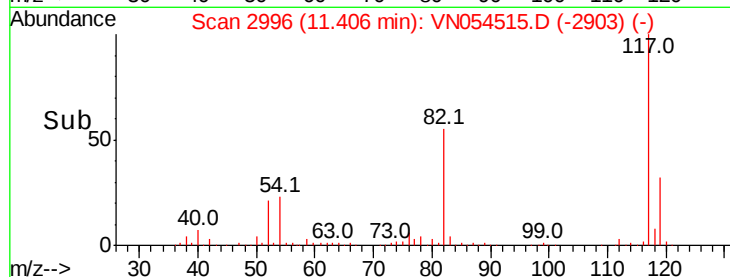
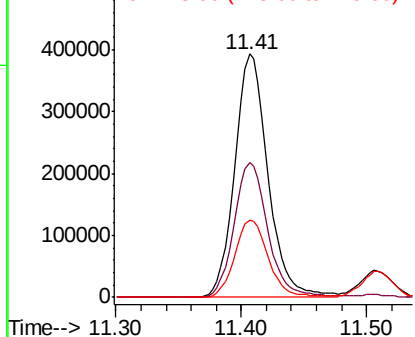


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 20.040 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.8	103.9	155.9
129	92.8	71.1	106.7
131	89.7	68.2	102.4

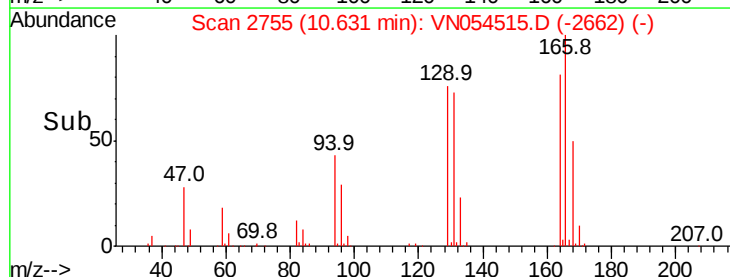
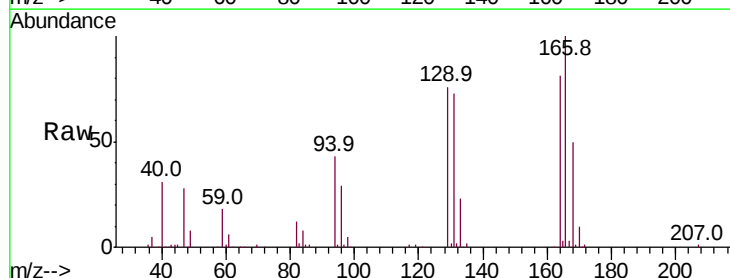
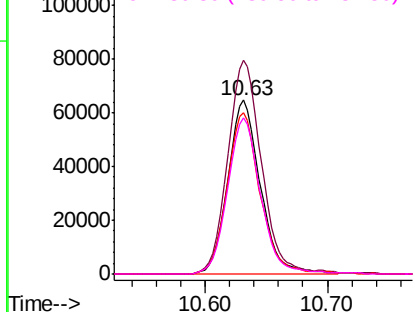
Abundance

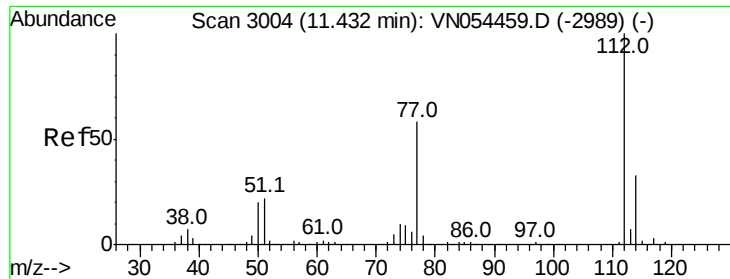
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





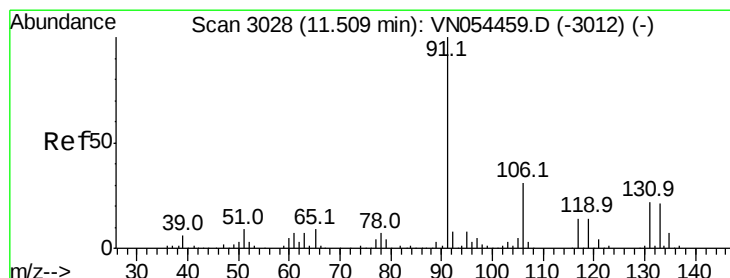
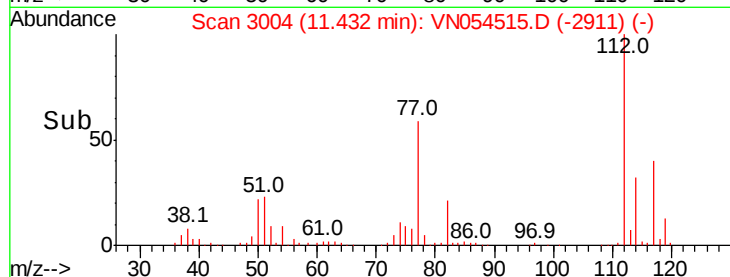
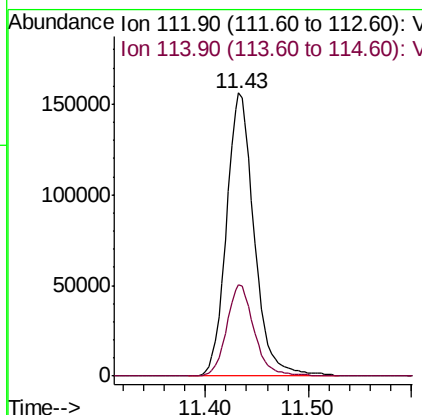
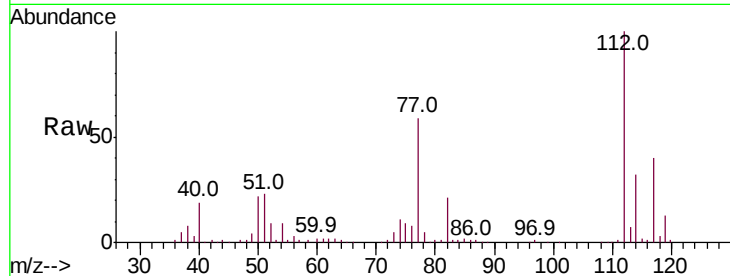
#65
Chlorobenzene
Concen: 19.837 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion:112 Resp: 292614
Ion Ratio Lower Upper
112 100
114 32.5 25.9 38.9

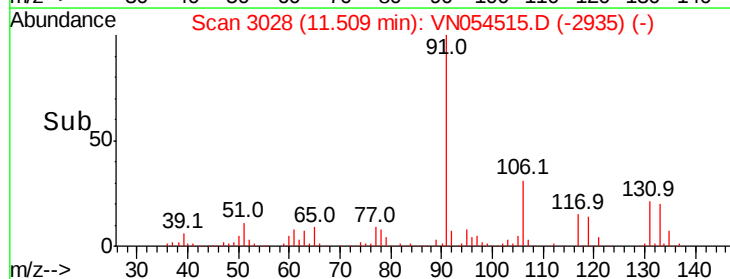
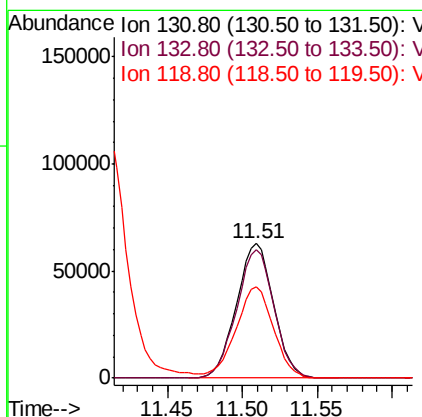
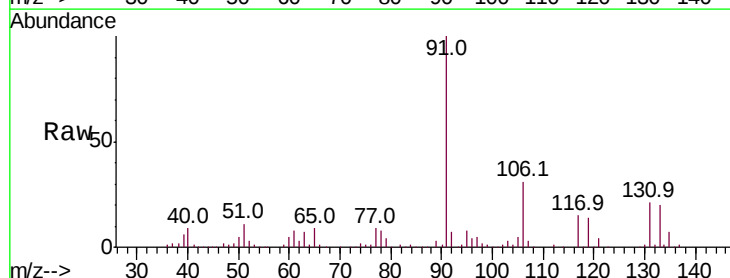
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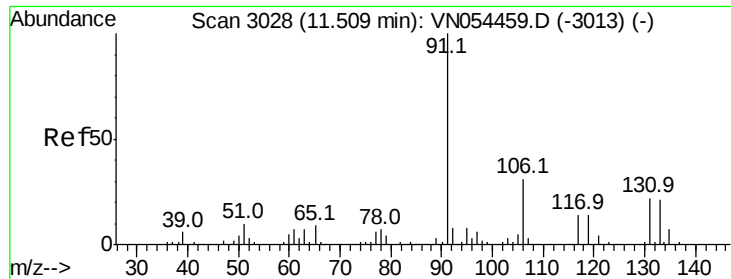
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.528 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion:131 Resp: 108690
Ion Ratio Lower Upper
131 100
133 95.6 47.6 142.9
119 68.5 32.4 97.0





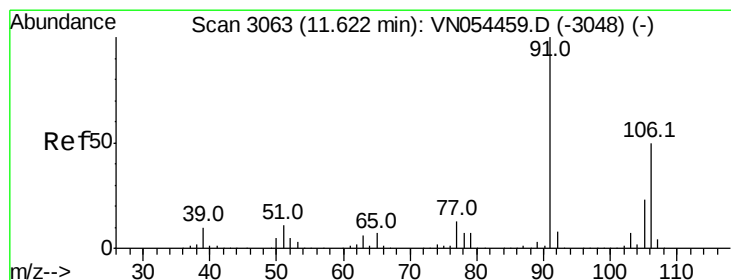
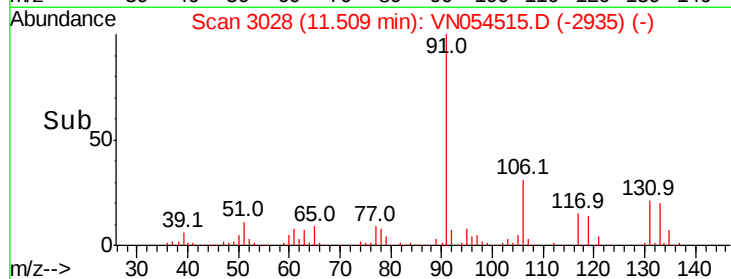
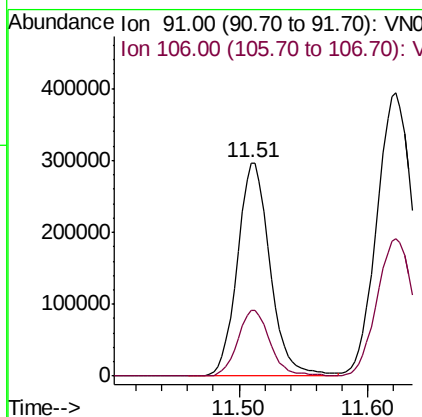
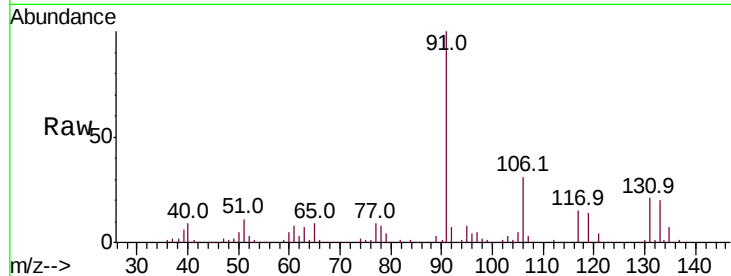
#67
Ethyl Benzene
Concen: 20.103 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion: 91 Resp: 523830
Ion Ratio Lower Upper
91 100
106 31.0 25.5 38.3

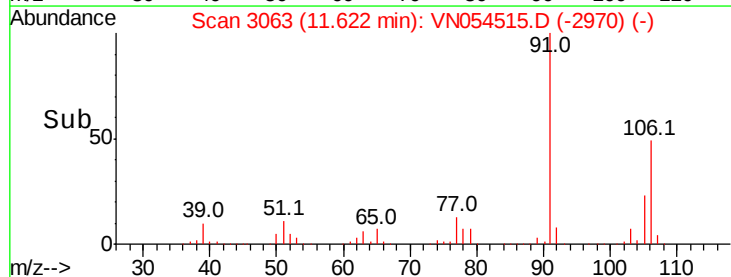
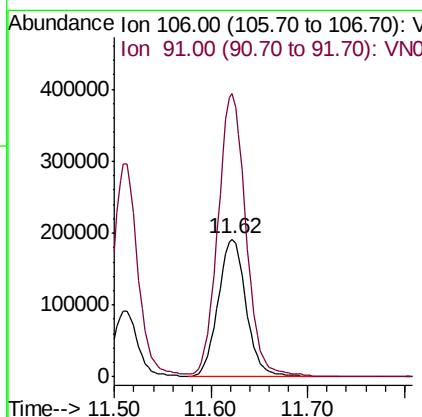
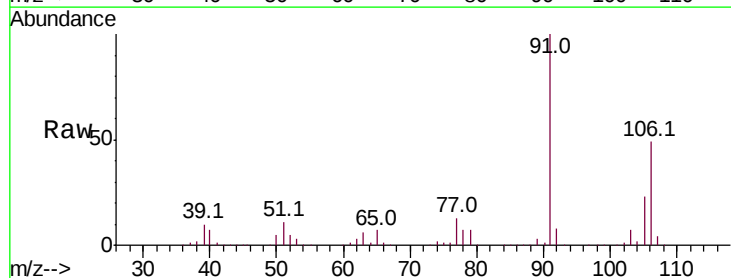
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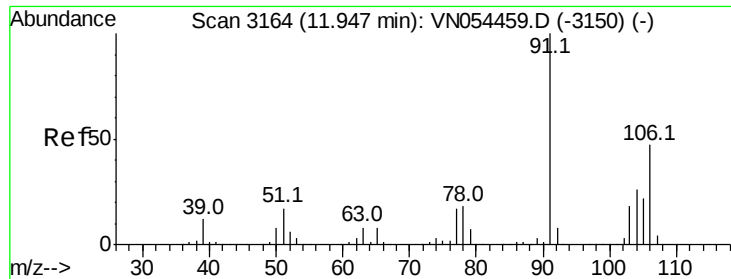
MMDadoda
3/22/2019 4:15:32 PM



#68
m/p-Xylenes
Concen: 39.111 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion: 106 Resp: 386017
Ion Ratio Lower Upper
106 100
91 205.8 159.4 239.2





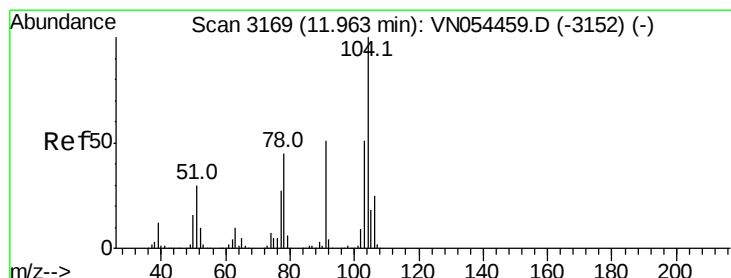
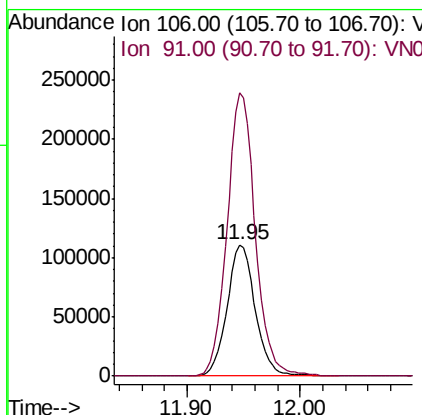
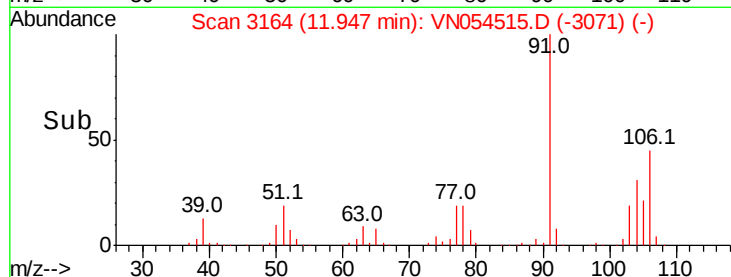
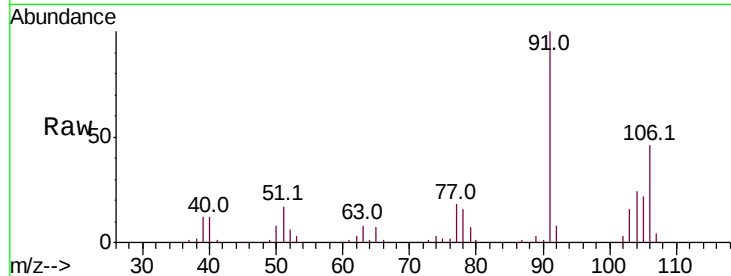
#69
o-Xylene
Concen: 19.941 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampled :
VN0321WBS01

Tot Ion:106 Resp: 192208
Ion Ratio Lower Upper
106 100
91 215.2 105.7 317.1

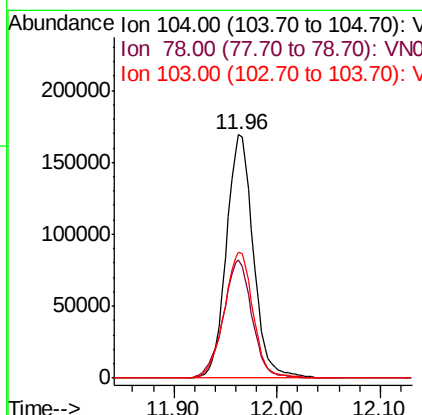
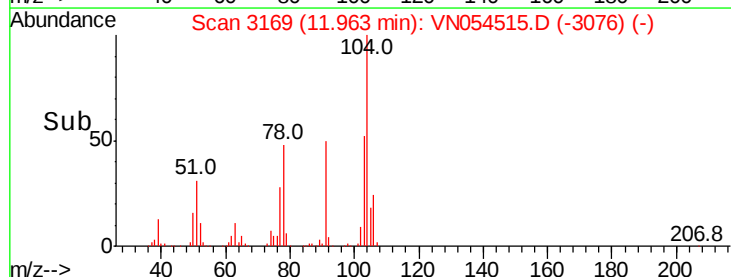
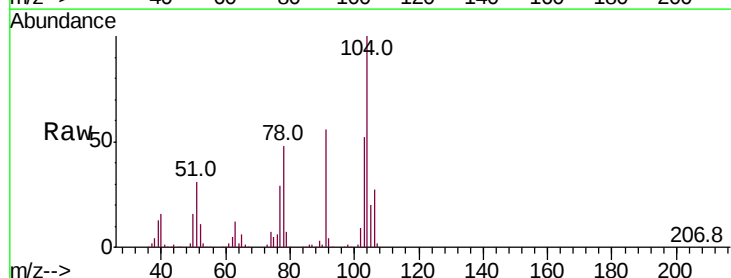
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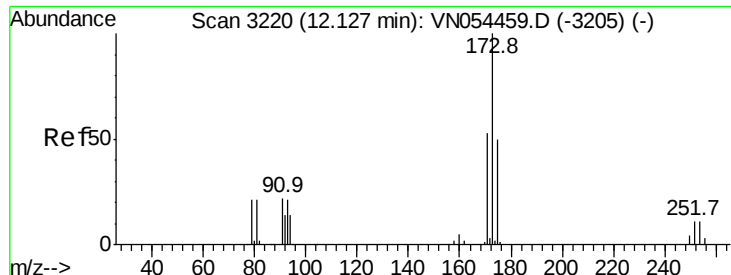
MMDadoda
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#70
Styrene
Concen: 19.721 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion:104 Resp: 308684
Ion Ratio Lower Upper
104 100
78 51.9 38.2 57.2
103 55.4 44.4 66.6





#71

Bromoform

Concen: 18.105 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS01

Tot Ion:173 Resp: 60678

Ion Ratio Lower Upper

173 100

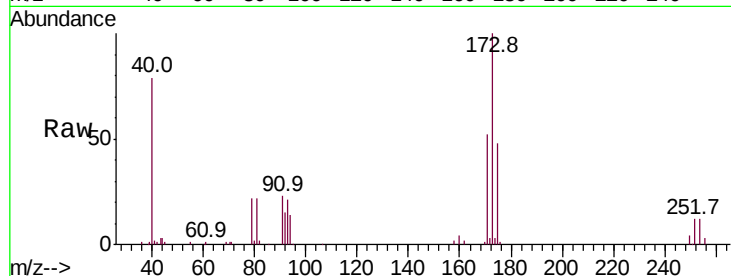
175 49.0 24.4 73.2

254 0.0 0.1 0.1#

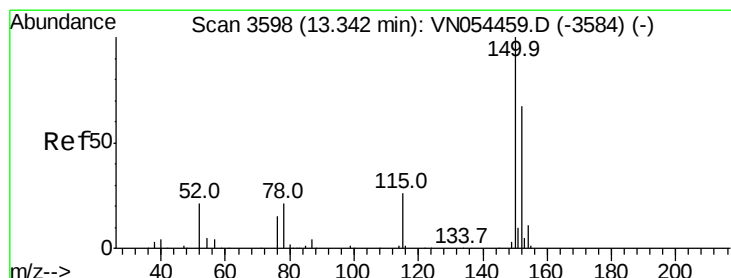
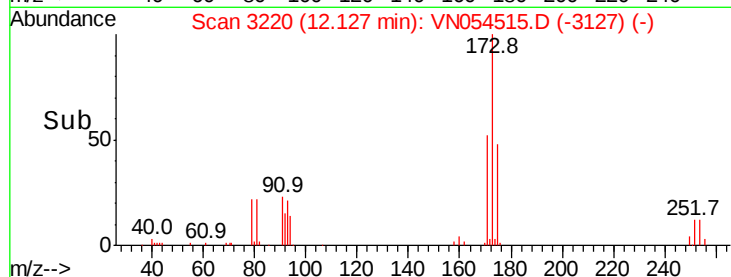
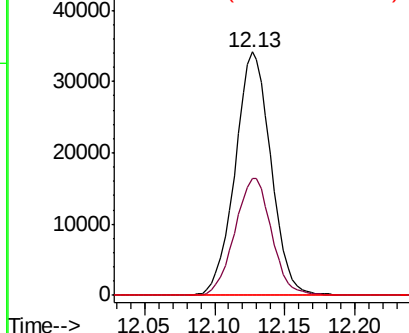
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

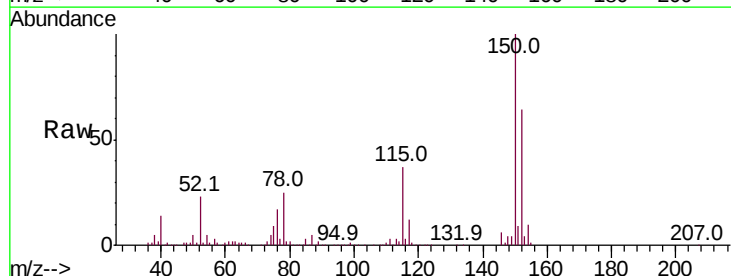
Tgt Ion:152 Resp: 301515

Ion Ratio Lower Upper

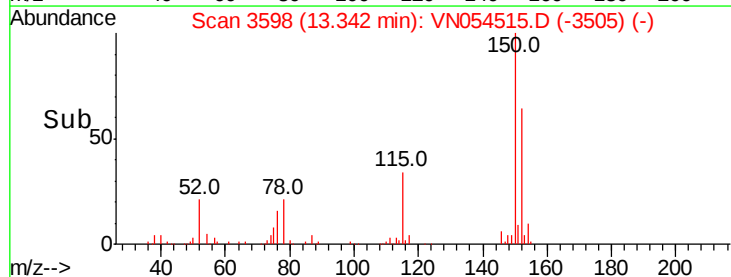
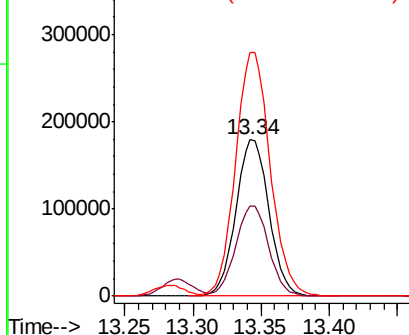
152 100

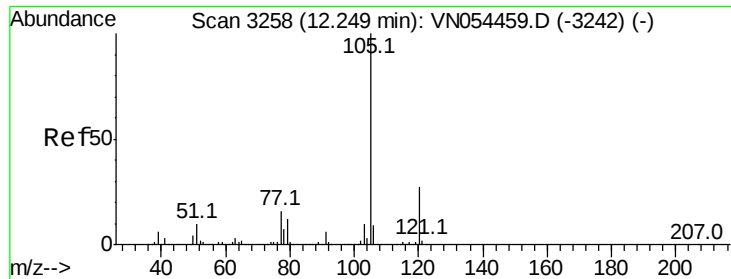
115 58.0 27.2 81.6

150 163.2 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.807 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS01

Tot Ion: 105 Resp: 505550

Ion Ratio Lower Upper

105 100

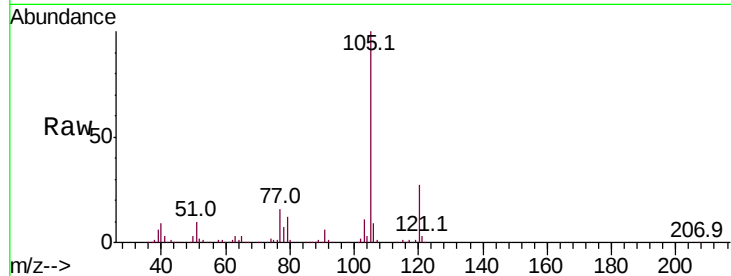
120 26.6 13.8 41.3

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

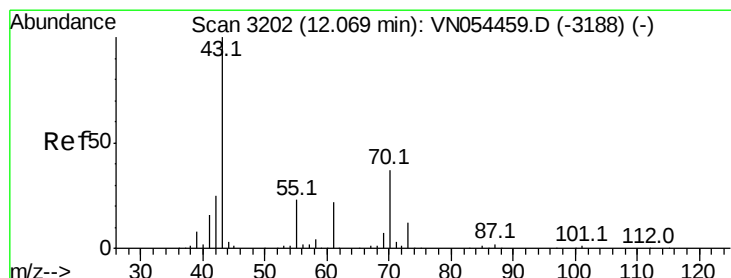
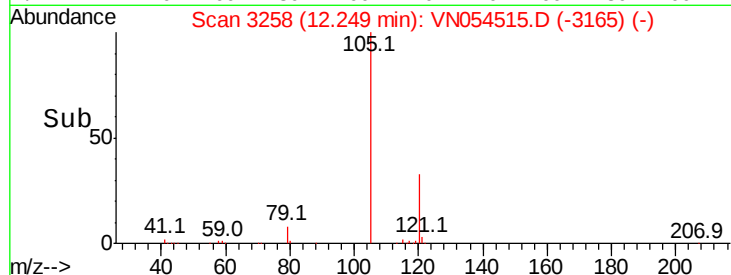
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 21.953 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Tgt Ion: 43 Resp: 153365

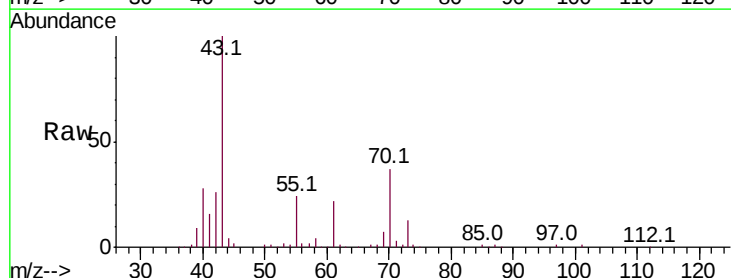
Ion Ratio Lower Upper

43 100

70 38.2 35.4 53.0

55 23.5 19.8 29.6

61 21.7 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

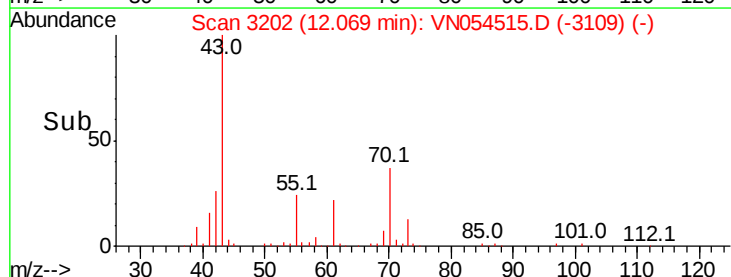
150000

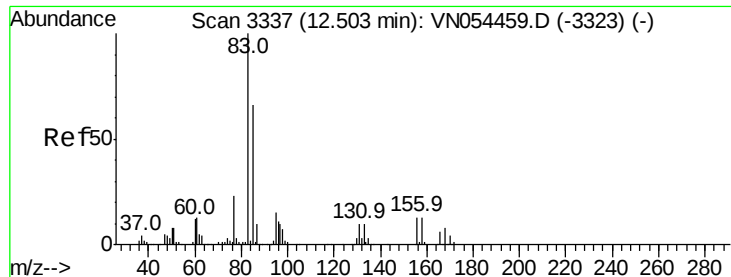
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.212 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

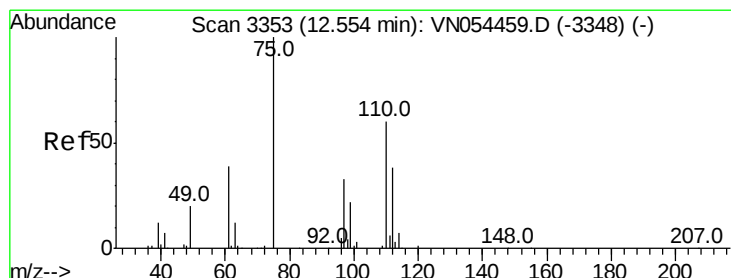
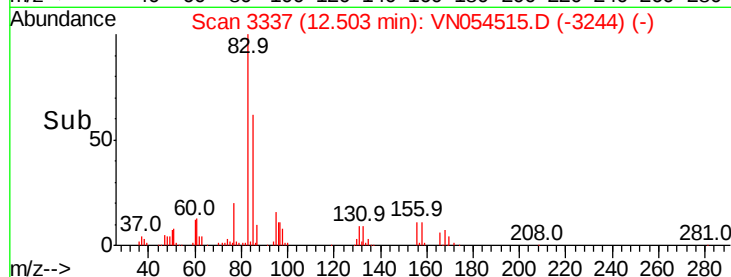
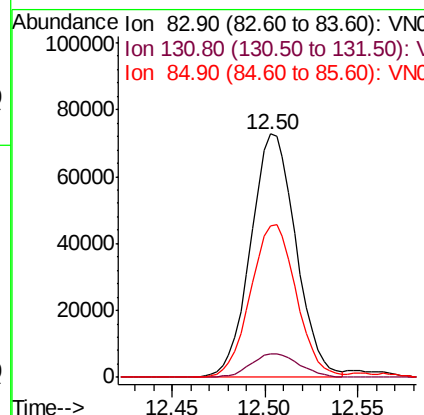
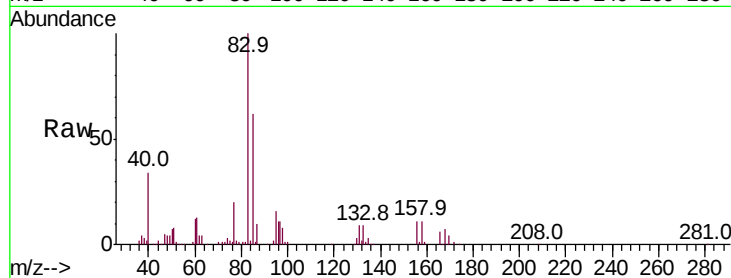
ClientSampleId :

VN0321WBS01

Tot Ion:	83	Resp:	123193
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.8	17.4
85	63.6	32.2	96.6

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 22.261 ug/l m

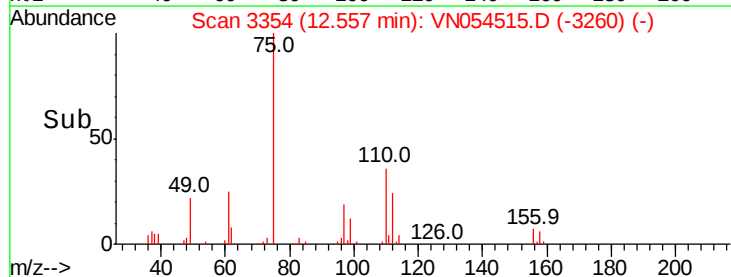
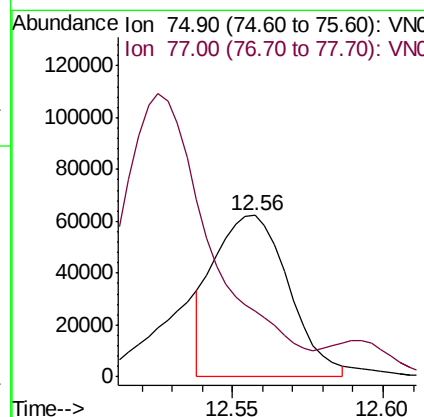
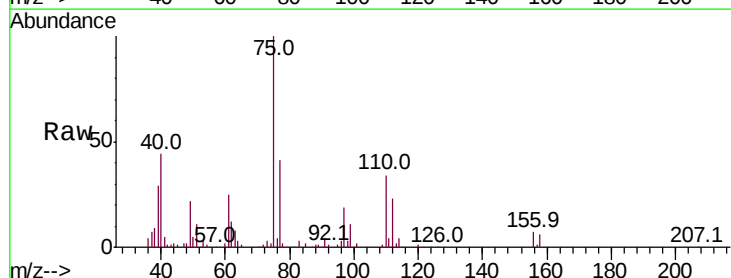
RT: 12.56 min Scan# 3354

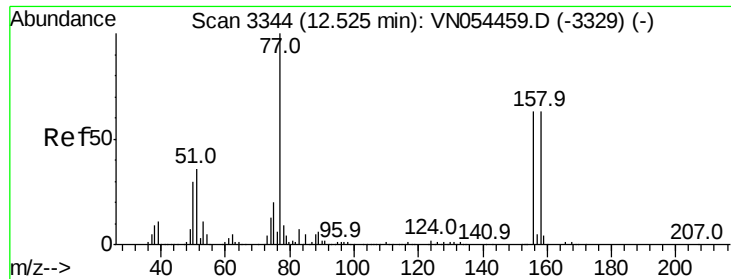
Delta R.T. 0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Tgt Ion:	75	Resp:	106510
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





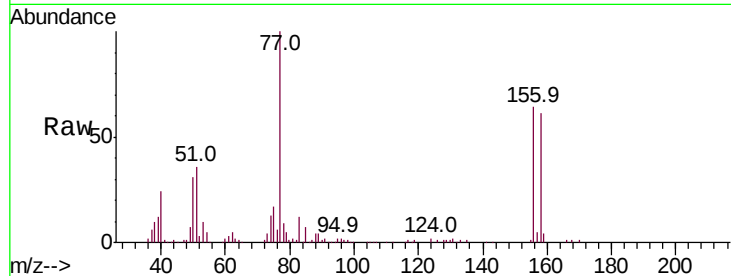
#77
Bromobenzene
Concen: 20.420 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

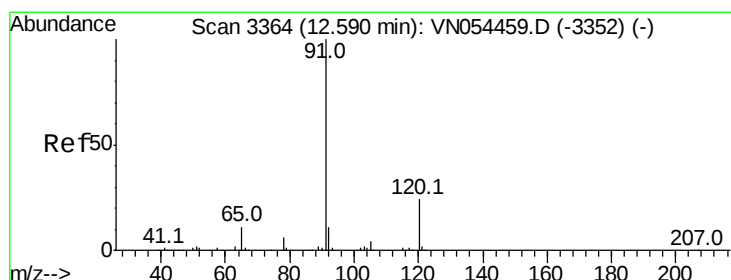
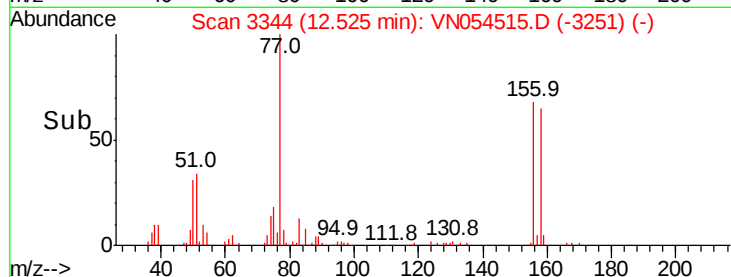
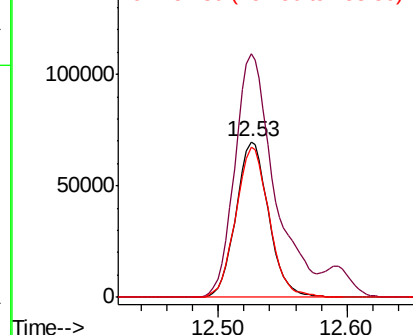
Tot Ion	Ratio	Lower	Upper
156	100		
77	188.6	81.5	244.4
158	98.4	49.0	147.2

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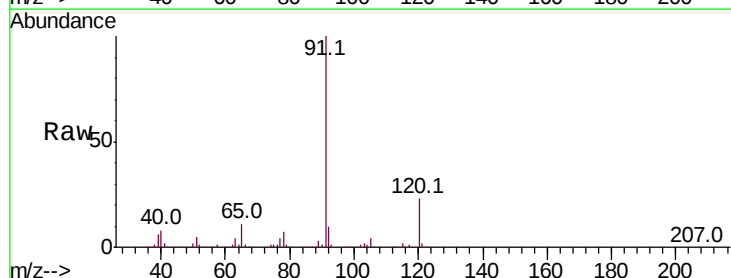


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VN
Ion 157.80 (157.50 to 158.50): V

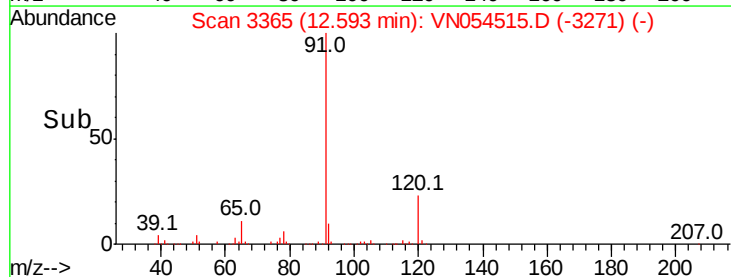
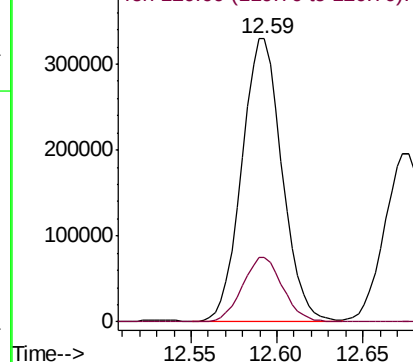


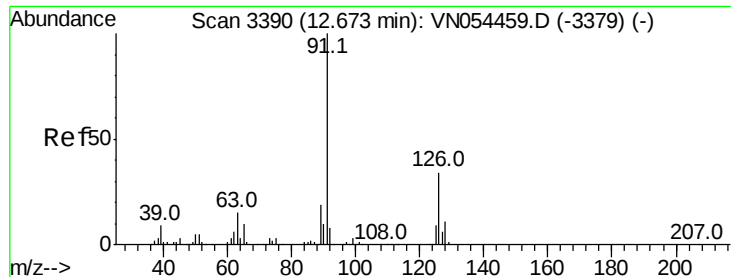
#78
n-propylbenzene
Concen: 20.318 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.0	12.3	36.9



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





#79

2-Chlorotoluene

Concen: 20.311 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS01

Tot Ion: 91 Resp: 333704

Ion Ratio Lower Upper

91 100

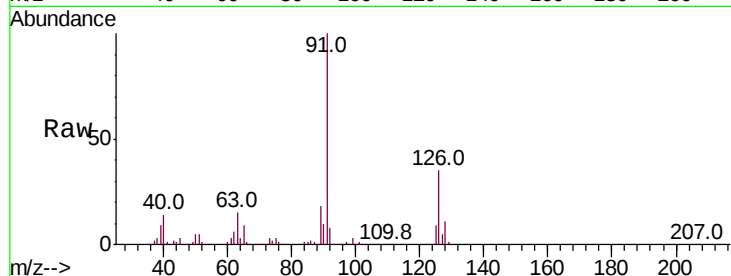
126 35.5 18.7 56.1

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Abundance Ion 91.00 (90.70 to 91.70): VN054459.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054459.D (-3379) (-)

12.67

200000

150000

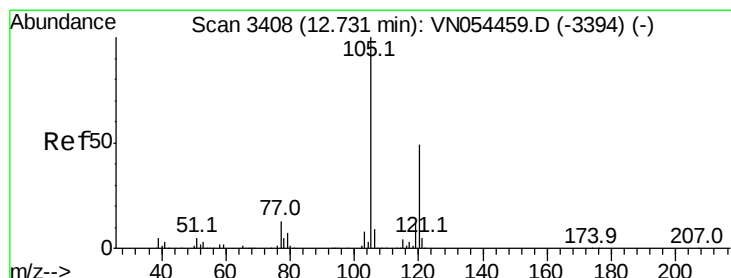
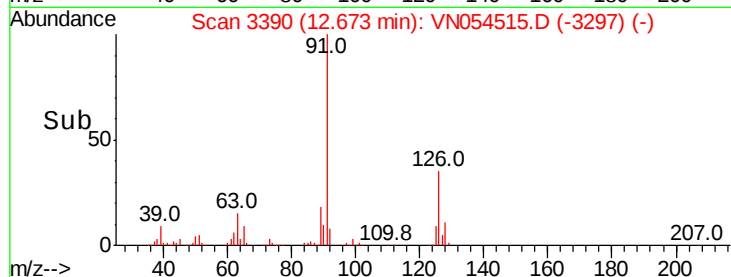
100000

50000

0

12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.437 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054515.D

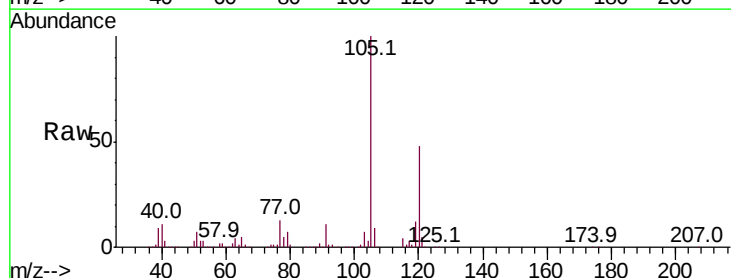
Acq: 21 Mar 2019 17:05

Tgt Ion:105 Resp: 406970

Ion Ratio Lower Upper

105 100

120 48.7 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054459.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054459.D (-3394) (-)

12.73

300000

250000

200000

150000

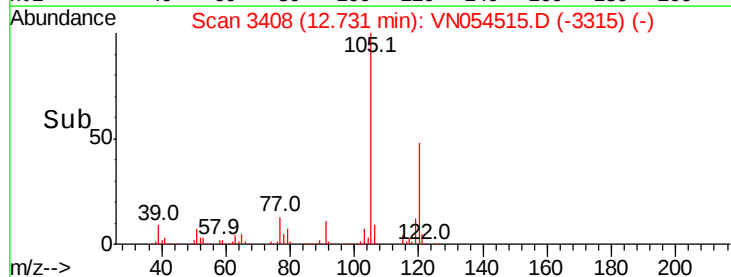
100000

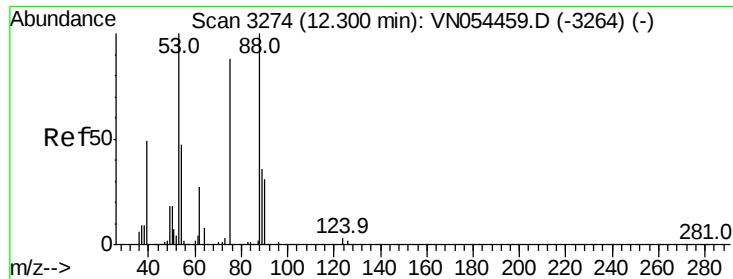
50000

0

12.70 12.80

Time-->





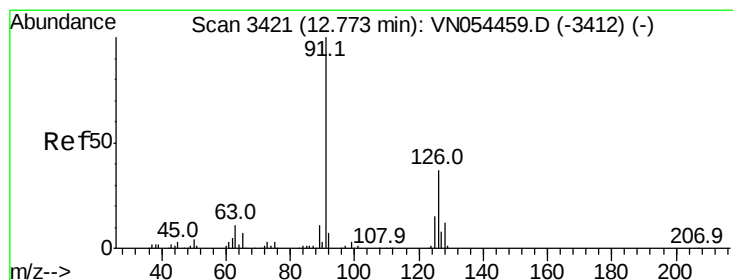
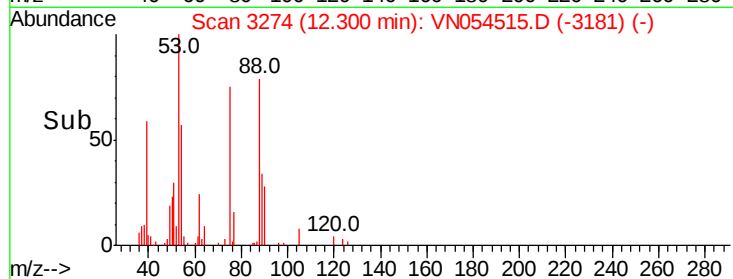
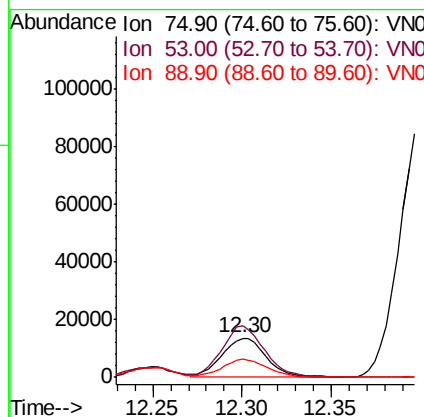
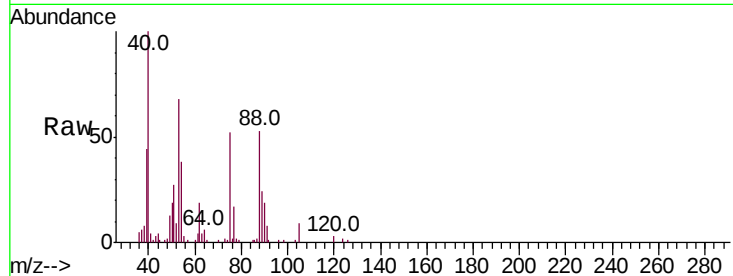
#81
trans-1,4-Dichloro-2-butene
Concen: 19.012 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	127.7	76.2	114.2#
89	46.0	39.2	58.8

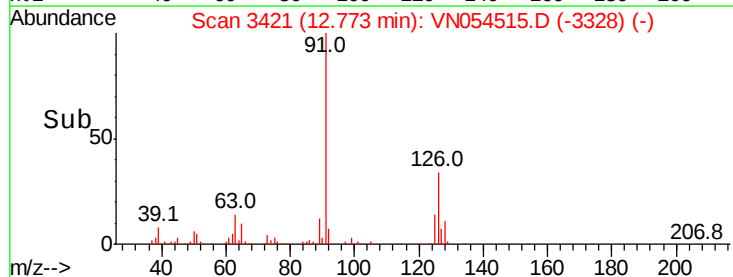
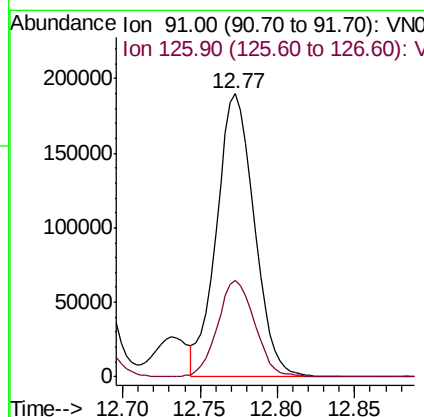
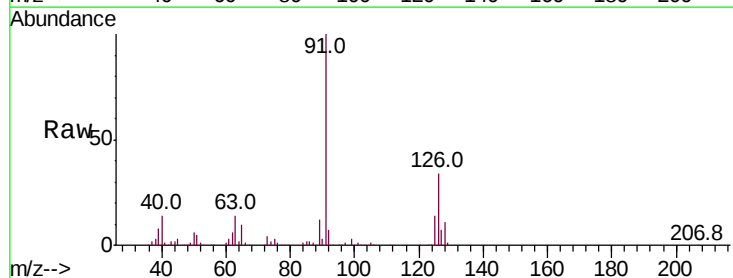
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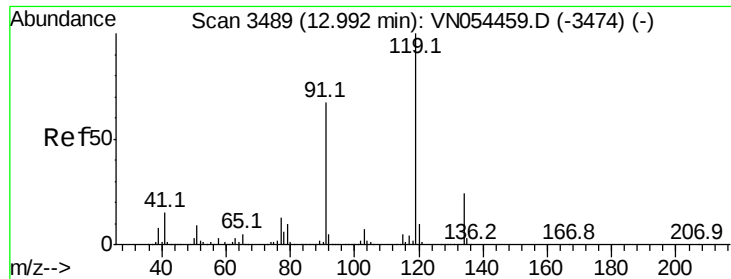
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#82
4-Chlorotoluene
Concen: 20.157 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.7	18.1	54.1





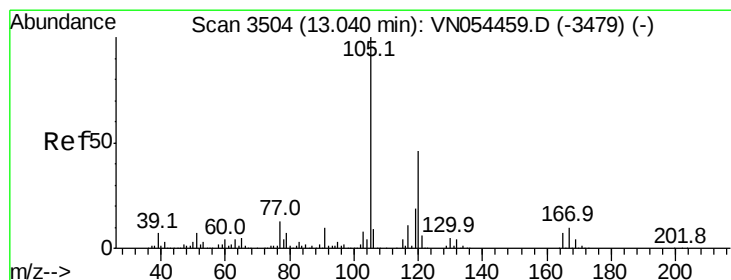
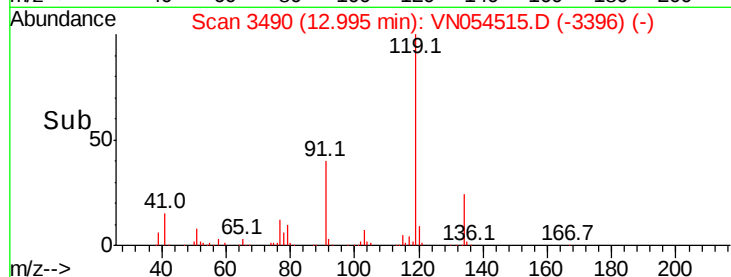
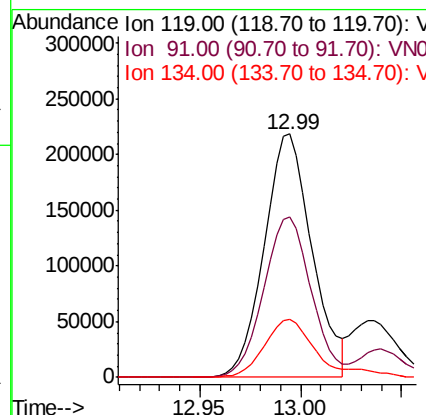
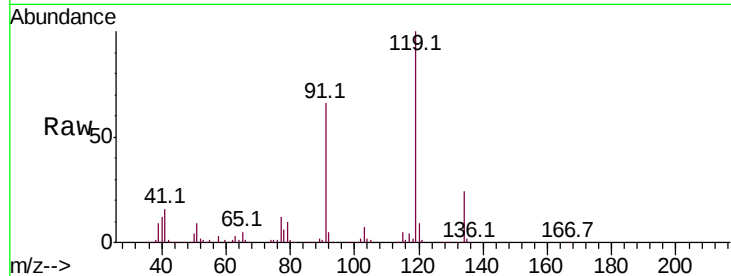
#83
tert-Butylbenzene
Concen: 20.753 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	359723		
91	66.0	30.9	92.8	
134	24.3	13.2	39.6	

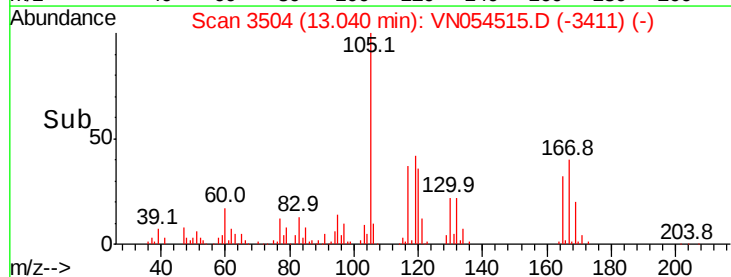
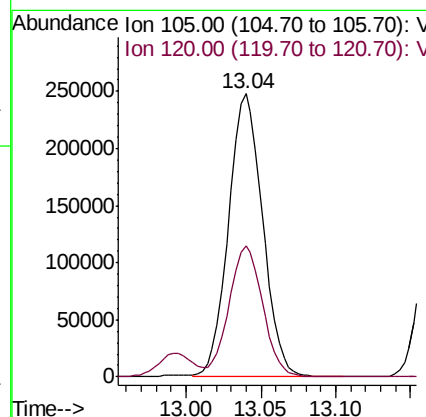
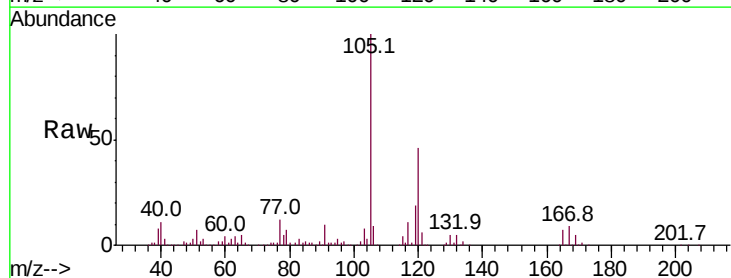
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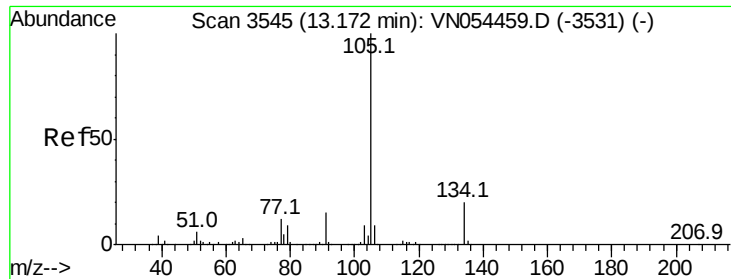
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#84
1,2,4-Trimethylbenzene
Concen: 20.160 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	393911		
120	45.9	23.4	70.3	





#85

sec-Butylbenzene

Concen: 20.290 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBS01

Tot Ion:105 Resp: 438411

Ion Ratio Lower Upper

105 100

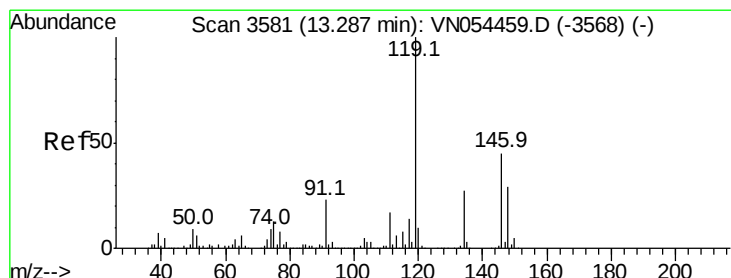
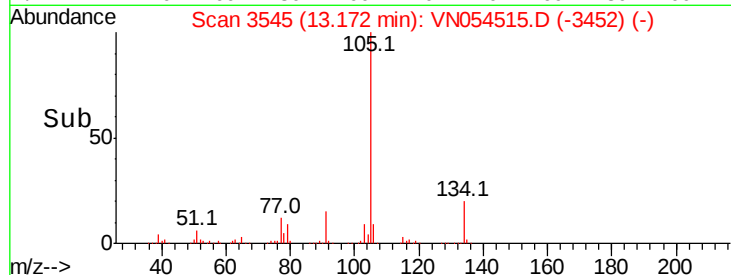
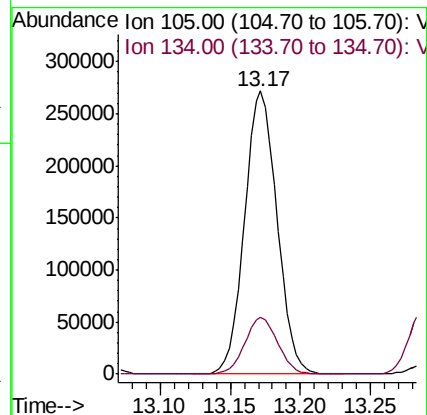
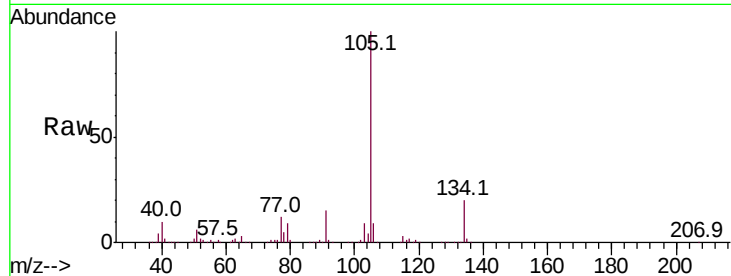
134 20.3 10.7 32.1

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#86

p-Isopropyltoluene

Concen: 20.153 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

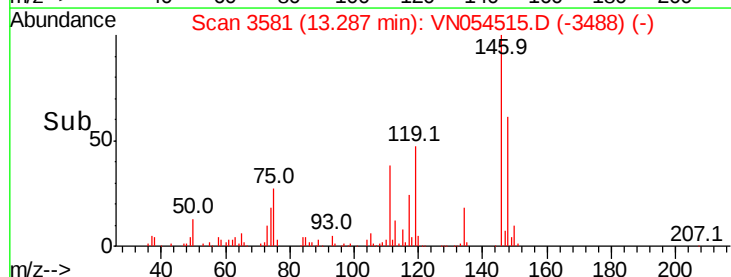
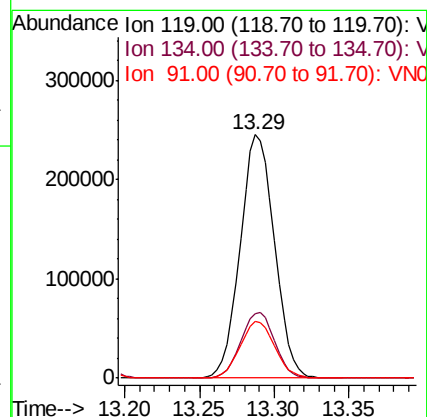
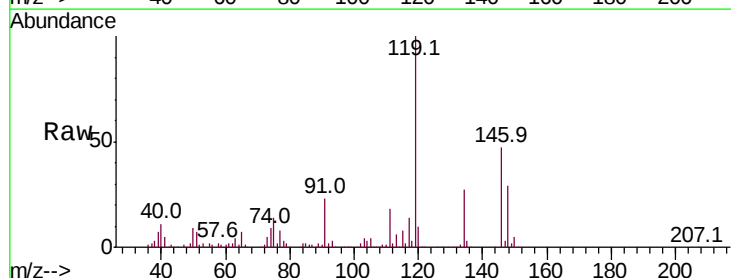
Tgt Ion:119 Resp: 389581

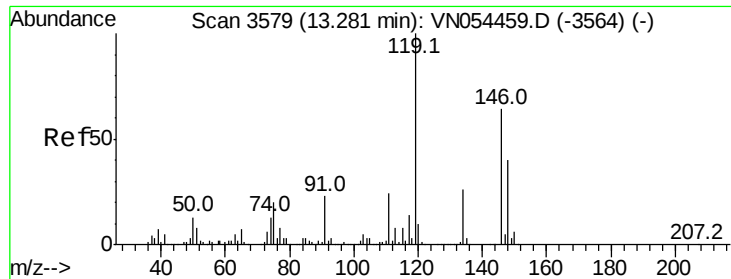
Ion Ratio Lower Upper

119 100

134 26.8 13.6 40.8

91 23.6 11.1 33.3





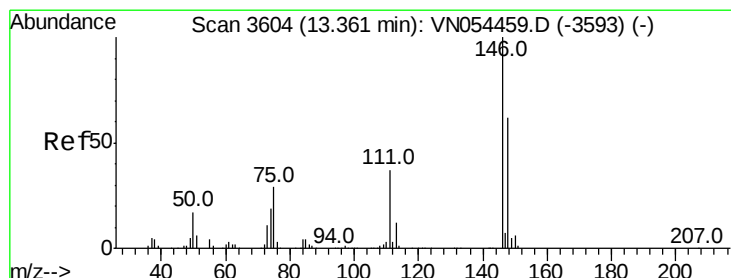
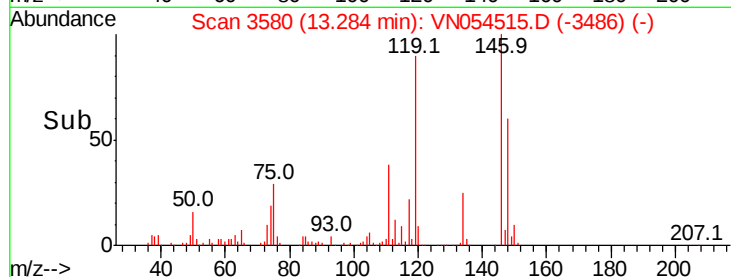
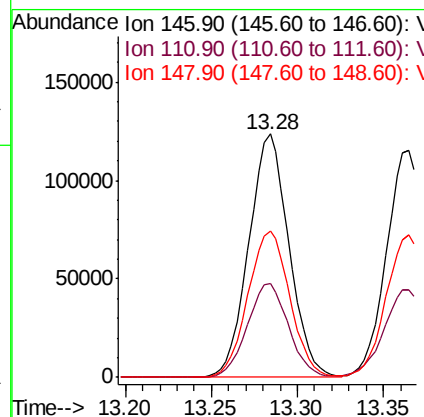
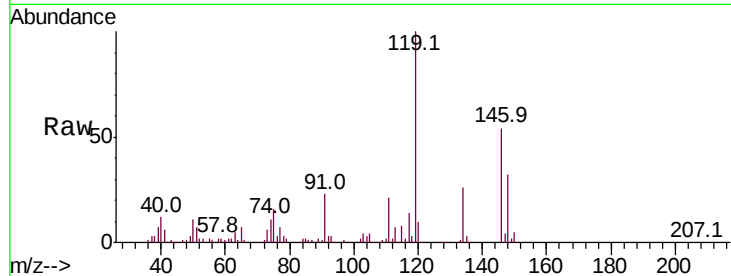
#87
 1,3-Dichlorobenzene
 Concen: 20.032 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	18.8	56.3
148	62.6	32.2	96.6

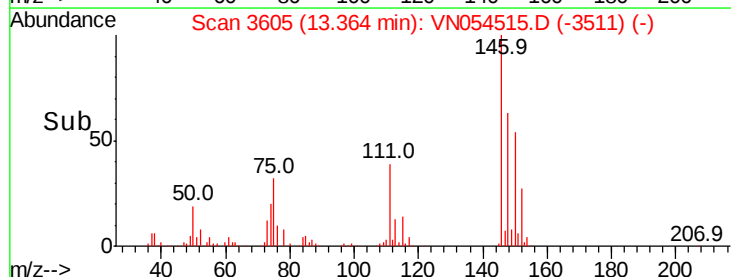
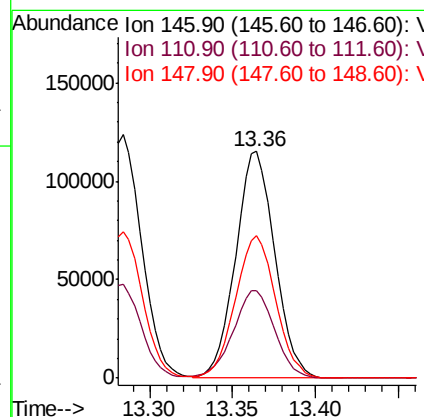
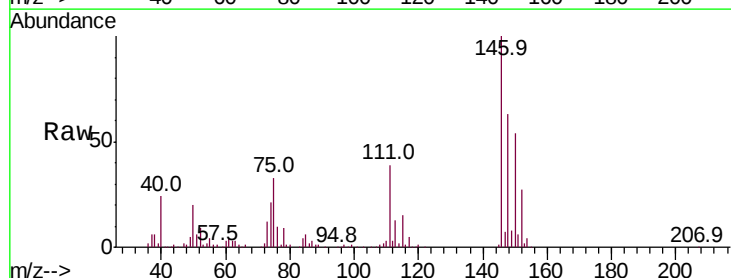
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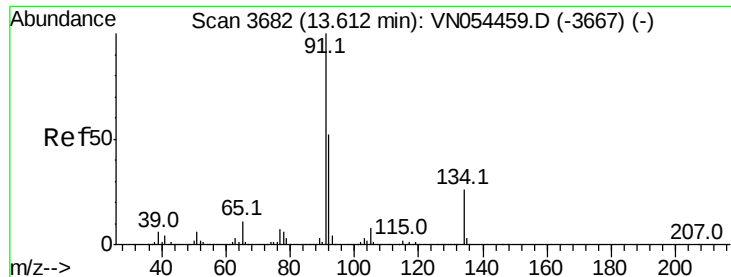
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#88
 1,4-Dichlorobenzene
 Concen: 19.500 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	18.1	54.1
148	64.5	32.0	96.0





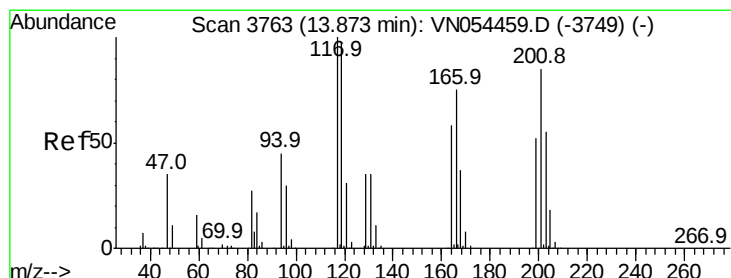
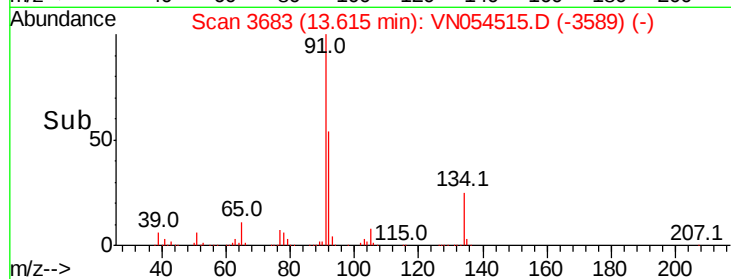
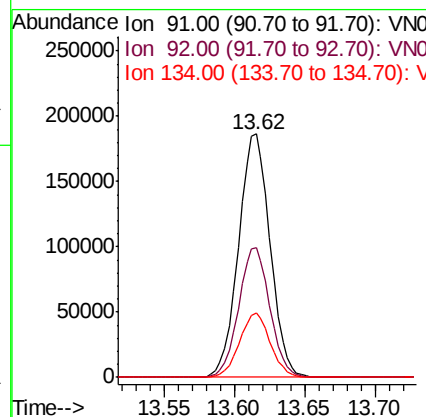
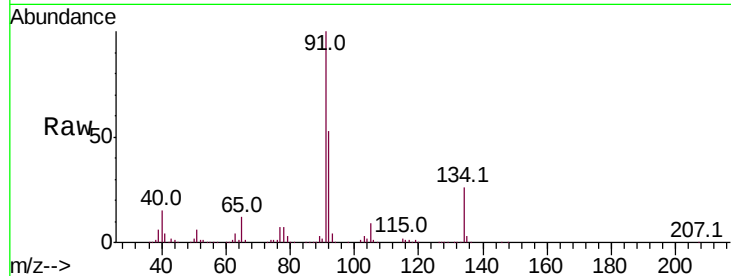
#89
n-Butylbenzene
Concen: 19.295 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampled :
VN0321WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.2	78.6
134	25.9	14.3	42.9

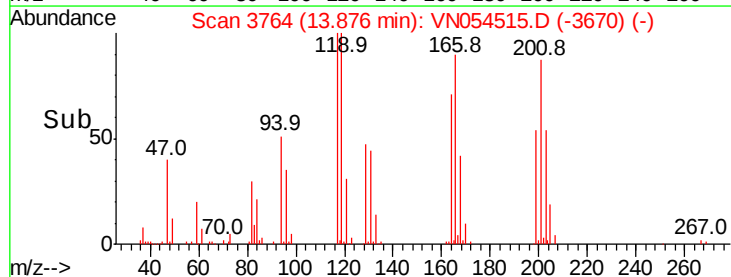
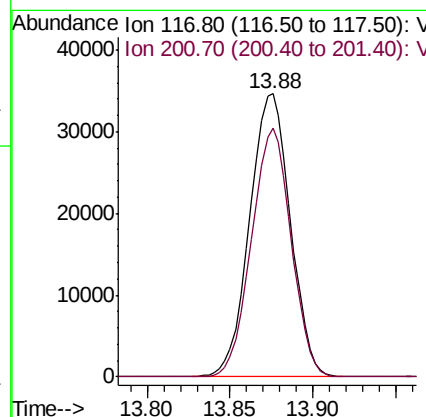
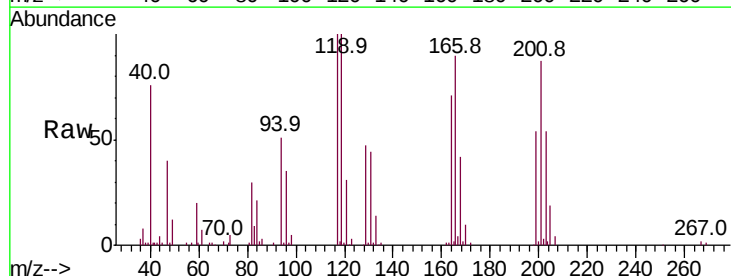
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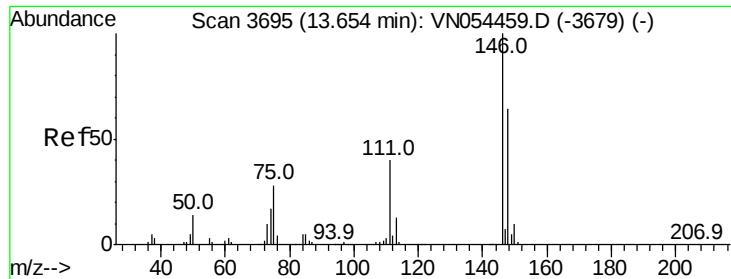
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#90
Hexachloroethane
Concen: 19.694 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.2	48.1	144.4





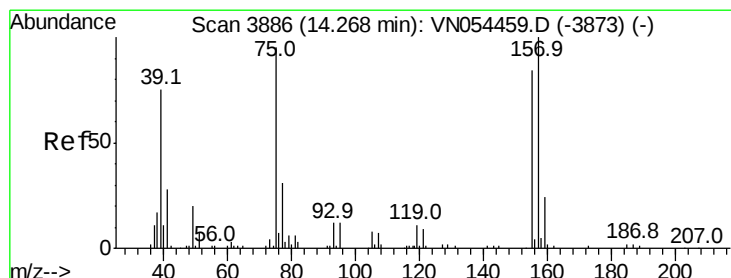
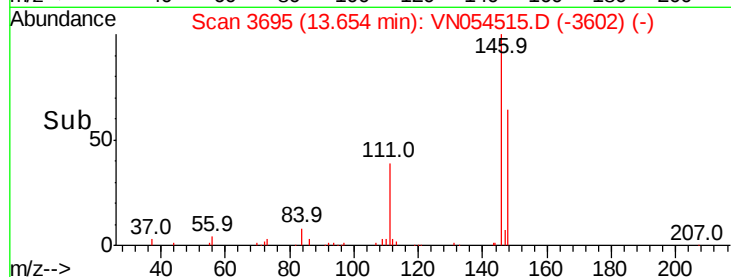
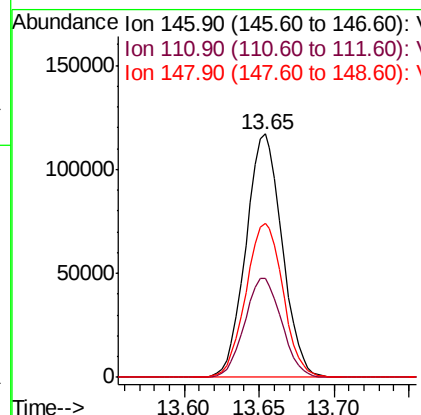
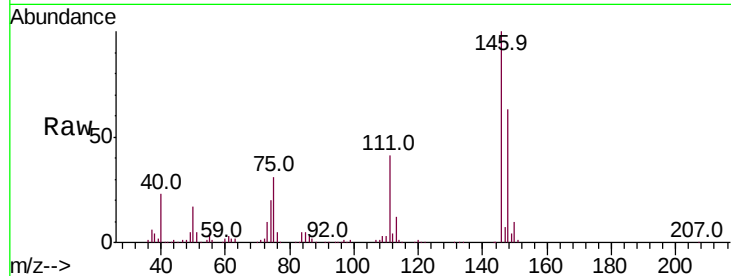
#91
 1,2-Dichlorobenzene
 Concen: 20.352 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	196852		
111	41.6	19.1	57.3	
148	64.9	32.4	97.0	

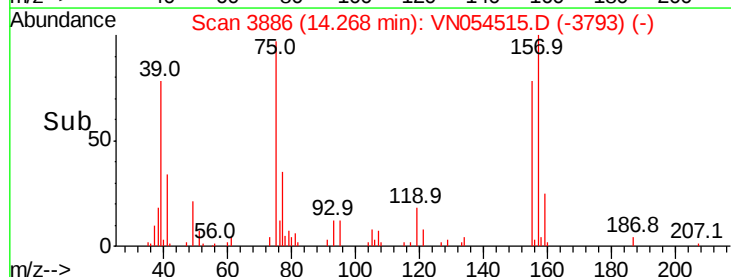
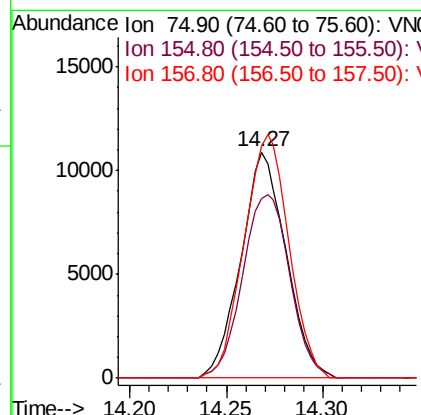
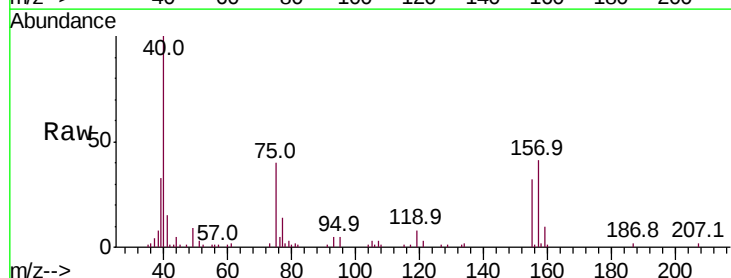
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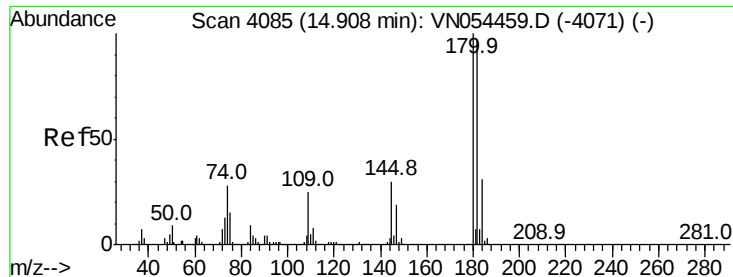
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 3/22/2019 4:15:32 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.757 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054515.D
 Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	17700		
155	84.8	50.1	150.3	
157	106.9	63.1	189.3	





#93

1,2,4-Trichlorobenzene

Concen: 19.009 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN054515.D

Acq: 21 Mar 2019 17:05

Instrument :

MSVOA_N

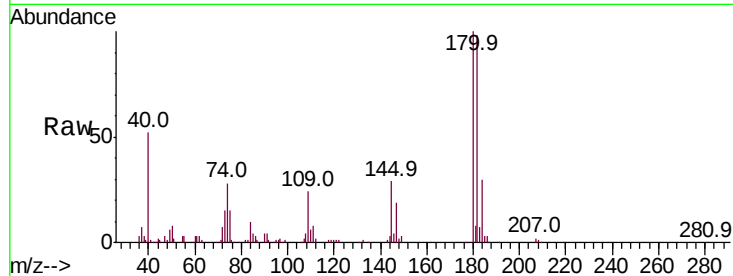
ClientSampleId :

VN0321WBS01

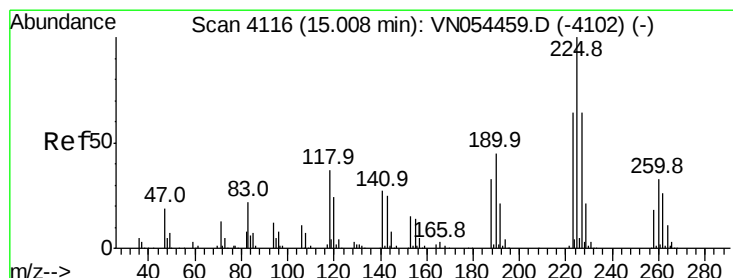
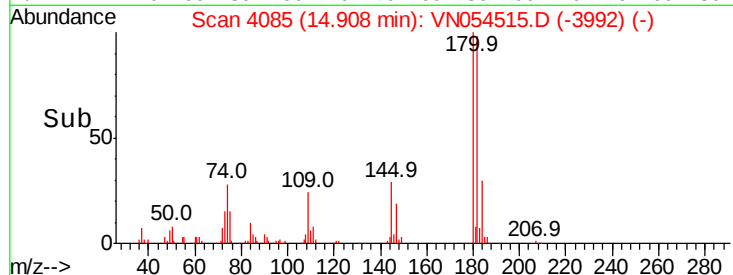
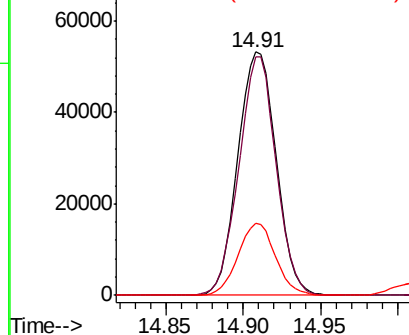
Tot Ion:	180	Resp:	91655
Ion Ratio	Lower	Upper	
180	100		
182	95.2	48.0	144.2
145	28.9	14.2	42.8

Manual Integrations
APPROVED

MMDadoda
3/22/2019 4:15:32 PM



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 19.277 ug/l

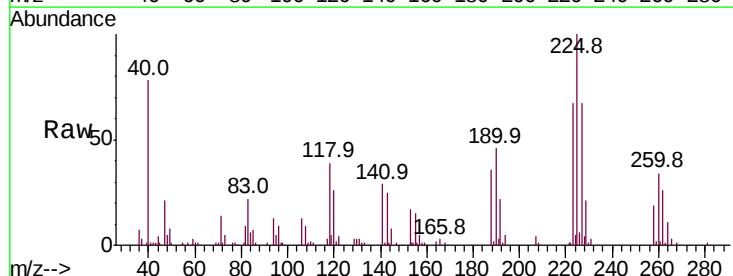
RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

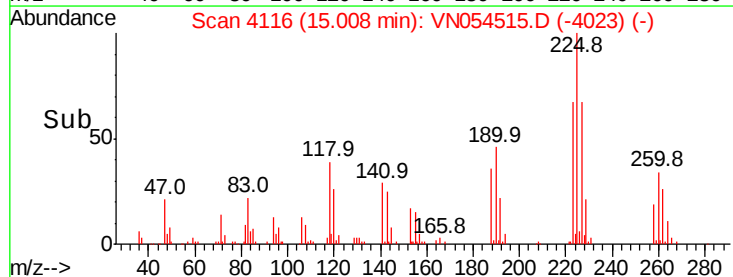
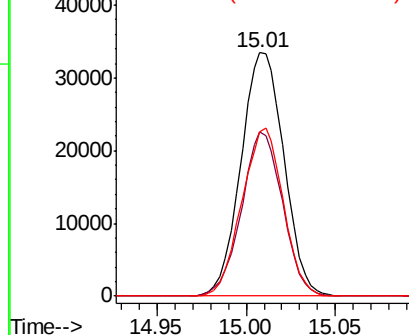
Lab File: VN054515.D

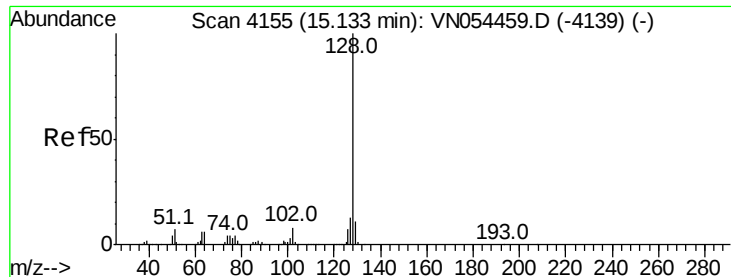
Acq: 21 Mar 2019 17:05

Tgt Ion:	225	Resp:	56349
Ion Ratio	Lower	Upper	
225	100		
223	64.4	31.1	93.5
227	66.2	31.9	95.9



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





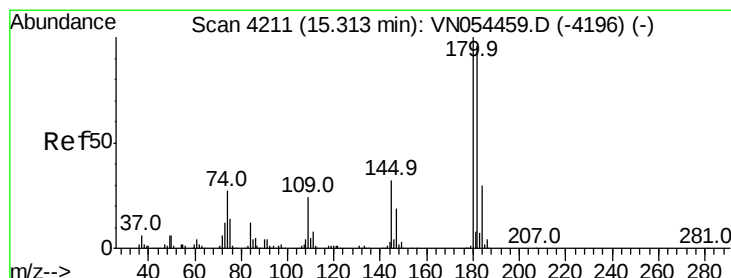
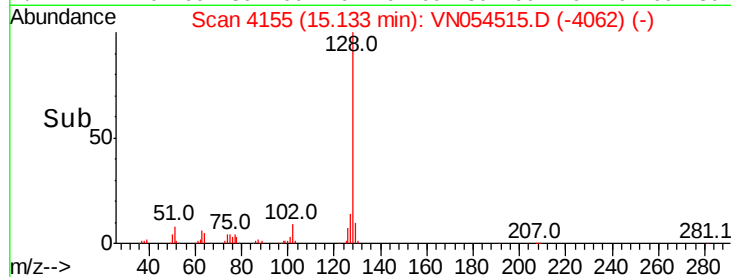
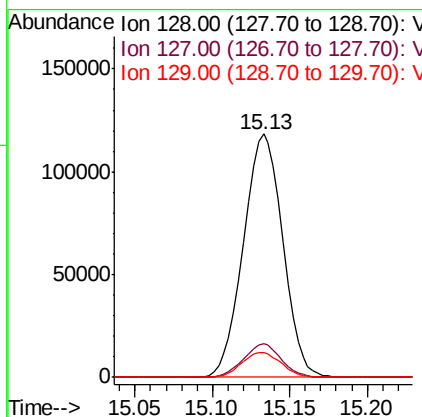
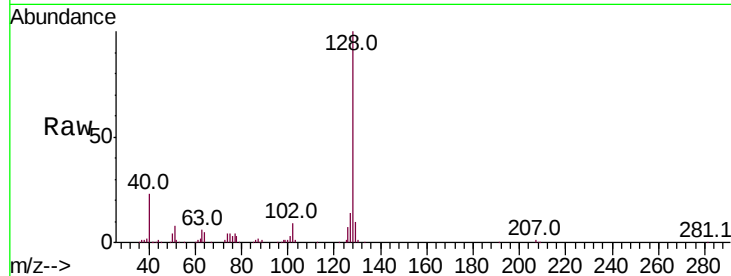
#95
Naphthalene
Concen: 19.499 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.1	15.1
129	10.3	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/22/2019 4:15:32 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.673 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN054515.D
Acq: 21 Mar 2019 17:05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.5	142.6
145	30.3	14.8	44.3

