

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112718\
 Data File : VN052504.D
 Acq On : 28 Nov 2018 3:25
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 41 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/28/2018 9:32:40 AM

Quant Time: Nov 28 07:41:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	173294	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	996037	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	871146	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	351377	29.76	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.20%
60) 4-Bromofluorobenzene	12.40	95	396270	29.75	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.17%
63) Toluene-d8	10.09	98	1215235	30.09	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.30%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	189190	19.17	ug/l	99
3) Chloromethane	2.06	50	258939	19.78	ug/l	100
4) Vinyl Chloride	2.19	62	267559	20.25	ug/l	100
5) Bromomethane	2.58	94	150310	19.95	ug/l	97
6) Chloroethane	2.71	64	159046	20.24	ug/l	97
7) Trichlorofluoromethane	3.02	101	322047	19.75	ug/l	100
8) Diethyl Ether	3.41	74	122538	20.35	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.76	101	198889	19.24	ug/l	97
10) 1,1-Dichloroethene	3.74	96	194698	20.03	ug/l	98
11) Methyl Iodide	3.96	142	266841	19.78	ug/l	98
12) Methyl Acetate	4.33	43	165276	20.02	ug/l	98
13) Acrolein	3.61	56	90310	93.11	ug/l	99
14) Acrylonitrile	4.99	53	352842	100.29	ug/l	98
15) Acetone	3.82	58	77319	84.86	ug/l	99
16) Carbon Disulfide	4.06	76	567520	18.45	ug/l	100
17) Allyl chloride	4.33	41	327788	19.34	ug/l	98
18) Methylene Chloride	4.55	84	226391	20.12	ug/l	96
19) trans-1,2-Dichloroethene	5.05	96	210395	20.12	ug/l	93
20) Diisopropyl ether	5.95	45	707658	19.87	ug/l	99
21) 1,1-Dichloroethane	5.85	63	405495	19.98	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	241599	20.16	ug/l	97
23) tert-Butyl Alcohol	4.78	59	57813	110.46	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	532193	20.88	ug/l	98
25) Chloroform	7.37	83	404909	20.68	ug/l	98
26) Cyclohexane	7.65	56	363267	18.97	ug/l #	99
29) 1,1-Dichloropropene	7.79	75	300100	19.73	ug/l	99
30) 2-Butanone	6.84	43	392294	96.38	ug/l	100
31) 2,2-Dichloropropane	6.83	77	231160	16.51	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	318674	20.13	ug/l	99
33) Carbon Tetrachloride	7.78	117	276816	19.99	ug/l	99
34) Benzene	8.04	78	926883	20.27	ug/l	98
35) Methacrylonitrile	7.18	41	109168	21.62	ug/l	89
36) 1,2-Dichloroethane	8.12	62	285070	20.57	ug/l	100
37) Trichloroethene	8.83	130	232756	20.07	ug/l	97
38) Methylcyclohexane	9.08	83	357429	18.98	ug/l	98
39) 1,2-Dichloropropane	9.12	63	243726	19.88	ug/l	99
40) Dibromomethane	9.21	93	139752	21.10	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	292886	20.01	ug/l	97
42) Vinyl Acetate	5.90	43	2158729	98.03	ug/l	99
43) Ethyl Acetate	6.93	43	177521	20.51	ug/l #	70
44) Isopropyl Acetate	8.16	43	316542	20.85	ug/l	96
45) 1,4-Dioxane	9.20	88	37120	447.03	ug/l	93
46) Methyl methacrylate	9.20	41	160324	20.34	ug/l	98
47) n-amyl Acetate	12.07	43	243072	19.31	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	269668	19.00	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	328774	19.02	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	196663	20.94	ug/l	100
51) Ethyl methacrylate	10.43	69	239442	20.30	ug/l	98
52) 1,3-Dichloropropane	10.71	76	340034	20.34	ug/l	100
53) Dibromochloromethane	10.90	129	206563	19.98	ug/l	98
54) 1,2-Dibromoethane	11.01	107	192273	20.95	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	641840	92.98	ug/l	99
56) Bromoform	12.13	173	134838	19.95	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	892724	105.70	ug/l	99
59) 2-Hexanone	10.75	43	572783	99.28	ug/l	99
61) Tetrachloroethene	10.63	164	231741	21.60	ug/l	97
62) Toluene	10.16	91	980629	20.42	ug/l	99
64) Chlorobenzene	11.44	112	596213	20.34	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	208224	20.47	ug/l	98
66) Ethyl Benzene	11.51	91	1044305	20.18	ug/l	99
67) m/p-Xylenes	11.62	106	787738	40.85	ug/l	100
68) o-Xylene	11.95	106	387101	20.68	ug/l	100
69) Styrene	11.96	104	612608	20.28	ug/l	100
70) Isopropylbenzene	12.25	105	1021109	20.51	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	227922	21.04	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	205558m	22.11	ug/l	
73) Bromobenzene	12.53	156	247605	20.56	ug/l	97
74) n-propylbenzene	12.59	91	1144012	19.72	ug/l	99
75) 2-Chlorotoluene	12.68	91	683486	20.29	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	824446	20.50	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	51274	17.46	ug/l	94
78) 4-Chlorotoluene	12.77	91	682036	20.28	ug/l	99
79) tert-butylbenzene	12.99	119	728835	20.81	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	824447	20.48	ug/l	100
81) sec-Butylbenzene	13.17	105	978282	20.05	ug/l	100
82) p-Isopropyltoluene	13.29	119	830155	19.98	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	423693	20.00	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	409451	20.01	ug/l	99
85) n-Butylbenzene	13.62	91	652992	18.30	ug/l	99
86) Hexachloroethane	13.88	117	136762	19.43	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	417768	20.73	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	30865	20.34	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	187784	18.91	ug/l	99
90) Hexachlorobutadiene	15.01	225	129674	19.90	ug/l	99
91) Naphthalene	15.13	128	385200	19.21	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	178527	19.51	ug/l	99

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Manual Integrations
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 27 00:48:33 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

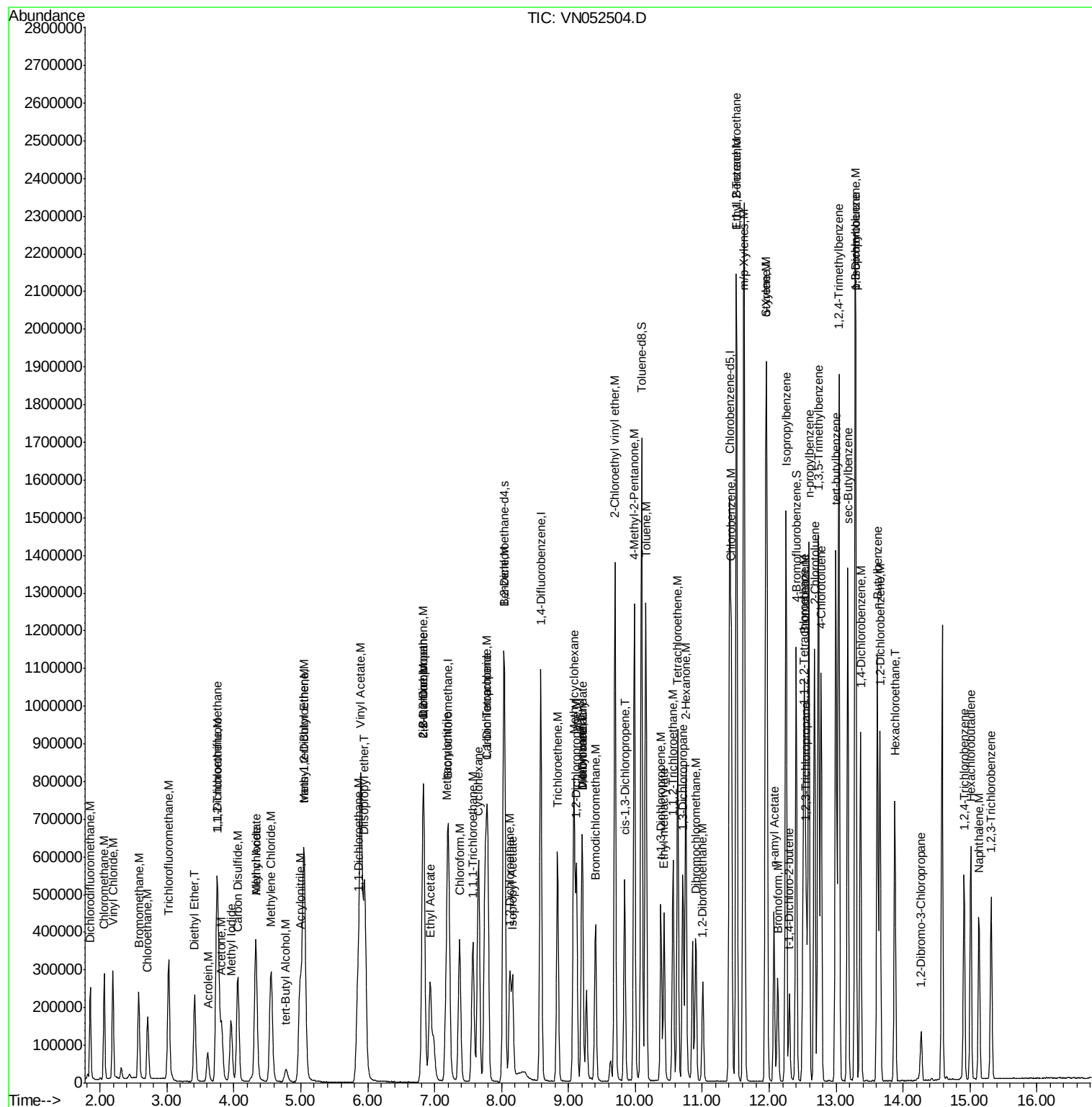
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 Data File : VN052504.D
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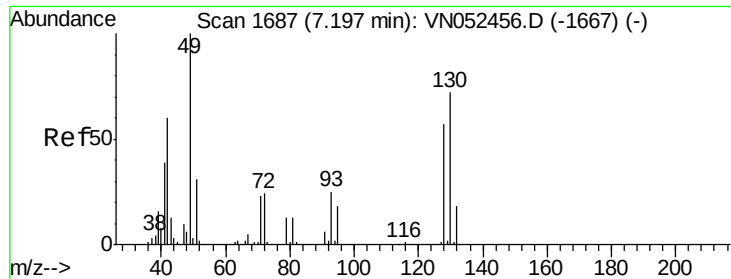
Instrument :
 MSVOA_N
 Client Sample Id :
 VSTDCCC020EC

Manual Integrations
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#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

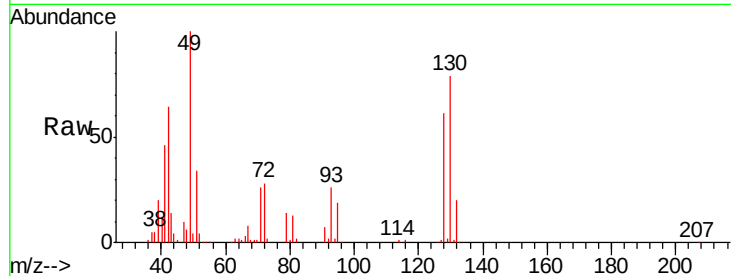
ClientSampleId :

VSTDCCC020EC

Tgt Ion:	128	Resp:	173294
Ion Ratio	Lower	Upper	
128	100		
49	164.9	0.0	431.8
130	128.5	0.0	317.0

Manual Integrations
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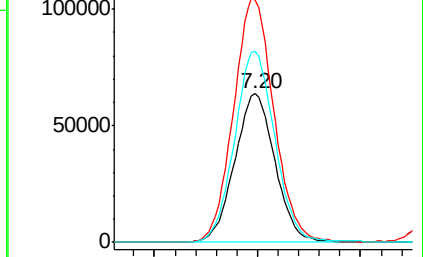
MMDadoda
11/28/2018 9:32:40 AM



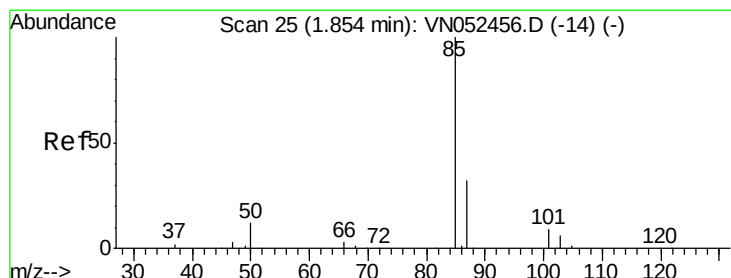
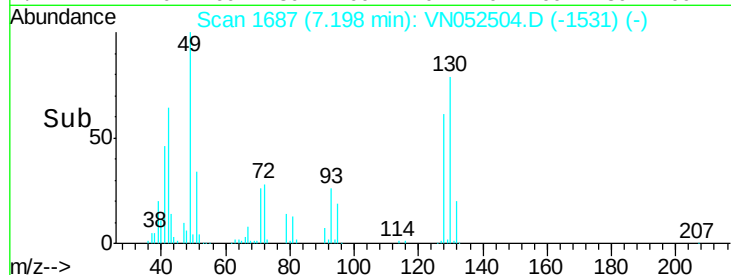
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 19.17 ug/l

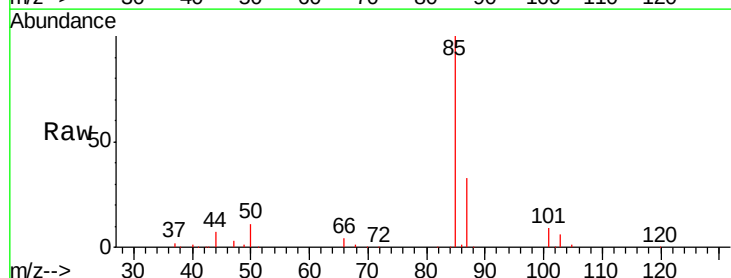
RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052504.D

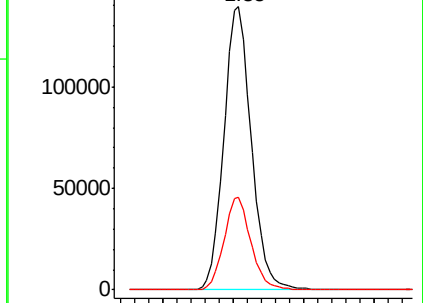
Acq: 28 Nov 2018 3:25

Tgt Ion:	85	Resp:	189190
Ion Ratio	Lower	Upper	
85	100		
87	32.5	16.1	48.3

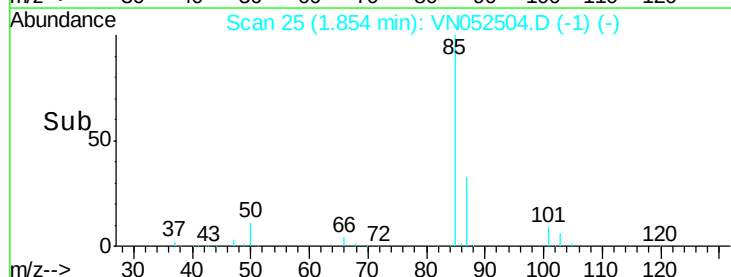


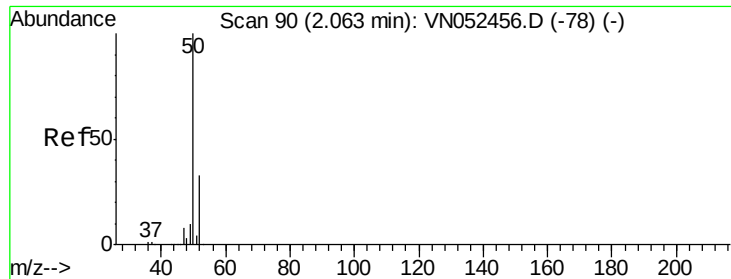
Abundance Ion 85.00 (84.70 to 85.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



Time-->





#3

Chloromethane

Concen: 19.78 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 50 Resp: 258939

Ion Ratio Lower Upper

50 100

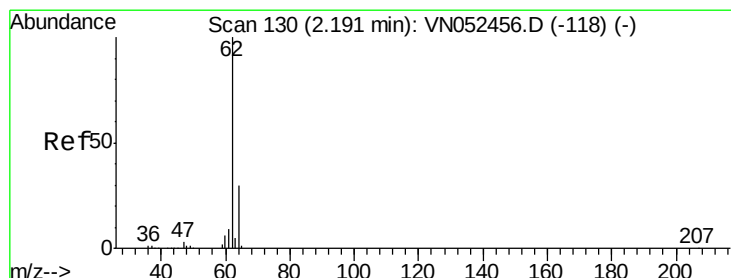
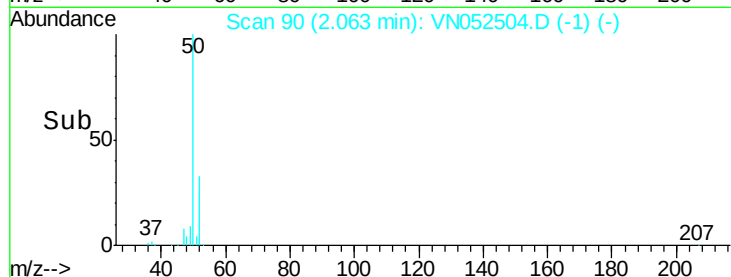
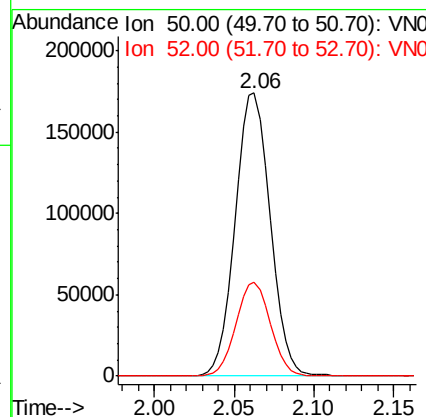
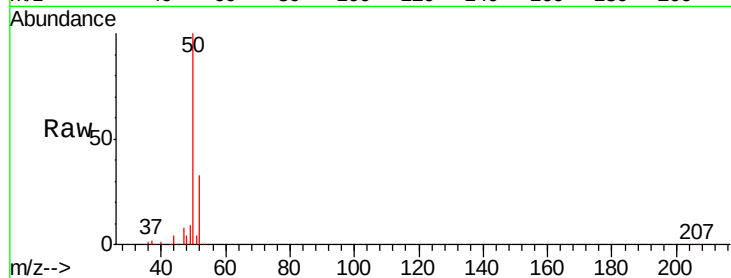
52 33.1 26.5 39.7

Manual Integrations

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11/28/2018 9:32:40 AM



#4

Vinyl Chloride

Concen: 20.25 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052504.D

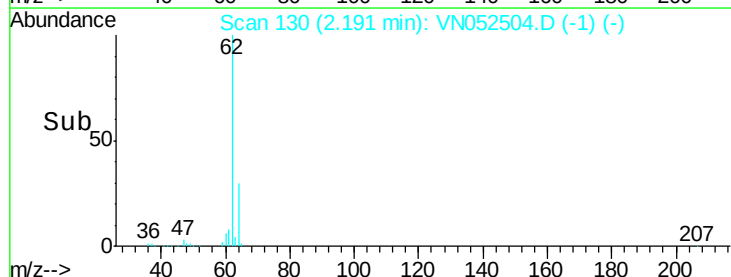
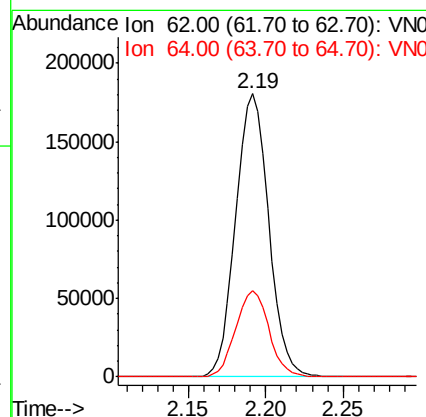
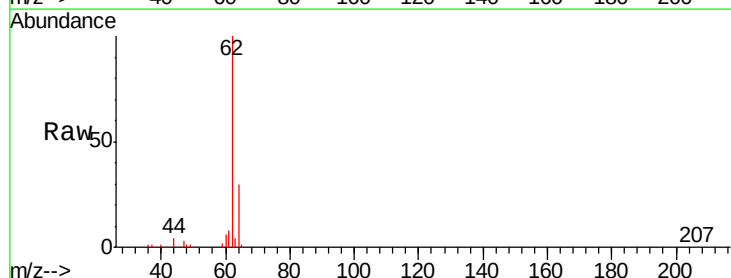
Acq: 28 Nov 2018 3:25

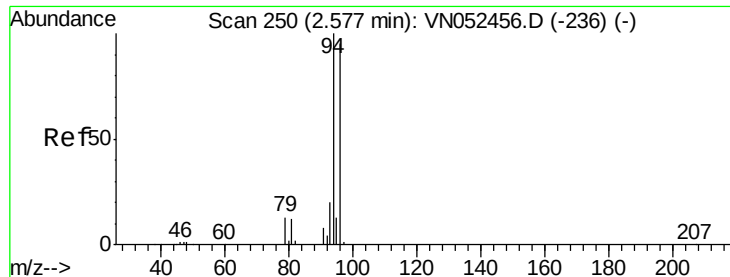
Tgt Ion: 62 Resp: 267559

Ion Ratio Lower Upper

62 100

64 30.3 24.2 36.4





#5

Bromomethane

Concen: 19.95 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

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ClientSampleId :

VSTDCCC020EC

Tgt Ion: 94 Resp: 150310

Ion Ratio Lower Upper

94 100

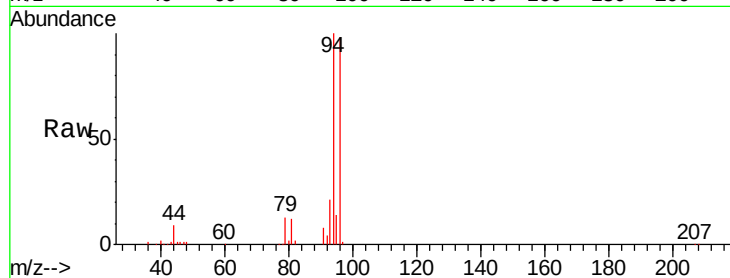
96 98.1 76.2 114.2

Manual Integrations

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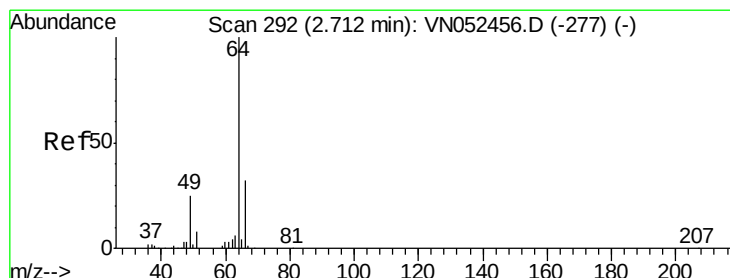
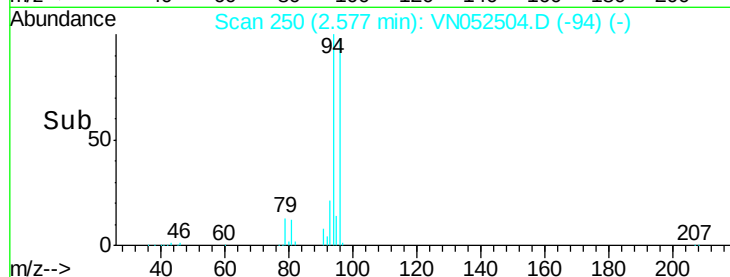
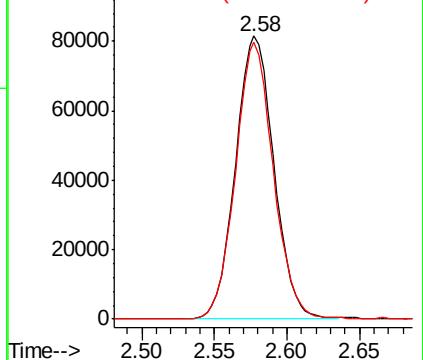
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 20.24 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052504.D

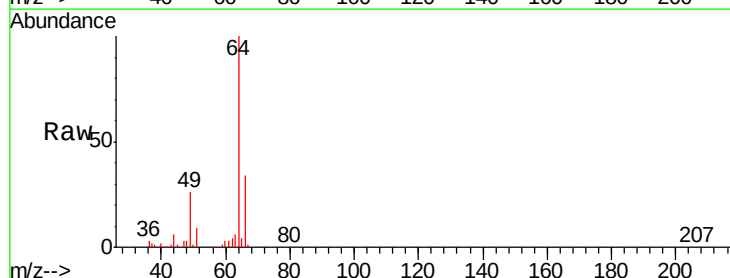
Acq: 28 Nov 2018 3:25

Tgt Ion: 64 Resp: 159046

Ion Ratio Lower Upper

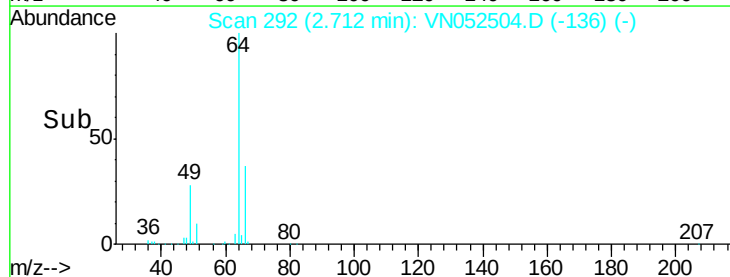
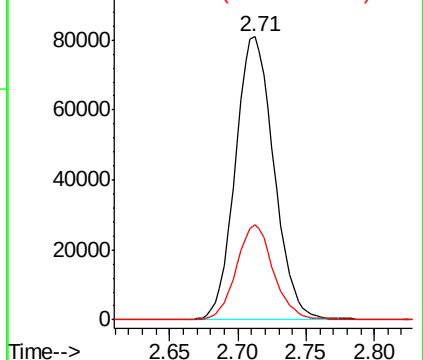
64 100

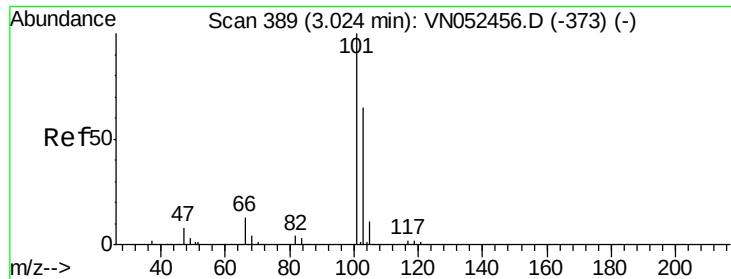
66 33.7 25.6 38.4



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

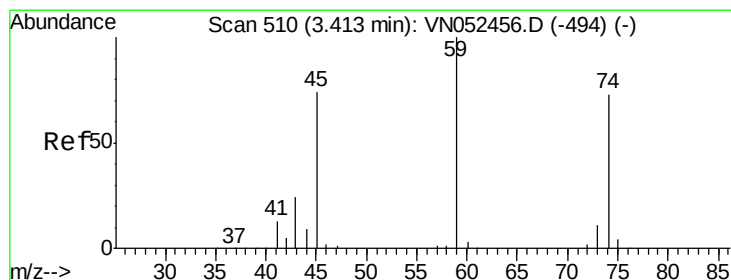
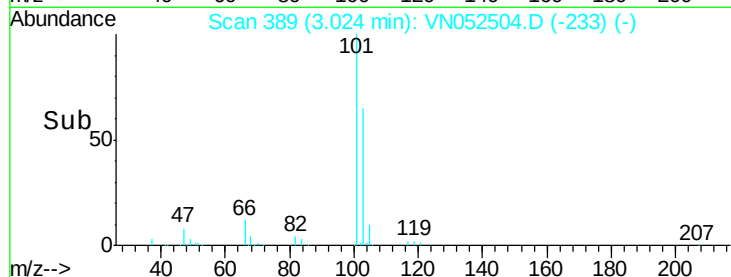
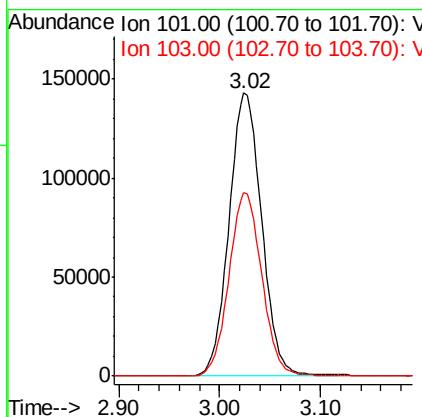
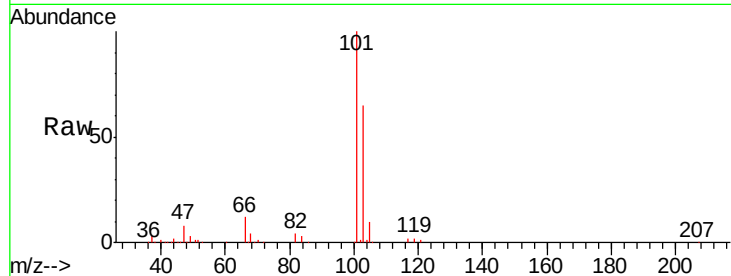
Trichlorofluoromethane
Concen: 19.75 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Instrument :
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ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.1	78.1

Manual Integrations
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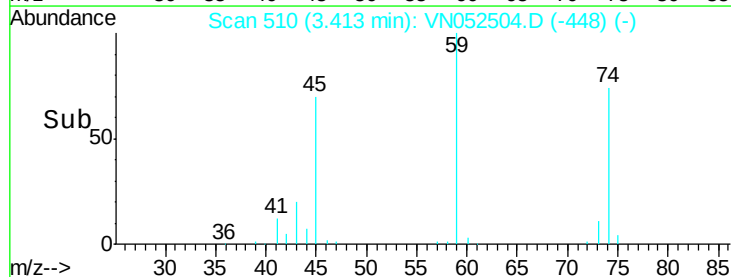
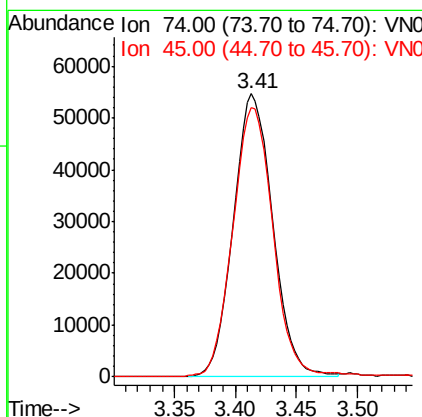
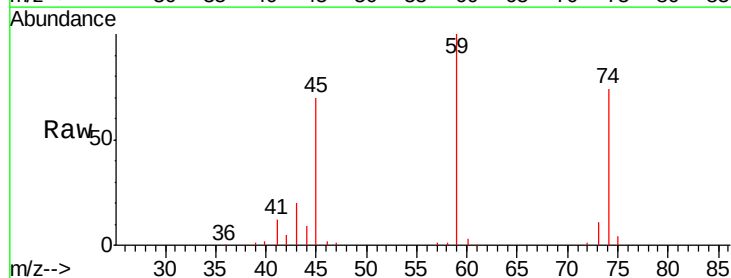
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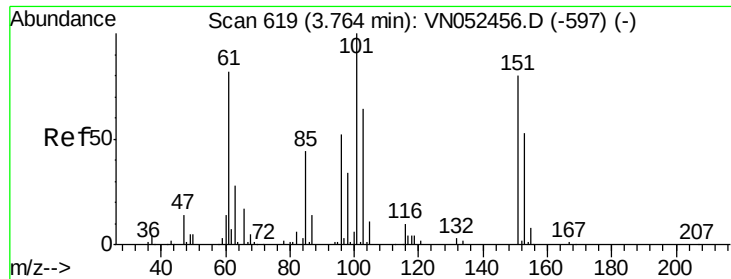


#8

Diethyl Ether
Concen: 20.35 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.6	20.6	185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.24 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

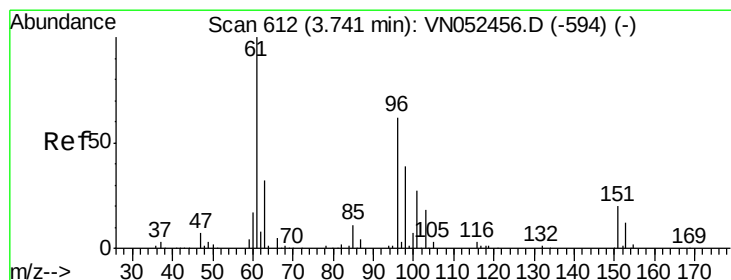
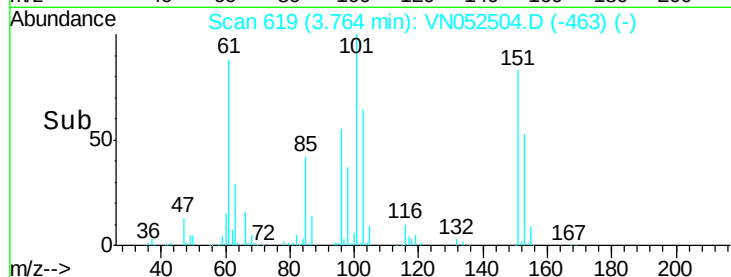
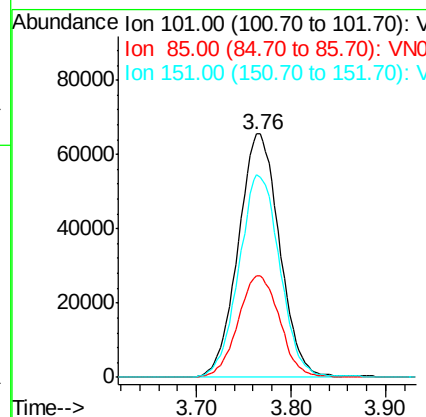
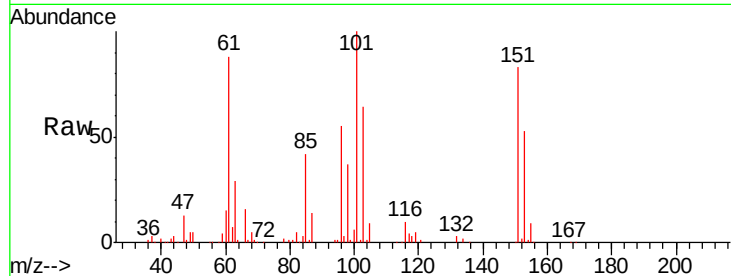
ClientSampleId :

VSTDCCC020EC

Tgt Ion:	101	Resp:	198889
Ion Ratio	Lower	Upper	
101	100		
85	41.9	0.0	82.6
151	82.3	0.0	158.4

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#10

1,1-Dichloroethene

Concen: 20.03 ug/l

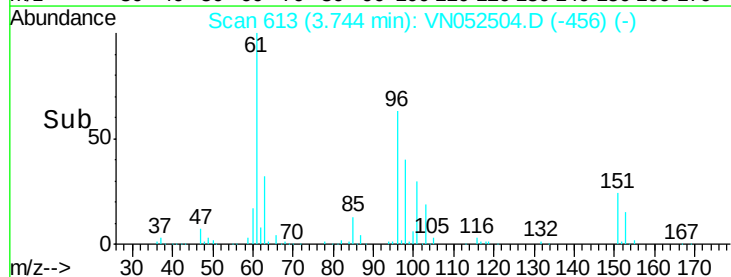
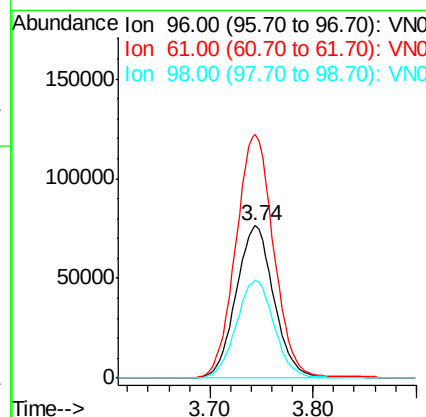
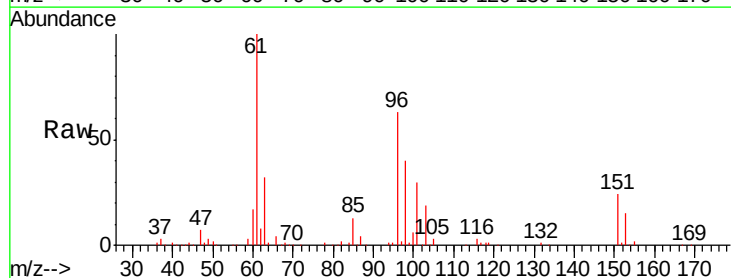
RT: 3.74 min Scan# 613

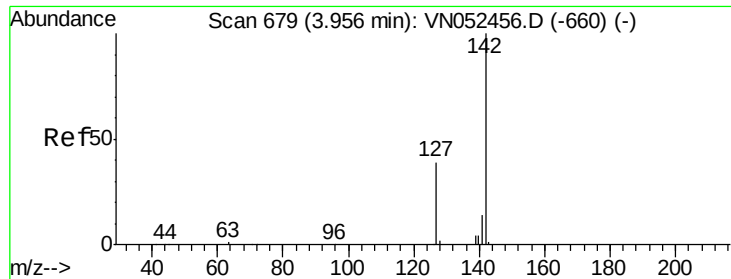
Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Tgt Ion:	96	Resp:	194698
Ion Ratio	Lower	Upper	
96	100		
61	159.2	129.4	194.2
98	63.6	50.4	75.6





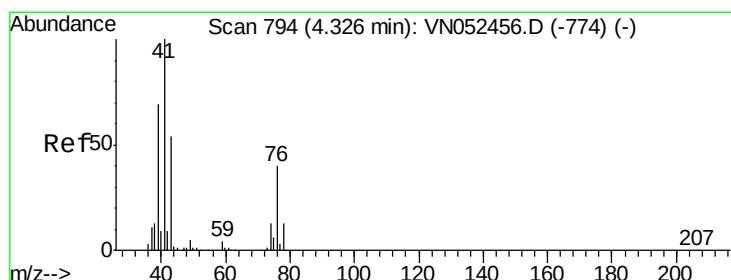
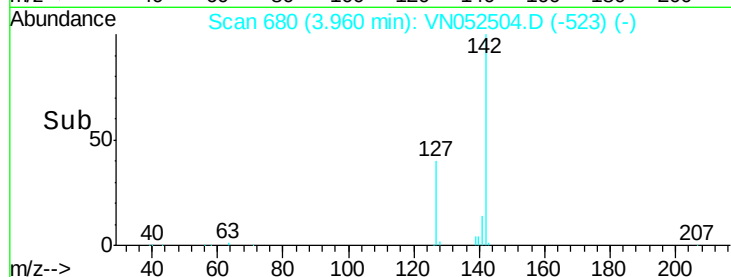
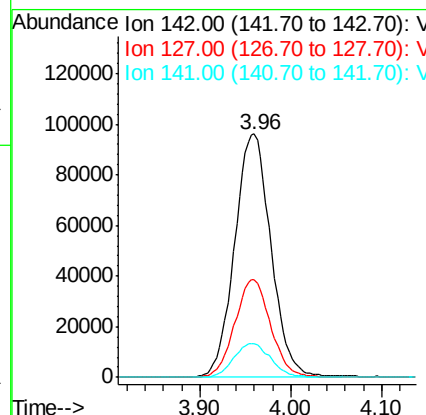
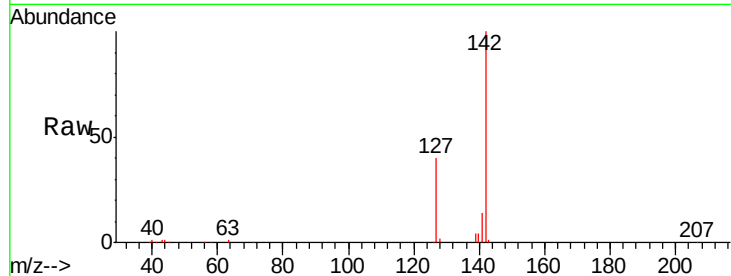
#11
Methyl Iodide
Concen: 19.78 ug/l
RT: 3.96 min Scan# 680
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
142	100		
127	40.2	19.4	58.1
141	13.8	7.2	21.6

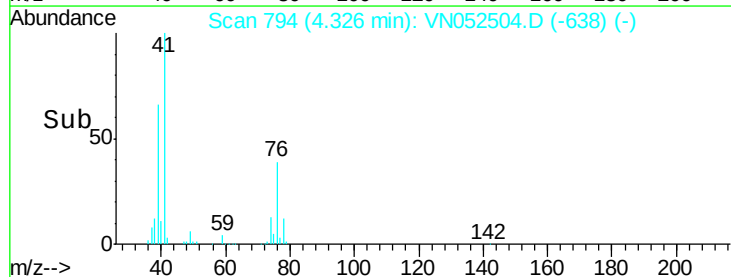
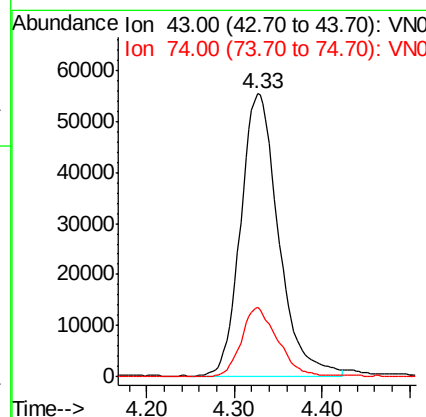
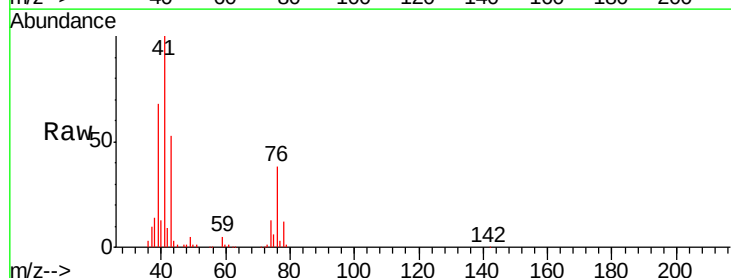
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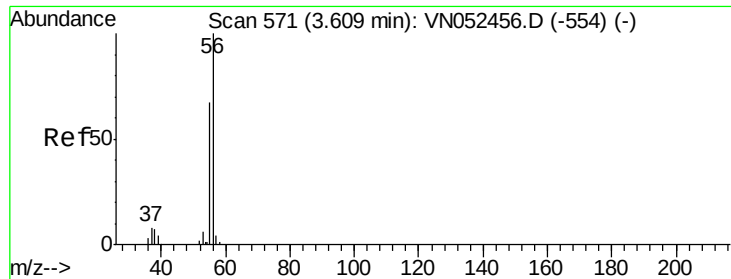
MMDadoda
11/28/2018 9:32:40 AM



#12
Methyl Acetate
Concen: 20.02 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.7	18.9	28.3





#13

Acrolein

Concen: 93.11 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 56 Resp: 90310

Ion Ratio Lower Upper

56 100

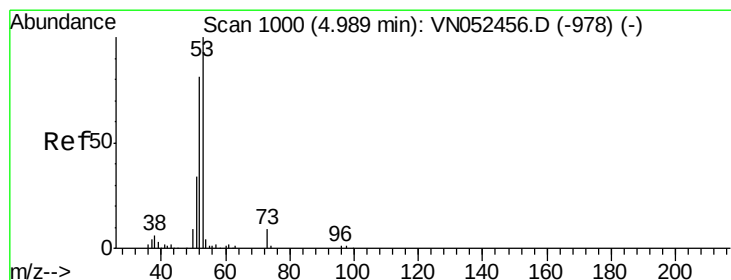
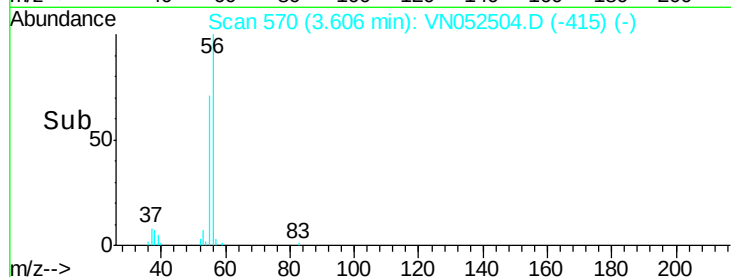
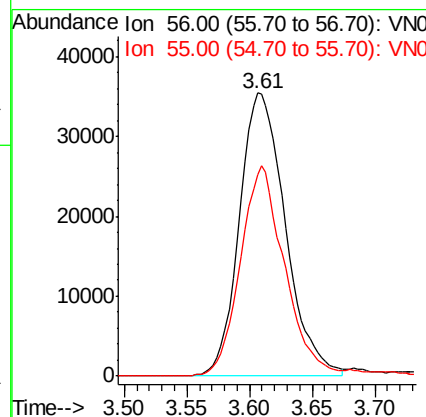
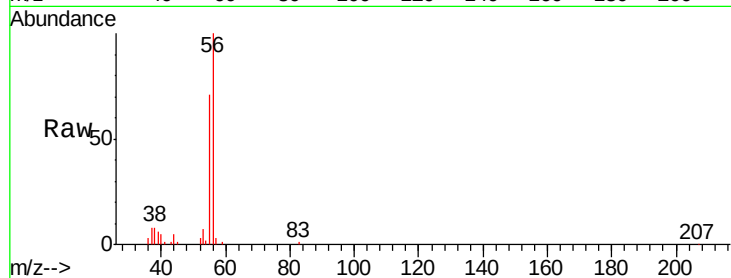
55 71.4 56.7 85.1

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#14

Acrylonitrile

Concen: 100.29 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

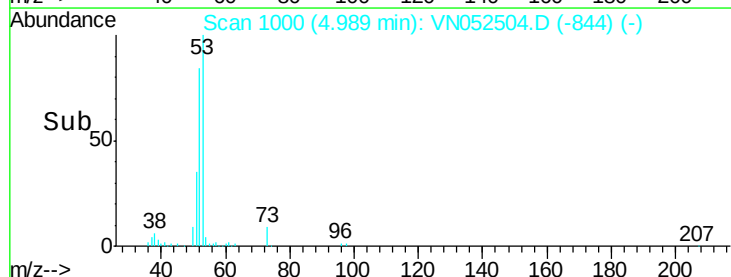
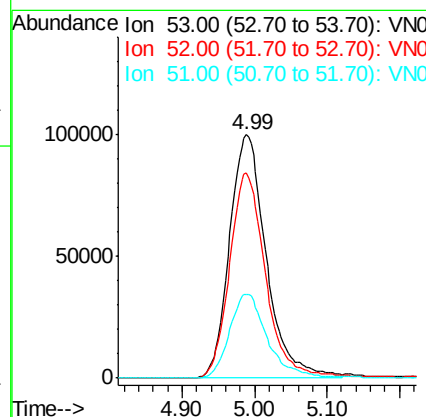
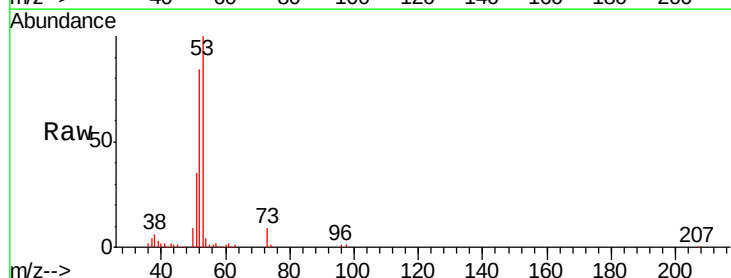
Tgt Ion: 53 Resp: 352842

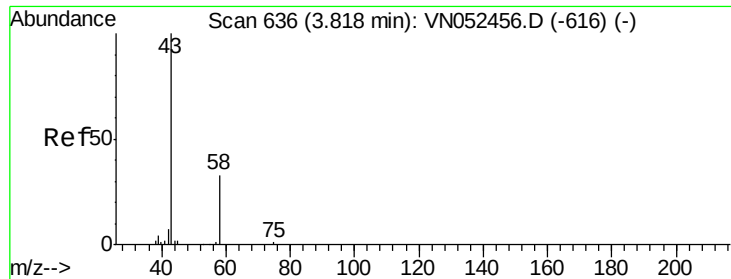
Ion Ratio Lower Upper

53 100

52 81.7 39.9 119.7

51 35.2 17.6 52.9





#15

Acetone

Concen: 84.86 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 58 Resp: 77319

Ion Ratio Lower Upper

58 100

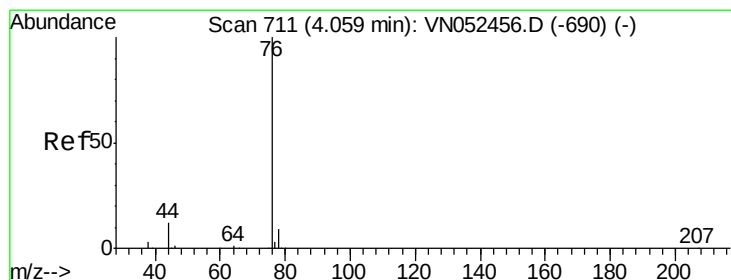
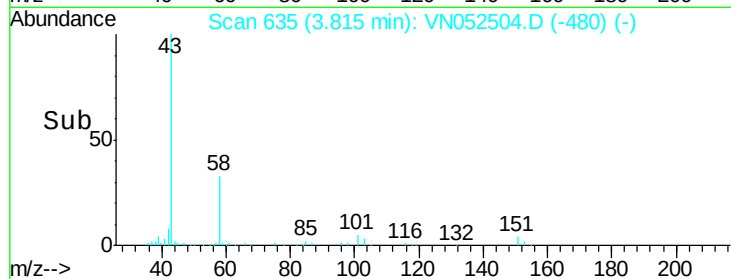
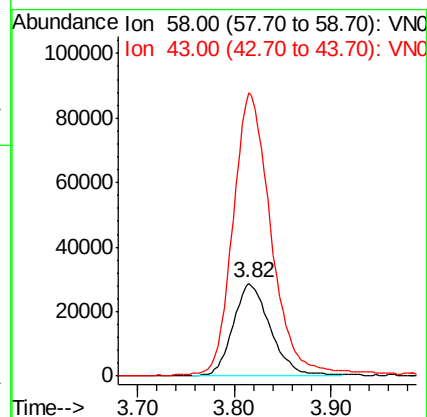
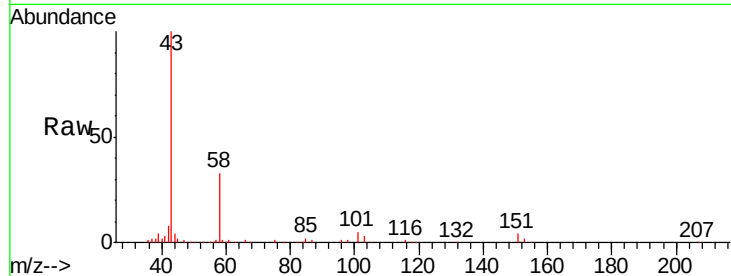
43 301.7 243.6 365.4

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#16

Carbon Disulfide

Concen: 18.45 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052504.D

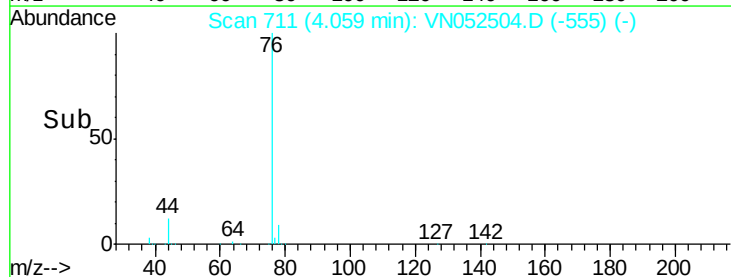
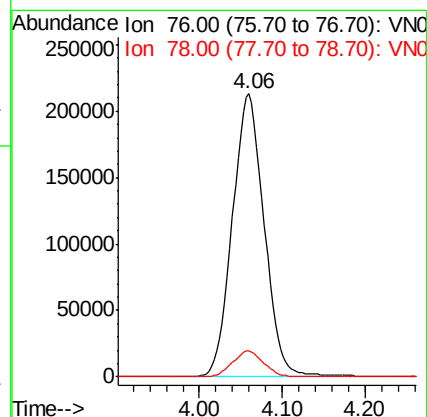
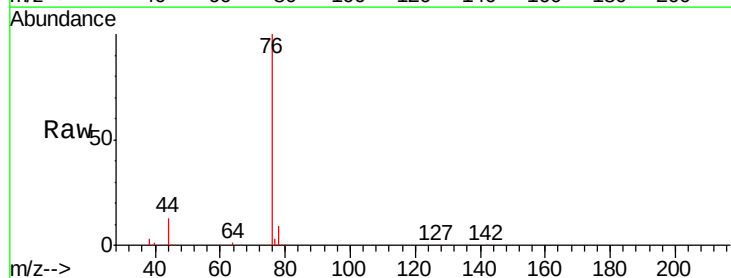
Acq: 28 Nov 2018 3:25

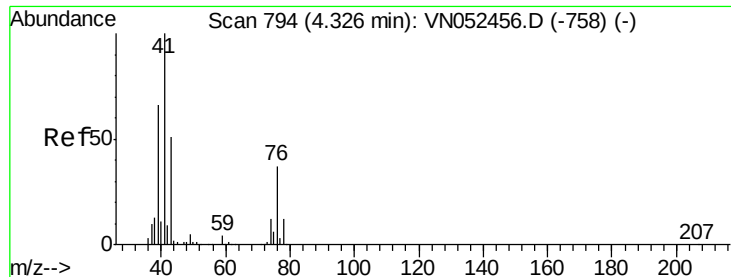
Tgt Ion: 76 Resp: 567520

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9





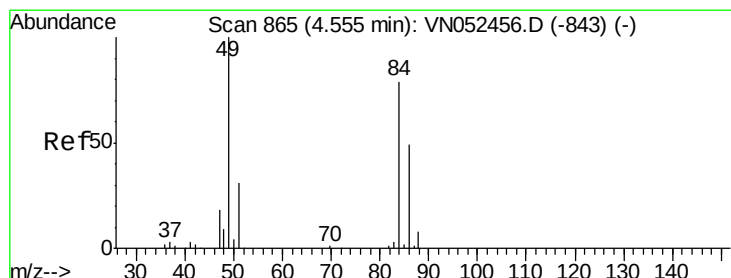
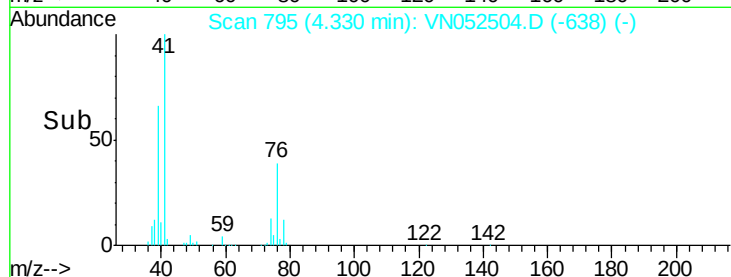
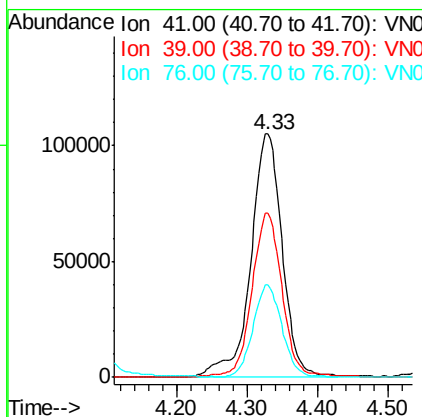
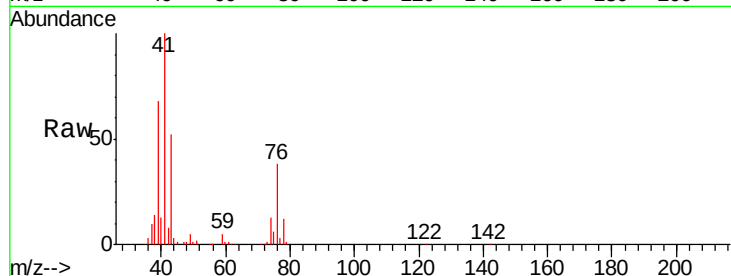
#17
 Allyl chloride
 Concen: 19.34 ug/l
 RT: 4.33 min Scan# 795
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion:	41	Resp:	327788
Ion	Ratio	Lower	Upper
41	100		
39	67.7	32.8	98.3
76	38.0	18.6	55.8

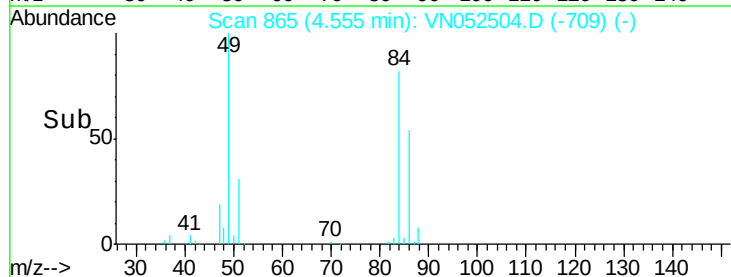
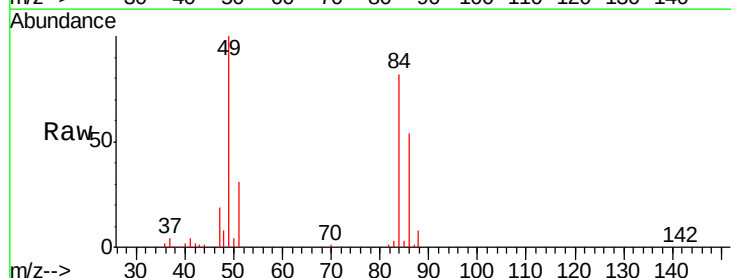
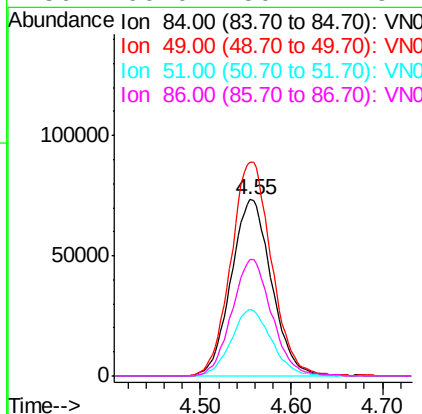
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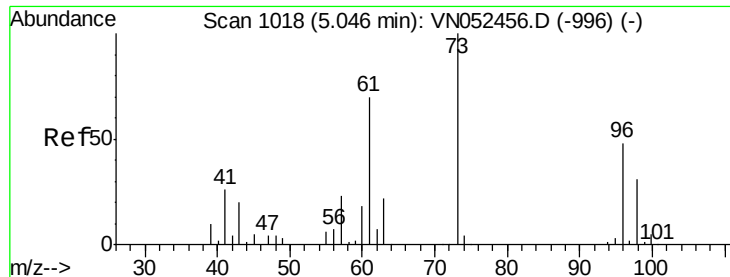
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#18
 Methylene Chloride
 Concen: 20.12 ug/l
 RT: 4.55 min Scan# 865
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion:	84	Resp:	226391
Ion	Ratio	Lower	Upper
84	100		
49	120.9	101.4	152.0
51	37.9	31.7	47.5
86	66.0	50.1	75.1





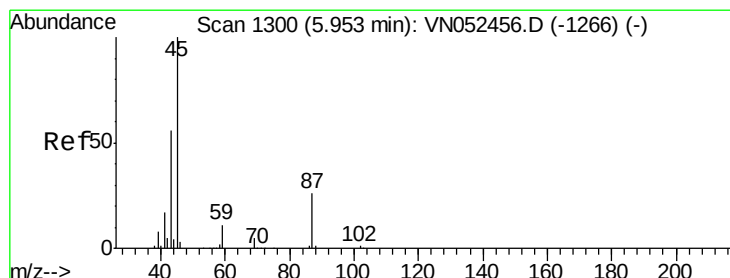
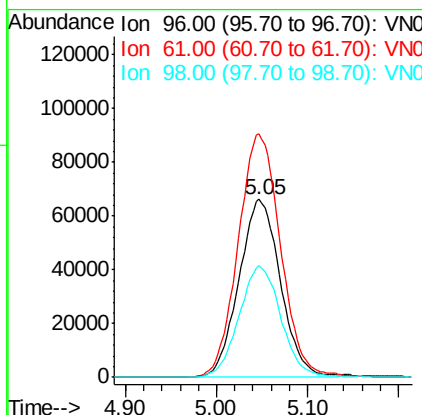
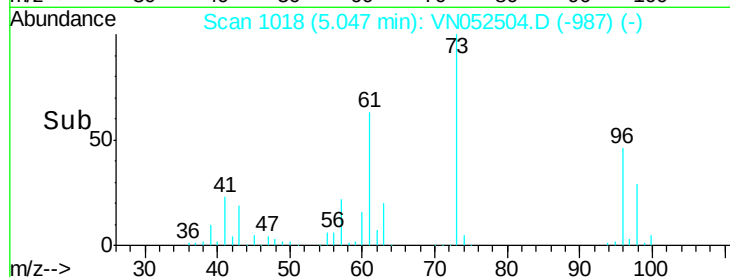
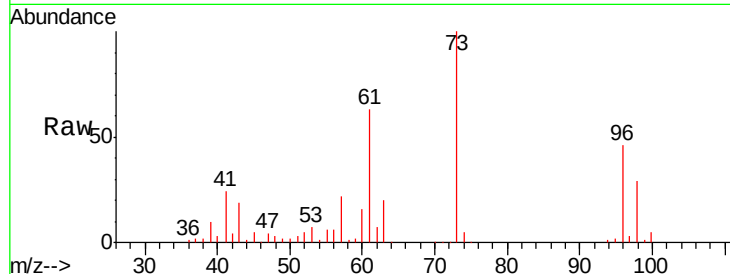
#19
trans-1,2-Dichloroethene
Concen: 20.12 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
96	100		
61	136.7	118.2	177.4
98	62.8	51.4	77.2

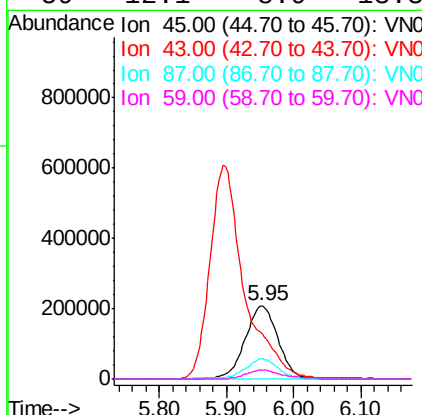
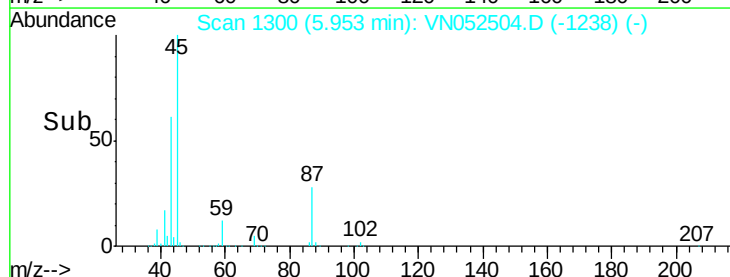
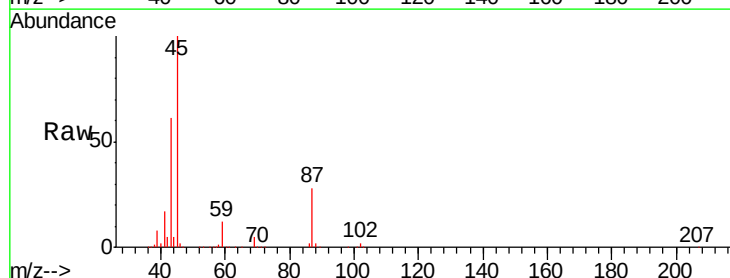
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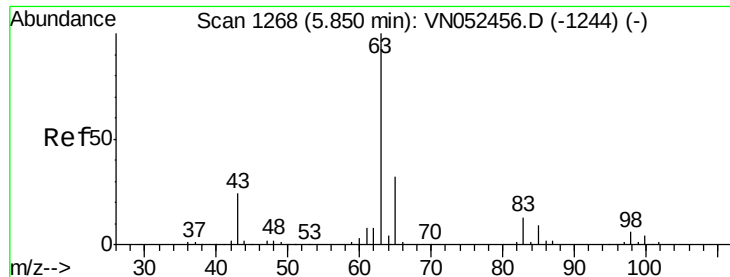
MMDadoda
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#20
Diisopropyl ether
Concen: 19.87 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.9	47.8	71.8
87	27.7	21.3	31.9
59	12.1	8.9	13.3





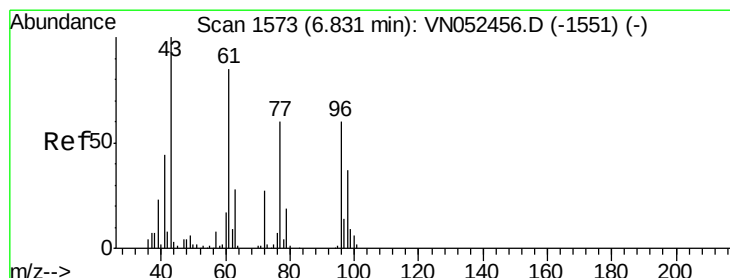
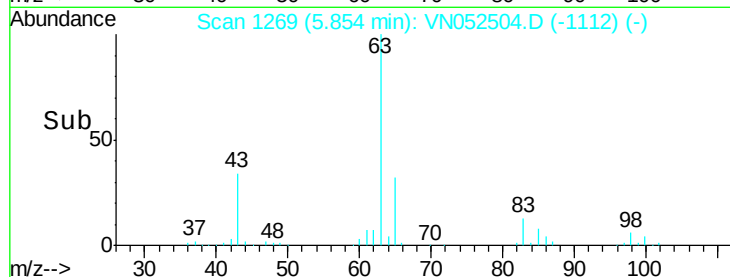
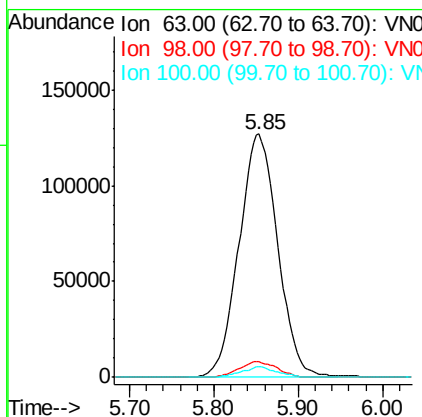
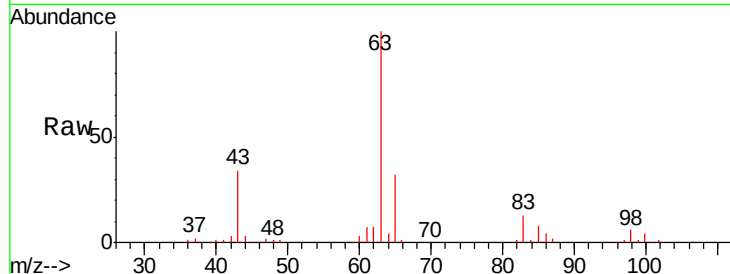
#21
 1,1-Dichloroethane
 Concen: 19.98 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion	Ratio	Resp Lower	Resp Upper
63	100		
98	6.4	3.0	9.2
100	4.4	1.8	5.5

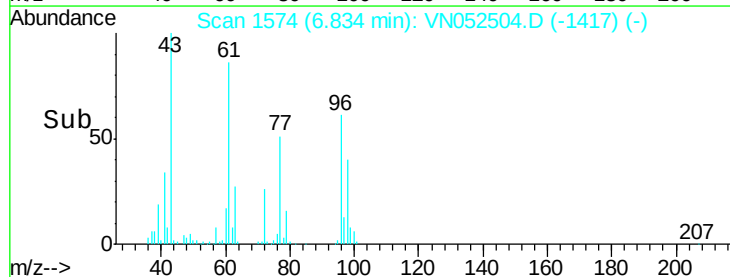
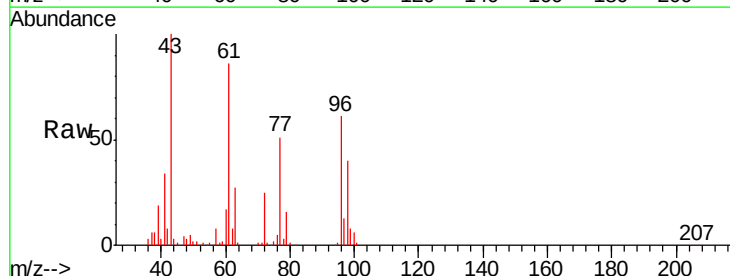
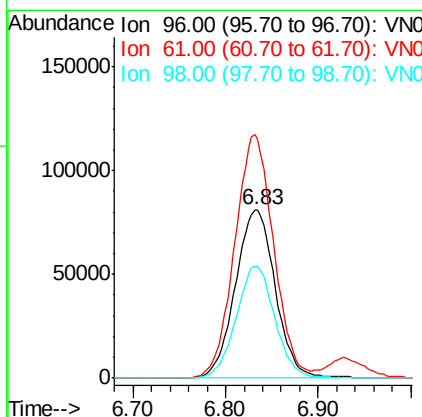
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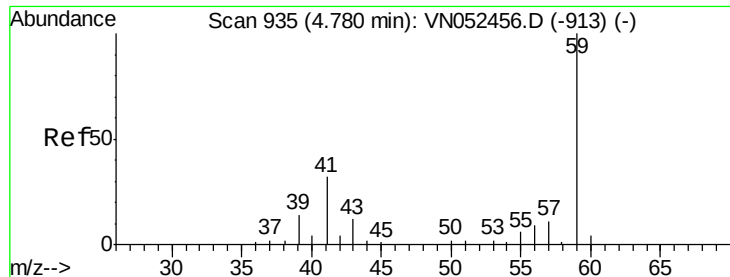
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#22
 cis-1,2-Dichloroethene
 Concen: 20.16 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Resp Lower	Resp Upper
96	100		
61	140.8	116.7	175.1
98	64.8	50.8	76.2





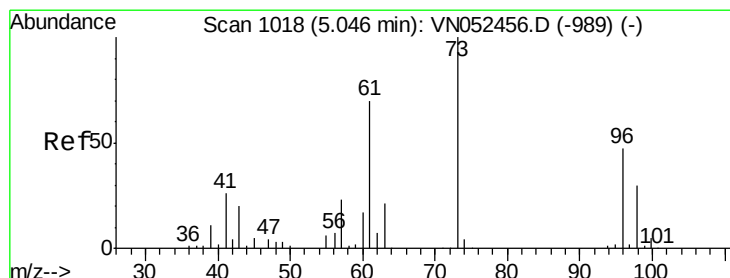
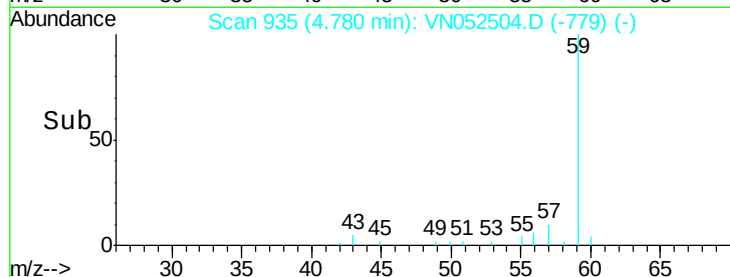
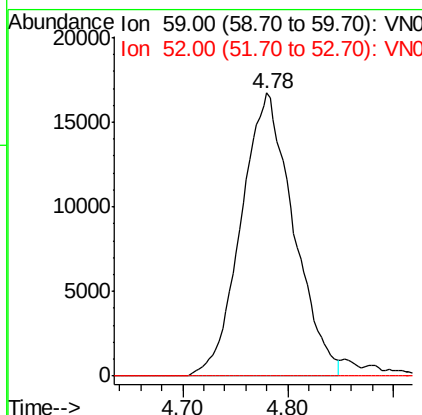
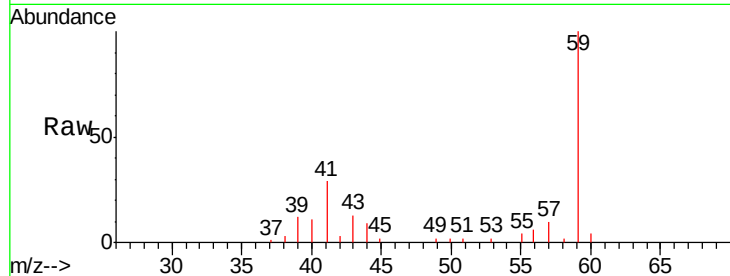
#23
 tert-Butyl Alcohol
 Concen: 110.46 ug/l
 RT: 4.78 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion: 59 Resp: 57813
 Ion Ratio Lower Upper
 59 100
 52 0.1 0.0 0.0#

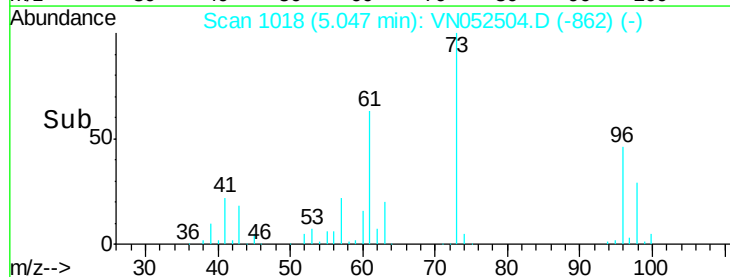
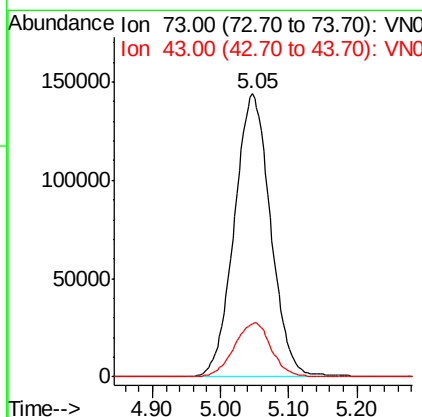
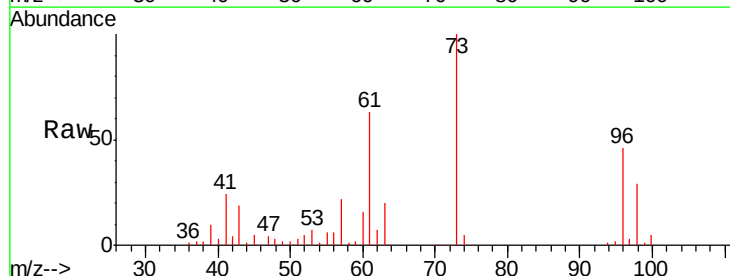
Manual Integrations
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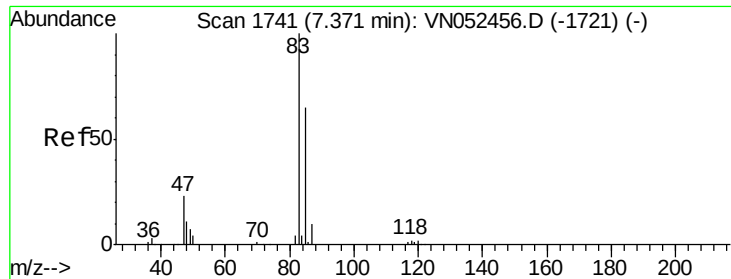
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 11/28/2018 9:32:40 AM



#24
 Methyl tert-Butyl Ether
 Concen: 20.88 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion: 73 Resp: 532193
 Ion Ratio Lower Upper
 73 100
 43 19.0 15.8 23.8





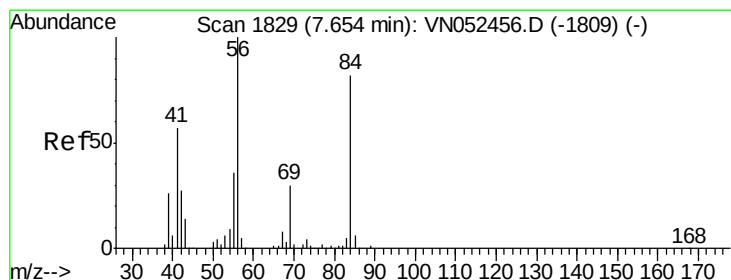
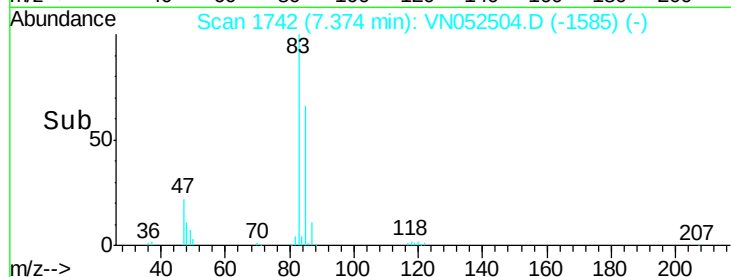
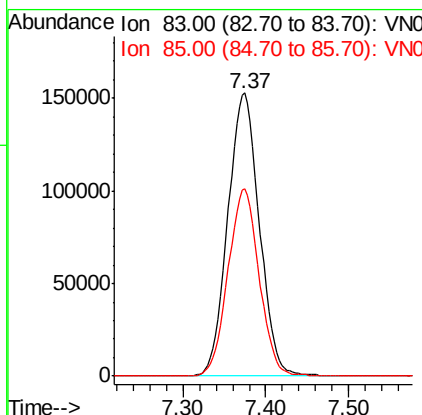
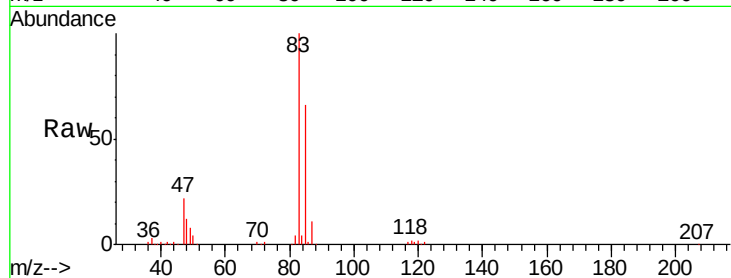
#25
Chloroform
Concen: 20.68 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.7	77.5

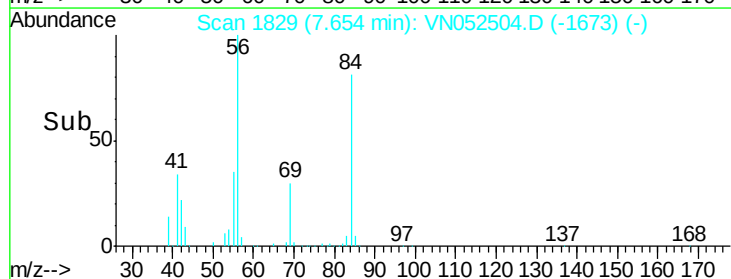
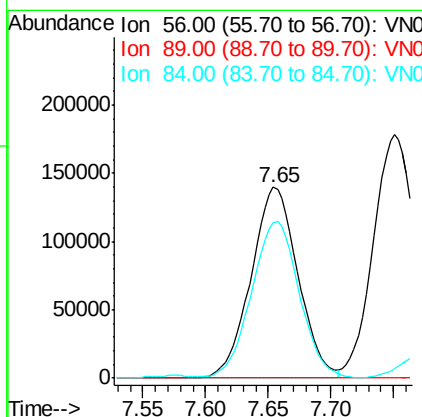
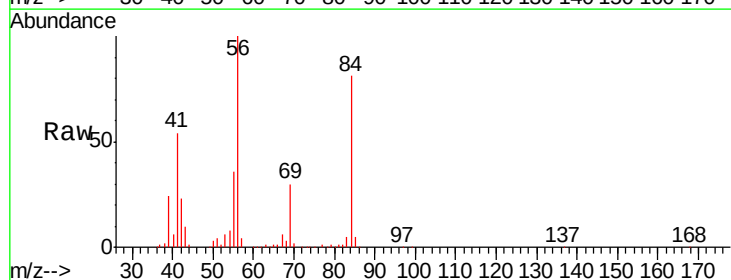
Manual Integrations
APPROVED

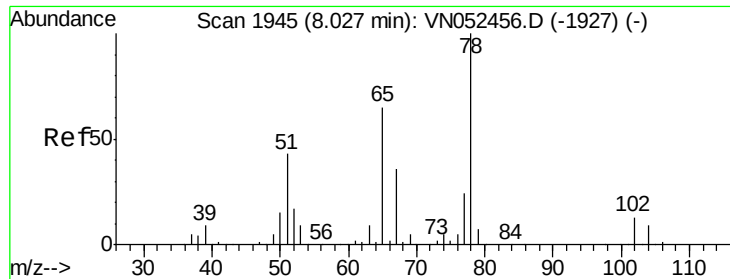
MMDadoda
11/28/2018 9:32:40 AM



#26
Cyclohexane
Concen: 18.97 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
56	100		
89	0.0	0.5	0.7#
84	83.9	66.2	99.2





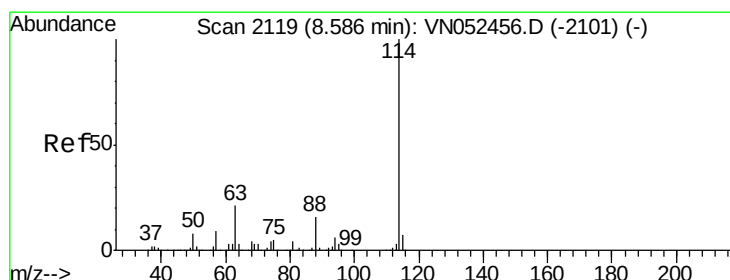
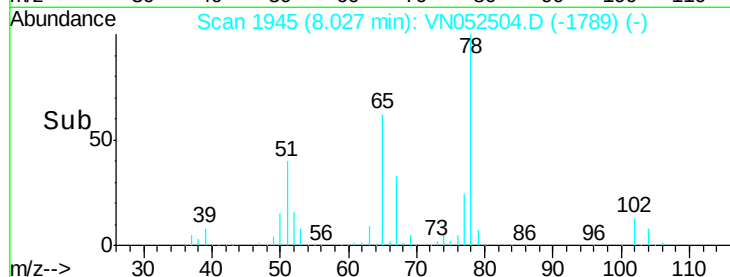
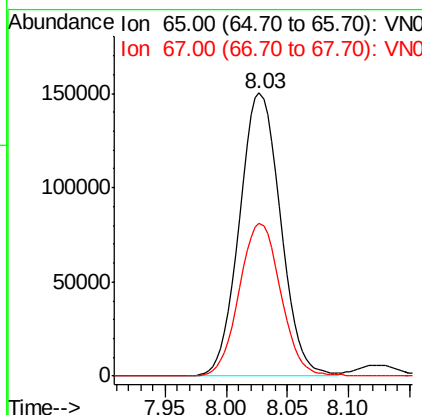
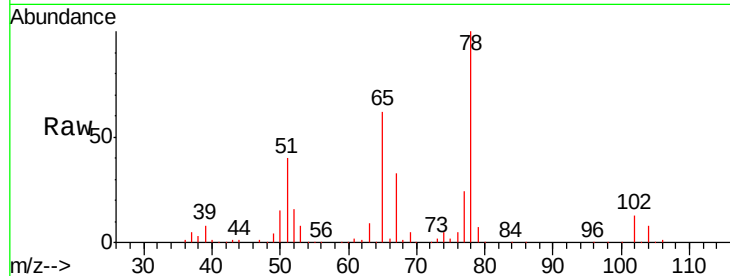
#27
 1,2-Dichloroethane-d4
 Concen: 18.97 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	351377		
67	54.4	44.6	66.8	

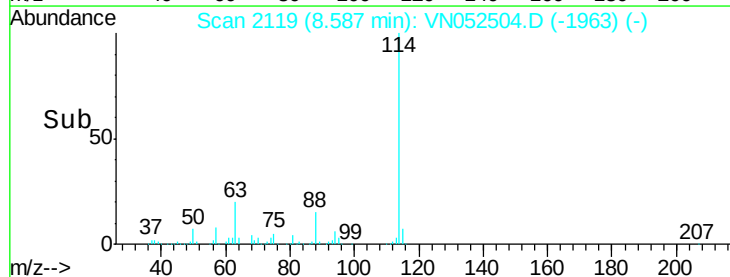
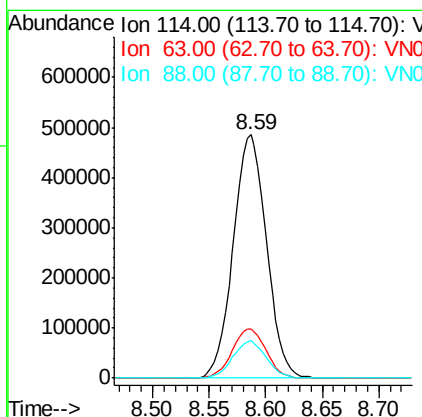
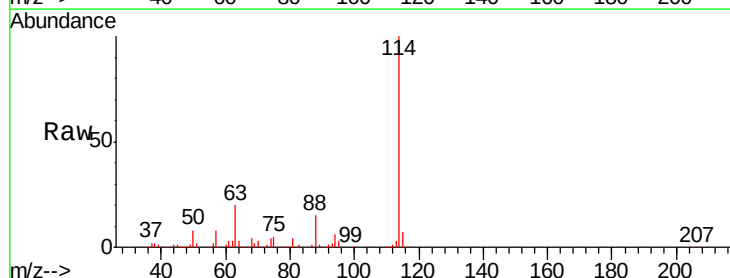
Manual Integrations
 APPROVED

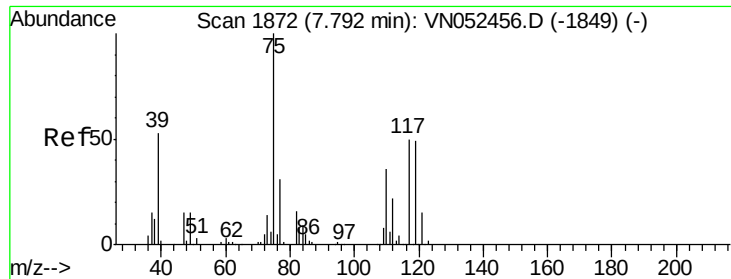
MMDadoda
 11/28/2018 9:32:40 AM



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	996037		
63	20.6	16.9	25.3	
88	15.4	12.8	19.2	





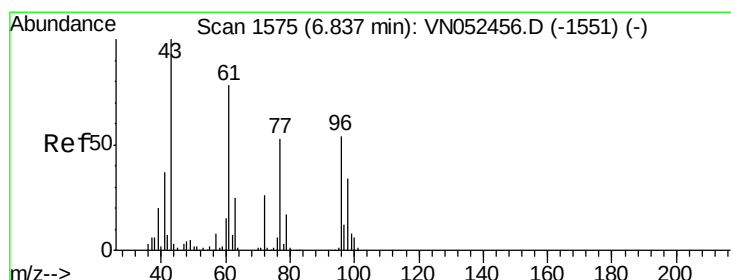
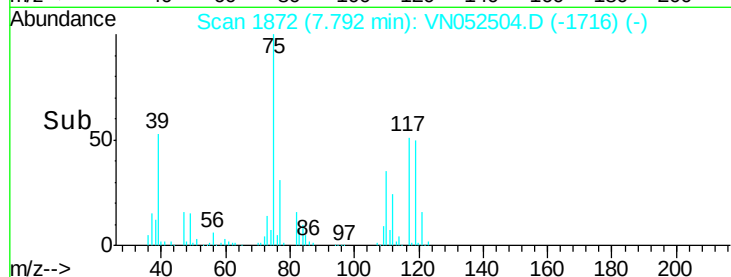
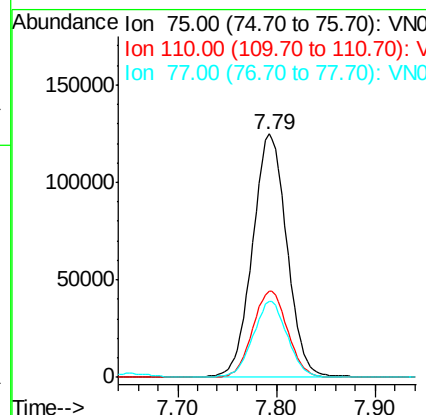
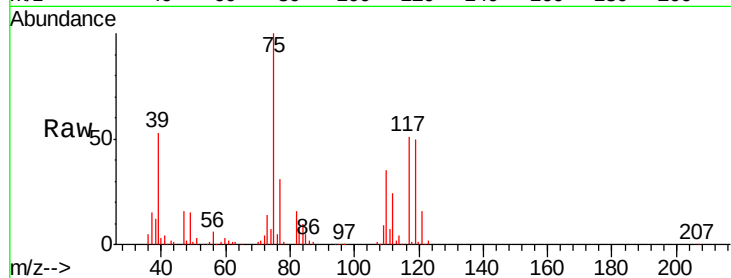
#29
 1,1-Dichloropropene
 Concen: 19.73 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.8	0.0	70.2
77	31.2	0.0	62.6

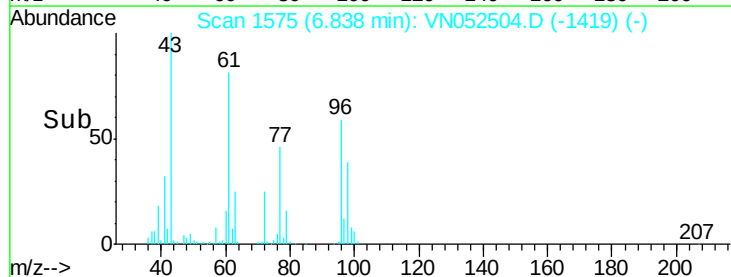
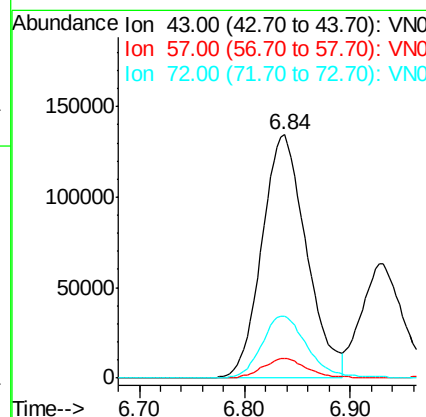
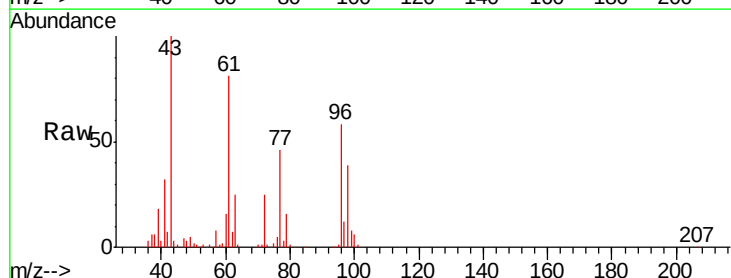
Manual Integrations
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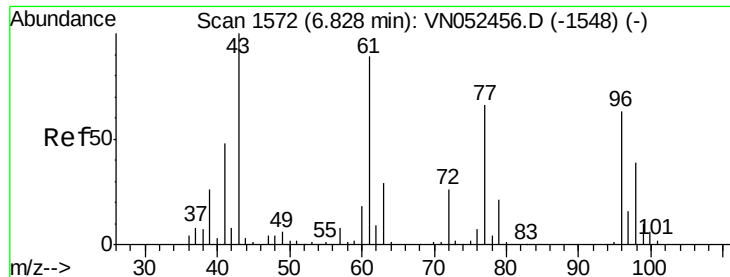
MMDadoda
 11/28/2018 9:32:40 AM



#30
 2-Butanone
 Concen: 96.38 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.1	6.2	9.4
72	26.2	21.0	31.6





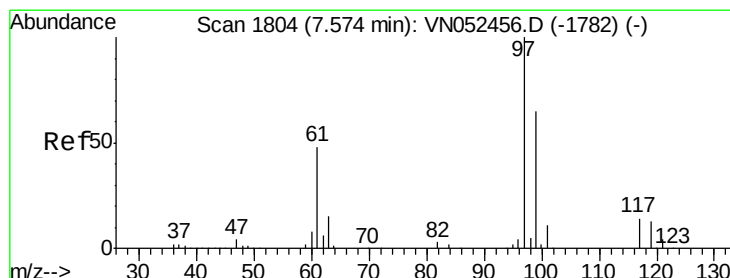
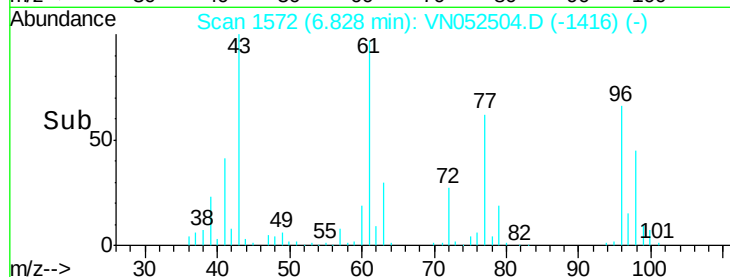
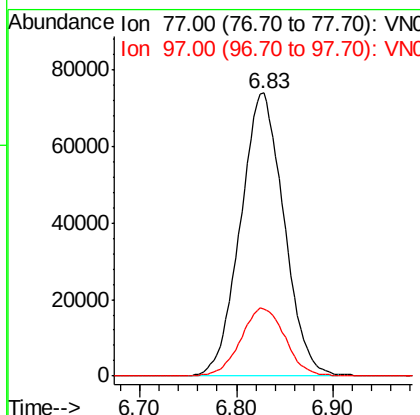
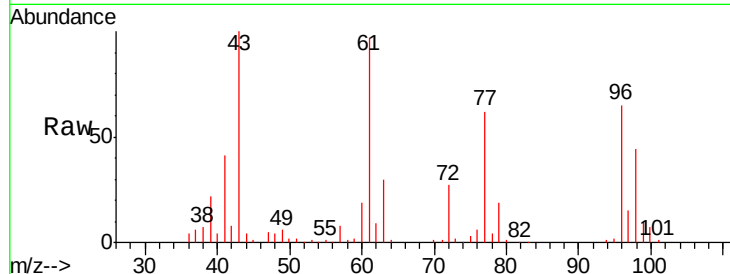
#31
 2,2-Dichloropropane
 Concen: 16.51 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion: 77 Resp: 231160
 Ion Ratio Lower Upper
 77 100
 97 24.6 18.7 28.1

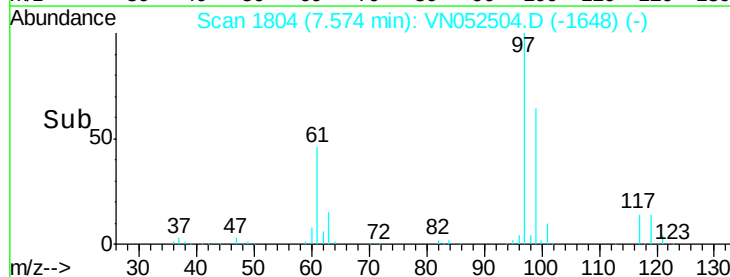
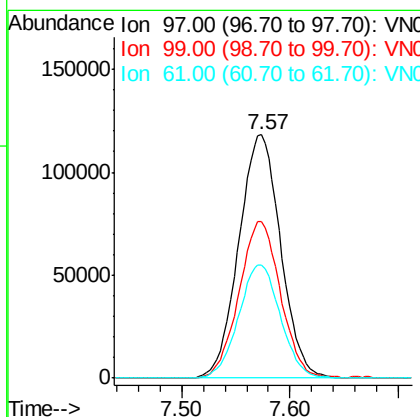
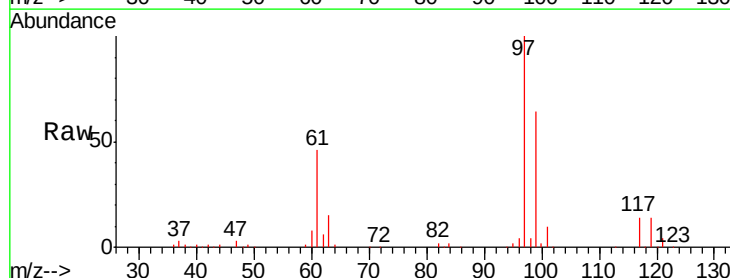
Manual Integrations
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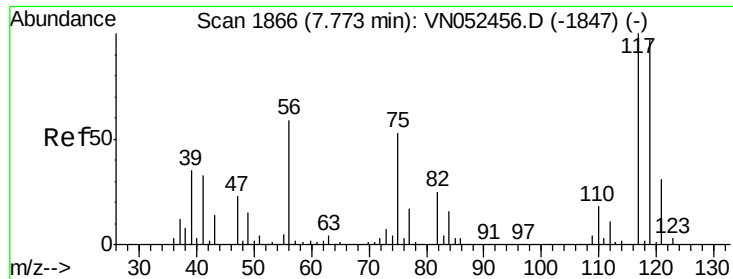
MMDadoda
 11/28/2018 9:32:40 AM



#32
 1,1,1-Trichloroethane
 Concen: 20.13 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion: 97 Resp: 318674
 Ion Ratio Lower Upper
 97 100
 99 63.6 50.9 76.3
 61 46.5 38.1 57.1





#33

Carbon Tetrachloride

Concen: 19.99 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 117 Resp: 276816
Ion Ratio Lower Upper

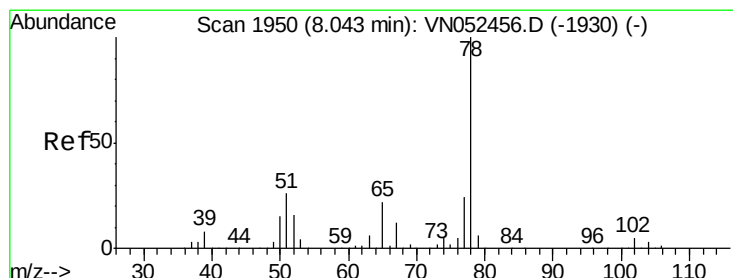
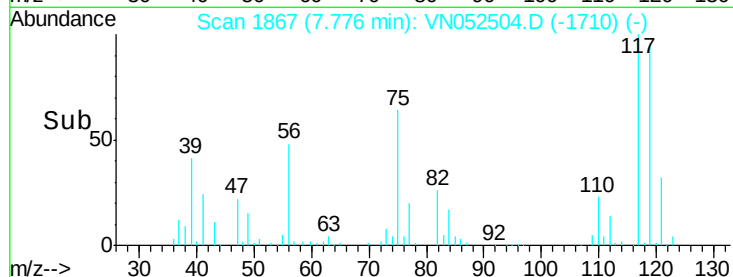
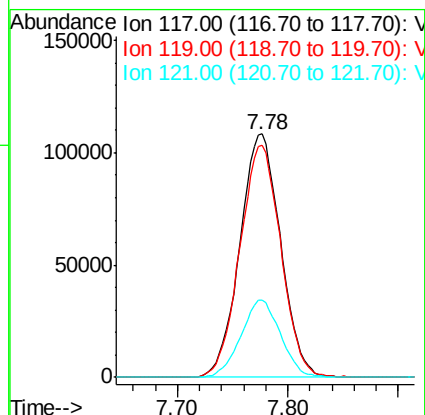
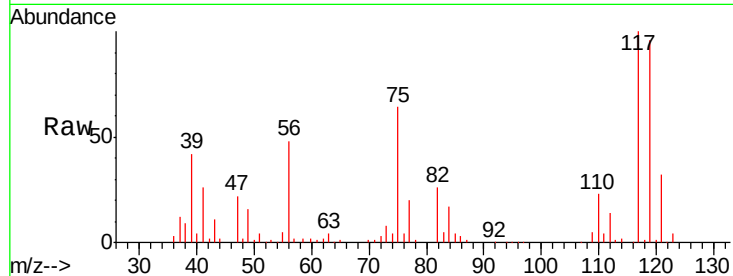
117 100

119 95.6 77.3 115.9

121 31.9 24.9 37.3

Manual Integrations
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11/28/2018 9:32:40 AM



#34

Benzene

Concen: 20.27 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN052504.D

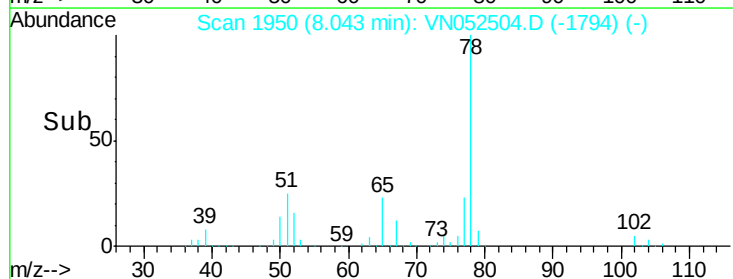
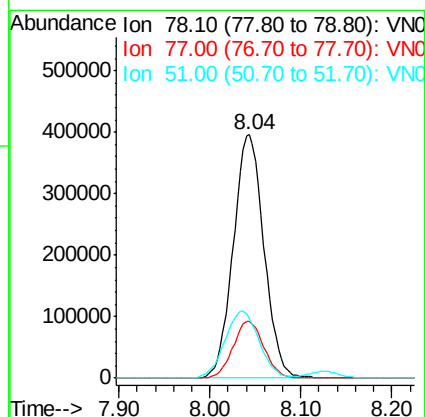
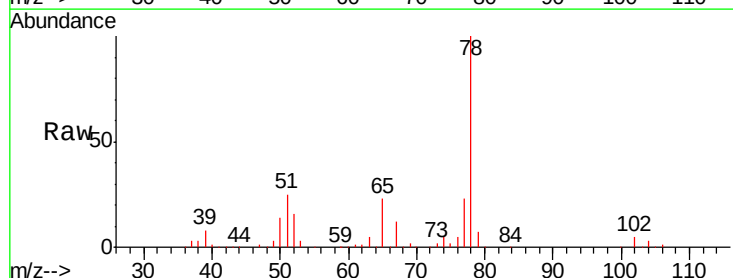
Acq: 28 Nov 2018 3:25

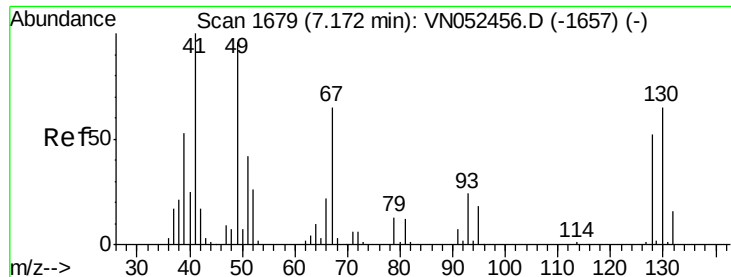
Tgt Ion: 78 Resp: 926883
Ion Ratio Lower Upper

78 100

77 23.3 19.0 28.6

51 24.5 20.5 30.7





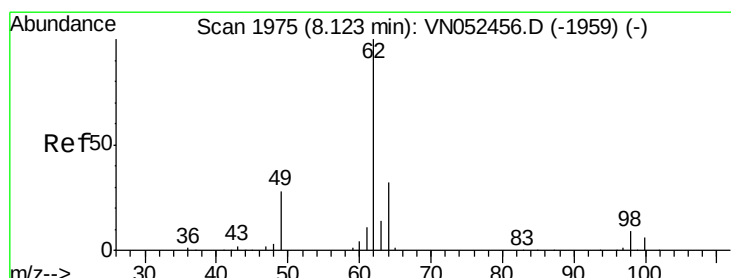
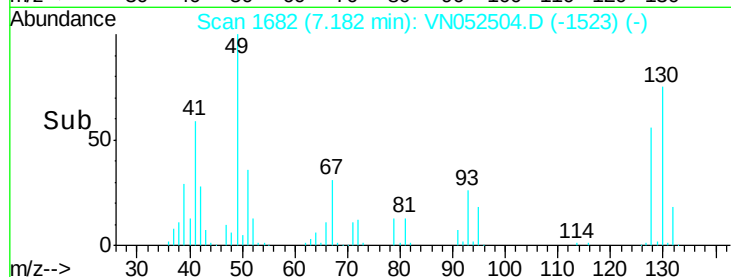
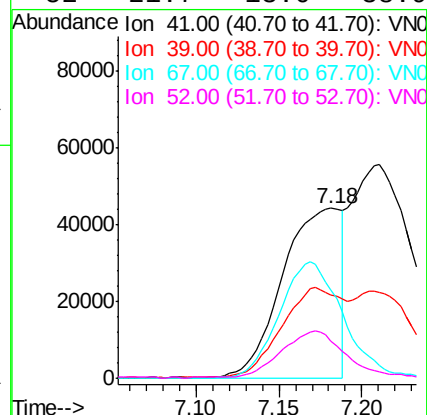
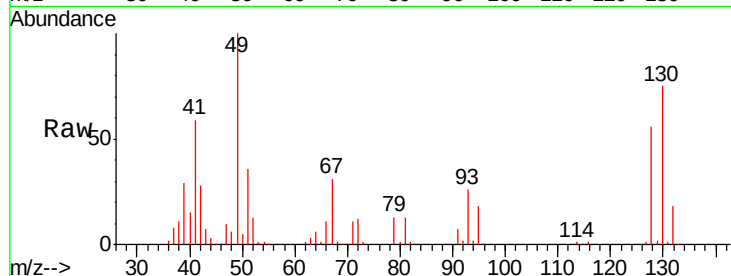
#35
Methacrylonitrile
Concen: 21.62 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.01 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
41	100		
39	48.8	26.6	79.7
67	52.3	32.3	96.9
52	21.7	13.0	38.9

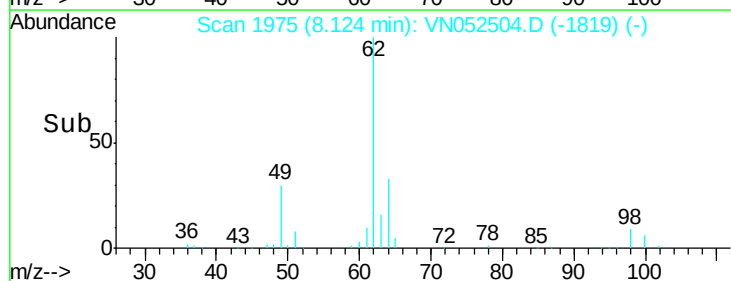
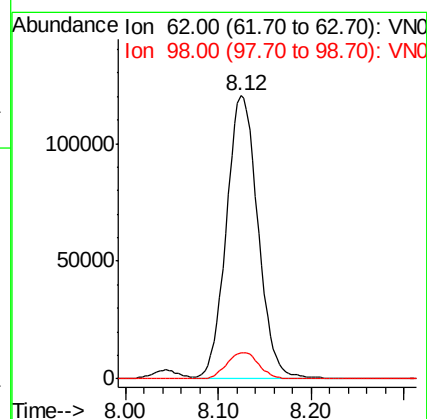
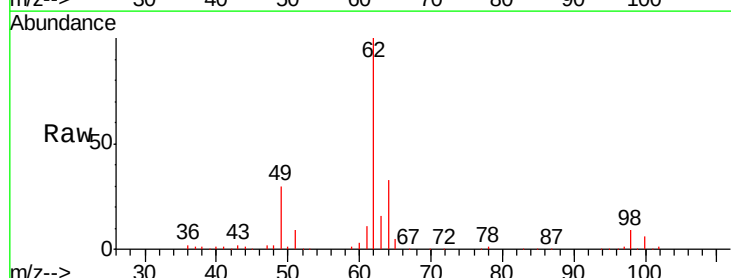
Manual Integrations
APPROVED

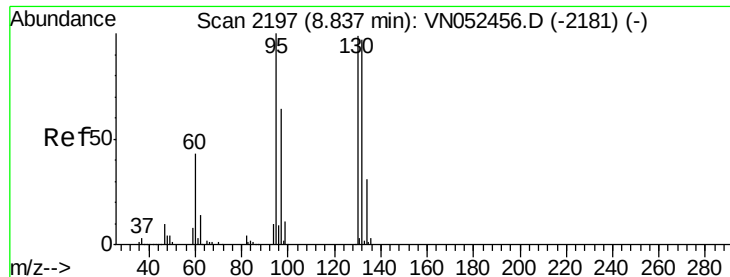
MMDadoda
11/28/2018 9:32:40 AM



#36
1,2-Dichloroethane
Concen: 20.57 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.4	7.4	11.2





#37

Trichloroethene

Concen: 20.07 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 130 Resp: 232756

Ion Ratio Lower Upper

130 100

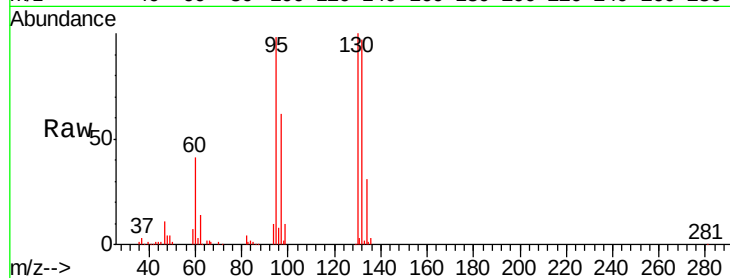
95 98.5 81.0 121.4

Manual Integrations

APPROVED

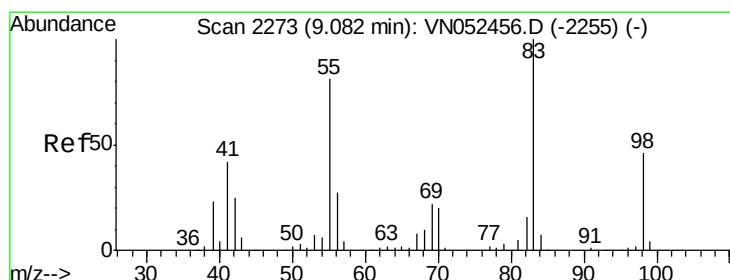
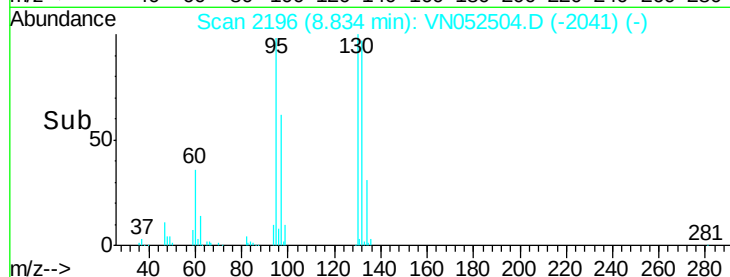
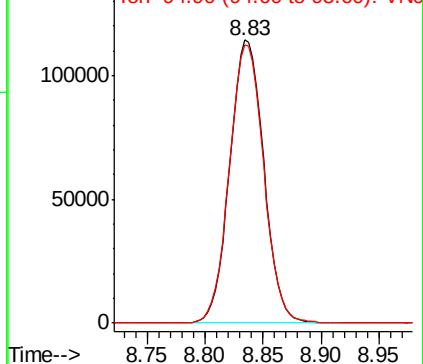
MMDadoda

11/28/2018 9:32:40 AM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VNO



#38

Methylcyclohexane

Concen: 18.98 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

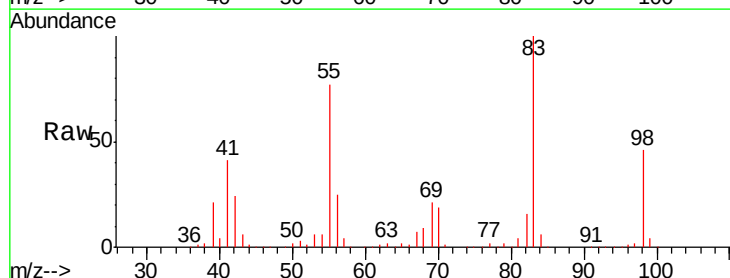
Tgt Ion: 83 Resp: 357429

Ion Ratio Lower Upper

83 100

55 76.3 39.8 119.4

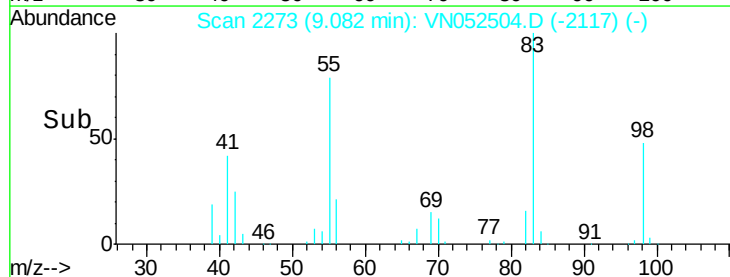
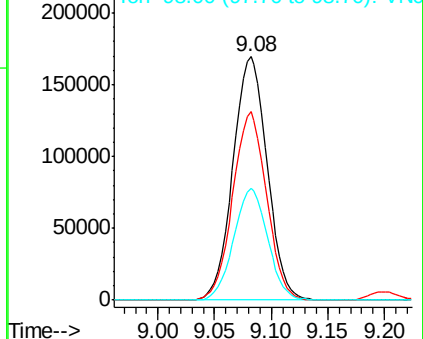
98 45.6 22.9 68.5

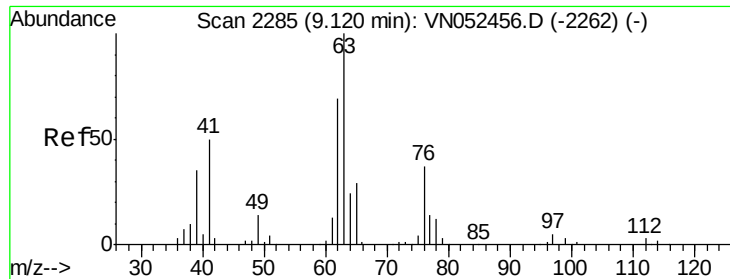


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO





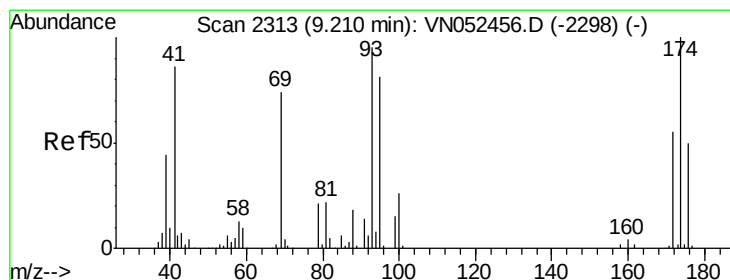
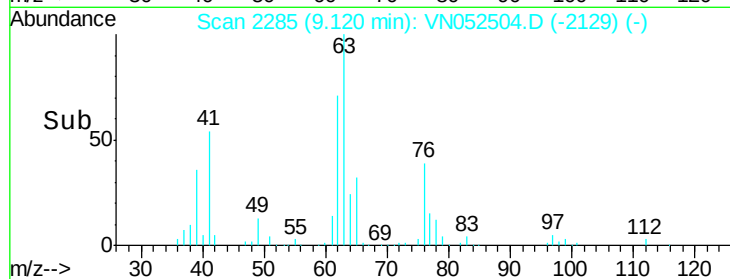
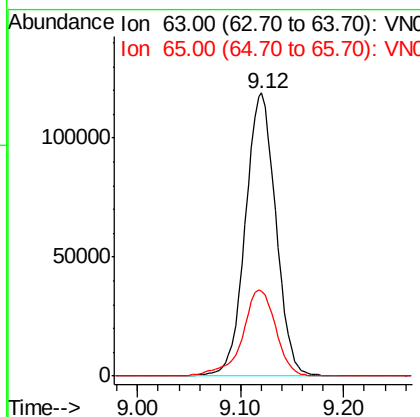
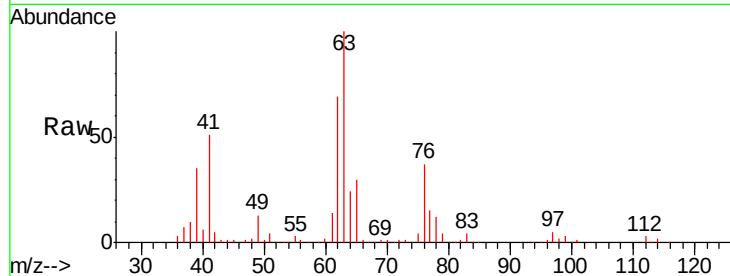
#39
 1,2-Dichloropropane
 Concen: 19.88 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion: 63 Resp: 243726
 Ion Ratio Lower Upper
 63 100
 65 30.0 23.6 35.4

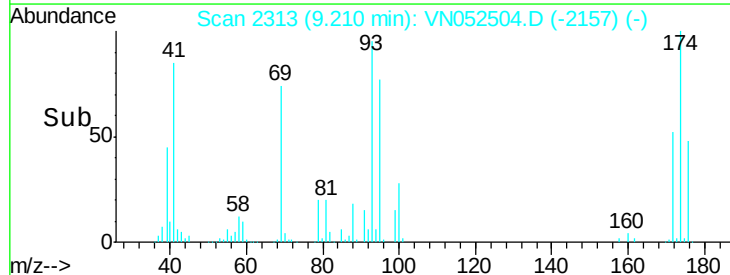
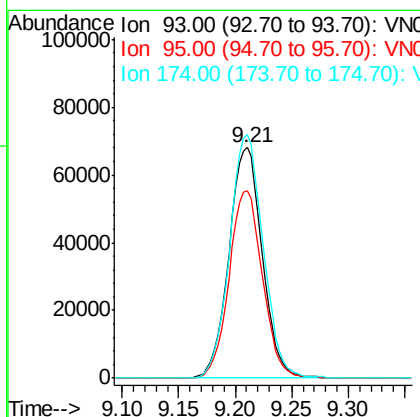
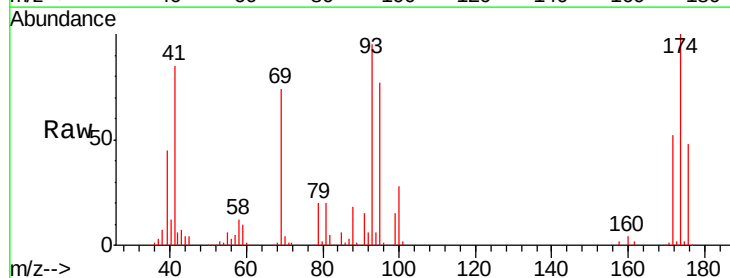
Manual Integrations
 APPROVED

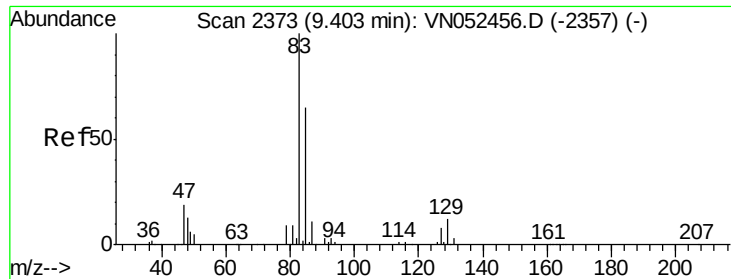
MMDadoda
 11/28/2018 9:32:40 AM



#40
 Dibromomethane
 Concen: 21.10 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion: 93 Resp: 139752
 Ion Ratio Lower Upper
 93 100
 95 81.2 0.0 168.4
 174 106.1 0.0 210.0





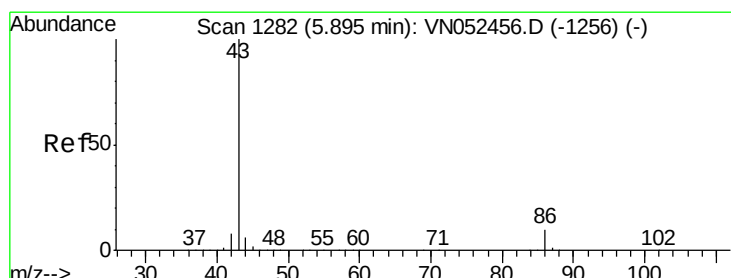
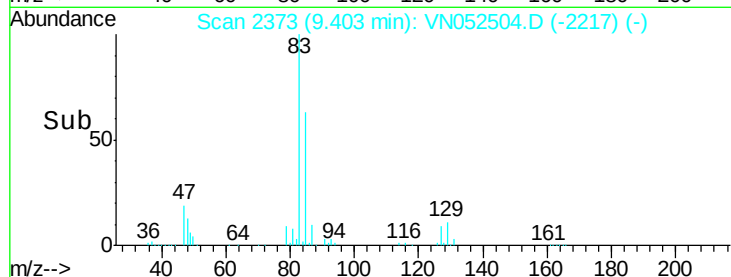
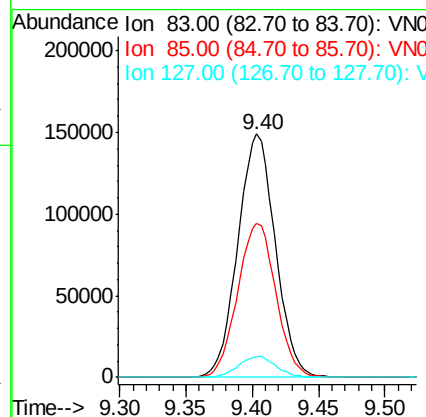
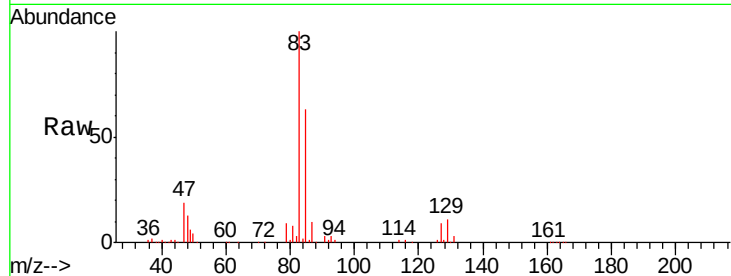
#41
Bromodichloromethane
Concen: 20.01 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.4	78.6
127	8.5	6.6	9.8

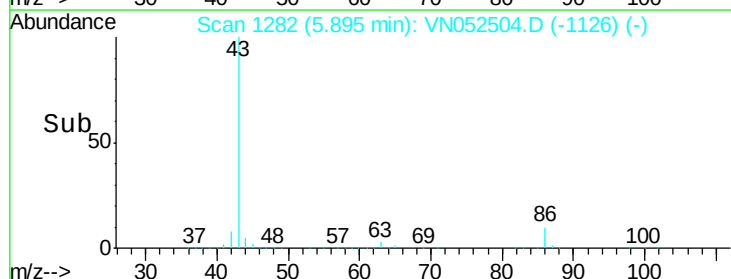
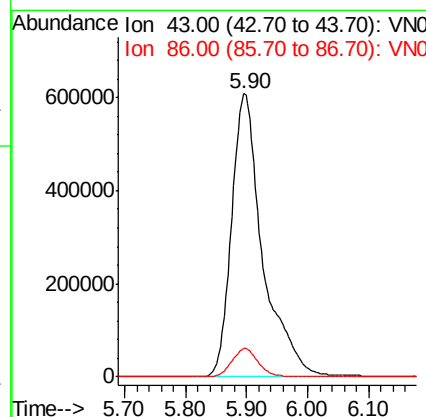
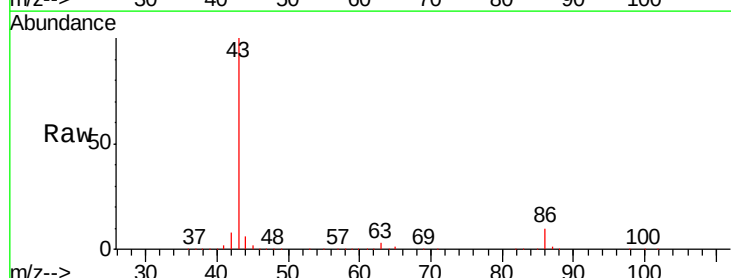
Manual Integrations
APPROVED

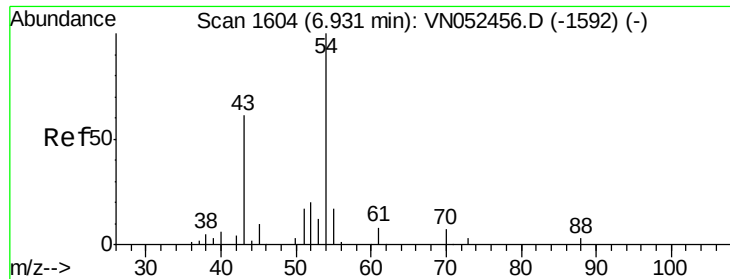
MMDadoda
11/28/2018 9:32:40 AM



#42
Vinyl Acetate
Concen: 98.03 ug/l
RT: 5.90 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
43	100		
86	8.5	6.5	9.7





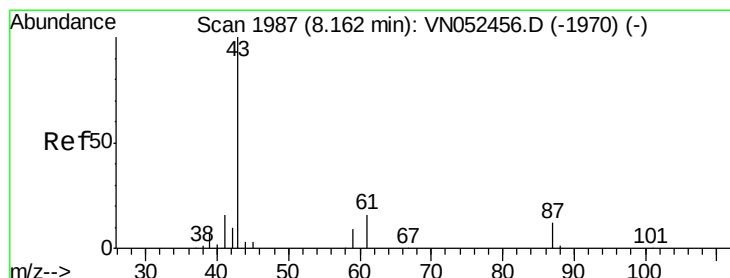
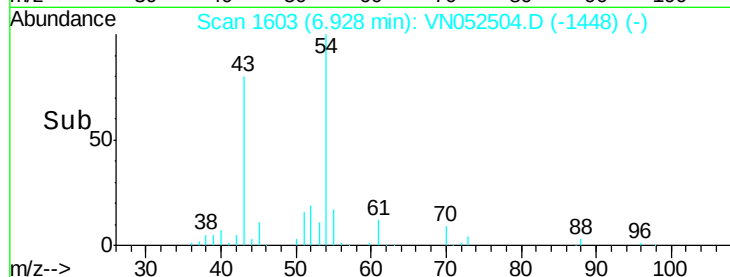
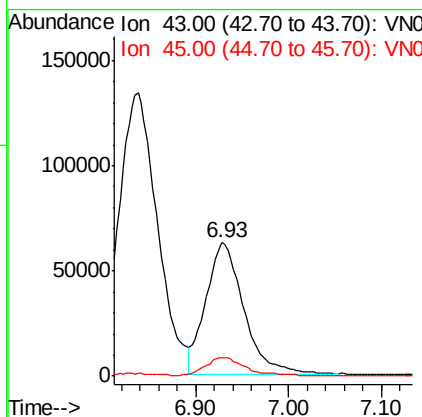
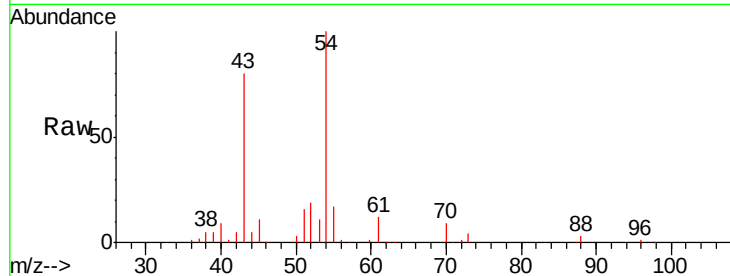
#43
Ethyl Acetate
Concen: 20.51 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion: 43 Resp: 177521
Ion Ratio Lower Upper
43 100
45 13.2 1.0 1.6#

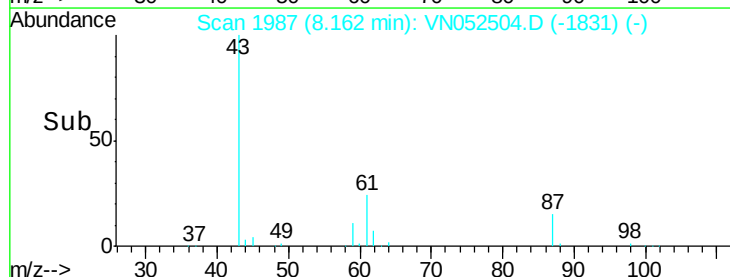
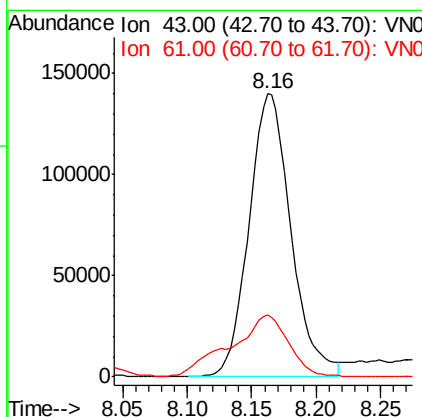
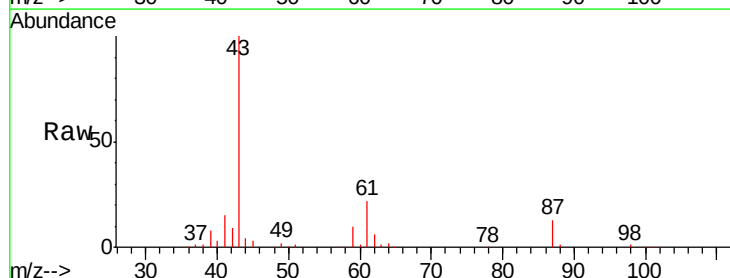
Manual Integrations
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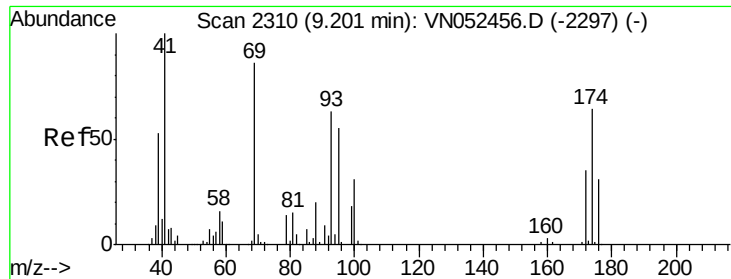
MMDadoda
11/28/2018 9:32:40 AM



#44
Isopropyl Acetate
Concen: 20.85 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Tgt Ion: 43 Resp: 316542
Ion Ratio Lower Upper
43 100
61 18.2 16.0 24.0





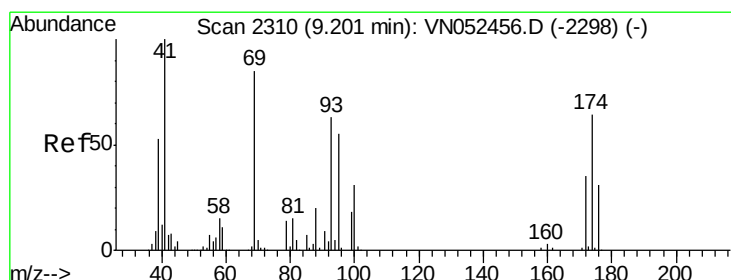
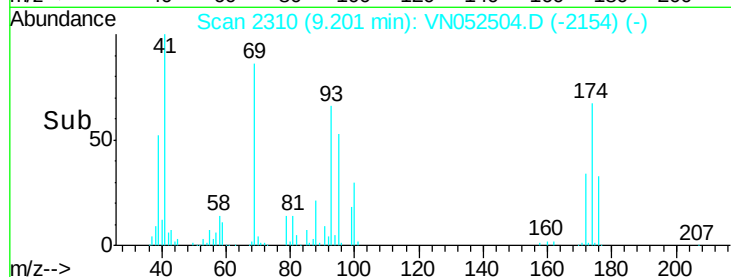
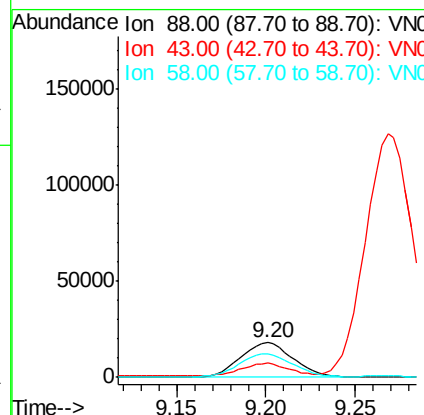
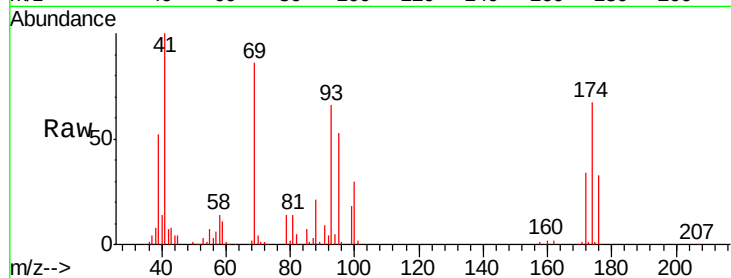
#45
 1,4-Dioxane
 Concen: 447.03 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
88	100		
43	31.8	29.5	44.3
58	71.0	61.5	92.3

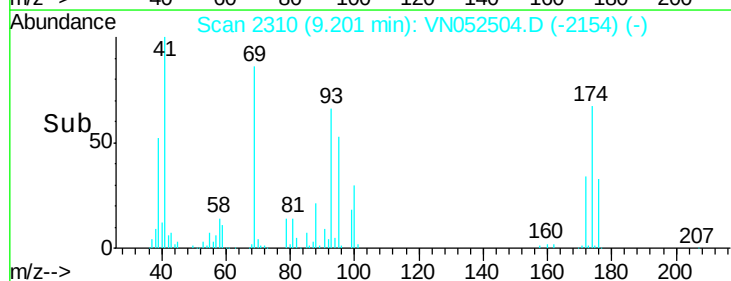
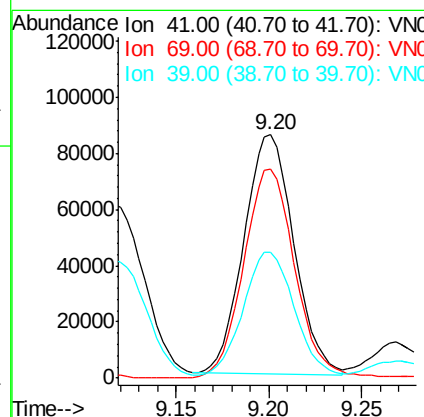
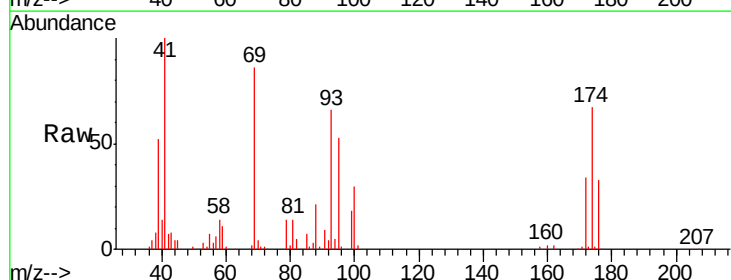
Manual Integrations
 APPROVED

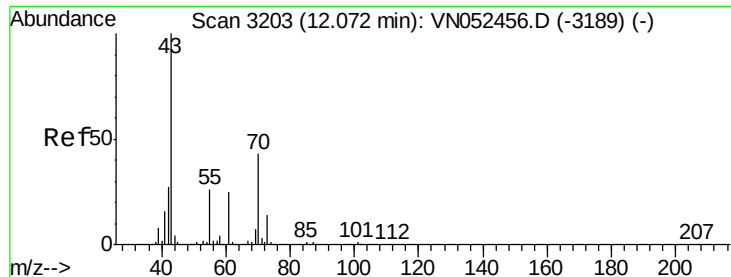
MMDadoda
 11/28/2018 9:32:40 AM



#46
 Methyl methacrylate
 Concen: 20.34 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
41	100		
69	87.4	42.5	127.6
39	51.4	26.3	78.9





#47

n-amyl Acetate

Concen: 19.31 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 43 Resp: 243072

Ion Ratio Lower Upper

43 100

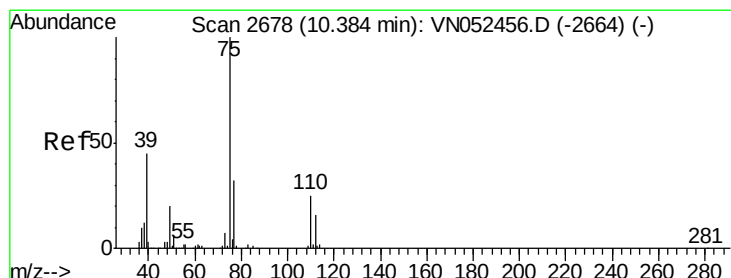
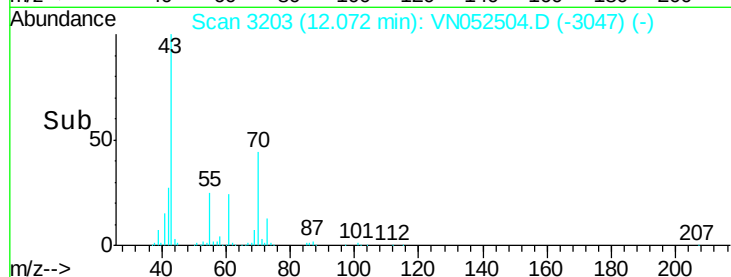
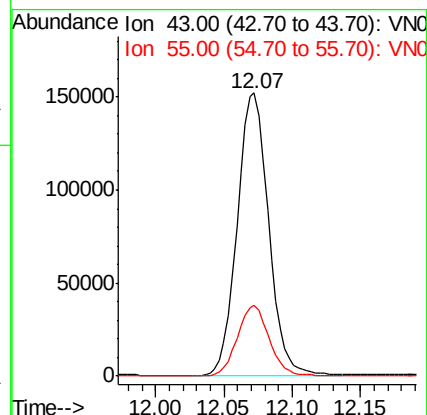
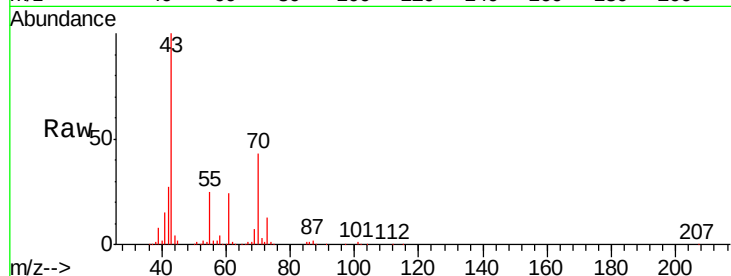
55 25.5 21.1 31.7

Manual Integrations

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#48

t-1,3-Dichloropropene

Concen: 19.00 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN052504.D

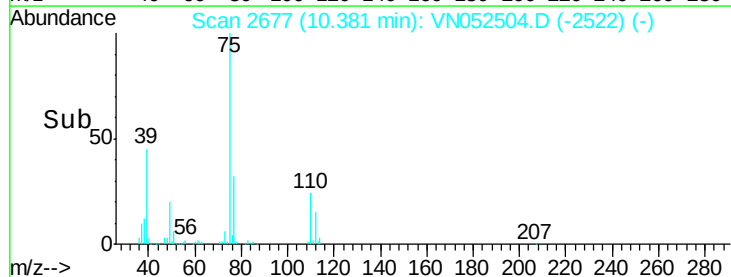
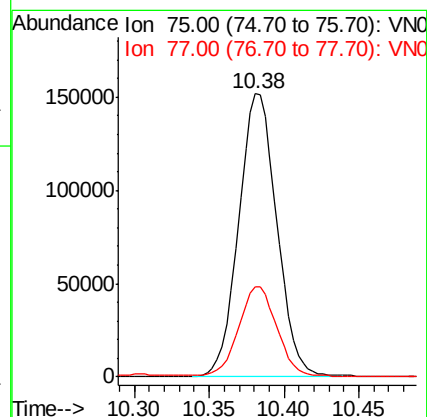
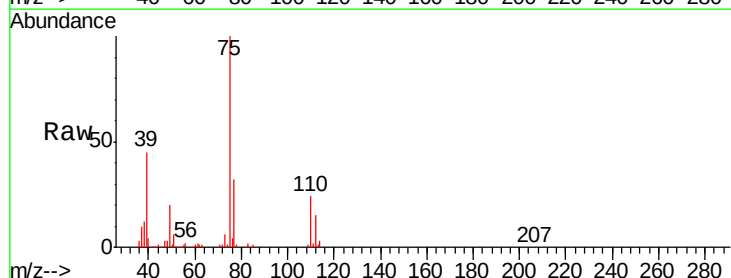
Acq: 28 Nov 2018 3:25

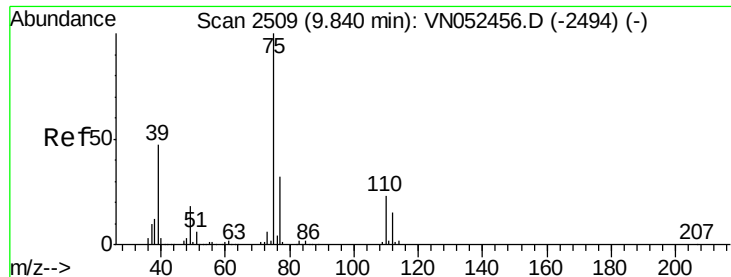
Tgt Ion: 75 Resp: 269668

Ion Ratio Lower Upper

75 100

77 31.7 25.6 38.4





#49

cis-1,3-Dichloropropene

Concen: 19.02 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

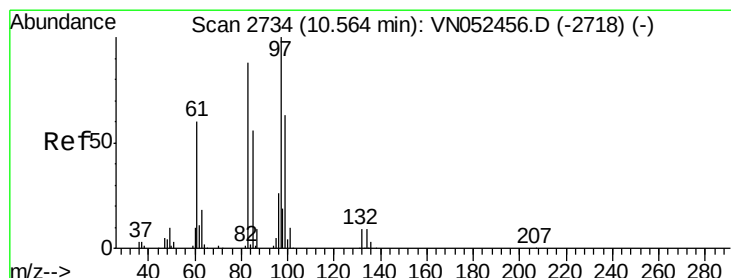
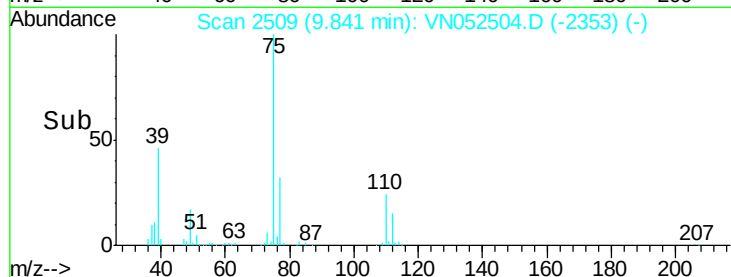
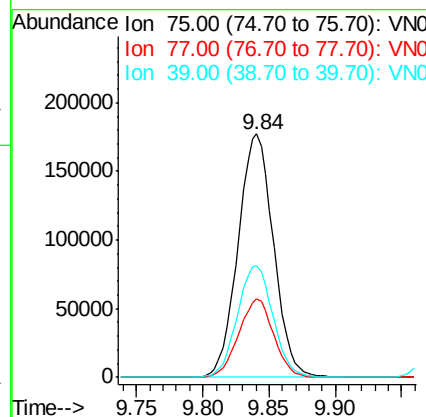
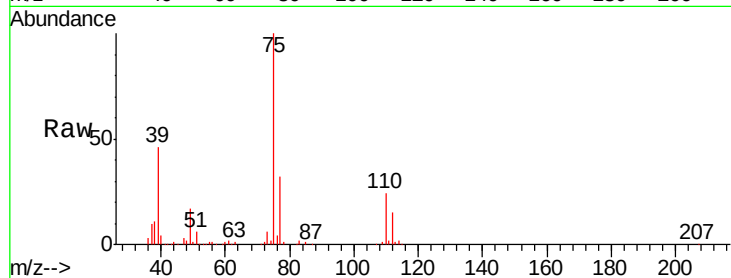
ClientSampleId :

VSTDCCC020EC

Tgt Ion:	75	Resp:	328774
Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.4	38.0
39	45.7	37.3	55.9

Manual Integrations
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#50

1,1,2-Trichloroethane

Concen: 20.94 ug/l

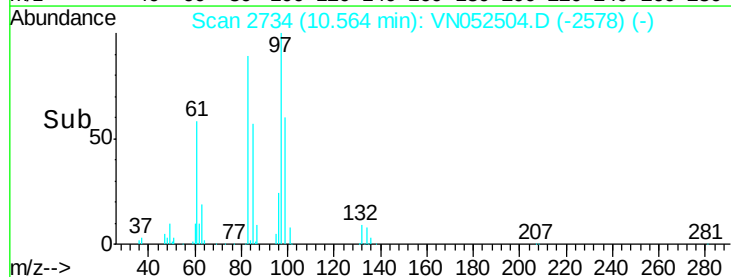
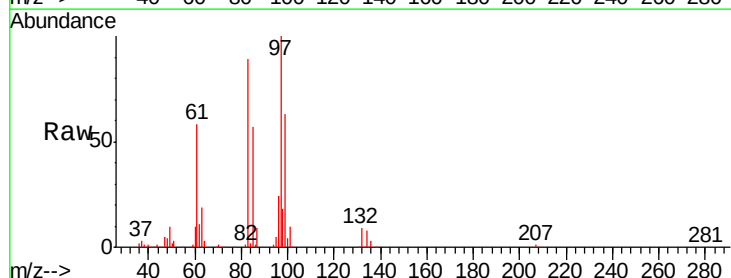
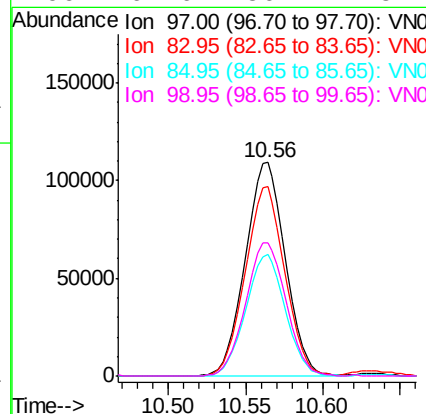
RT: 10.56 min Scan# 2734

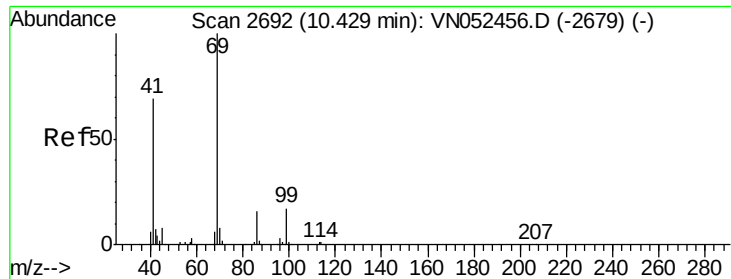
Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Tgt Ion:	97	Resp:	196663
Ion	Ratio	Lower	Upper
97	100		
83	88.6	70.4	105.6
85	56.7	45.0	67.6
99	62.6	50.2	75.2





#51

Ethyl methacrylate

Concen: 20.30 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

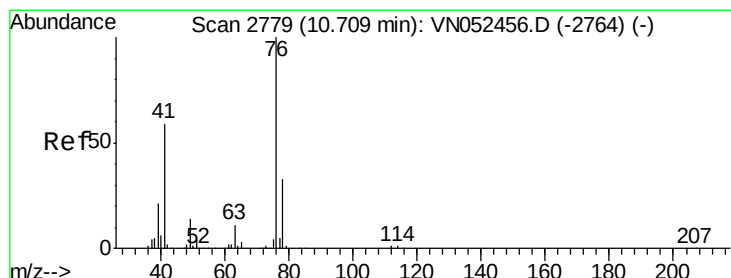
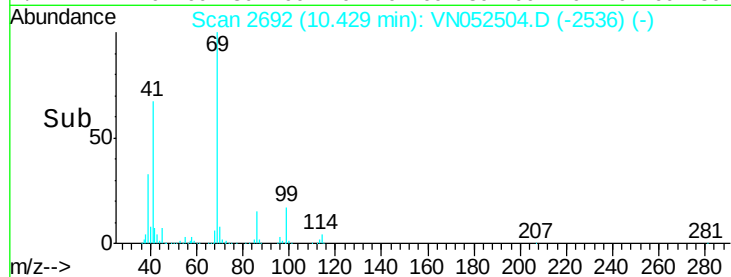
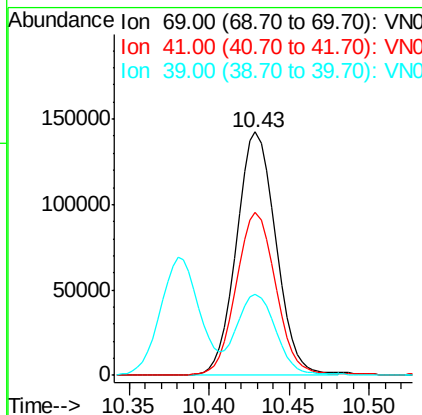
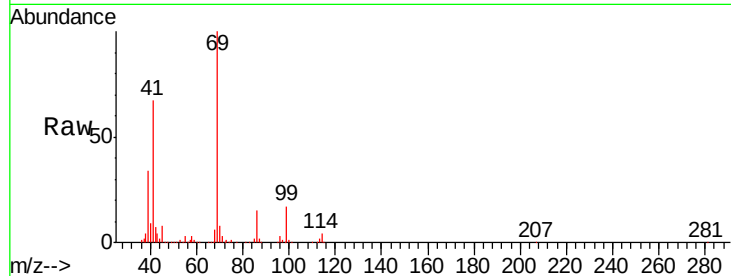
ClientSampleId :

VSTDCCC020EC

Tgt Ion:	69	Resp:	239442
Ion Ratio	Lower	Upper	
69	100		
41	66.4	34.4	103.3
39	33.0	16.4	49.2

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 20.34 ug/l

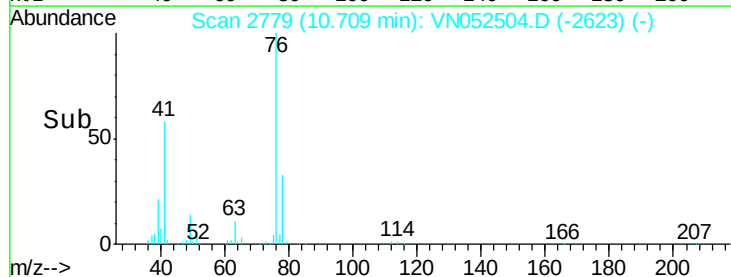
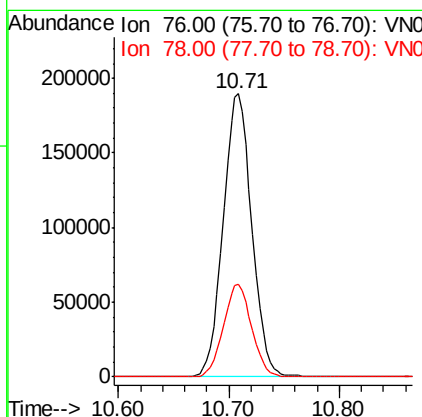
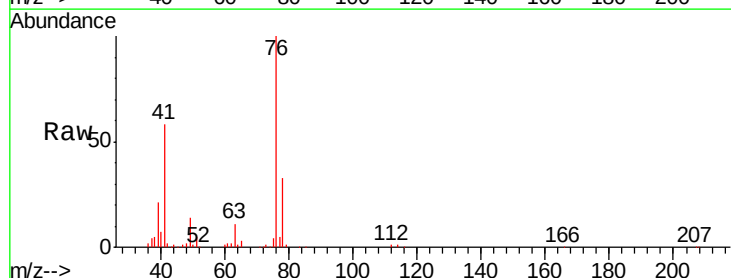
RT: 10.71 min Scan# 2779

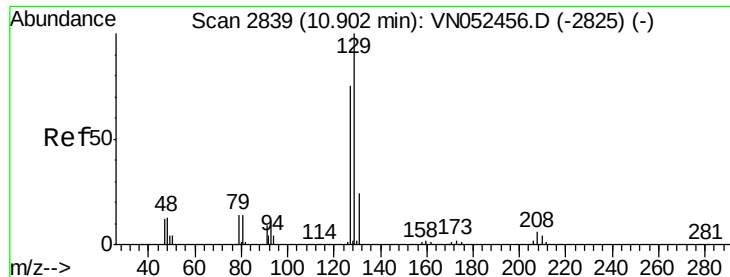
Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Tgt Ion:	76	Resp:	340034
Ion Ratio	Lower	Upper	
76	100		
78	32.3	0.0	64.8





#53

Dibromochloromethane

Concen: 19.98 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion:129 Resp: 206563

Ion Ratio Lower Upper

129 100

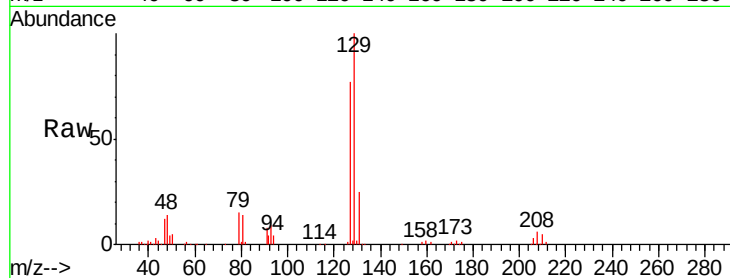
127 76.7 37.6 112.8

Manual Integrations

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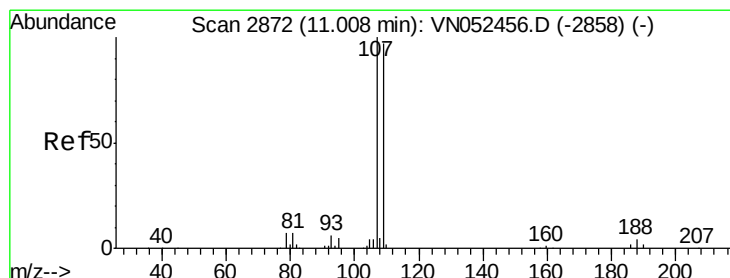
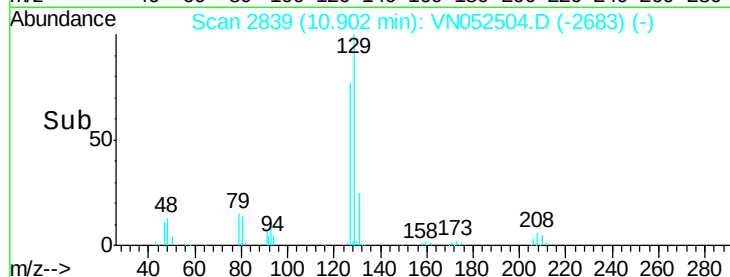
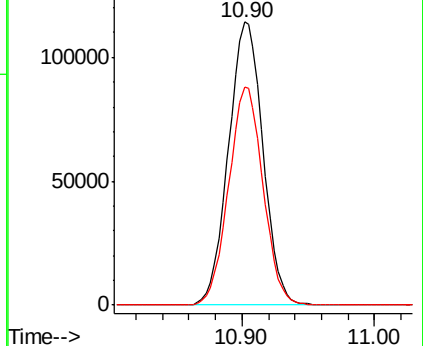
MMDadoda

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 20.95 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052504.D

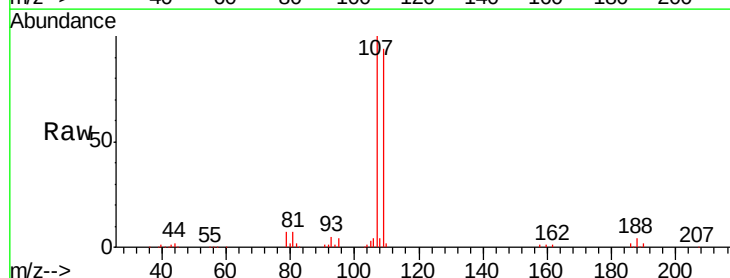
Acq: 28 Nov 2018 3:25

Tgt Ion:107 Resp: 192273

Ion Ratio Lower Upper

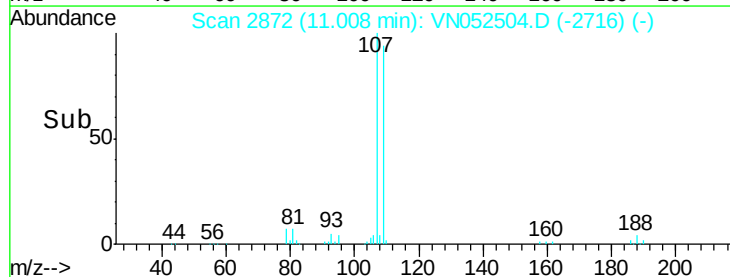
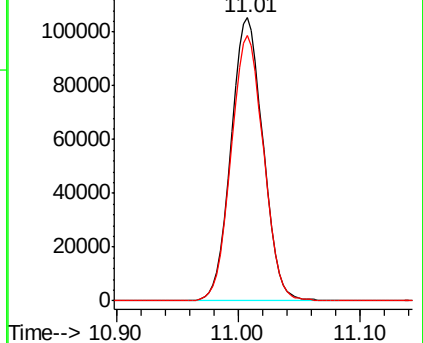
107 100

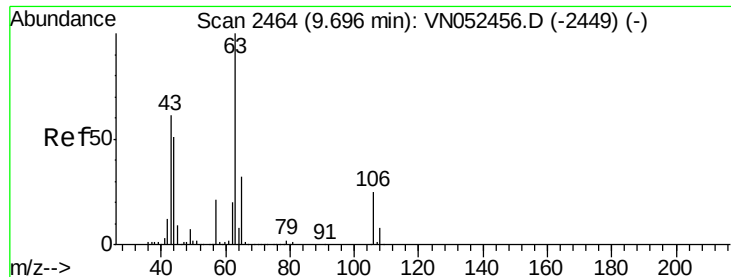
109 94.7 77.1 115.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

2-Chloroethyl vinyl ether

Concen: 92.98 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

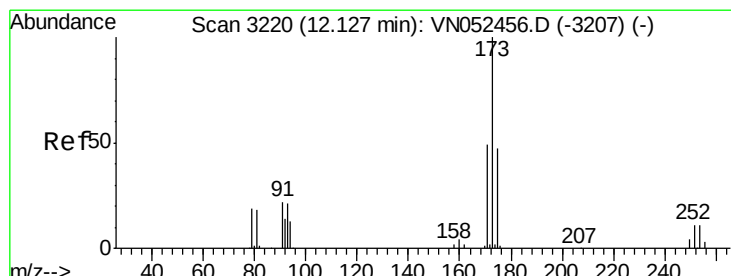
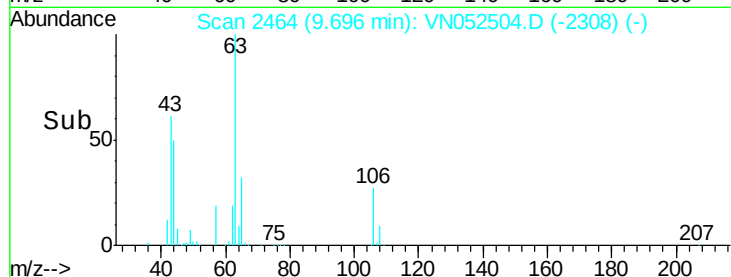
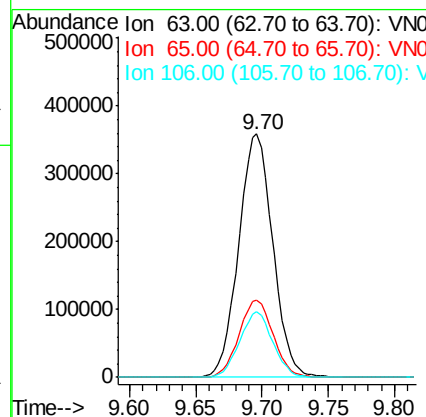
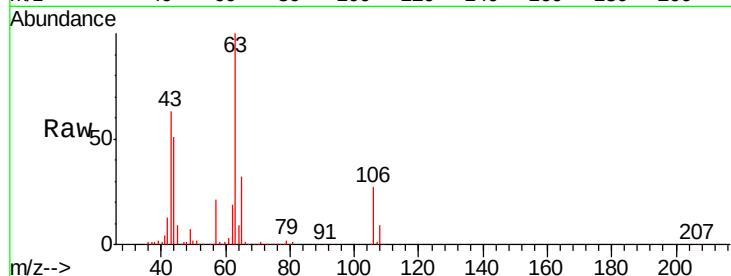
ClientSampleId :

VSTDCCC020EC

Tgt Ion:	63	Resp:	641840
Ion Ratio	Lower	Upper	
63	100		
65	31.9	25.4	38.2
106	26.3	20.4	30.6

Manual Integrations
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#56

Bromoform

Concen: 19.95 ug/l

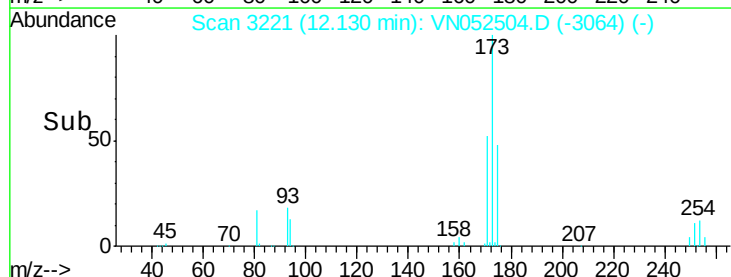
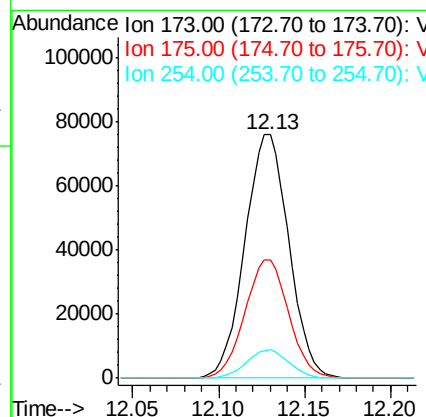
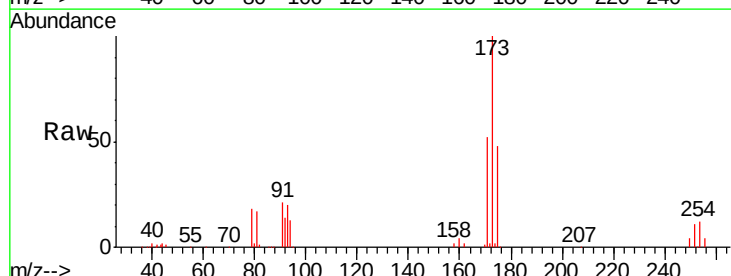
RT: 12.13 min Scan# 3221

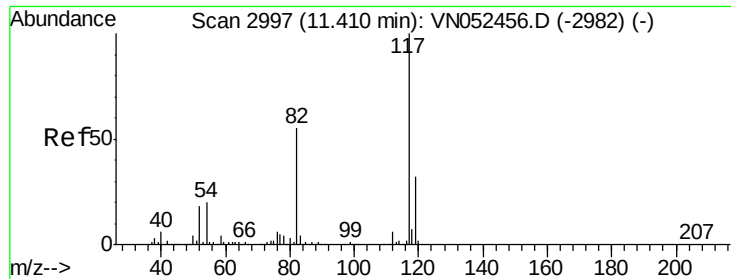
Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Tgt Ion:	173	Resp:	134838
Ion Ratio	Lower	Upper	
173	100		
175	48.3	38.7	58.1
254	11.1	8.4	12.6





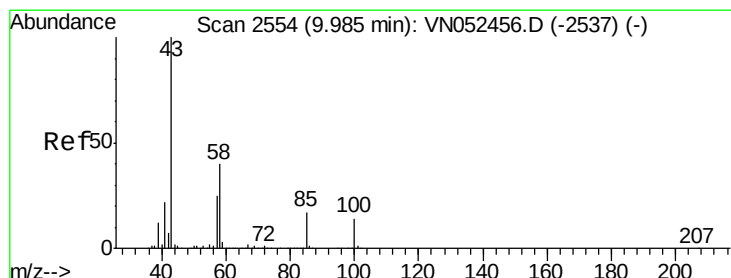
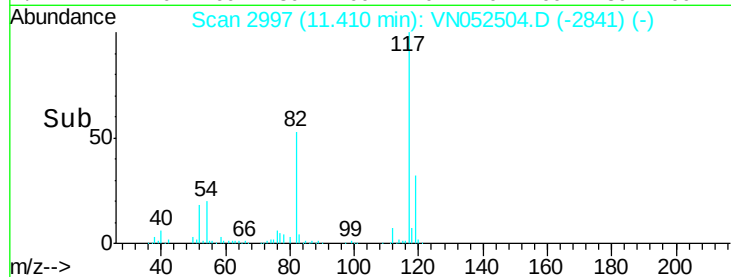
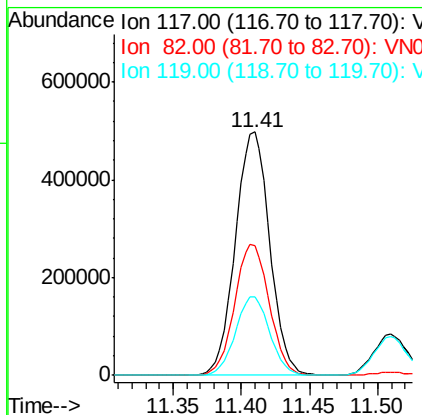
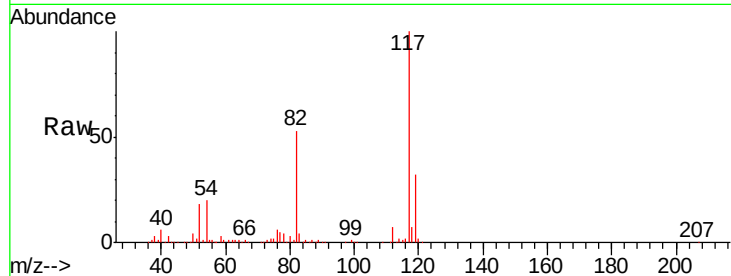
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	871146		
82	54.1	44.2	66.2	
119	32.2	25.4	38.2	

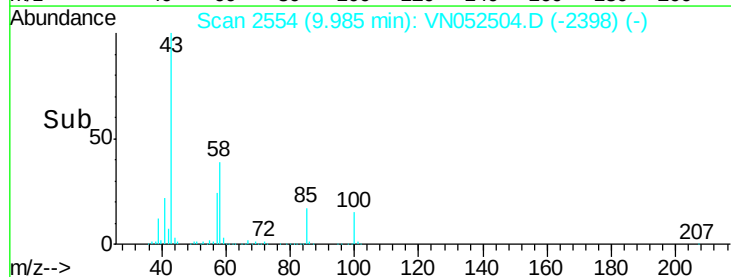
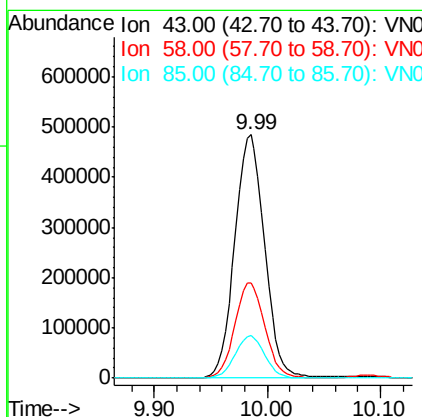
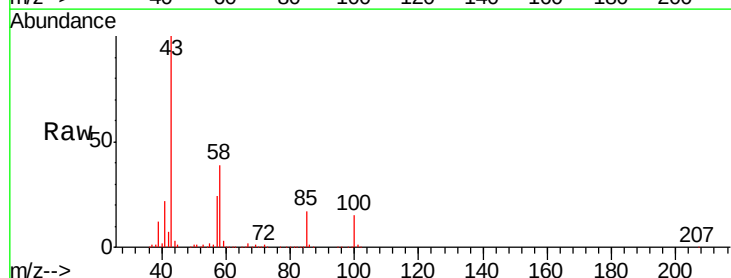
Manual Integrations
APPROVED

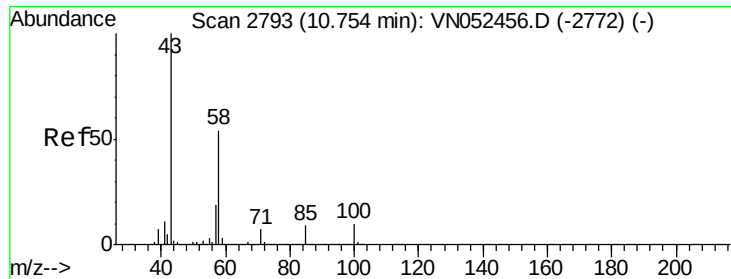
MMDadoda
11/28/2018 9:32:40 AM



#58
4-Methyl-2-Pentanone
Concen: 105.70 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	892724		
58	39.4	31.6	47.4	
85	17.4	13.3	19.9	





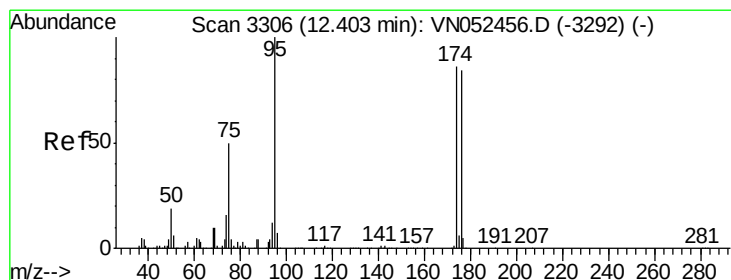
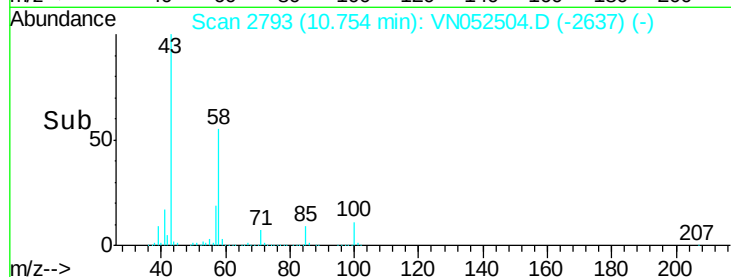
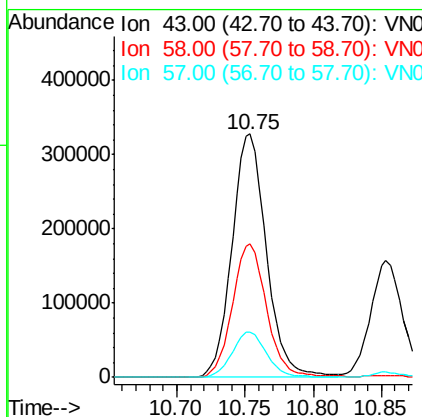
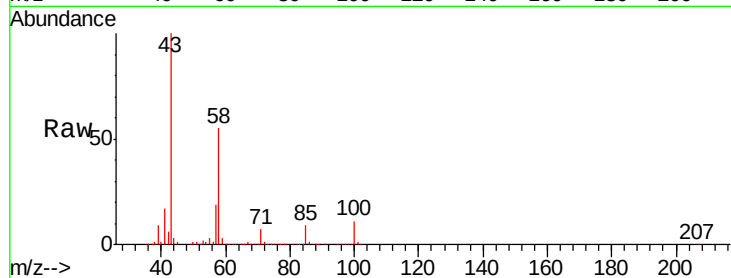
#59
2-Hexanone
Concen: 99.28 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
43	100		
58	54.8	43.2	64.8
57	18.8	14.9	22.3

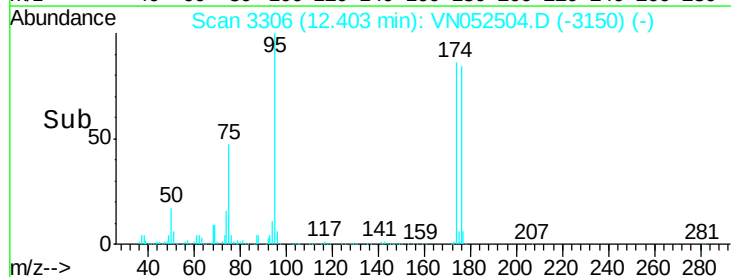
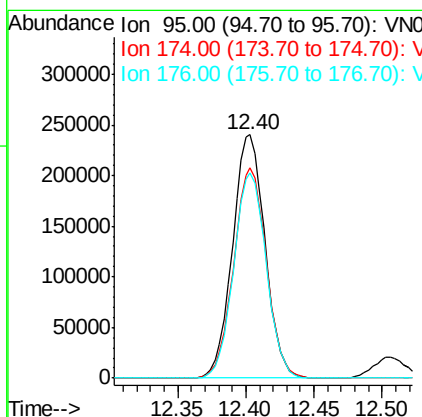
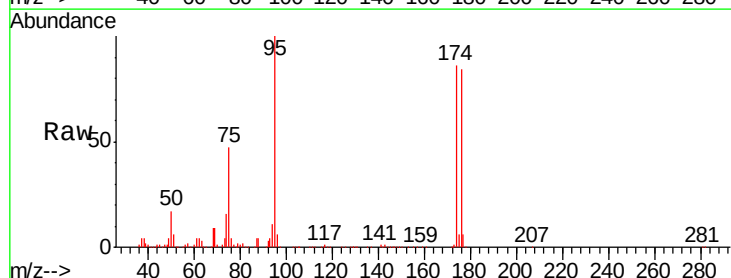
Manual Integrations
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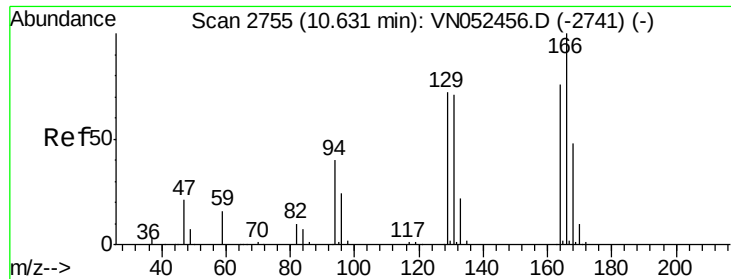
MMDadoda
11/28/2018 9:32:40 AM



#60
4-Bromofluorobenzene
Concen: 99.28 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.0	67.9	101.9
176	84.4	66.4	99.6





#61

Tetrachloroethene

Concen: 21.60 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 164 Resp: 231741
Ion Ratio Lower Upper

164 100

166 128.2 104.6 157.0

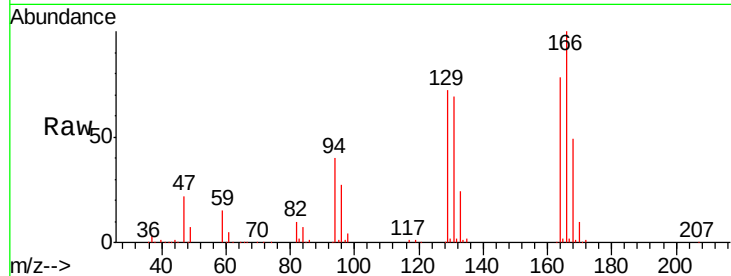
129 91.8 75.3 112.9

131 88.4 74.3 111.5

Manual Integrations
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MMDadoda

11/28/2018 9:32:40 AM

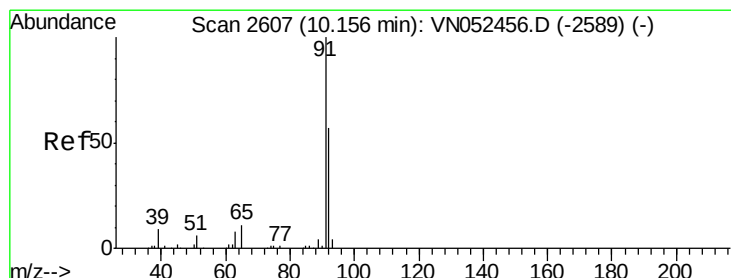
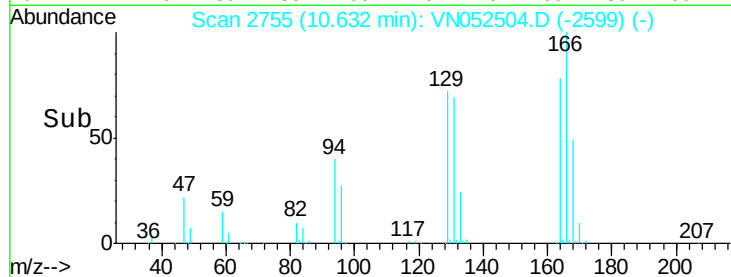
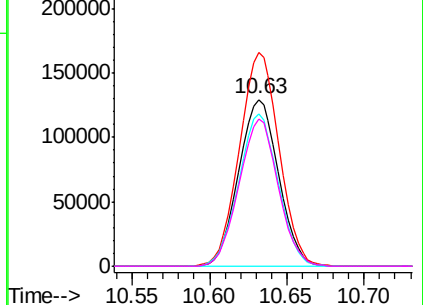


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 20.42 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

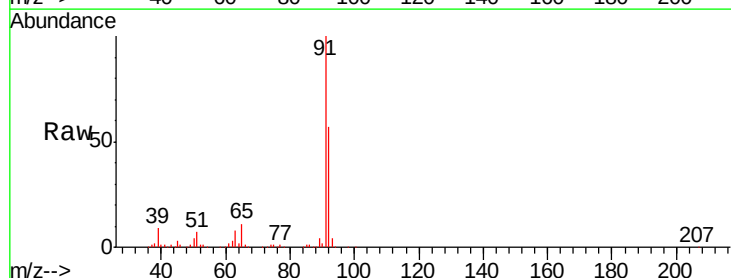
Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Tgt Ion: 91 Resp: 980629
Ion Ratio Lower Upper

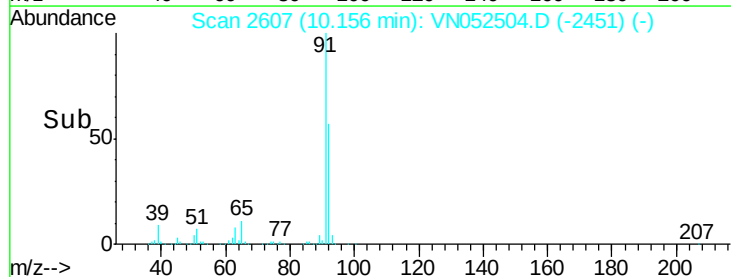
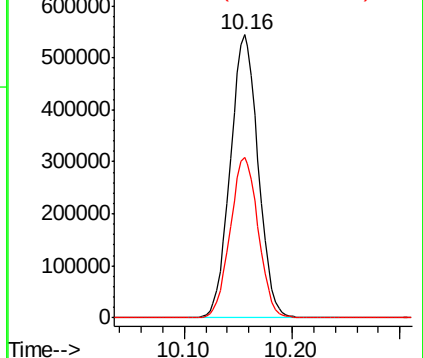
91 100

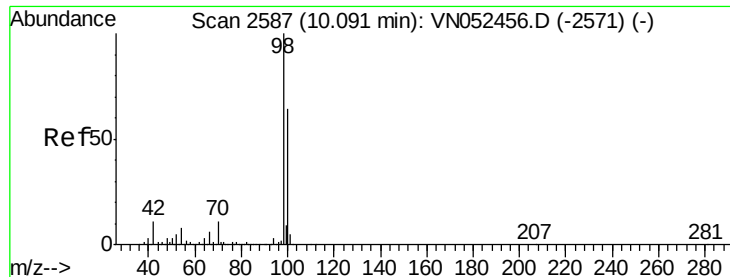
92 57.2 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 20.42 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 98 Resp: 1215235

Ion Ratio Lower Upper

98 100

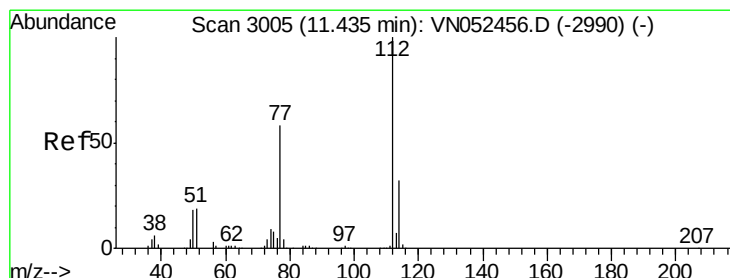
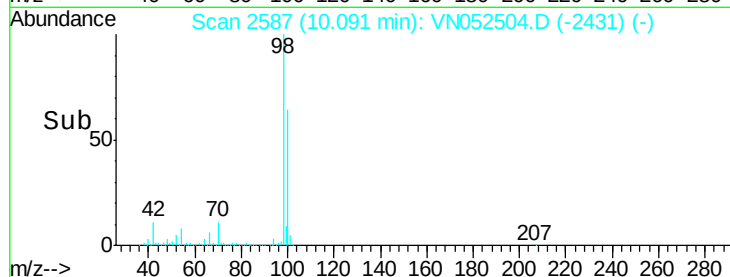
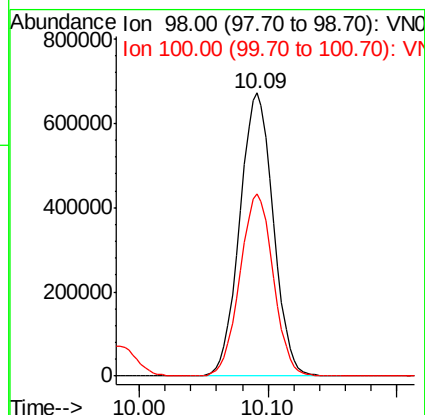
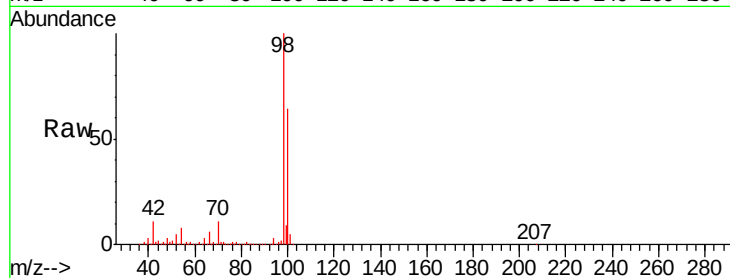
100 63.8 51.1 76.7

Manual Integrations

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#64

Chlorobenzene

Concen: 20.34 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN052504.D

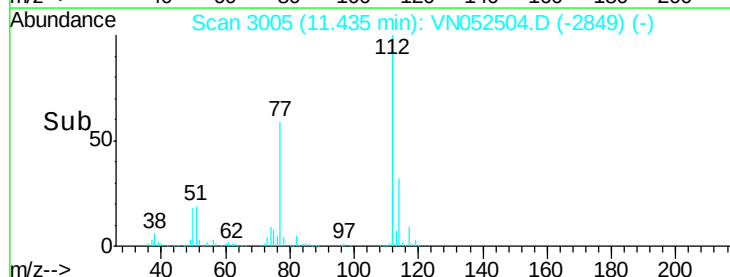
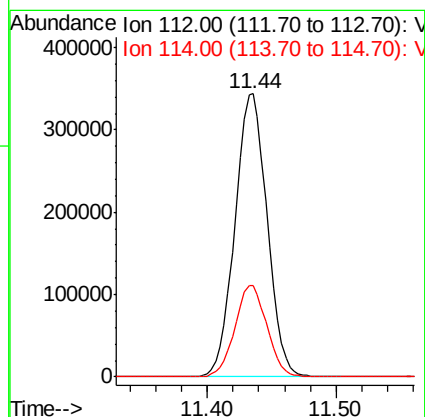
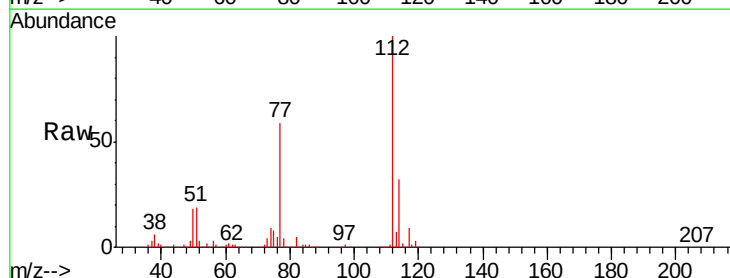
Acq: 28 Nov 2018 3:25

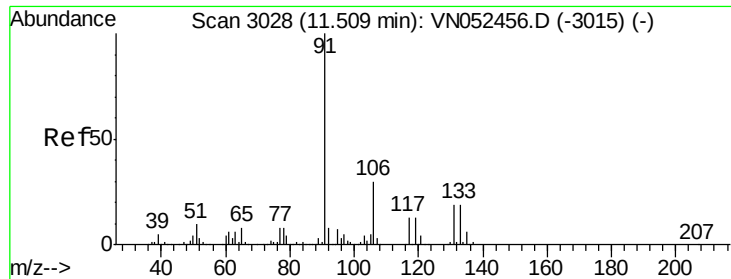
Tgt Ion: 112 Resp: 596213

Ion Ratio Lower Upper

112 100

114 32.1 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 20.47 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

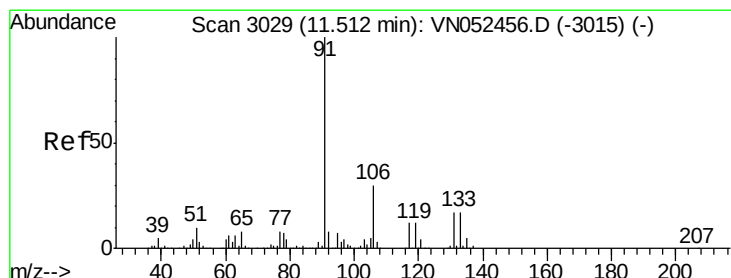
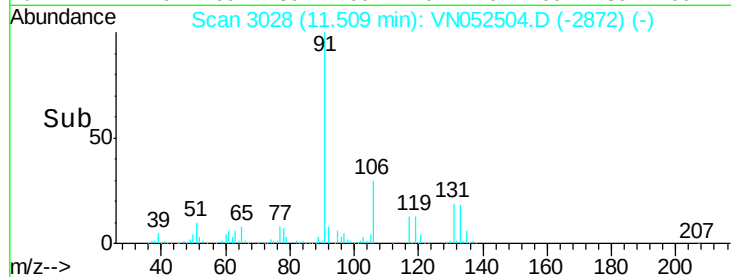
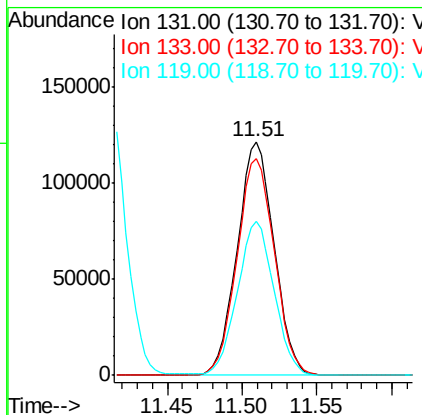
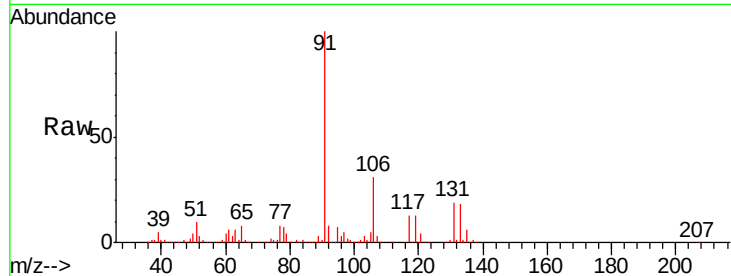
ClientSampleId :

VSTDCCC020EC

Tgt Ion:	131	Resp:	208224
Ion Ratio	Lower	Upper	
131	100		
133	94.2	0.0	193.4
119	65.9	0.0	133.0

Manual Integrations
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11/28/2018 9:32:40 AM



#66

Ethyl Benzene

Concen: 20.18 ug/l

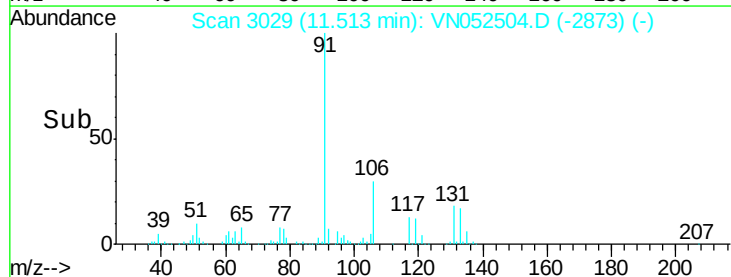
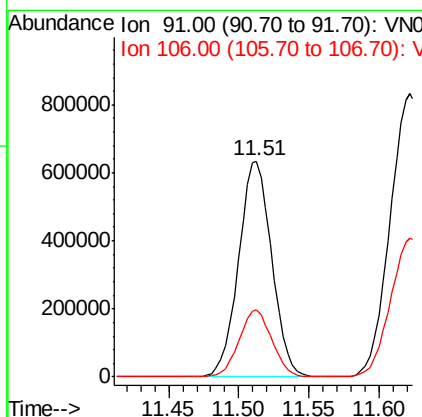
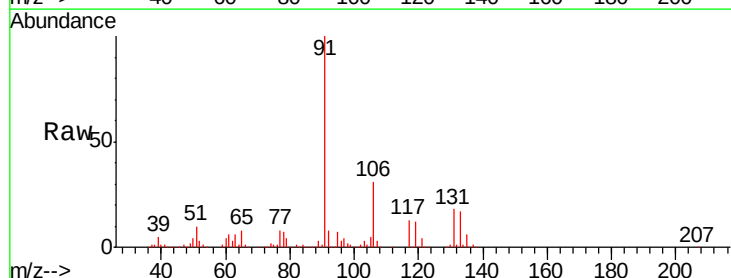
RT: 11.51 min Scan# 3029

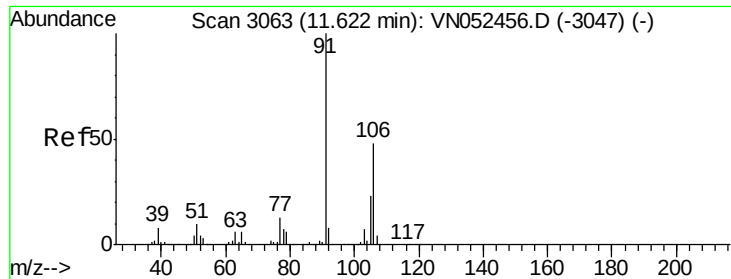
Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Tgt Ion:	91	Resp:	1044305
Ion Ratio	Lower	Upper	
91	100		
106	30.9	24.3	36.5





#67

m/p-Xylenes

Concen: 40.85 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion:106 Resp: 787738

Ion Ratio Lower Upper

106 100

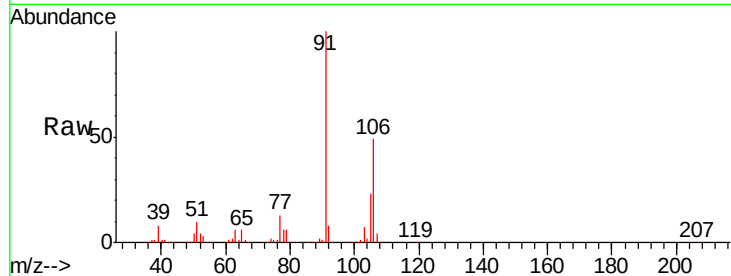
91 204.5 163.9 245.9

Manual Integrations

APPROVED

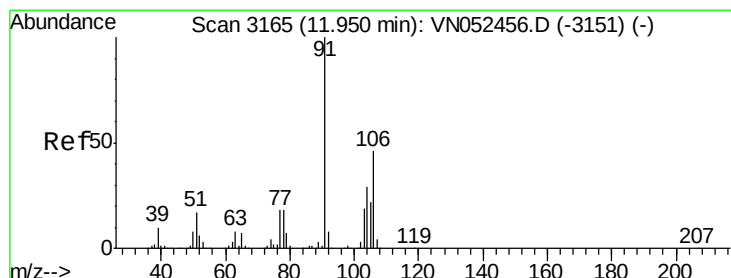
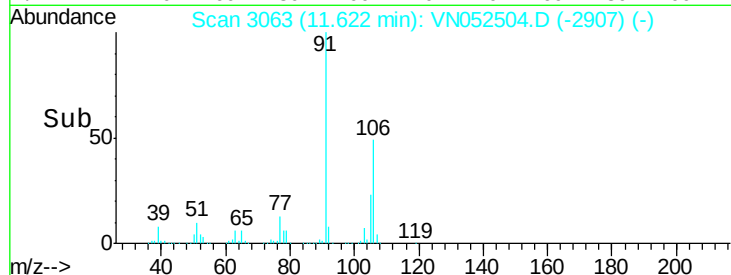
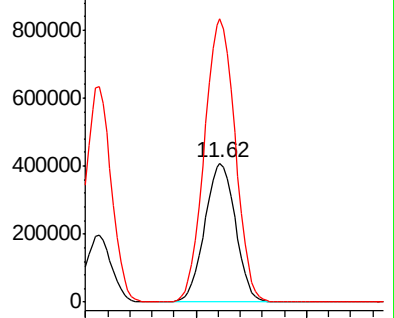
MMDadoda

11/28/2018 9:32:40 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 20.68 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN052504.D

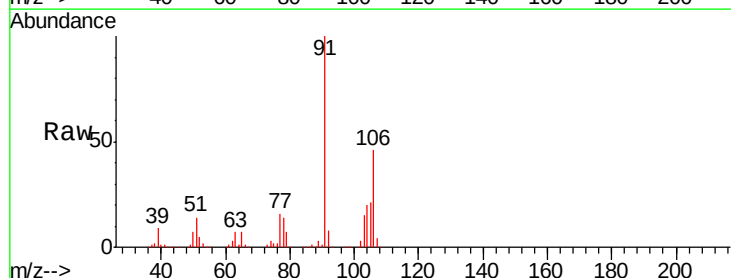
Acq: 28 Nov 2018 3:25

Tgt Ion:106 Resp: 387101

Ion Ratio Lower Upper

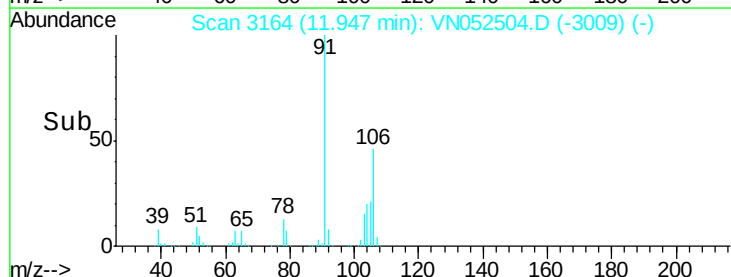
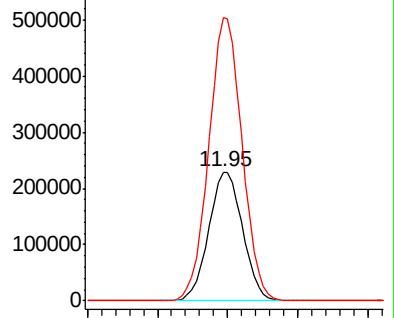
106 100

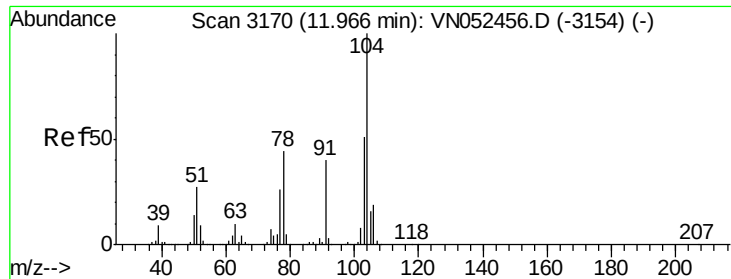
91 215.2 107.8 323.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





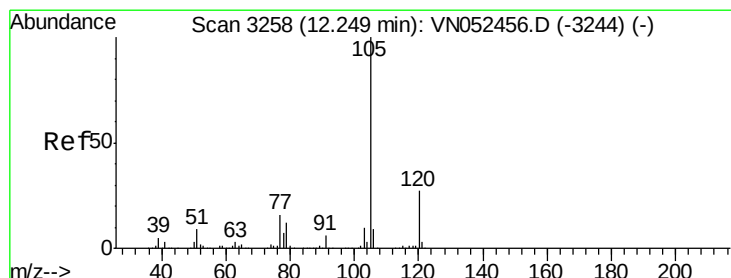
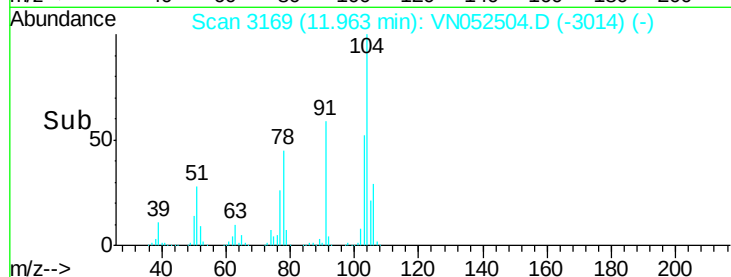
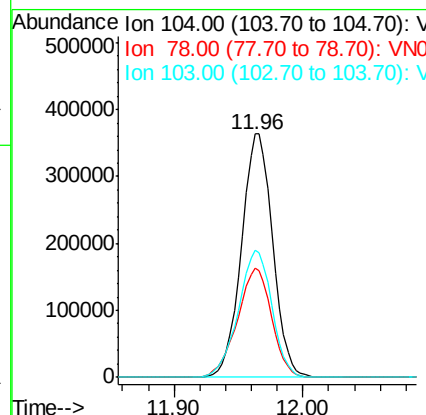
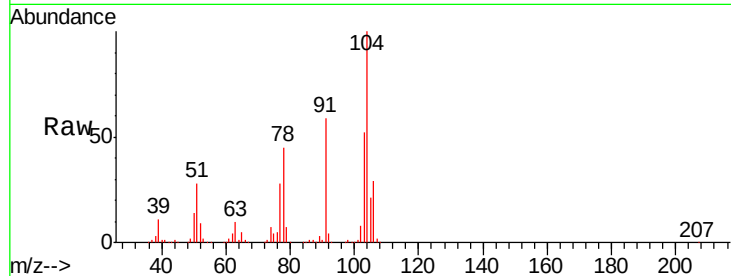
#69
Styrene
Concen: 20.28 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.0	39.3	58.9
103	56.1	44.6	66.8

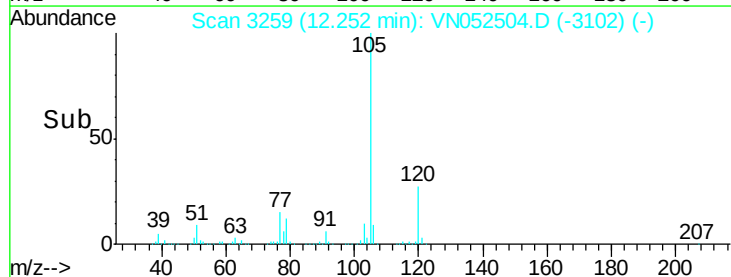
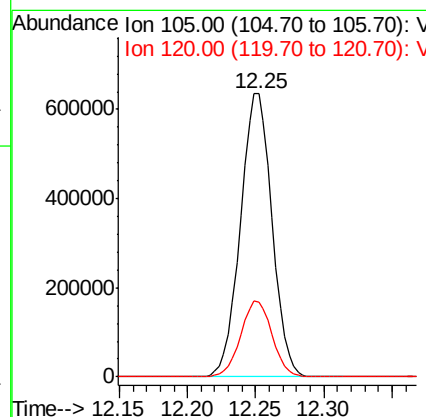
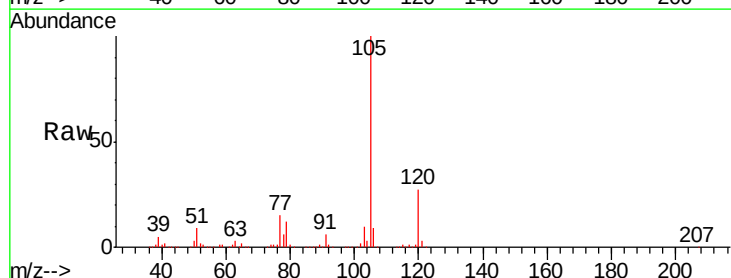
Manual Integrations
APPROVED

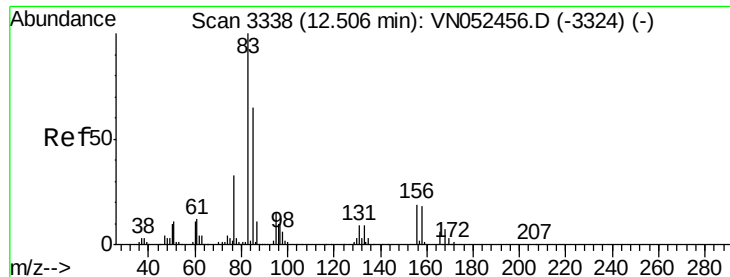
MMDadoda
11/28/2018 9:32:40 AM



#70
Isopropylbenzene
Concen: 20.51 ug/l
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	18.6	34.6





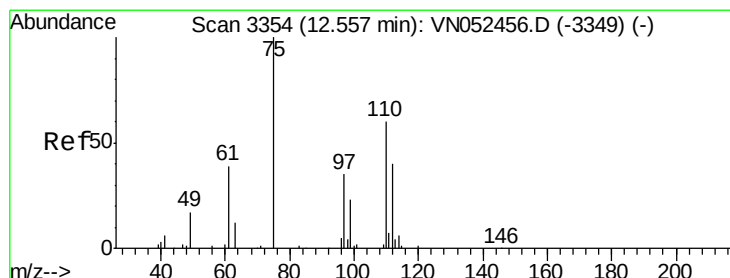
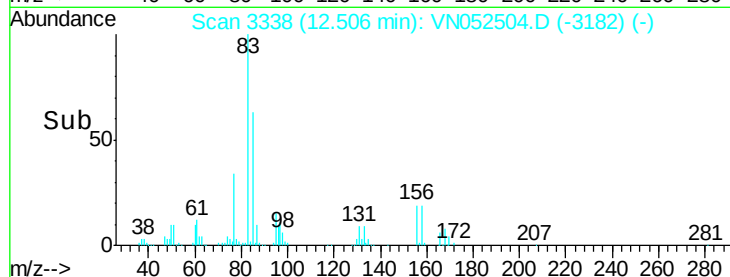
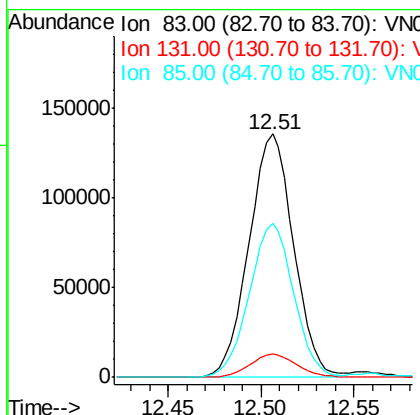
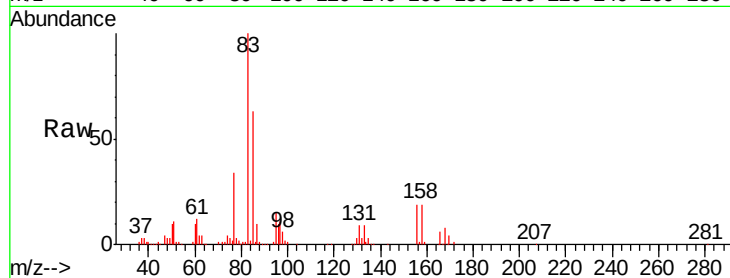
#71
 1,1,2,2-Tetrachloroethane
 Concen: 21.04 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	227922		
131	10.1	4.9	14.6	
85	62.9	32.2	96.6	

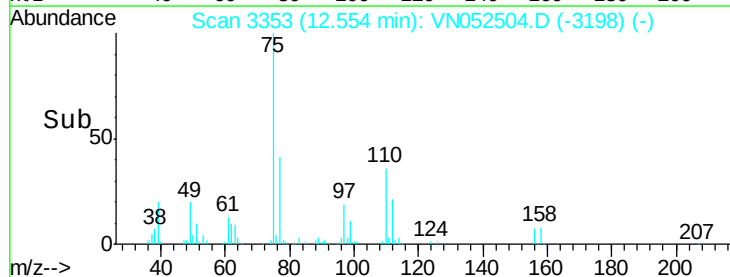
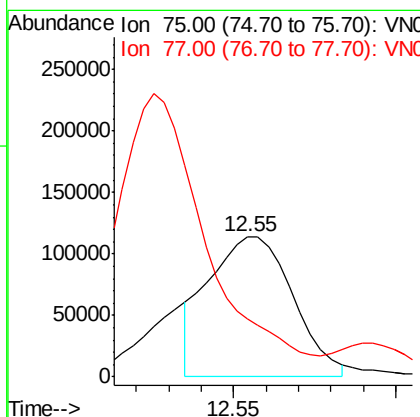
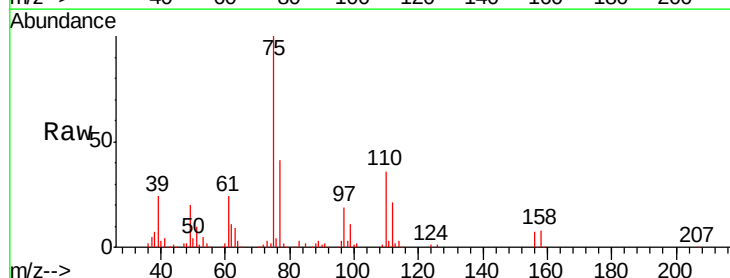
Manual Integrations
 APPROVED

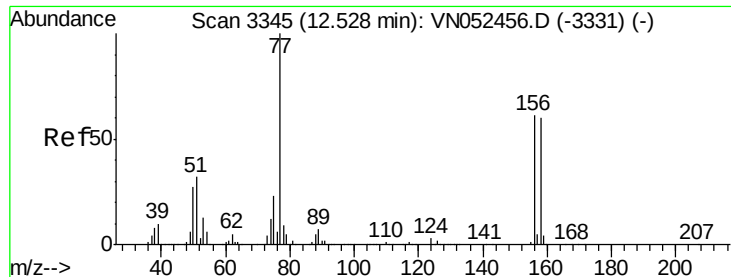
MMDadoda
 11/28/2018 9:32:40 AM



#72
 1,2,3-Trichloropropane
 Concen: 22.11 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	205558		
77	221.5	0.0	514.8	





#73

Bromobenzene

Concen: 20.56 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

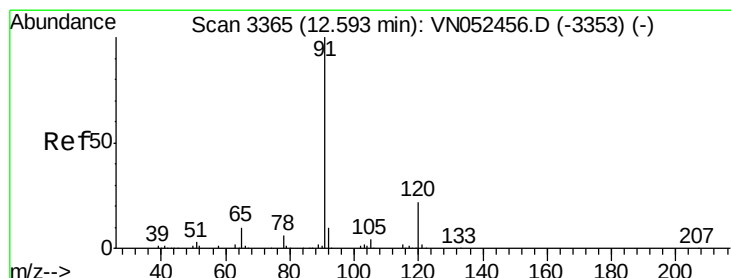
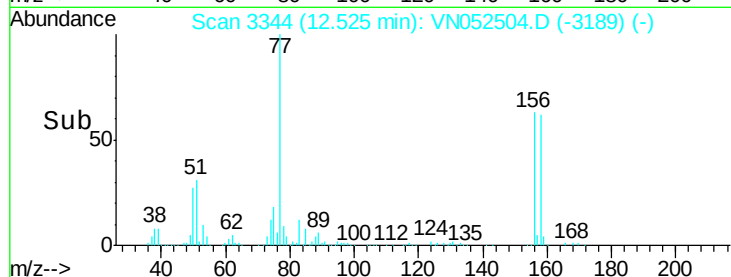
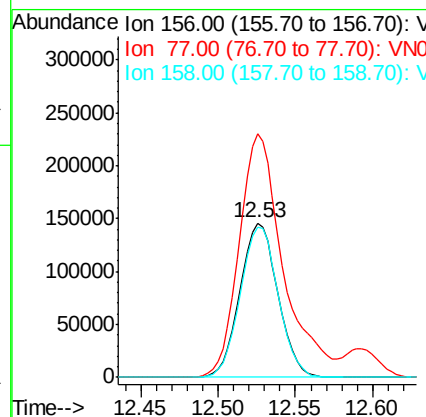
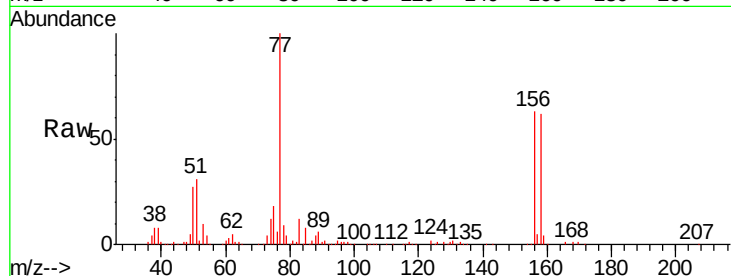
ClientSampleId :

VSTDCCC020EC

Tgt Ion:	156	Resp:	247605
Ion Ratio	Lower	Upper	
156	100		
77	183.9	0.0	382.6
158	98.0	0.0	196.8

Manual Integrations
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#74

n-propylbenzene

Concen: 19.72 ug/l

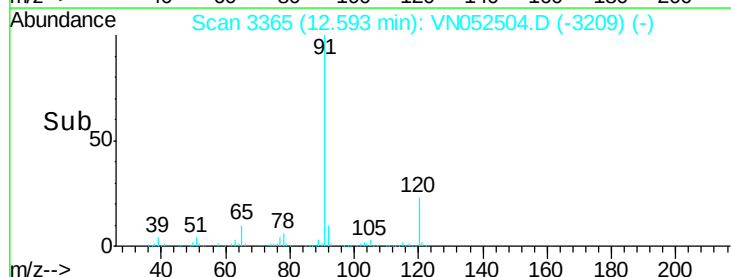
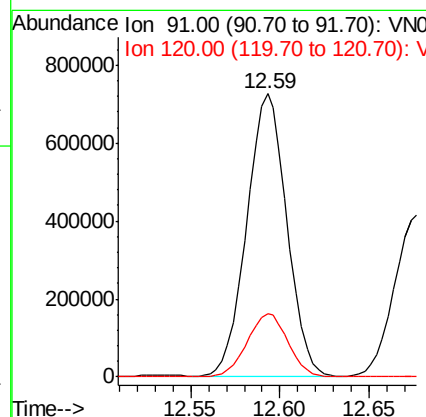
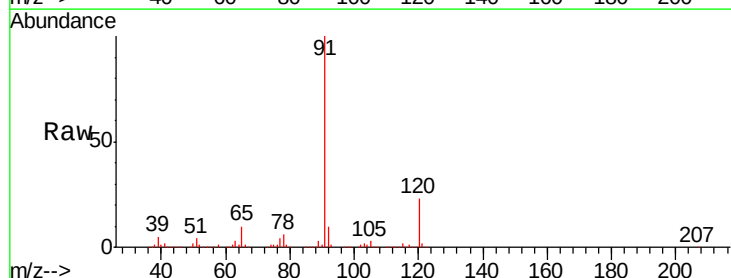
RT: 12.59 min Scan# 3365

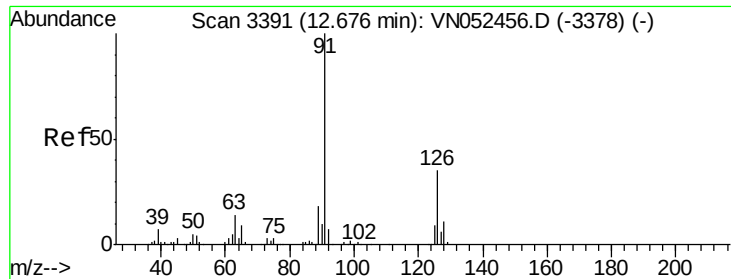
Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Tgt Ion:	91	Resp:	1144012
Ion Ratio	Lower	Upper	
91	100		
120	22.8	0.0	44.6





#75

2-Chlorotoluene

Concen: 20.29 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tgt Ion: 91 Resp: 683486

Ion Ratio Lower Upper

91 100

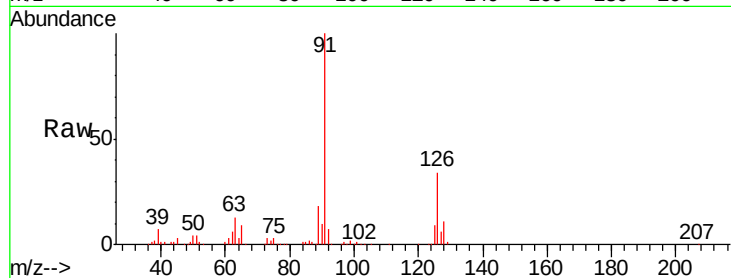
126 34.1 0.0 68.4

Manual Integrations

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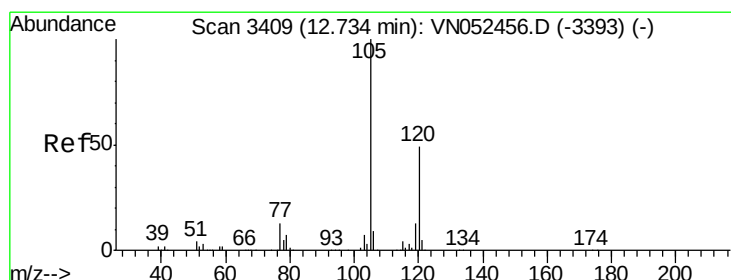
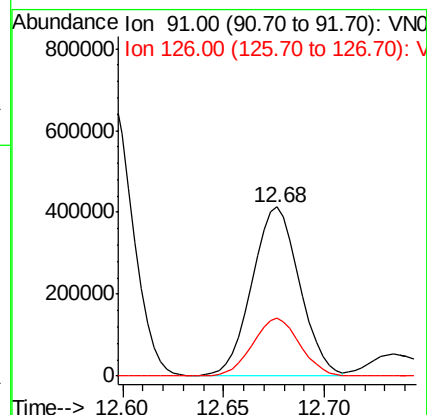
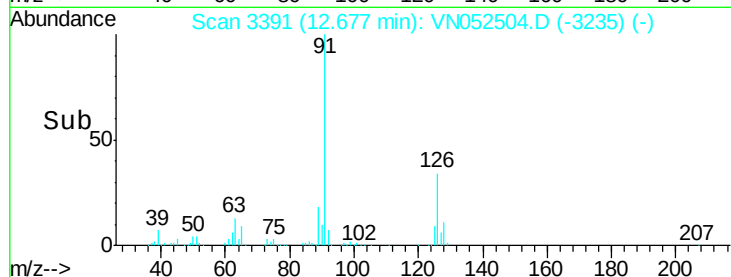
MMDadoda

11/28/2018 9:32:40 AM



Abundance Ion 91.00 (90.70 to 91.70): VN052504.D (-3235) (-)

Ion 126.00 (125.70 to 126.70): VN052504.D (-3235) (-)



#76

1,3,5-Trimethylbenzene

Concen: 20.50 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052504.D

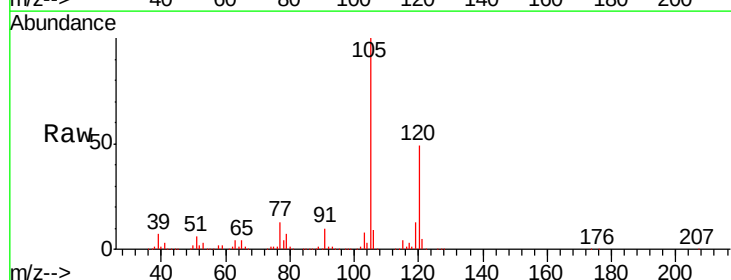
Acq: 28 Nov 2018 3:25

Tgt Ion: 105 Resp: 824446

Ion Ratio Lower Upper

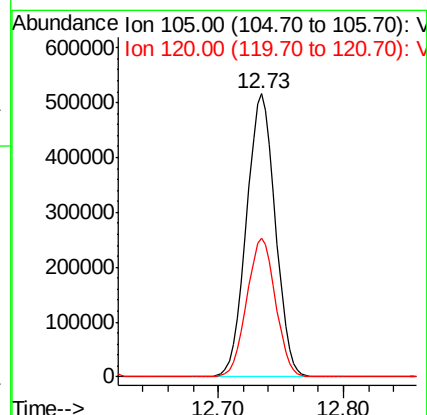
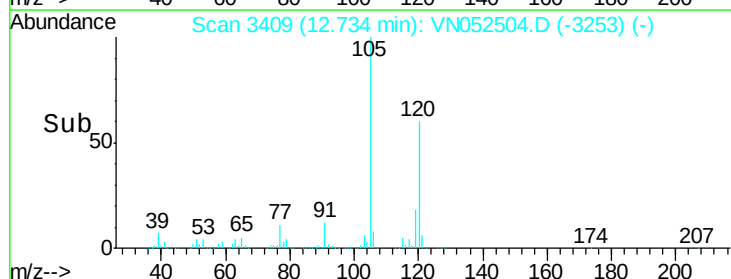
105 100

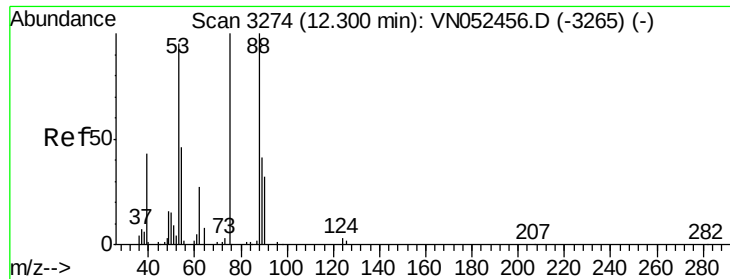
120 48.8 0.0 97.4



Abundance Ion 105.00 (104.70 to 105.70): VN052504.D (-3253) (-)

Ion 120.00 (119.70 to 120.70): VN052504.D (-3253) (-)





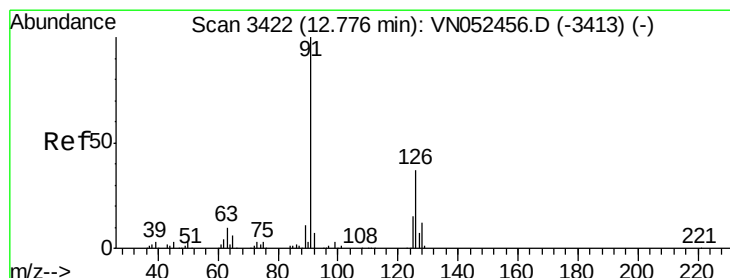
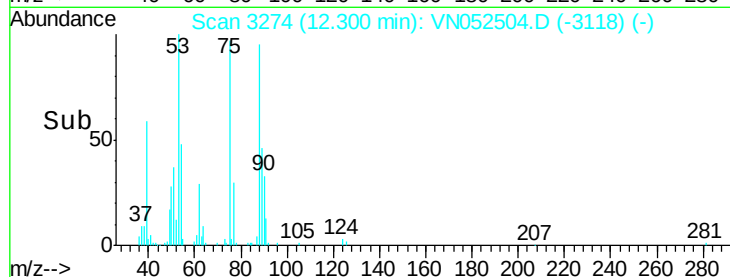
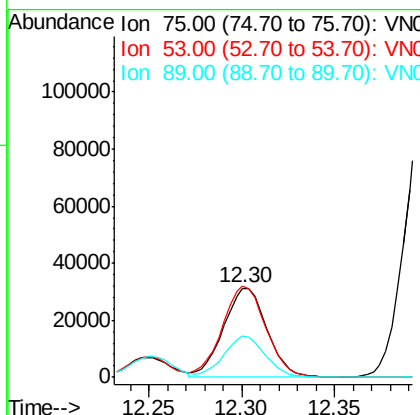
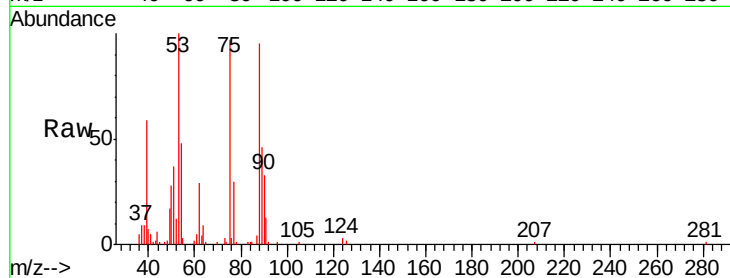
#77
t-1,4-Dichloro-2-butene
Concen: 17.46 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
75	100		
53	102.7	48.5	145.6
89	47.3	21.7	65.1

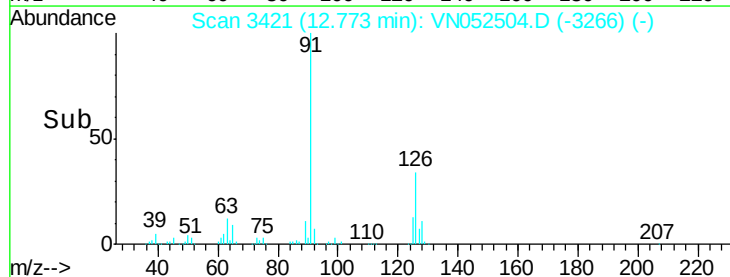
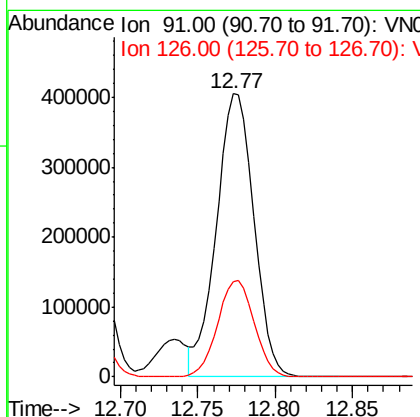
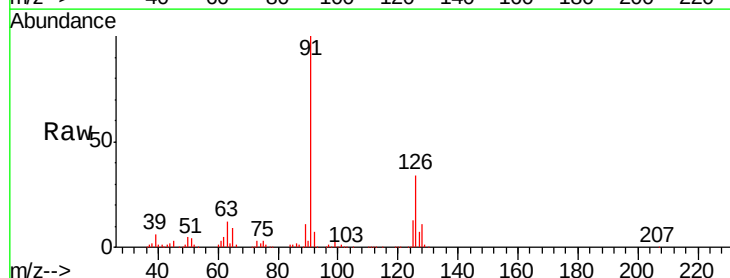
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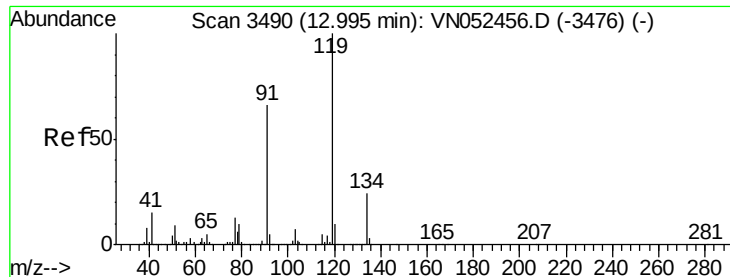
MMDadoda
11/28/2018 9:32:40 AM



#78
4-Chlorotoluene
Concen: 20.28 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.4	0.0	68.2





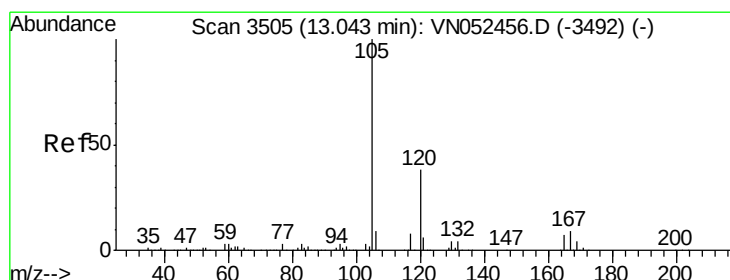
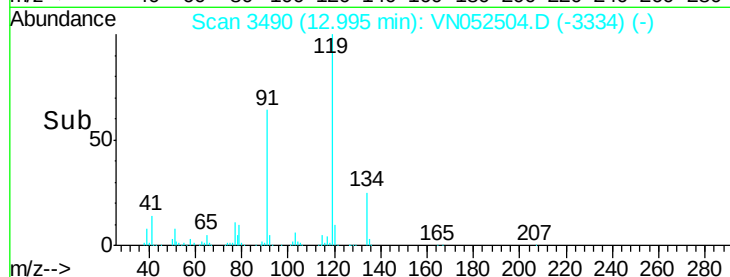
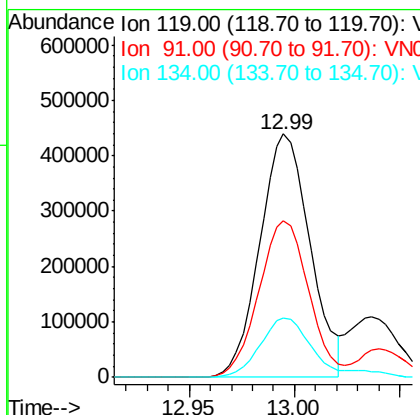
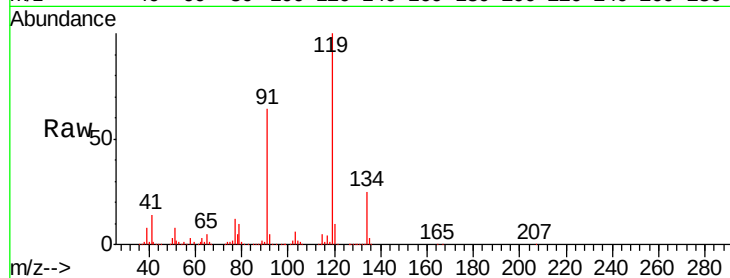
#79
 tert-butylbenzene
 Concen: 20.81 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion	Ratio	Resp Lower	Resp Upper
119	100		
91	64.0	0.0	129.8
134	24.6	0.0	52.2

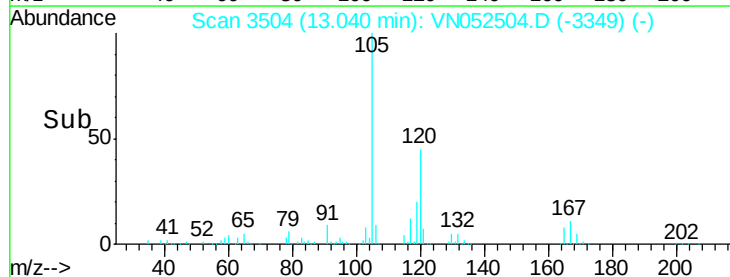
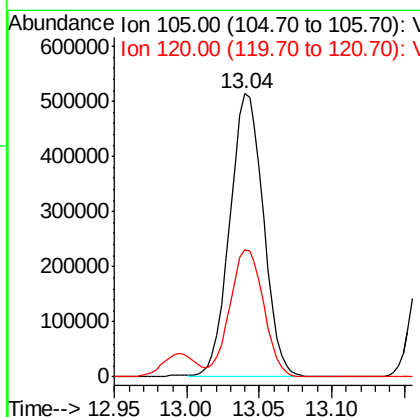
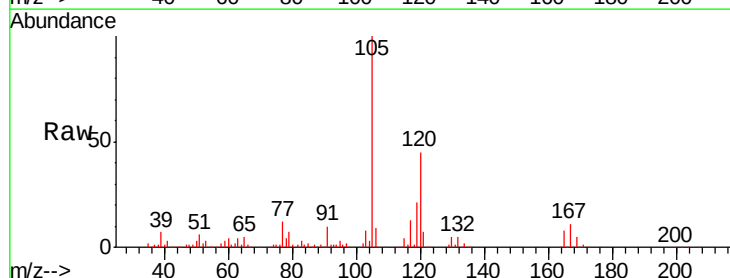
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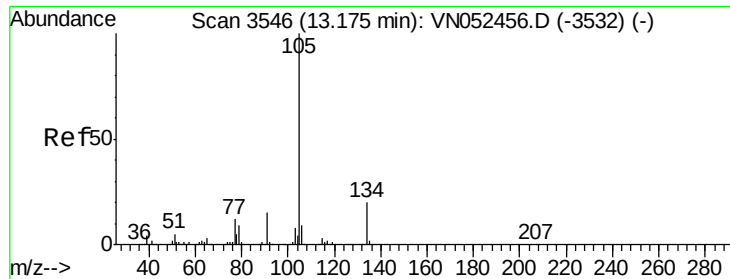
MMDadoda
 11/28/2018 9:32:40 AM



#80
 1,2,4-Trimethylbenzene
 Concen: 20.48 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	45.3	0.0	91.0





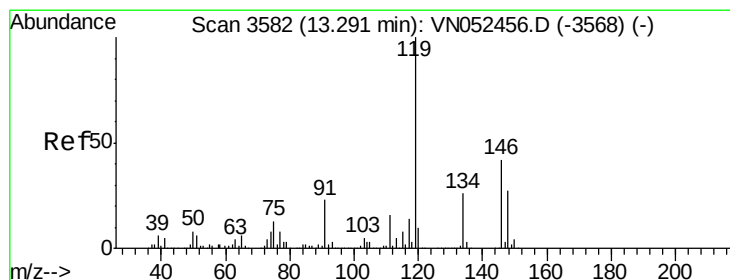
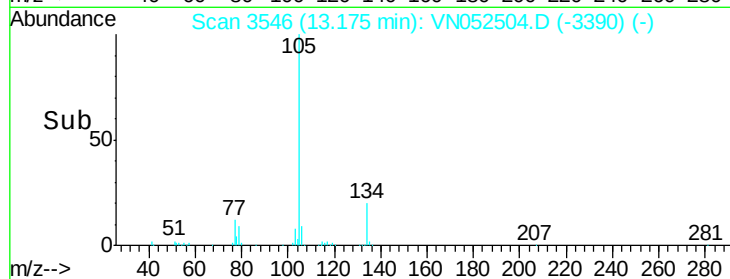
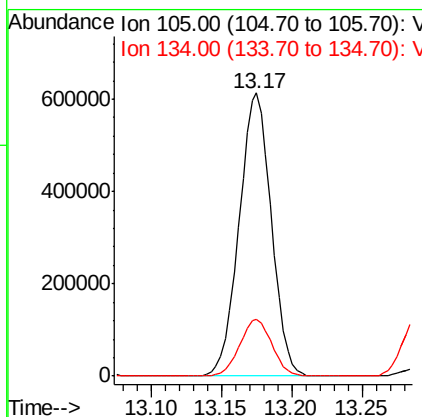
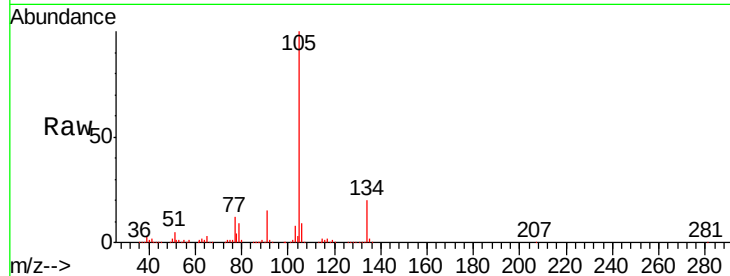
#81
 sec-Butylbenzene
 Concen: 20.05 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.1	0.0	40.4

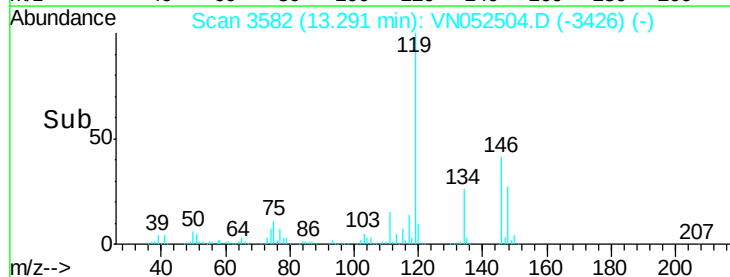
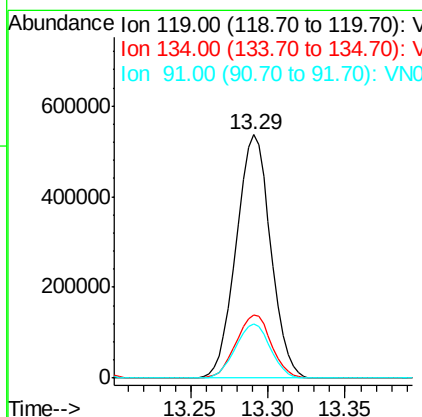
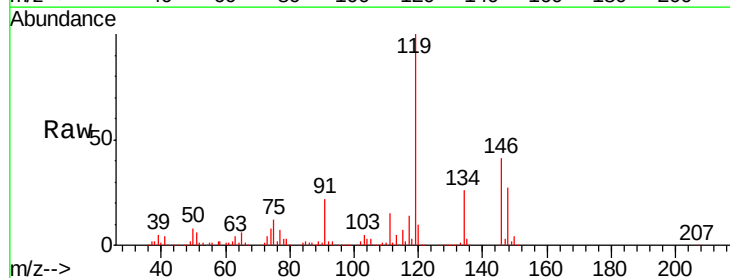
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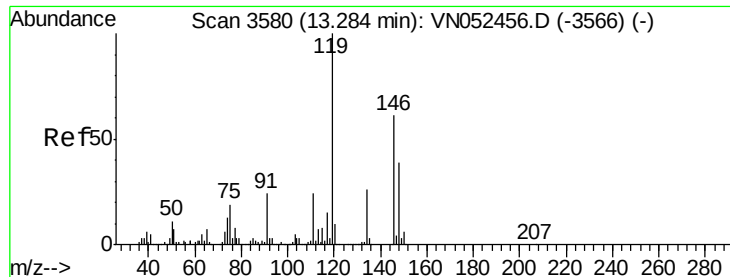
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 11/28/2018 9:32:40 AM



#82
 p-Isopropyltoluene
 Concen: 19.98 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.4	0.0	52.6
91	22.6	0.0	46.2





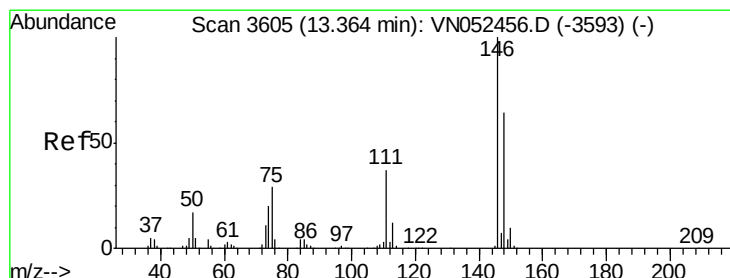
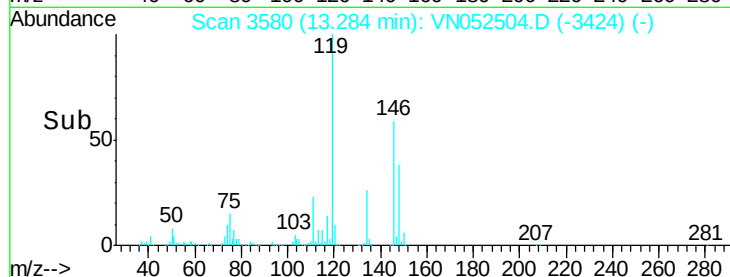
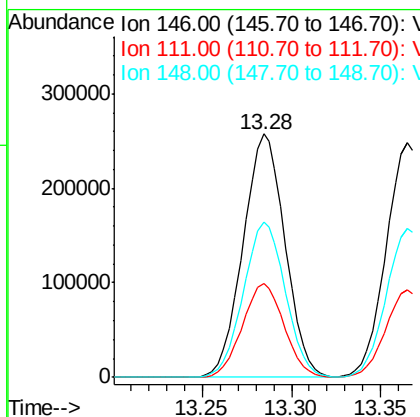
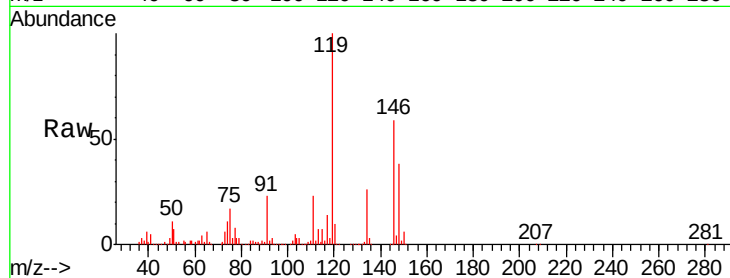
#83
 1,3-Dichlorobenzene
 Concen: 20.00 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.7	59.0
148	63.9	32.3	96.8

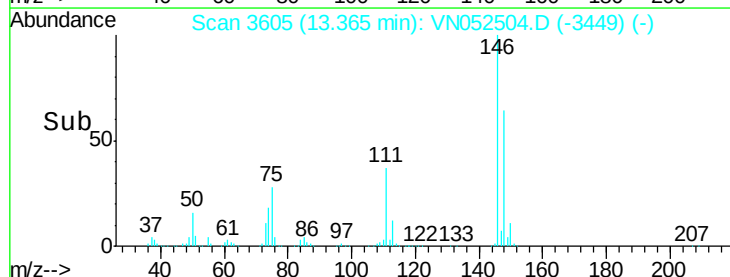
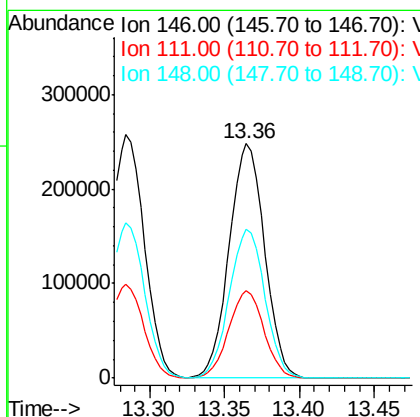
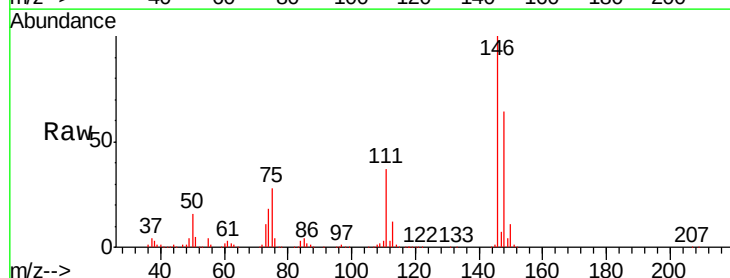
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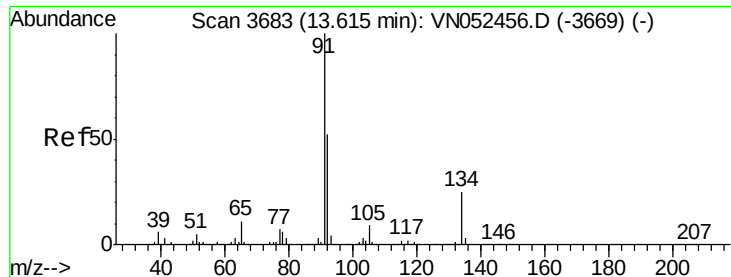
MMDadoda
 11/28/2018 9:32:40 AM



#84
 1,4-Dichlorobenzene
 Concen: 20.01 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.8	56.3
148	63.8	32.5	97.4





#85

n-Butylbenzene

Concen: 18.30 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

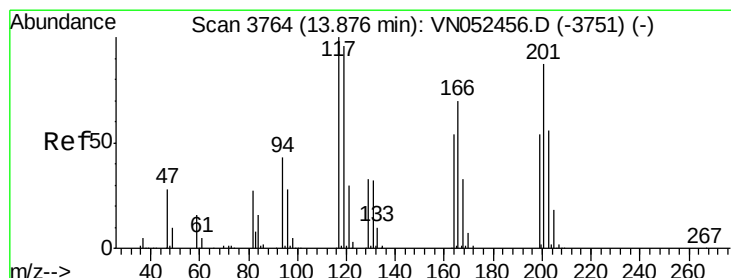
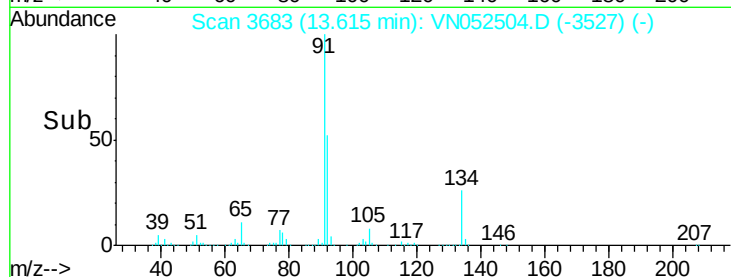
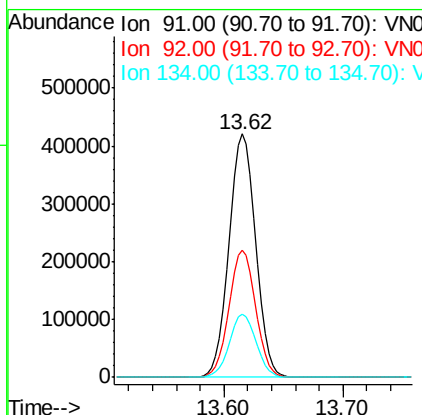
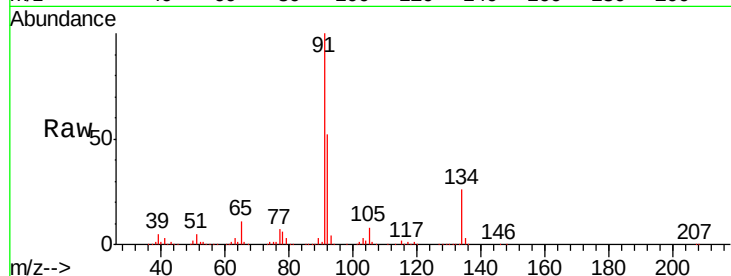
ClientSampleId :

VSTDCCC020EC

Tgt Ion:	91	Resp:	652992
Ion	Ratio	Lower	Upper
91	100		
92	52.2	0.0	104.2
134	26.1	0.0	50.6

Manual Integrations
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#86

Hexachloroethane

Concen: 19.43 ug/l

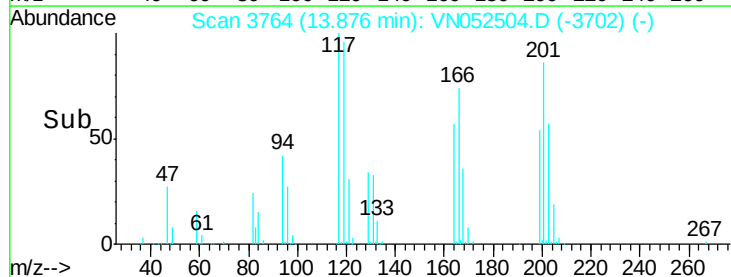
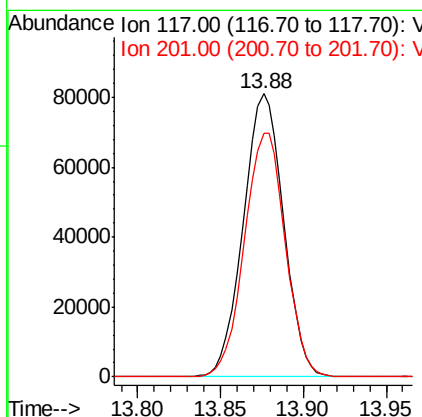
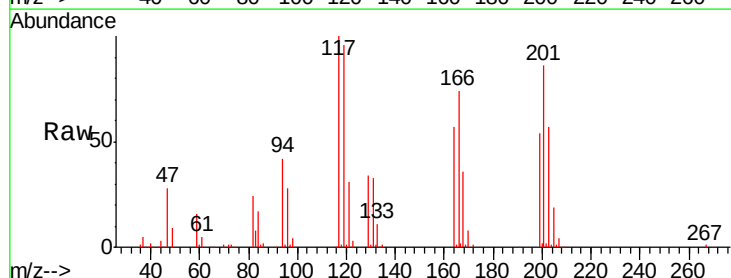
RT: 13.88 min Scan# 3764

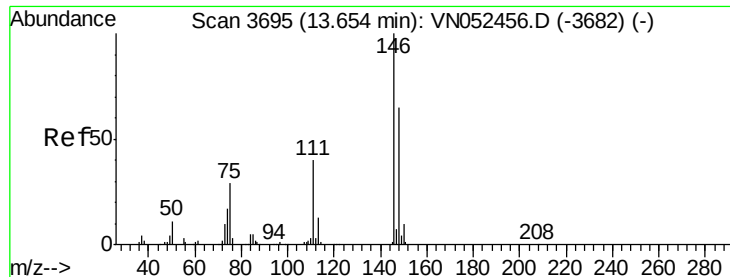
Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Tgt Ion:	117	Resp:	136762
Ion	Ratio	Lower	Upper
117	100		
201	87.4	43.8	131.3





#87

1,2-Dichlorobenzene

Concen: 20.73 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Instrument :

MSVOA_N

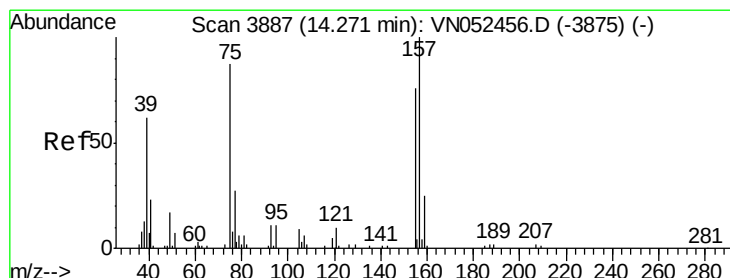
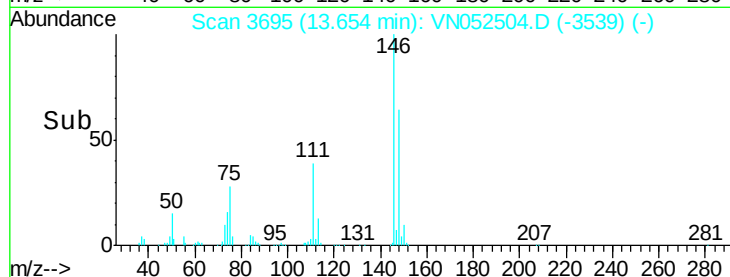
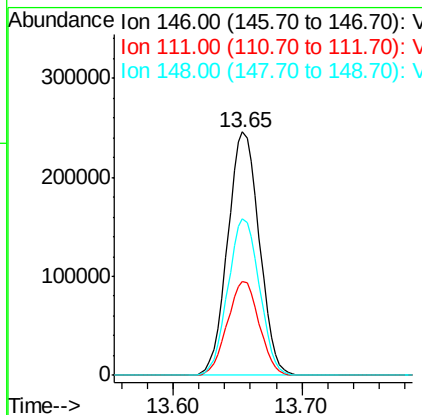
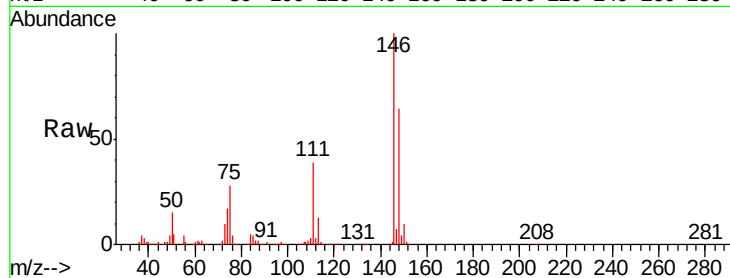
ClientSampleId :

VSTDCCC020EC

Tgt Ion:	146	Resp:	417768
Ion Ratio	Lower	Upper	
146	100		
111	38.7	20.3	60.8
148	64.3	32.1	96.5

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#88

1,2-Dibromo-3-Chloropropane

Concen: 20.34 ug/l

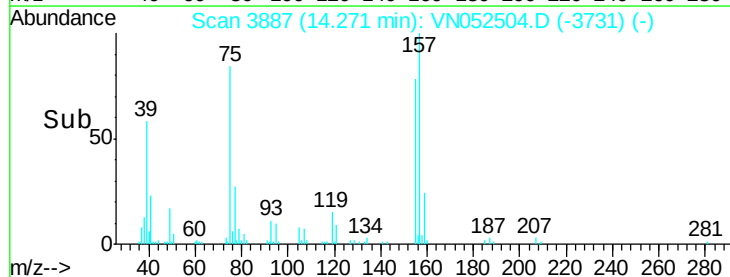
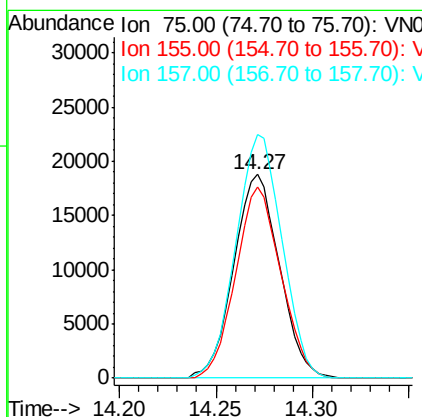
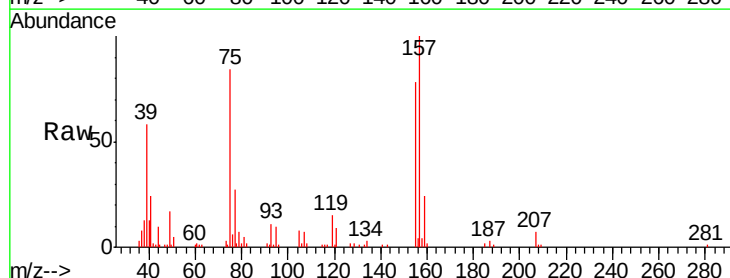
RT: 14.27 min Scan# 3887

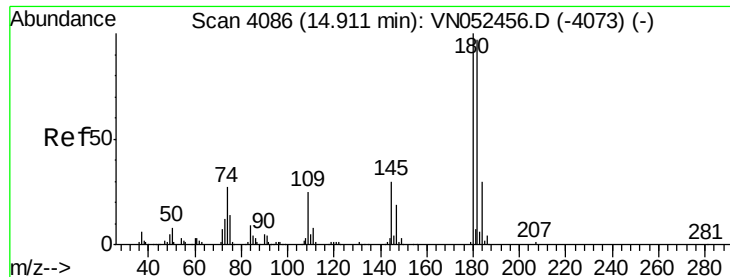
Delta R.T. 0.00 min

Lab File: VN052504.D

Acq: 28 Nov 2018 3:25

Tgt Ion:	75	Resp:	30865
Ion Ratio	Lower	Upper	
75	100		
155	92.6	72.2	108.2
157	120.8	94.2	141.2





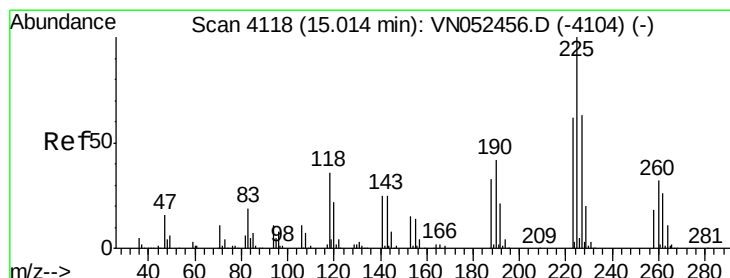
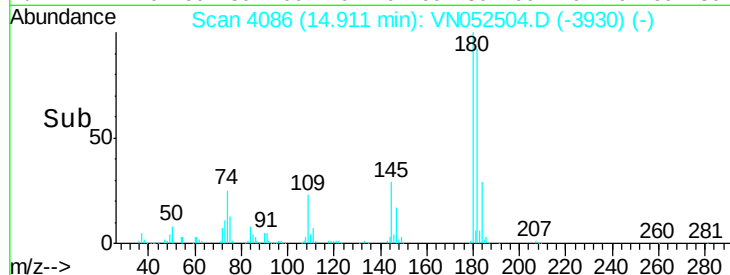
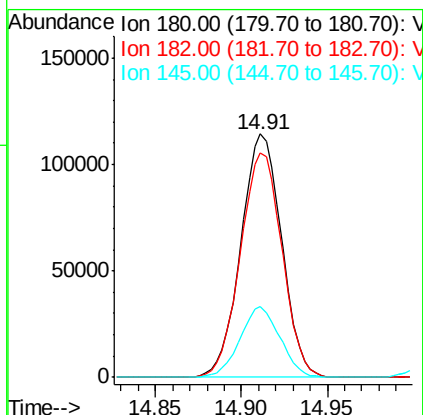
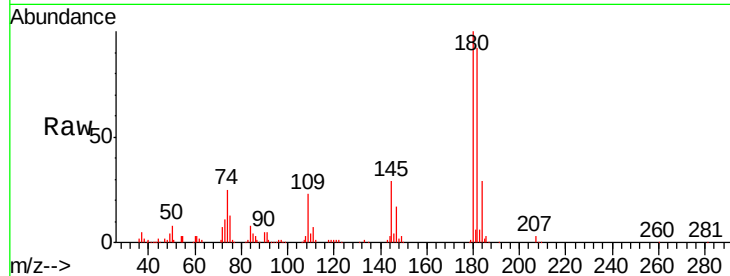
#89
 1,2,4-Trichlorobenzene
 Concen: 18.91 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.6	114.8
145	28.6	23.6	35.4

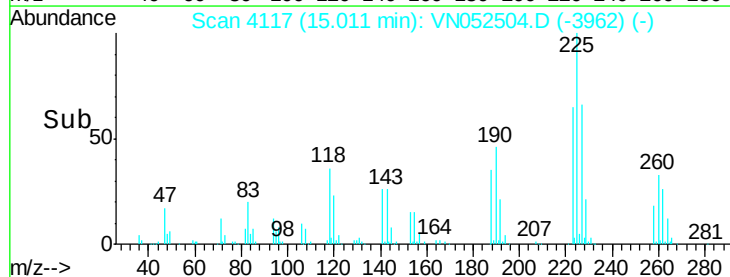
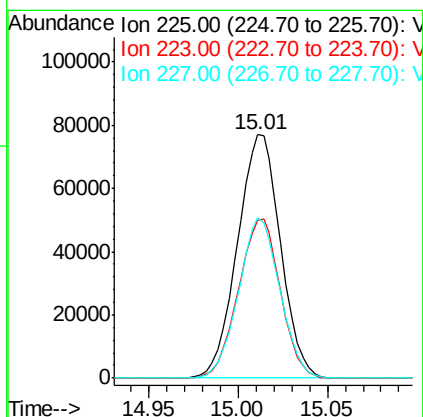
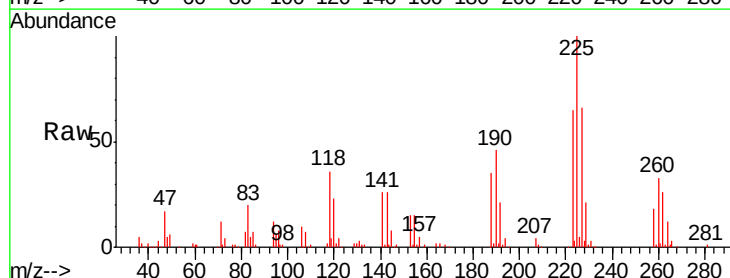
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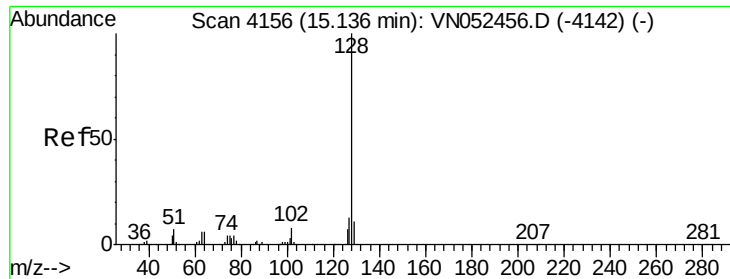
MMDadoda
 11/28/2018 9:32:40 AM



#90
 Hexachlorobutadiene
 Concen: 19.90 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052504.D
 Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	0.0	125.6
227	63.2	0.0	127.8





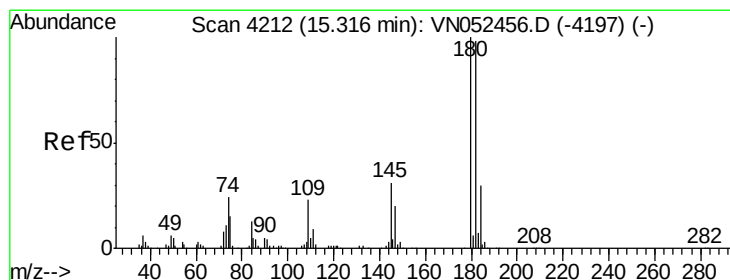
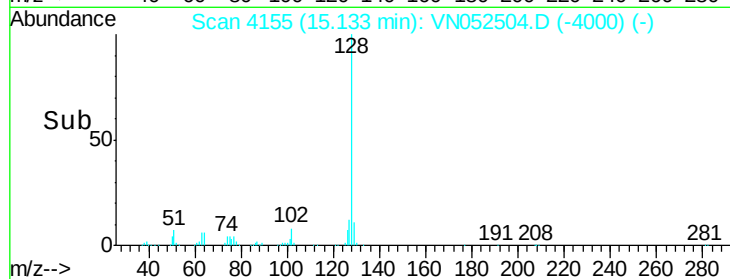
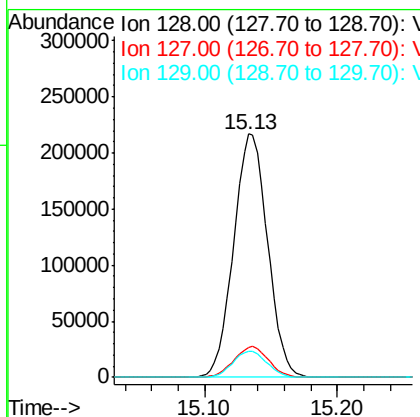
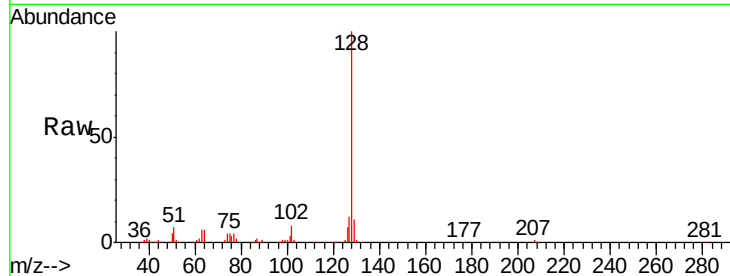
#91
Naphthalene
Concen: 19.21 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	385200		
127	12.8	9.9	14.9	
129	10.7	8.5	12.7	

Manual Integrations
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#92
1,2,3-Trichlorobenzene
Concen: 19.51 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052504.D
Acq: 28 Nov 2018 3:25

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	178527		
182	96.6	0.0	196.2	
145	30.9	0.0	62.2	

