

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120618\
 Data File : VN052709.D
 Acq On : 6 Dec 2018 20:25
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 12/7/2018 1:13:00 PM

Quant Time: Dec 07 07:26:01 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	7.19	128	157110	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	897228	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	785990	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	317855	29.69	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.97%
60) 4-Bromofluorobenzene	12.40	95	358987	29.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.57%
63) Toluene-d8	10.09	98	1082079	29.69	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	169870	18.984	ug/l 99
3) Chloromethane	2.06	50	226682	19.102	ug/l 99
4) Vinyl Chloride	2.19	62	234608	19.588	ug/l 96
5) Bromomethane	2.58	94	140650	20.595	ug/l 99
6) Chloroethane	2.71	64	140722	19.757	ug/l 99
7) Trichlorofluoromethane	3.02	101	298106	20.167	ug/l 98
8) Diethyl Ether	3.42	74	112286	20.572	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	183790	19.614	ug/l 97
10) 1,1-Dichloroethene	3.74	96	176347	20.016	ug/l 100
11) Methyl Iodide	3.96	142	257401	21.042	ug/l 99
12) Methyl Acetate	4.33	43	164958	22.036	ug/l 98
13) Acrolein	3.61	56	71392	81.189	ug/l 100
14) Acrylonitrile	4.99	53	338944	106.265	ug/l 98
15) Acetone	3.82	58	87013	105.338	ug/l 98
16) Carbon Disulfide	4.06	76	517940	18.568	ug/l 99
17) Allyl chloride	4.33	41	298649	19.437	ug/l 98
18) Methylene Chloride	4.55	84	212092	20.791	ug/l 95
19) trans-1,2-Dichloroethene	5.05	96	191854	20.235	ug/l 97
20) Diisopropyl ether	5.95	45	654582	20.272	ug/l 99
21) 1,1-Dichloroethane	5.85	63	374968	20.375	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	222426	20.469	ug/l 98
23) tert-Butyl Alcohol	4.78	59	51992	109.576	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	490357	21.216	ug/l 98
25) Chloroform	7.37	83	368143	20.735	ug/l 99
26) Cyclohexane	7.66	56	327652	18.877	ug/l # 99
29) 1,1-Dichloropropene	7.80	75	276169	20.156	ug/l 99
30) 2-Butanone	6.84	43	381690	104.107	ug/l 98
31) 2,2-Dichloropropane	6.82	77	247755	19.641	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	298742	20.954	ug/l 98
33) Carbon Tetrachloride	7.78	117	258394	20.714	ug/l 98
34) Benzene	8.04	78	842964	20.463	ug/l 99
35) Methacrylonitrile	7.17	41	80035	17.595	ug/l 97
36) 1,2-Dichloroethane	8.12	62	258239	20.687	ug/l 99
37) Trichloroethene	8.84	130	220749	21.133	ug/l 95
38) Methylcyclohexane	9.08	83	317270	18.706	ug/l 99
39) 1,2-Dichloropropane	9.12	63	224265	20.309	ug/l 96
40) Dibromomethane	9.21	93	128780	21.581	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	273703	20.760	ug/l	99
42) Vinyl Acetate	5.90	43	2022192	101.940	ug/l	99
43) Ethyl Acetate	6.93	43	171196	21.959	ug/l #	68
44) Isopropyl Acetate	8.17	43	307205	22.468	ug/l	100
45) 1,4-Dioxane	9.20	88	31734	424.258	ug/l	94
46) Methyl methacrylate	9.20	41	153266	21.589	ug/l	100
47) n-amyl Acetate	12.07	43	231006	20.377	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	261258	20.437	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	311734	20.016	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	185862	21.973	ug/l	99
51) Ethyl methacrylate	10.43	69	226464	21.317	ug/l	95
52) 1,3-Dichloropropane	10.71	76	320478	21.286	ug/l	100
53) Dibromochloromethane	10.90	129	199523	21.425	ug/l	99
54) 1,2-Dibromoethane	11.01	107	178528	21.599	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	608906	97.918	ug/l	99
56) Bromoform	12.13	173	131188	21.552	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	853036	111.947	ug/l	98
59) 2-Hexanone	10.75	43	564831	108.511	ug/l	100
61) Tetrachloroethene	10.63	164	222302	22.964	ug/l	96
62) Toluene	10.16	91	901871	20.814	ug/l	100
64) Chlorobenzene	11.43	112	557328	21.074	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	196568	21.413	ug/l	99
66) Ethyl Benzene	11.51	91	956290	20.478	ug/l	99
67) m/p-Xylenes	11.62	106	725222	41.684	ug/l	99
68) o-Xylene	11.95	106	353751	20.949	ug/l	100
69) Styrene	11.96	104	570320	20.924	ug/l	100
70) Isopropylbenzene	12.25	105	946229	21.060	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	216526	22.154	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	181825m	21.672	ug/l	
73) Bromobenzene	12.53	156	233129	21.454	ug/l	96
74) n-propylbenzene	12.59	91	1057284	20.197	ug/l	99
75) 2-Chlorotoluene	12.67	91	634698	20.888	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	763082	21.027	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	53152	20.055	ug/l	94
78) 4-Chlorotoluene	12.77	91	625247	20.605	ug/l	100
79) tert-butylbenzene	12.99	119	677950	21.451	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	755858	20.815	ug/l	99
81) sec-Butylbenzene	13.17	105	907443	20.614	ug/l	100
82) p-Isopropyltoluene	13.29	119	770034	20.543	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	398322	20.842	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	384457	20.821	ug/l	98
85) n-Butylbenzene	13.62	91	604889	18.786	ug/l	100
86) Hexachloroethane	13.88	117	131160	20.651	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	394600	21.697	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	30352	22.170	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	177048	19.759	ug/l	98
90) Hexachlorobutadiene	15.01	225	126421	21.508	ug/l	100
91) Naphthalene	15.13	128	359606	19.874	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	170952	20.703	ug/l	98

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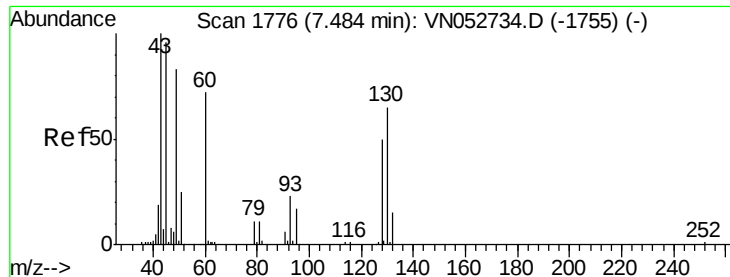
Manual Integrations
APPROVED

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12/7/2018 1:13:00 PM

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

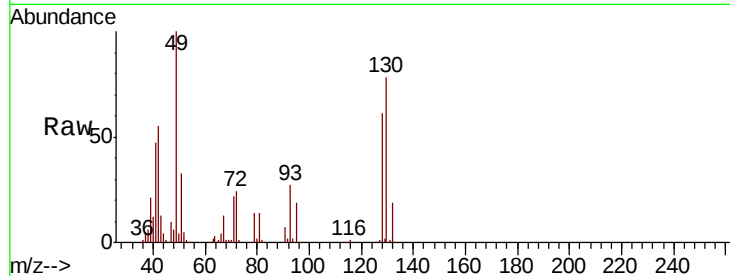
ClientSampleId :

VSTDCCC020

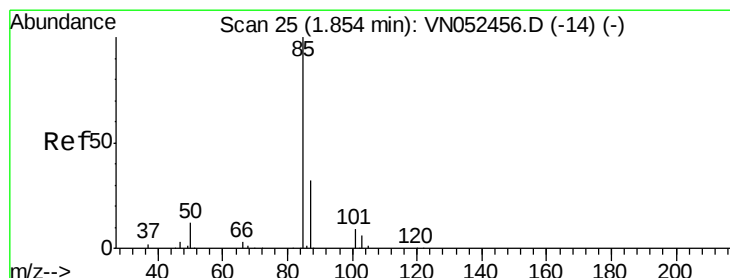
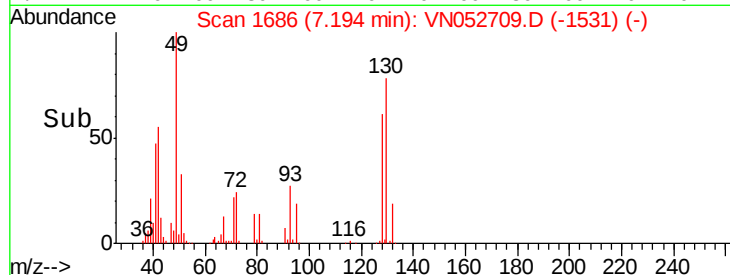
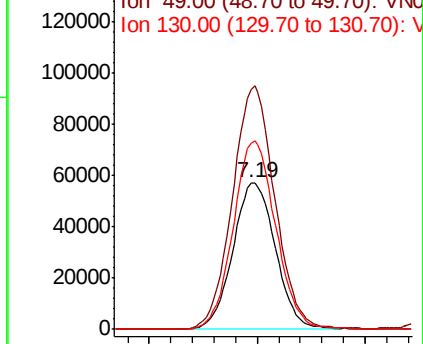
Tot Ion:	128	Resp:	157110
Ion	Ratio	Lower	Upper
128	100		
49	165.6	0.0	431.8
130	128.6	0.0	317.0

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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 18.984 ug/l

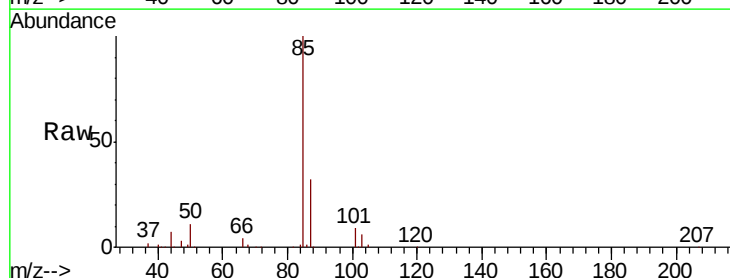
RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

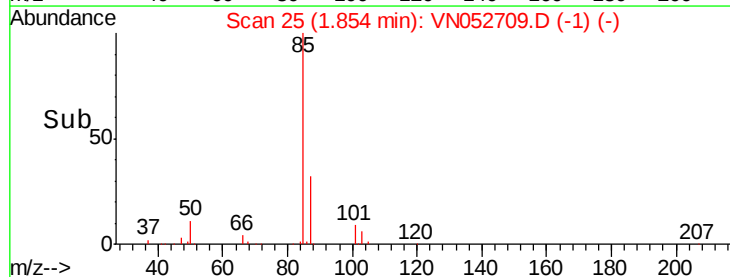
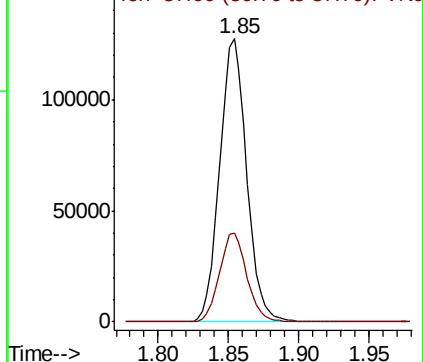
Lab File: VN052709.D

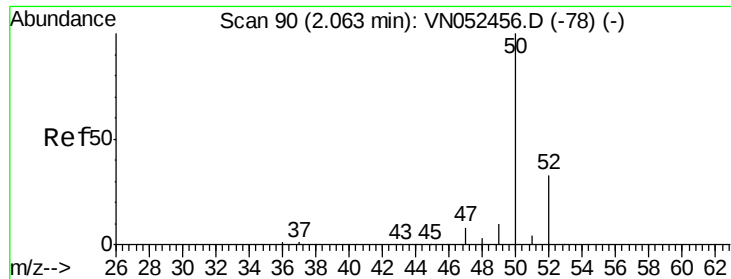
Acq: 6 Dec 2018 20:25

Tgt Ion:	85	Resp:	169870
Ion	Ratio	Lower	Upper
85	100		
87	31.6	16.1	48.3



Abundance Ion 85.00 (84.70 to 85.70): V
Ion 87.00 (86.70 to 87.70): V





#3

Chloromethane

Concen: 19.102 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 50 Resp: 226682

Ion Ratio Lower Upper

50 100

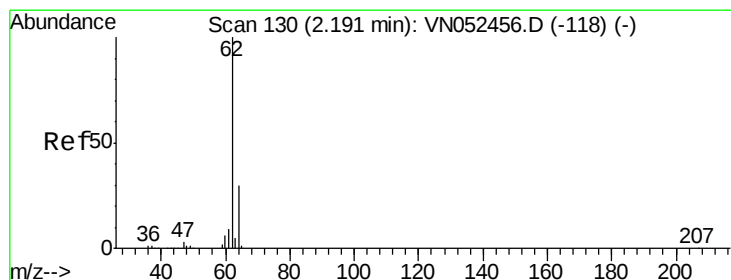
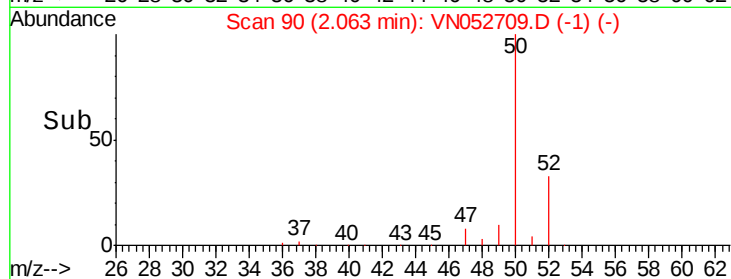
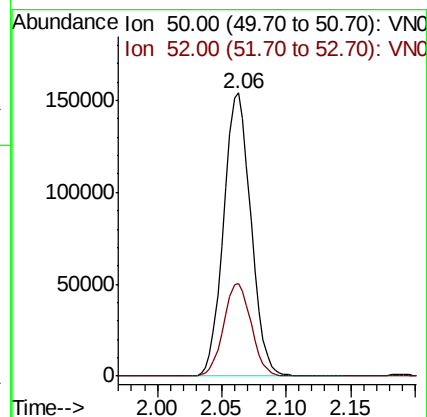
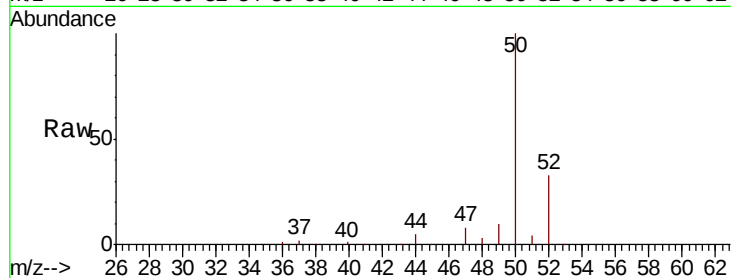
52 32.8 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.588 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052709.D

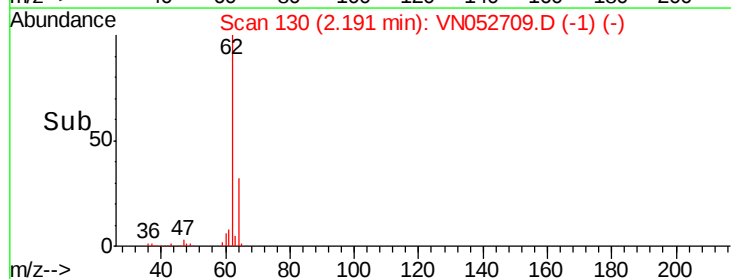
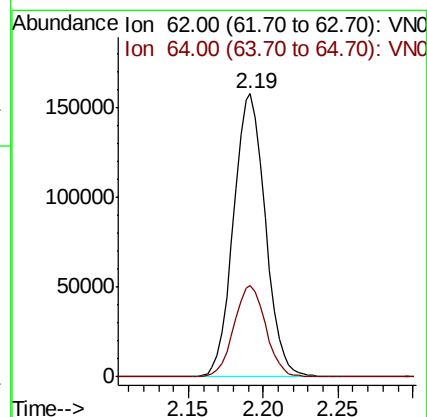
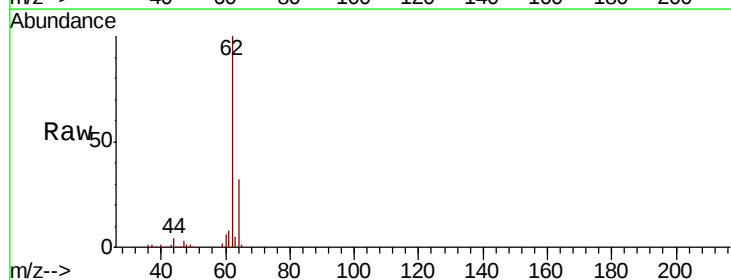
Acq: 6 Dec 2018 20:25

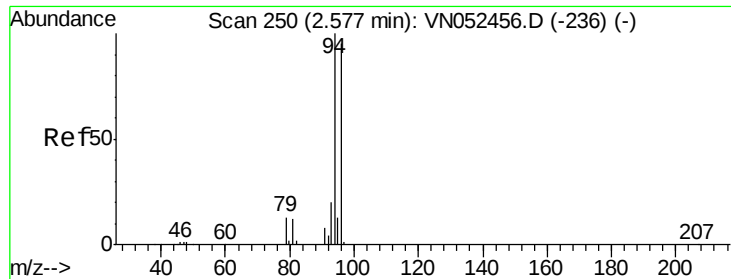
Tgt Ion: 62 Resp: 234608

Ion Ratio Lower Upper

62 100

64 32.4 24.2 36.4





#5

Bromomethane

Concen: 20.595 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 94 Resp: 140650

Ion Ratio Lower Upper

94 100

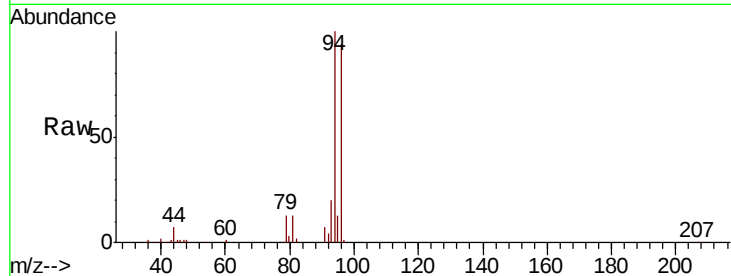
96 94.1 76.2 114.2

Manual Integrations

APPROVED

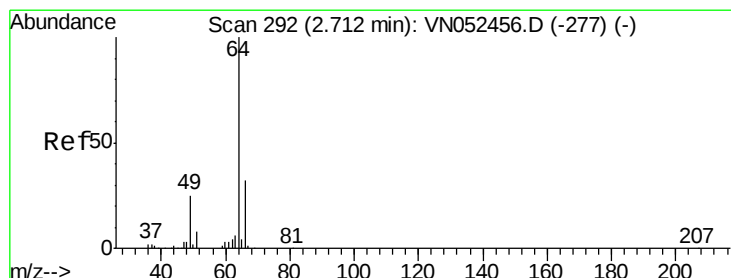
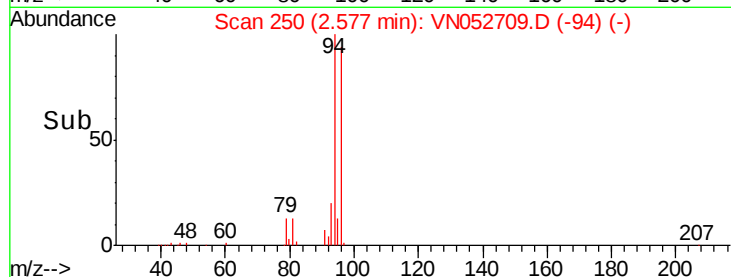
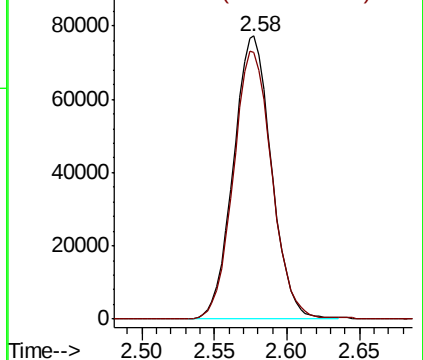
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12/7/2018 1:13:00 PM



Abundance Ion 94.00 (93.70 to 94.70): VNO

Ion 96.00 (95.70 to 96.70): VNO



#6

Chloroethane

Concen: 19.757 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN052709.D

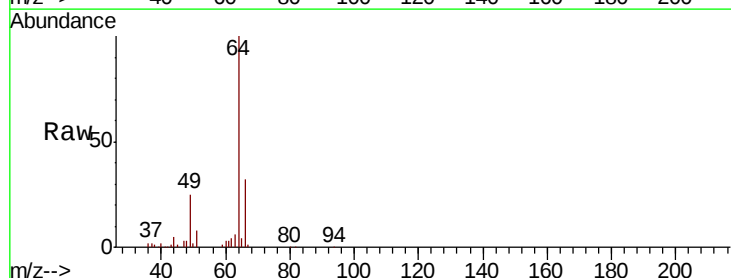
Acq: 6 Dec 2018 20:25

Tgt Ion: 64 Resp: 140722

Ion Ratio Lower Upper

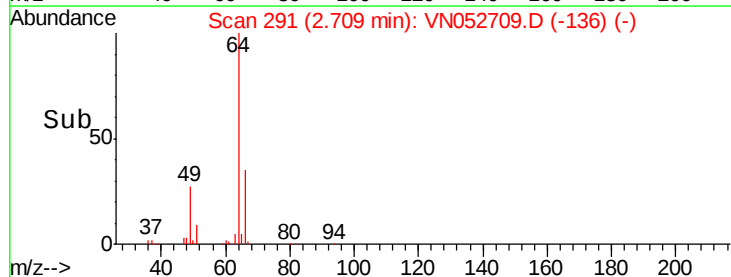
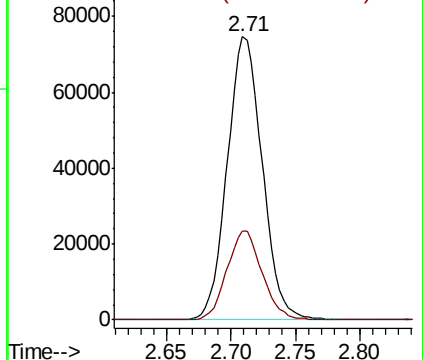
64 100

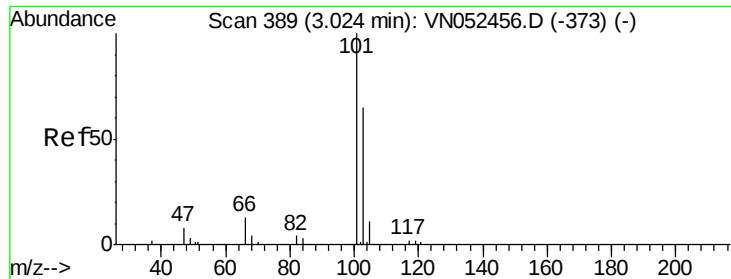
66 31.6 25.6 38.4



Abundance Ion 64.00 (63.70 to 64.70): VNO

Ion 66.00 (65.70 to 66.70): VNO





#7

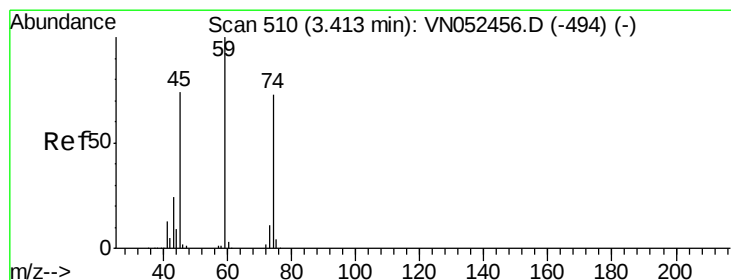
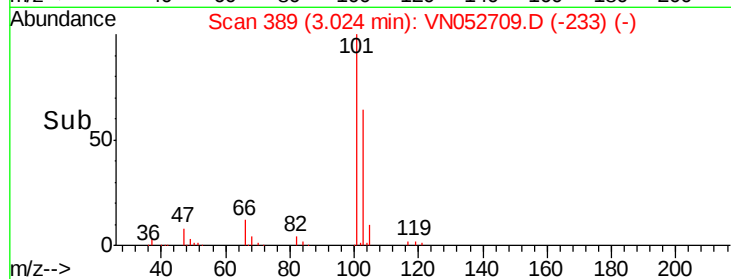
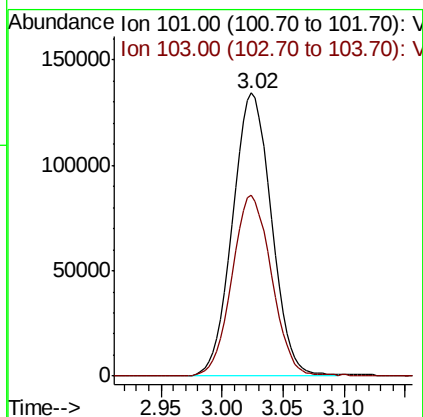
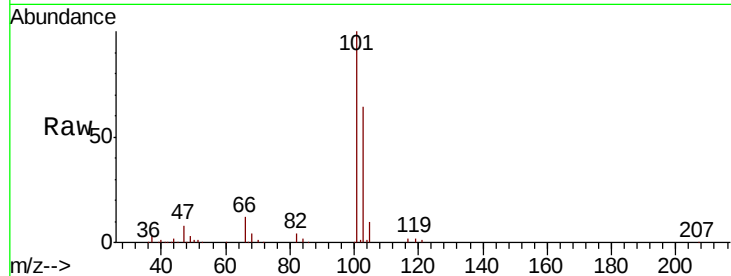
Trichlorofluoromethane
Concen: 20.167 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN052709.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.1	78.1

Manual Integrations
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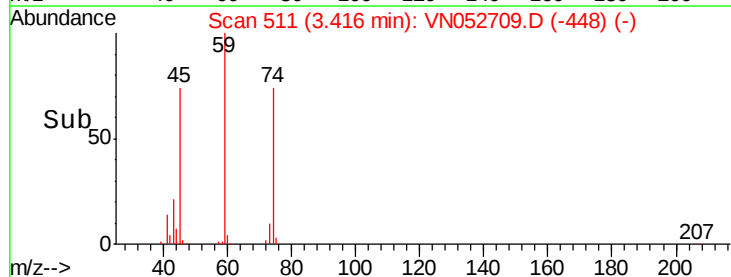
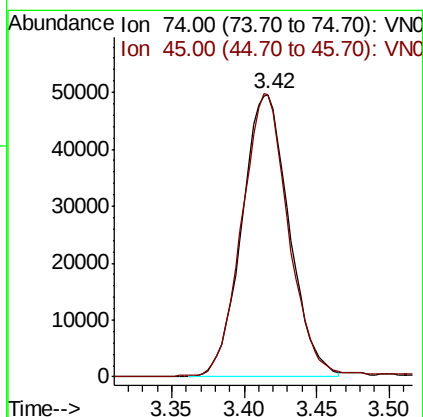
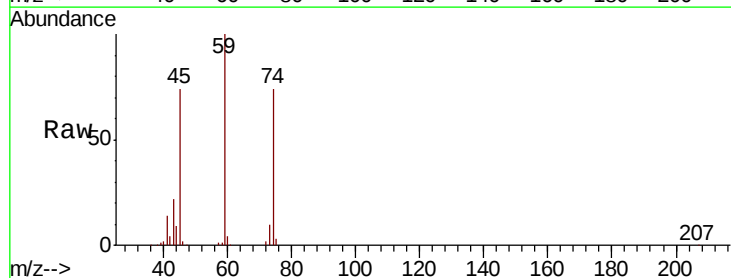
MMDadoda
12/7/2018 1:13:00 PM

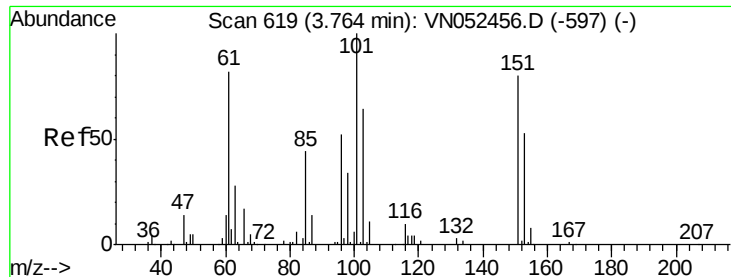


#8

Diethyl Ether
Concen: 20.572 ug/l
RT: 3.42 min Scan# 511
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.8	20.6	185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.614 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

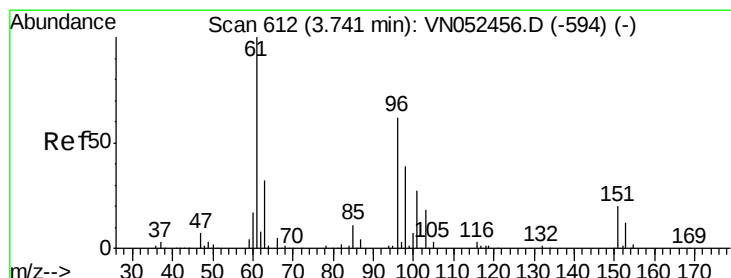
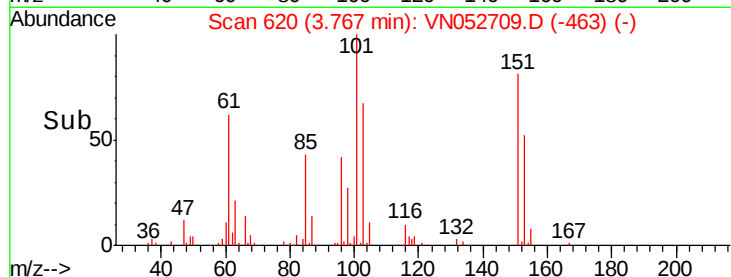
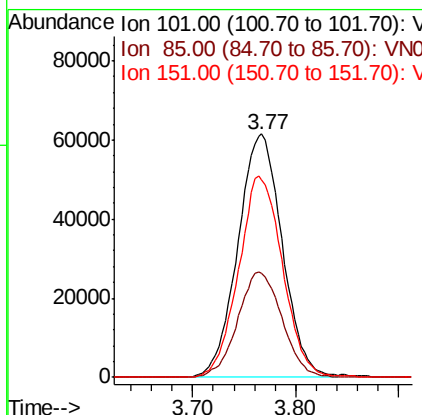
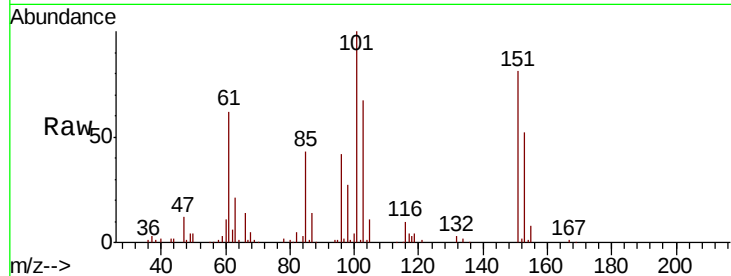
ClientSampled :

VSTDCCC020

Tot Ion:	101	Resp:	183790
Ion Ratio	Lower	Upper	
101	100		
85	43.0	0.0	82.6
151	81.8	0.0	158.4

Manual Integrations
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MMDadoda
12/7/2018 1:13:00 PM



#10

1,1-Dichloroethene

Concen: 20.016 ug/l

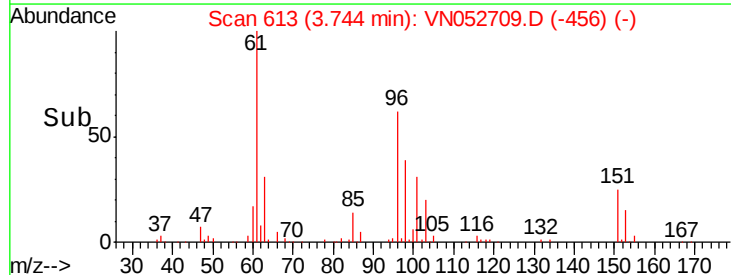
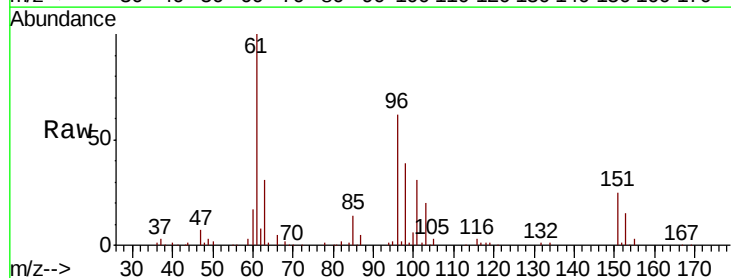
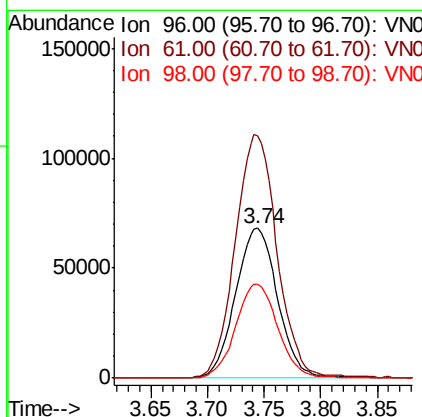
RT: 3.74 min Scan# 613

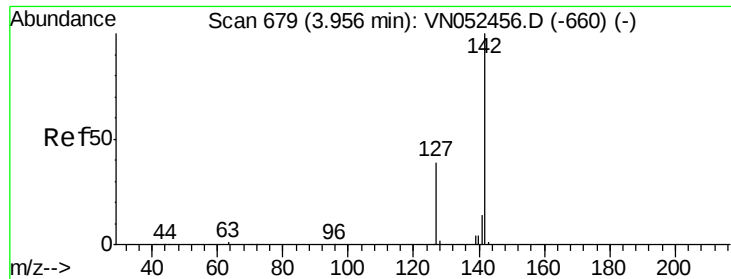
Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Tgt Ion:	96	Resp:	176347
Ion Ratio	Lower	Upper	
96	100		
61	161.4	129.4	194.2
98	62.4	50.4	75.6





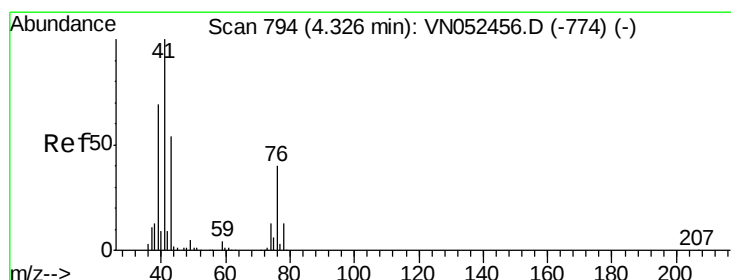
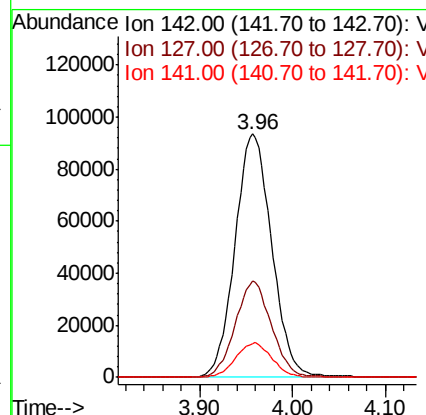
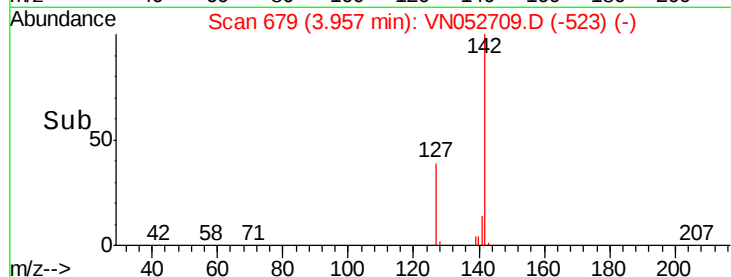
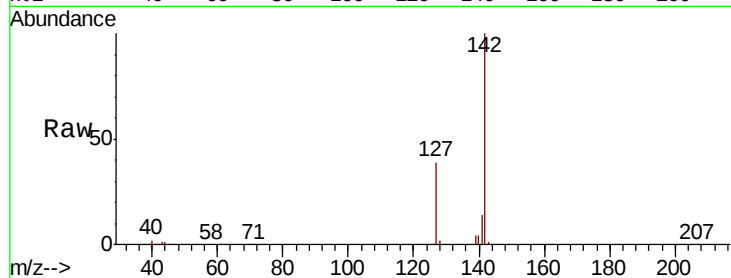
#11
Methvl Iodide
Concen: 21.042 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
142	100		
127	39.4	19.4	58.1
141	13.9	7.2	21.6

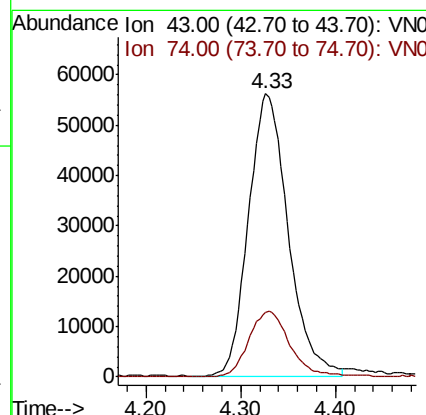
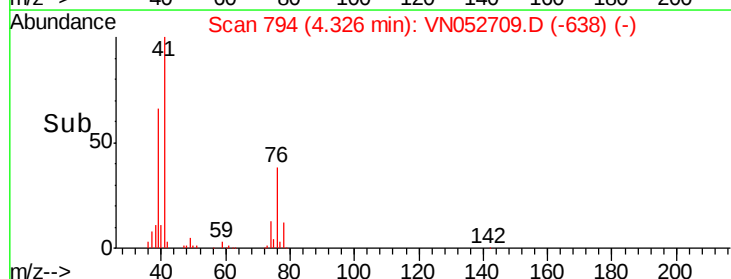
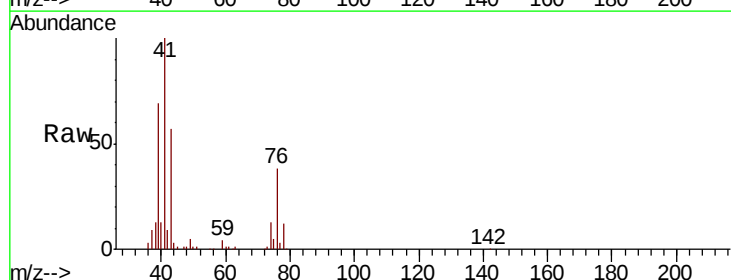
Manual Integrations
APPROVED

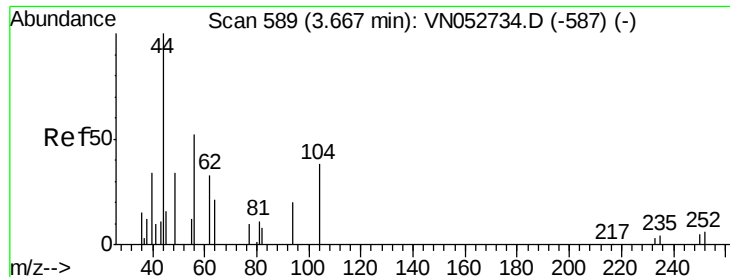
MMDadoda
12/7/2018 1:13:00 PM



#12
Methyl Acetate
Concen: 22.036 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.6	18.9	28.3





#13

Acrolein

Concen: 81.189 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 56 Resp: 71392

Ion Ratio Lower Upper

56 100

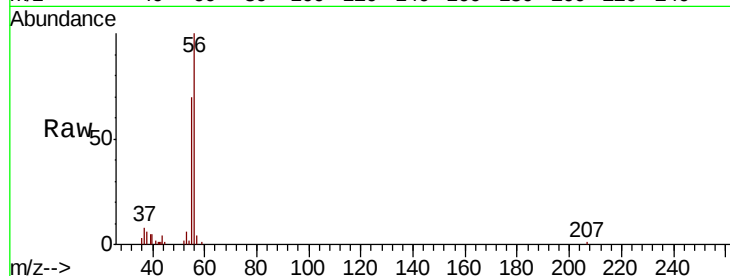
55 70.7 56.7 85.1

Manual Integrations

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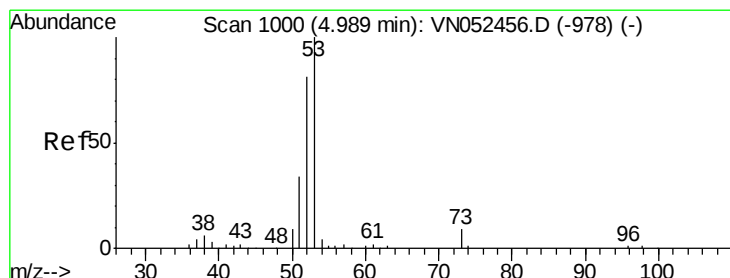
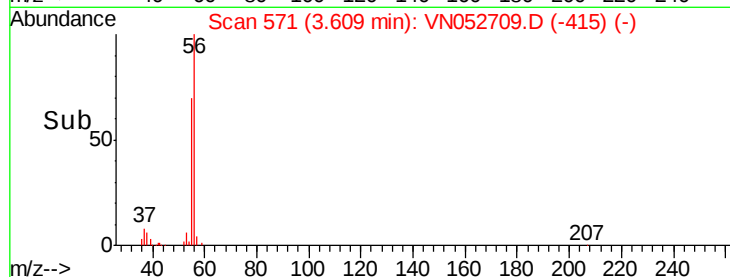
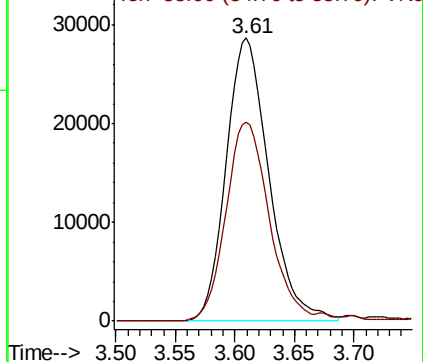
MMDadoda

12/7/2018 1:13:00 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 106.265 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

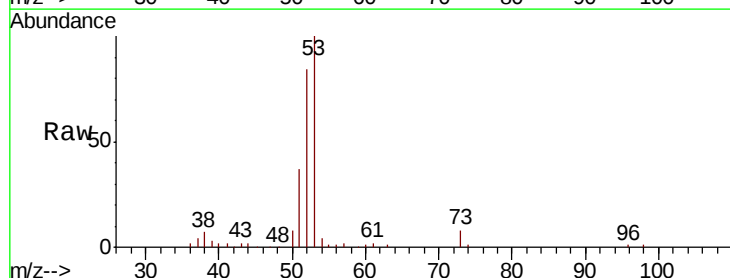
Tgt Ion: 53 Resp: 338944

Ion Ratio Lower Upper

53 100

52 82.0 39.9 119.7

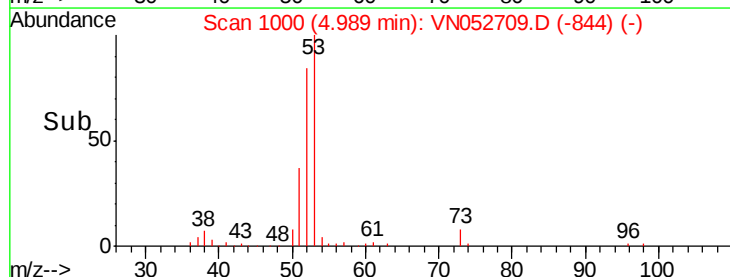
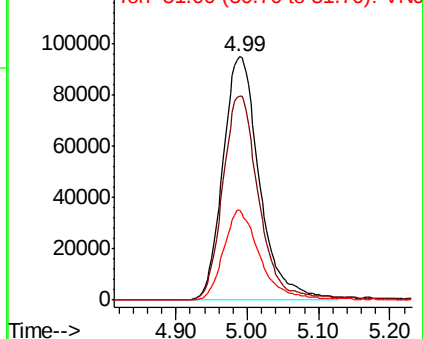
51 36.5 17.6 52.9

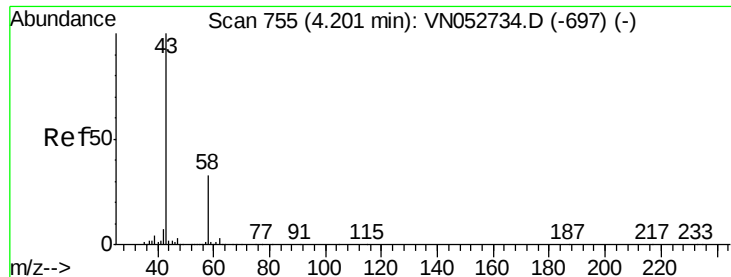


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 105.338 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion: 58 Resp: 87013

Ion Ratio Lower Upper

58 100

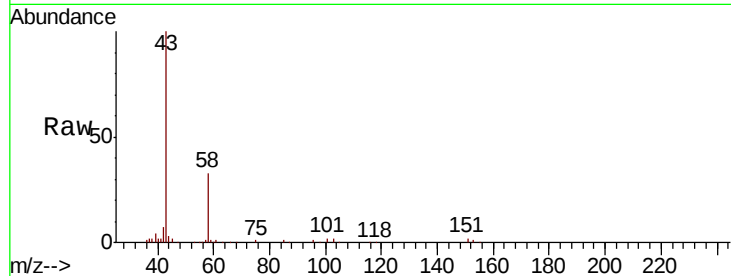
43 300.8 243.6 365.4

Manual Integrations

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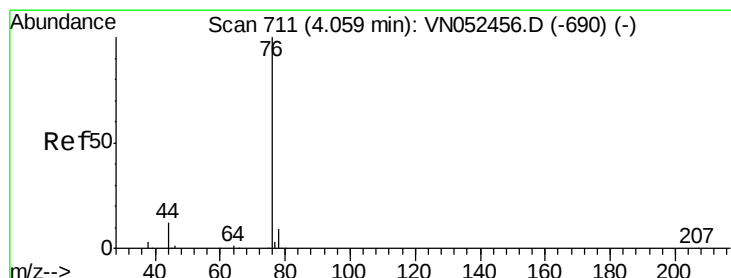
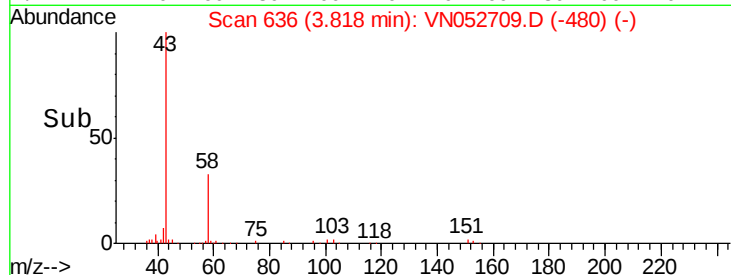
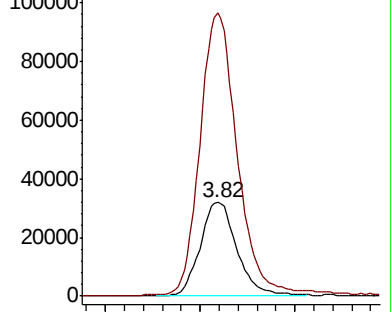
MMDadoda

12/7/2018 1:13:00 PM



Abundance Ion 58.00 (57.70 to 58.70): VN052709.D (-480) (-)

Ion 43.00 (42.70 to 43.70): VN052709.D (-480) (-)



#16

Carbon Disulfide

Concen: 18.568 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052709.D

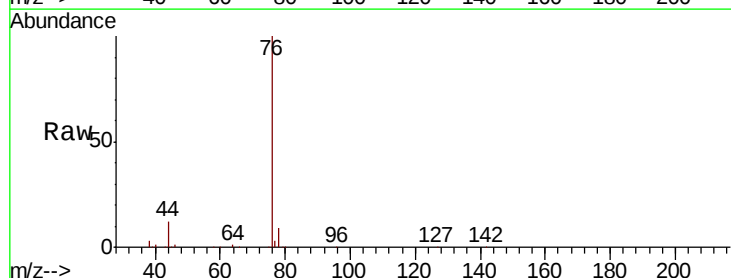
Acq: 6 Dec 2018 20:25

Tgt Ion: 76 Resp: 517940

Ion Ratio Lower Upper

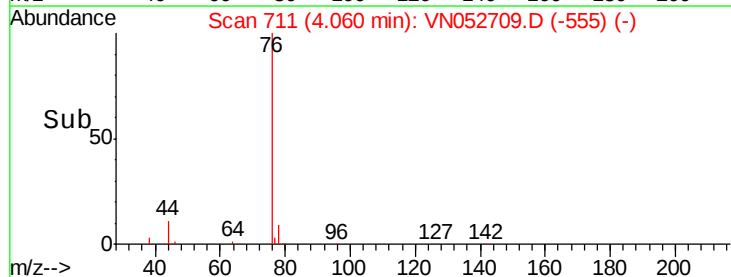
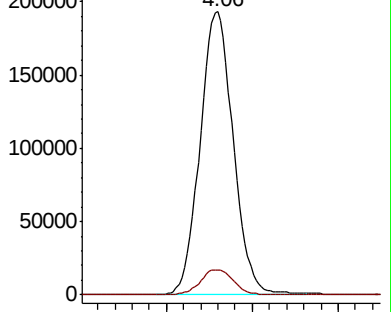
76 100

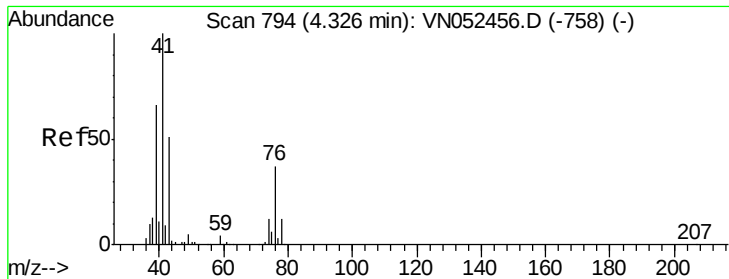
78 8.8 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN052709.D (-555) (-)

Ion 78.00 (77.70 to 78.70): VN052709.D (-555) (-)





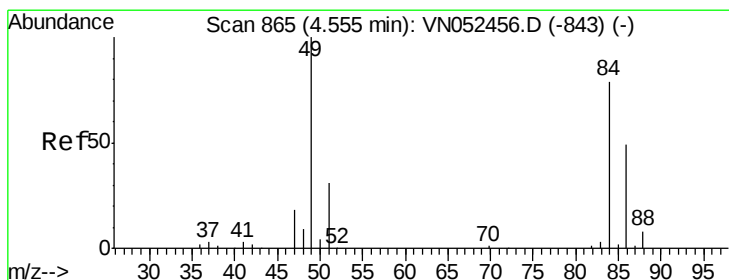
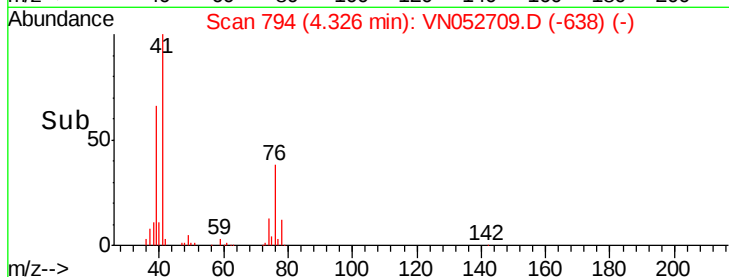
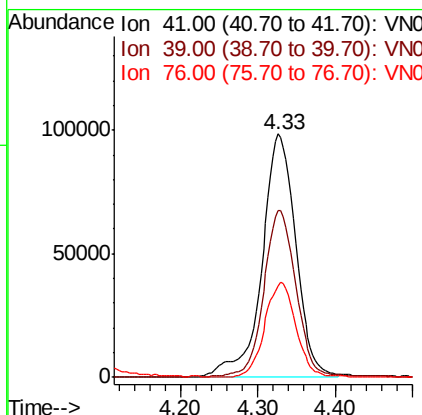
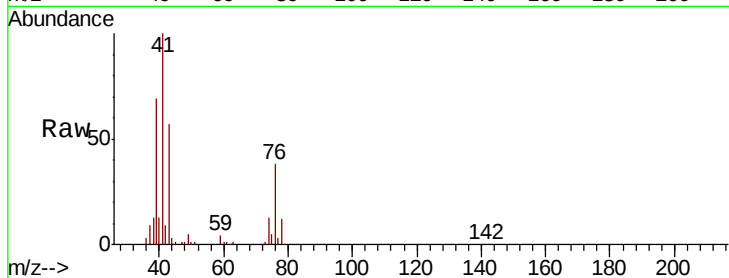
#17
Allvl chloride
Concen: 19.437 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
41	100	298649		
39	68.5		32.8	98.3
76	37.2		18.6	55.8

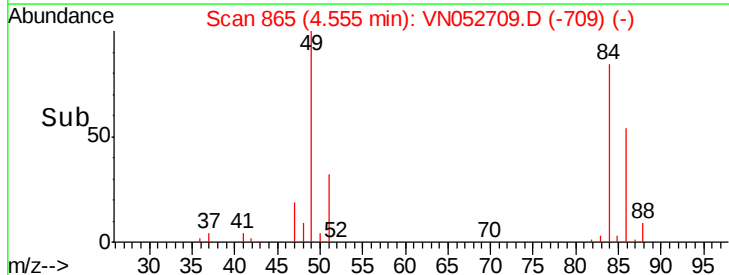
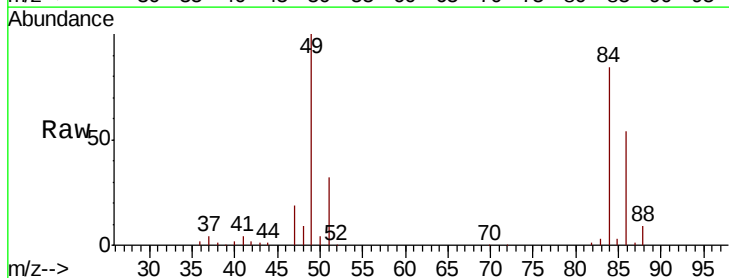
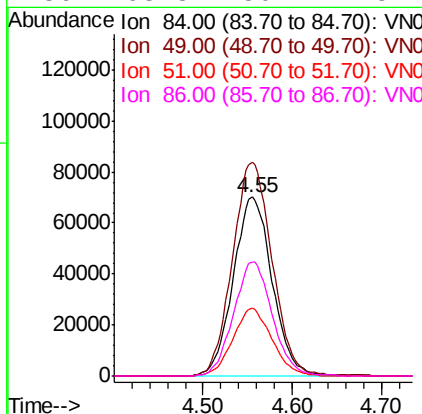
Manual Integrations
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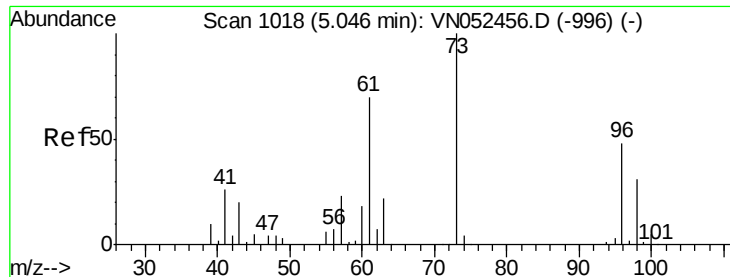
MMDadoda
12/7/2018 1:13:00 PM



#18
Methylene Chloride
Concen: 20.791 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Resp	Lower	Upper
84	100	212092		
49	119.0		101.4	152.0
51	37.8		31.7	47.5
86	63.8		50.1	75.1





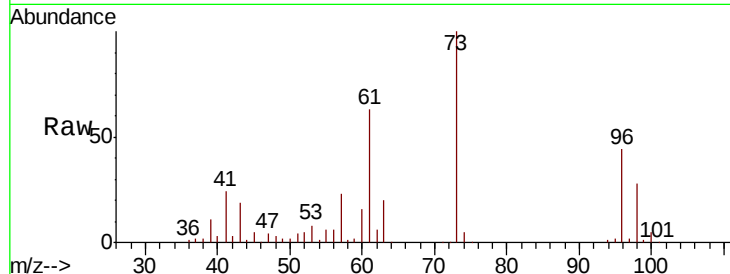
#19
trans-1,2-Dichloroethene
Concen: 20.235 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.8	118.2	177.4
98	63.4	51.4	77.2

Manual Integrations
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MMDadoda
12/7/2018 1:13:00 PM

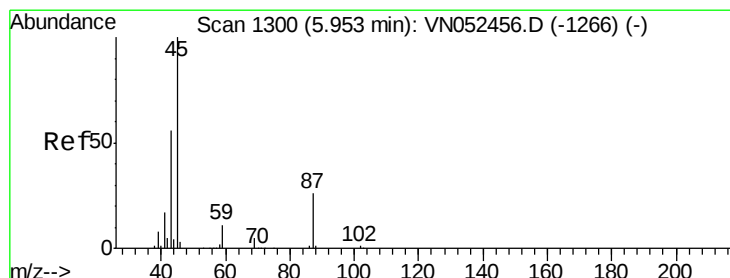
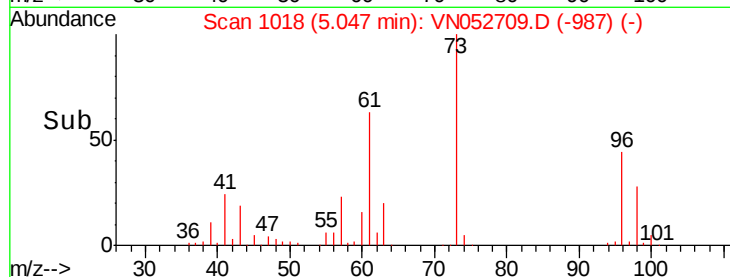
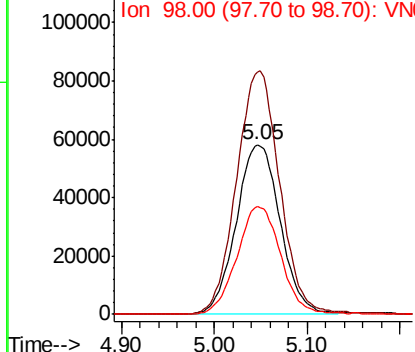


Abundance

Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO



#20
Diisopropyl ether
Concen: 20.272 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.0	47.8	71.8
87	27.3	21.3	31.9
59	11.6	8.9	13.3

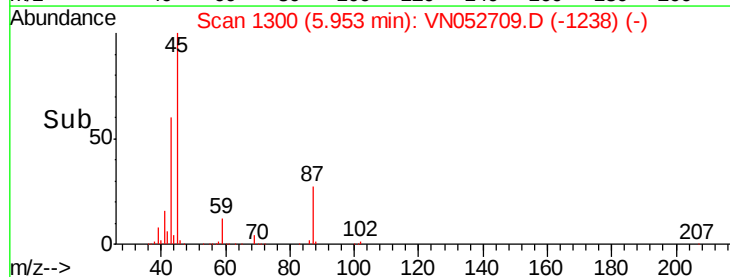
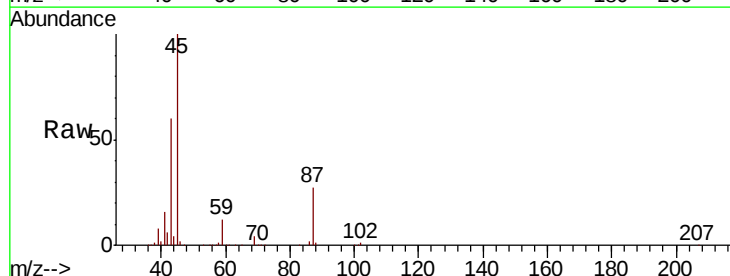
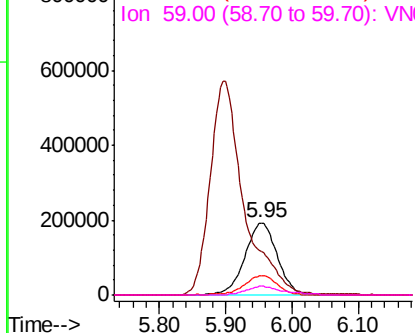
Abundance

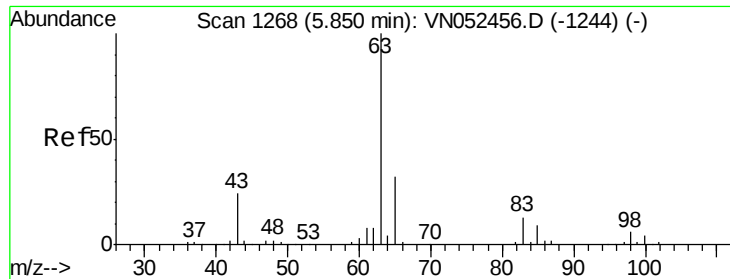
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





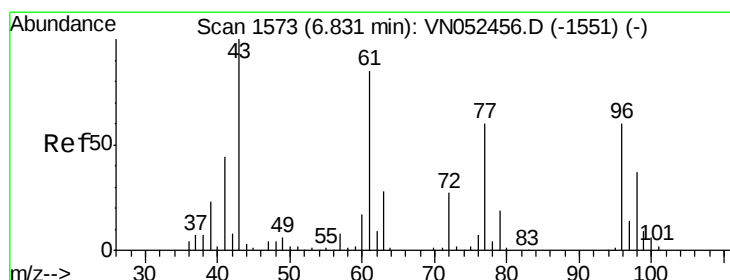
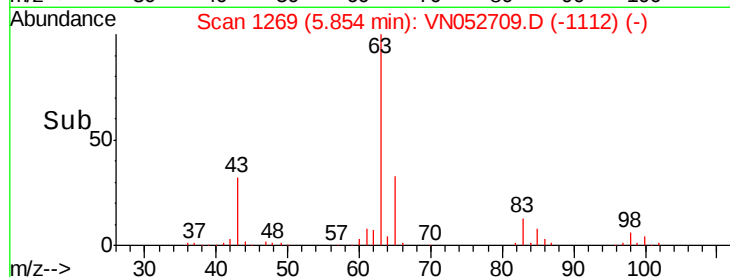
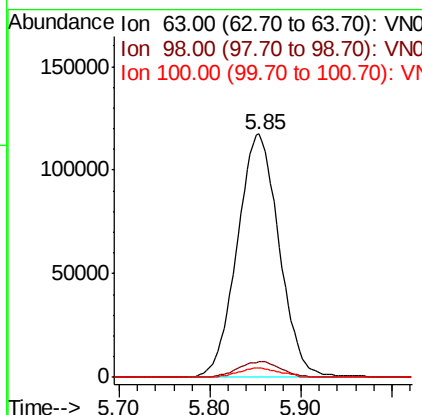
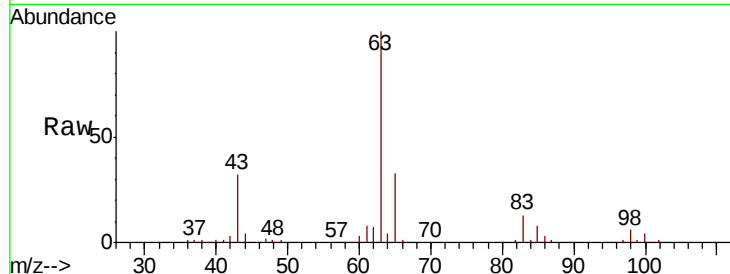
#21
 1,1-Dichloroethane
 Concen: 20.375 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	6.2	3.0	9.2	
100	3.8	1.8	5.5	

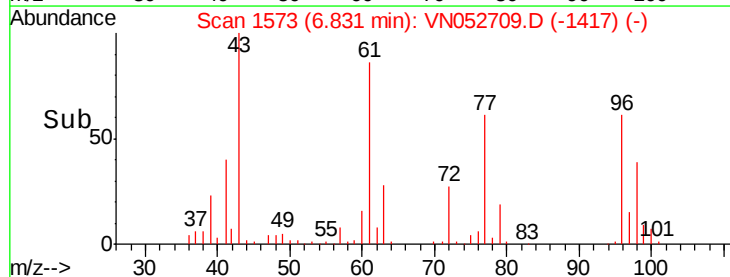
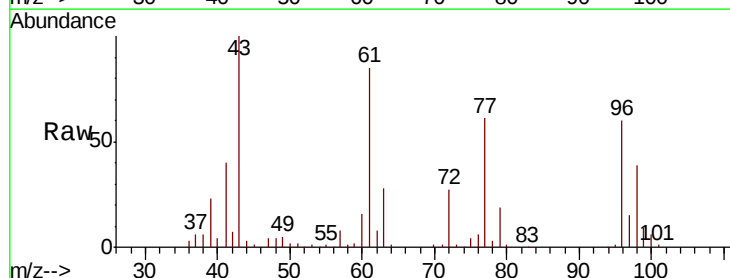
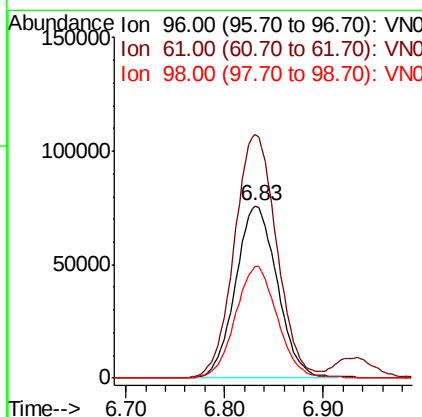
Manual Integrations
 APPROVED

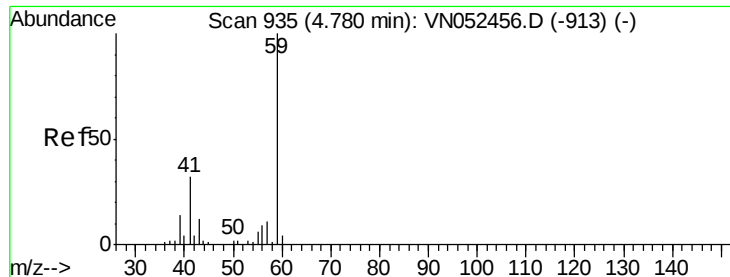
MMDadoda
 12/7/2018 1:13:00 PM



#22
 cis-1,2-Dichloroethene
 Concen: 20.469 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	143.6	116.7	175.1	
98	65.1	50.8	76.2	





#23

tert-Butyl Alcohol

Concen: 109.576 ug/l

RT: 4.78 min Scan# 935

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

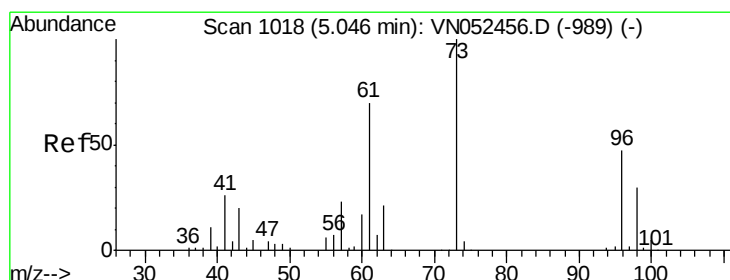
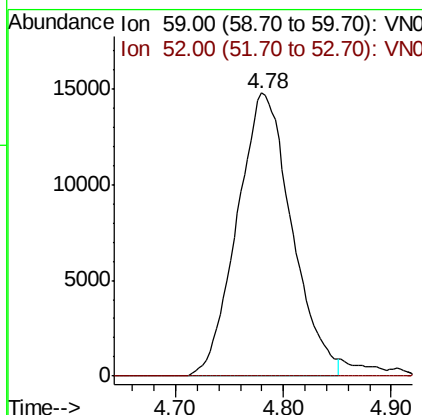
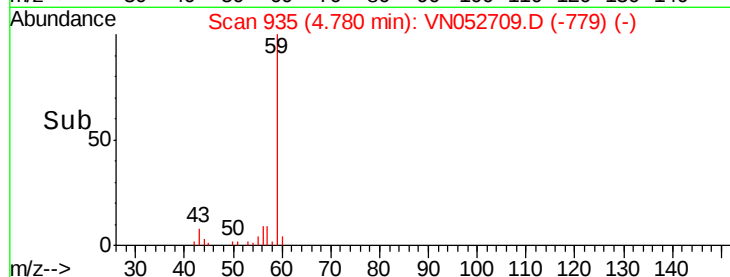
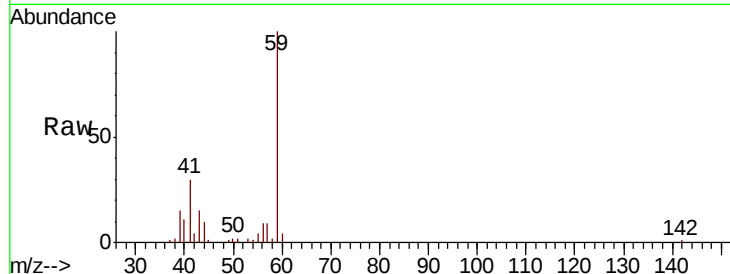
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 59 Resp: 51992

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
12/7/2018 1:13:00 PM



#24

Methyl tert-Butyl Ether

Concen: 21.216 ug/l

RT: 5.05 min Scan# 1018

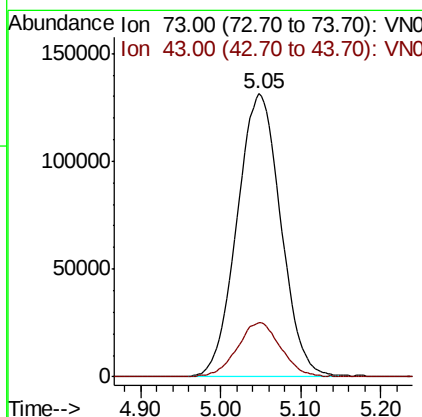
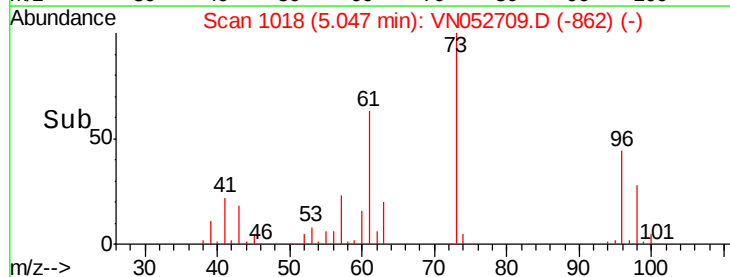
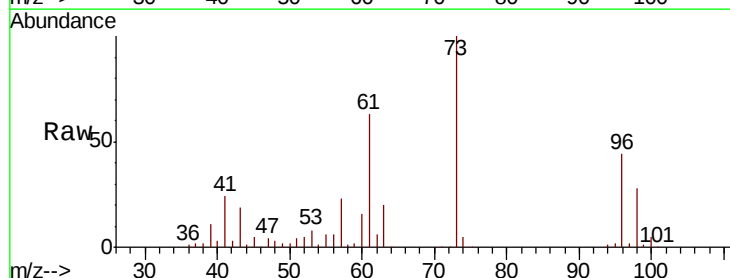
Delta R.T. 0.00 min

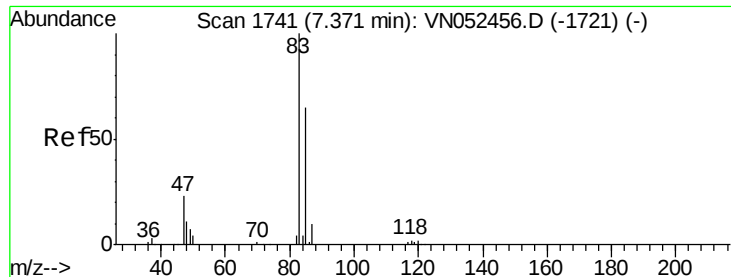
Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Tgt Ion: 73 Resp: 490357

Ion	Ratio	Lower	Upper
73	100		
43	18.7	15.8	23.8





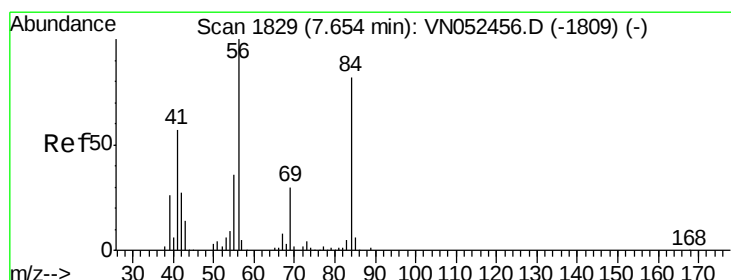
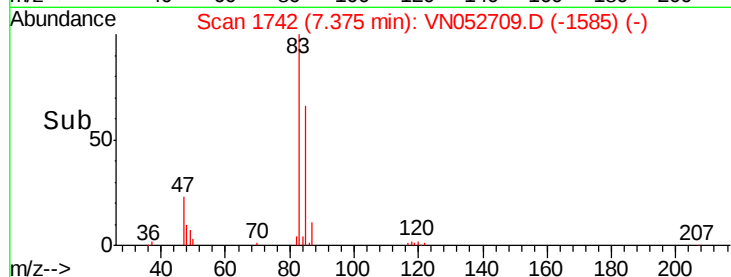
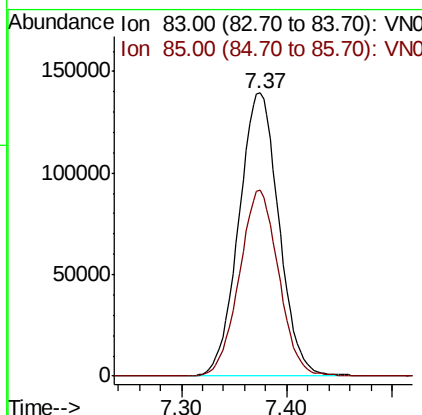
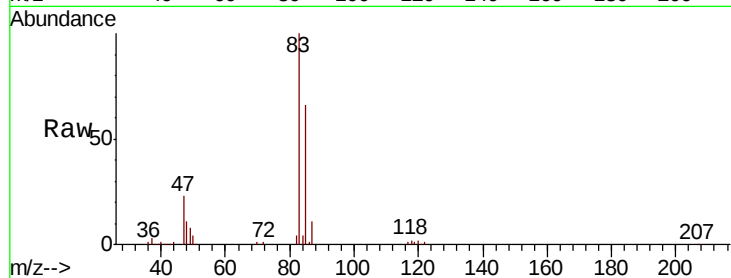
#25
Chloroform
Concen: 20.735 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	83	Resp	368143
Ion Ratio	100	Lower	Upper
83	100		
85	65.6	51.7	77.5

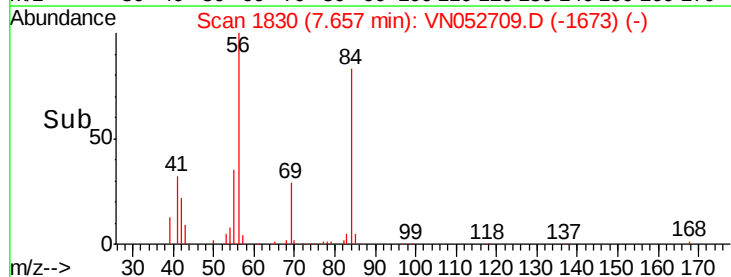
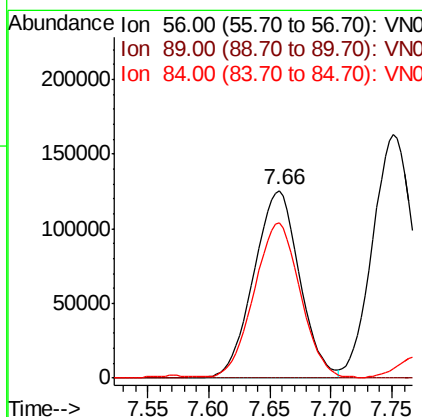
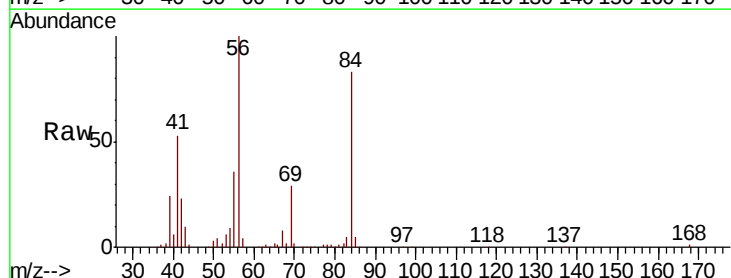
Manual Integrations
APPROVED

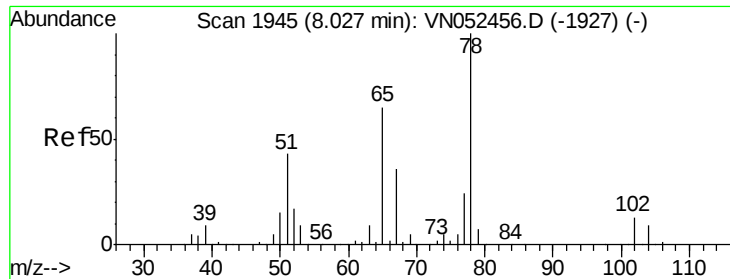
MMDadoda
12/7/2018 1:13:00 PM



#26
Cyclohexane
Concen: 18.877 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	56	Resp	327652
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	0.5	0.7#
84	84.0	66.2	99.2





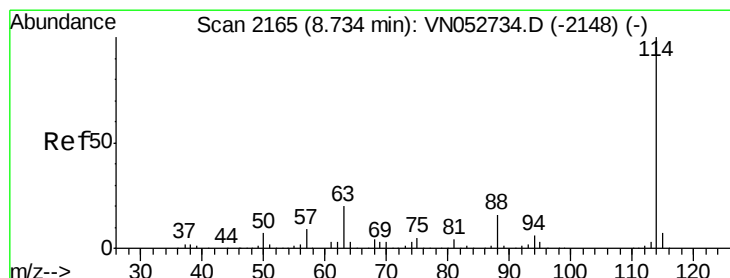
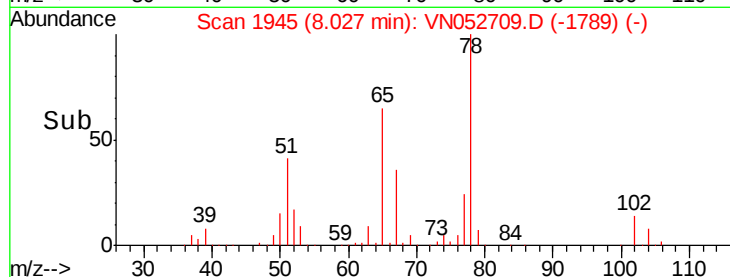
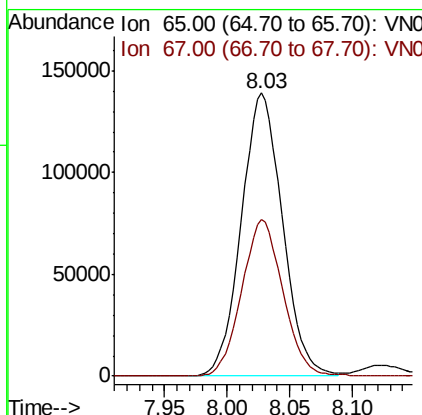
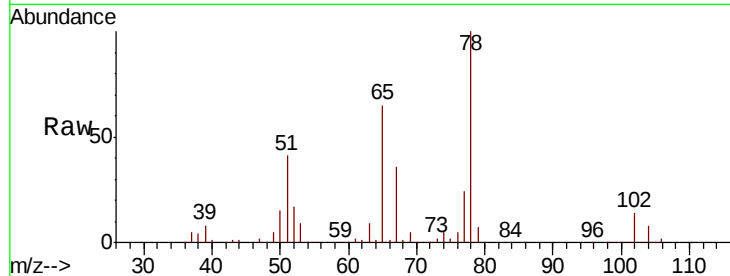
#27
 1,2-Dichloroethane-d4
 Concen: 18.877 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.4	44.6	66.8

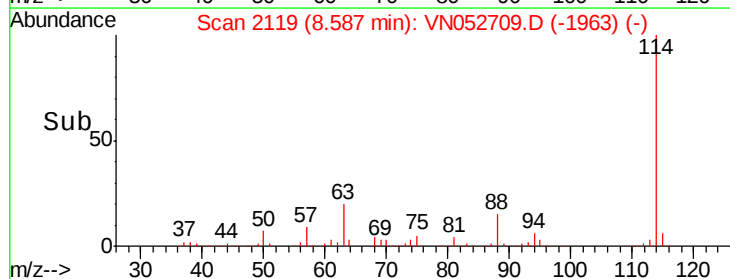
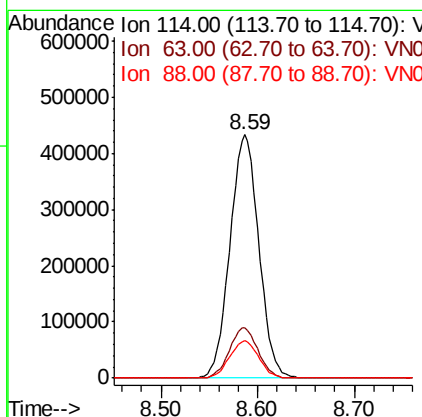
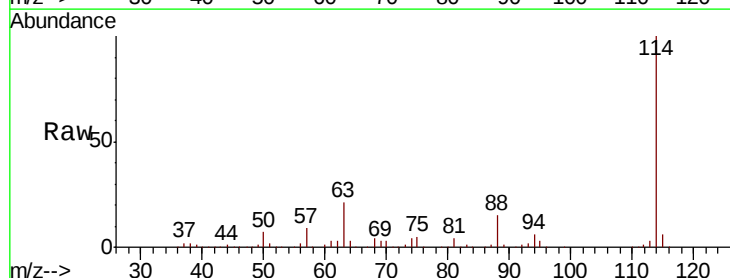
Manual Integrations
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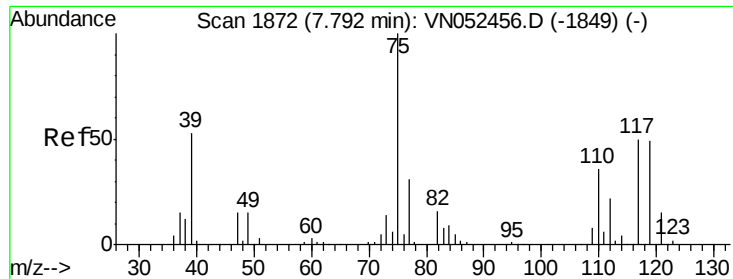
MMDadoda
 12/7/2018 1:13:00 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.5	16.9	25.3
88	15.4	12.8	19.2





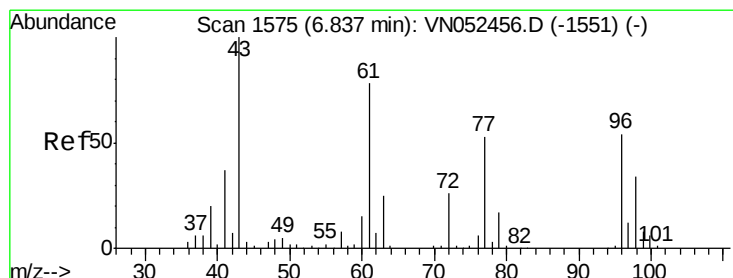
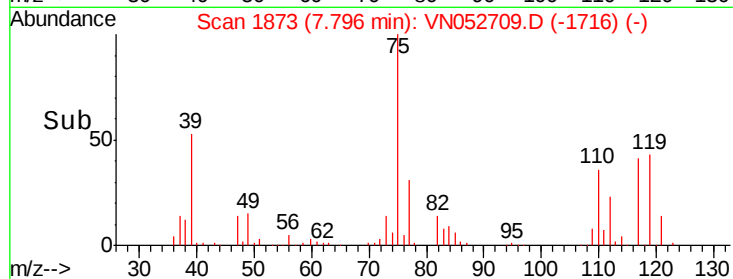
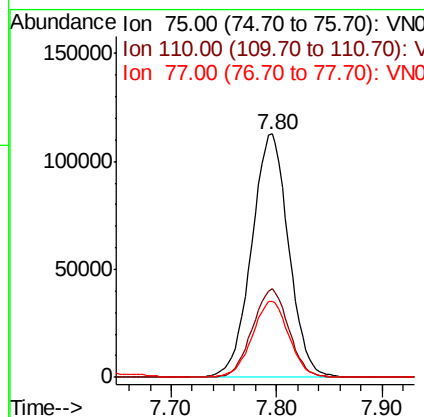
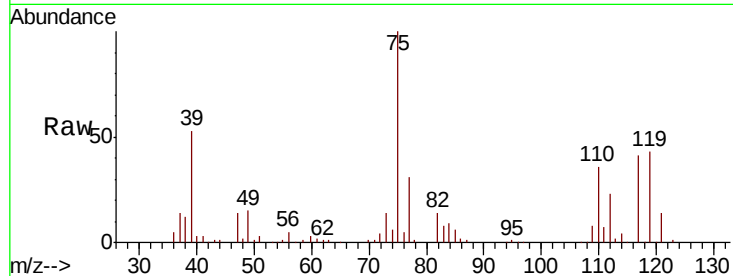
#29
 1,1-Dichloropropene
 Concen: 20.156 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	35.6	0.0	70.2
77	31.0	0.0	62.6

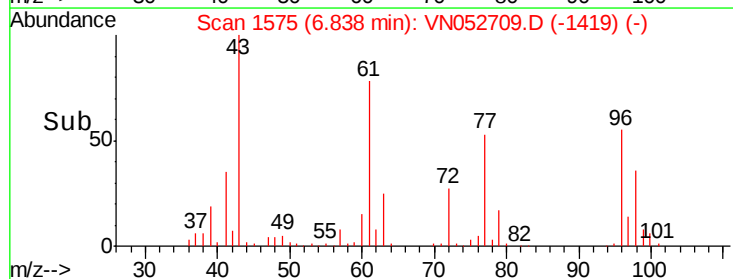
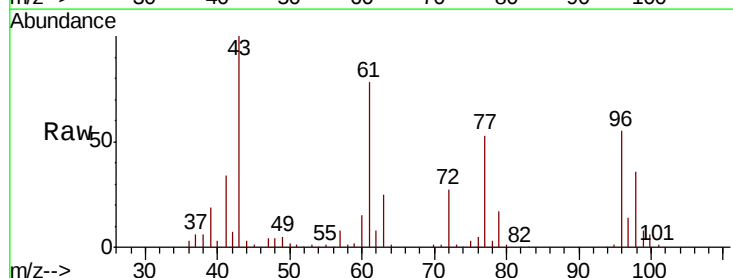
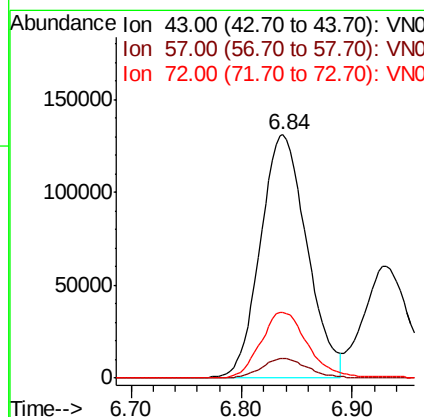
Manual Integrations
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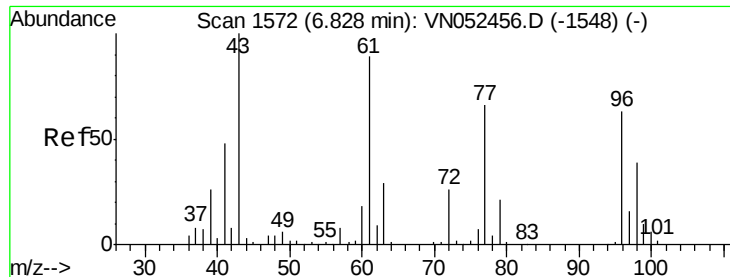
MMDadoda
 12/7/2018 1:13:00 PM



#30
 2-Butanone
 Concen: 104.107 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	8.0	6.2	9.4
72	27.6	21.0	31.6





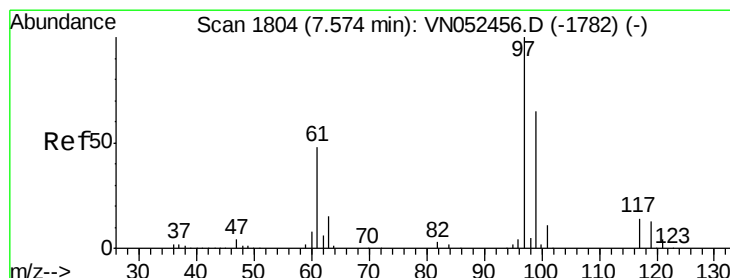
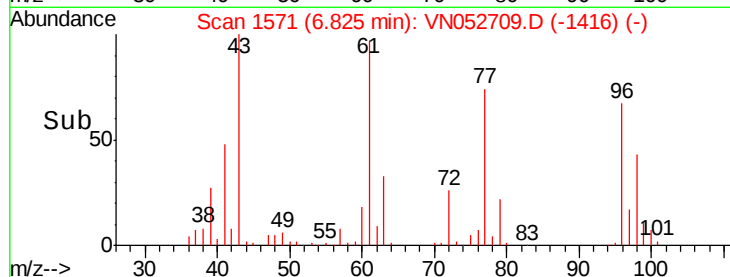
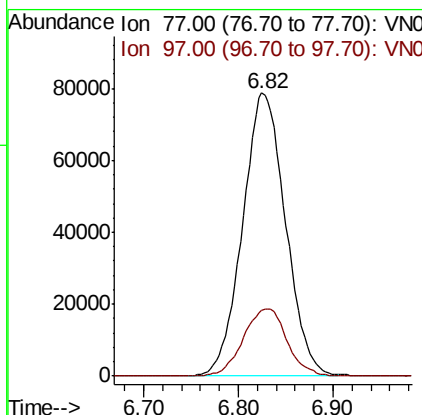
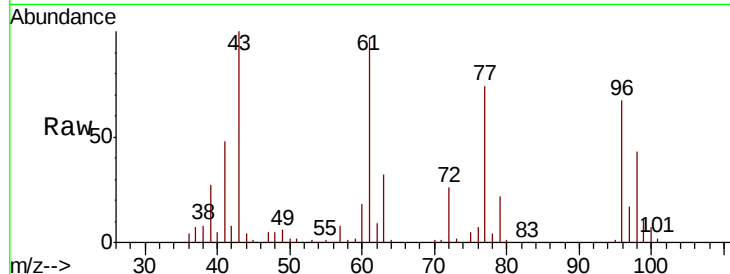
#31
 2,2-Dichloropropane
 Concen: 19.641 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020

Tot Ion: 77 Resp: 247755
 Ion Ratio Lower Upper
 77 100
 97 24.1 18.7 28.1

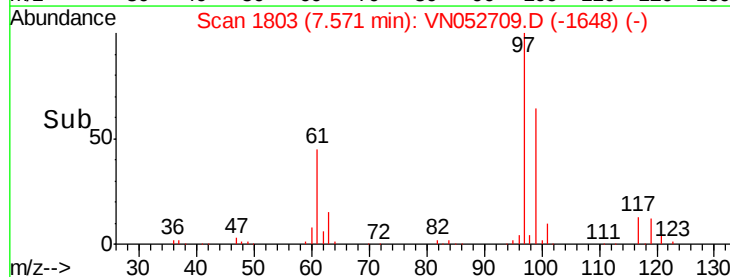
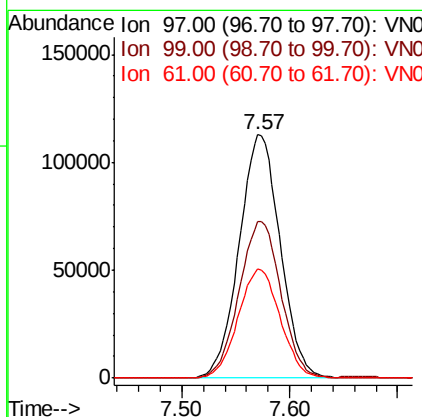
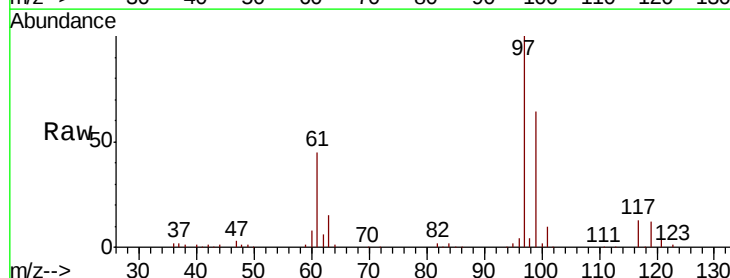
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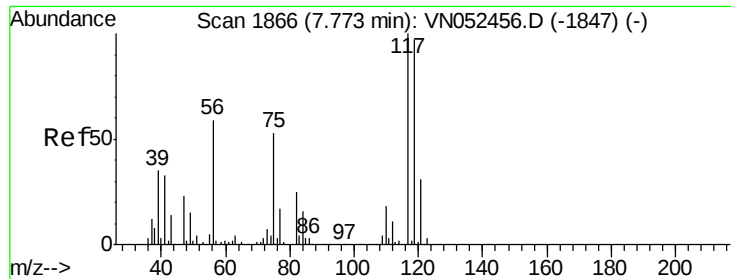
MMDadoda
 12/7/2018 1:13:00 PM



#32
 1,1,1-Trichloroethane
 Concen: 20.954 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Tgt Ion: 97 Resp: 298742
 Ion Ratio Lower Upper
 97 100
 99 65.4 50.9 76.3
 61 45.8 38.1 57.1





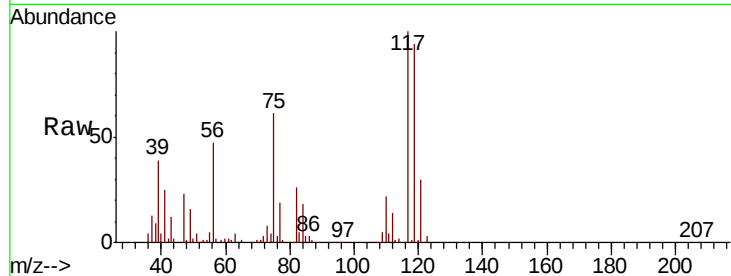
#33
Carbon Tetrachloride
Concen: 20.714 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.9	77.3	115.9
121	30.4	24.9	37.3

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12/7/2018 1:13:00 PM

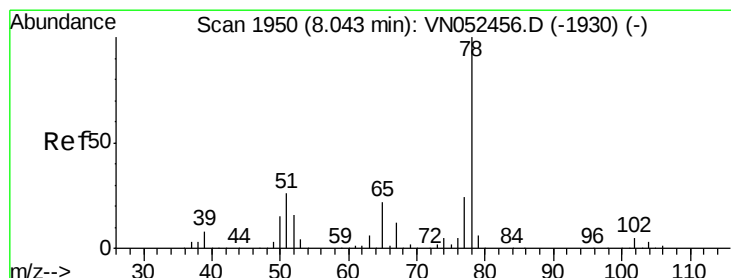
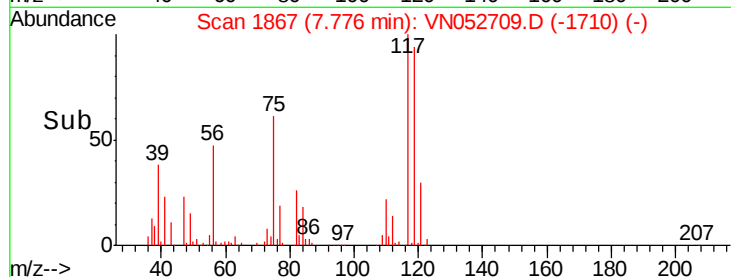
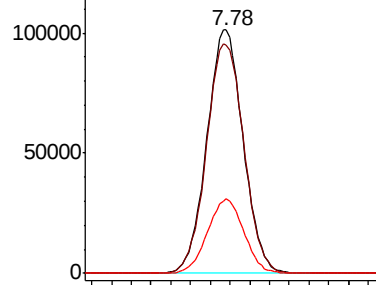


Abundance

Ion 117.00 (116.70 to 117.70): V

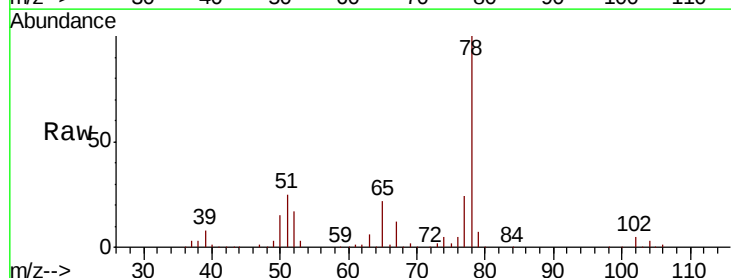
Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34
Benzene
Concen: 20.463 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.6
51	24.5	20.5	30.7

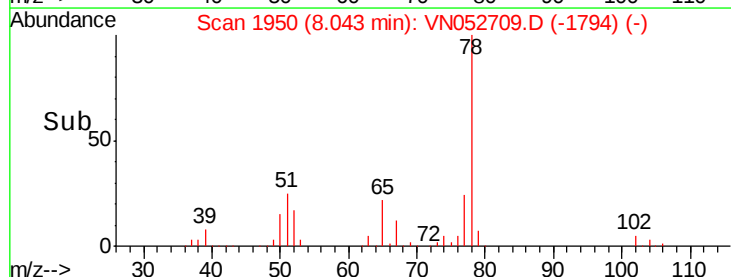
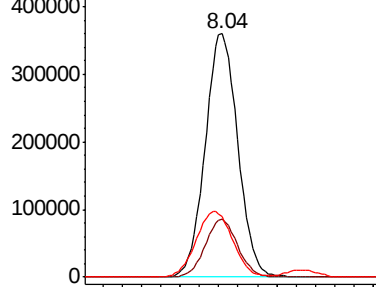


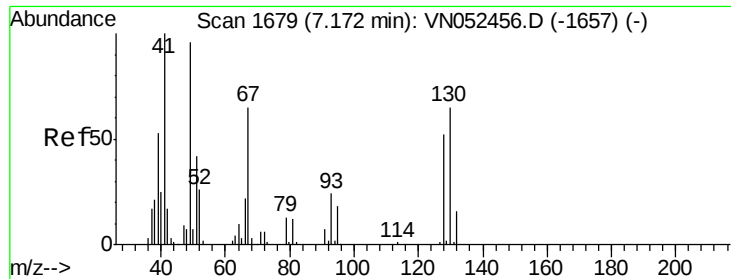
Abundance

Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V





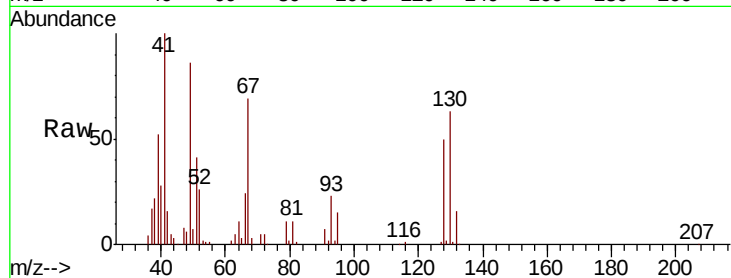
#35
Methacrylonitrile
Concen: 17.595 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

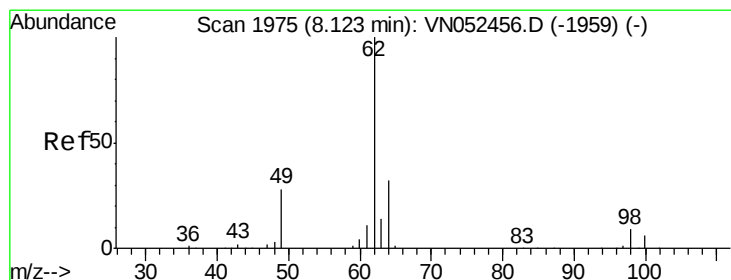
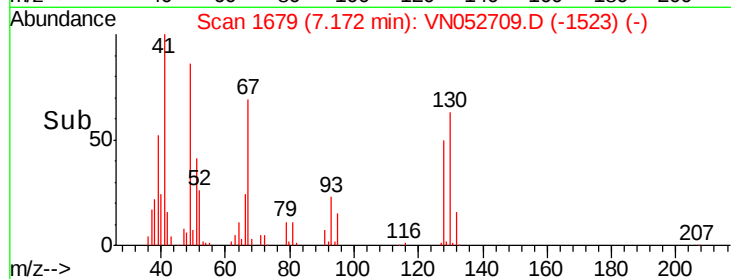
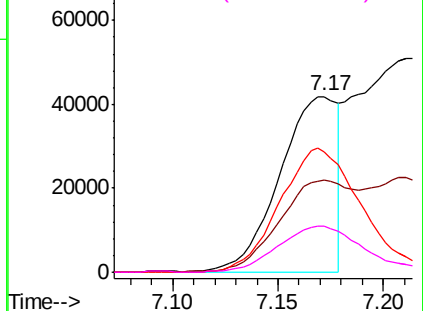
Tot Ion	Ratio	Lower	Upper
41	100		
39	51.9	26.6	79.7
67	68.8	32.3	96.9
52	25.9	13.0	38.9

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12/7/2018 1:13:00 PM

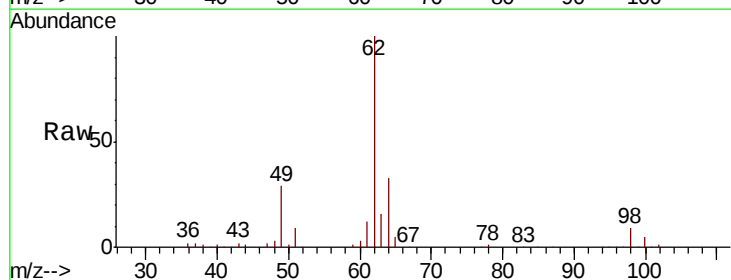


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

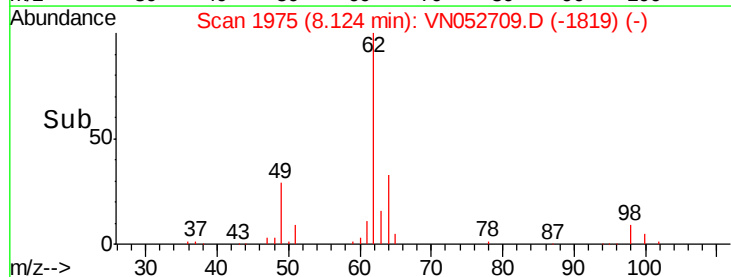
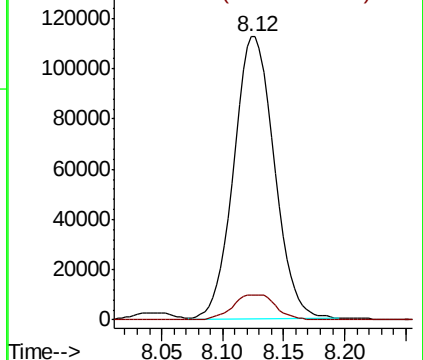


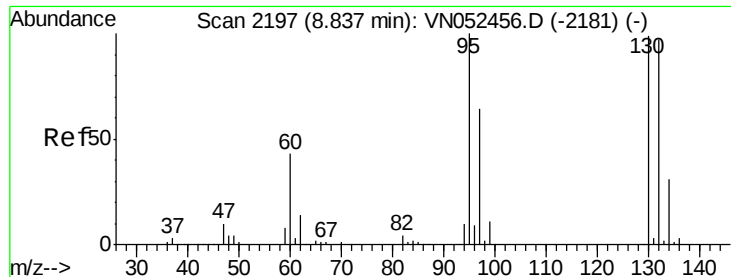
#36
1,2-Dichloroethane
Concen: 20.687 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	7.4	11.2



Abundance Ion 62.00 (61.70 to 62.70): VN0
Ion 98.00 (97.70 to 98.70): VN0





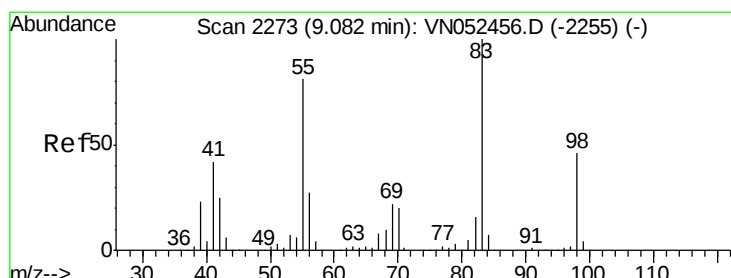
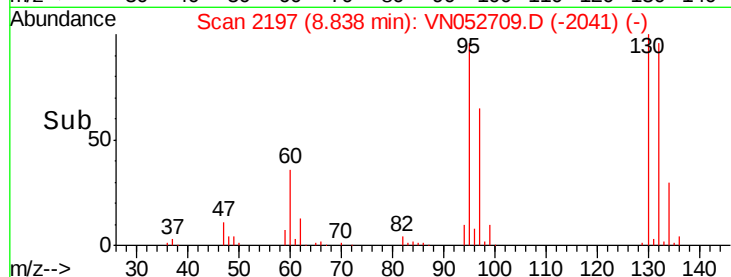
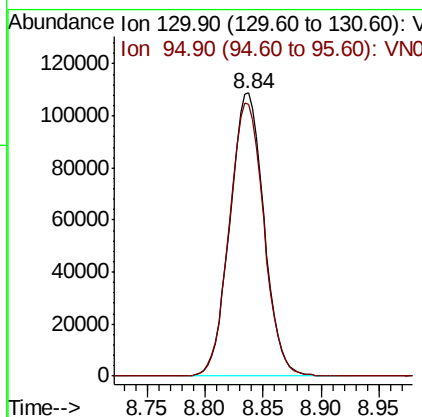
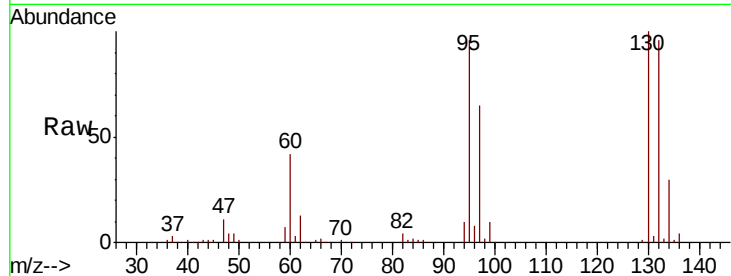
#37
 Trichloroethene
 Concen: 21.133 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion:130 Resp: 220749
 Ion Ratio Lower Upper
 130 100
 95 95.8 81.0 121.4

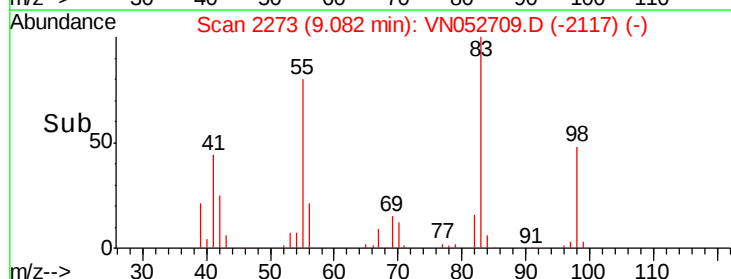
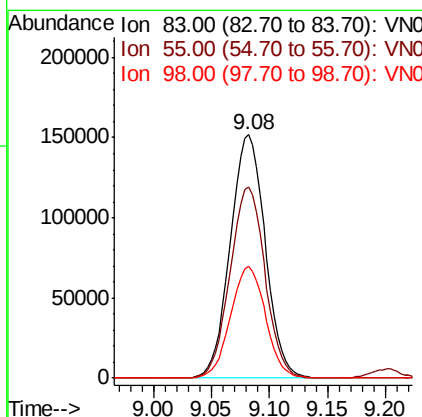
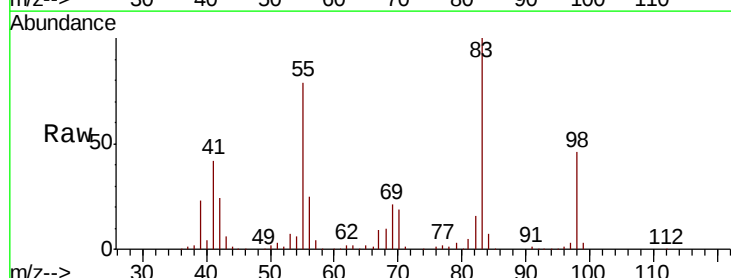
Manual Integrations
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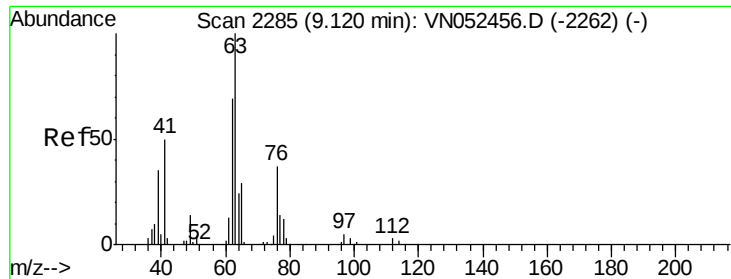
MMDadoda
 12/7/2018 1:13:00 PM



#38
 Methylcyclohexane
 Concen: 18.706 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Tgt Ion: 83 Resp: 317270
 Ion Ratio Lower Upper
 83 100
 55 78.4 39.8 119.4
 98 45.9 22.9 68.5





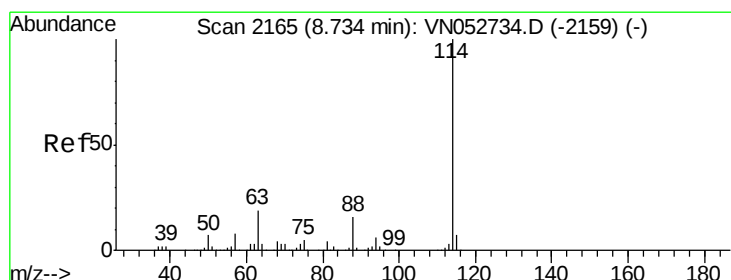
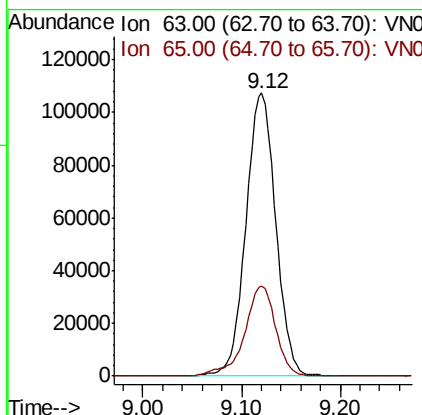
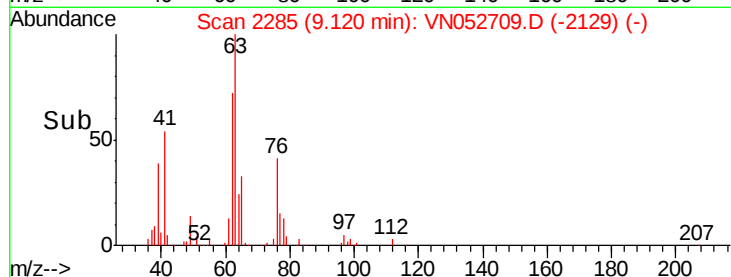
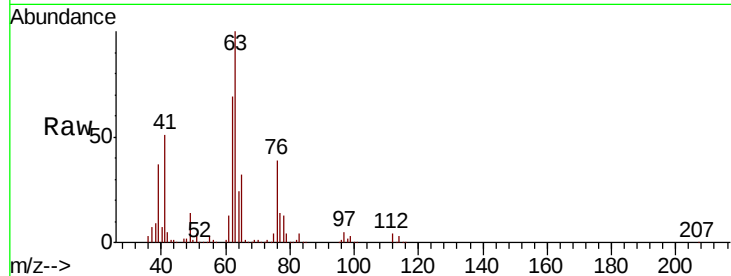
#39
 1,2-Dichloropropane
 Concen: 20.309 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	63	Resp	224265
Ion Ratio	100	Lower	Upper
63	100		
65	31.8	23.6	35.4

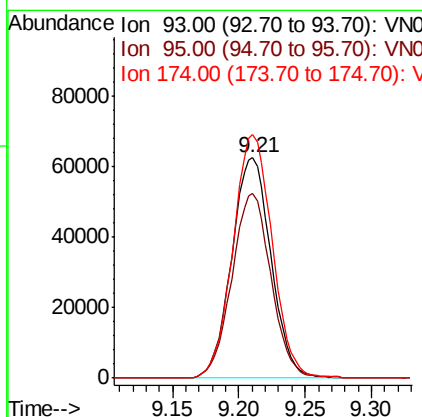
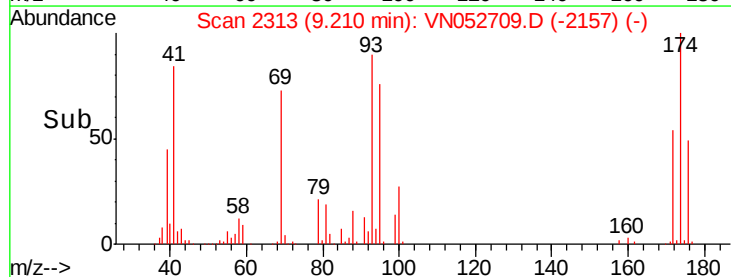
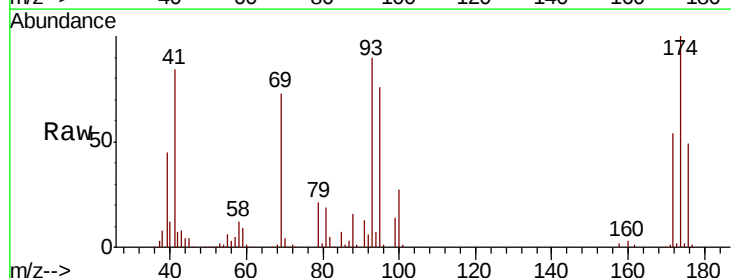
Manual Integrations
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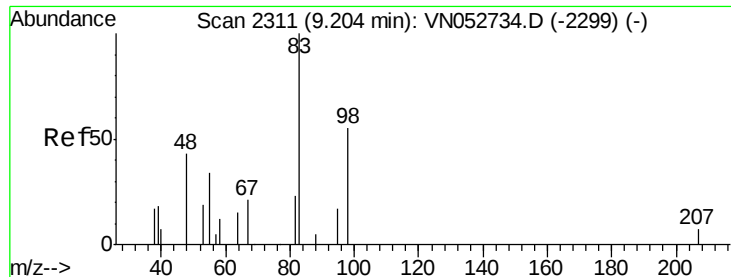
MMDadoda
 12/7/2018 1:13:00 PM



#40
 Dibromomethane
 Concen: 21.581 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Tgt Ion	93	Resp	128780
Ion Ratio	100	Lower	Upper
93	100		
95	83.6	0.0	168.4
174	110.6	0.0	210.0





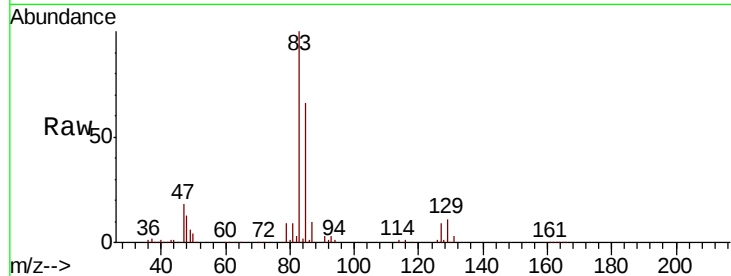
#41
Bromodichloromethane
Concen: 20.760 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

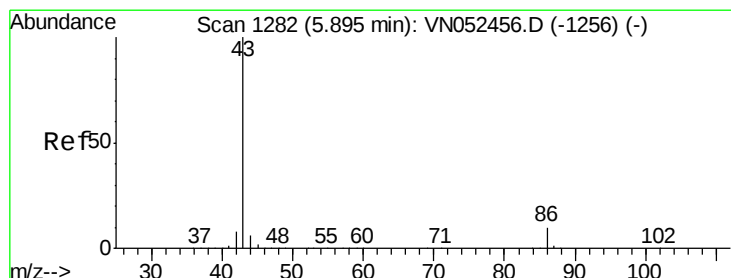
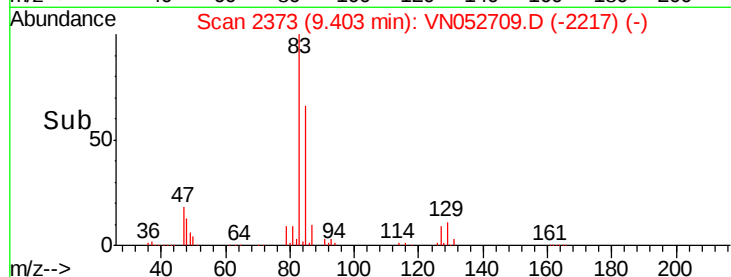
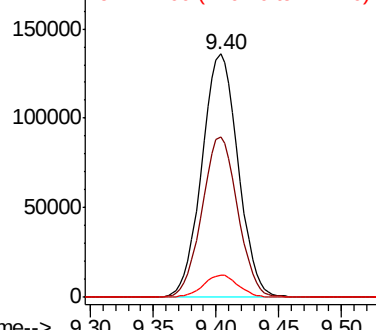
Tot Ion	83	Resp	273703
Ion Ratio	100	Lower	Upper
83	100		
85	65.9	52.4	78.6
127	9.1	6.6	9.8

Manual Integrations
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MMDadoda
12/7/2018 1:13:00 PM

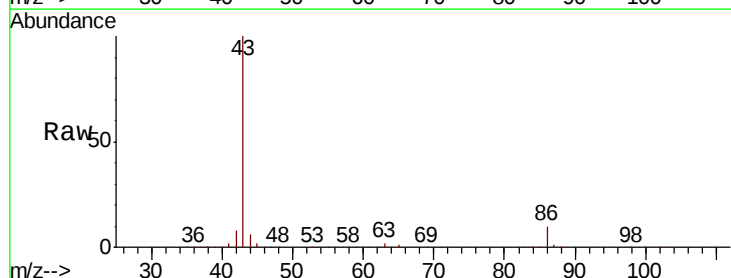


Abundance Ion 83.00 (82.70 to 83.70): VN052734.D (-2299) (-)

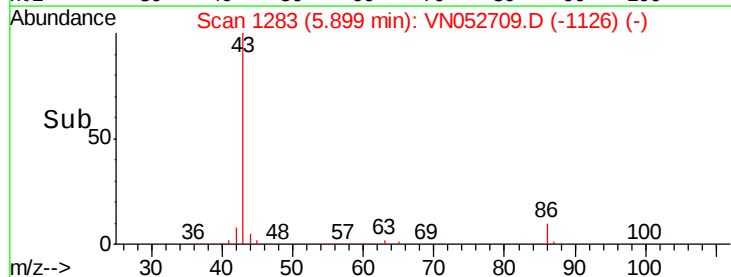
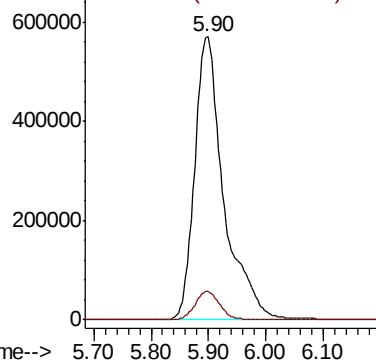


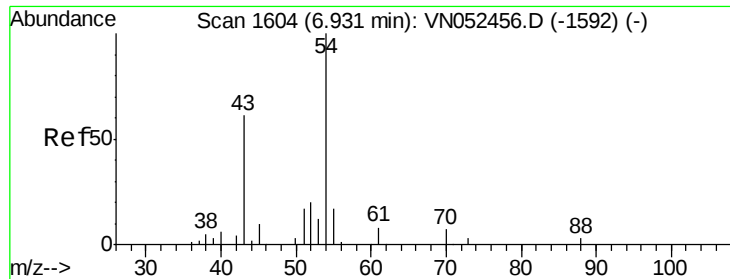
#42
Vinyl Acetate
Concen: 101.940 ug/l
RT: 5.90 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	43	Resp	2022192
Ion Ratio	100	Lower	Upper
43	100		
86	8.6	6.5	9.7



Abundance Ion 43.00 (42.70 to 43.70): VN052456.D (-1256) (-)





#43

Ethyl Acetate

Concen: 21.959 ug/l

RT: 6.93 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion: 43 Resp: 171196

Ion Ratio Lower Upper

43 100

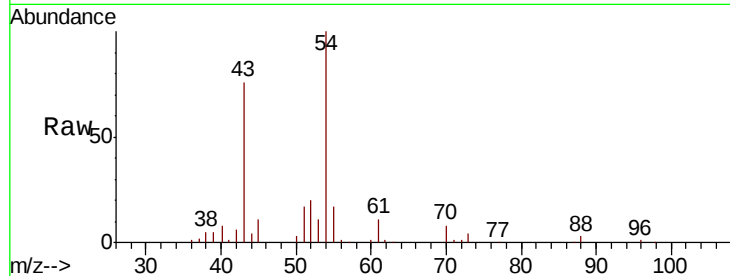
45 13.9 1.0 1.6#

Manual Integrations

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12/7/2018 1:13:00 PM



Abundance Ion 43.00 (42.70 to 43.70): VN052709.D (-1448) (-)

Ion 45.00 (44.70 to 45.70): VN052709.D (-1448) (-)

150000

100000

50000

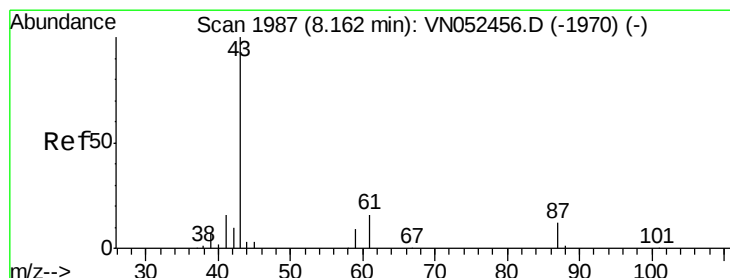
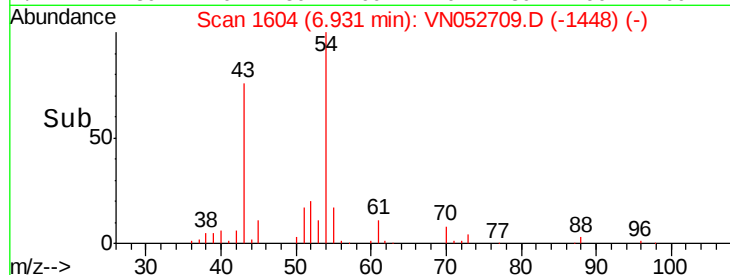
0

6.93

6.90

7.00

Time-->



#44

Isopropyl Acetate

Concen: 22.468 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052709.D

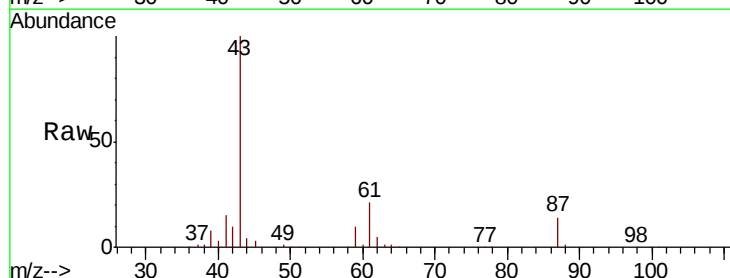
Acq: 6 Dec 2018 20:25

Tgt Ion: 43 Resp: 307205

Ion Ratio Lower Upper

43 100

61 20.2 16.0 24.0



Abundance Ion 43.00 (42.70 to 43.70): VN052709.D (-1831) (-)

Ion 61.00 (60.70 to 61.70): VN052709.D (-1831) (-)

150000

100000

50000

0

8.17

8.05

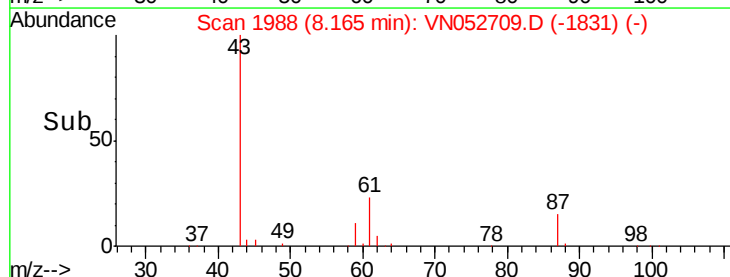
8.10

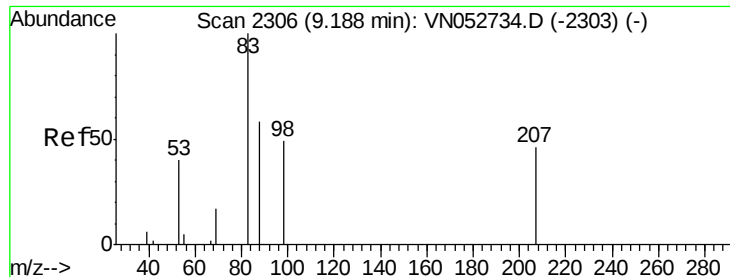
8.15

8.20

8.25

Time-->





#45

1,4-Dioxane

Concen: 424.258 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

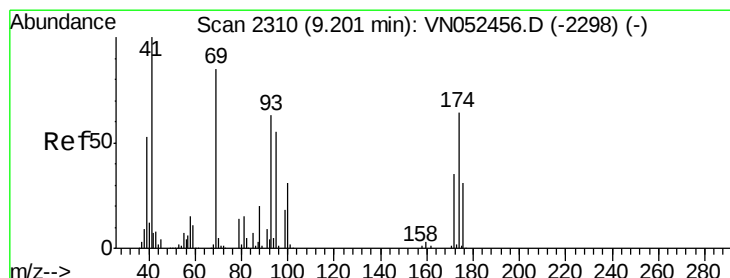
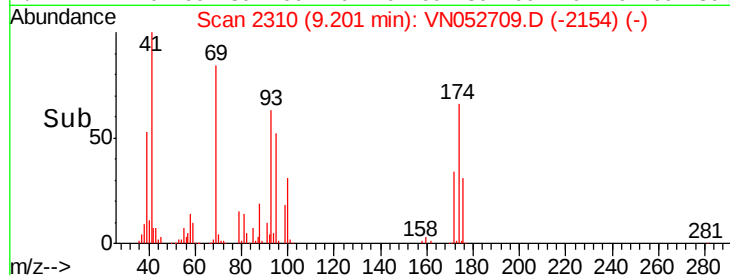
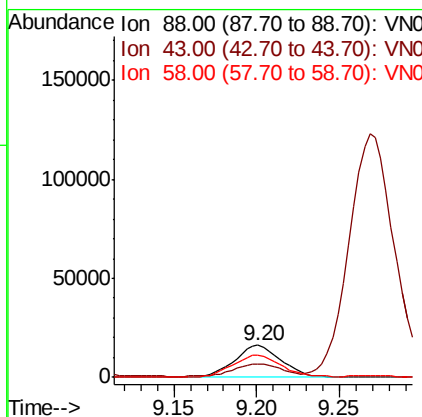
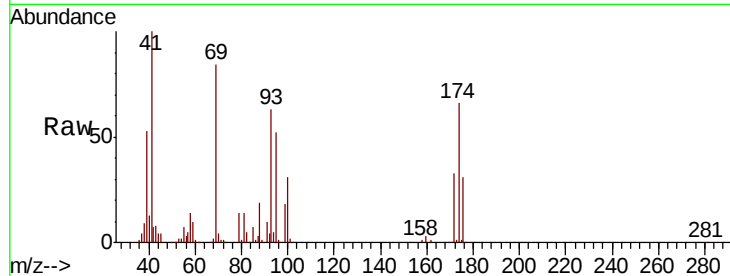
ClientSampleId :

VSTDCCC020

Tot Ion:	88	Resp:	31734
Ion	Ratio	Lower	Upper
88	100		
43	40.4	29.5	44.3
58	72.2	61.5	92.3

Manual Integrations
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MMDadoda
12/7/2018 1:13:00 PM



#46

Methyl methacrylate

Concen: 21.589 ug/l

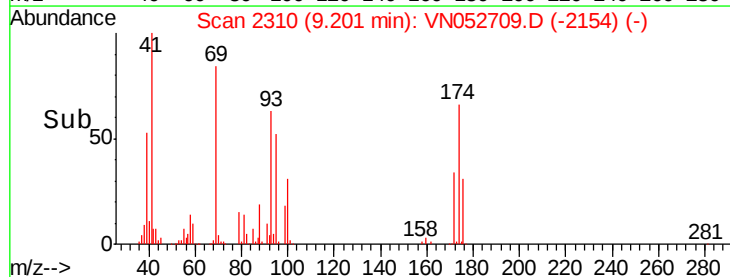
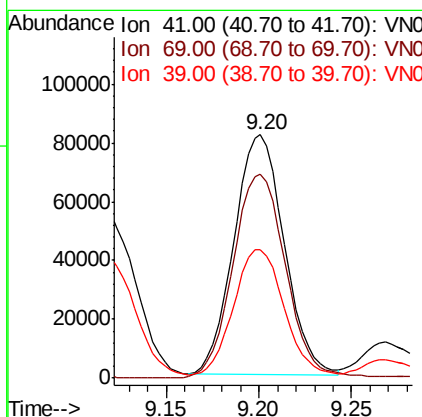
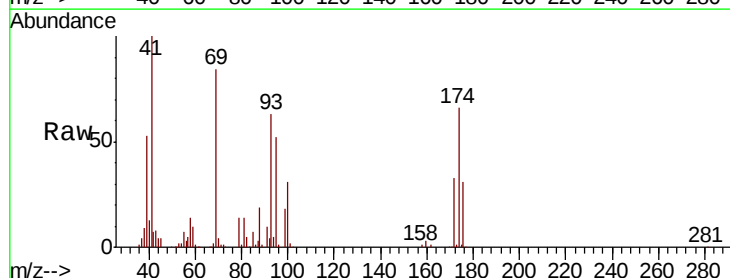
RT: 9.20 min Scan# 2310

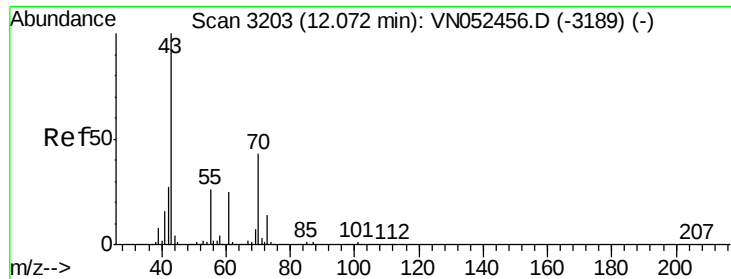
Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Tgt Ion:	41	Resp:	153266
Ion	Ratio	Lower	Upper
41	100		
69	84.7	42.5	127.6
39	52.2	26.3	78.9





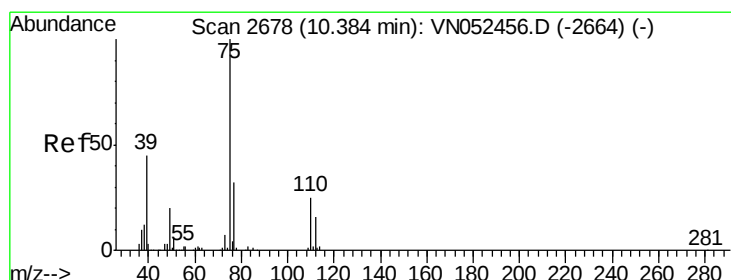
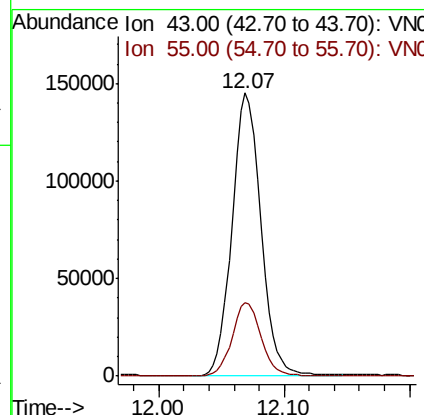
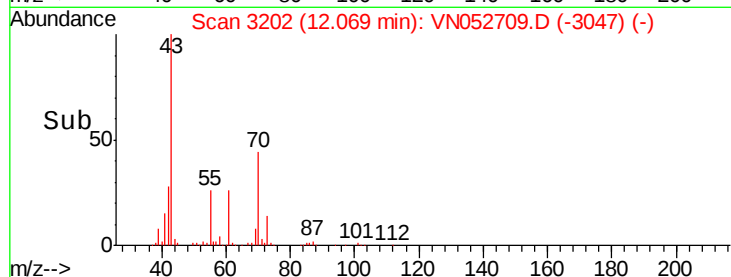
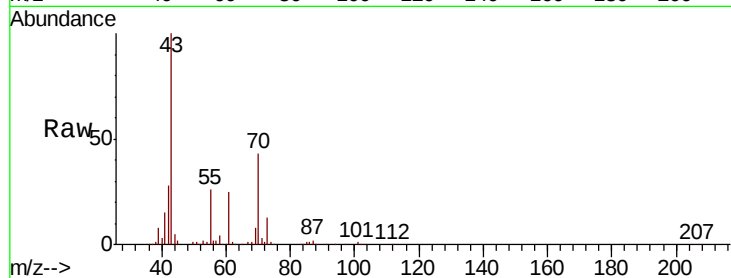
#47
n-amvl Acetate
Concen: 20.377 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 43 Resp: 231006
Ion Ratio Lower Upper
43 100
55 26.2 21.1 31.7

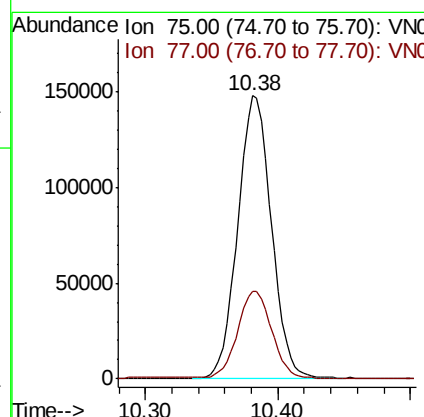
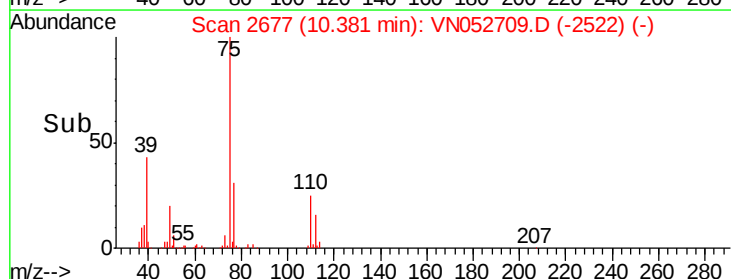
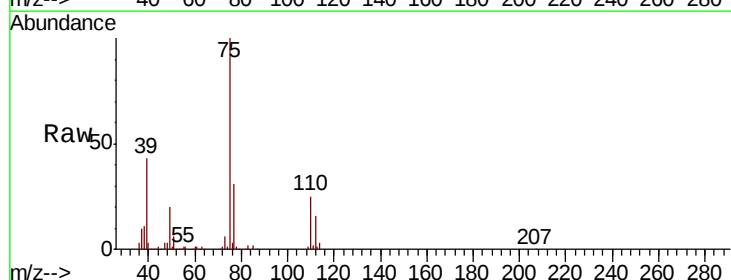
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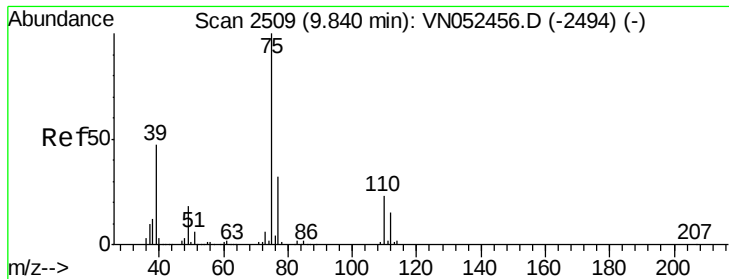
MMDadoda
12/7/2018 1:13:00 PM



#48
t-1,3-Dichloropropene
Concen: 20.437 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion: 75 Resp: 261258
Ion Ratio Lower Upper
75 100
77 30.9 25.6 38.4





#49

cis-1,3-Dichloropropene

Concen: 20.016 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

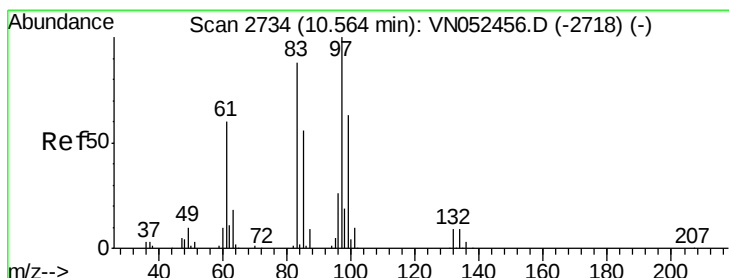
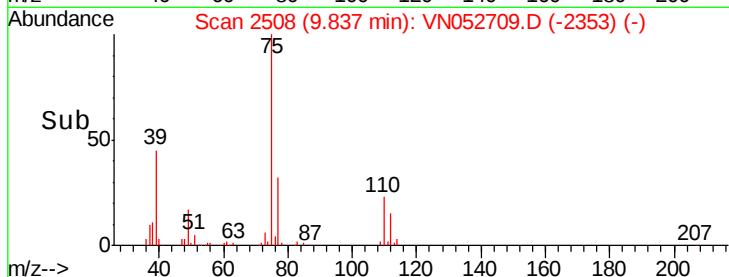
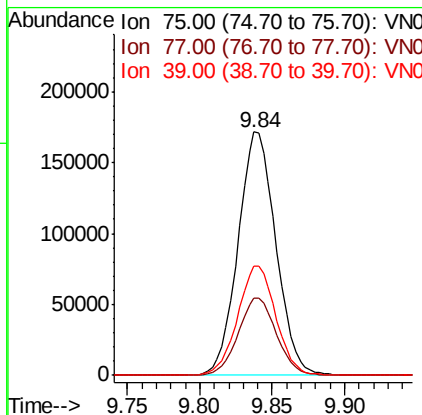
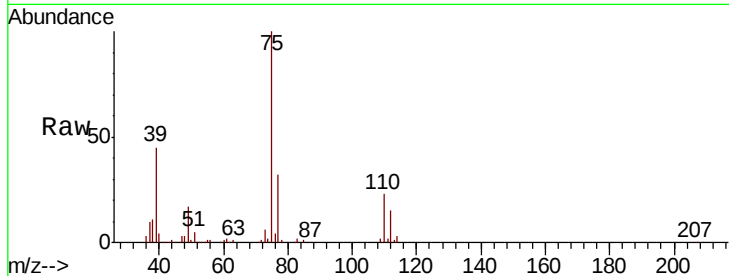
ClientSampleId :

VSTDCCC020

Tot Ion:	75	Resp:	311734
Ion Ratio	Lower	Upper	
75	100		
77	31.8	25.4	38.0
39	44.7	37.3	55.9

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12/7/2018 1:13:00 PM



#50

1,1,2-Trichloroethane

Concen: 21.973 ug/l

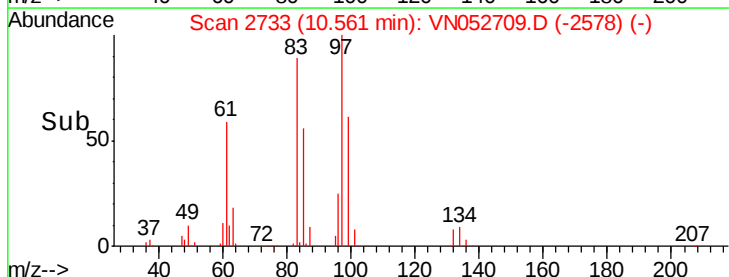
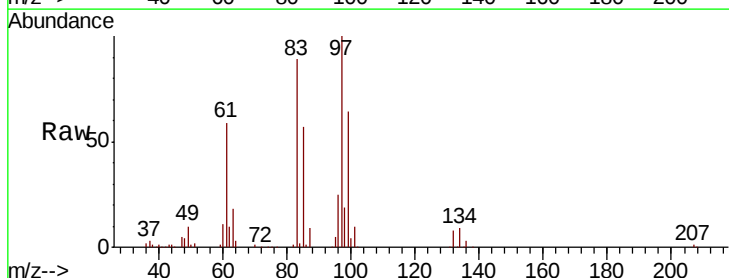
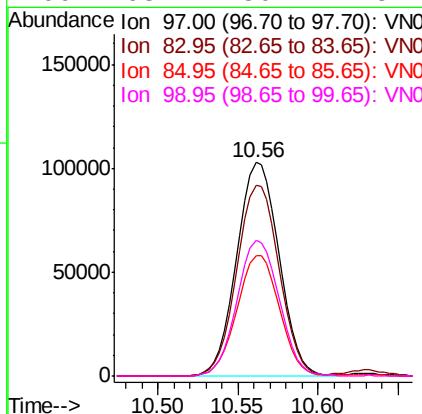
RT: 10.56 min Scan# 2733

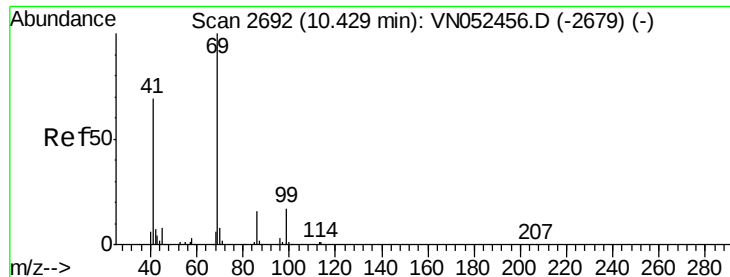
Delta R.T. -0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Tgt Ion:	97	Resp:	185862
Ion Ratio	Lower	Upper	
97	100		
83	89.2	70.4	105.6
85	56.5	45.0	67.6
99	63.4	50.2	75.2





#51

Ethyl methacrylate

Concen: 21.317 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

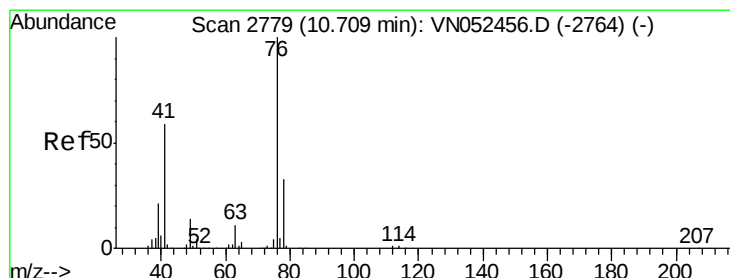
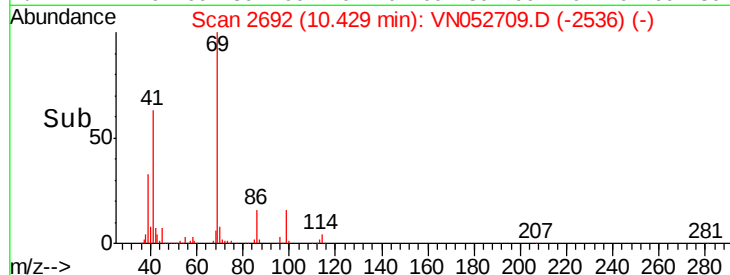
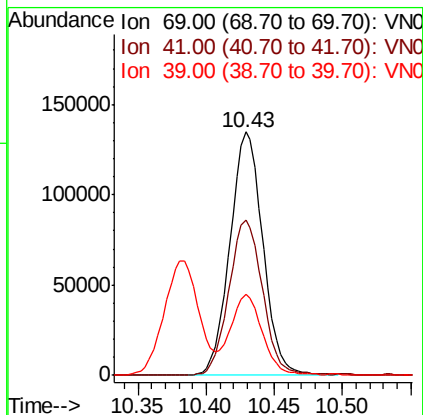
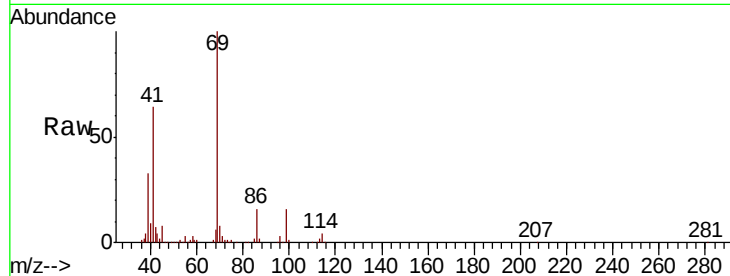
ClientSampled :

VSTDCCC020

Tot Ion:	69	Resp:	226464
Ion	Ratio	Lower	Upper
69	100		
41	63.3	34.4	103.3
39	32.7	16.4	49.2

Manual Integrations
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12/7/2018 1:13:00 PM



#52

1,3-Dichloropropane

Concen: 21.286 ug/l

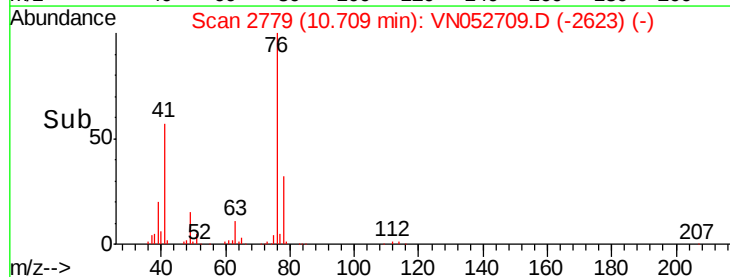
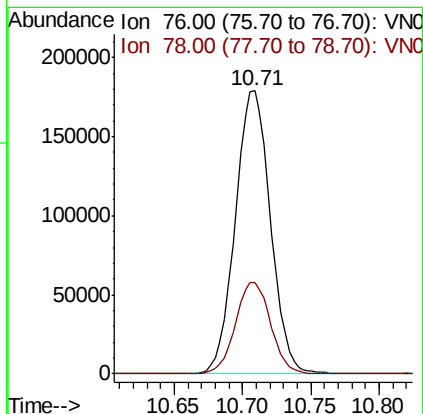
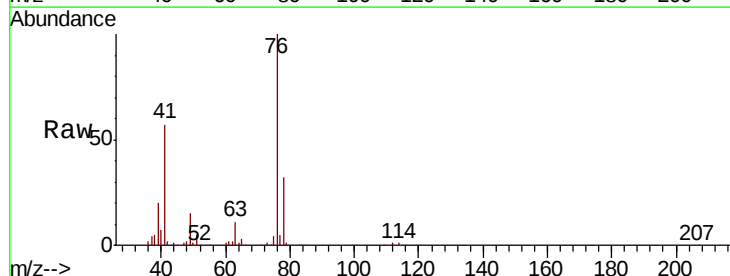
RT: 10.71 min Scan# 2779

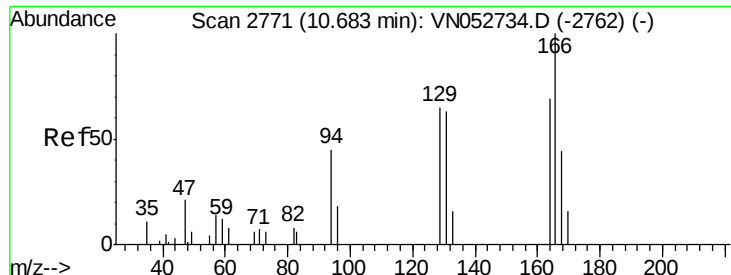
Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Tgt Ion:	76	Resp:	320478
Ion	Ratio	Lower	Upper
76	100		
78	32.3	0.0	64.8





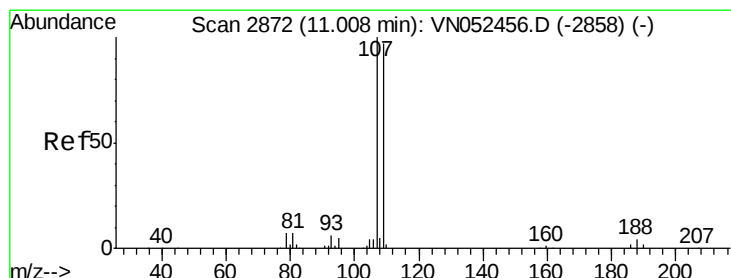
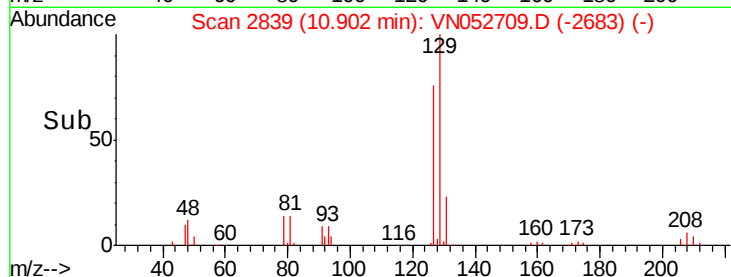
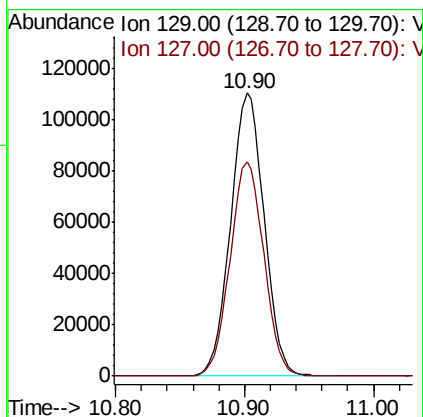
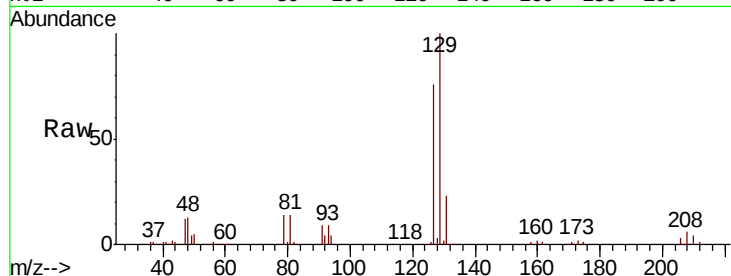
#53
Dibromochloromethane
Concen: 21.425 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion:129 Resp: 199523
Ion Ratio Lower Upper
129 100
127 76.2 37.6 112.8

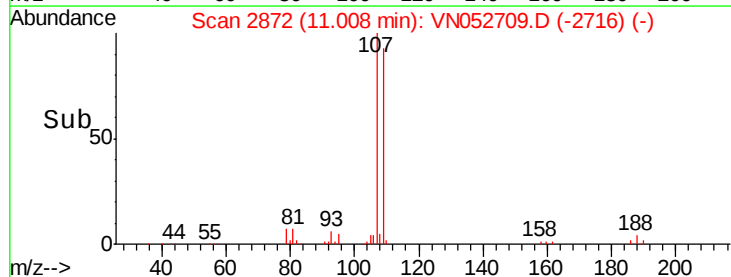
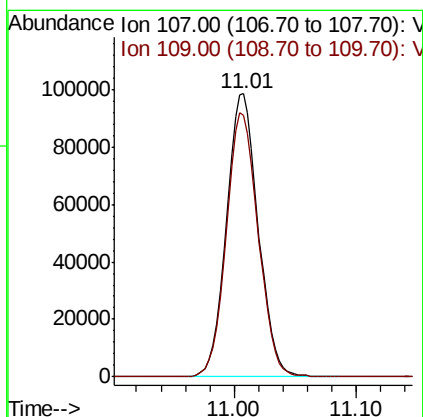
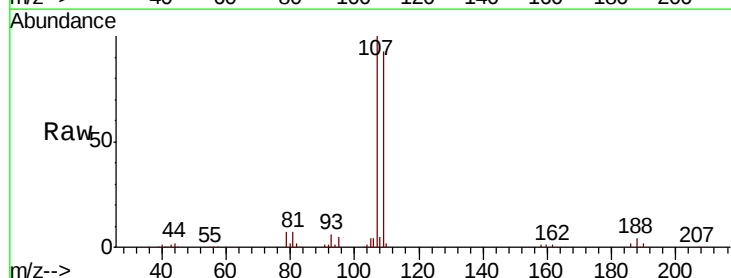
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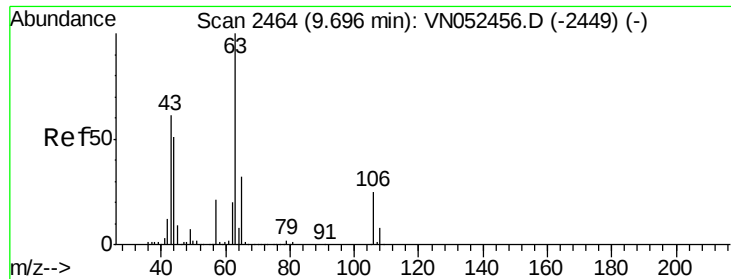
MMDadoda
12/7/2018 1:13:00 PM



#54
1,2-Dibromoethane
Concen: 21.599 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion:107 Resp: 178528
Ion Ratio Lower Upper
107 100
109 94.0 77.1 115.7





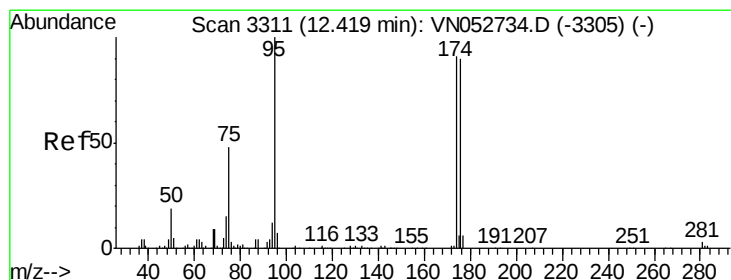
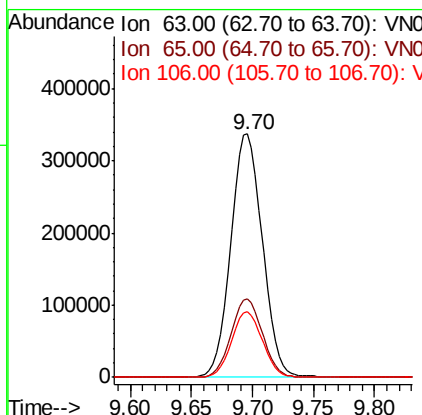
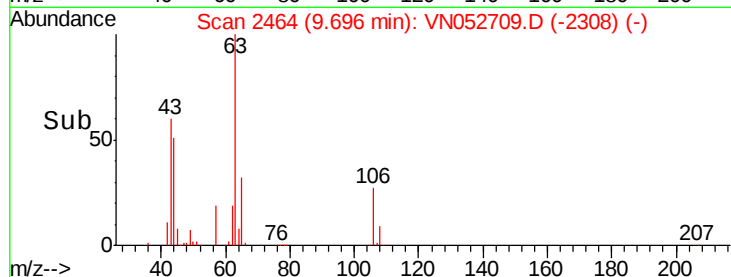
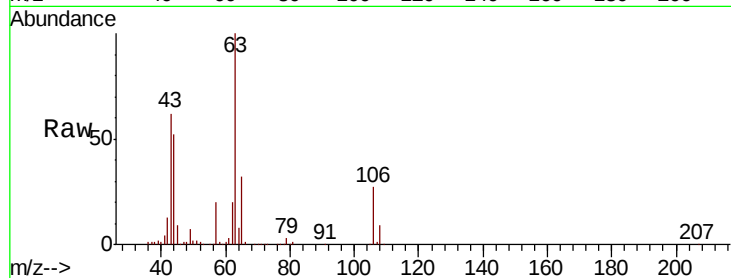
#55
2-Chloroethyl vinyl ether
Concen: 97.918 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.4	38.2
106	26.5	20.4	30.6

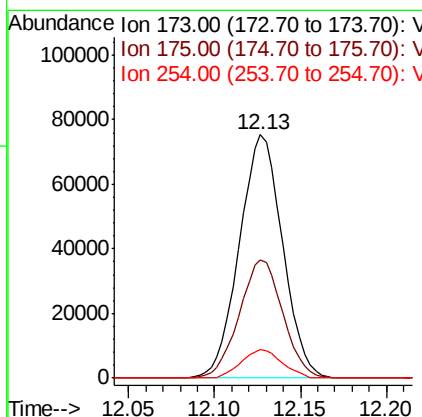
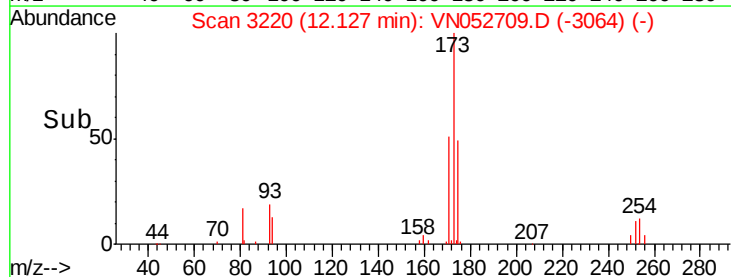
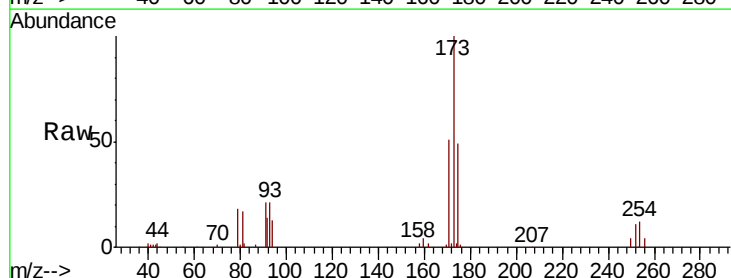
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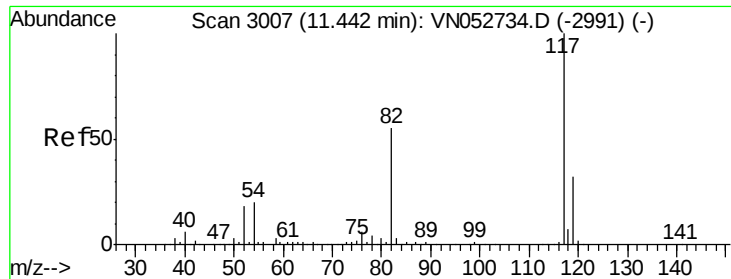
MMDadoda
12/7/2018 1:13:00 PM



#56
Bromoform
Concen: 21.552 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.9	38.7	58.1
254	11.0	8.4	12.6





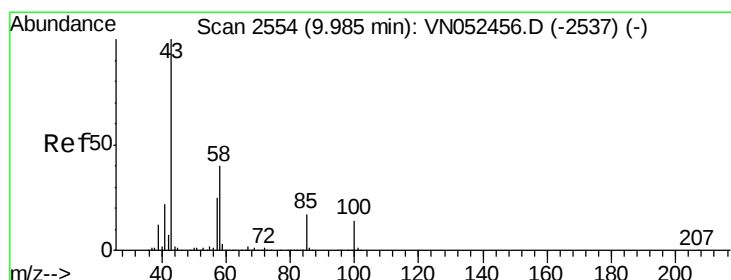
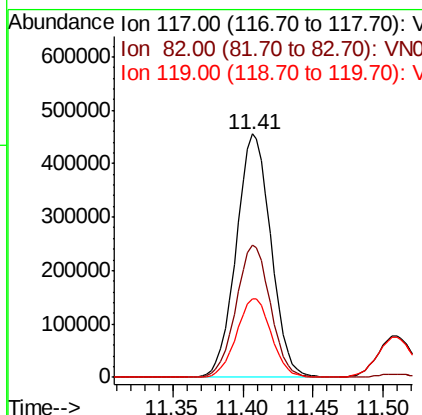
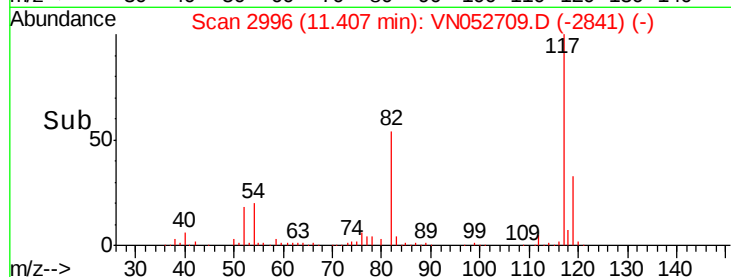
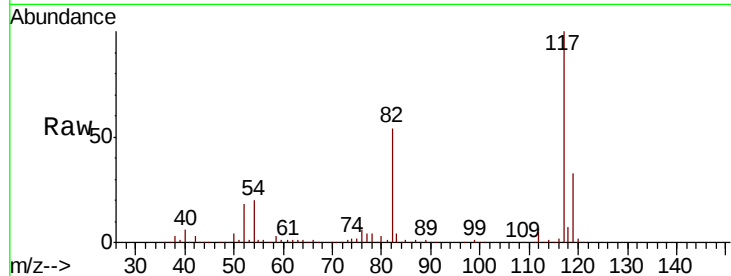
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.9	44.2	66.2
119	32.4	25.4	38.2

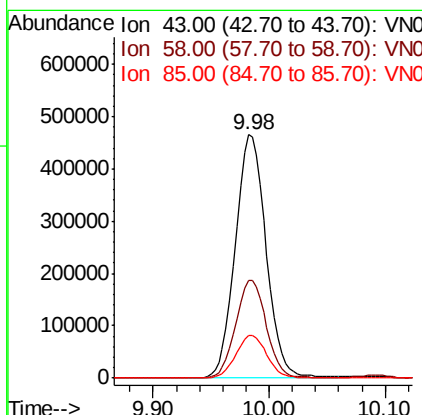
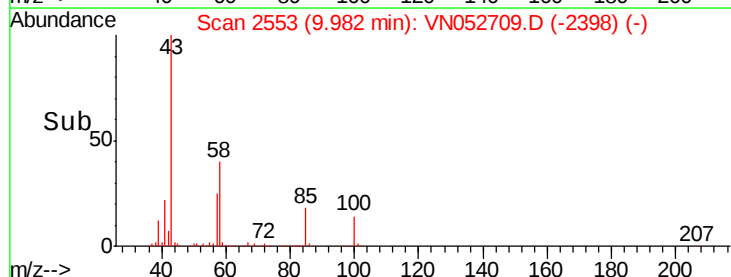
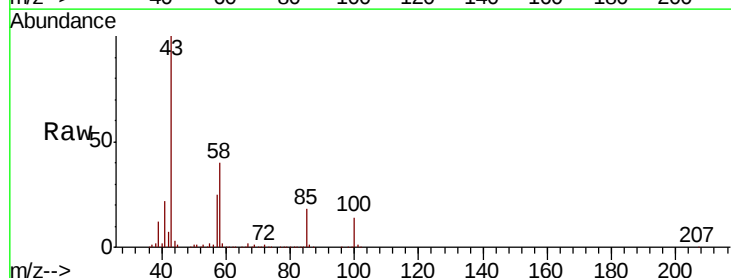
Manual Integrations
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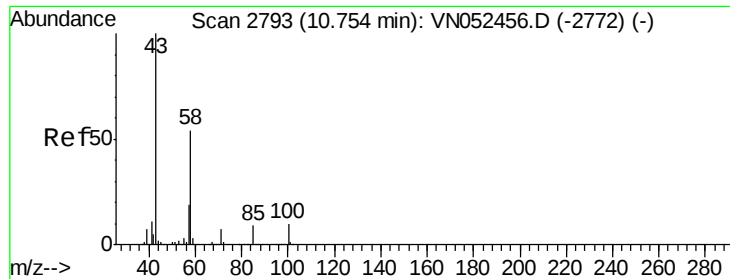
MMDadoda
12/7/2018 1:13:00 PM



#58
4-Methyl-2-Pentanone
Concen: 111.947 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.2	31.6	47.4
85	17.7	13.3	19.9





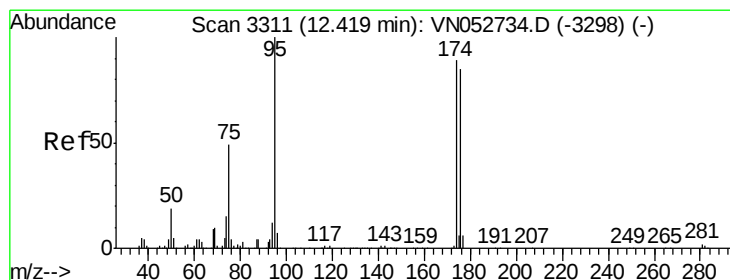
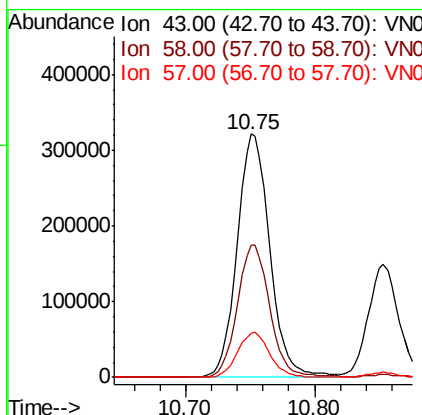
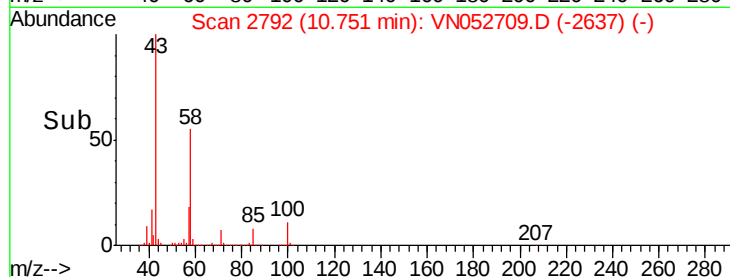
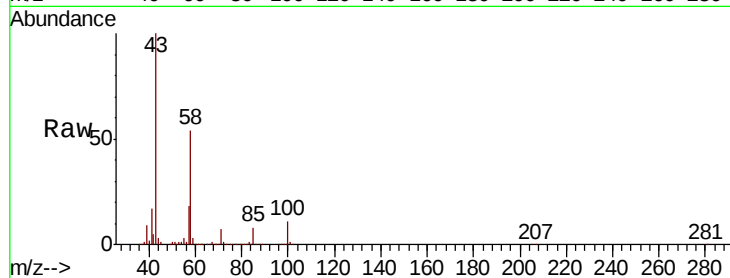
#59
2-Hexanone
Concen: 108.511 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.3	43.2	64.8
57	18.3	14.9	22.3

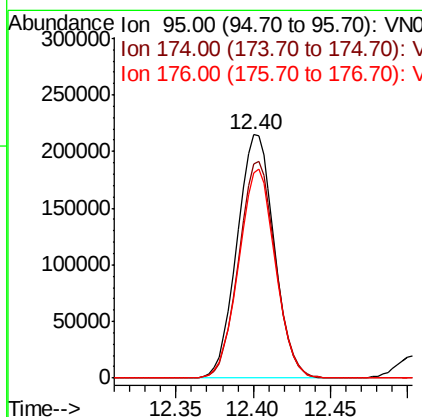
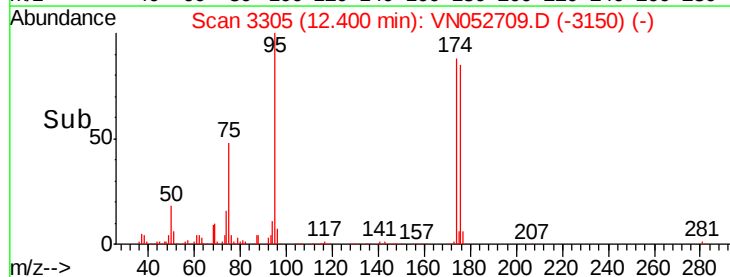
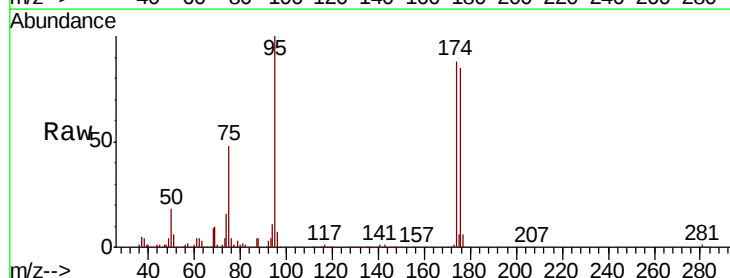
Manual Integrations
APPROVED

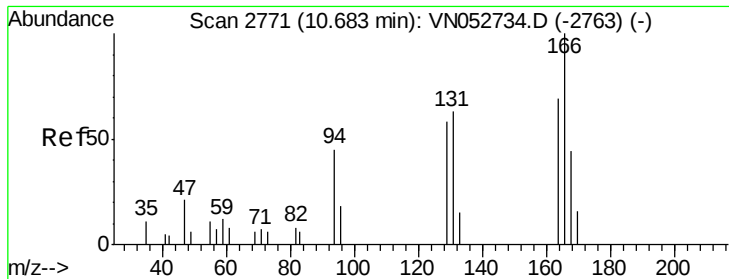
MMDadoda
12/7/2018 1:13:00 PM



#60
4-Bromofluorobenzene
Concen: 108.511 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.9	67.9	101.9
176	84.8	66.4	99.6





#61

Tetrachloroethene

Concen: 22.964 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:164 Resp: 222302

Ion Ratio Lower Upper

164 100

166 127.4 104.6 157.0

129 90.7 75.3 112.9

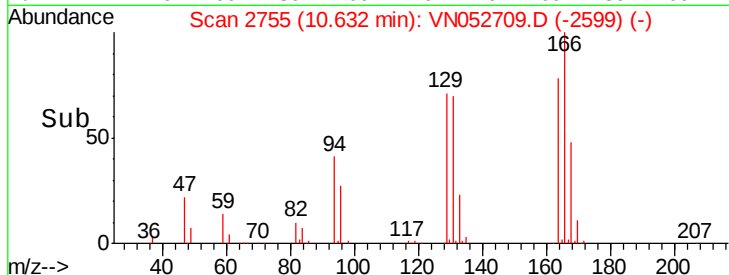
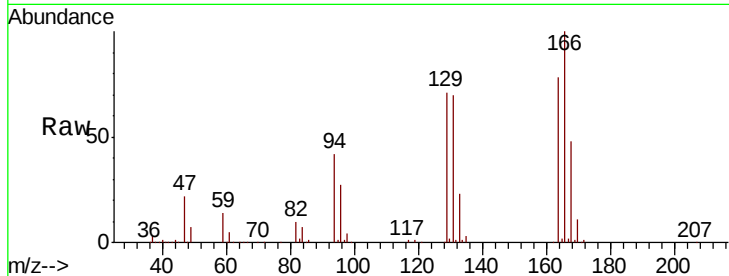
131 88.6 74.3 111.5

Manual Integrations

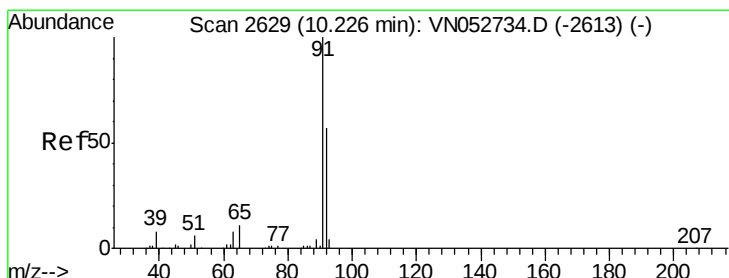
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12/7/2018 1:13:00 PM



Time-->



#62

Toluene

Concen: 20.814 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052709.D

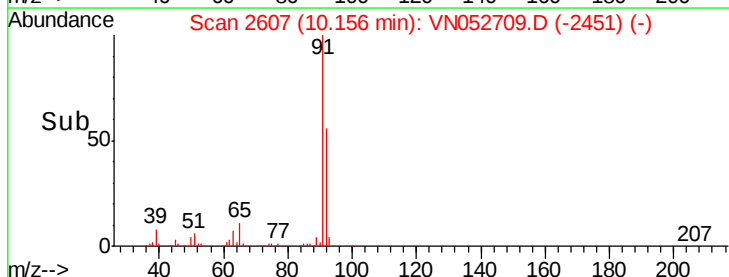
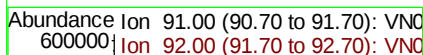
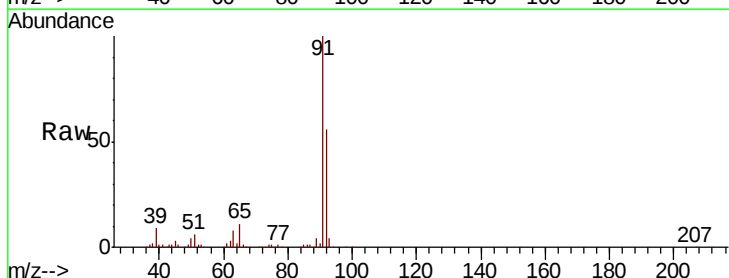
Acq: 6 Dec 2018 20:25

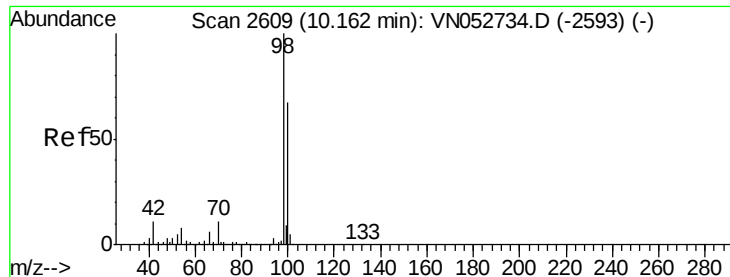
Tgt Ion: 91 Resp: 901871

Ion Ratio Lower Upper

91 100

92 56.9 45.4 68.2





#63

Toluene-d8

Concen: 20.814 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 98 Resp: 1082079

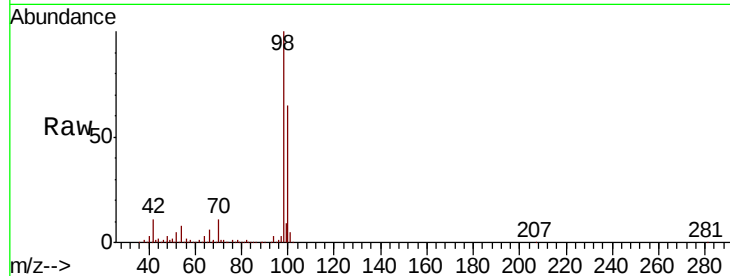
Ion Ratio Lower Upper

98 100

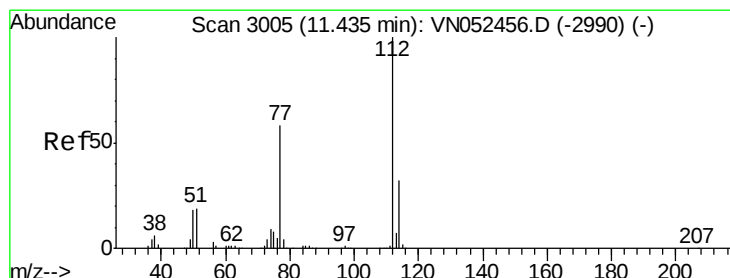
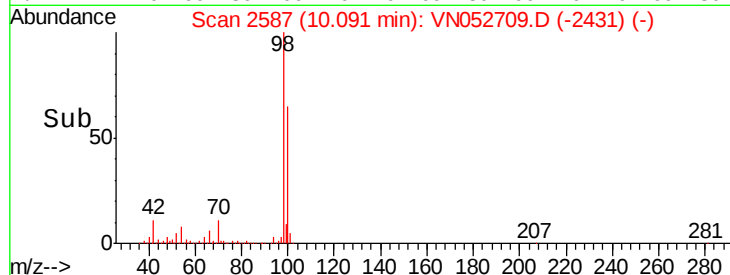
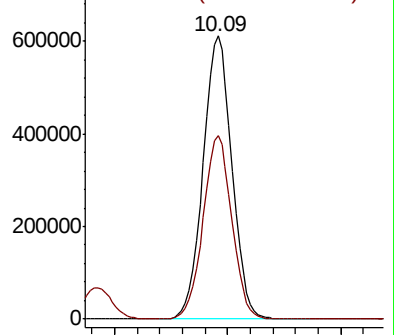
100 64.5 51.1 76.7

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Abundance Ion 98.00 (97.70 to 98.70): VN052709.D (-2593) (-)



#64

Chlorobenzene

Concen: 21.074 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN052709.D

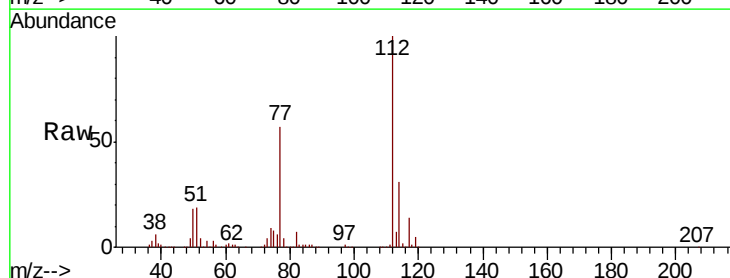
Acq: 6 Dec 2018 20:25

Tgt Ion: 112 Resp: 557328

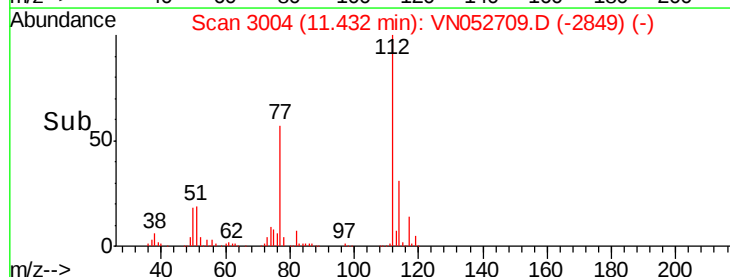
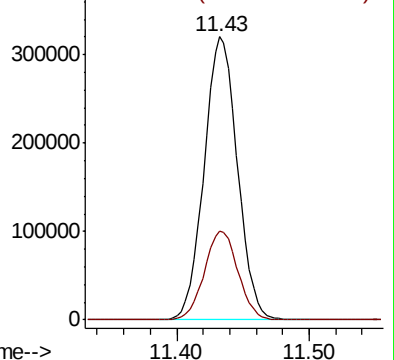
Ion Ratio Lower Upper

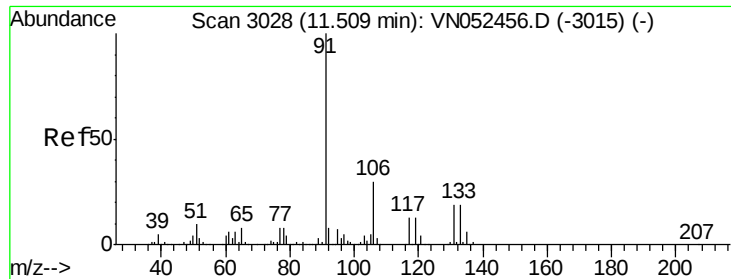
112 100

114 31.3 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): VN052709.D (-2849) (-)





#65

1,1,1,2-Tetrachloroethane

Concen: 21.413 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

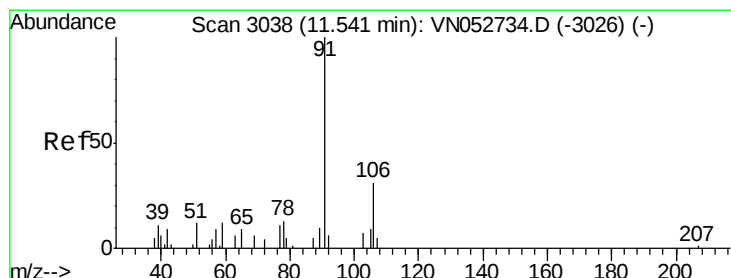
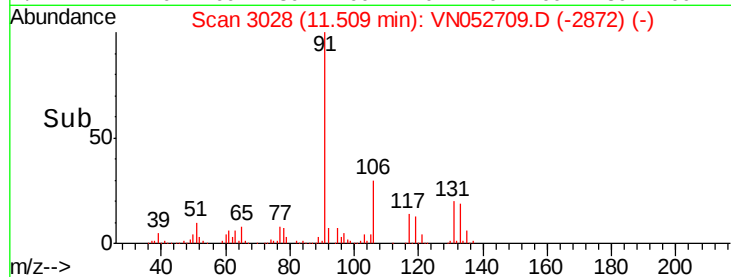
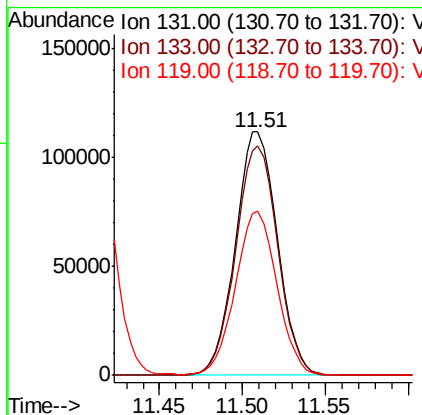
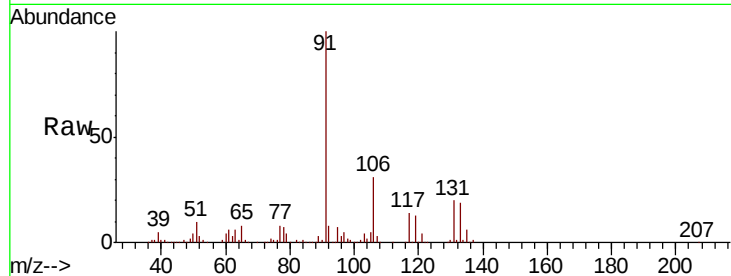
ClientSampleId :

VSTDCCC020

Tot Ion:	131	Resp:	196568
Ion Ratio	Lower	Upper	
131	100		
133	94.7	0.0	193.4
119	66.7	0.0	133.0

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12/7/2018 1:13:00 PM



#66

Ethyl Benzene

Concen: 20.478 ug/l

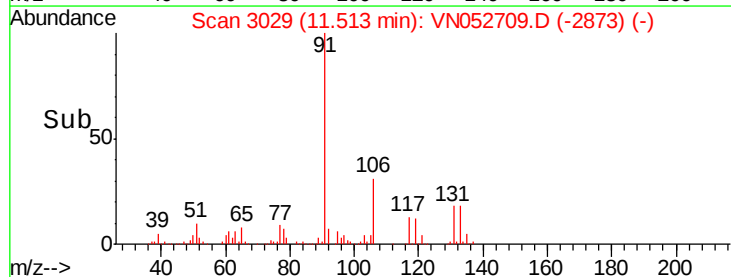
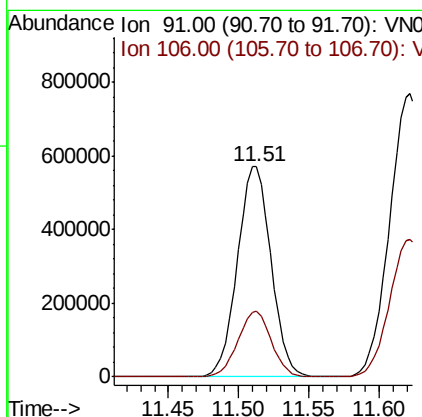
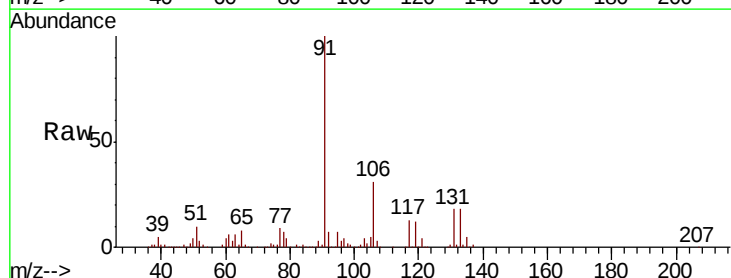
RT: 11.51 min Scan# 3029

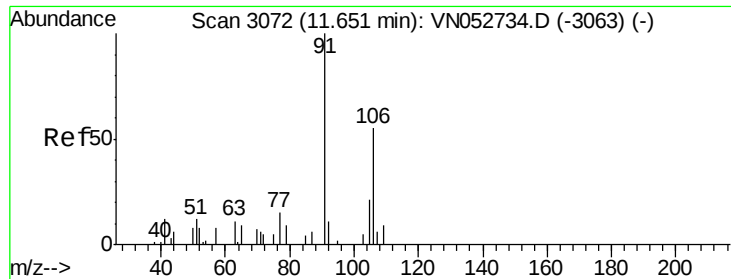
Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Tgt Ion:	91	Resp:	956290
Ion Ratio	Lower	Upper	
91	100		
106	31.1	24.3	36.5





#67

m/p-Xylenes

Concen: 41.684 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion:106 Resp: 725222

Ion Ratio Lower Upper

106 100

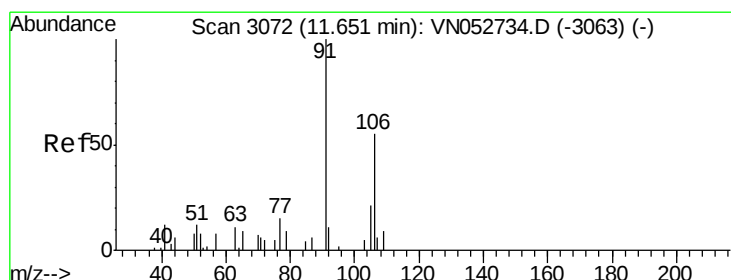
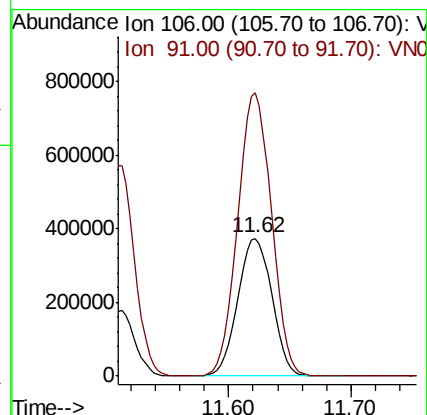
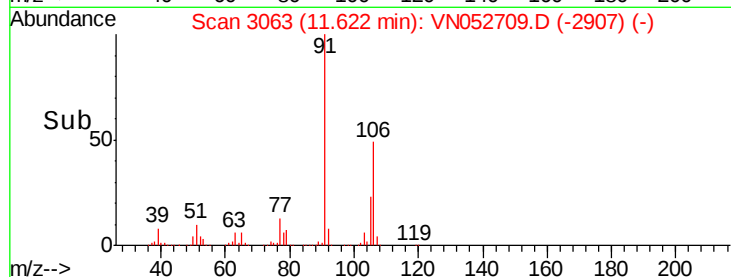
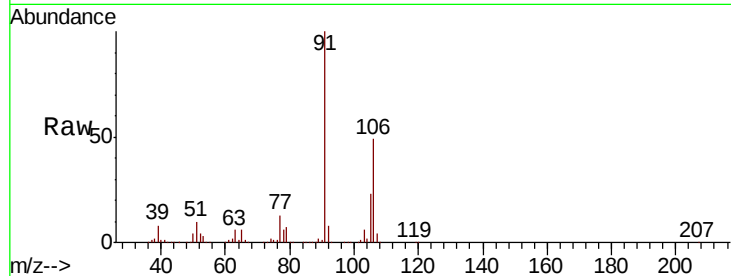
91 203.7 163.9 245.9

Manual Integrations

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12/7/2018 1:13:00 PM



#68

o-Xylene

Concen: 20.949 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN052709.D

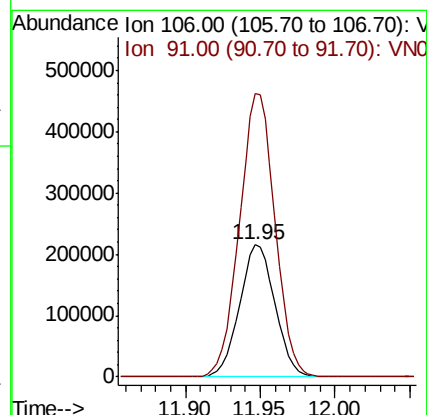
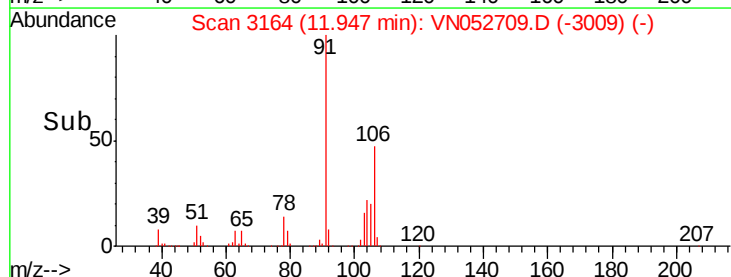
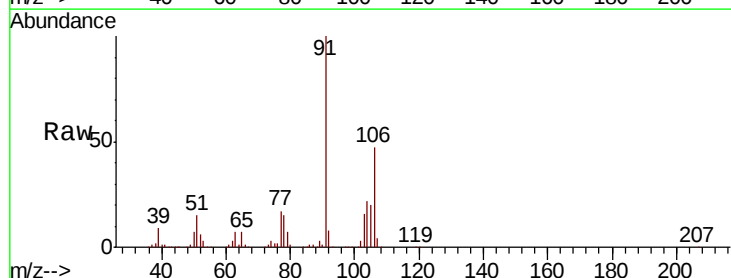
Acq: 6 Dec 2018 20:25

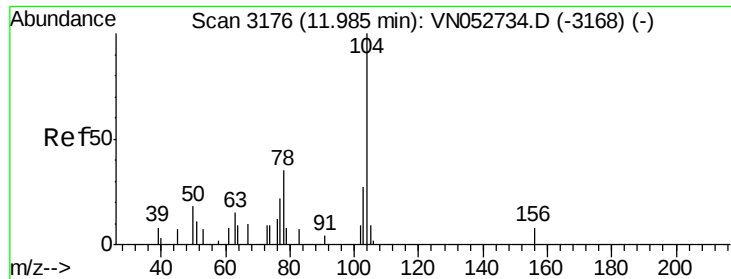
Tgt Ion:106 Resp: 353751

Ion Ratio Lower Upper

106 100

91 215.6 107.8 323.4





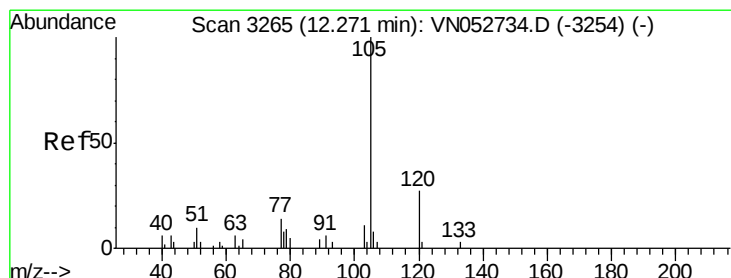
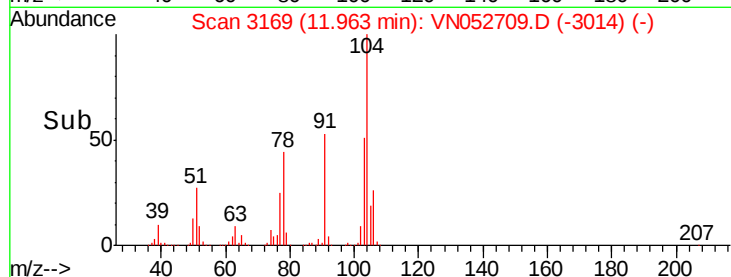
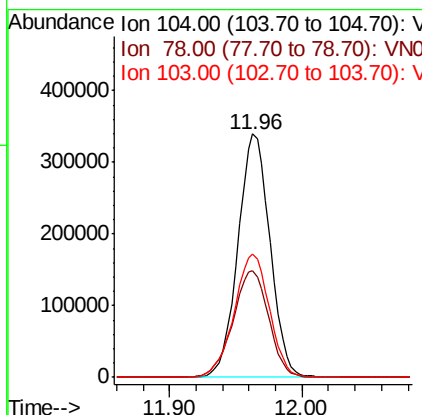
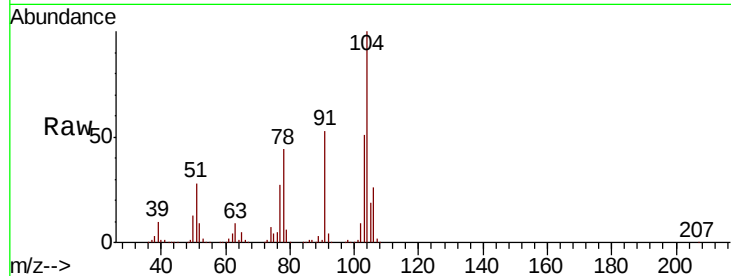
#69
Stvrene
Concen: 20.924 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
104	100	570320		
78	48.9		39.3	58.9
103	55.6		44.6	66.8

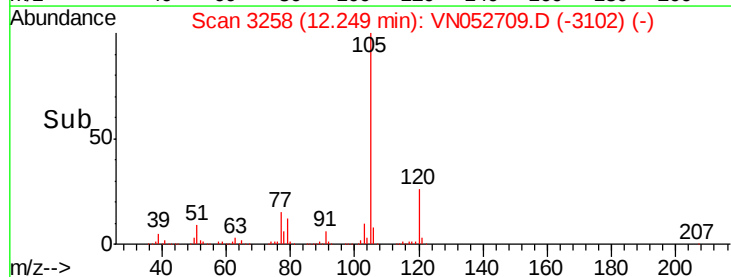
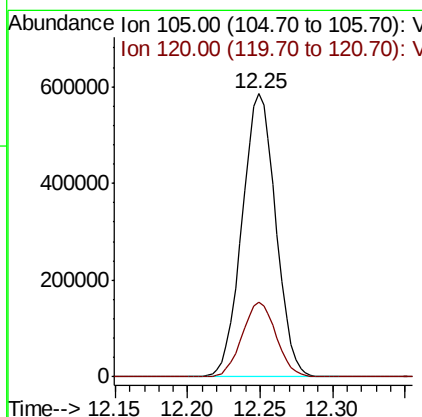
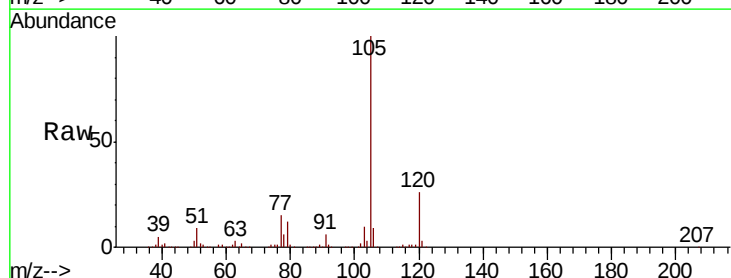
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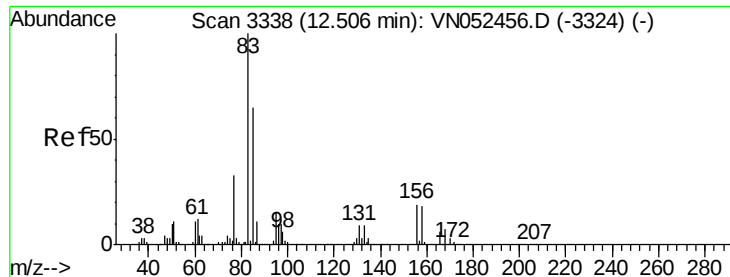
MMDadoda
12/7/2018 1:13:00 PM



#70
Isopropylbenzene
Concen: 21.060 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	946229		
120	26.6		18.6	34.6





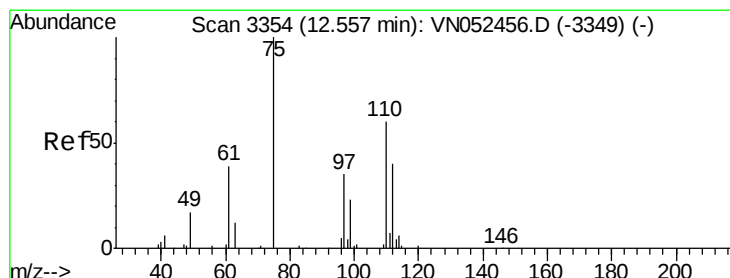
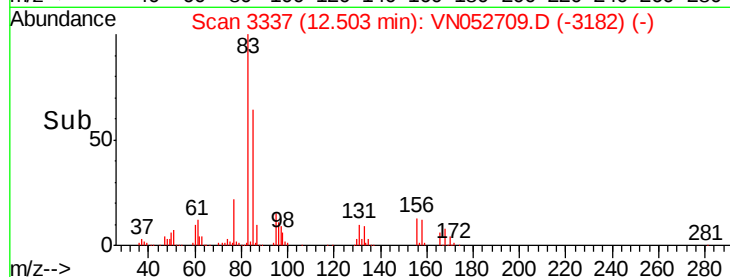
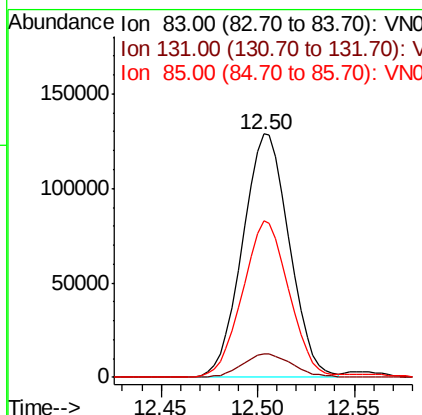
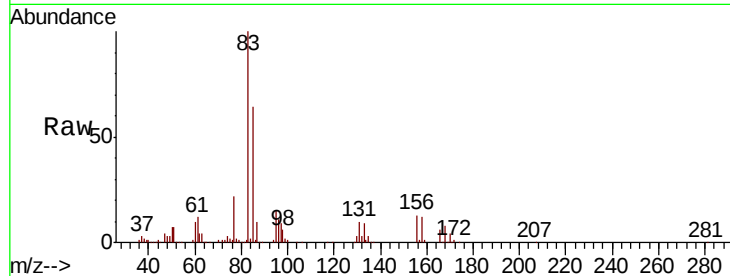
#71
 1,1,2,2-Tetrachloroethane
 Concen: 22.154 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.2	4.9	14.6
85	63.7	32.2	96.6

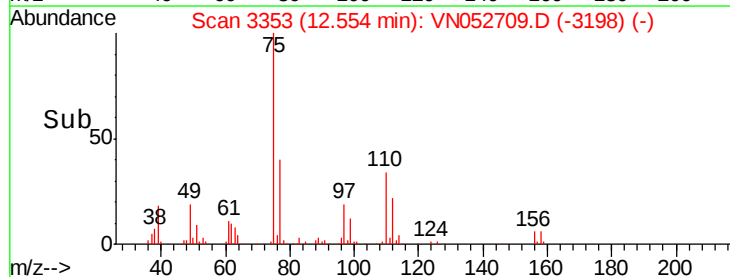
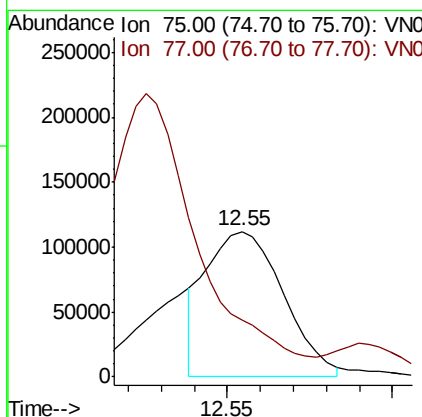
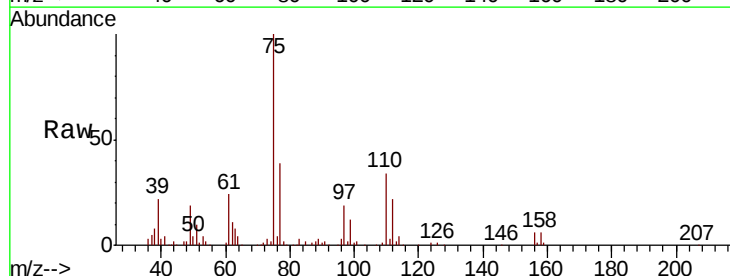
Manual Integrations
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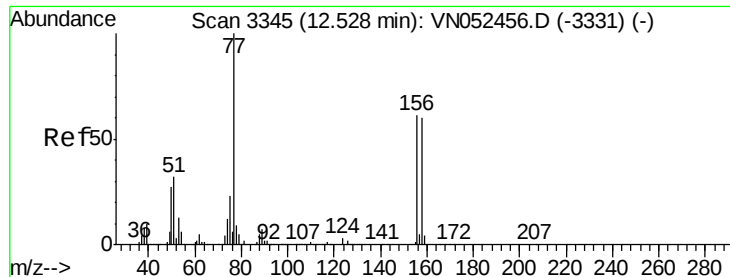
MMDadoda
 12/7/2018 1:13:00 PM



#72
 1,2,3-Trichloropropane
 Concen: 21.672 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
75	100		
77	235.9	0.0	514.8





#73

Bromobenzene

Concen: 21.454 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

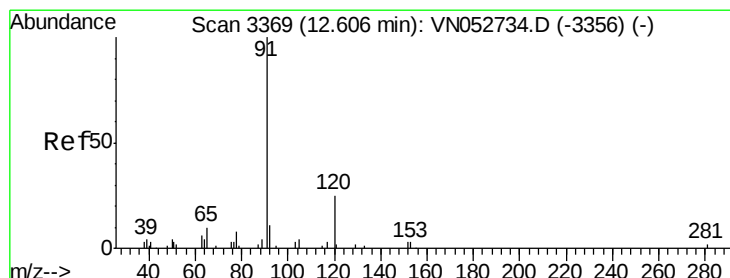
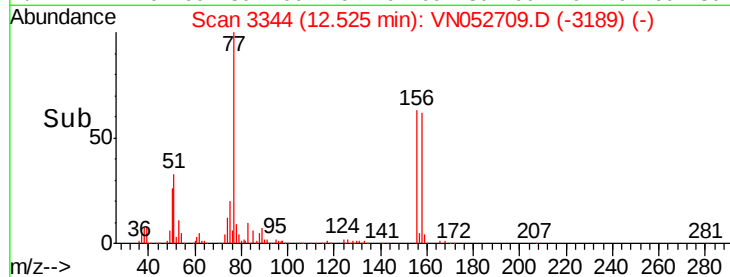
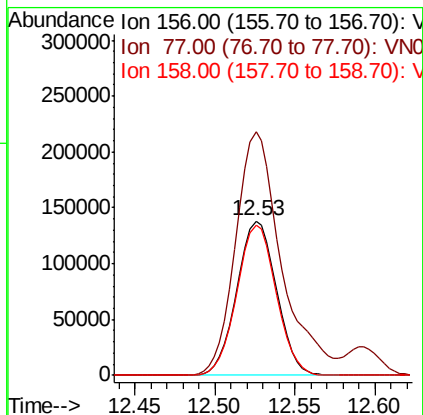
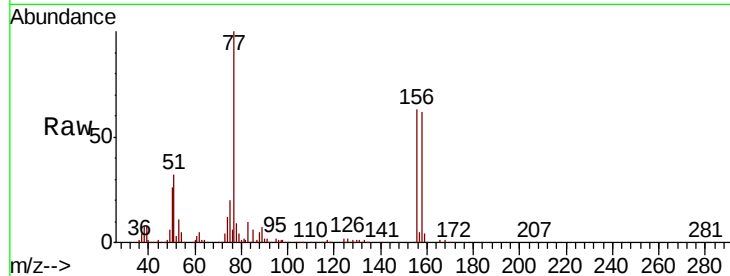
ClientSampled :

VSTDCCC020

Tot Ion:	156	Resp:	233129
Ion Ratio	Lower	Upper	
156	100		
77	184.0	0.0	382.6
158	97.1	0.0	196.8

Manual Integrations
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MMDadoda
12/7/2018 1:13:00 PM



#74

n-propylbenzene

Concen: 20.197 ug/l

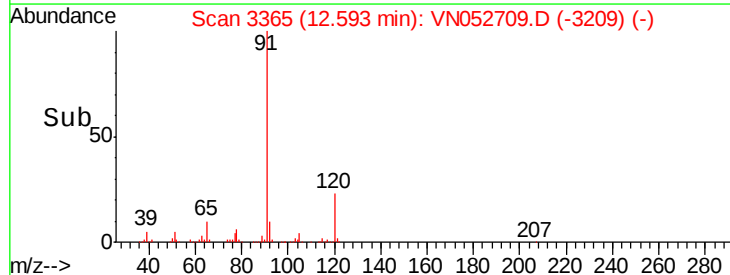
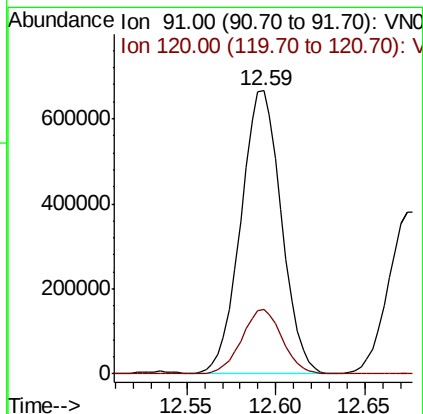
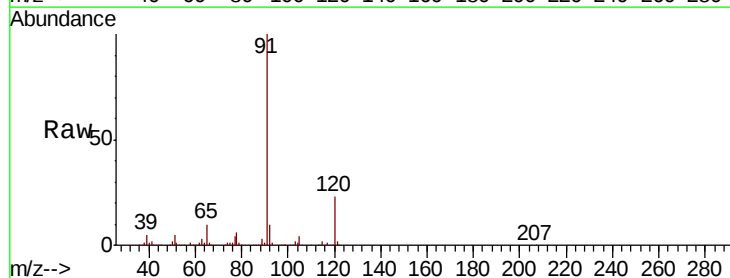
RT: 12.59 min Scan# 3365

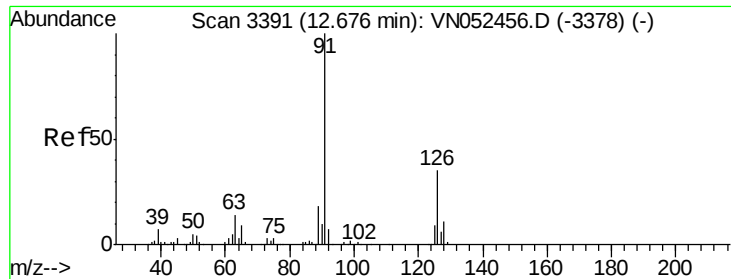
Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Tgt Ion:	91	Resp:	1057284
Ion Ratio	Lower	Upper	
91	100		
120	22.7	0.0	44.6





#75

2-Chlorotoluene

Concen: 20.888 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion: 91 Resp: 634698

Ion Ratio Lower Upper

91 100

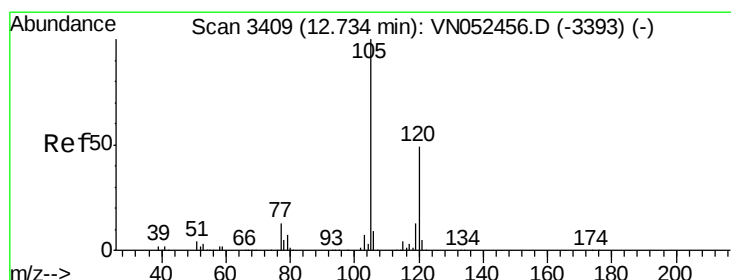
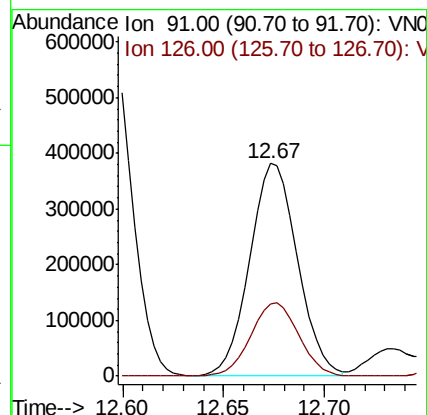
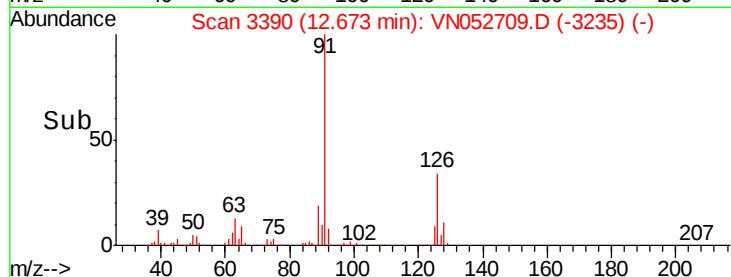
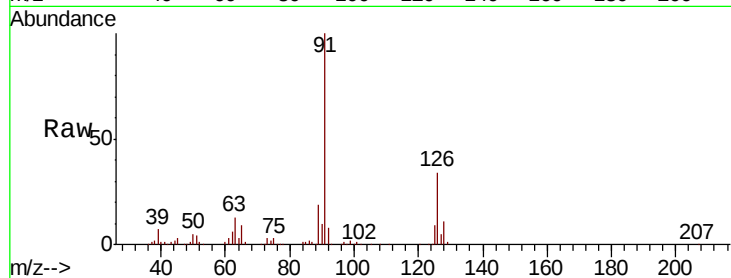
126 34.6 0.0 68.4

Manual Integrations

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12/7/2018 1:13:00 PM



#76

1,3,5-Trimethylbenzene

Concen: 21.027 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052709.D

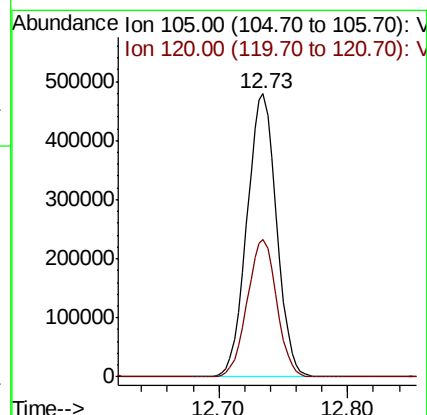
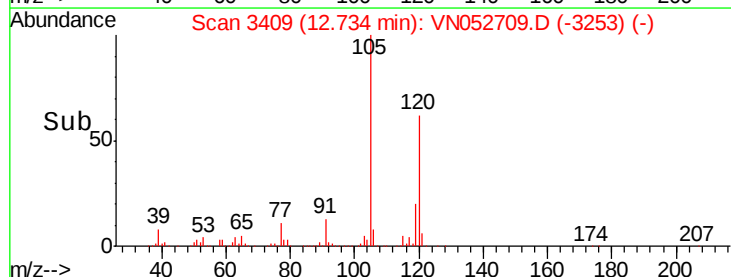
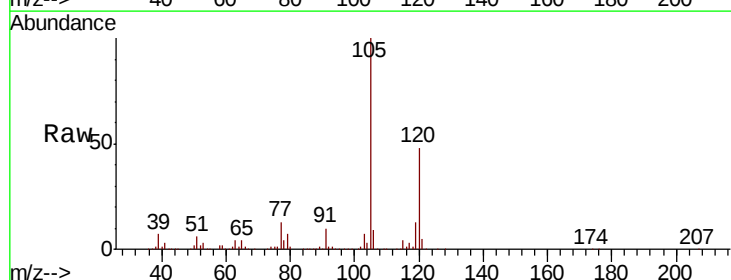
Acq: 6 Dec 2018 20:25

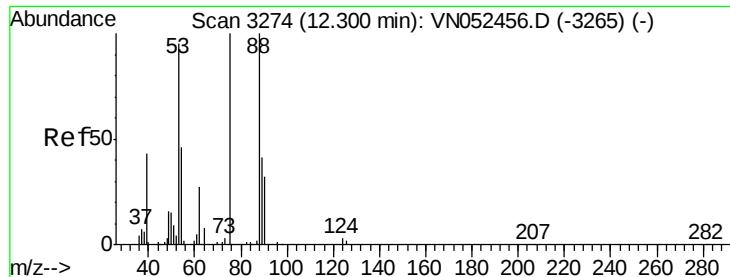
Tgt Ion: 105 Resp: 763082

Ion Ratio Lower Upper

105 100

120 48.4 0.0 97.4





#77

t-1,4-Dichloro-2-butene

Concen: 20.055 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

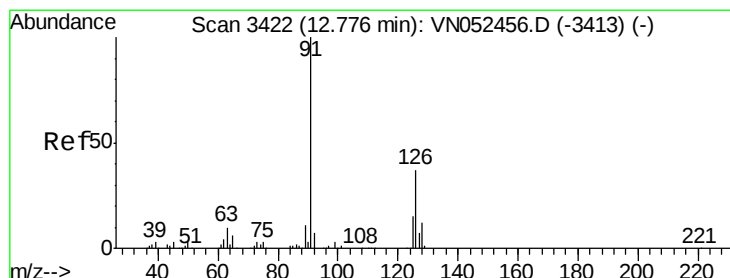
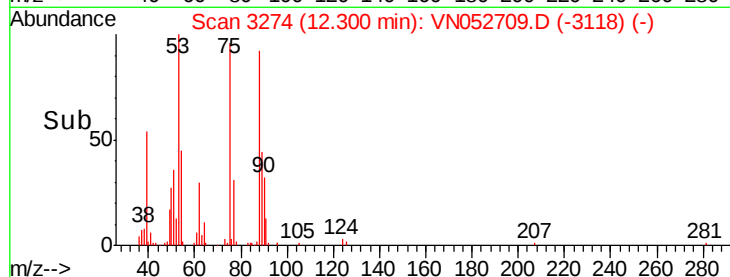
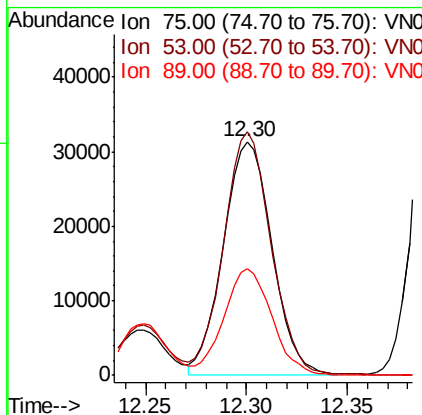
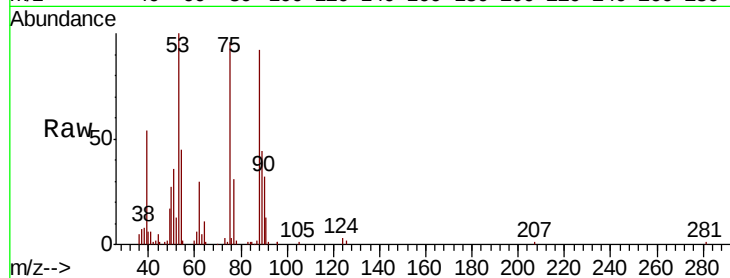
ClientSampled :

VSTDCCC020

Tot Ion:	75	Resp:	53152
Ion	Ratio	Lower	Upper
75	100		
53	104.3	48.5	145.6
89	46.2	21.7	65.1

Manual Integrations
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12/7/2018 1:13:00 PM



#78

4-Chlorotoluene

Concen: 20.605 ug/l

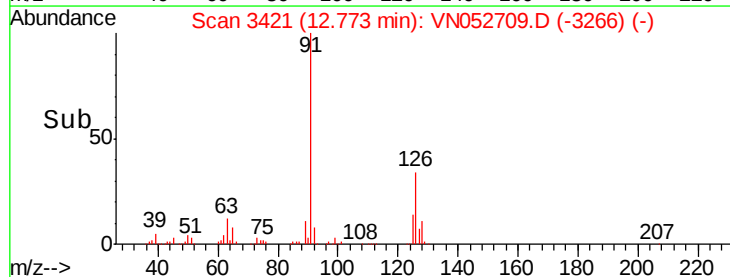
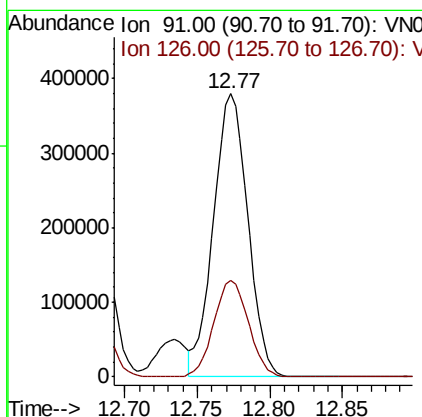
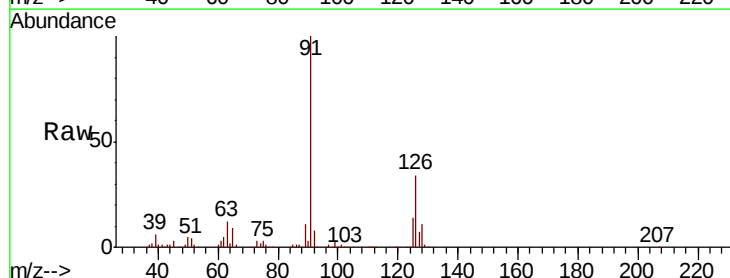
RT: 12.77 min Scan# 3421

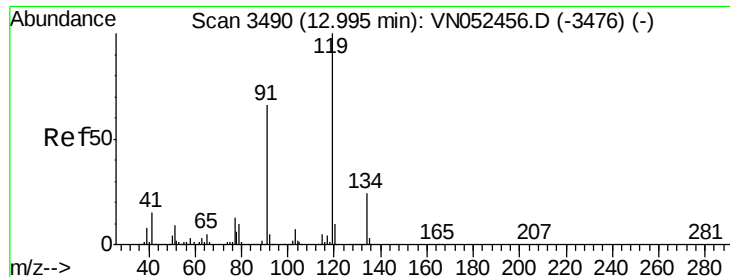
Delta R.T. -0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Tgt Ion:	91	Resp:	625247
Ion	Ratio	Lower	Upper
91	100		
126	34.3	0.0	68.2





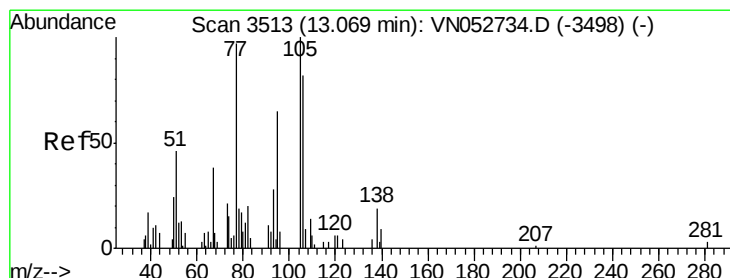
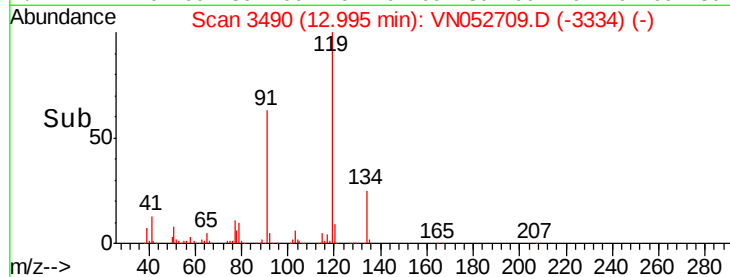
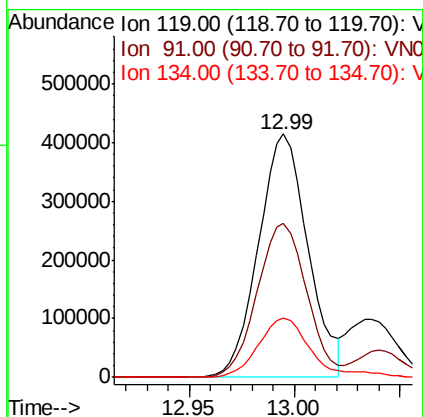
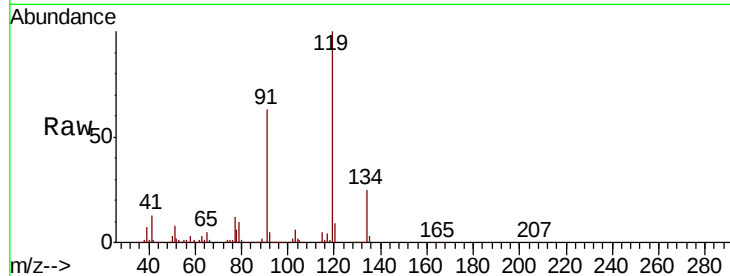
#79
tert-butylbenzene
Concen: 21.451 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	677950		
91	63.7	0.0	129.8	
134	26.1	0.0	52.2	

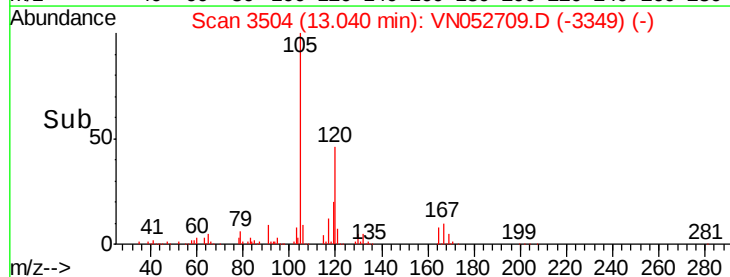
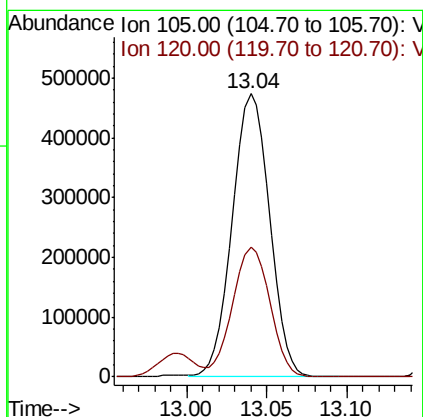
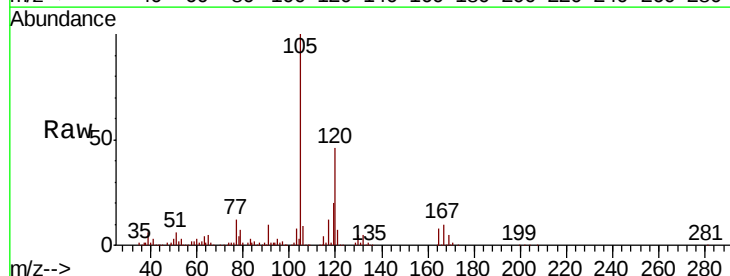
Manual Integrations
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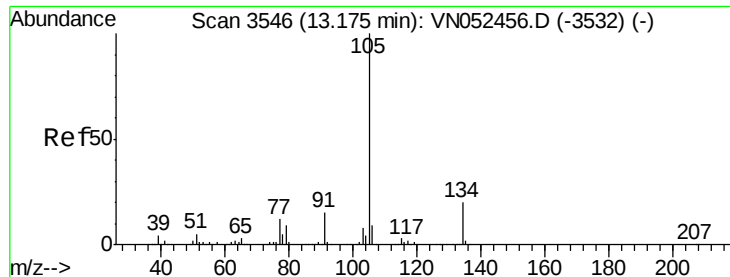
MMDadoda
12/7/2018 1:13:00 PM



#80
1,2,4-Trimethylbenzene
Concen: 20.815 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	755858		
120	46.1	0.0	91.0	





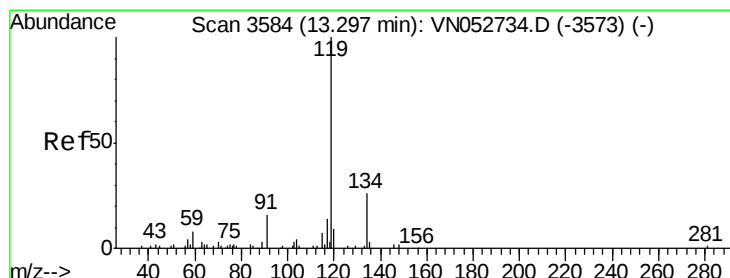
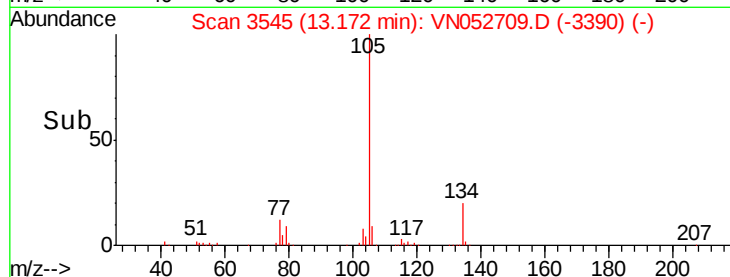
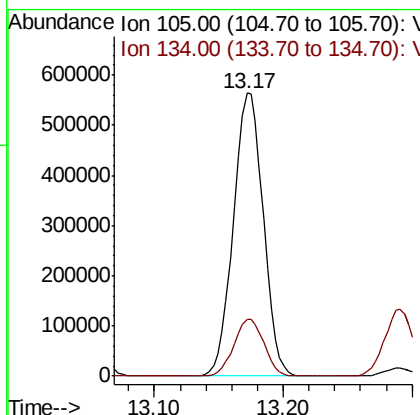
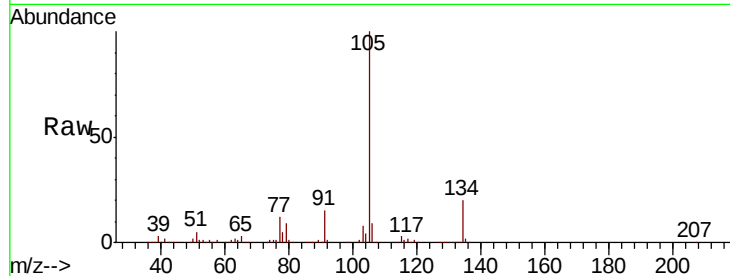
#81
 sec-Butylbenzene
 Concen: 20.614 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.2	0.0	40.4

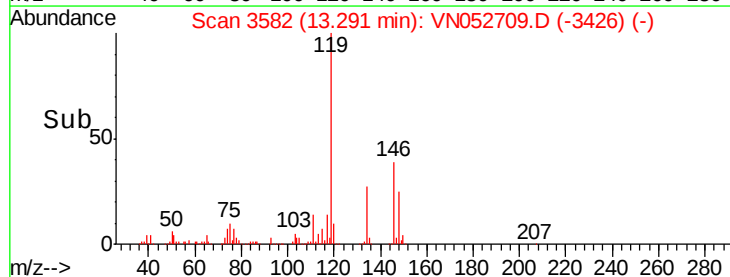
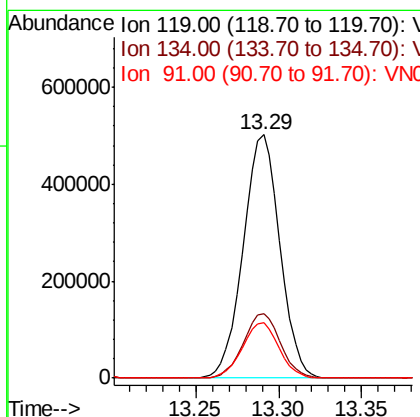
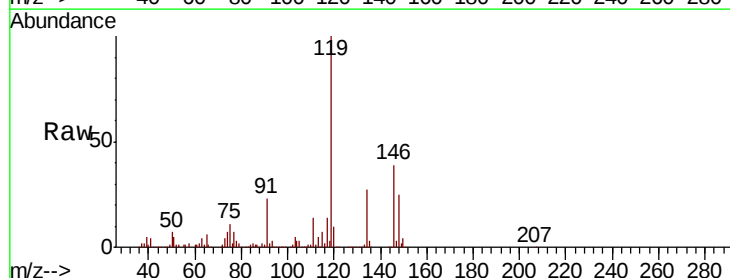
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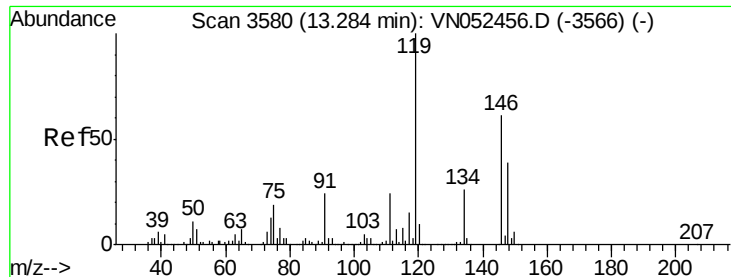
MMDadoda
 12/7/2018 1:13:00 PM



#82
 p-Isopropyltoluene
 Concen: 20.543 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	0.0	52.6
91	22.8	0.0	46.2





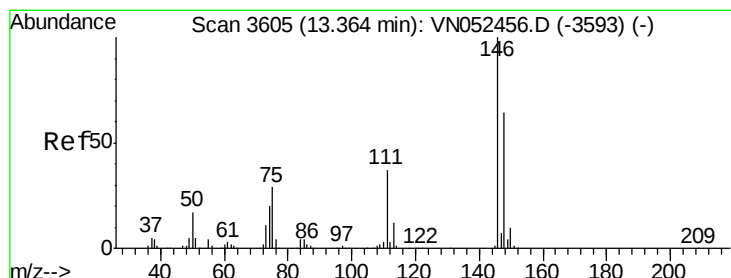
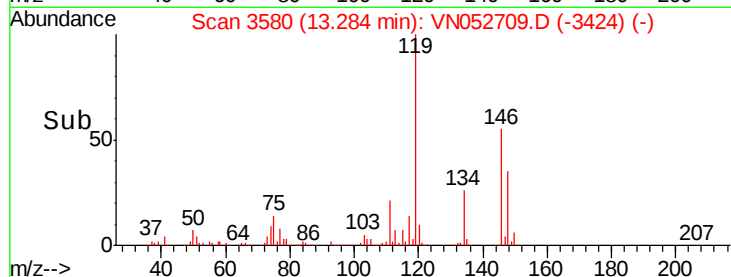
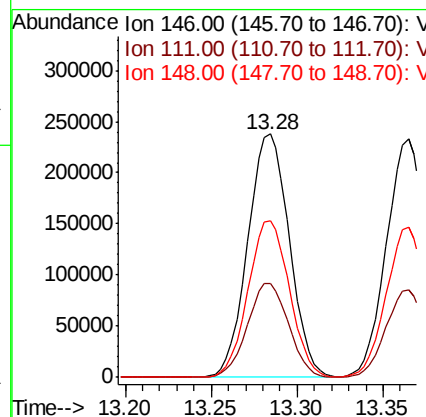
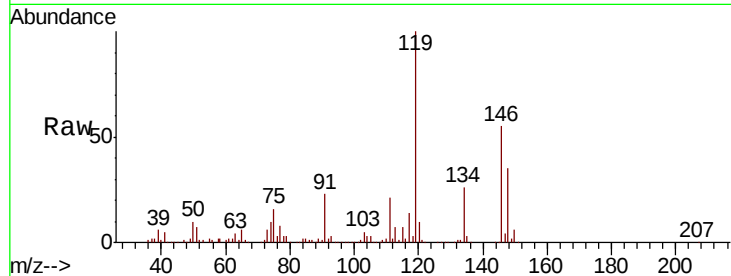
#83
1,3-Dichlorobenzene
Concen: 20.842 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.7	59.0
148	63.9	32.3	96.8

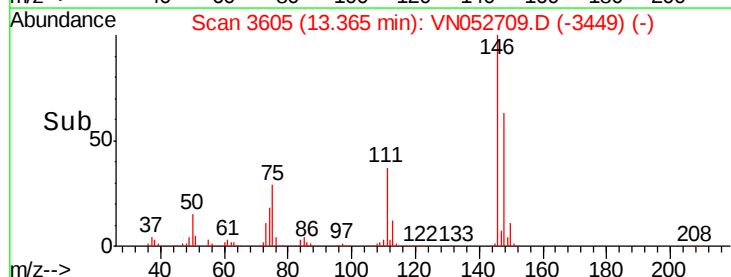
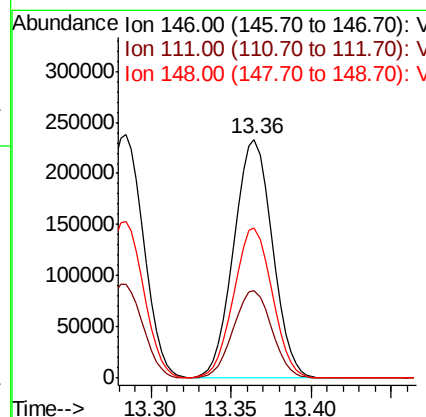
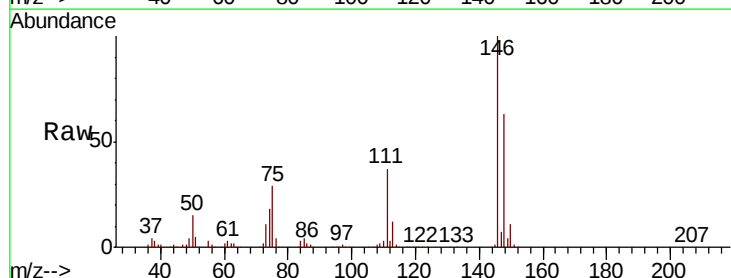
Manual Integrations
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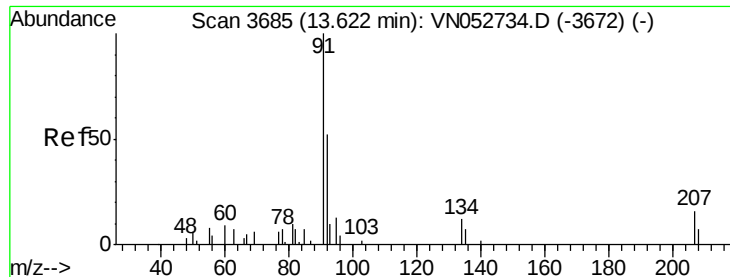
MMDadoda
12/7/2018 1:13:00 PM



#84
1,4-Dichlorobenzene
Concen: 20.821 ug/l
RT: 13.36 min Scan# 3605
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	18.8	56.3
148	62.8	32.5	97.4





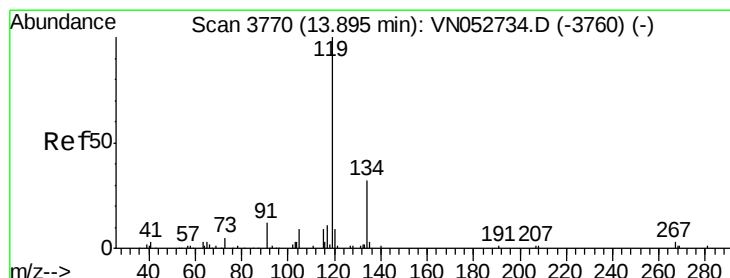
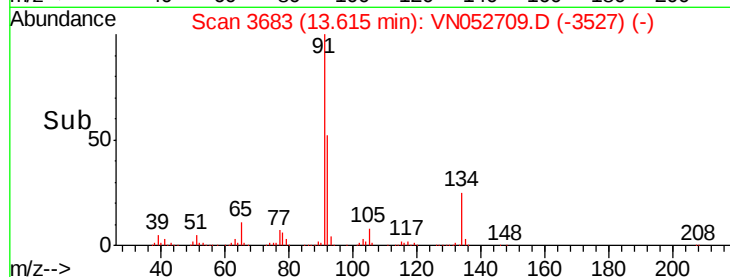
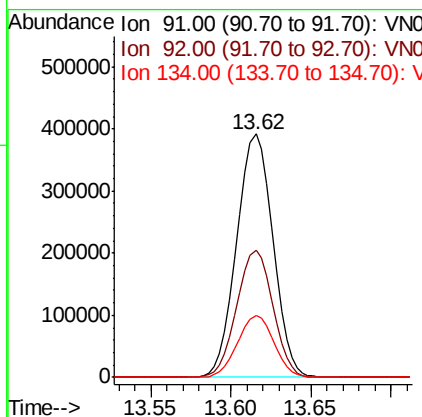
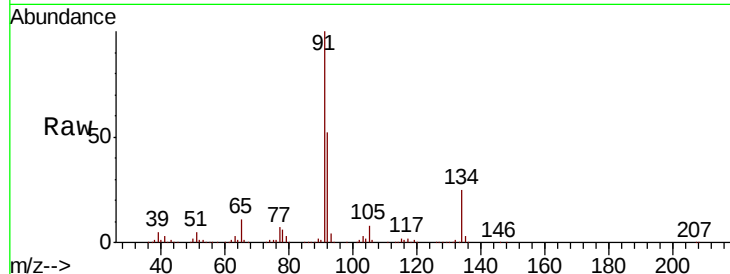
#85
n-Butylbenzene
Concen: 18.786 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
91	100	604889		
92	52.0		0.0	104.2
134	25.7		0.0	50.6

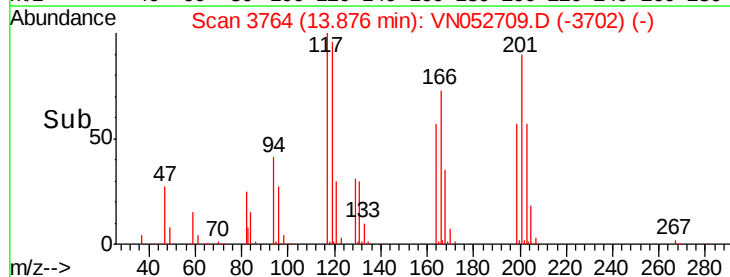
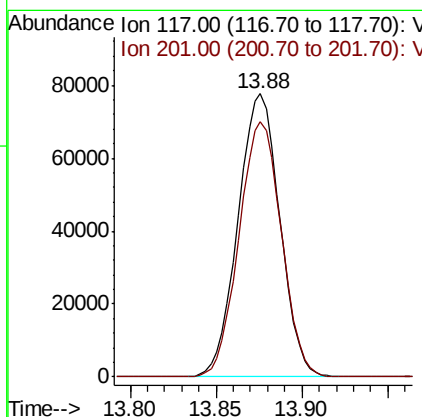
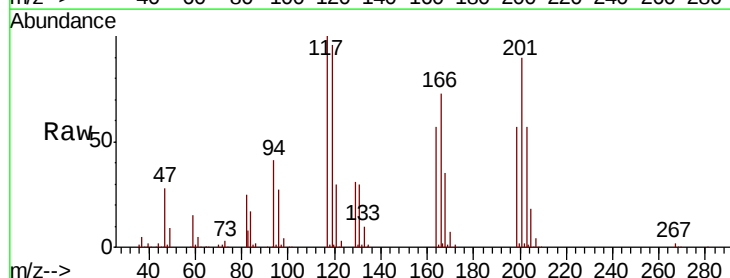
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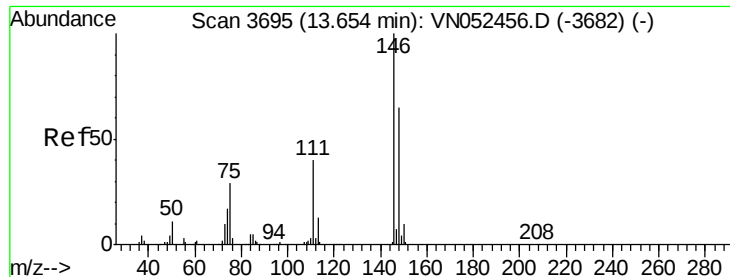
MMDadoda
12/7/2018 1:13:00 PM



#86
Hexachloroethane
Concen: 20.651 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	131160		
201	91.0		43.8	131.3





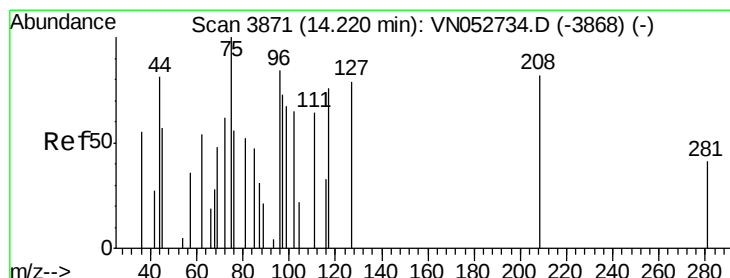
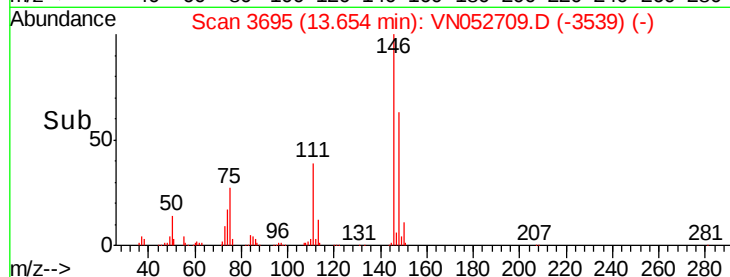
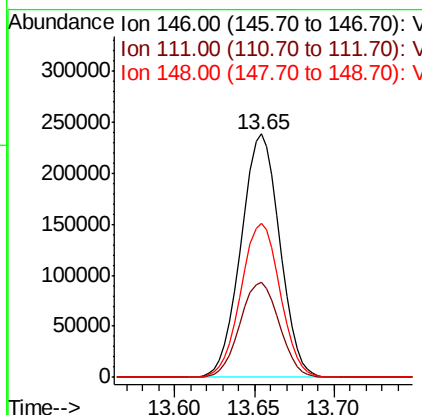
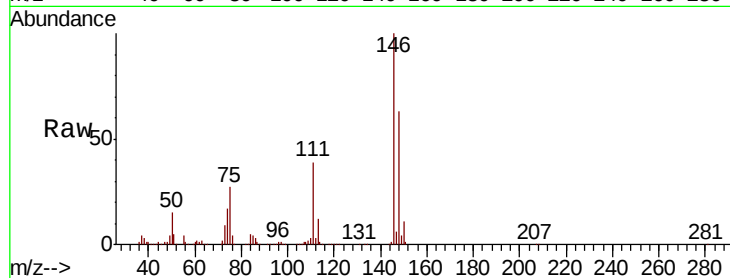
#87
 1,2-Dichlorobenzene
 Concen: 21.697 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.3	60.8
148	64.0	32.1	96.5

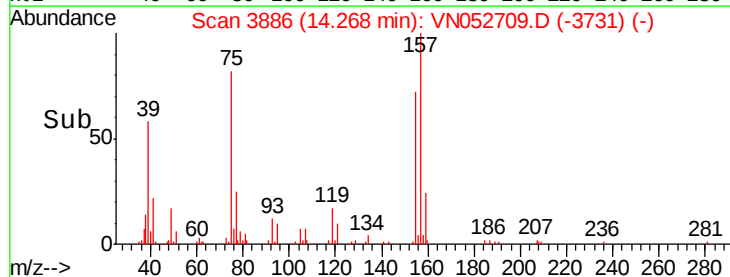
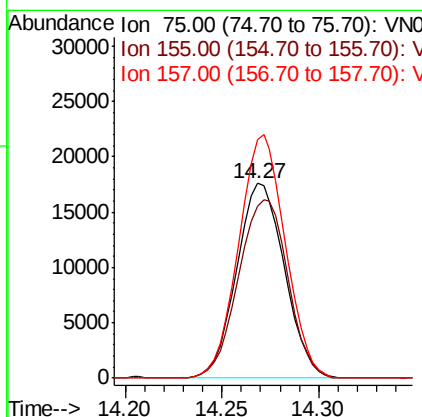
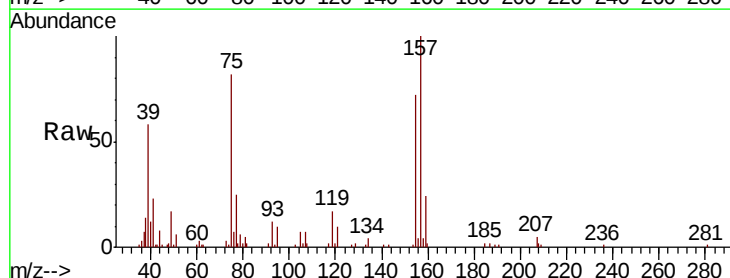
Manual Integrations
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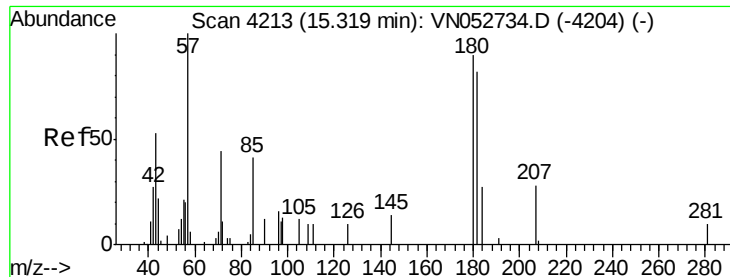
MMDadoda
 12/7/2018 1:13:00 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 22.170 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN052709.D
 Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.2	72.2	108.2
157	121.2	94.2	141.2





#89

1,2,4-Trichlorobenzene

Concen: 19.759 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Instrument :

MSVOA_N

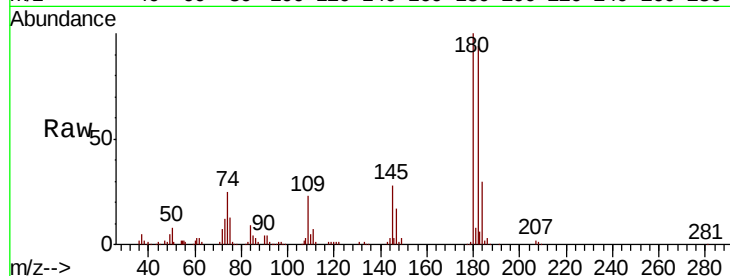
ClientSampled :

VSTDCCC020

Tot Ion:	180	Resp:	177048
Ion Ratio	Lower	Upper	
180	100		
182	94.3	76.6	114.8
145	28.0	23.6	35.4

Manual Integrations
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12/7/2018 1:13:00 PM

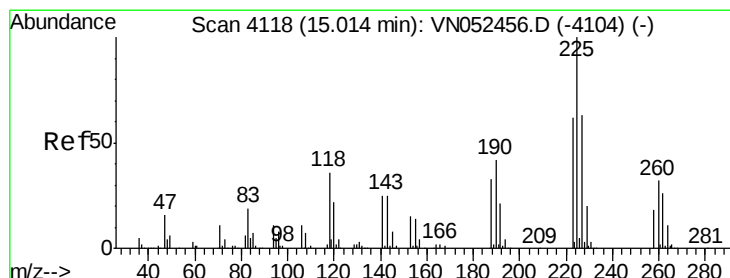
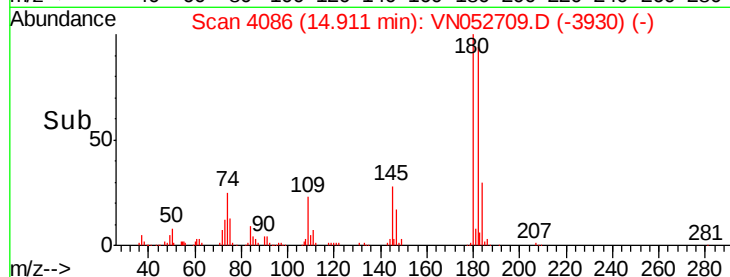
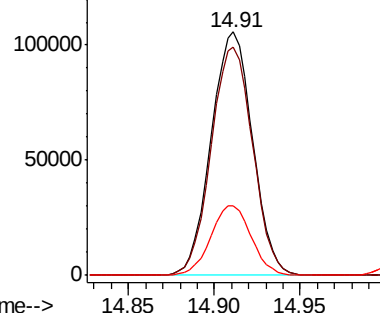


Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#90

Hexachlorobutadiene

Concen: 21.508 ug/l

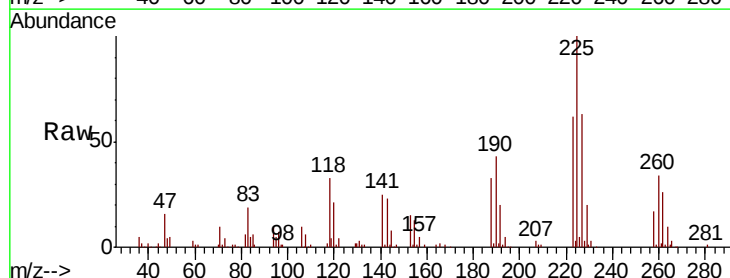
RT: 15.01 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN052709.D

Acq: 6 Dec 2018 20:25

Tgt Ion:	225	Resp:	126421
Ion Ratio	Lower	Upper	
225	100		
223	63.1	0.0	125.6
227	63.6	0.0	127.8

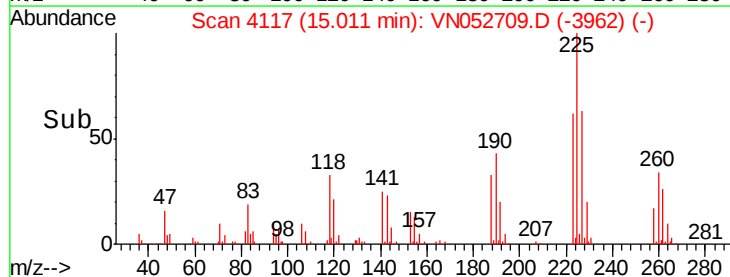
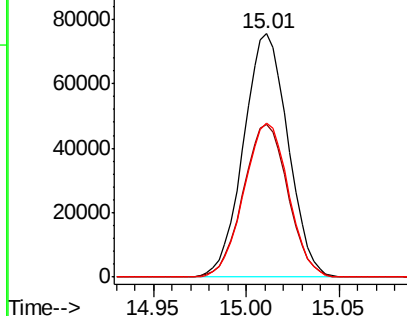


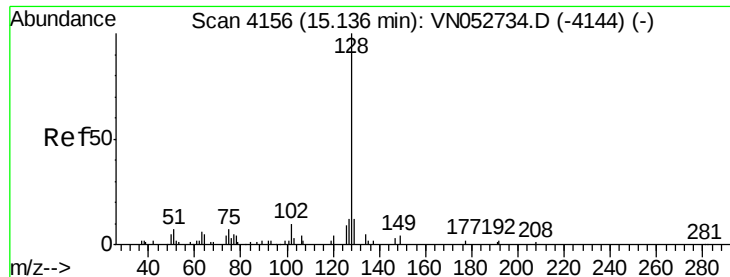
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





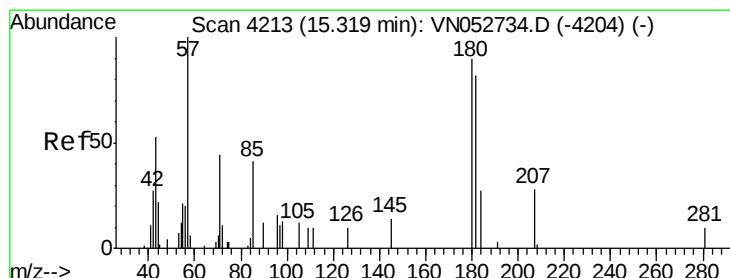
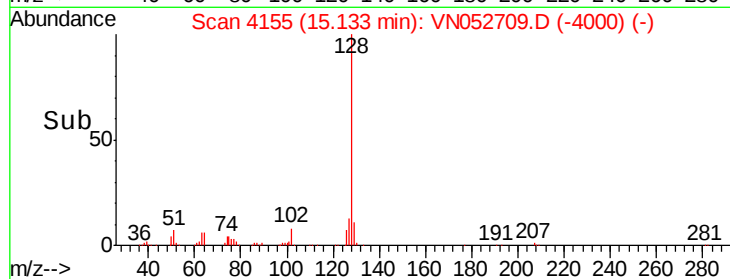
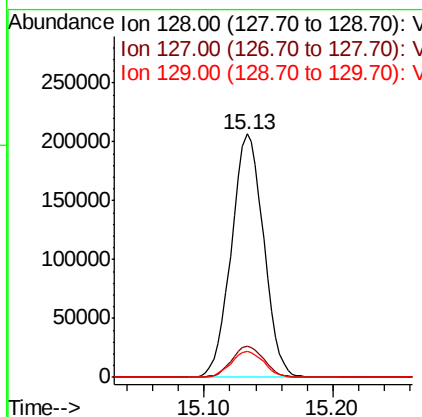
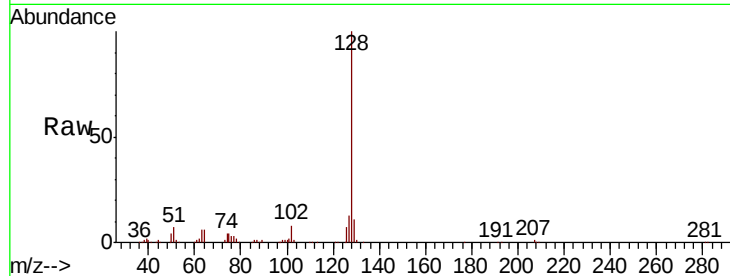
#91
Naphthalene
Concen: 19.874 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	9.9	14.9
129	10.9	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
12/7/2018 1:13:00 PM



#92
1,2,3-Trichlorobenzene
Concen: 20.703 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052709.D
Acq: 6 Dec 2018 20:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	0.0	196.2
145	30.9	0.0	62.2

