

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058705.D
 Acq On : 11 Oct 2019 15:58
 Operator : JC/SP
 Sample : K5111-08 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:48:35 AM

Quant Time: Oct 12 00:36:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	421115	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	694830	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	619168	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	273308	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	310877	52.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.46%	
35) Dibromofluoromethane	7.57	113	217368	50.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.30%	
50) Toluene-d8	10.09	98	834503	48.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.24%	
62) 4-Bromofluorobenzene	12.40	95	294080	45.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	13325	2.541	ug/l	97
3) Chloromethane	2.04	50	17037	2.732	ug/l	99
4) Vinyl Chloride	2.17	62	15762	2.538	ug/l	99
5) Bromomethane	2.55	94	11735	3.106	ug/l	93
6) Chloroethane	2.68	64	10270	2.680	ug/l	98
7) Trichlorofluoromethane	3.00	101	20731	2.789	ug/l	99
8) Diethyl Ether	3.39	74	7409	2.697	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	10881	2.567	ug/l #	86
10) Methyl Iodide	3.93	142	13505	2.335	ug/l	97
11) Tert butyl alcohol	4.76	59	13270	13.898	ug/l	100
12) 1,1-Dichloroethene	3.71	96	11878	2.937	ug/l #	72
13) Acrolein	3.58	56	9583	12.480	ug/l	98
14) Allyl chloride	4.29	41	21319	2.612	ug/l	98
15) Acrylonitrile	4.96	53	30559	12.691	ug/l	97
16) Acetone	3.80	43	29748	12.188	ug/l	97
17) Carbon Disulfide	4.03	76	34737	2.687	ug/l	100
18) Methyl Acetate	4.30	43	17164	2.772	ug/l #	82
19) Methyl tert-butyl Ether	5.03	73	37920	2.626	ug/l	95
20) Methylene Chloride	4.52	84	14106	2.765	ug/l	89
21) trans-1,2-Dichloroethene	5.02	96	12448	2.752	ug/l	90
22) Diisopropyl ether	5.93	45	39714	2.503	ug/l #	84
23) Vinyl Acetate	5.87	43	163723	12.786	ug/l	100
24) 1,1-Dichloroethane	5.83	63	23431	2.593	ug/l	98
25) 2-Butanone	6.82	43	43040	12.200	ug/l	98
26) 2,2-Dichloropropane	6.80	77	21978	2.664	ug/l	98
27) cis-1,2-Dichloroethene	6.82	96	14012	2.656	ug/l	97
28) Bromochloromethane	7.18	49	7949m	2.528	ug/l	
29) Tetrahydrofuran	7.19	42	28070	12.313	ug/l	97
30) Chloroform	7.35	83	24092	2.653	ug/l	94
31) Cyclohexane	7.64	56	30774	3.559	ug/l #	67
32) 1,1,1-Trichloroethane	7.55	97	20361	2.629	ug/l	99
36) 1,1-Dichloropropene	7.78	75	18112	2.578	ug/l	99
37) Ethyl Acetate	6.91	43	14291	2.011	ug/l #	90
38) Carbon Tetrachloride	7.76	117	18195	2.657	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058705.D
 Acq On : 11 Oct 2019 15:58
 Operator : JC/SP
 Sample : K5111-08 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:48:35 AM

Quant Time: Oct 12 00:36:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	20033	2.457	ug/l	95
40) Benzene	8.03	78	51739	2.564	ug/l	96
41) Methacrylonitrile	7.15	41	6653m	2.000	ug/l	
42) 1,2-Dichloroethane	8.11	62	21017	2.711	ug/l	90
43) Isopropyl Acetate	8.15	43	28658	2.368	ug/l	95
44) Trichloroethene	8.82	130	12893	2.573	ug/l	94
45) 1,2-Dichloropropane	9.11	63	14955	2.769	ug/l	100
46) Dibromomethane	9.20	93	8799	2.569	ug/l	99
47) Bromodichloromethane	9.39	83	16912	2.425	ug/l	97
48) Methyl methacrylate	9.19	41	13692	2.496	ug/l	96
49) 1,4-Dioxane	9.19	88	4196	49.436	ug/l #	94
51) 4-Methyl-2-Pentanone	9.98	43	84647	12.453	ug/l	97
52) Toluene	10.15	92	30600	2.480	ug/l	95
53) t-1,3-Dichloropropene	10.38	75	18978	2.373	ug/l #	71
54) cis-1,3-Dichloropropene	9.83	75	20676	2.435	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	13585	2.690	ug/l	96
56) Ethyl methacrylate	10.43	69	17292	2.343	ug/l	96
57) 1,3-Dichloropropane	10.71	76	21784	2.531	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	37680	10.596	ug/l	99
59) 2-Hexanone	10.75	43	60916	11.596	ug/l	100
60) Dibromochloromethane	10.90	129	12346	2.370	ug/l	97
61) 1,2-Dibromoethane	11.00	107	11989	2.369	ug/l	96
64) Tetrachloroethene	10.63	164	11004	2.540	ug/l	93
65) Chlorobenzene	11.43	112	33035	2.627	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.51	131	11390	2.450	ug/l	91
67) Ethyl Benzene	11.51	91	56554	2.523	ug/l	100
68) m/p-Xylenes	11.62	106	41420	4.924	ug/l	98
69) o-Xylene	11.95	106	20372	2.503	ug/l	96
70) Styrene	11.97	104	30133	2.259	ug/l	96
71) Bromoform	12.13	173	8038	2.359	ug/l #	97
73) Isopropylbenzene	12.25	105	52070	2.631	ug/l	100
74) N-amyl acetate	12.07	43	21284	2.394	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	18260	2.800	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	17150m	2.860	ug/l	
77) Bromobenzene	12.53	156	12975	2.695	ug/l	94
78) n-propylbenzene	12.59	91	61194	2.653	ug/l	100
79) 2-Chlorotoluene	12.68	91	38988	2.723	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	44534	2.635	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	5181	2.315	ug/l #	82
82) 4-Chlorotoluene	12.78	91	37533	2.555	ug/l	97
83) tert-Butylbenzene	13.00	119	37026	2.558	ug/l	94
84) 1,2,4-Trimethylbenzene	13.05	105	44006	2.623	ug/l	97
85) sec-Butylbenzene	13.17	105	50642	2.655	ug/l	100
86) p-Isopropyltoluene	13.30	119	43198	2.492	ug/l	98
87) 1,3-Dichlorobenzene	13.29	146	22271	2.508	ug/l	95
88) 1,4-Dichlorobenzene	13.37	146	22825	2.528	ug/l	82
89) n-Butylbenzene	13.62	91	38507	2.402	ug/l	96
90) Hexachloroethane	13.88	117	7630	2.460	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	22779	2.632	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	4238	2.782	ug/l	86

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
Data File : VN058705.D
Acq On : 11 Oct 2019 15:58
Operator : JC/SP
Sample : K5111-08 2.5PPB LOD
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

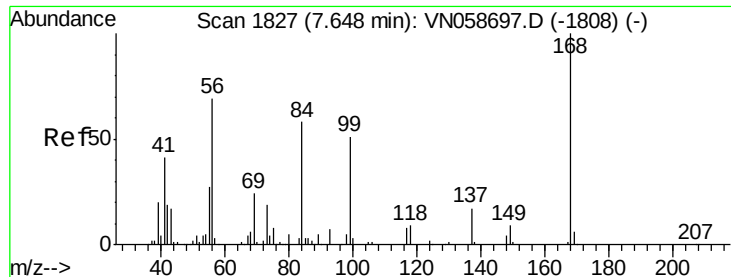
Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:35 AM

Quant Time: Oct 12 00:36:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	12535	2.375	ug/l	98
94) Hexachlorobutadiene	15.02	225	7516	2.704	ug/l	97
95) Naphthalene	15.13	128	32632	2.151	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	11824	2.294	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:168 Resp: 421115

Ion Ratio Lower Upper

168 100

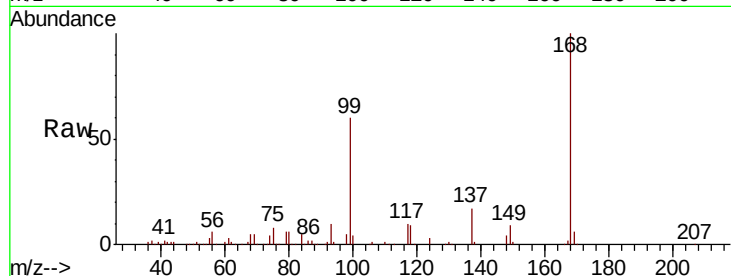
99 60.3 47.5 71.3

Manual Integrations

APPROVED

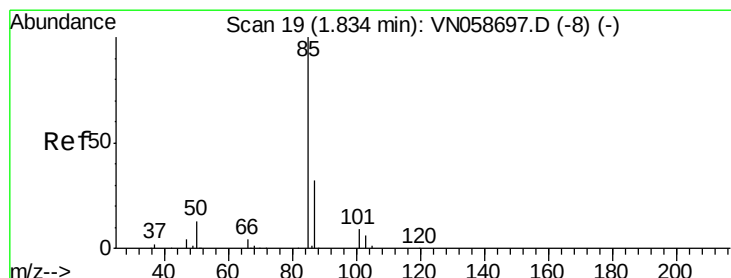
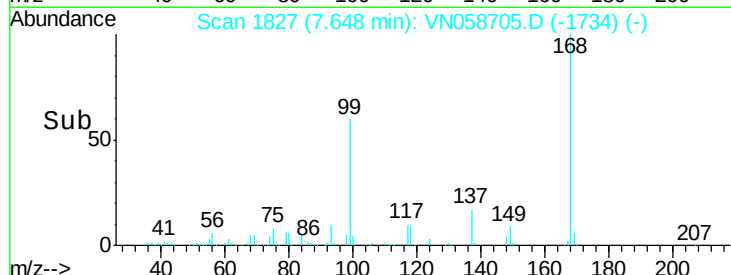
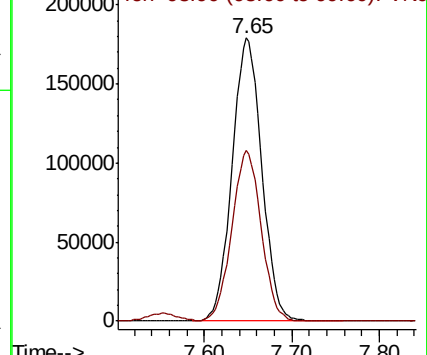
MMDadoda

10/16/2019 12:48:35 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 2.541 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058705.D

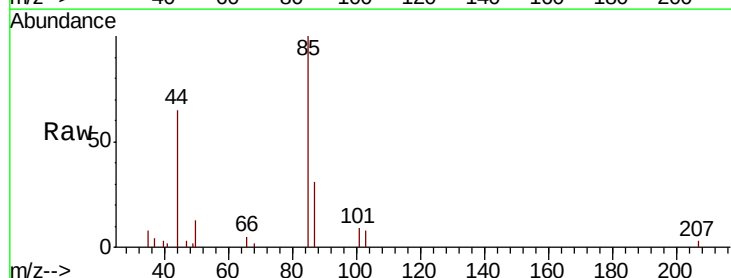
Acq: 11 Oct 2019 15:58

Tgt Ion: 85 Resp: 13325

Ion Ratio Lower Upper

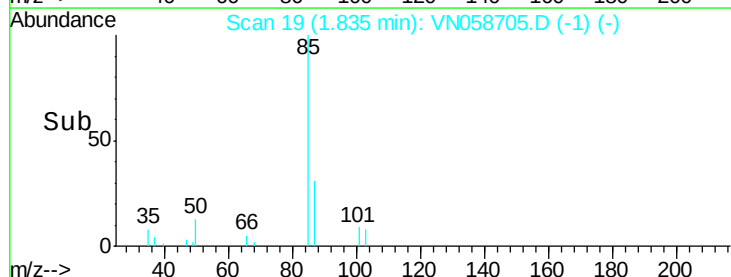
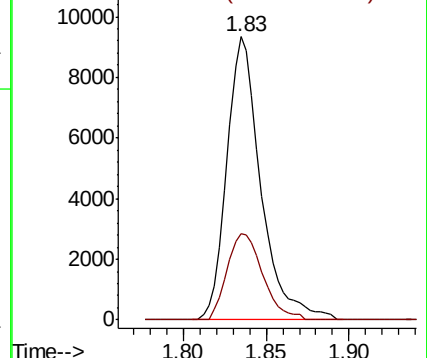
85 100

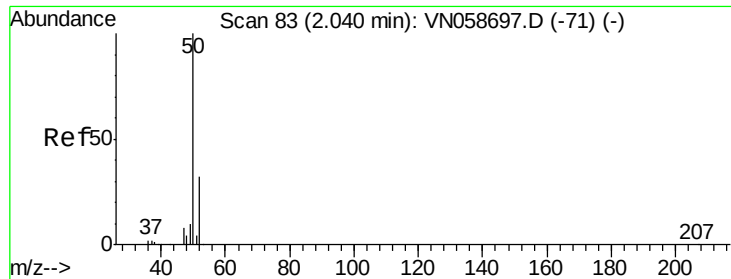
87 30.6 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 2.732 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 50 Resp: 17037

Ion Ratio Lower Upper

50 100

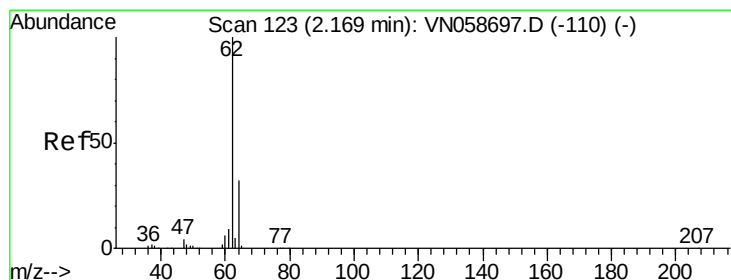
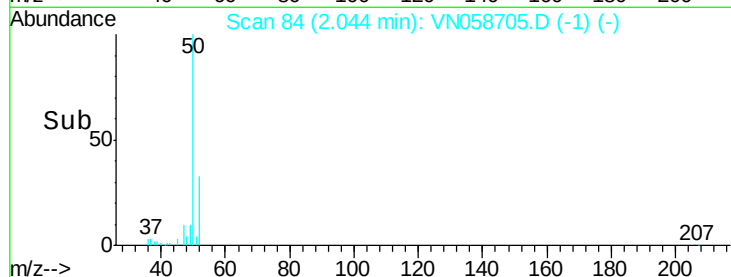
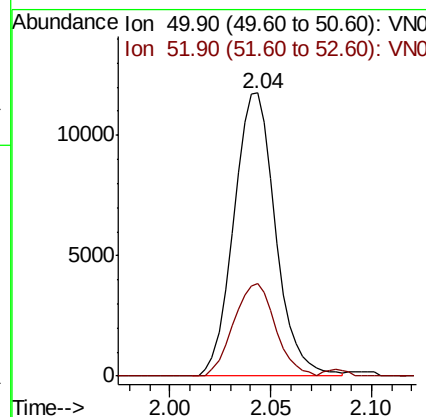
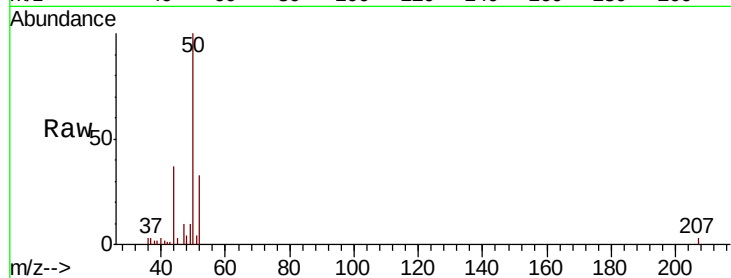
52 33.0 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

10/16/2019 12:48:35 AM



#4

Vinyl Chloride

Concen: 2.538 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058705.D

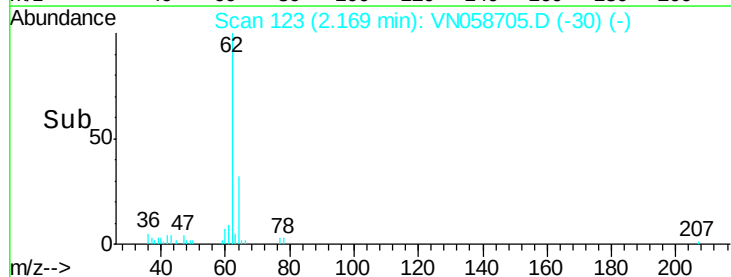
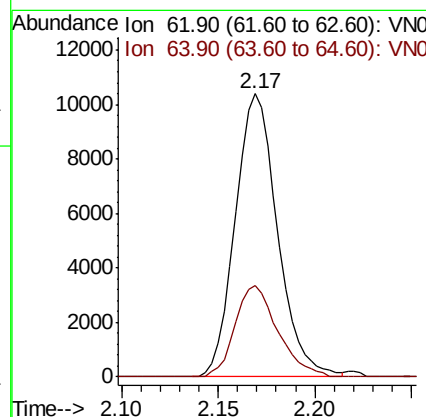
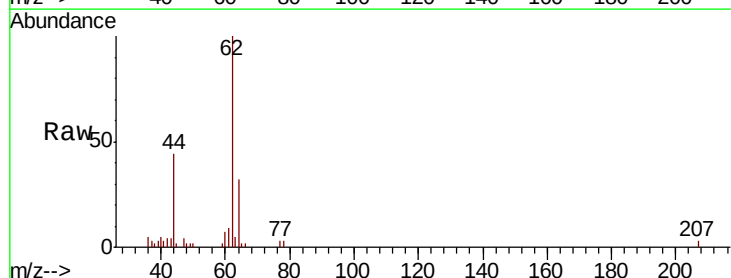
Acq: 11 Oct 2019 15:58

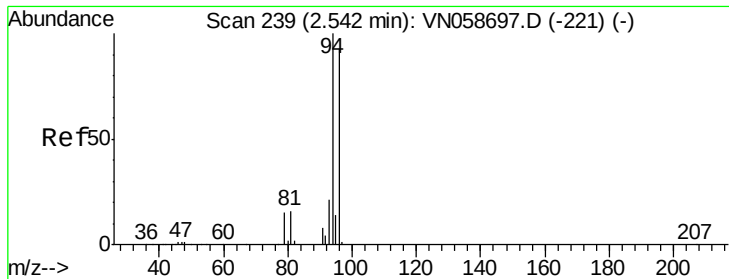
Tgt Ion: 62 Resp: 15762

Ion Ratio Lower Upper

62 100

64 32.1 25.3 37.9





#5

Bromomethane

Concen: 3.106 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 94 Resp: 11735

Ion Ratio Lower Upper

94 100

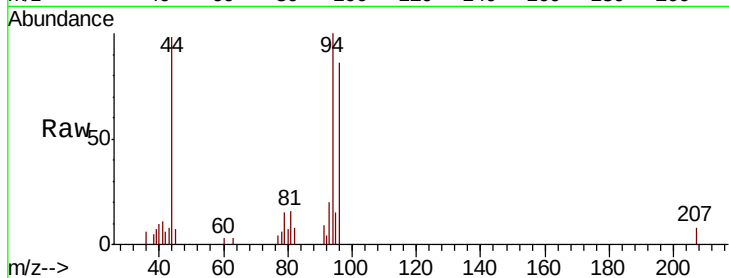
96 86.0 74.5 111.7

Manual Integrations

APPROVED

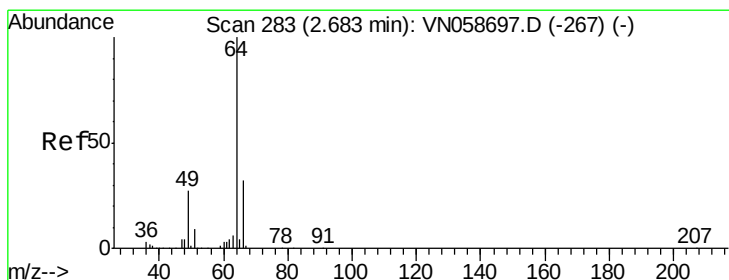
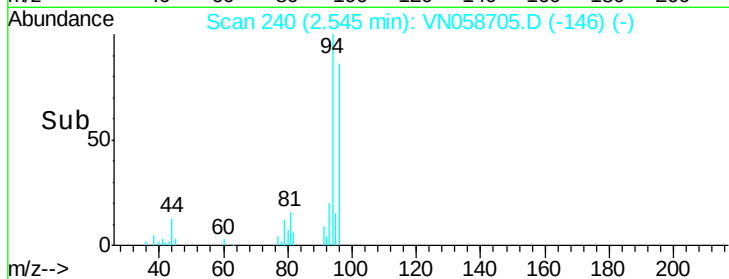
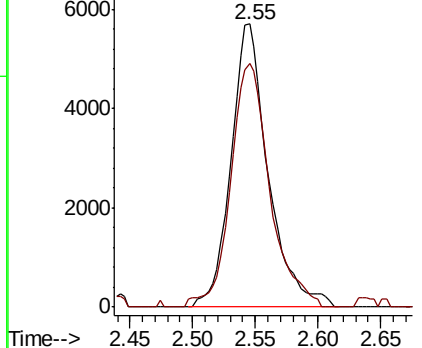
MMDadoda

10/16/2019 12:48:35 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 2.680 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN058705.D

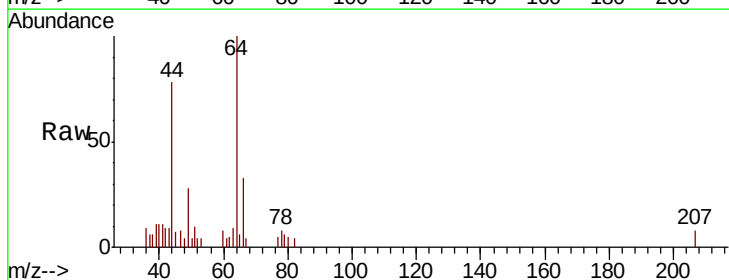
Acq: 11 Oct 2019 15:58

Tgt Ion: 64 Resp: 10270

Ion Ratio Lower Upper

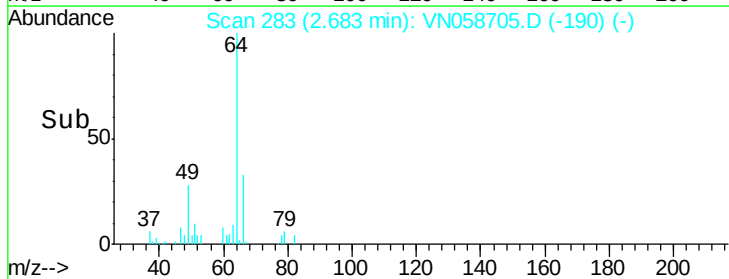
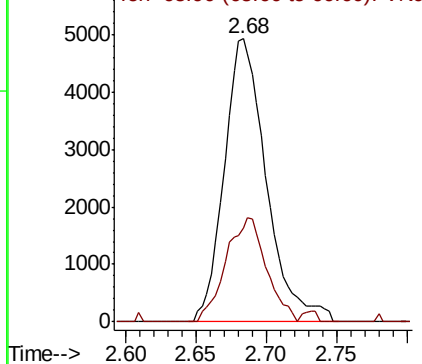
64 100

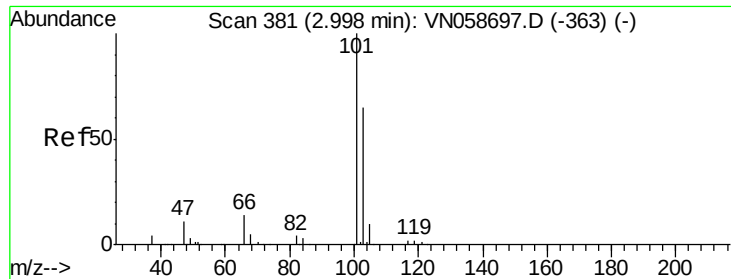
66 33.2 25.4 38.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

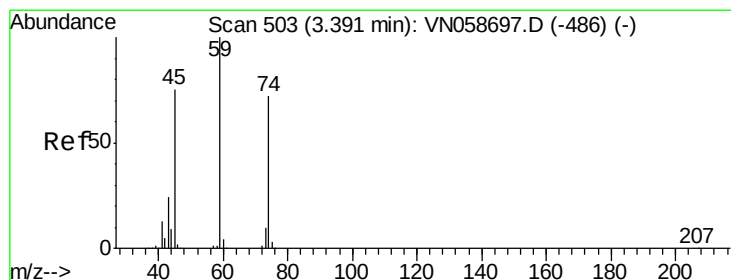
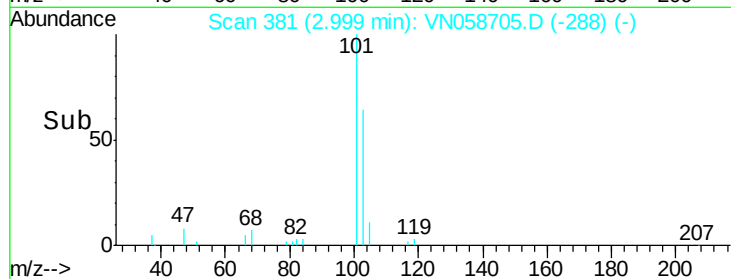
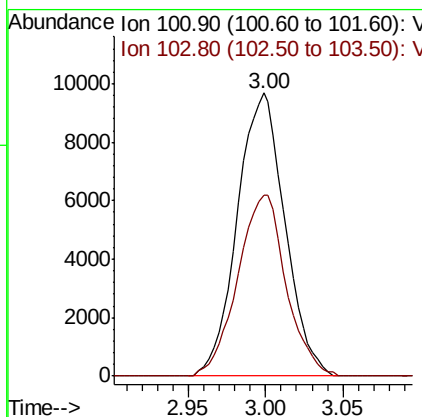
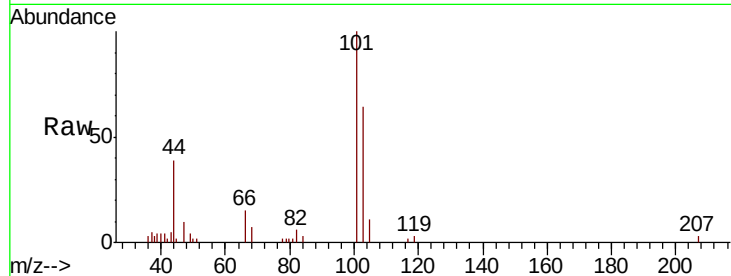
Trichlorofluoromethane
Concen: 2.789 ug/l
RT: 3.00 min Scan# 381
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.8	77.6

Manual Integrations
APPROVED

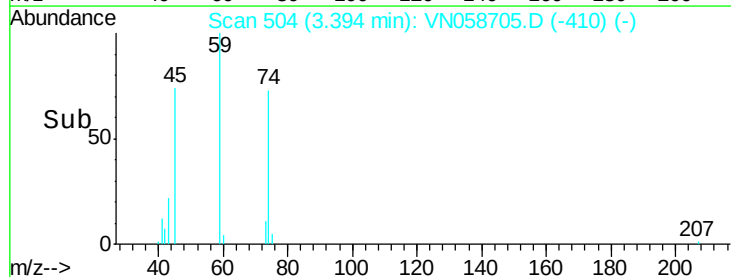
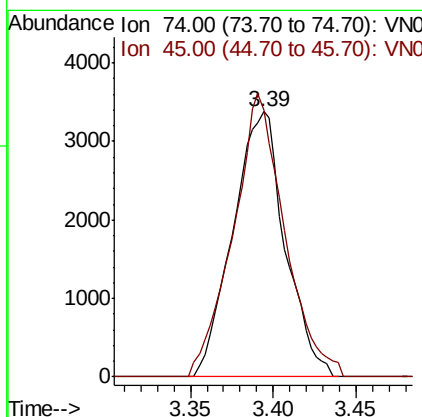
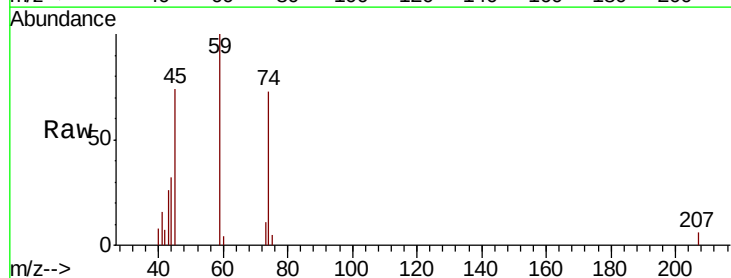
MMDadoda
10/16/2019 12:48:35 AM

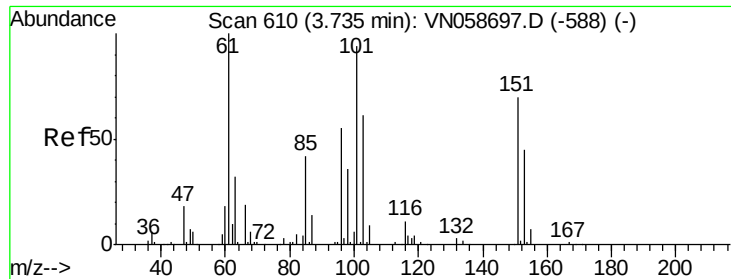


#8

Diethyl Ether
Concen: 2.697 ug/l
RT: 3.39 min Scan# 504
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
74	100		
45	105.4	51.3	154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.567 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

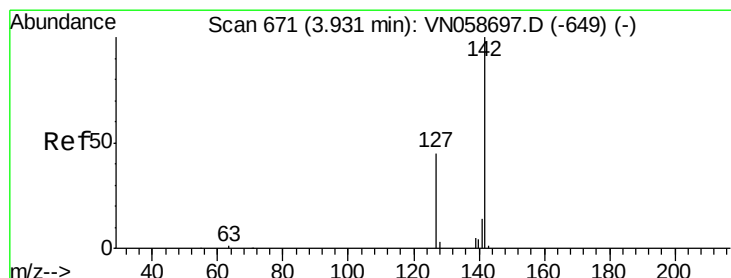
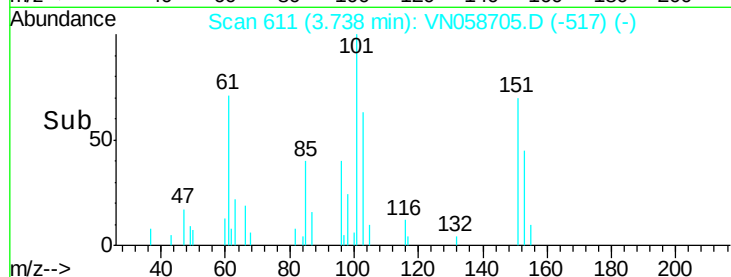
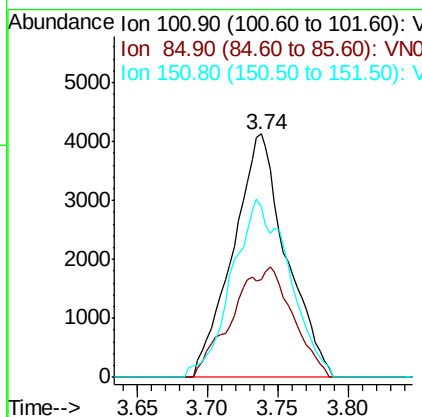
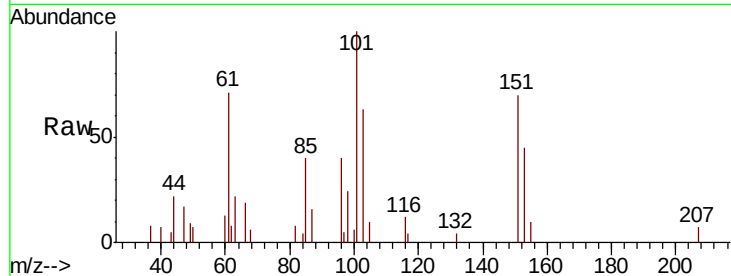
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	101	Resp:	10881
Ion Ratio	Lower	Upper	
101	100		
85	23.6	37.0	55.6#
151	78.9	61.8	92.6

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:35 AM



#10

Methyl Iodide

Concen: 2.335 ug/l

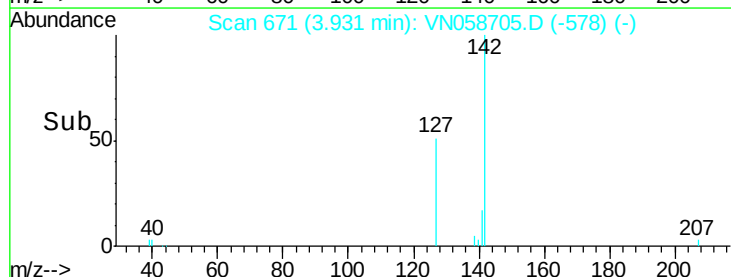
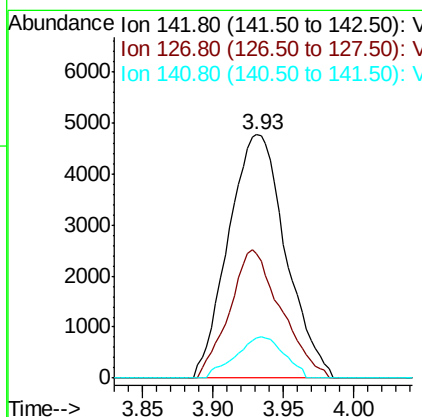
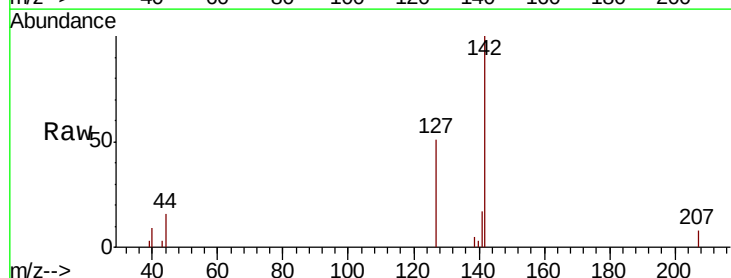
RT: 3.93 min Scan# 671

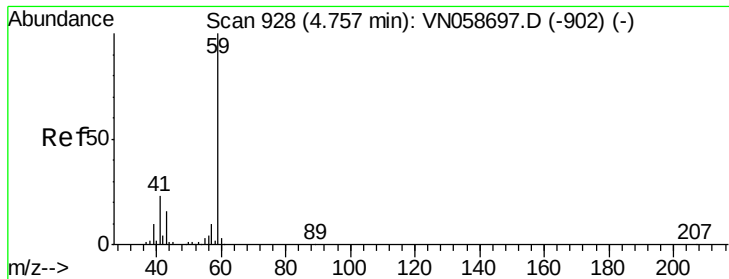
Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Tgt Ion:	142	Resp:	13505
Ion Ratio	Lower	Upper	
142	100		
127	47.5	36.4	54.6
141	14.4	11.1	16.7





#11

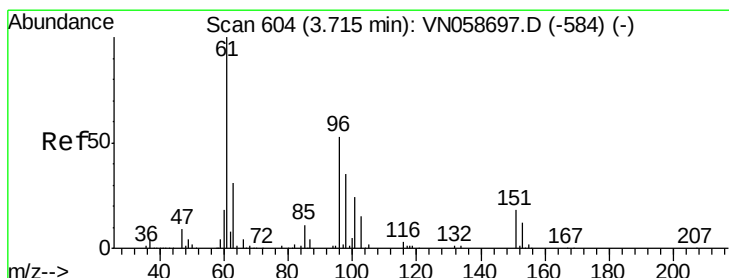
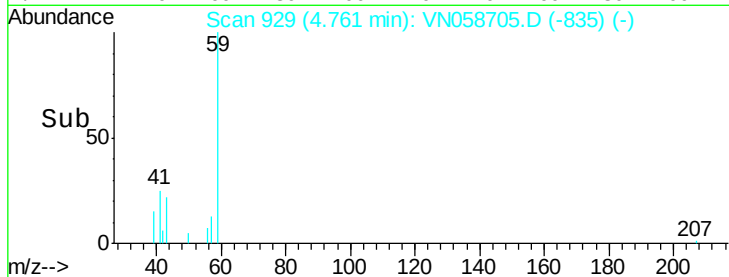
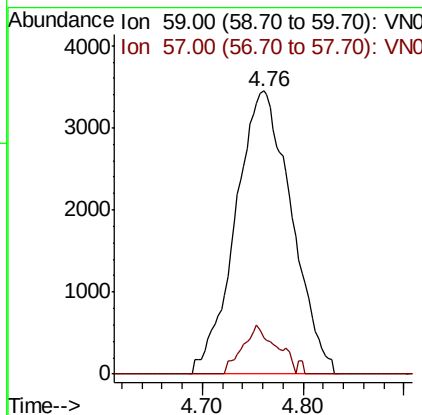
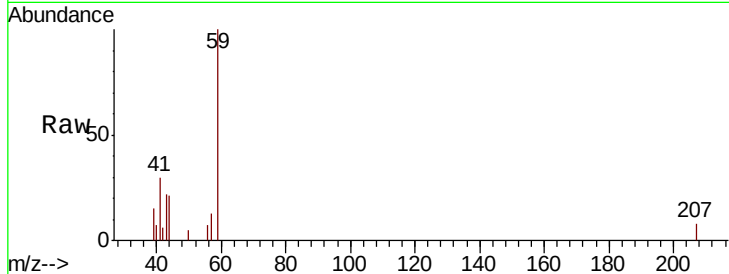
Tert butyl alcohol
Concen: 13.898 ug/l
RT: 4.76 min Scan# 929
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 59 Resp: 13270
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6

Manual Integrations
APPROVED

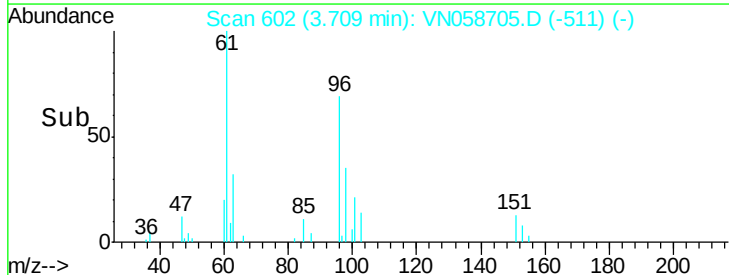
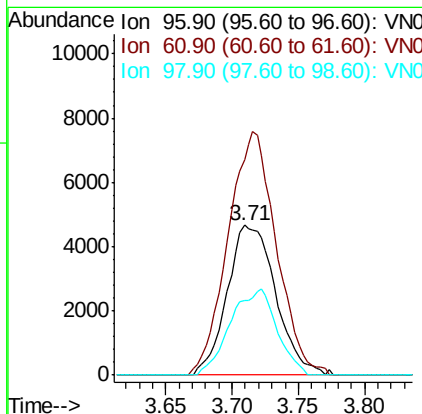
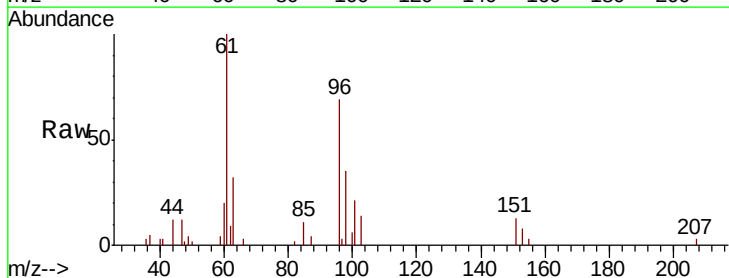
MMDadoda
10/16/2019 12:48:35 AM

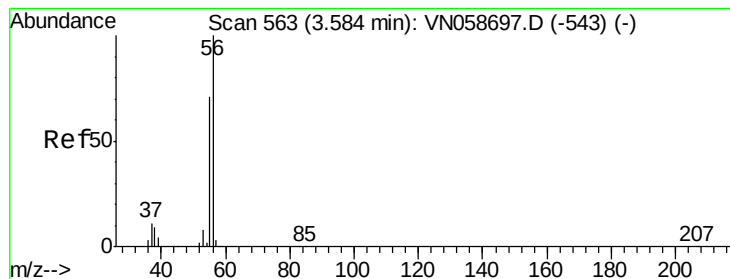


#12

1,1-Dichloroethene
Concen: 2.937 ug/l
RT: 3.71 min Scan# 602
Delta R.T. -0.01 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion: 96 Resp: 11878
Ion Ratio Lower Upper
96 100
61 144.3 151.3 226.9#
98 50.0 52.6 78.8#





#13

Acrolein

Concen: 12.480 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 56 Resp: 9583

Ion Ratio Lower Upper

56 100

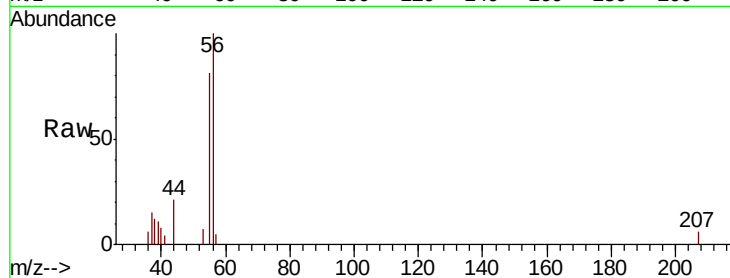
55 72.8 56.7 85.1

Manual Integrations

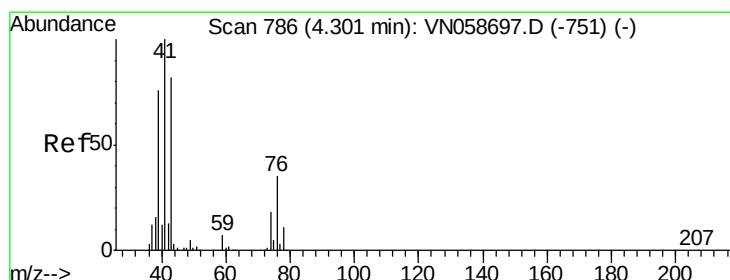
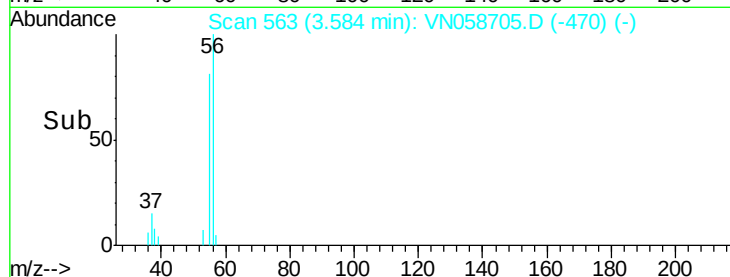
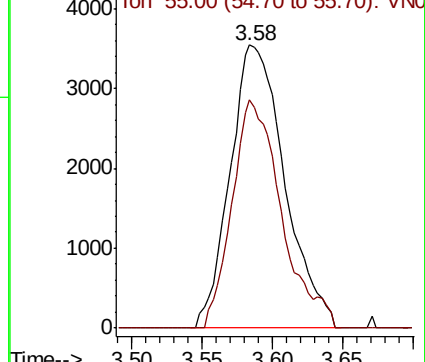
APPROVED

MMDadoda

10/16/2019 12:48:35 AM



Abundance Ion 56.00 (55.70 to 56.70): VN058705.D (-470) (-)



#14

Allyl chloride

Concen: 2.612 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.01 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

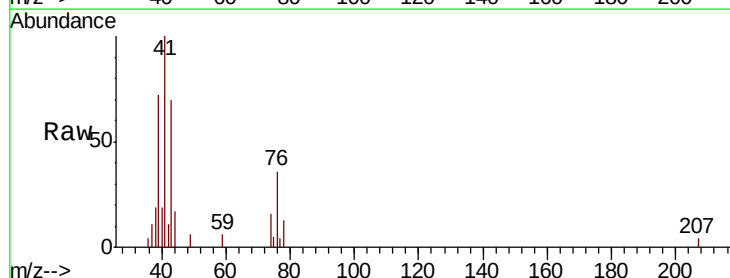
Tgt Ion: 41 Resp: 21319

Ion Ratio Lower Upper

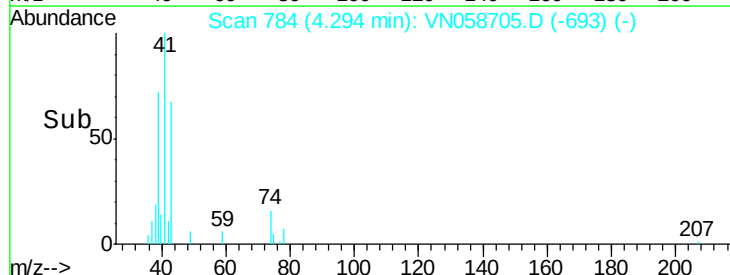
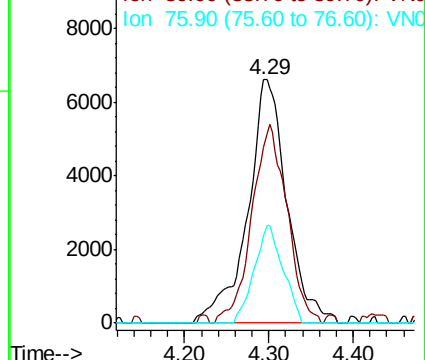
41 100

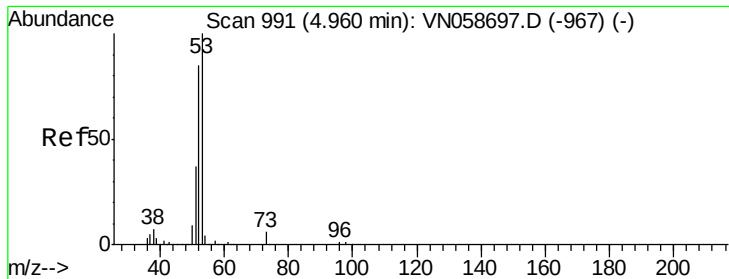
39 72.9 57.2 85.8

76 29.3 25.0 37.6



Abundance Ion 41.00 (40.70 to 41.70): VN058705.D (-693) (-)





#15

Acrylonitrile

Concen: 12.691 ug/l

RT: 4.96 min Scan# 992

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

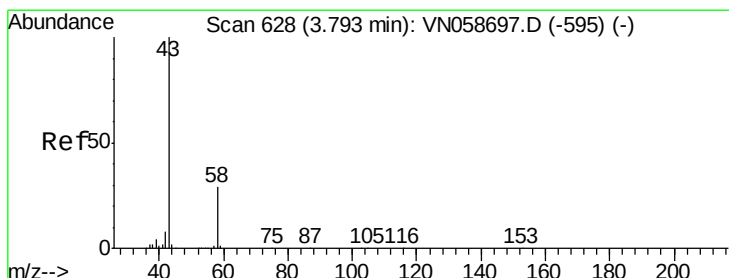
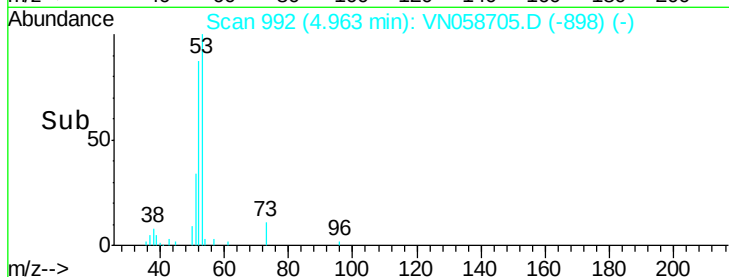
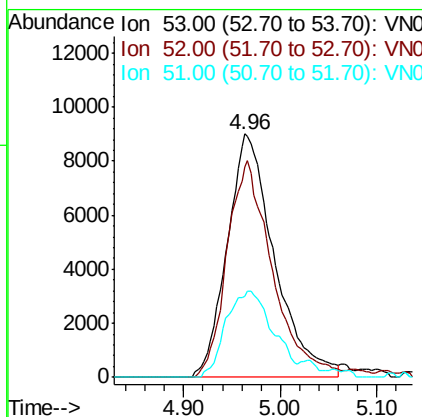
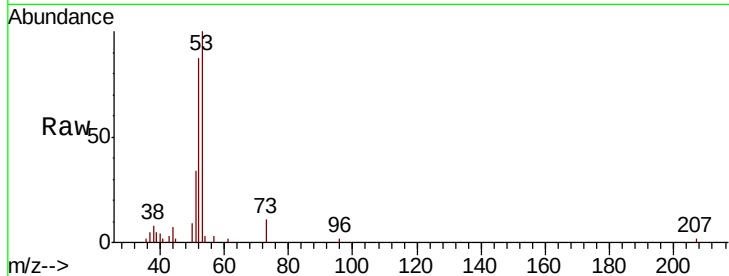
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	53	Resp:	30559
Ion	Ratio	Lower	Upper
53	100		
52	85.6	66.2	99.2
51	35.2	29.4	44.2

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:35 AM



#16

Acetone

Concen: 12.188 ug/l

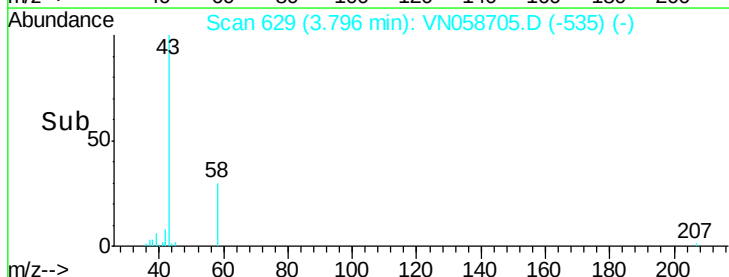
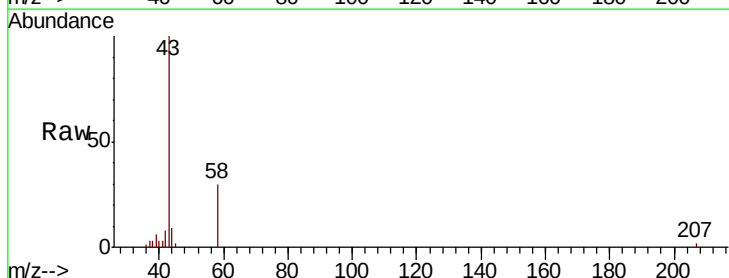
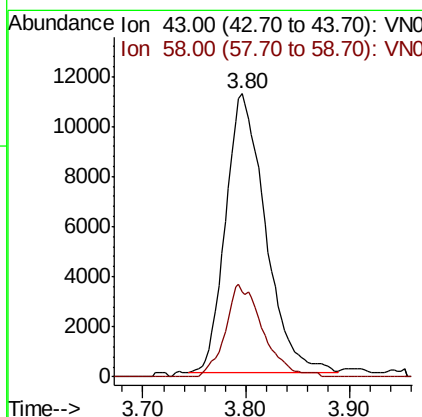
RT: 3.80 min Scan# 629

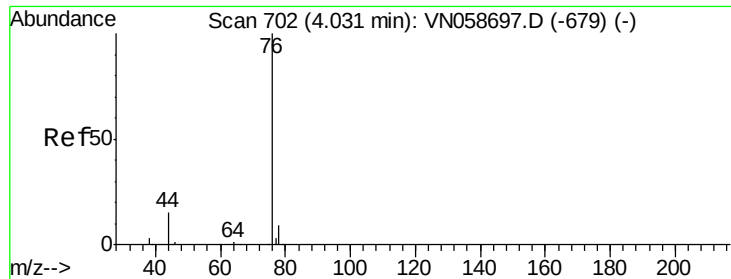
Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Tgt Ion:	43	Resp:	29748
Ion	Ratio	Lower	Upper
43	100		
58	30.7	23.3	34.9





#17

Carbon Disulfide

Concen: 2.687 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 76 Resp: 34737

Ion Ratio Lower Upper

76 100

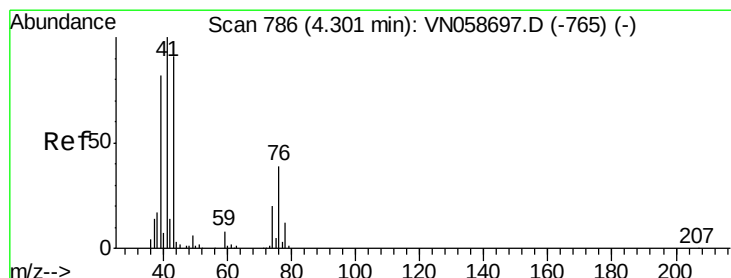
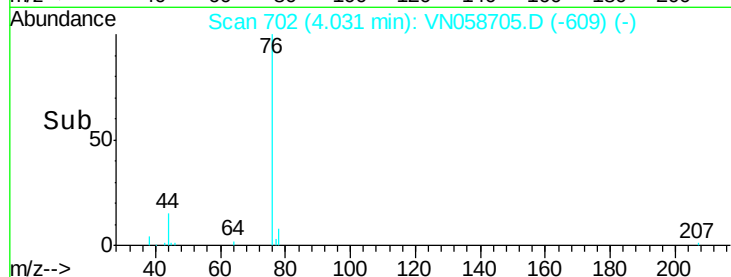
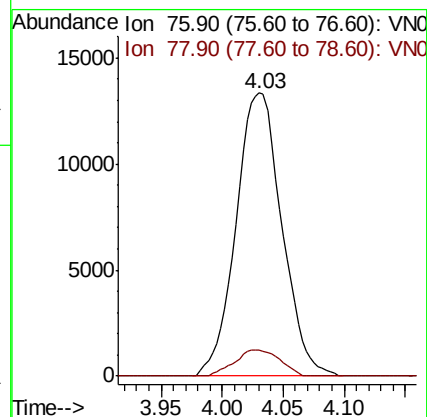
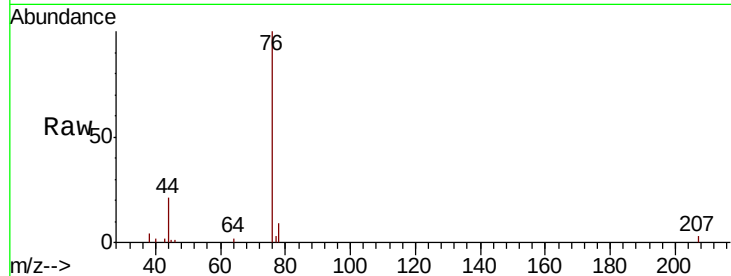
78 9.1 7.1 10.7

Manual Integrations

APPROVED

MMDadoda

10/16/2019 12:48:35 AM



#18

Methyl Acetate

Concen: 2.772 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN058705.D

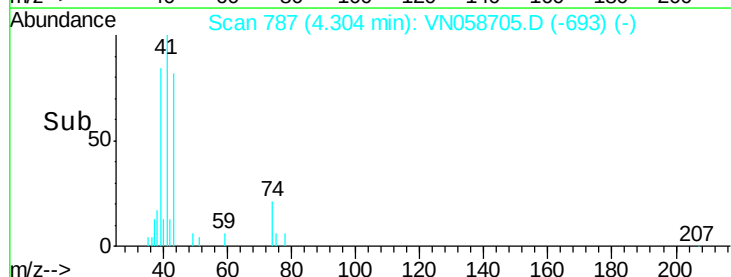
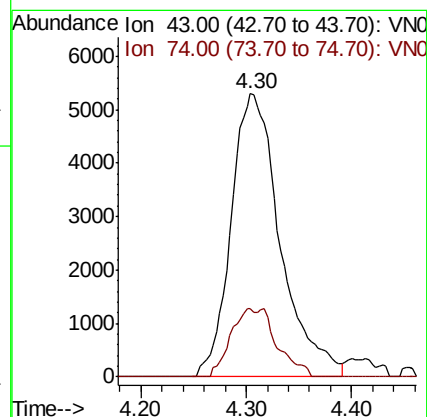
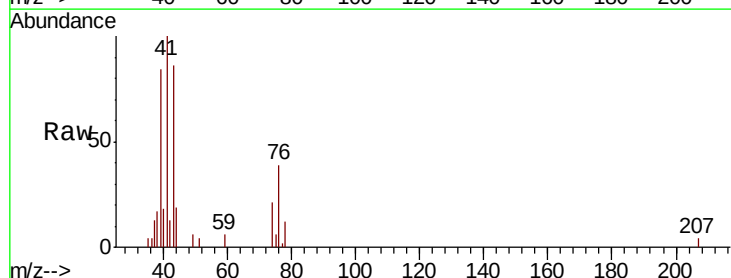
Acq: 11 Oct 2019 15:58

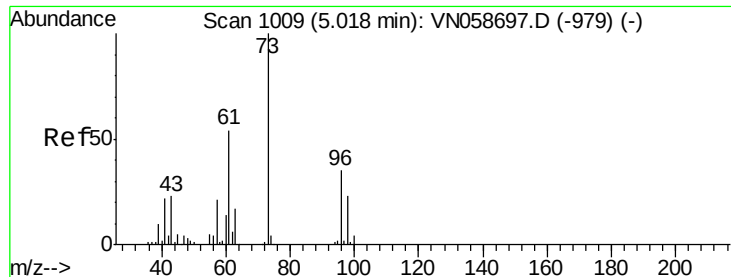
Tgt Ion: 43 Resp: 17164

Ion Ratio Lower Upper

43 100

74 12.9 17.2 25.8#





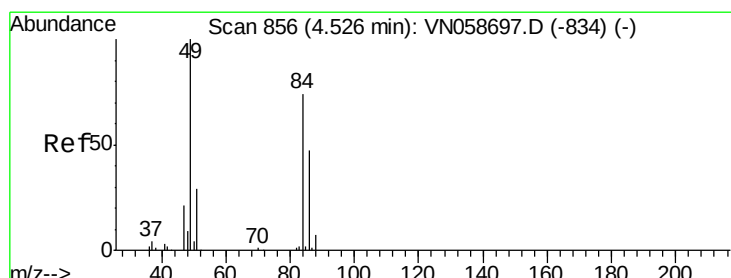
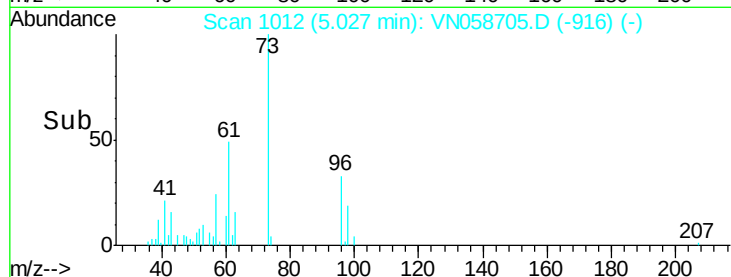
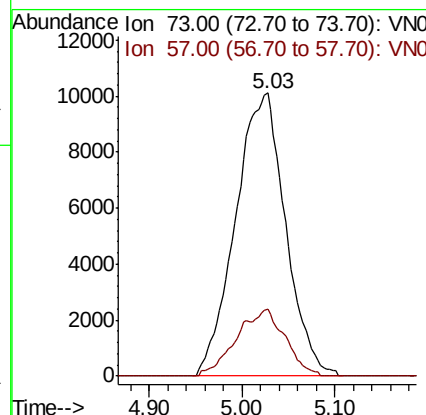
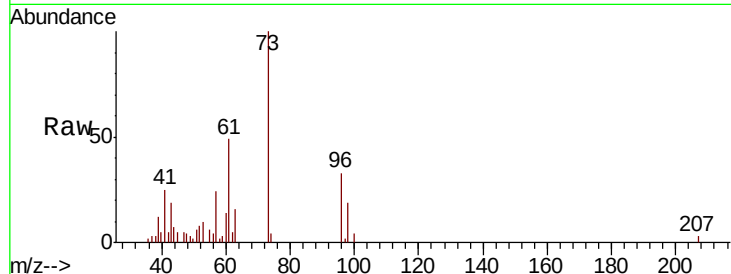
#19
Methyl tert-butyl Ether
Concen: 2.626 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.01 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 73 Resp: 37920
Ion Ratio Lower Upper
73 100
57 23.6 17.0 25.6

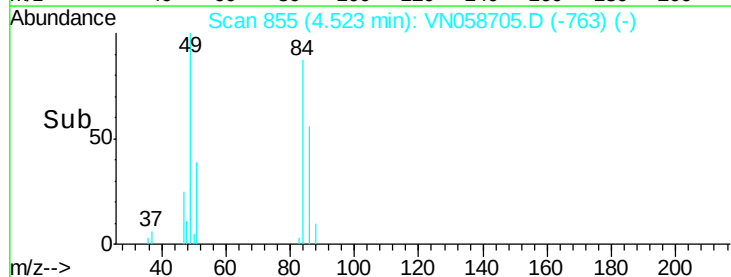
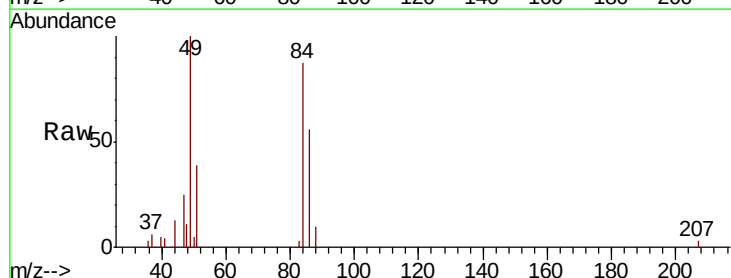
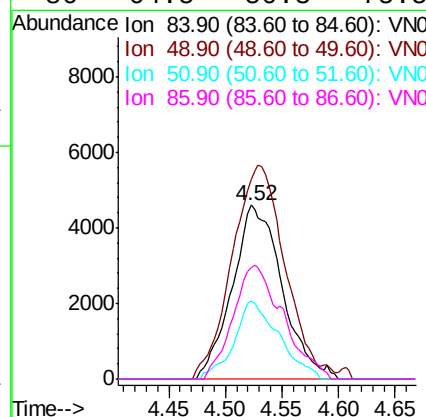
Manual Integrations
APPROVED

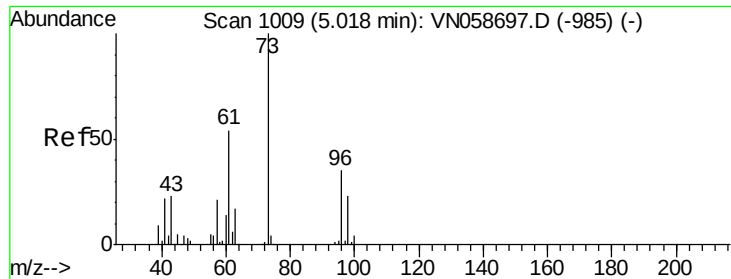
MMDadoda
10/16/2019 12:48:35 AM



#20
Methylene Chloride
Concen: 2.765 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion: 84 Resp: 14106
Ion Ratio Lower Upper
84 100
49 115.5 107.6 161.4
51 45.2 31.4 47.0
86 64.5 50.3 75.5





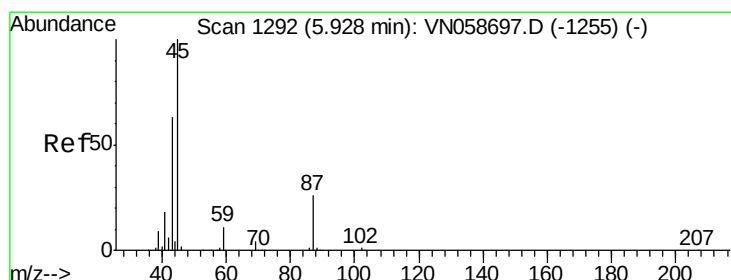
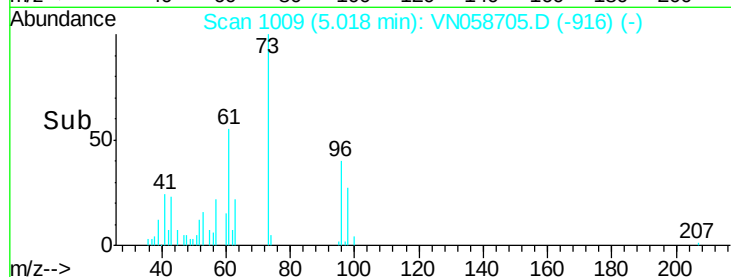
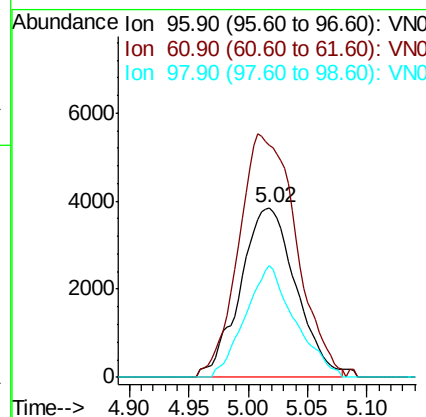
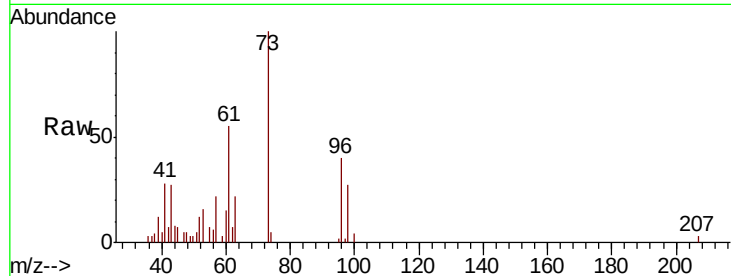
#21
trans-1,2-Dichloroethene
Concen: 2.752 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.1	123.6	185.4
98	66.1	52.1	78.1

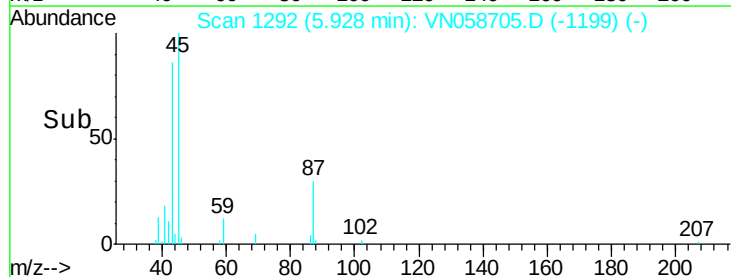
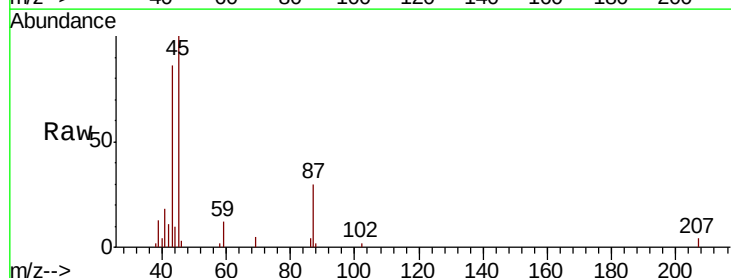
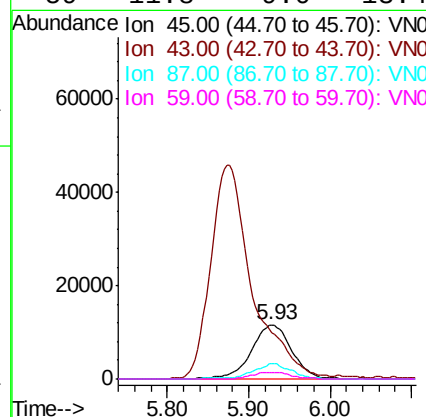
Manual Integrations
APPROVED

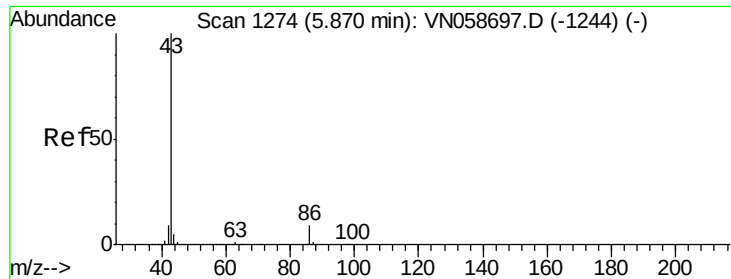
MMDadoda
10/16/2019 12:48:35 AM



#22
Diisopropyl ether
Concen: 2.503 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
45	100		
43	80.4	50.6	75.8#
87	29.6	21.1	31.7
59	11.8	9.0	13.4





#23

Vinyl Acetate

Concen: 12.786 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 163723

Ion Ratio Lower Upper

43 100

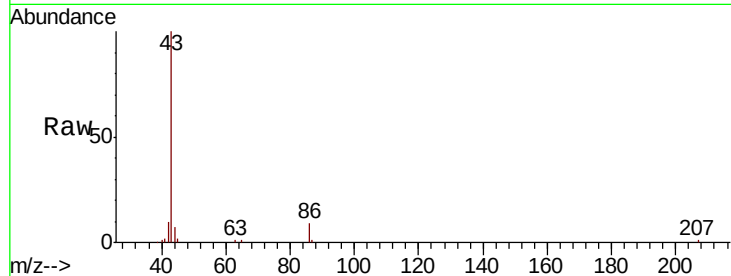
86 9.3 7.4 11.0

Manual Integrations

APPROVED

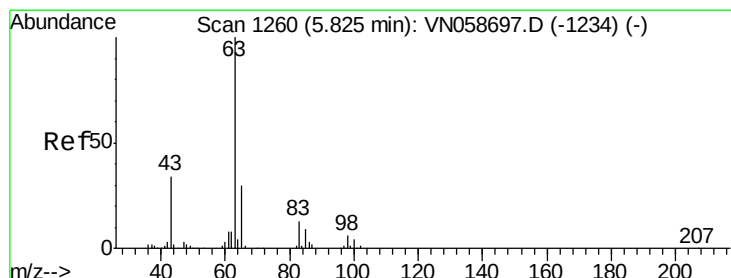
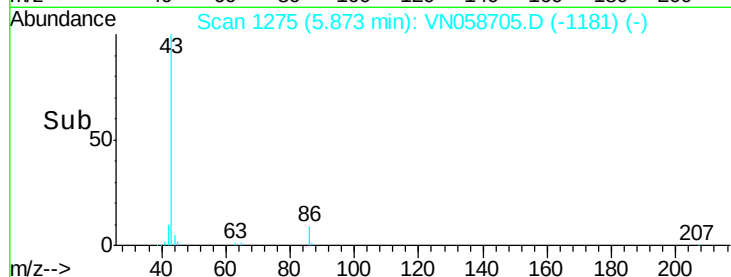
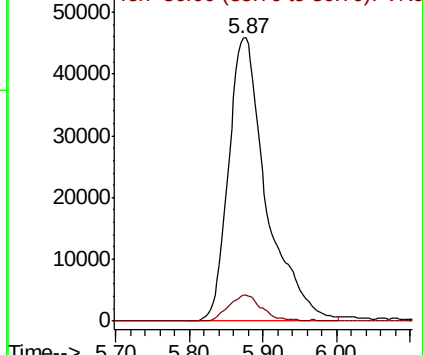
MMDadoda

10/16/2019 12:48:35 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 2.593 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

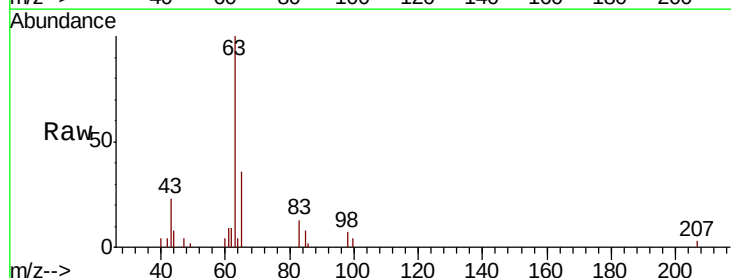
Tgt Ion: 63 Resp: 23431

Ion Ratio Lower Upper

63 100

98 6.6 2.9 8.6

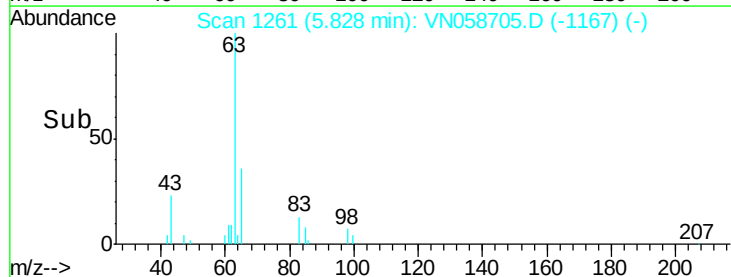
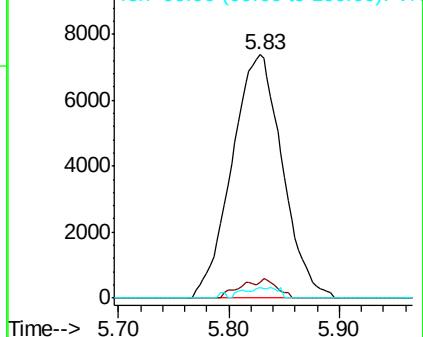
100 4.2 1.8 5.5

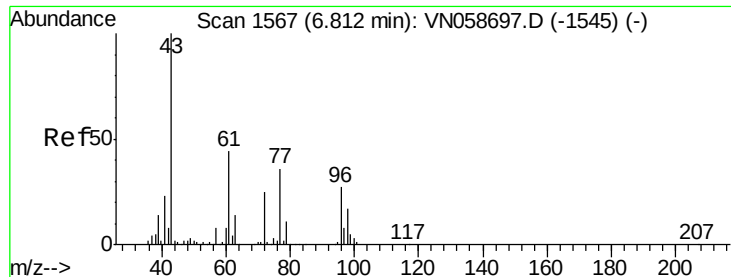


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 12.200 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 43040

Ion Ratio Lower Upper

43 100

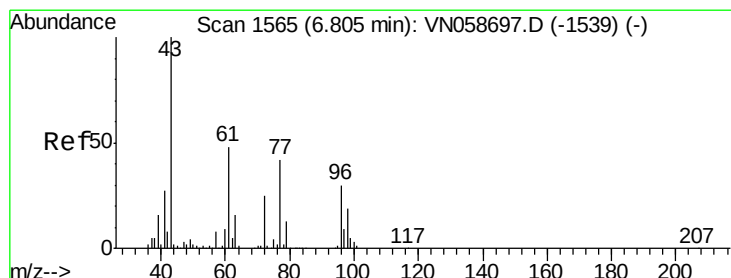
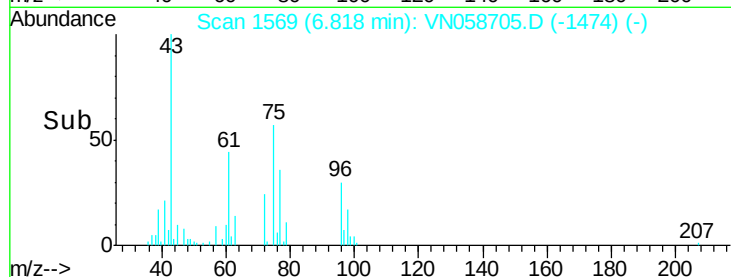
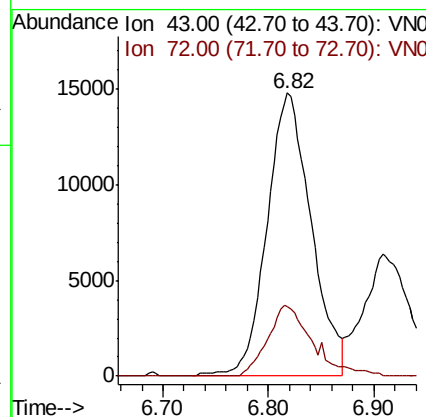
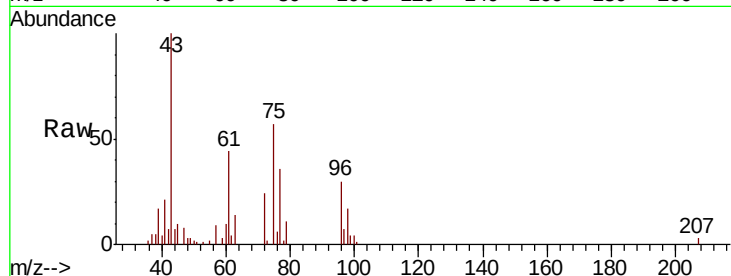
72 24.4 20.2 30.2

Manual Integrations

APPROVED

MMDadoda

10/16/2019 12:48:35 AM



#26

2,2-Dichloropropane

Concen: 2.664 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN058705.D

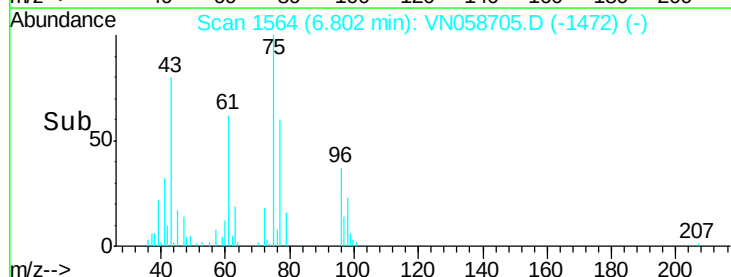
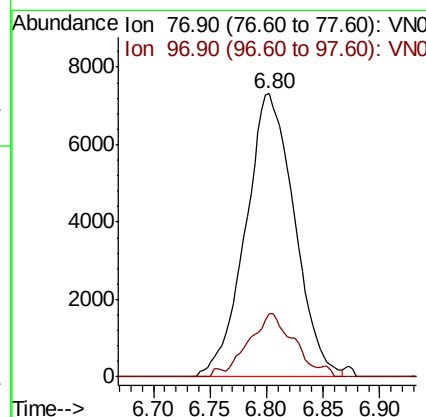
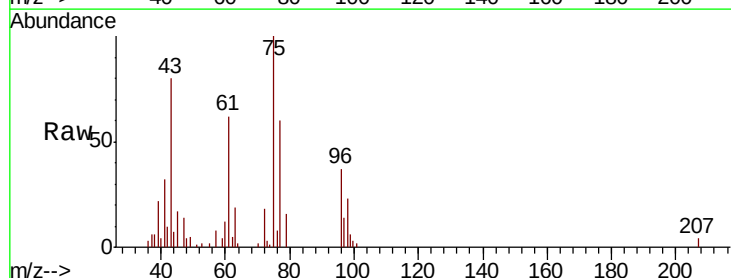
Acq: 11 Oct 2019 15:58

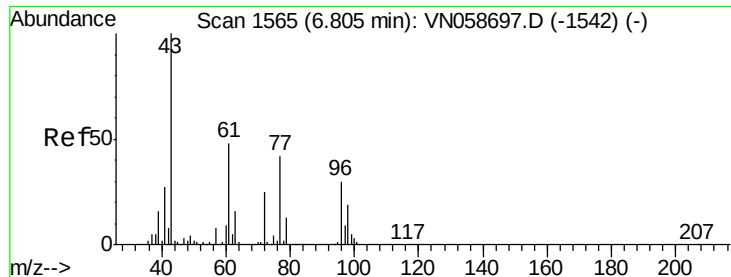
Tgt Ion: 77 Resp: 21978

Ion Ratio Lower Upper

77 100

97 20.6 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 2.656 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

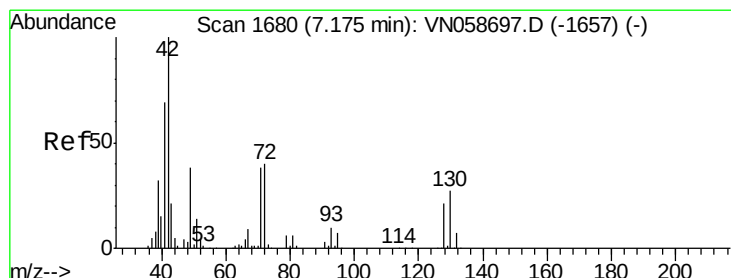
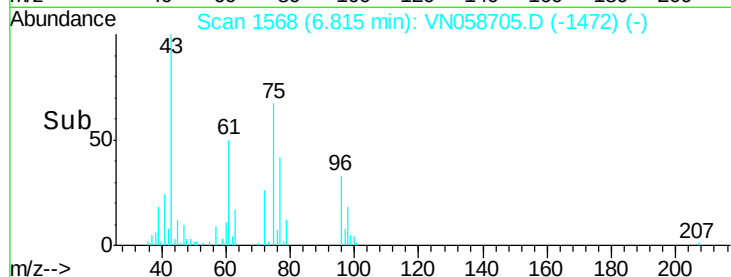
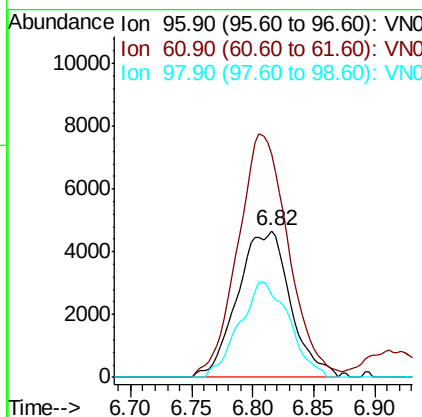
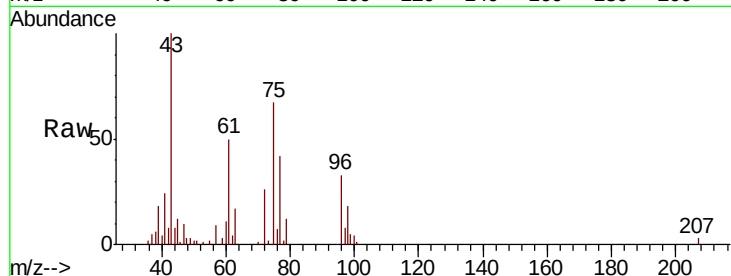
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	96	Resp:	14012
Ion	Ratio	Lower	Upper
96	100		
61	159.1	0.0	324.8
98	61.2	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:35 AM



#28

Bromochloromethane

Concen: 2.528 ug/l m

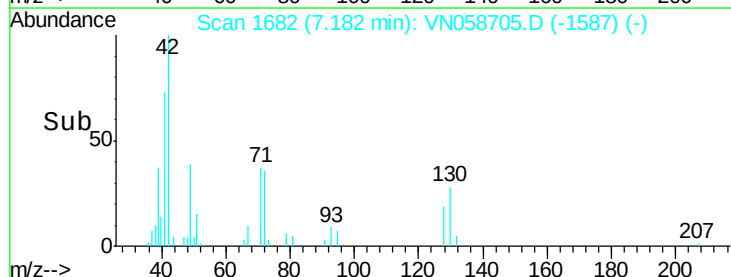
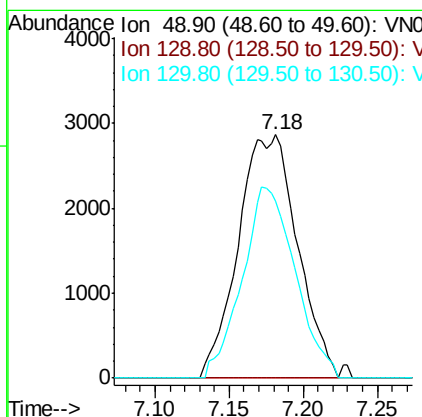
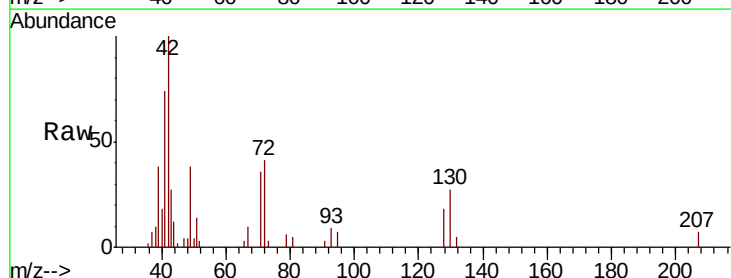
RT: 7.18 min Scan# 1682

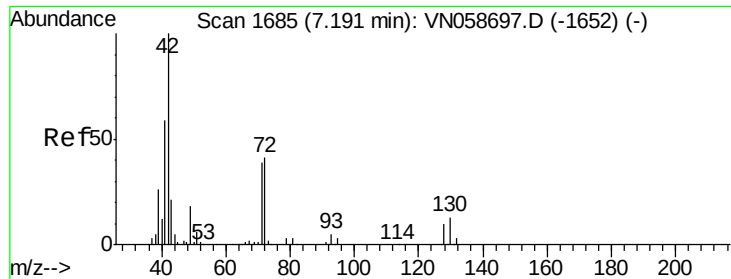
Delta R.T. 0.01 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Tgt Ion:	49	Resp:	7949
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	70.5	55.0	82.4





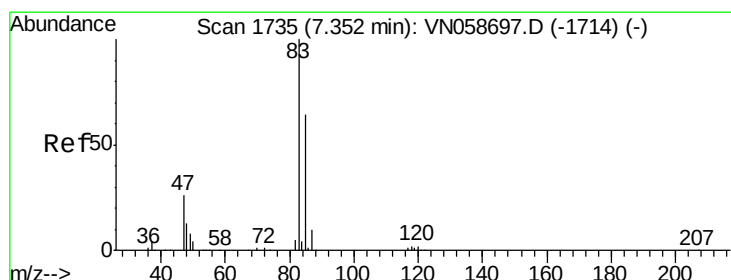
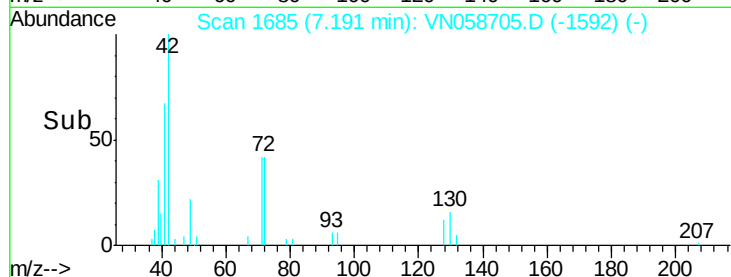
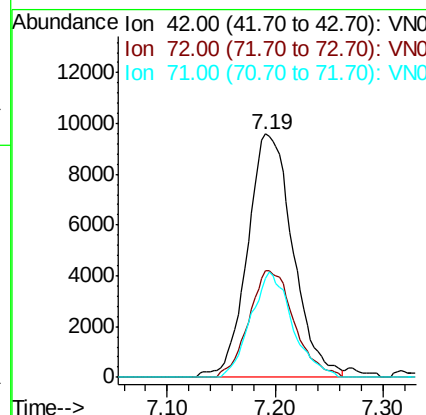
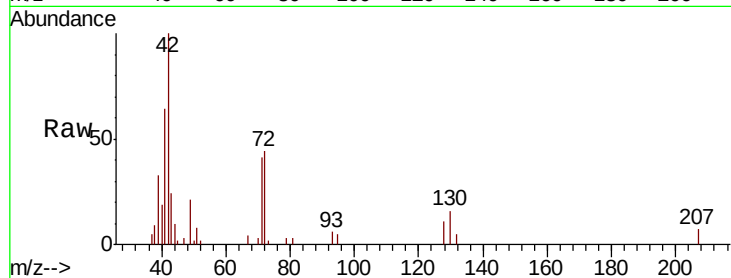
#29
Tetrahydrofuran
Concen: 12.313 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.5	32.8	49.2
71	39.5	31.1	46.7

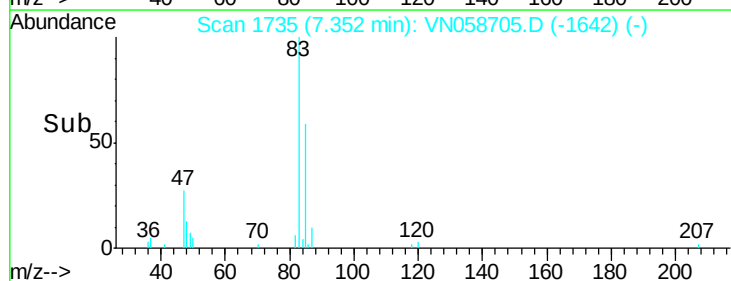
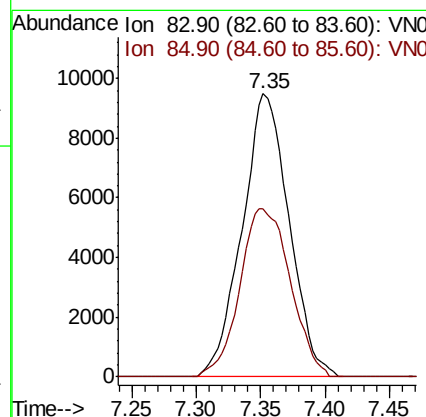
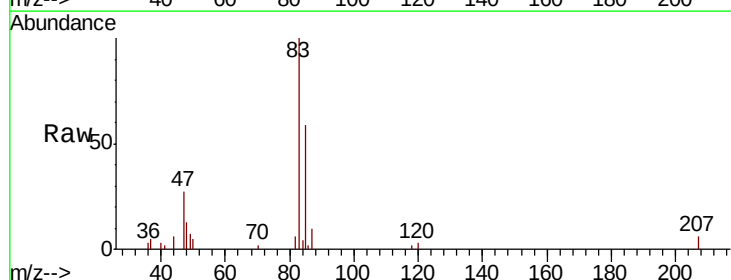
Manual Integrations
APPROVED

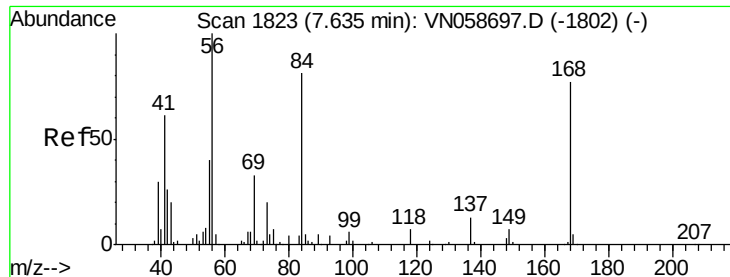
MMDadoda
10/16/2019 12:48:35 AM



#30
Chloroform
Concen: 2.653 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.3	51.0	76.6





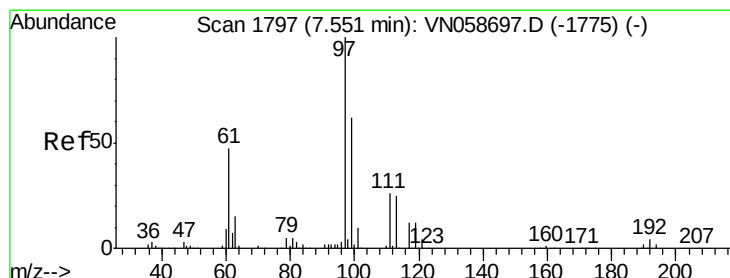
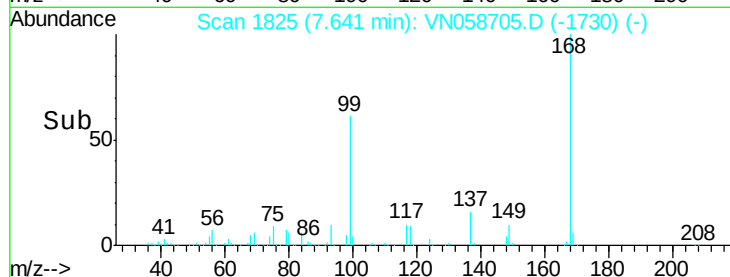
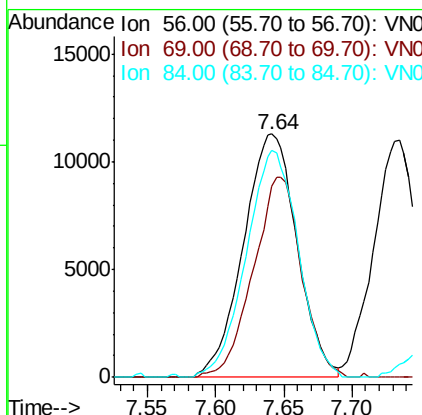
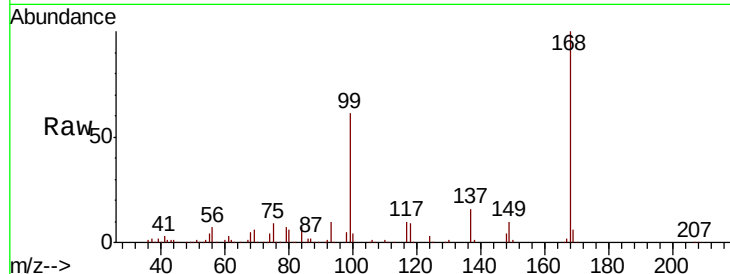
#31
Cyclohexane
Concen: 3.559 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
56	100		
69	78.4	26.2	39.4#
84	93.4	64.9	97.3

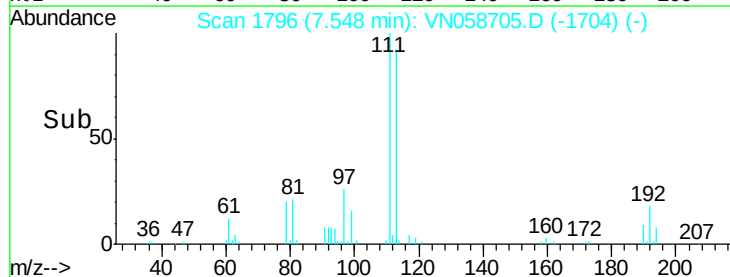
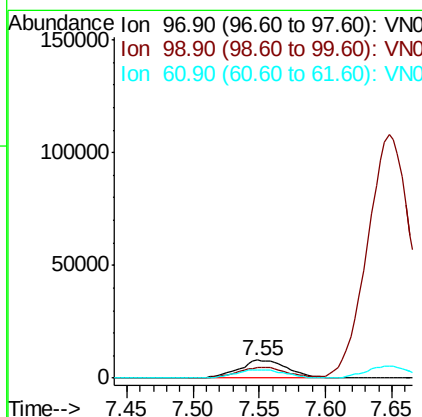
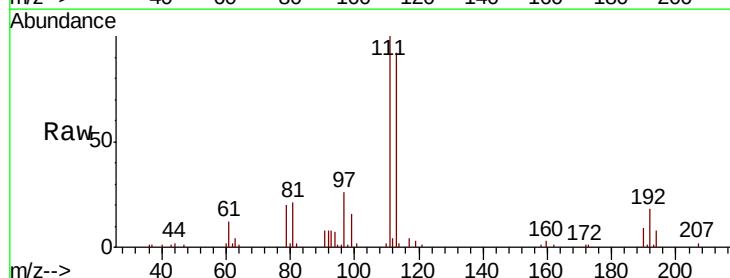
Manual Integrations
APPROVED

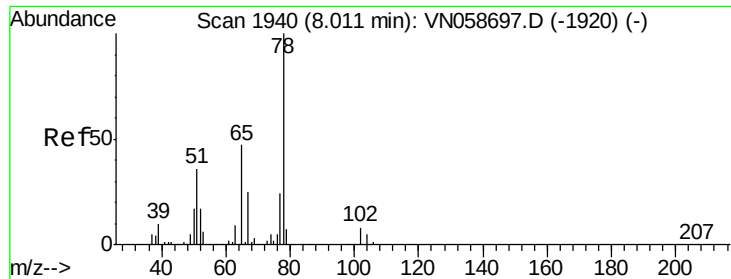
MMDadoda
10/16/2019 12:48:35 AM



#32
1,1,1-Trichloroethane
Concen: 2.629 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
97	100		
61	62.7	50.8	76.2
111	48.2	38.1	57.1





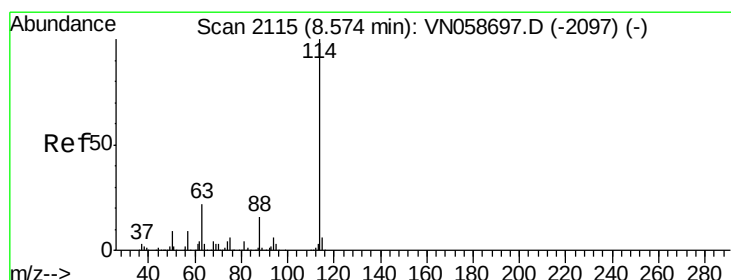
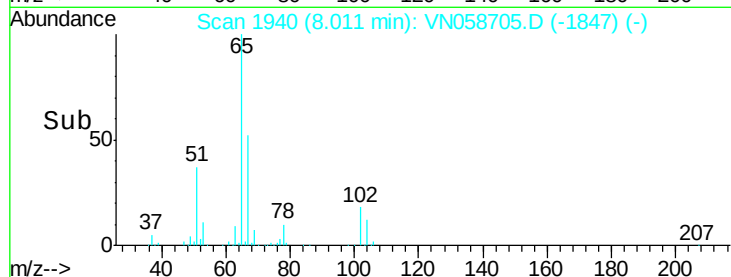
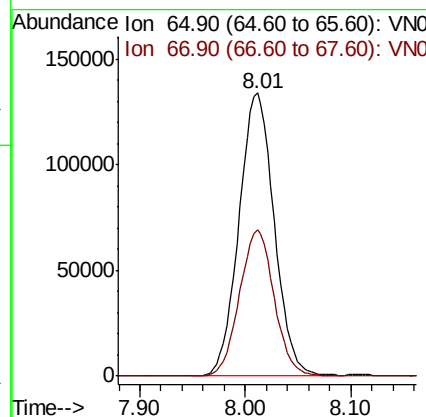
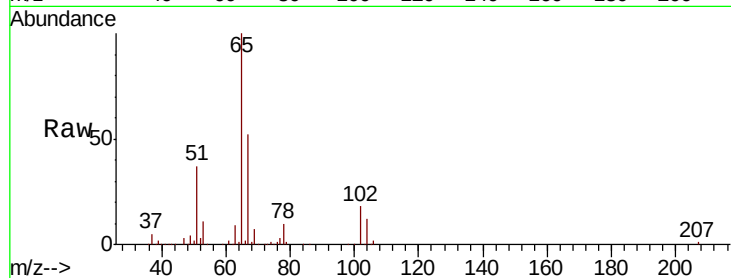
#33
 1,2-Dichloroethane-d4
 Concen: 52.731 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058705.D
 Acq: 11 Oct 2019 15:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	310877		
67	51.0	0.0	103.8	

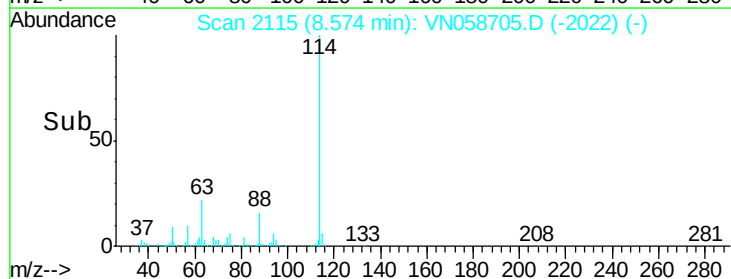
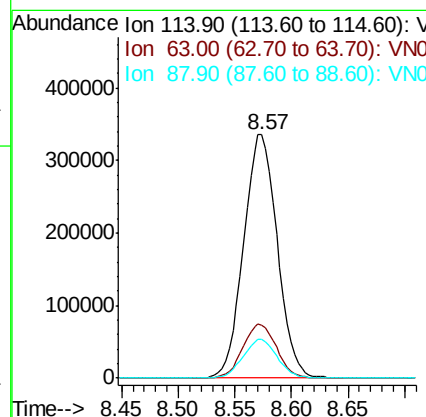
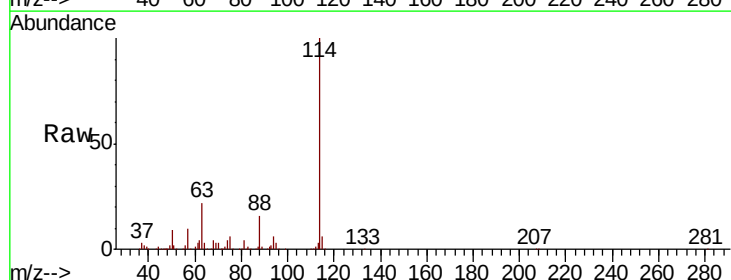
Manual Integrations
 APPROVED

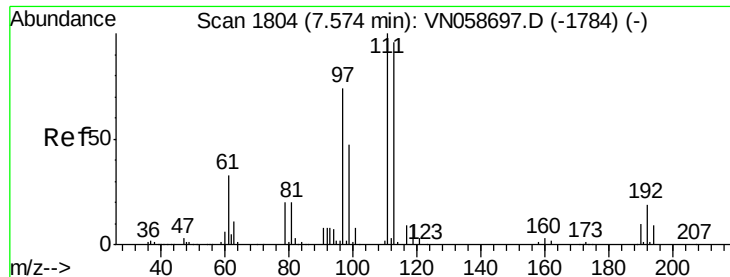
MMDadoda
 10/16/2019 12:48:35 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058705.D
 Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	694830		
63	21.9	0.0	43.8	
88	16.1	0.0	32.0	





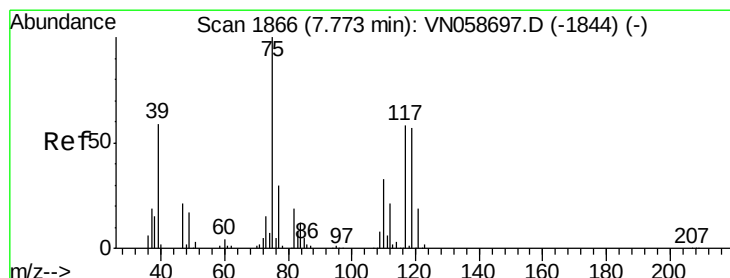
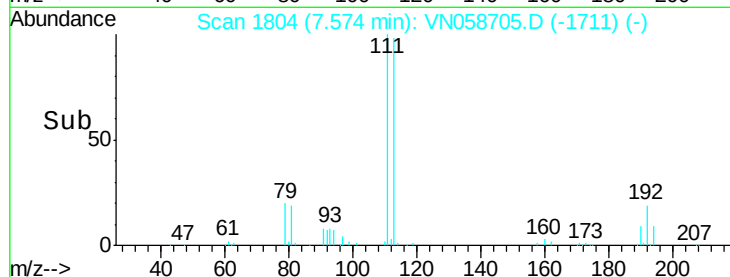
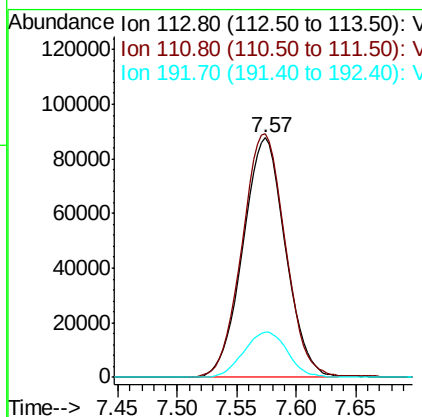
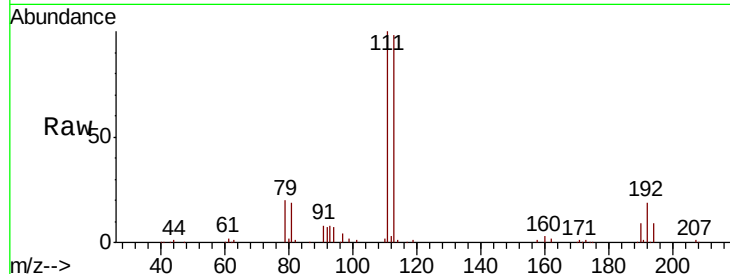
#35
Dibromofluoromethane
Concen: 50.647 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100	217368		
111	103.2	82.3	123.5	
192	19.5	15.0	22.6	

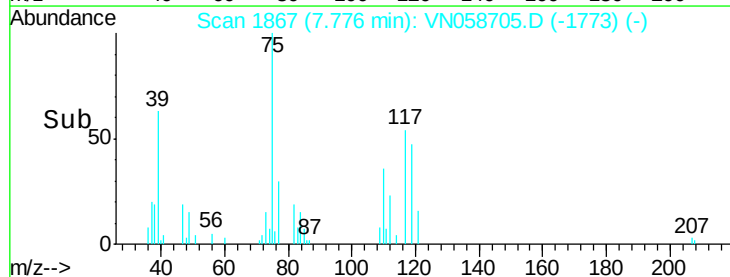
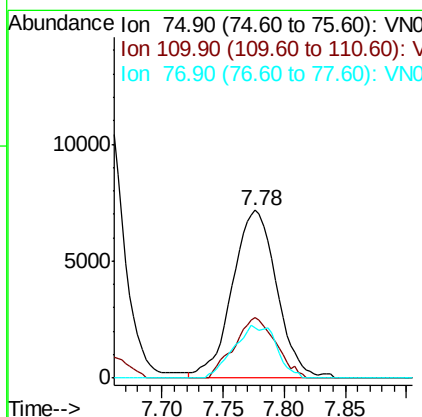
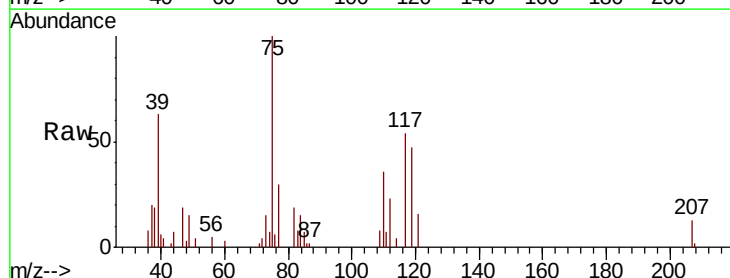
Manual Integrations
APPROVED

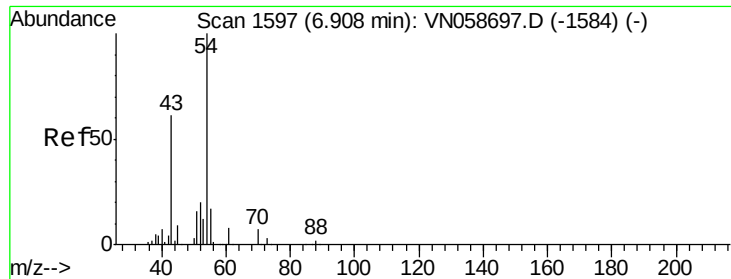
MMDadoda
10/16/2019 12:48:35 AM



#36
1,1-Dichloropropene
Concen: 2.578 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	18112		
110	33.5	16.6	49.8	
77	30.1	24.6	37.0	





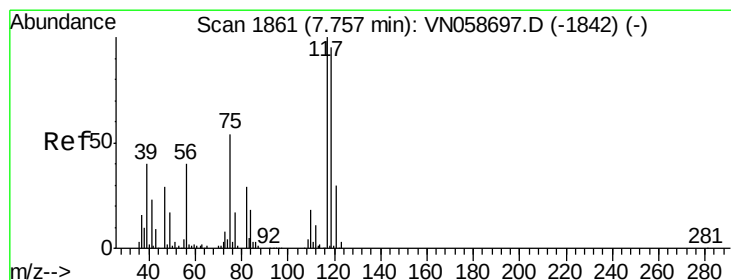
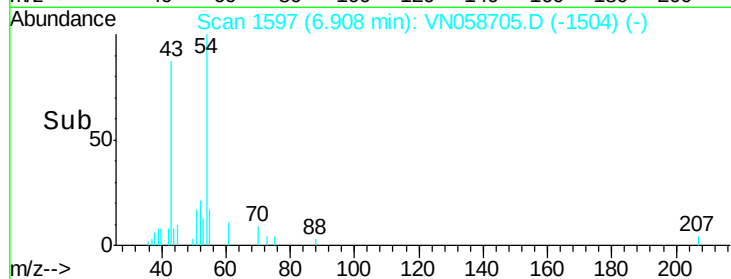
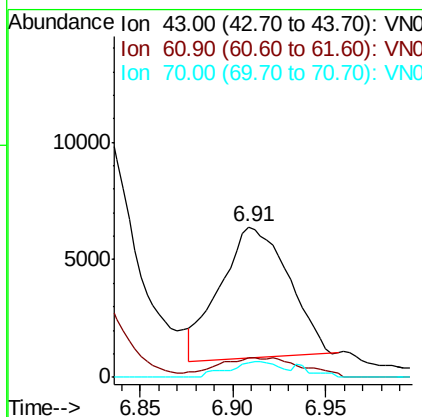
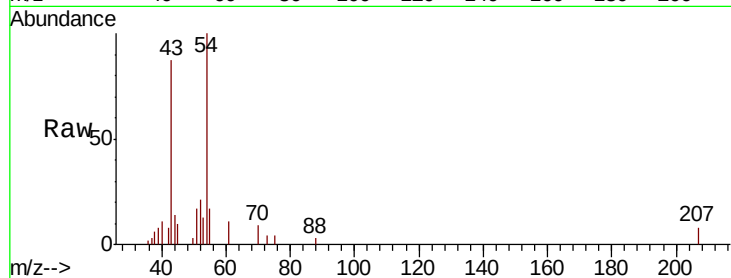
#37
Ethyl Acetate
Concen: 2.011 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	7.3	11.3	16.9#
70	8.9	7.2	10.8

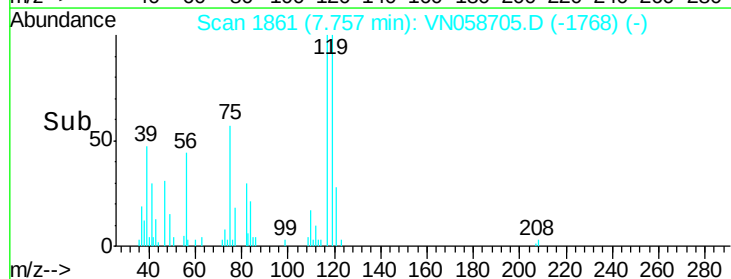
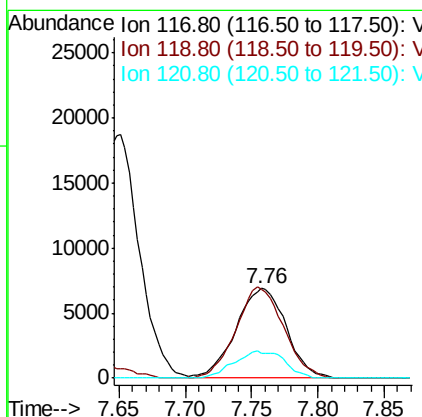
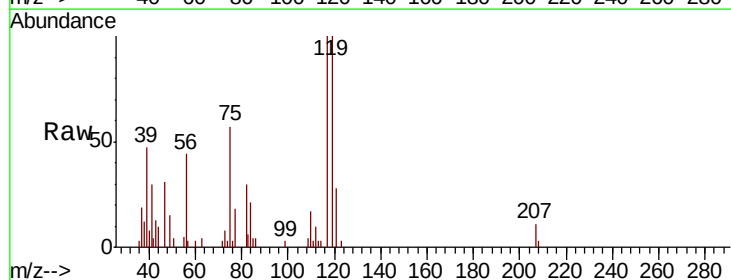
Manual Integrations
APPROVED

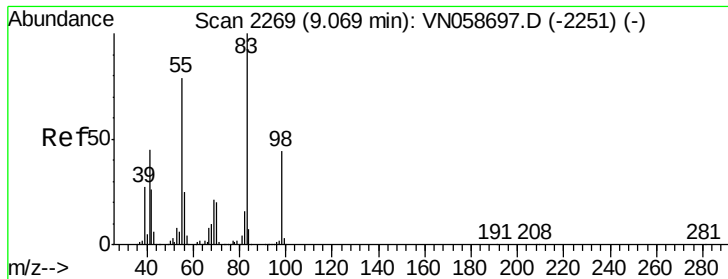
MMDadoda
10/16/2019 12:48:35 AM



#38
Carbon Tetrachloride
Concen: 2.657 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.7	75.7	113.5
121	28.3	23.9	35.9





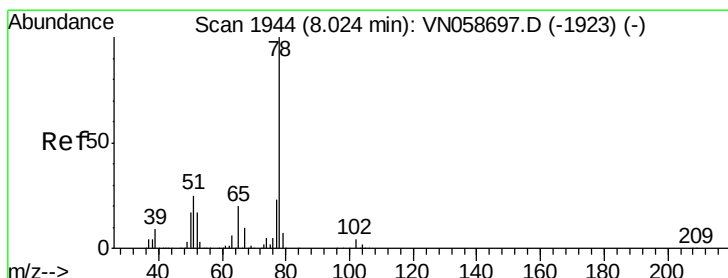
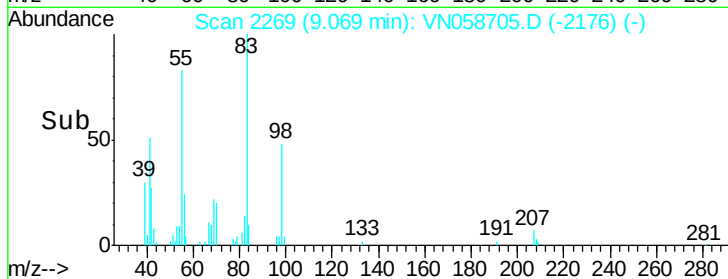
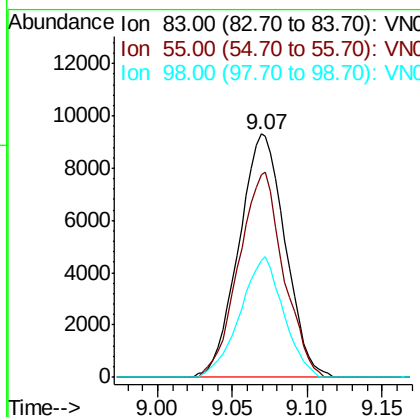
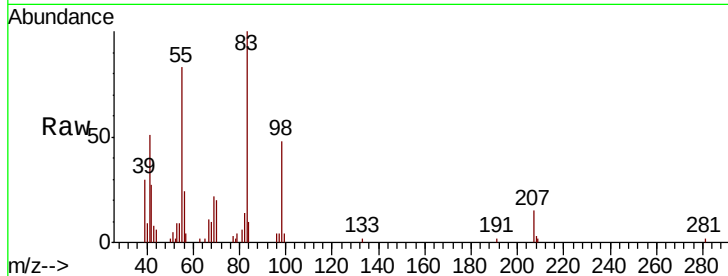
#39
Methylvlcyclohexane
Concen: 2.457 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.3	63.4	95.0
98	48.3	35.1	52.7

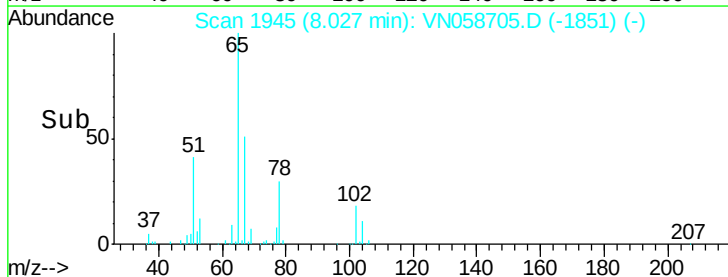
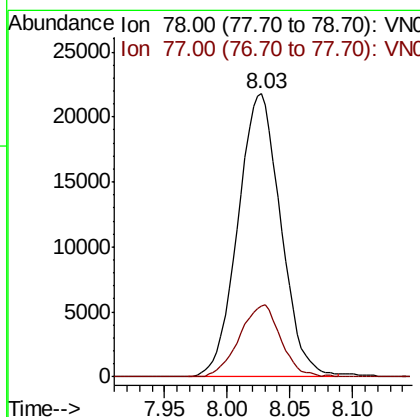
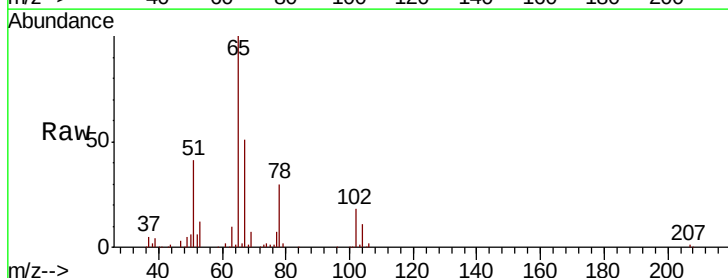
Manual Integrations
APPROVED

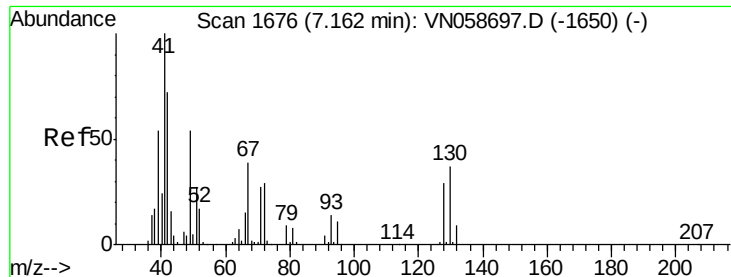
MMDadoda
10/16/2019 12:48:35 AM



#40
Benzene
Concen: 2.564 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.2	18.8	28.2





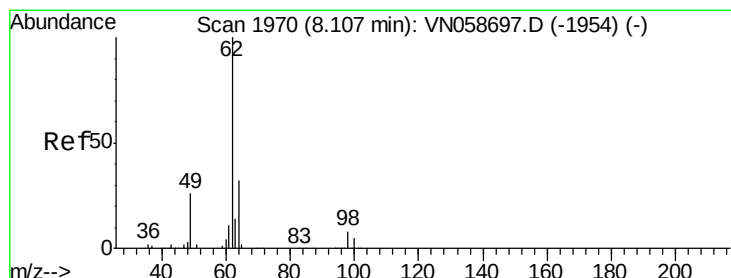
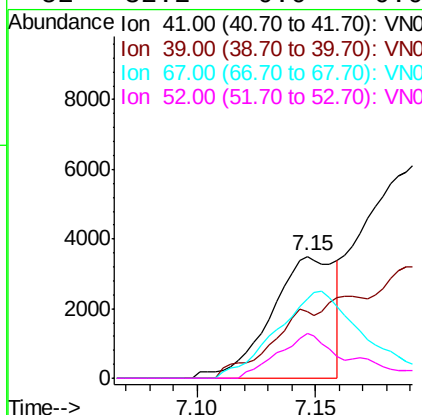
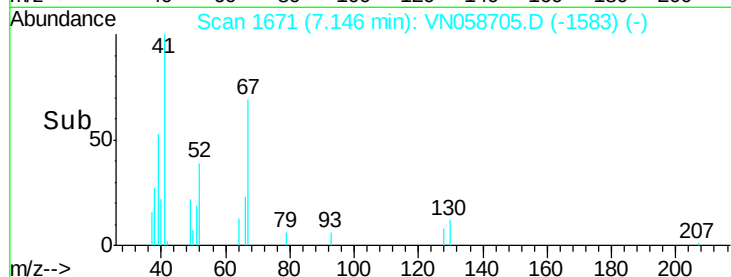
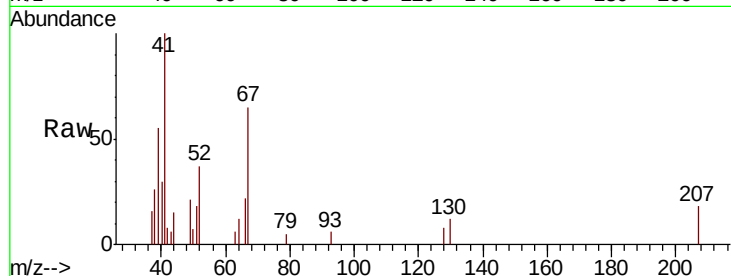
#41
Methacrylonitrile
Concen: 2.000 ug/l m
RT: 7.15 min Scan# 1671
Delta R.T. -0.02 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	39.9	115.4	173.2#
67	0.0	0.0	0.0
52	32.2	0.0	0.0#

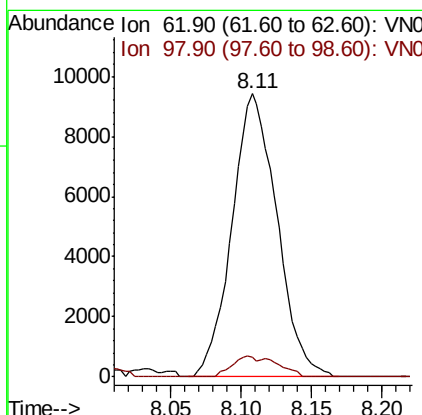
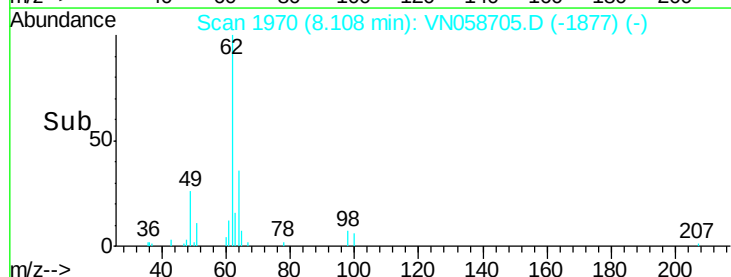
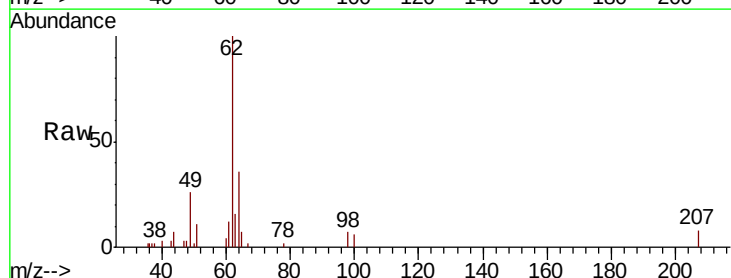
Manual Integrations
APPROVED

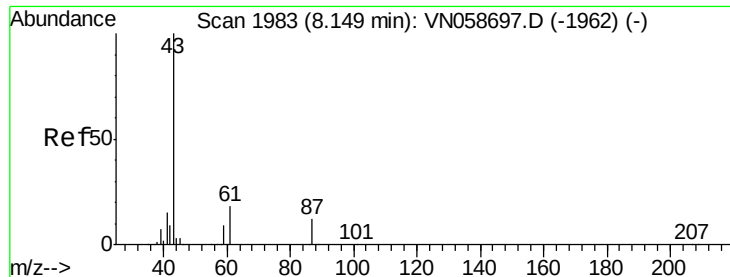
MMDadoda
10/16/2019 12:48:35 AM



#42
1,2-Dichloroethane
Concen: 2.711 ug/l
RT: 8.11 min Scan# 1970
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
62	100		
98	4.5	0.0	15.8





#43

Isopropyl Acetate

Concen: 2.368 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

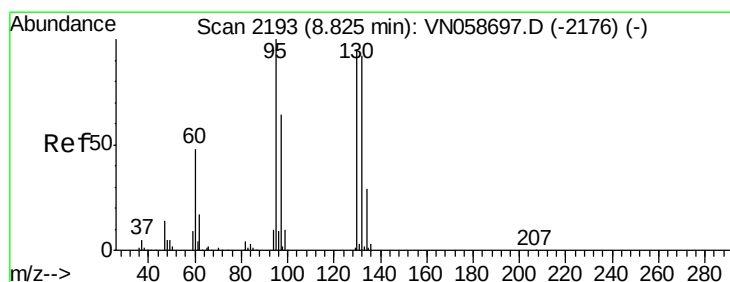
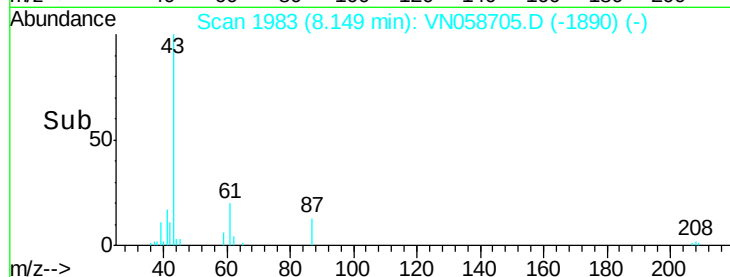
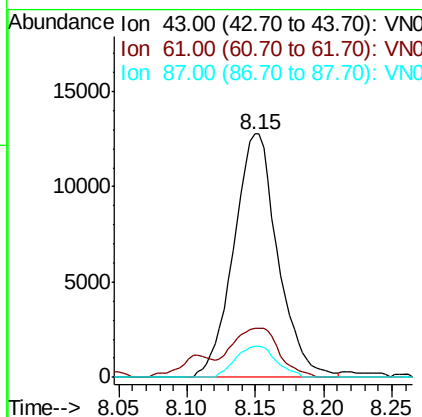
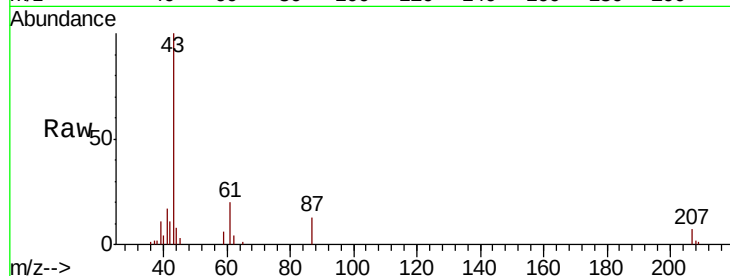
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	43	Resp:	28658
Ion	Ratio	Lower	Upper
43	100		
61	21.9	20.3	30.5
87	11.8	9.8	14.6

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:35 AM



#44

Trichloroethene

Concen: 2.573 ug/l

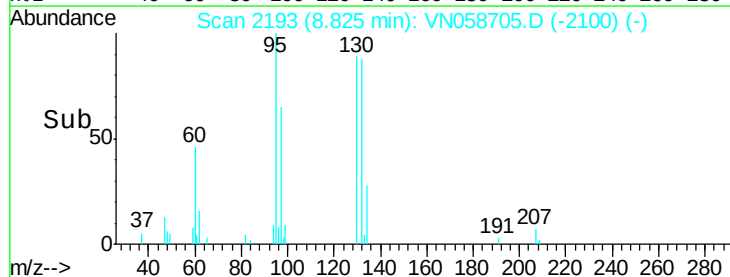
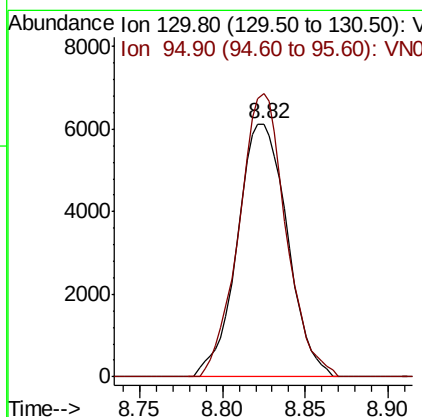
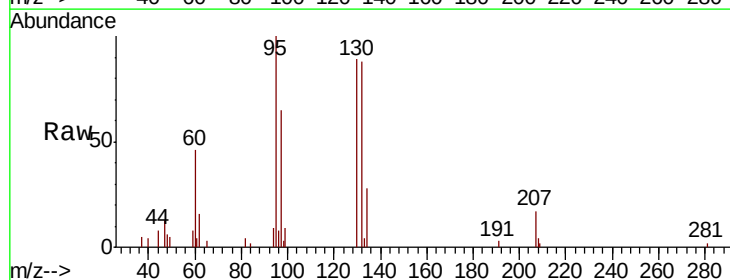
RT: 8.82 min Scan# 2193

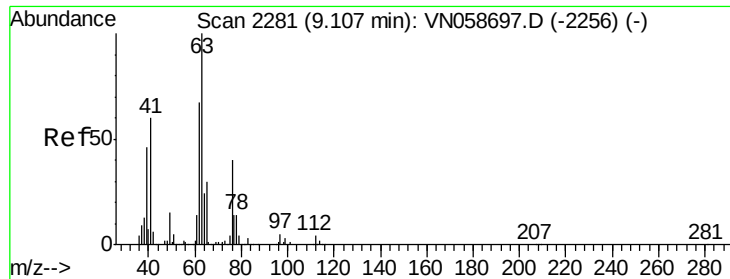
Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Tgt Ion:	130	Resp:	12893
Ion	Ratio	Lower	Upper
130	100		
95	111.9	0.0	211.2





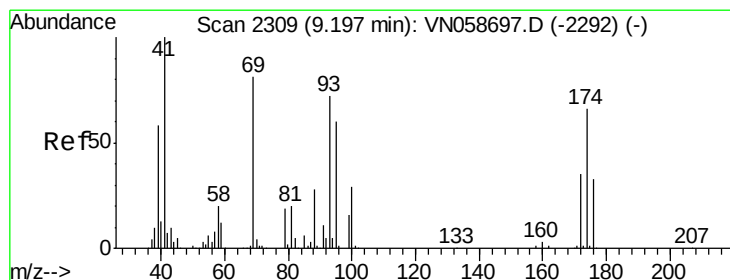
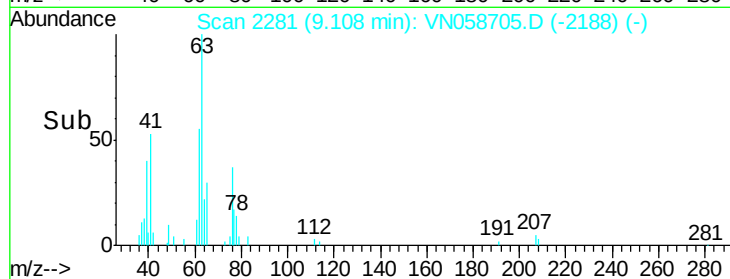
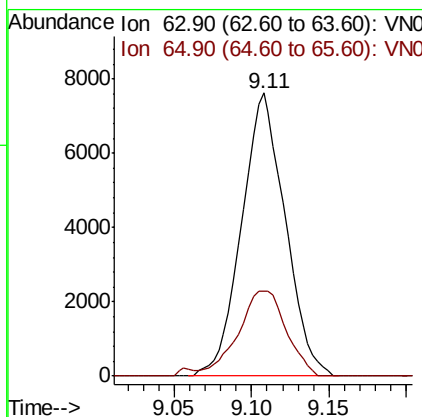
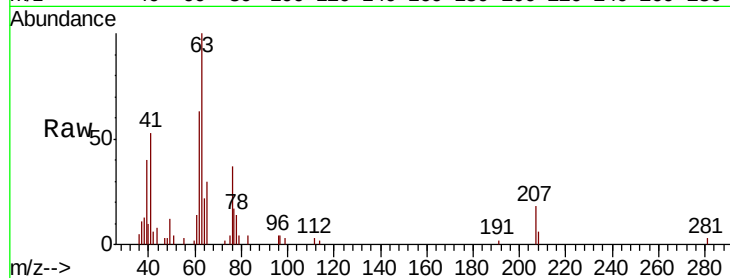
#45
 1,2-Dichloropropane
 Concen: 2.769 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. 0.00 min
 Lab File: VN058705.D
 Acq: 11 Oct 2019 15:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.1	36.1

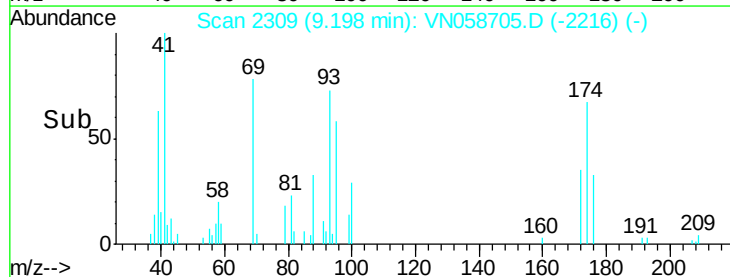
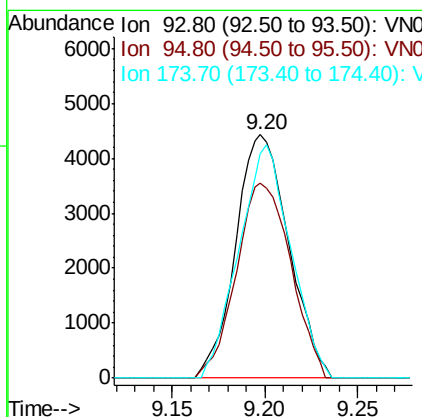
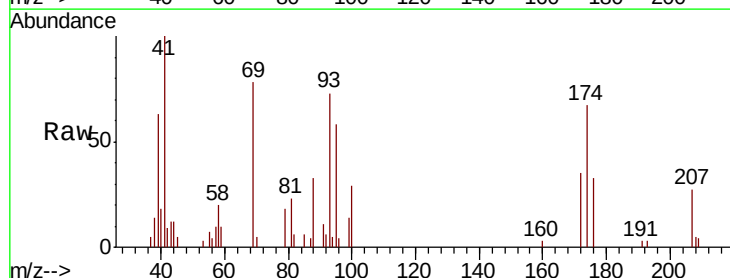
Manual Integrations
 APPROVED

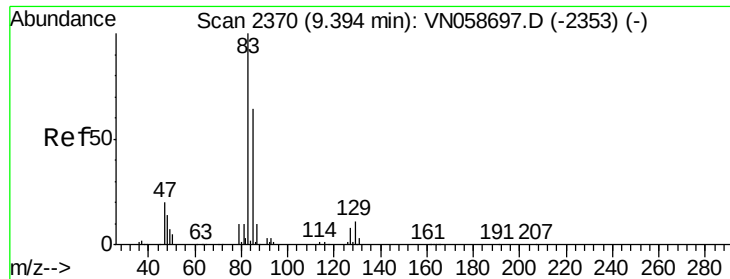
MMDadoda
 10/16/2019 12:48:35 AM



#46
 Dibromomethane
 Concen: 2.569 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN058705.D
 Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.1	66.6	100.0
174	93.4	75.2	112.8





#47

Bromodichloromethane

Concen: 2.425 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

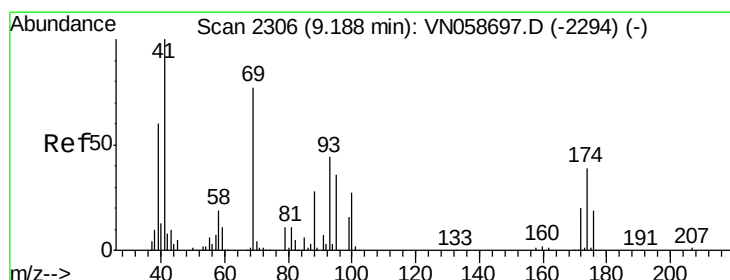
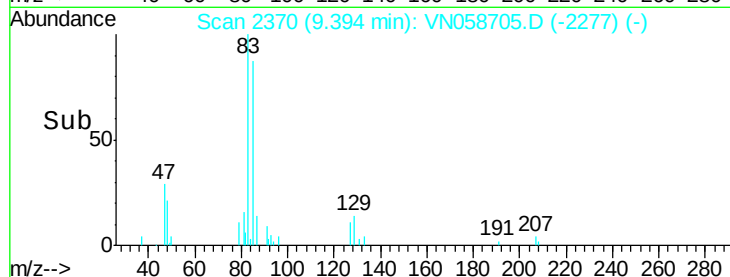
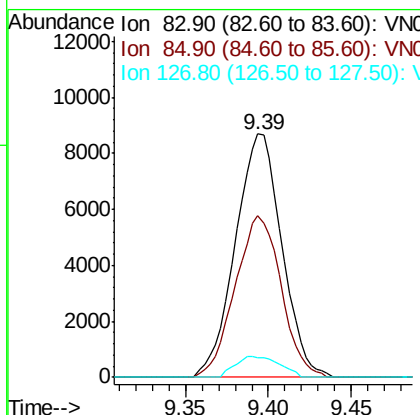
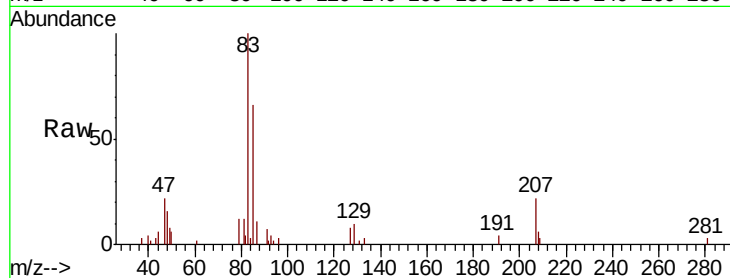
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	83	Resp:	16912
Ion Ratio	Lower	Upper	
83	100		
85	66.2	50.9	76.3
127	8.2	6.3	9.5

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:35 AM



#48

Methyl methacrylate

Concen: 2.496 ug/l

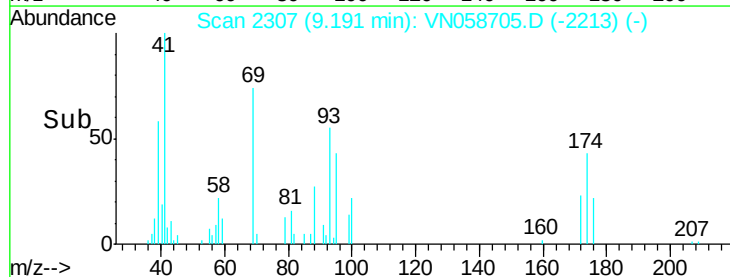
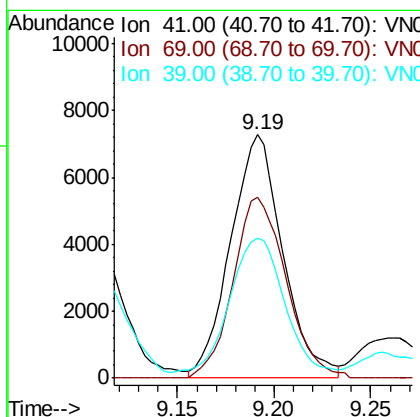
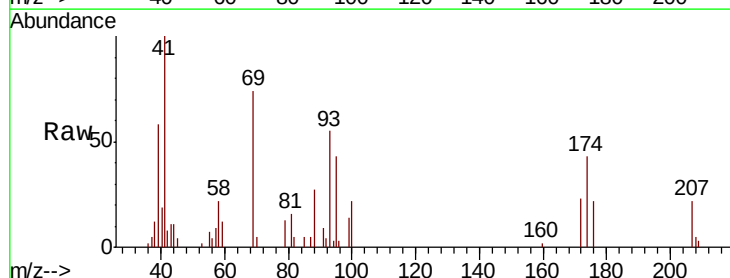
RT: 9.19 min Scan# 2307

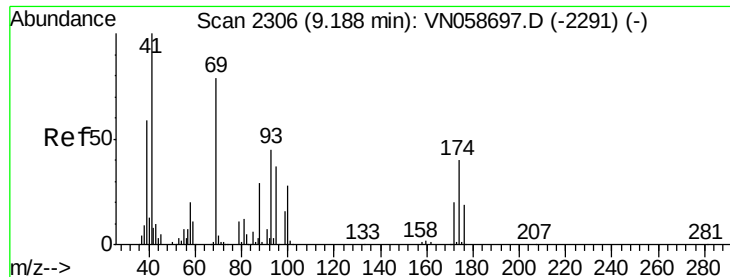
Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Tgt Ion:	41	Resp:	13692
Ion Ratio	Lower	Upper	
41	100		
69	75.1	63.4	95.2
39	62.8	48.9	73.3





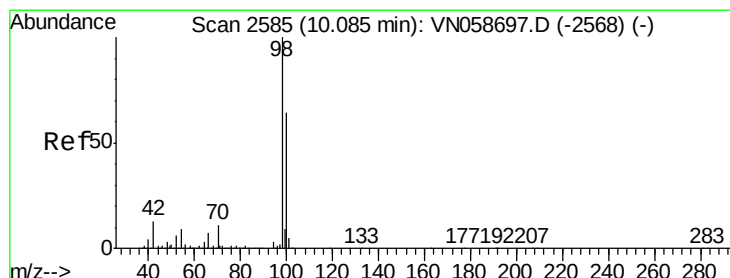
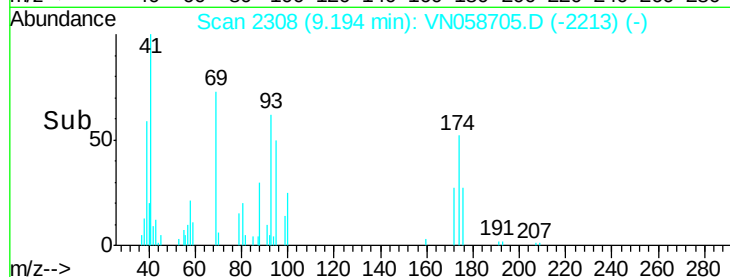
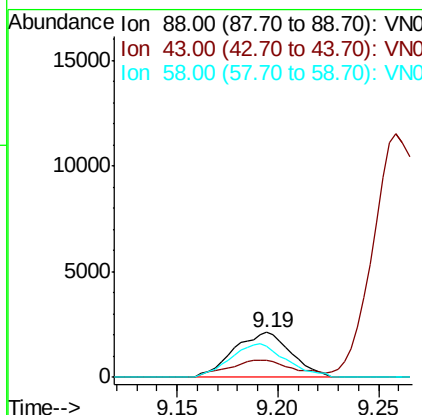
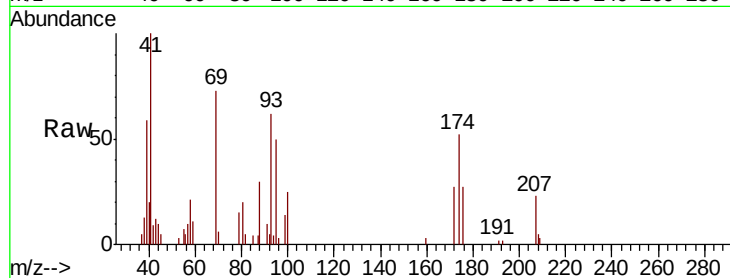
#49
1,4-Dioxane
Concen: 49.436 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.01 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	44.1	28.6	43.0#
58	72.7	57.2	85.8

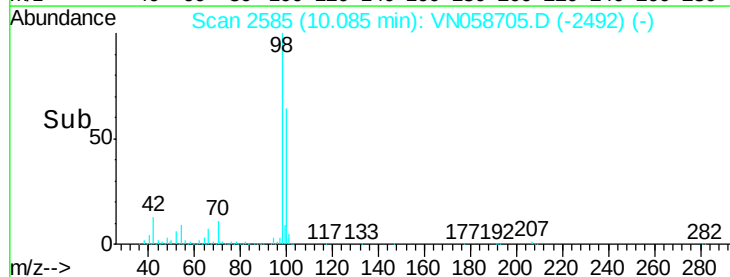
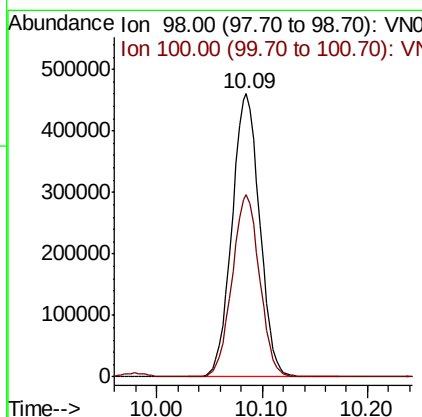
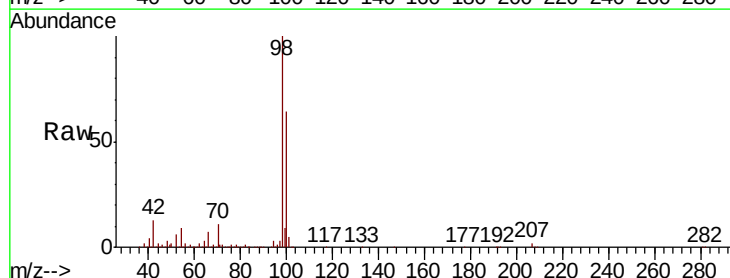
Manual Integrations
APPROVED

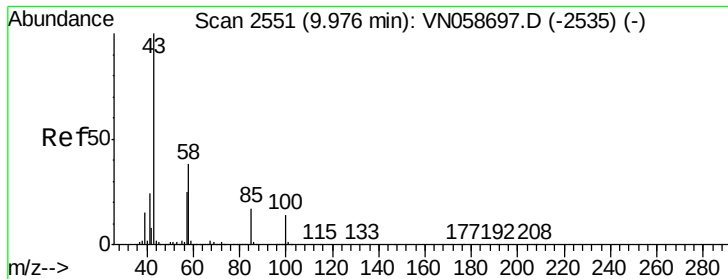
MMDadoda
10/16/2019 12:48:35 AM



#50
Toluene-d8
Concen: 48.624 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 12.453 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 84647

Ion Ratio Lower Upper

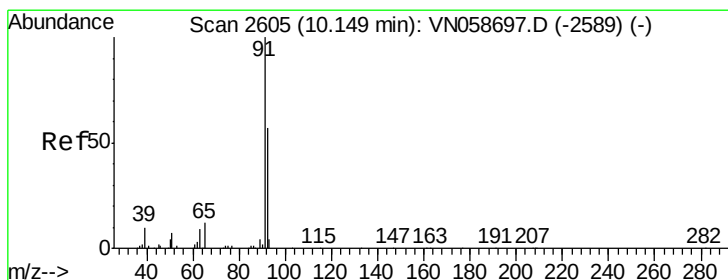
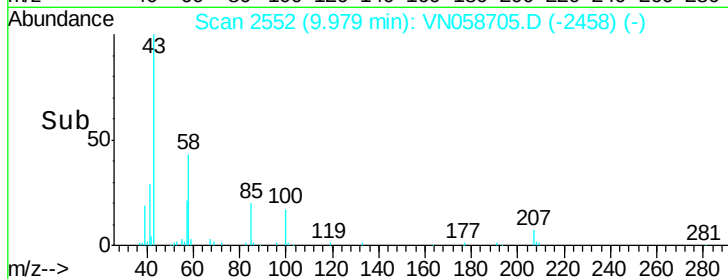
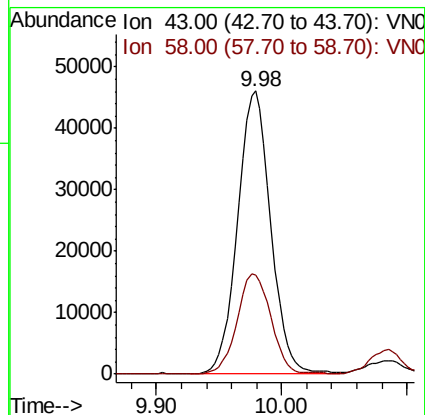
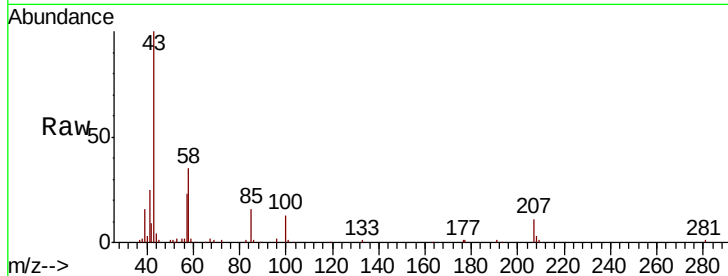
43 100

58 36.3 30.3 45.5

Manual Integrations
APPROVED

MMDadoda

10/16/2019 12:48:35 AM



#52

Toluene

Concen: 2.480 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058705.D

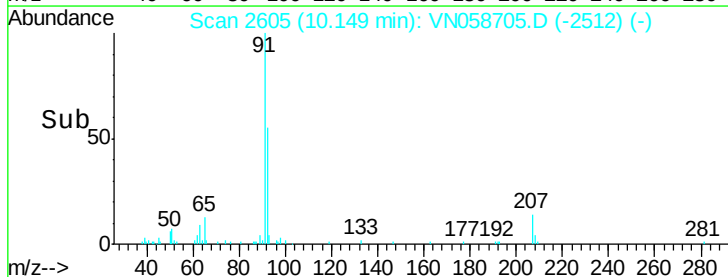
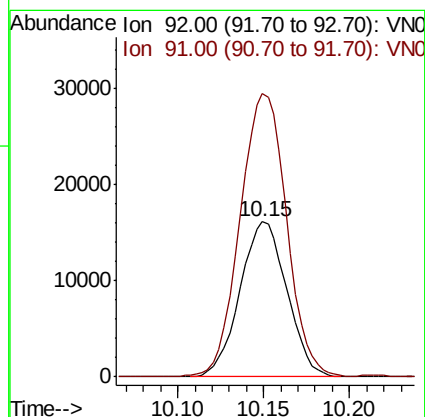
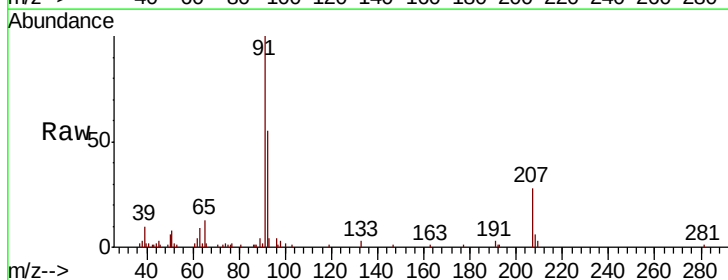
Acq: 11 Oct 2019 15:58

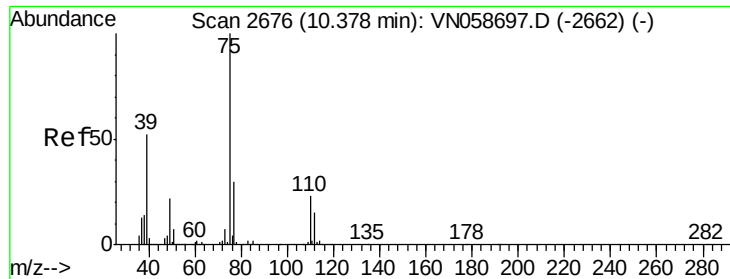
Tgt Ion: 92 Resp: 30600

Ion Ratio Lower Upper

92 100

91 180.9 139.1 208.7





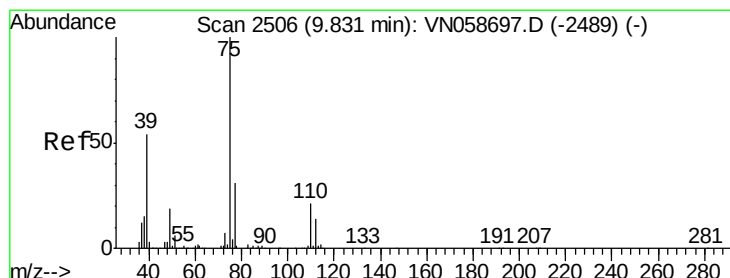
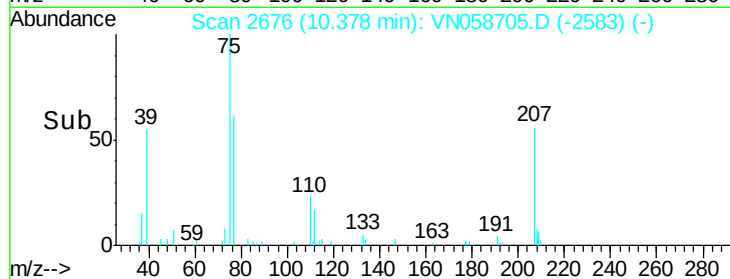
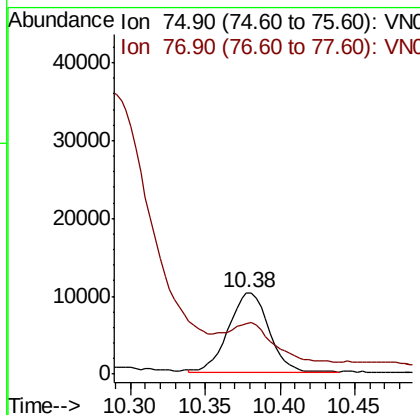
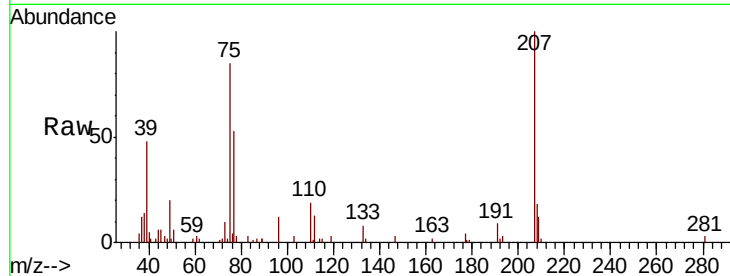
#53
t-1,3-Dichloropropene
Concen: 2.373 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 75 Resp: 18978
Ion Ratio Lower Upper
75 100
77 49.1 26.2 39.4#

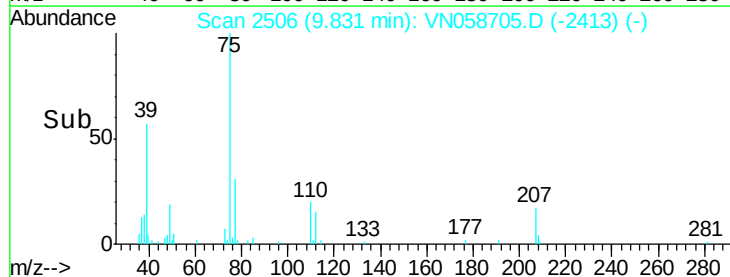
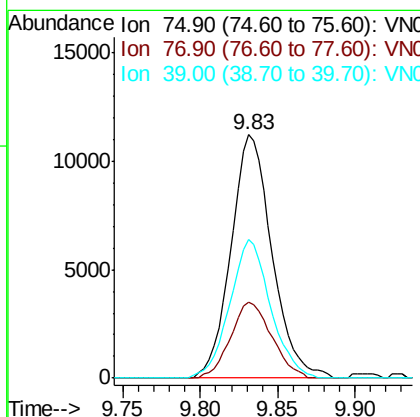
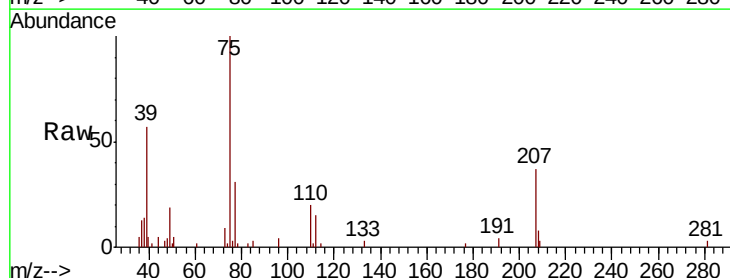
Manual Integrations
APPROVED

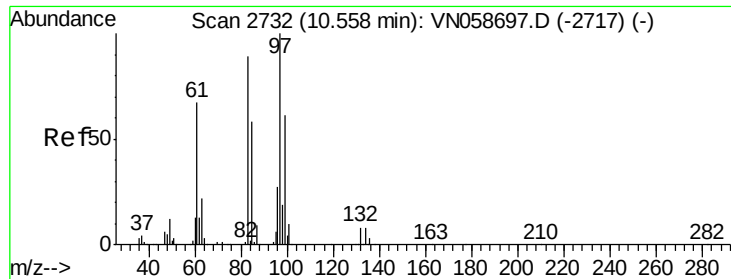
MMDadoda
10/16/2019 12:48:35 AM



#54
cis-1,3-Dichloropropene
Concen: 2.435 ug/l
RT: 9.83 min Scan# 2506
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion: 75 Resp: 20676
Ion Ratio Lower Upper
75 100
77 31.2 24.4 36.6
39 56.9 43.1 64.7





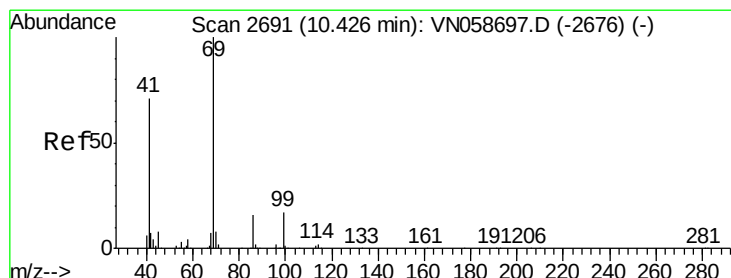
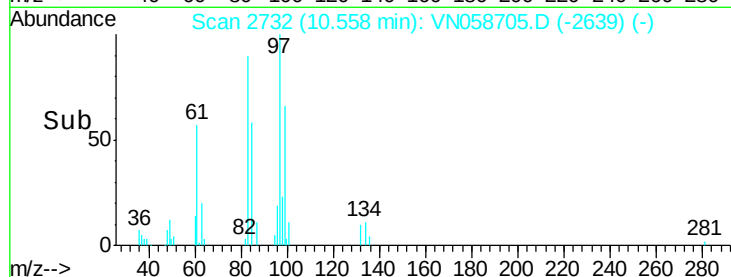
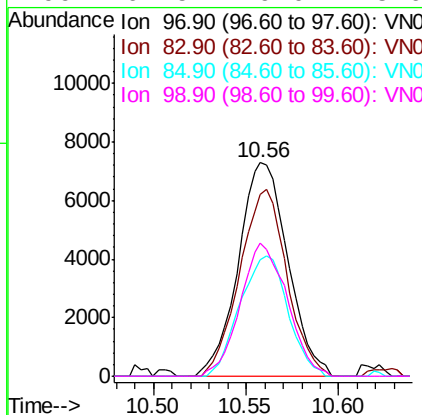
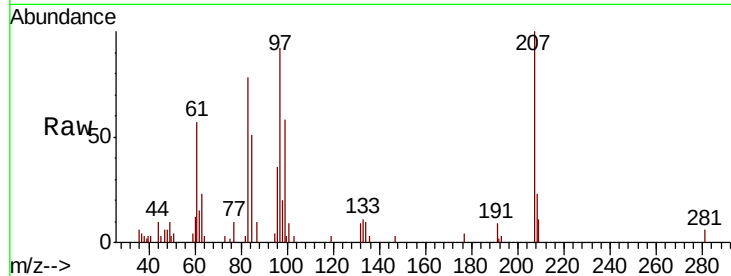
#55
 1,1,2-Trichloroethane
 Concen: 2.690 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN058705.D
 Acq: 11 Oct 2019 15:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion:	97	Resp:	13585
Ion	Ratio	Lower	Upper
97	100		
83	85.0	71.2	106.8
85	54.8	46.7	70.1
99	62.5	49.0	73.6

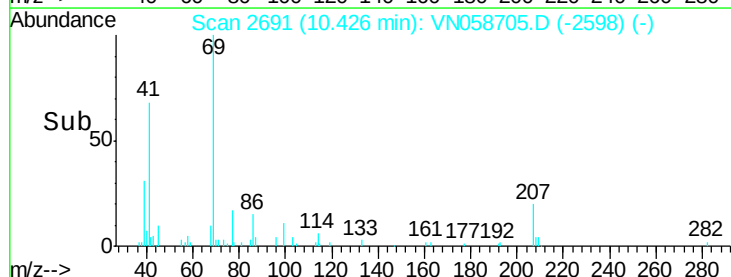
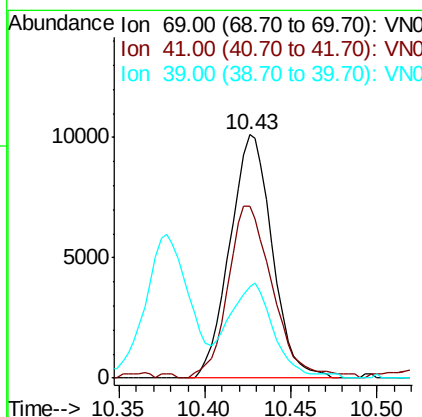
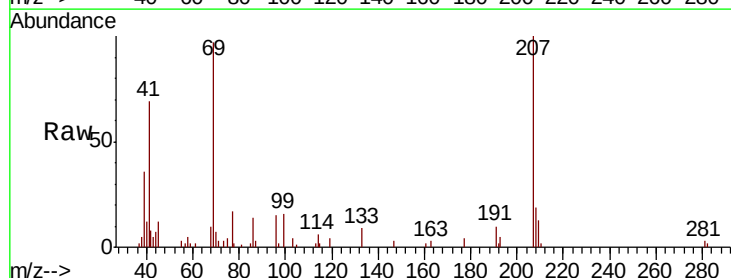
Manual Integrations
 APPROVED

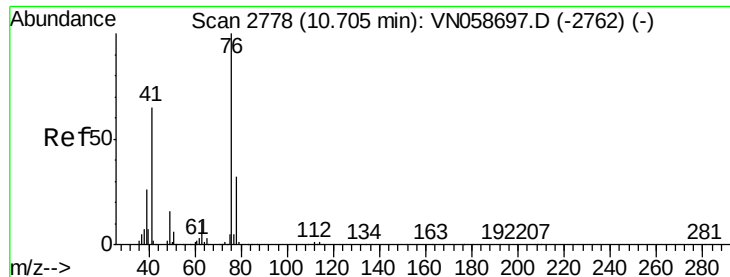
MMDadoda
 10/16/2019 12:48:35 AM



#56
 Ethyl methacrylate
 Concen: 2.343 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN058705.D
 Acq: 11 Oct 2019 15:58

Tgt Ion:	69	Resp:	17292
Ion	Ratio	Lower	Upper
69	100		
41	75.1	56.8	85.2
39	38.5	32.5	48.7





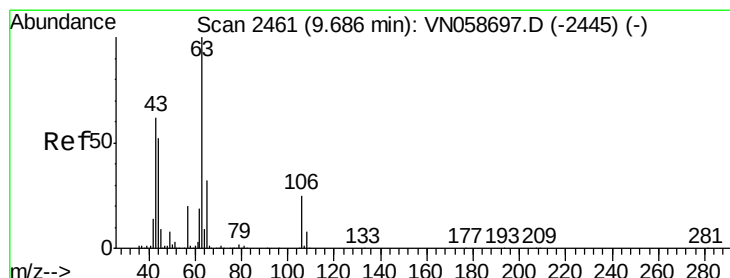
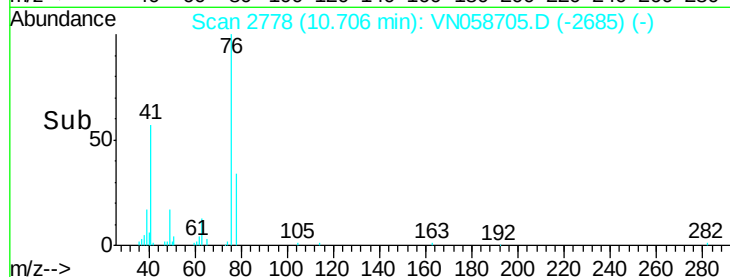
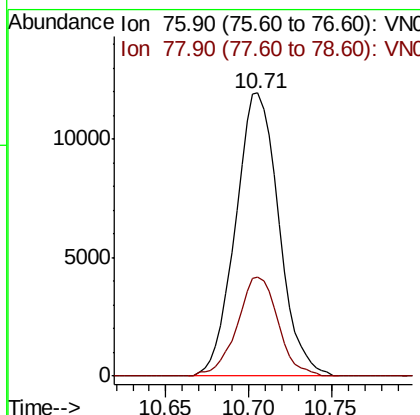
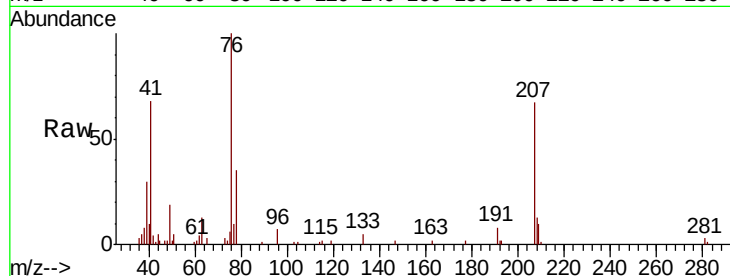
#57
 1,3-Dichloropropane
 Concen: 2.531 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN058705.D
 Acq: 11 Oct 2019 15:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.9	38.9

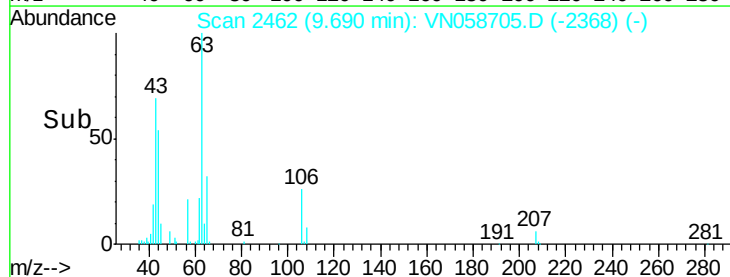
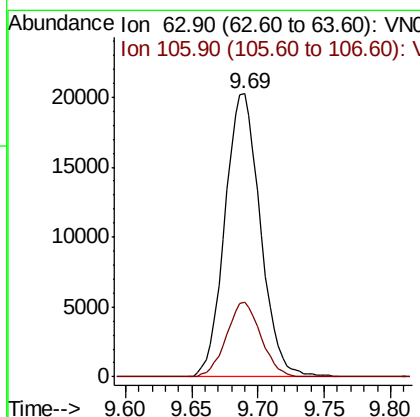
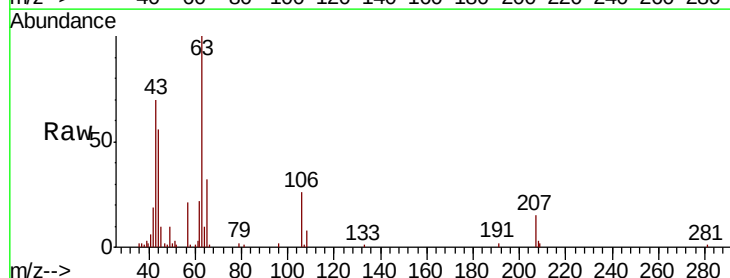
Manual Integrations
 APPROVED

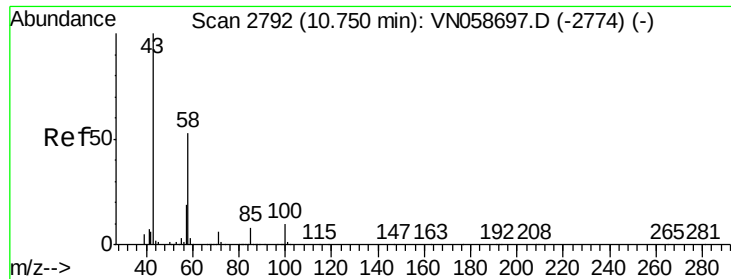
MMDadoda
 10/16/2019 12:48:35 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 10.596 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN058705.D
 Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
63	100		
106	25.6	20.0	30.0





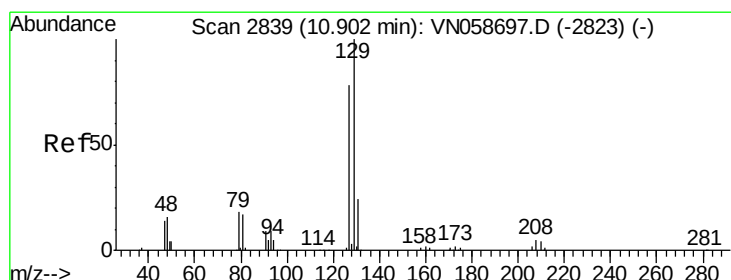
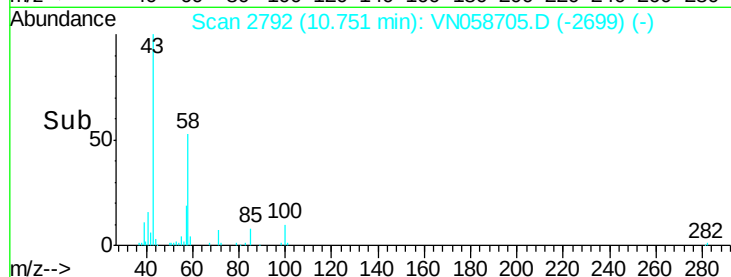
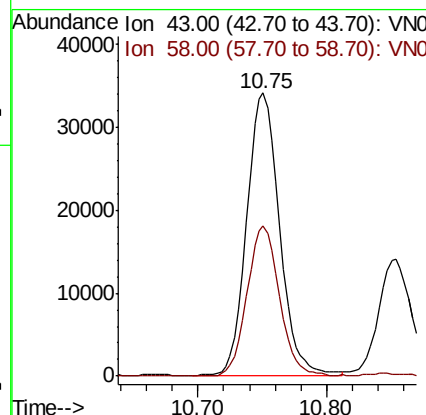
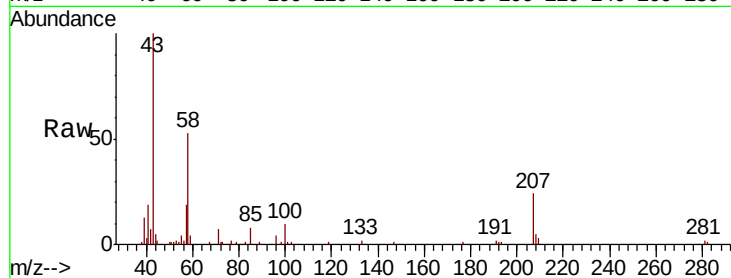
#59
2-Hexanone
Concen: 11.596 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 60916
Ion Ratio Lower Upper
43 100
58 52.0 26.1 78.3

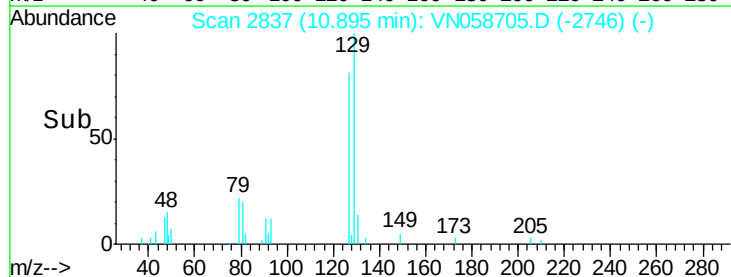
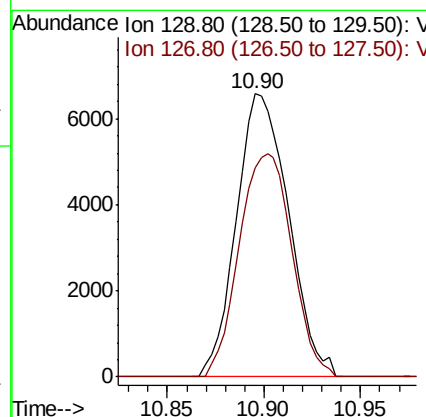
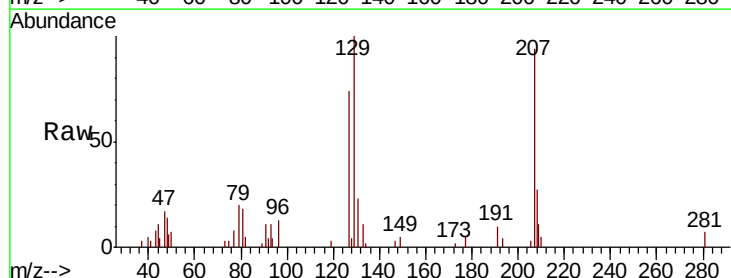
Manual Integrations
APPROVED

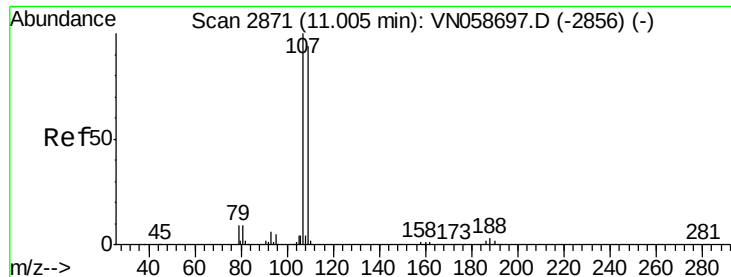
MMDadoda
10/16/2019 12:48:35 AM



#60
Dibromochloromethane
Concen: 2.370 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. -0.01 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion: 129 Resp: 12346
Ion Ratio Lower Upper
129 100
127 79.5 38.5 115.3





#61

1,2-Dibromoethane

Concen: 2.369 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 107 Resp: 11989

Ion Ratio Lower Upper

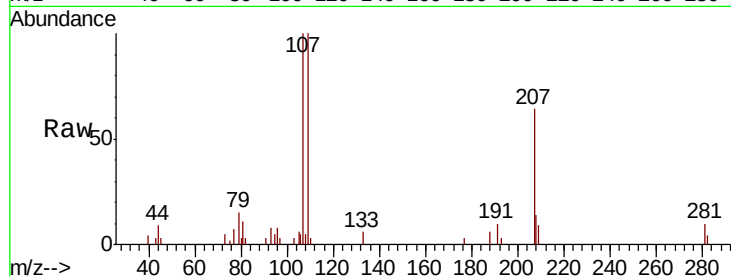
107 100

109 98.1 75.4 113.0

Manual Integrations
APPROVED

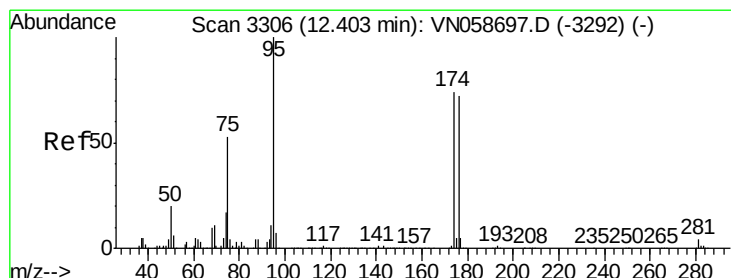
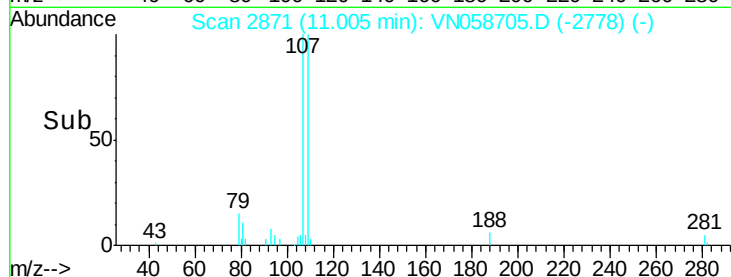
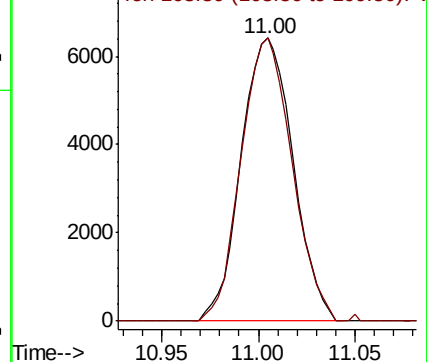
MMDadoda

10/16/2019 12:48:35 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 45.268 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

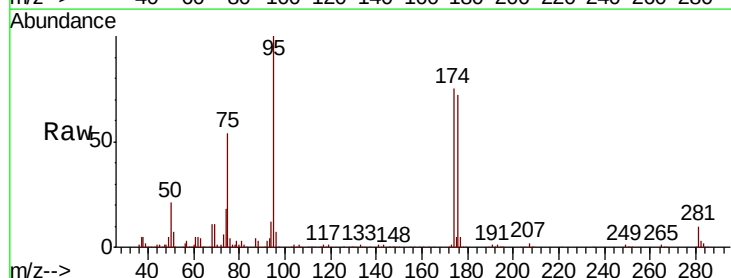
Tgt Ion: 95 Resp: 294080

Ion Ratio Lower Upper

95 100

174 75.6 0.0 150.4

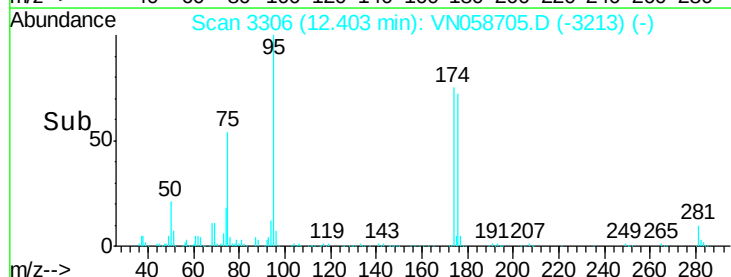
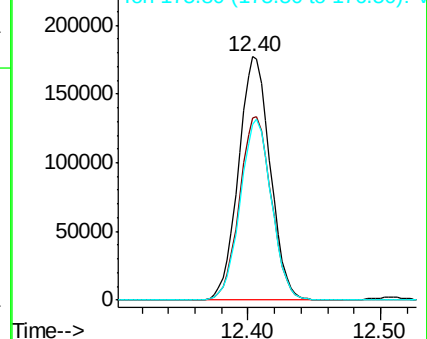
176 73.5 0.0 146.8

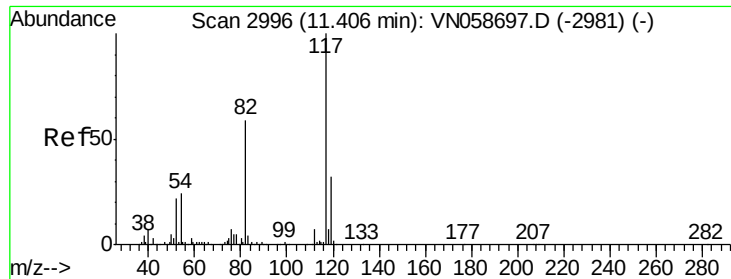


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





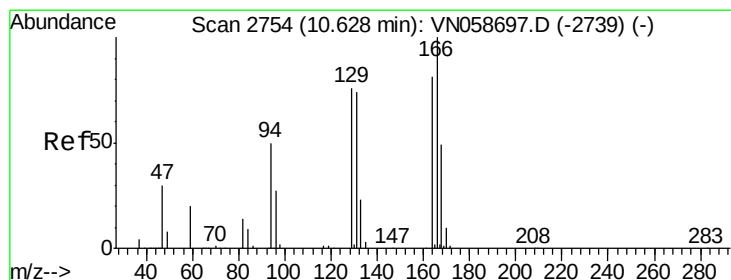
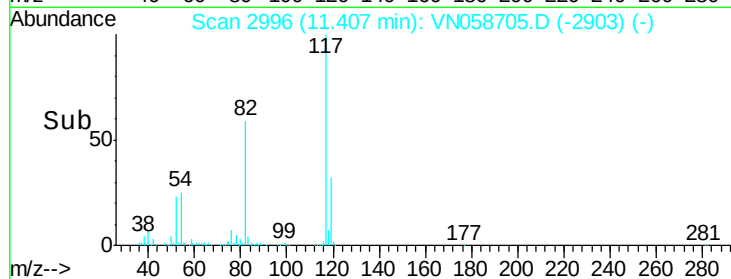
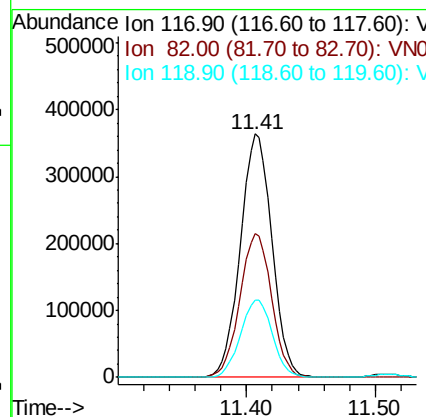
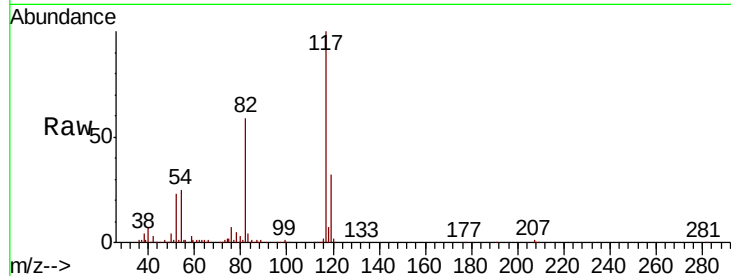
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	619168		
82	58.9		47.0	70.4
119	31.9		25.4	38.2

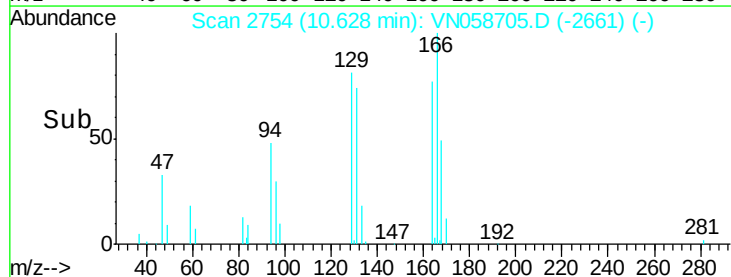
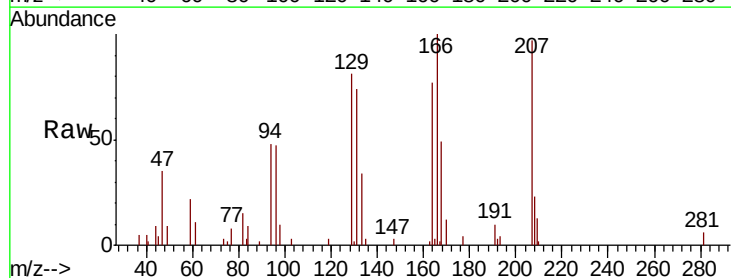
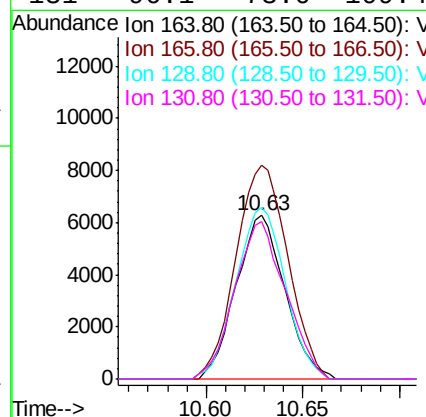
Manual Integrations
APPROVED

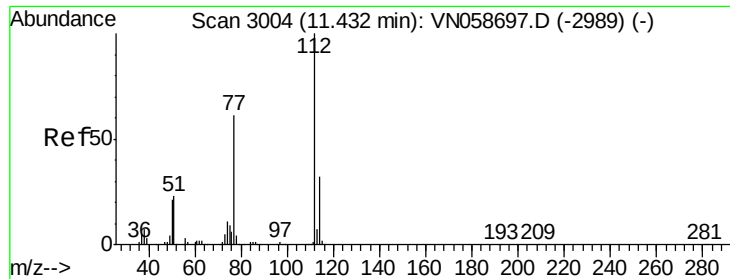
MMDadoda
10/16/2019 12:48:35 AM



#64
Tetrachloroethene
Concen: 2.540 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	11004		
166	130.5		99.3	148.9
129	105.0		75.2	112.8
131	96.1		73.0	109.4





#65

Chlorobenzene

Concen: 2.627 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:112 Resp: 33035

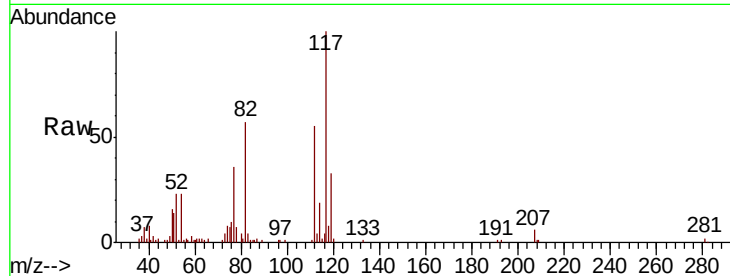
Ion Ratio Lower Upper

112 100

114 33.8 25.2 37.8

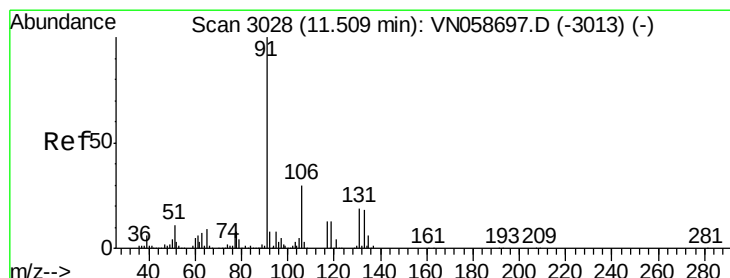
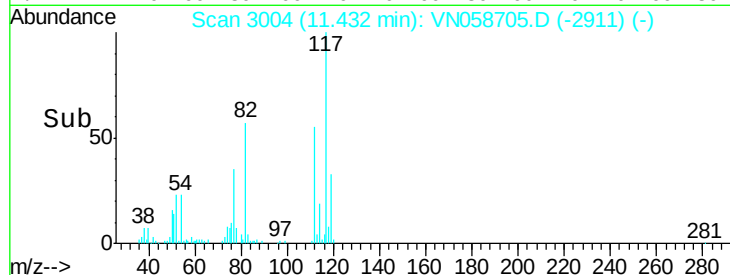
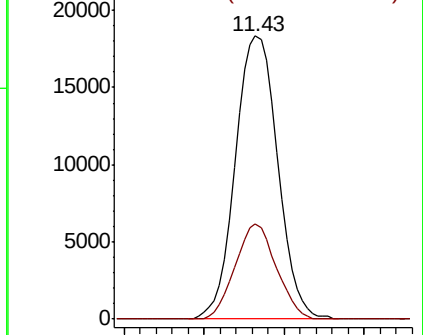
Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:35 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.450 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

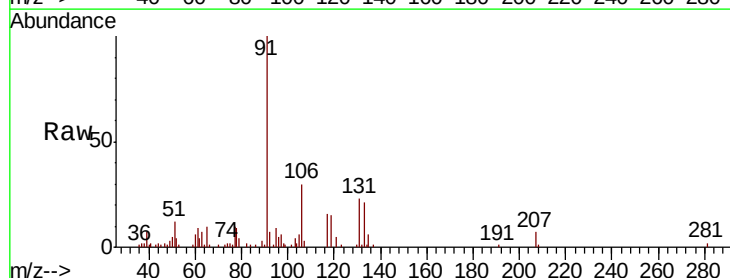
Tgt Ion:131 Resp: 11390

Ion Ratio Lower Upper

131 100

133 99.9 47.6 142.9

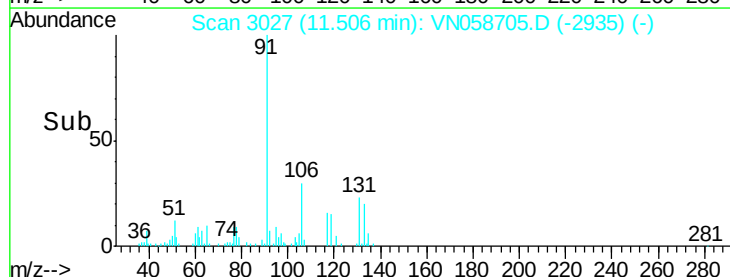
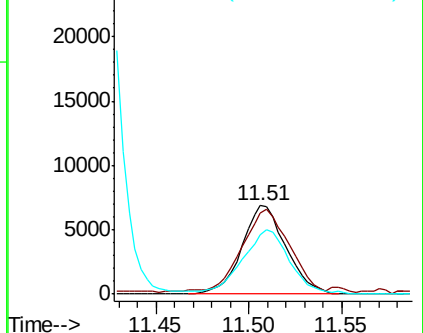
119 78.2 33.0 98.9

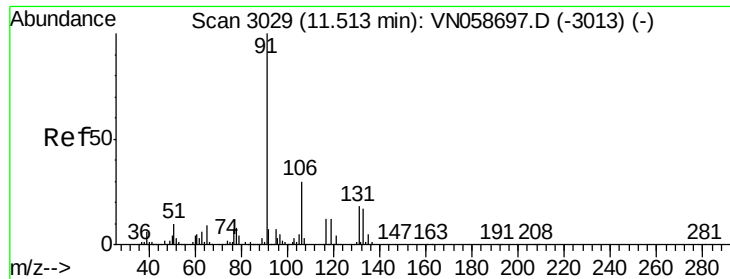


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 2.523 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 56554

Ion Ratio Lower Upper

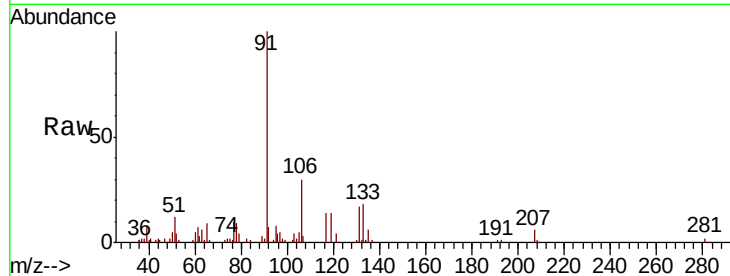
91 100

106 30.0 24.1 36.1

Manual Integrations
APPROVED

MMDadoda

10/16/2019 12:48:35 AM



Abundance Ion 91.00 (90.70 to 91.70): VN058705.D (-2936) (-)

Ion 106.00 (105.70 to 106.70): VN058705.D (-2936) (-)

11.51

40000

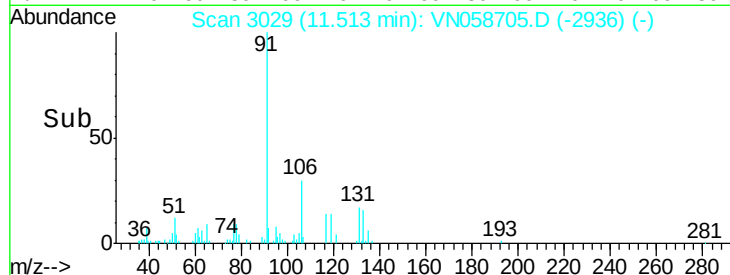
30000

20000

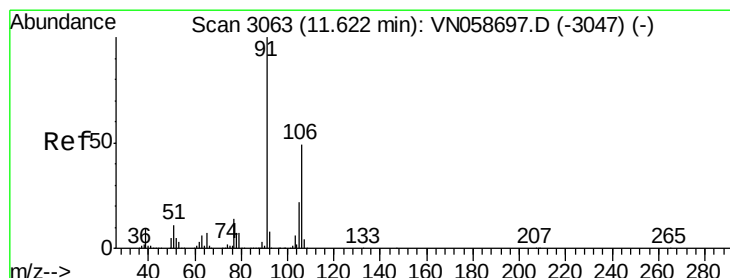
10000

0

Time-->



Time-->



#68

m/p-Xylenes

Concen: 4.924 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN058705.D

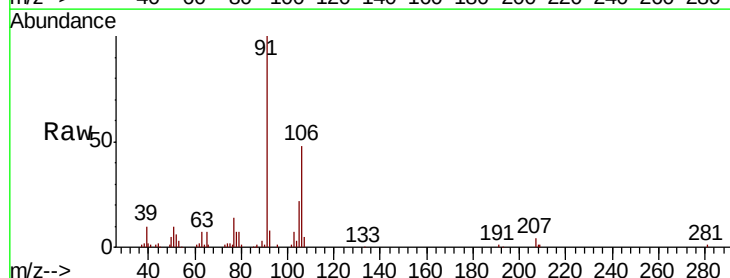
Acq: 11 Oct 2019 15:58

Tgt Ion: 106 Resp: 41420

Ion Ratio Lower Upper

106 100

91 210.8 165.7 248.5



Abundance Ion 106.00 (105.70 to 106.70): VN058705.D (-2970) (-)

Ion 91.00 (90.70 to 91.70): VN058705.D (-2970) (-)

11.62

50000

40000

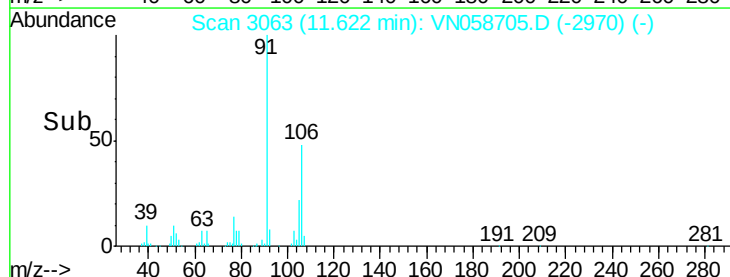
30000

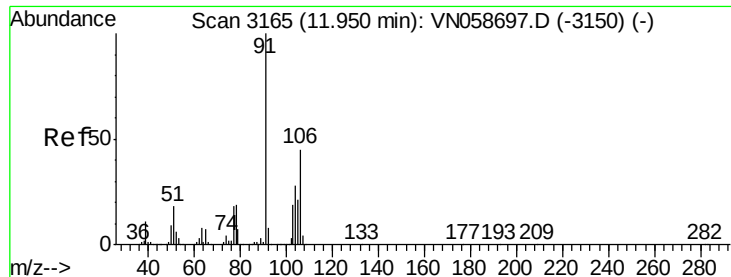
20000

10000

0

Time-->





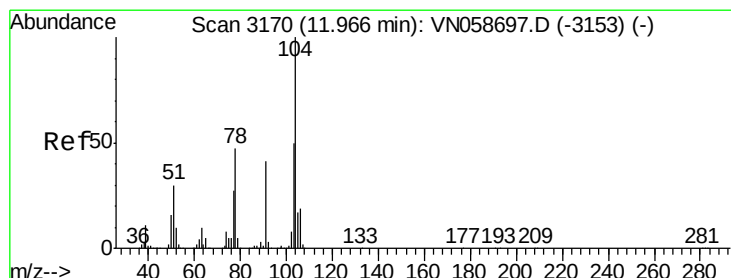
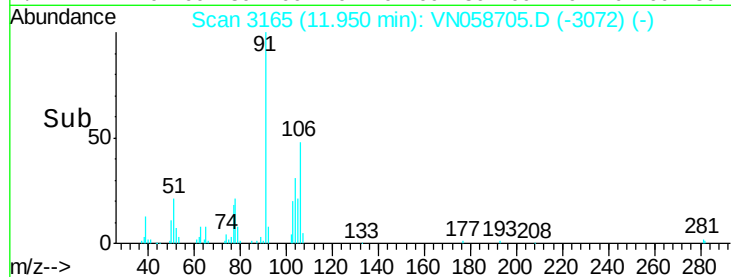
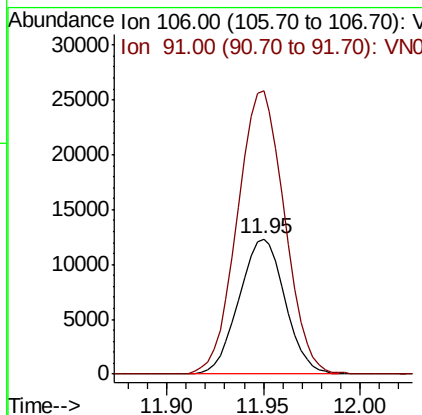
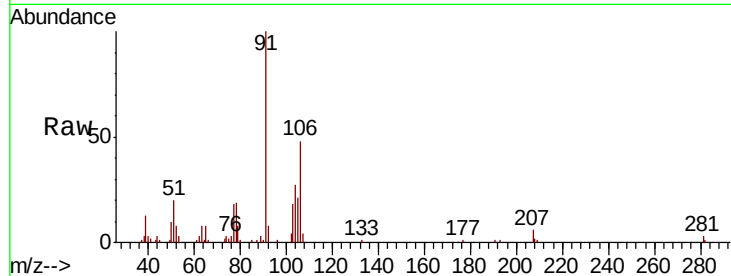
#69
o-Xylene
Concen: 2.503 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	215.2	110.9	332.9	

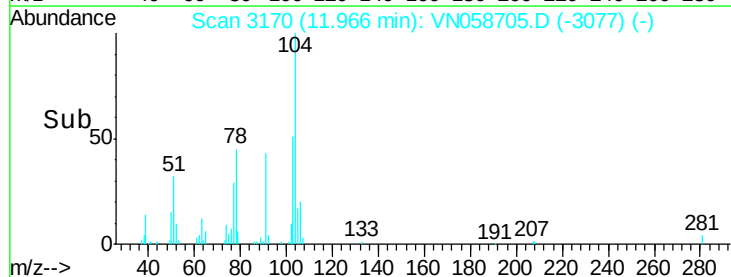
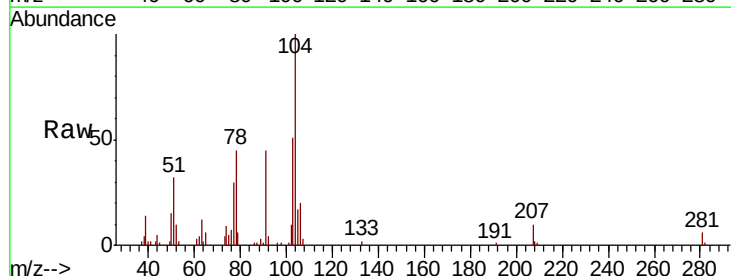
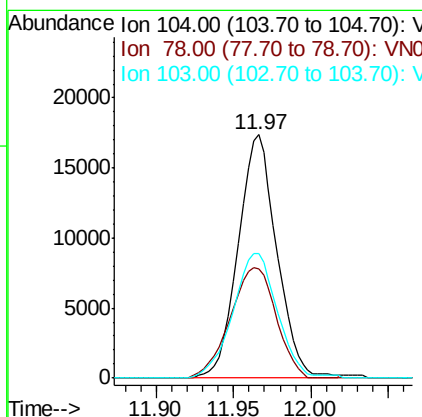
Manual Integrations
APPROVED

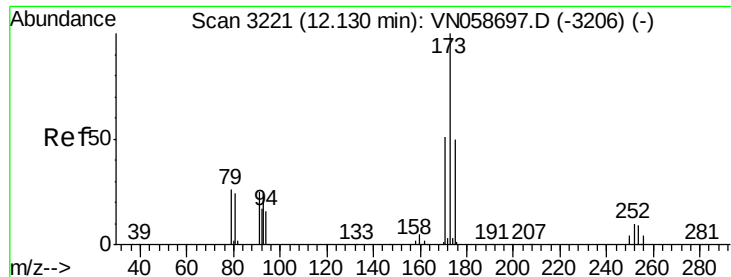
MMDadoda
10/16/2019 12:48:35 AM



#70
Styrene
Concen: 2.259 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	53.9	42.2	63.2	
103	58.8	43.7	65.5	





#71

Bromoform

Concen: 2.359 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:173 Resp: 8038

Ion Ratio Lower Upper

173 100

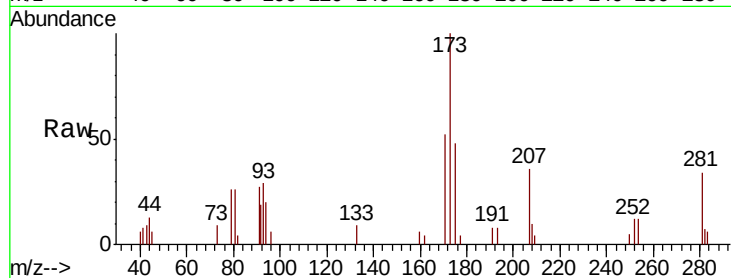
175 47.1 24.6 73.8

254 0.0 0.1 0.1#

Manual Integrations
APPROVED

MMDadoda

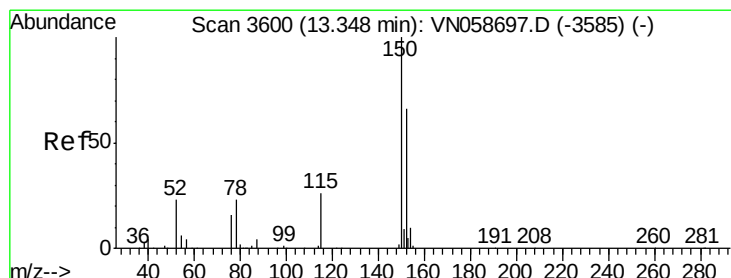
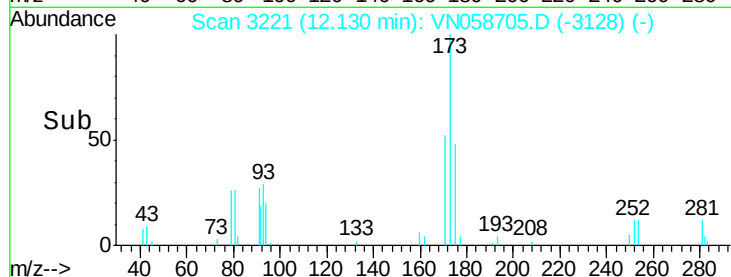
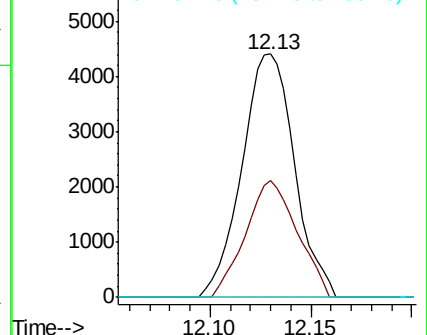
10/16/2019 12:48:35 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

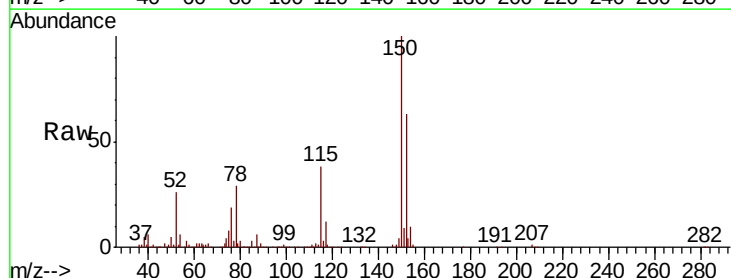
Tgt Ion:152 Resp: 273308

Ion Ratio Lower Upper

152 100

115 60.6 30.4 91.2

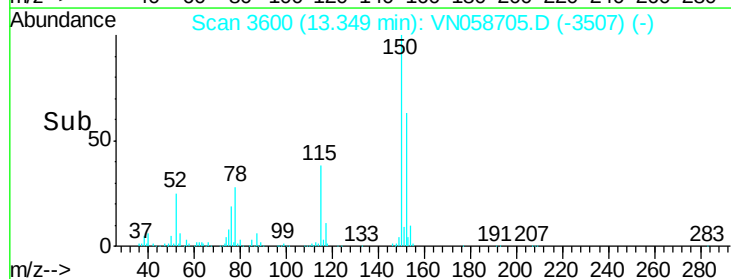
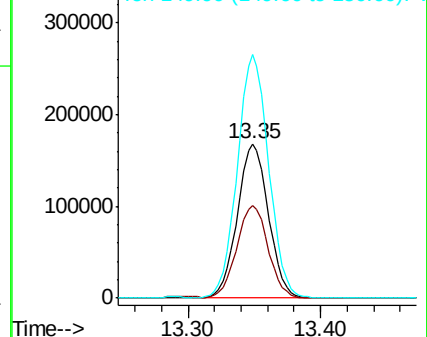
150 158.3 0.0 345.4

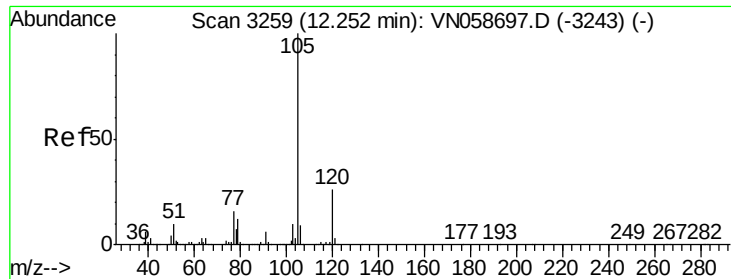


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





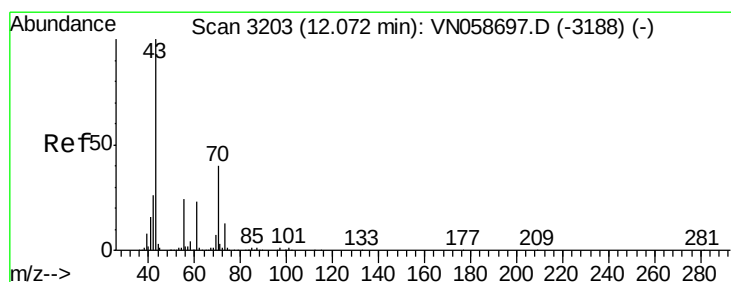
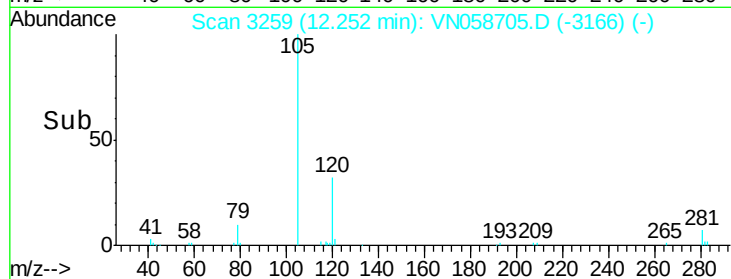
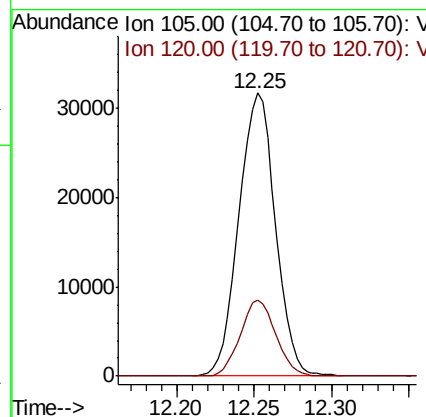
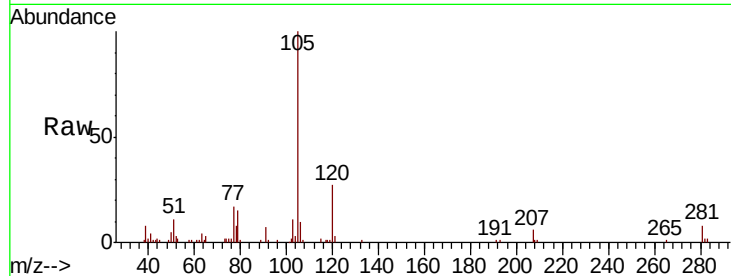
#73
Isopropylbenzene
Concen: 2.631 ug/l
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.1	39.1

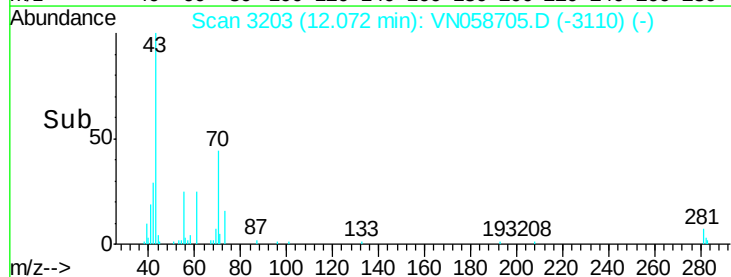
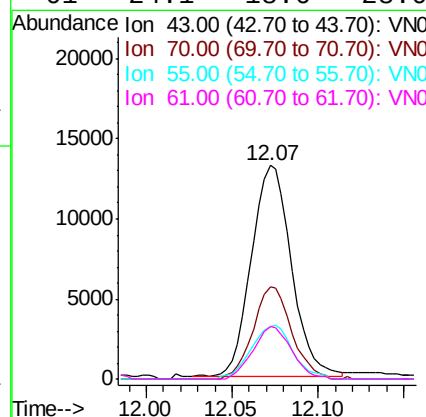
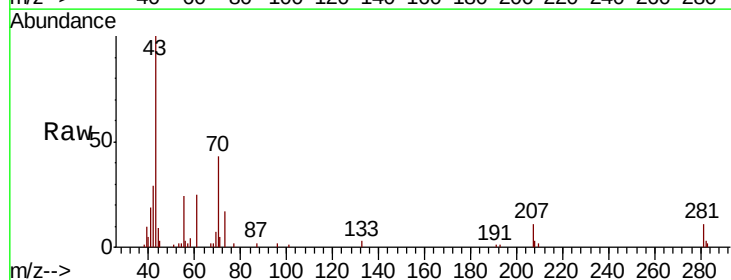
Manual Integrations
APPROVED

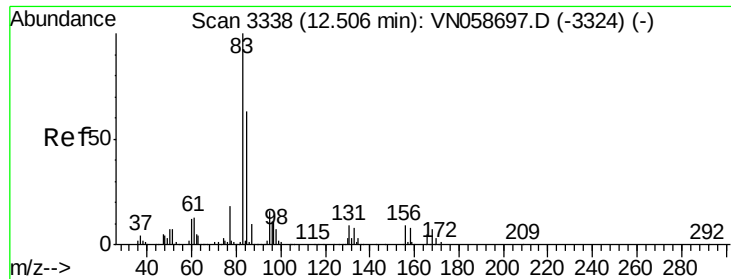
MMDadoda
10/16/2019 12:48:35 AM



#74
N-ethyl acetate
Concen: 2.394 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
43	100		
70	41.9	32.2	48.4
55	26.4	19.6	29.4
61	24.1	18.6	28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 2.800 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

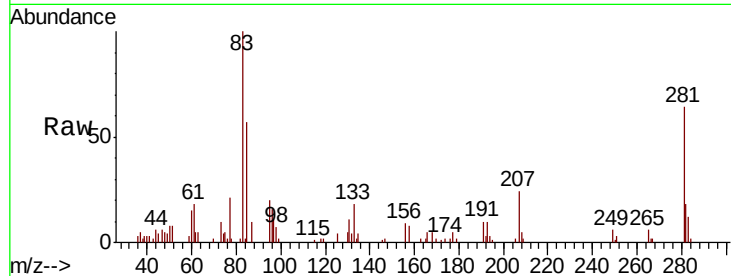
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	83	Resp:	18260
Ion Ratio	Lower	Upper	
83	100		
131	11.5	4.8	14.4
85	63.8	31.9	95.5

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:35 AM

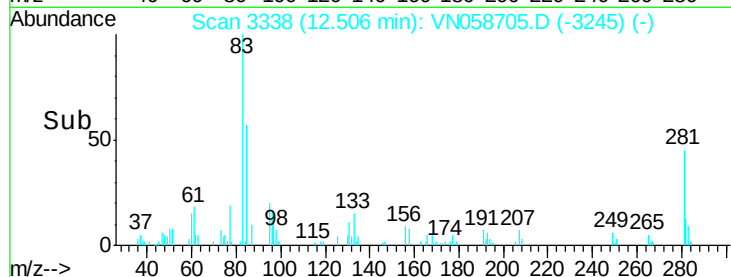


Abundance Ion 82.90 (82.60 to 83.60): VN058705.D (-3245) (-)

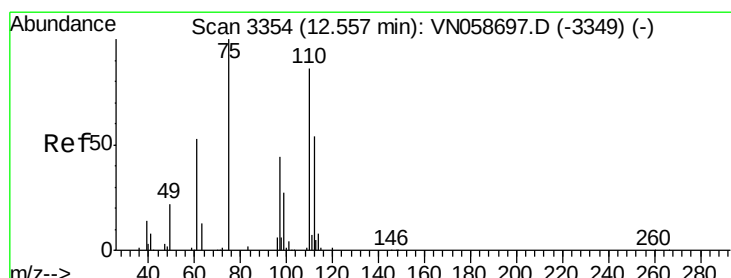
Ion 130.80 (130.50 to 131.50): VN058705.D (-3245) (-)

Ion 84.90 (84.60 to 85.60): VN058705.D (-3245) (-)

Time-->



Time-->



#76

1,2,3-Trichloropropane

Concen: 2.860 ug/l m

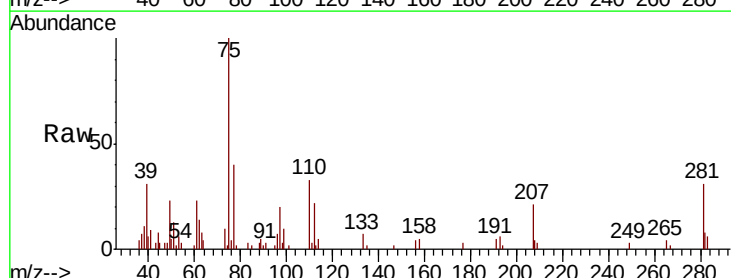
RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

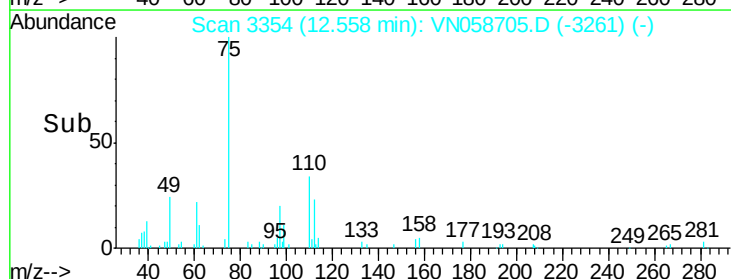
Tgt Ion:	75	Resp:	17150
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



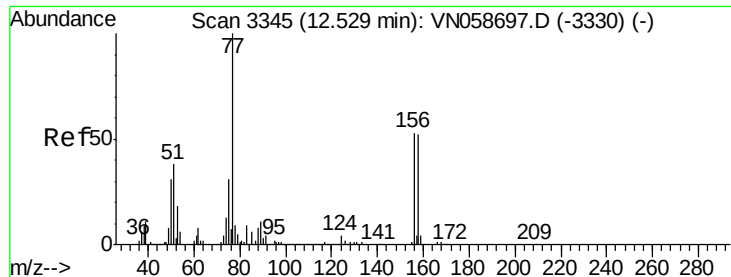
Abundance Ion 74.90 (74.60 to 75.60): VN058705.D (-3261) (-)

Ion 77.00 (76.70 to 77.70): VN058705.D (-3261) (-)

Time-->



Time-->



#77

Bromobenzene

Concen: 2.695 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:156 Resp: 12975

Ion Ratio Lower Upper

156 100

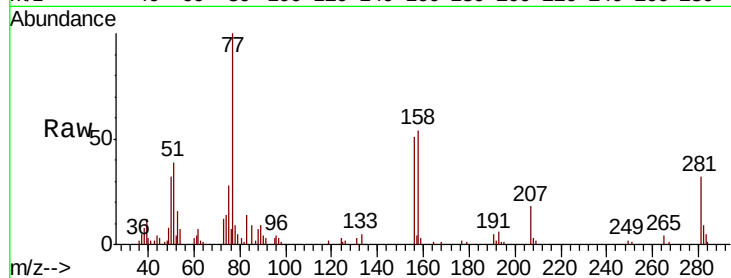
77 241.0 115.8 347.3

158 103.2 48.9 146.6

Manual Integrations
APPROVED

MMDadoda

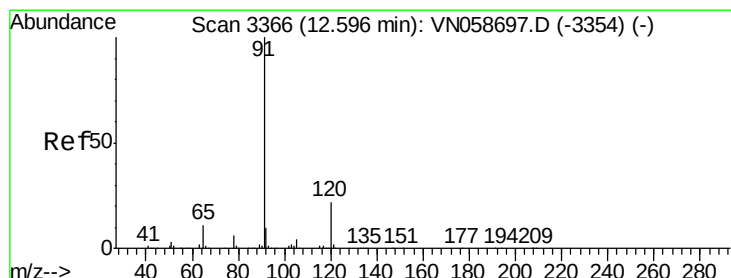
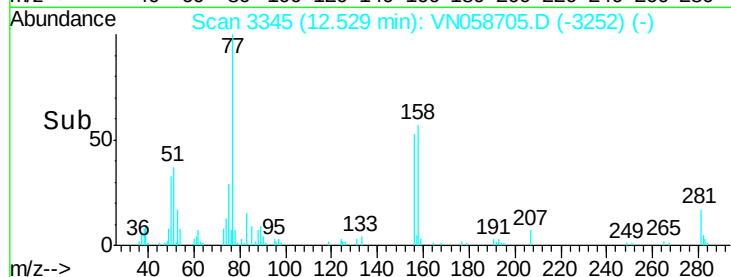
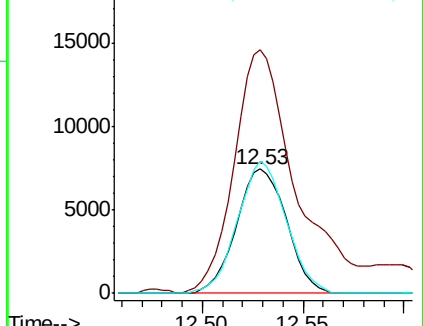
10/16/2019 12:48:35 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.653 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058705.D

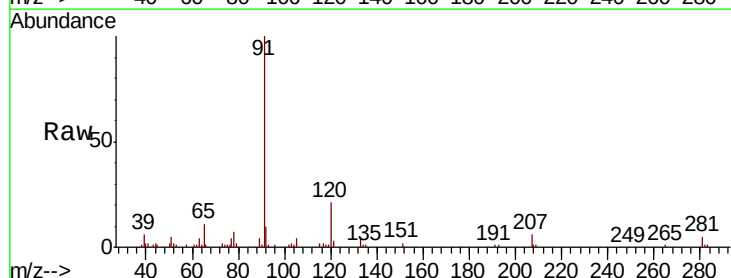
Acq: 11 Oct 2019 15:58

Tgt Ion: 91 Resp: 61194

Ion Ratio Lower Upper

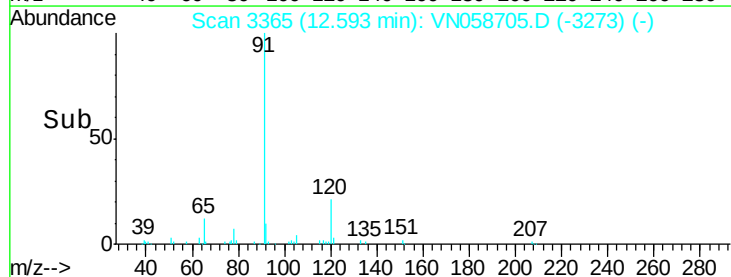
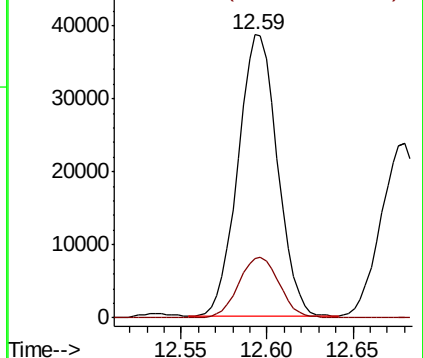
91 100

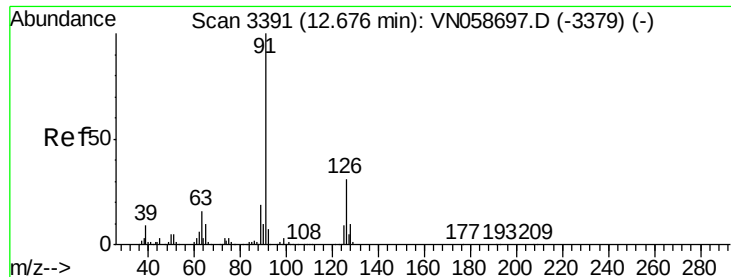
120 22.0 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





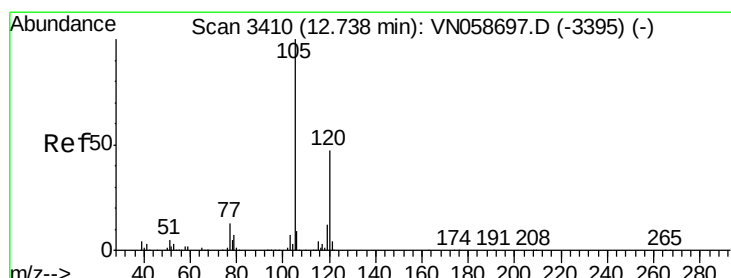
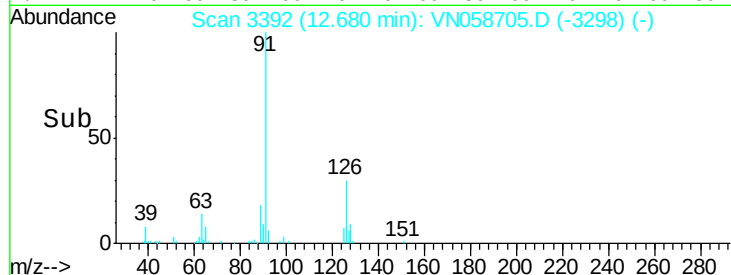
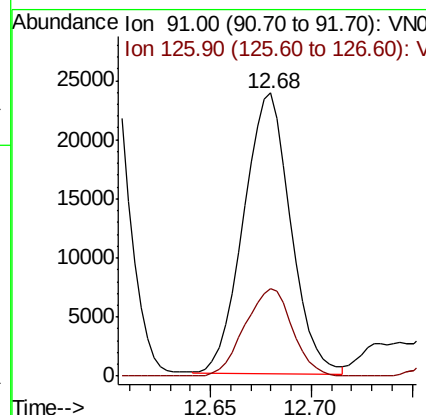
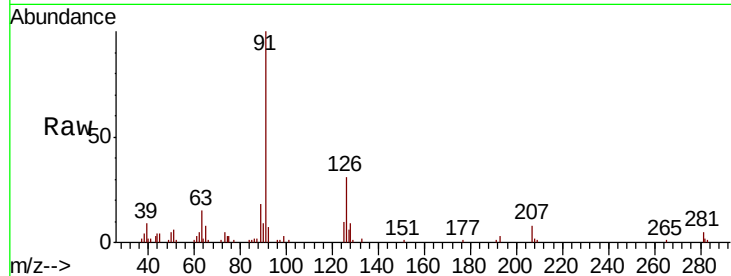
#79
2-Chlorotoluene
Concen: 2.723 ug/l
RT: 12.68 min Scan# 3392
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 38988
Ion Ratio Lower Upper
91 100
126 31.3 16.2 48.5

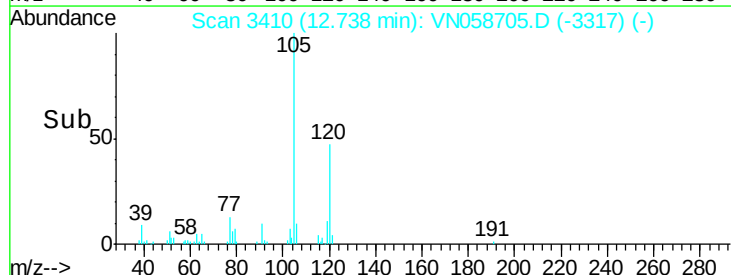
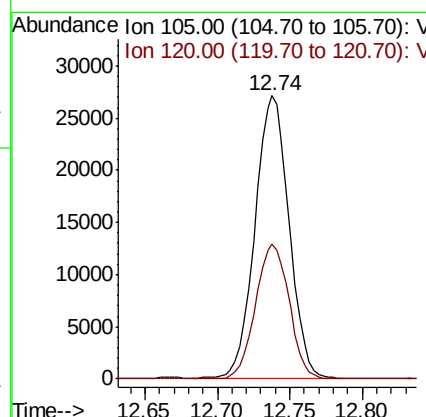
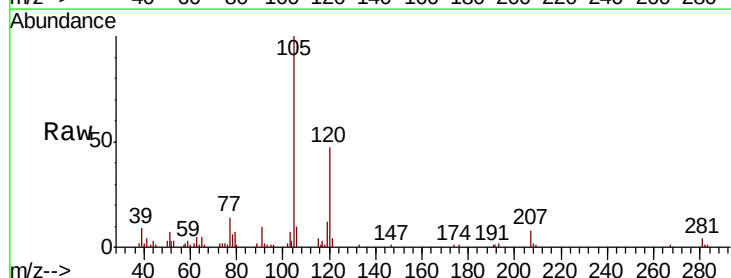
Manual Integrations
APPROVED

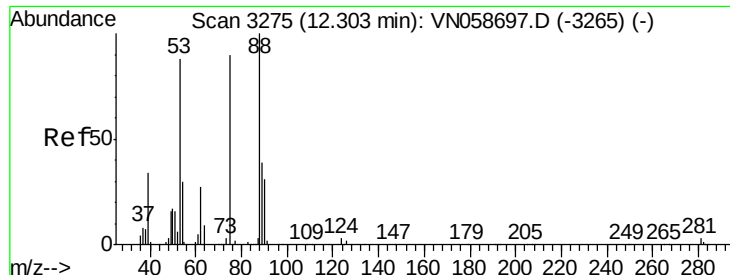
MMDadoda
10/16/2019 12:48:35 AM



#80
1,3,5-Trimethylbenzene
Concen: 2.635 ug/l
RT: 12.74 min Scan# 3410
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion: 105 Resp: 44534
Ion Ratio Lower Upper
105 100
120 46.6 23.4 70.2





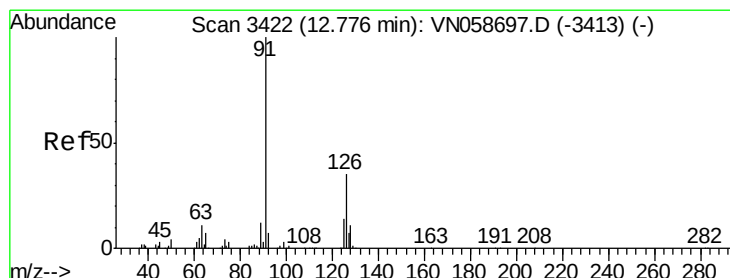
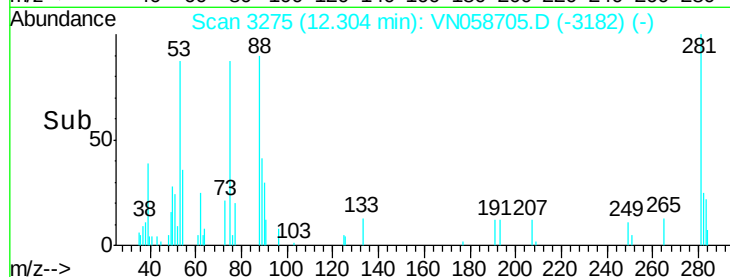
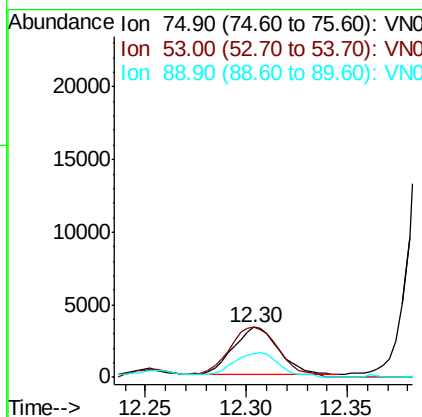
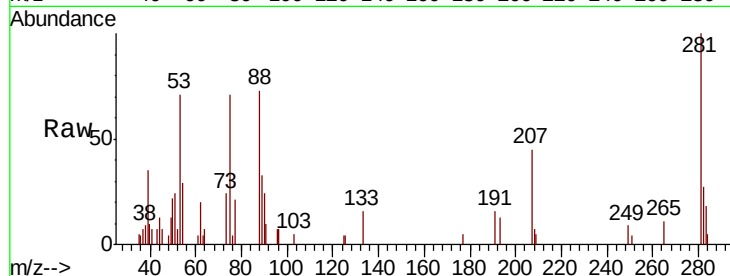
#81
trans-1,4-Dichloro-2-butene
Concen: 2.315 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	116.3	78.4	117.6
89	54.4	34.9	52.3

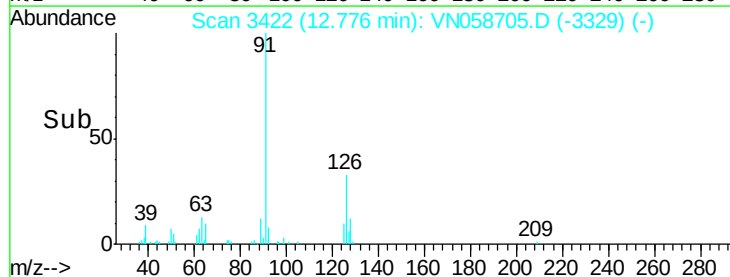
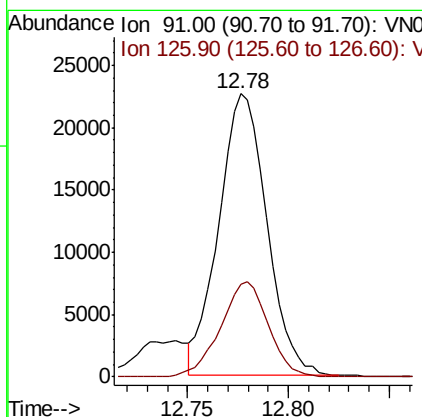
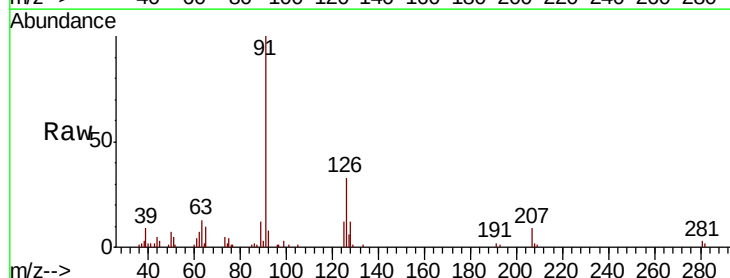
Manual Integrations
APPROVED

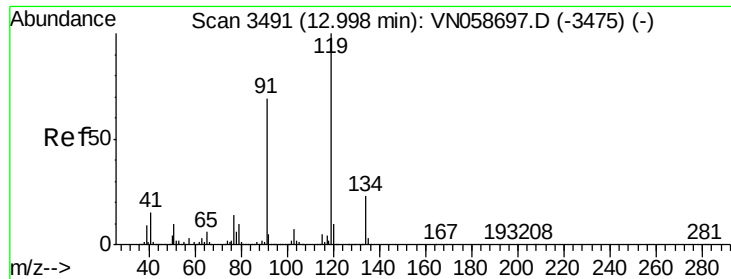
MMDadoda
10/16/2019 12:48:35 AM



#82
4-Chlorotoluene
Concen: 2.555 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.6	15.9	47.6





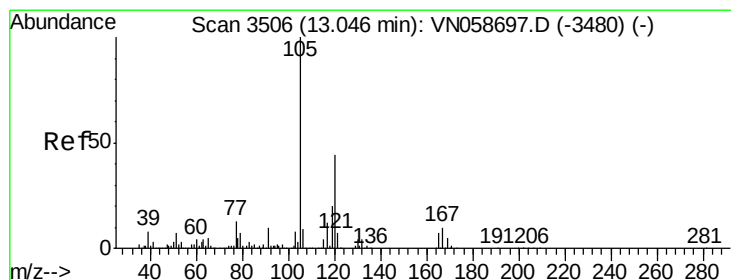
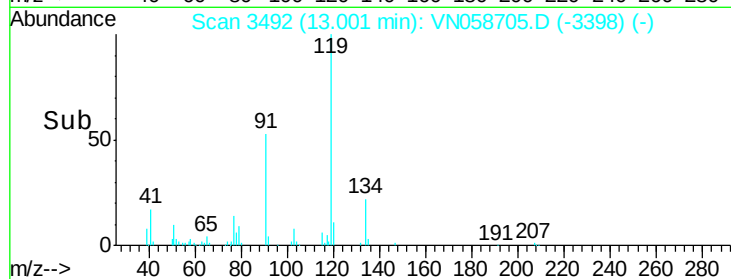
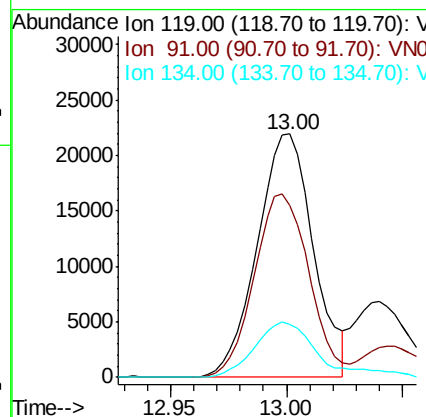
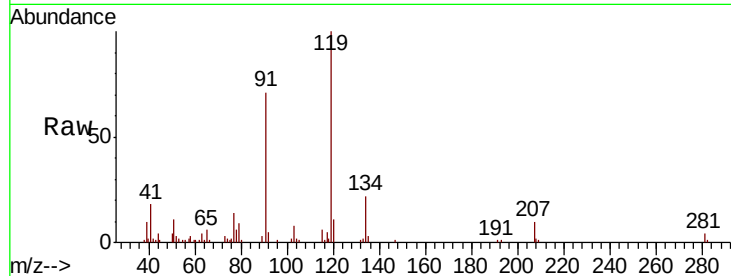
#83
tert-Butylbenzene
Concen: 2.558 ug/l
RT: 13.00 min Scan# 3492
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	74.0	33.8	101.3
134	25.8	12.6	37.6

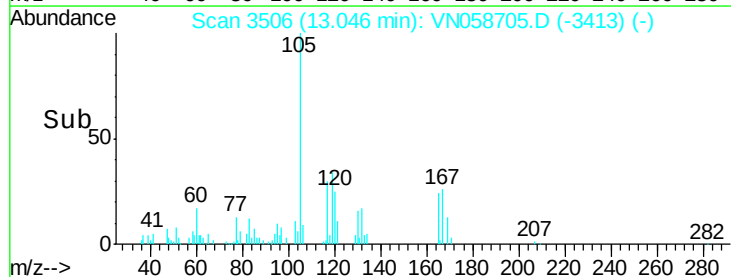
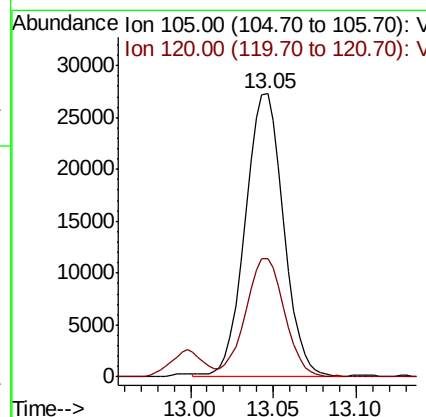
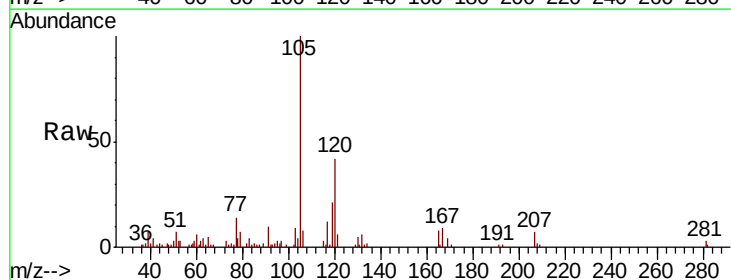
Manual Integrations
APPROVED

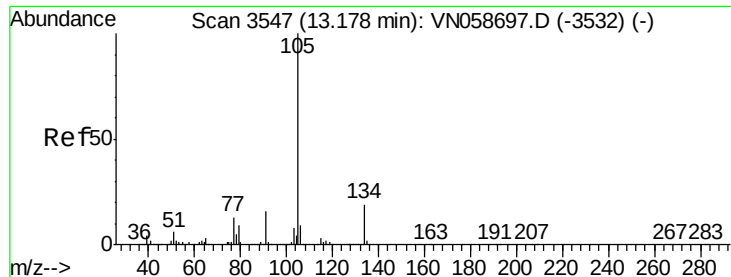
MMDadoda
10/16/2019 12:48:35 AM



#84
1,2,4-Trimethylbenzene
Concen: 2.623 ug/l
RT: 13.05 min Scan# 3506
Delta R.T. 0.00 min
Lab File: VN058705.D
Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.1	21.9	65.7





#85

sec-Butylbenzene

Concen: 2.655 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:105 Resp: 50642

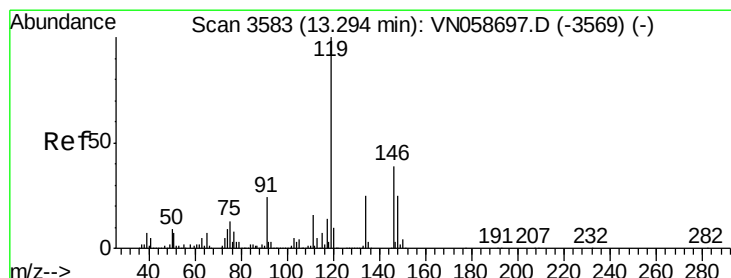
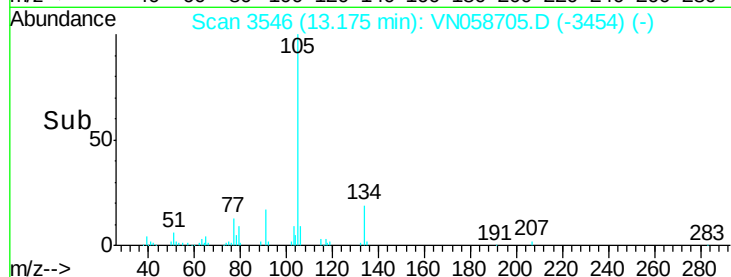
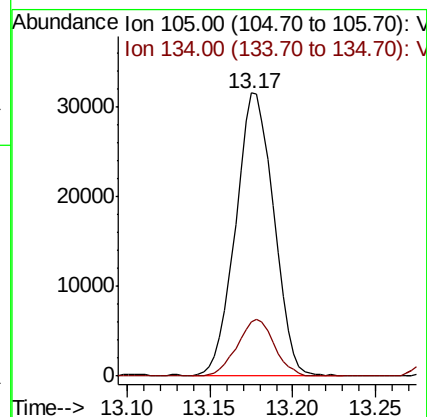
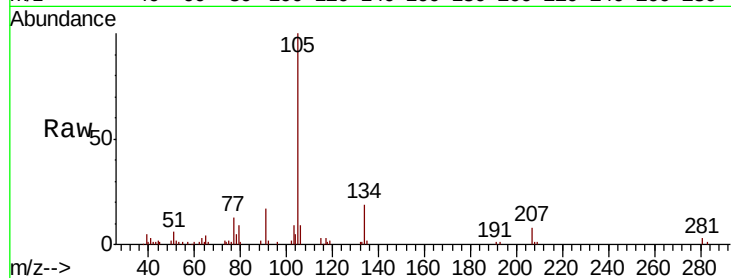
Ion Ratio Lower Upper

105 100

134 19.4 9.7 29.1

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:35 AM



#86

p-Isopropyltoluene

Concen: 2.492 ug/l

RT: 13.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

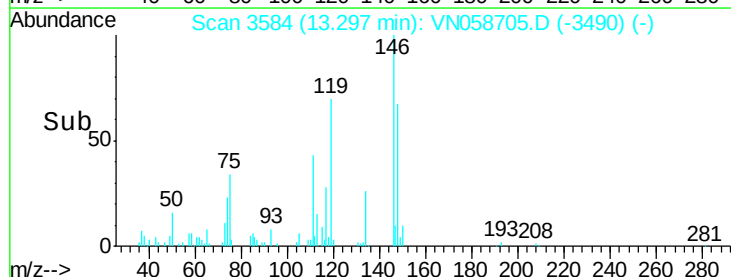
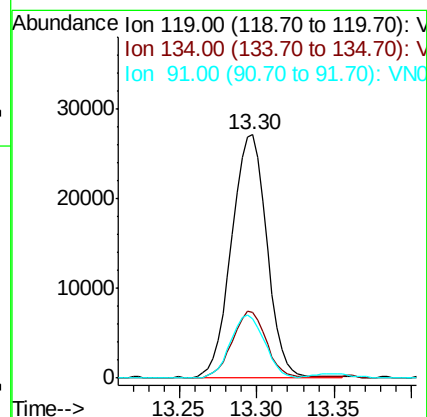
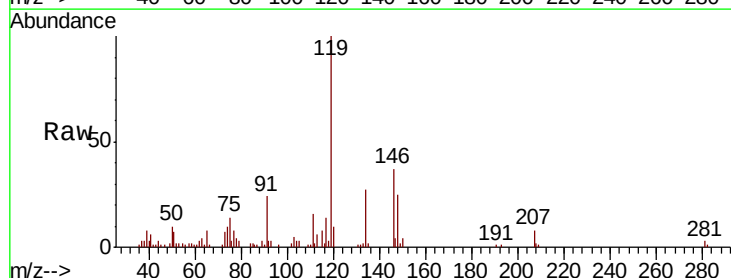
Tgt Ion:119 Resp: 43198

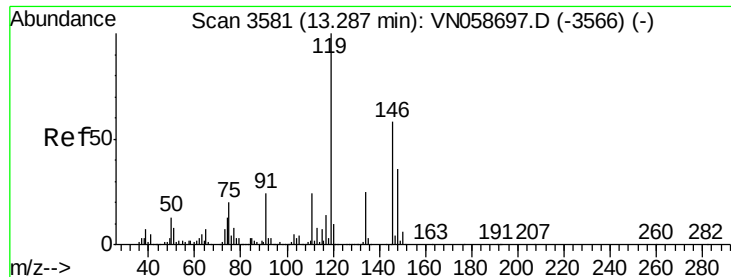
Ion Ratio Lower Upper

119 100

134 26.3 12.7 38.1

91 24.9 11.9 35.5





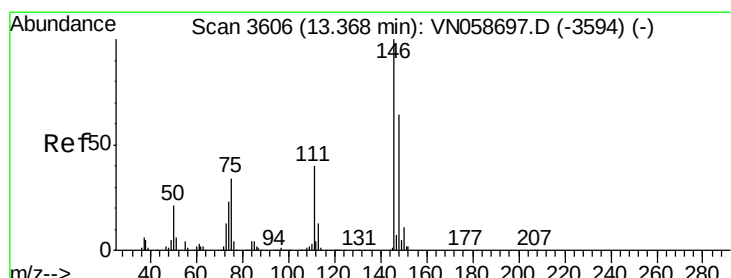
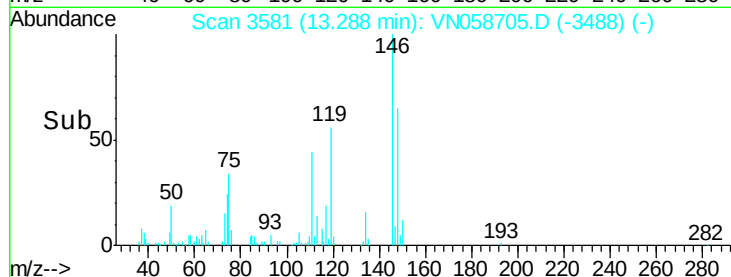
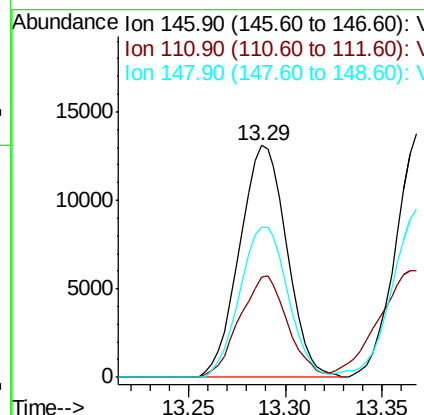
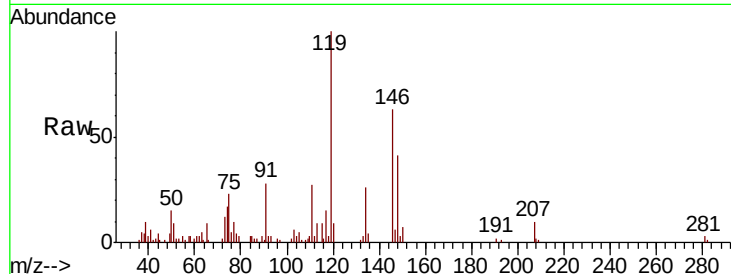
#87
 1,3-Dichlorobenzene
 Concen: 2.508 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN058705.D
 Acq: 11 Oct 2019 15:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.3	20.5	61.6
148	65.8	31.3	93.9

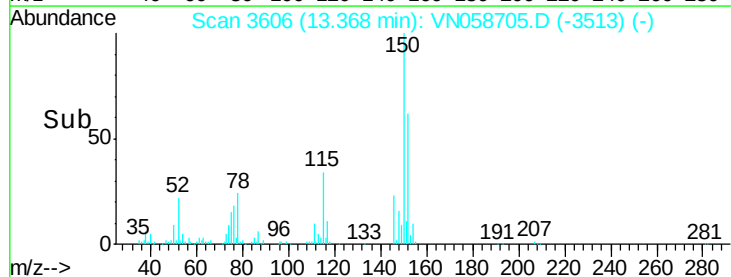
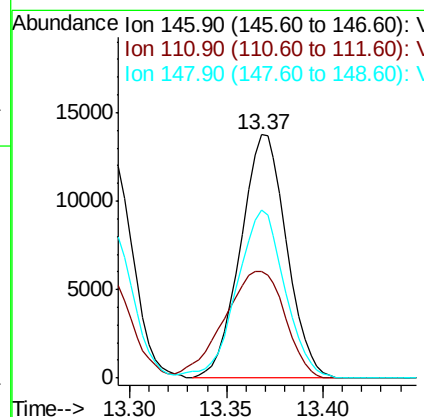
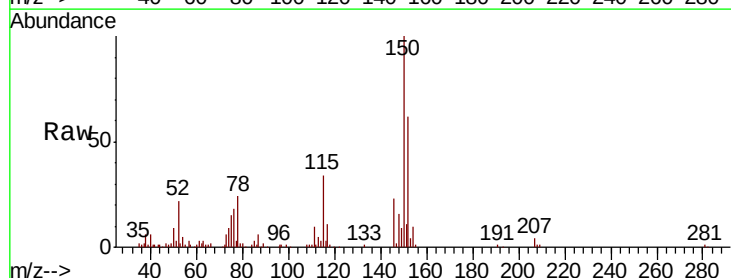
Manual Integrations
 APPROVED

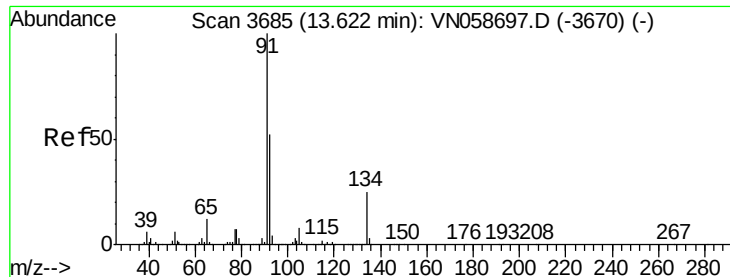
MMDadoda
 10/16/2019 12:48:35 AM



#88
 1,4-Dichlorobenzene
 Concen: 2.528 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN058705.D
 Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	58.0	20.1	60.2
148	71.9	31.9	95.7





#89

n-Butylbenzene

Concen: 2.402 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

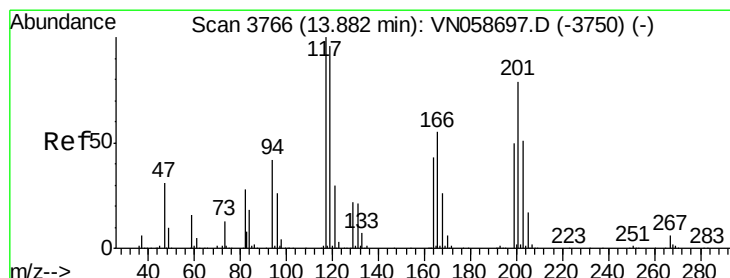
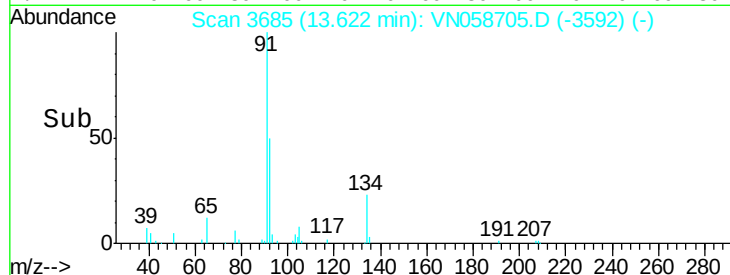
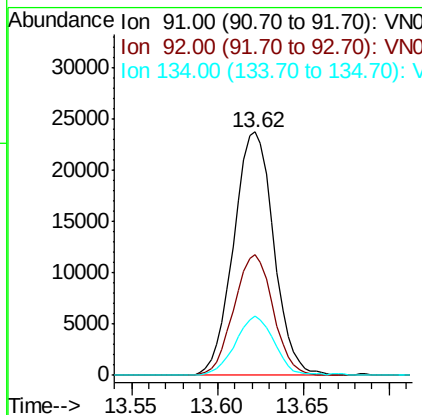
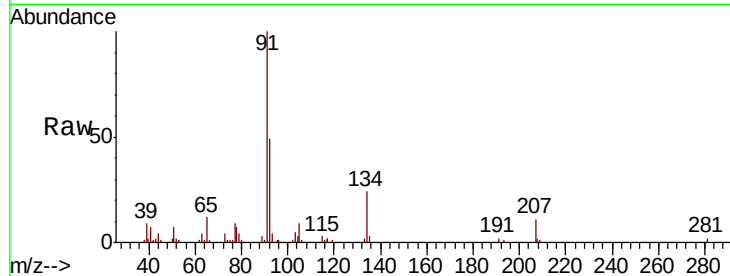
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	91	Resp:	38507
Ion Ratio	Lower	Upper	
91	100		
92	48.4	26.0	78.0
134	23.5	12.2	36.6

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:35 AM



#90

Hexachloroethane

Concen: 2.460 ug/l

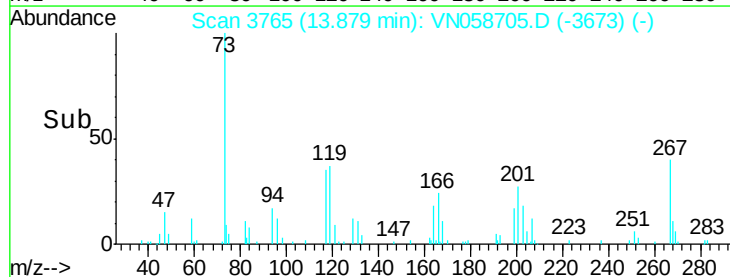
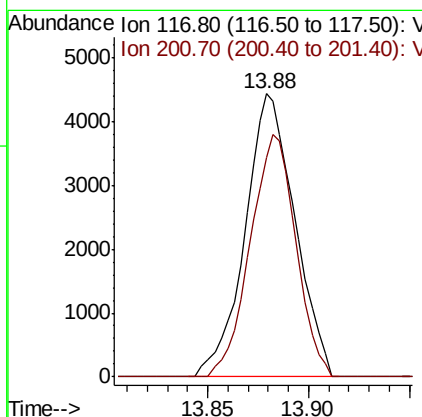
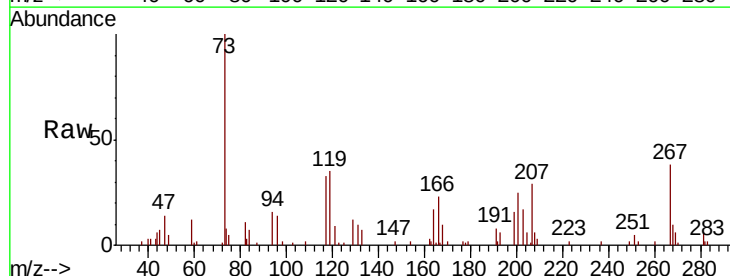
RT: 13.88 min Scan# 3765

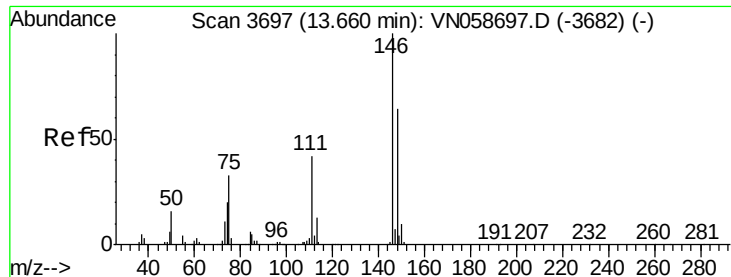
Delta R.T. -0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Tgt Ion:	117	Resp:	7630
Ion Ratio	Lower	Upper	
117	100		
201	78.5	39.6	118.7





#91

1,2-Dichlorobenzene

Concen: 2.632 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

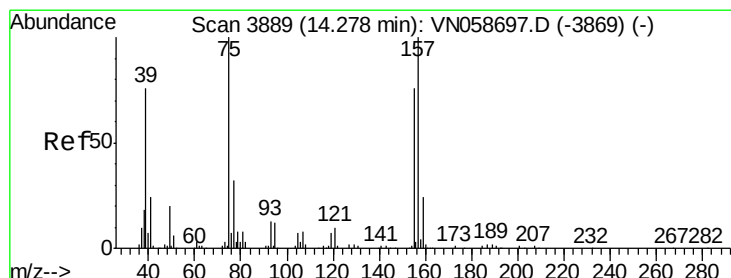
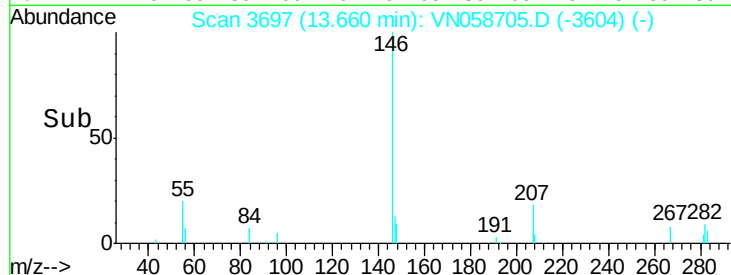
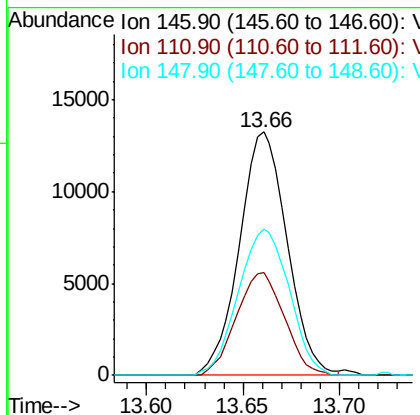
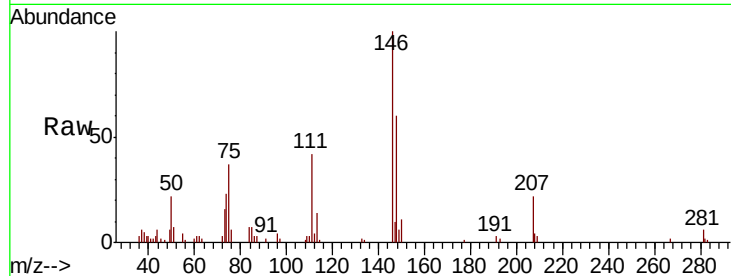
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	146	Resp:	22779
Ion Ratio	Lower	Upper	
146	100		
111	42.5	21.1	63.4
148	63.9	31.8	95.3

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:35 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.782 ug/l

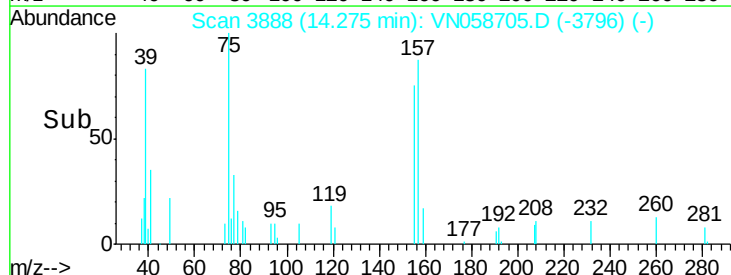
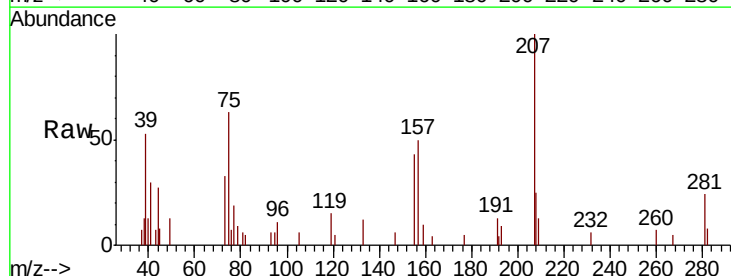
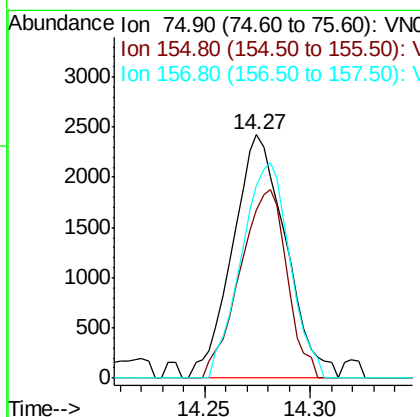
RT: 14.27 min Scan# 3888

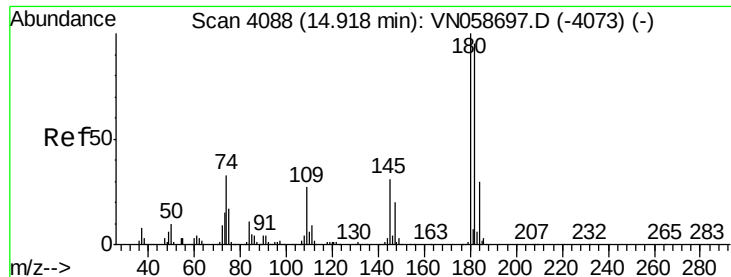
Delta R.T. -0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Tgt Ion:	75	Resp:	4238
Ion Ratio	Lower	Upper	
75	100		
155	68.8	37.9	113.6
157	80.9	49.4	148.2





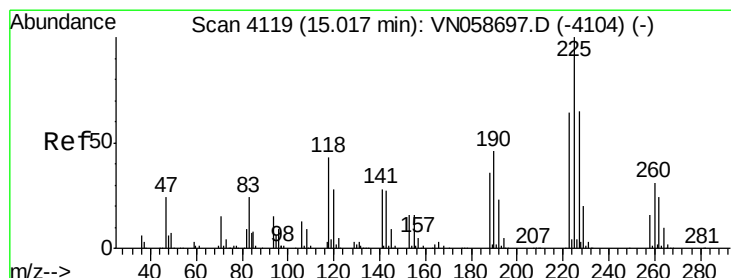
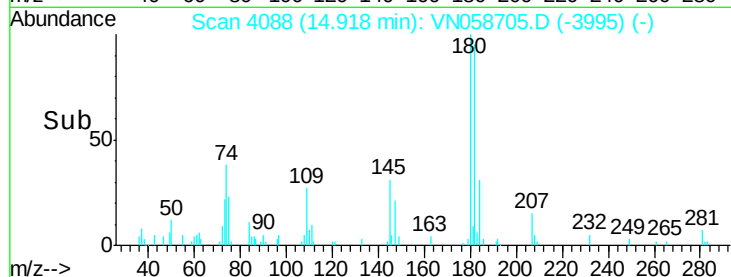
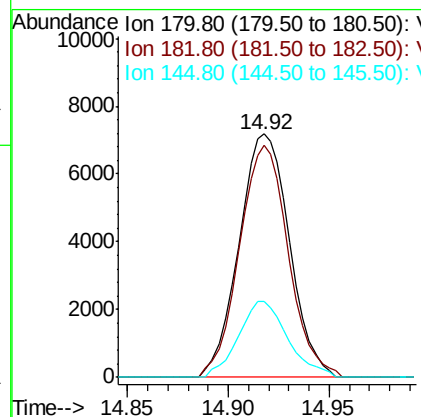
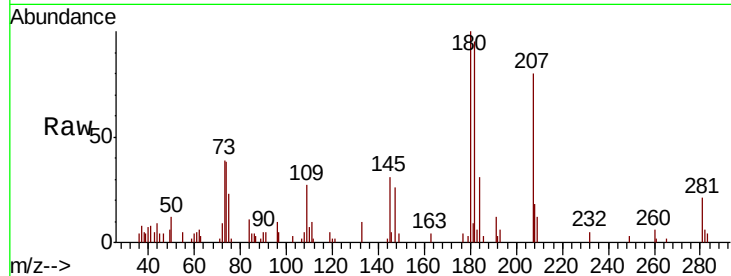
#93
 1,2,4-Trichlorobenzene
 Concen: 2.375 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058705.D
 Acq: 11 Oct 2019 15:58

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.8	47.4	142.2
145	30.7	15.4	46.2

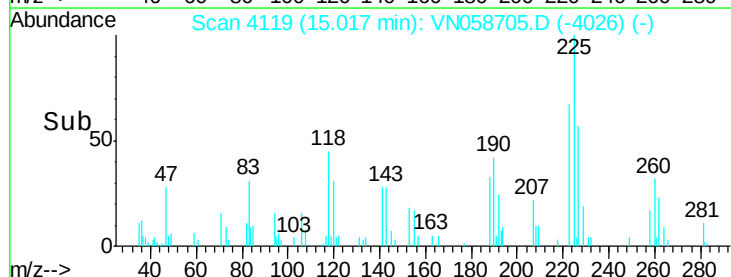
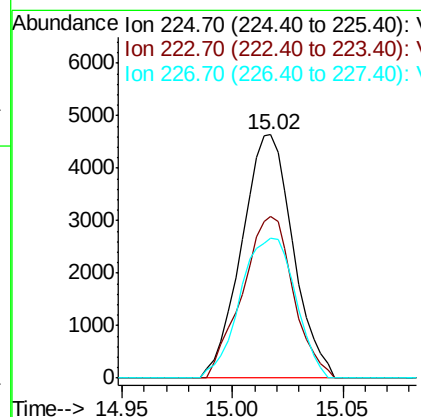
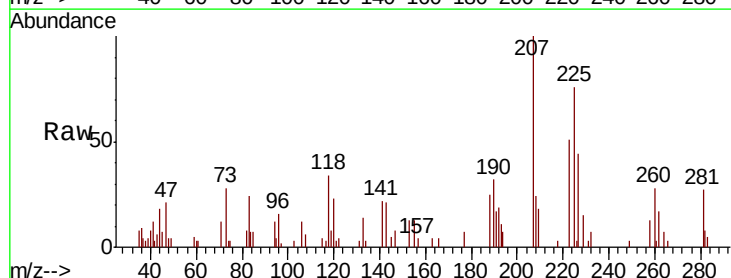
Manual Integrations
 APPROVED

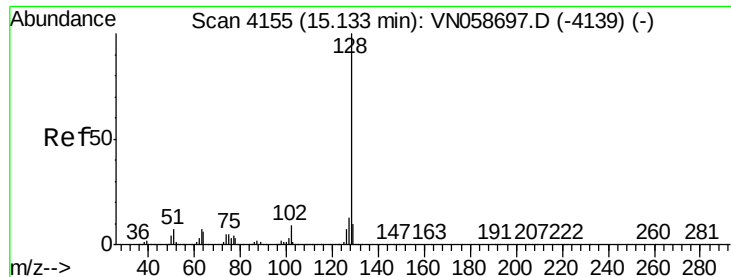
MMDadoda
 10/16/2019 12:48:35 AM



#94
 Hexachlorobutadiene
 Concen: 2.704 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN058705.D
 Acq: 11 Oct 2019 15:58

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.9	32.3	96.8
227	61.9	32.4	97.0





#95

Naphthalene

Concen: 2.151 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Instrument :

MSVOA_N

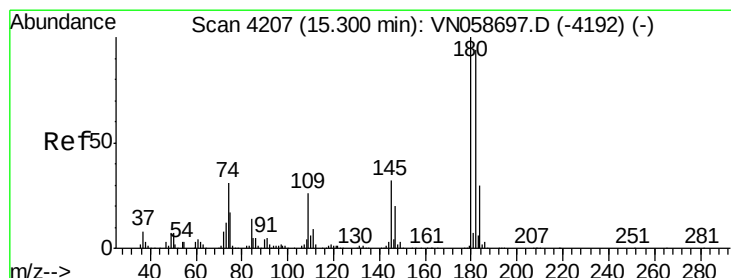
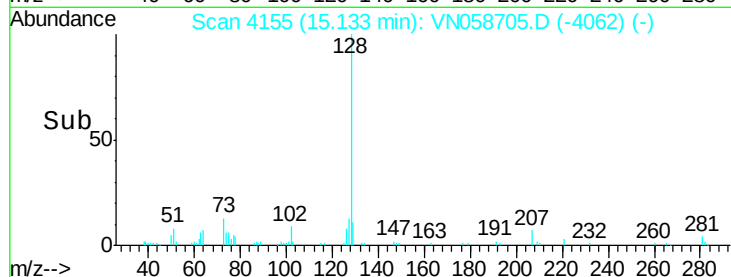
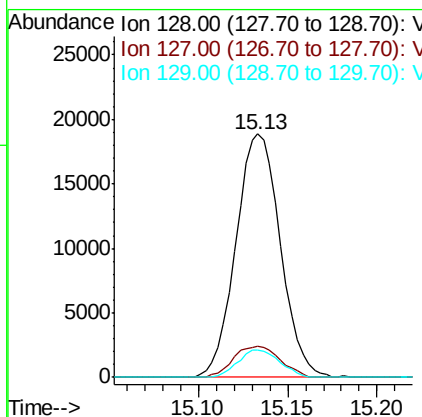
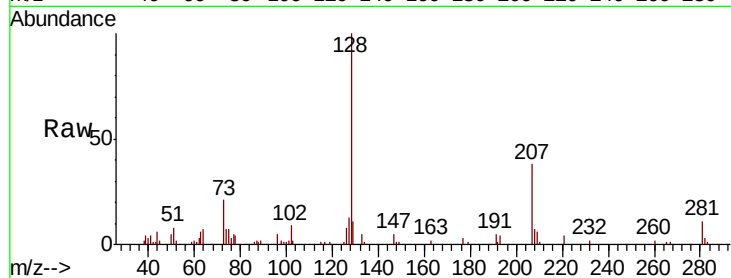
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	128	Resp:	32632
Ion Ratio	Lower	Upper	
128	100		
127	13.5	10.2	15.4
129	10.7	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:35 AM



#96

1,2,3-Trichlorobenzene

Concen: 2.294 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN058705.D

Acq: 11 Oct 2019 15:58

Tgt Ion:	180	Resp:	11824
Ion Ratio	Lower	Upper	
180	100		
182	97.8	47.3	142.0
145	31.7	16.2	48.6

