

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092019\
 Data File : VW013209.D
 Acq On : 21 Sep 2019 03:29
 Operator : SY/VA
 Sample : K4939-03MSD
 Misc : 6.39G/5ML/MSVOA W/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 982-S-3-(19)MSD

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 5:29:05 AM

Quant Time: Sep 21 06:21:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	261414	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	455971	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	350395	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	87460	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	134525	63.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.10%	
35) Dibromofluoromethane	7.88	113	131732	52.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.06%	
50) Toluene-d8	10.32	98	507881	48.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.78%	
62) 4-Bromofluorobenzene	12.62	95	126018	35.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	48291	32.025	ug/l	87
3) Chloromethane	2.21	50	69110	35.653	ug/l	98
4) Vinyl Chloride	2.36	62	92818	37.142	ug/l	97
5) Bromomethane	2.77	94	59078	37.305	ug/l	95
6) Chloroethane	2.92	64	60999	41.411	ug/l	95
7) Trichlorofluoromethane	3.25	101	55553	38.552	ug/l	95
8) Diethyl Ether	3.68	74	68867	55.952	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.06	101	106769	45.511	ug/l	99
10) Methyl Iodide	4.27	142	147191	40.467	ug/l	99
11) Tert butyl alcohol	5.19	59	53962	355.622	ug/l	100
12) 1,1-Dichloroethene	4.04	96	106169	43.702	ug/l	95
14) Allyl chloride	4.67	41	148496	38.407	ug/l	98
15) Acrylonitrile	5.37	53	164964	310.520	ug/l	99
16) Acetone	4.13	43	144593	300.526	ug/l	97
17) Carbon Disulfide	4.38	76	194661	27.723	ug/l	98
18) Methyl Acetate	4.67	43	144874	107.119	ug/l	98
19) Methyl tert-butyl Ether	5.42	73	236729	63.581	ug/l	99
20) Methylene Chloride	4.91	84	139516	57.112	ug/l	99
21) trans-1,2-Dichloroethene	5.42	96	114357	43.553	ug/l	98
22) Diisopropyl ether	6.31	45	440056	59.854	ug/l	95
23) Vinyl Acetate	6.25	43	151860	34.817	ug/l	100
24) 1,1-Dichloroethane	6.21	63	245557	55.349	ug/l	99
25) 2-Butanone	7.17	43	216824	300.202	ug/l	95
26) 2,2-Dichloropropane	7.16	77	100721	37.083	ug/l	95
27) cis-1,2-Dichloroethene	7.17	96	152279	54.955	ug/l	97
28) Bromochloromethane	7.51	49	111484	65.473	ug/l	99
29) Tetrahydrofuran	7.52	42	141030	318.397	ug/l	99
30) Chloroform	7.67	83	248852	57.292	ug/l	96
31) Cyclohexane	7.95	56	167722	36.267	ug/l	99
32) 1,1,1-Trichloroethane	7.87	97	184756	52.519	ug/l	99
36) 1,1-Dichloropropene	8.08	75	159887	36.203	ug/l	99
37) Ethyl Acetate	7.25	43	84266	44.894	ug/l	100
38) Carbon Tetrachloride	8.07	117	160204	40.466	ug/l	95
39) Methylcyclohexane	9.33	83	164499	28.984	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092019\
 Data File : VW013209.D
 Acq On : 21 Sep 2019 03:29
 Operator : SY/VA
 Sample : K4939-03MSD
 Misc : 6.39G/5ML/MSVOA W/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 982-S-3-(19)MSD

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 5:29:05 AM

Quant Time: Sep 21 06:21:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	8.32	78	527172	42.795	ug/l	100
41) Methacrylonitrile	7.48	41	59376	53.003	ug/l	99
42) 1,2-Dichloroethane	8.40	62	152996	46.201	ug/l	98
43) Isopropyl Acetate	8.42	43	170378	47.361	ug/l	98
44) Trichloroethene	9.09	130	224891	65.068	ug/l	98
45) 1,2-Dichloropropane	9.37	63	142319	47.321	ug/l	99
46) Dibromomethane	9.46	93	67491	46.223	ug/l	98
47) Bromodichloromethane	9.64	83	183173	49.301	ug/l	99
48) Methyl methacrylate	9.43	41	96352	56.960	ug/l	96
49) 1,4-Dioxane	9.46	88	27448	1252.328	ug/l #	89
51) 4-Methyl-2-Pentanone	10.21	43	486060	269.517	ug/l	99
52) Toluene	10.38	92	328952	41.666	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	159449	41.772	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	194811	41.974	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	109366	50.112	ug/l	98
56) Ethyl methacrylate	10.65	69	126943	44.445	ug/l	98
57) 1,3-Dichloropropane	10.93	76	171375	44.999	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	374755	283.418	ug/l	100
59) 2-Hexanone	10.96	43	302264	243.610	ug/l	99
60) Dibromochloromethane	11.13	129	122294m	49.350	ug/l	
61) 1,2-Dibromoethane	11.23	107	92685	44.667	ug/l	99
64) Tetrachloroethene	10.87	164	18070772	6797.178	ug/l #	80
65) Chlorobenzene	11.66	112	320857	43.851	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	130714	52.292	ug/l	99
67) Ethyl Benzene	11.73	91	527887	39.818	ug/l	98
68) m/p-Xylenes	11.84	106	377600	74.744	ug/l	99
69) o-Xylene	12.16	106	186513	39.710	ug/l	98
70) Stvrene	12.18	104	318193	39.460	ug/l	99
71) Bromoform	12.35	173	69270	52.453	ug/l #	100
73) Isopropylbenzene	12.46	105	415796	64.357	ug/l	100
74) N-amyl acetate	12.27	43	79035	55.129	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	100070	92.614	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	68767m	89.032	ug/l	
77) Bromobenzene	12.74	156	119832	78.270	ug/l	98
78) n-propylbenzene	12.80	91	378258	50.017	ug/l	99
79) 2-Chlorotoluene	12.89	91	270829	63.923	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	255103	46.972	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	24120	70.073	ug/l	97
82) 4-Chlorotoluene	12.99	91	253245	56.682	ug/l	99
83) tert-Butylbenzene	13.21	119	227656	47.759	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	239749	44.363	ug/l	98
85) sec-Butylbenzene	13.38	105	229468	34.917	ug/l	100
86) p-Isopropyltoluene	13.49	119	184034	30.192	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	131473	44.619	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	131011	45.335	ug/l	99
89) n-Butylbenzene	13.82	91	106215	19.083	ug/l	99
90) Hexachloroethane	14.09	117	49985	48.814	ug/l	100
91) 1,2-Dichlorobenzene	13.87	146	118473	46.476	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.48	75	12162	73.589	ug/l	94
93) 1,2,4-Trichlorobenzene	15.13	180	17350	9.498	ug/l	96

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW092019\
Data File : VW013209.D
Acq On : 21 Sep 2019 03:29
Operator : SY/VA
Sample : K4939-03MSD
Misc : 6.39G/5ML/MSVOA W/SOIL
ALS Vial : 36 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:29:05 AM

Quant Time: Sep 21 06:21:31 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 20 15:58:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.24	225	11473	9.181	ug/l	94
95) Naphthalene	15.36	128	69923	23.405	ug/l	99
96) 1,2,3-Trichlorobenzene	15.55	180	15210	9.637	ug/l	99

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

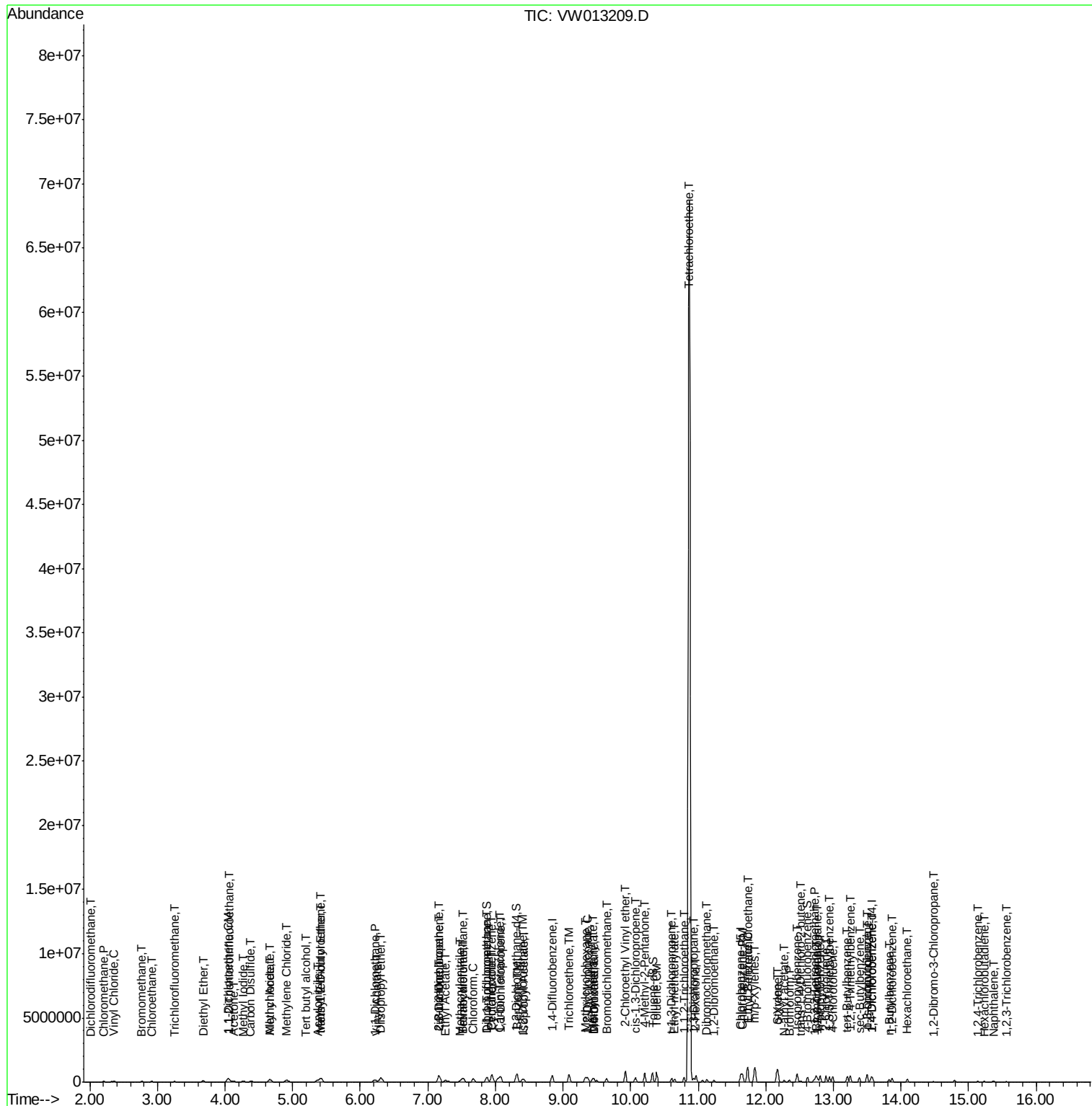
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092019\
 Data File : VW013209.D
 Acq On : 21 Sep 2019 03:29
 Operator : SY/VA
 Sample : K4939-03MSD
 Misc : 6.39G/5ML/MSVOA W/SOIL
 ALS Vial : 36 Sample Multiplier: 1

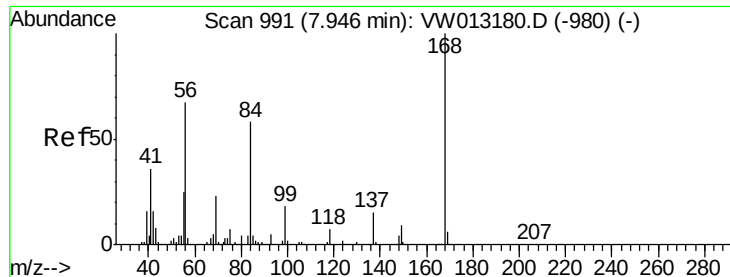
Instrument :
 MSVOA_W
 ClientSampleId :
 982-S-3-(19)MSD

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 5:29:05 AM

Quant Time: Sep 21 06:21:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

ClientSampleId :

982-S-3-(19)MSD

Tot Ion:168 Resp: 261414

Ion Ratio Lower Upper

168 100

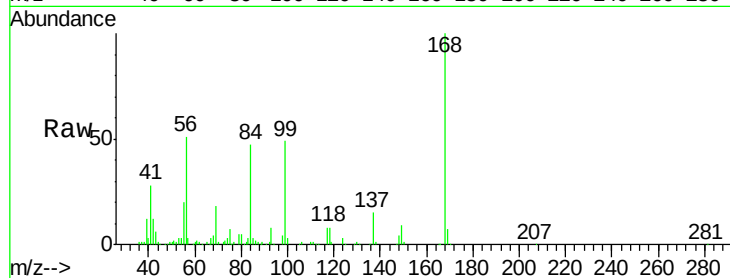
99 49.1 40.2 60.4

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:29:05 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

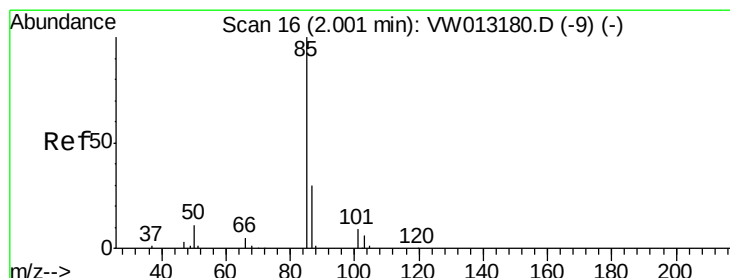
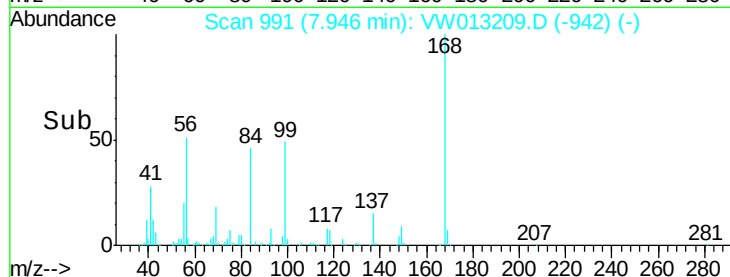
7.95

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 32.025 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.01 min

Lab File: VW013209.D

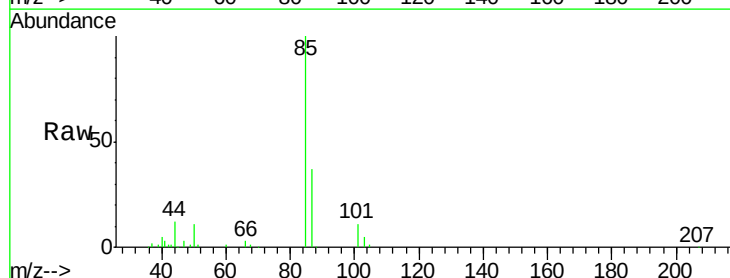
Acq: 21 Sep 2019 03:29

Tgt Ion: 85 Resp: 48291

Ion Ratio Lower Upper

85 100

87 37.0 15.1 45.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

20000

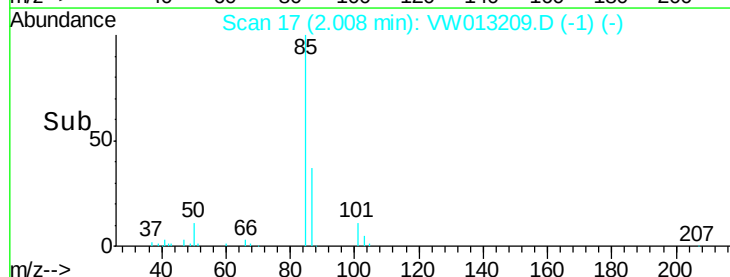
15000

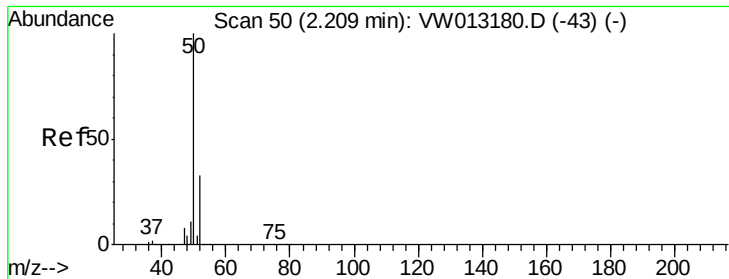
10000

5000

0

Time--> 1.90 2.00 2.10 2.20





#3

Chloromethane

Concen: 35.653 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

ClientSampleId :

982-S-3-(19)MSD

Tot Ion: 50 Resp: 69110

Ion Ratio Lower Upper

50 100

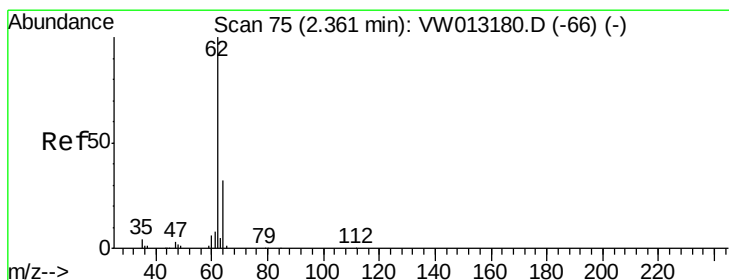
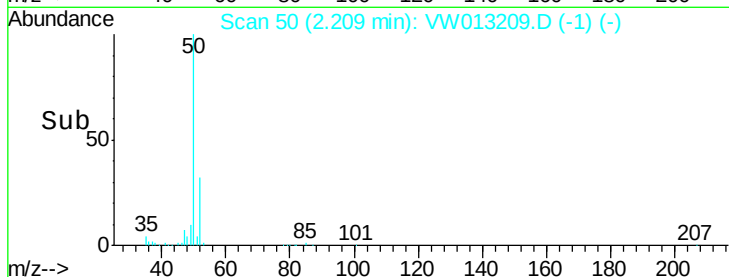
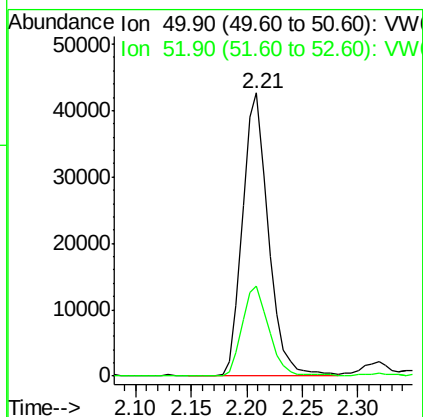
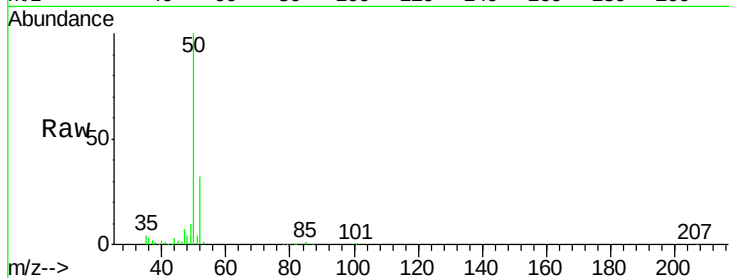
52 31.6 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:29:05 AM



#4

Vinyl Chloride

Concen: 37.142 ug/l

RT: 2.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW013209.D

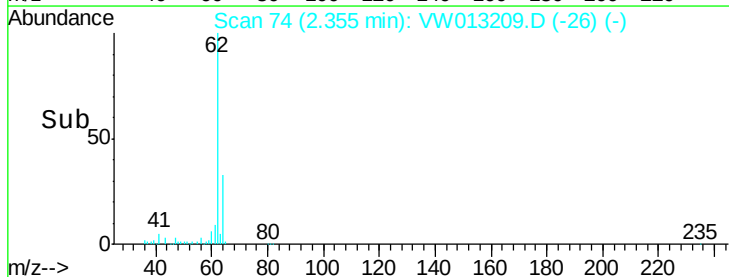
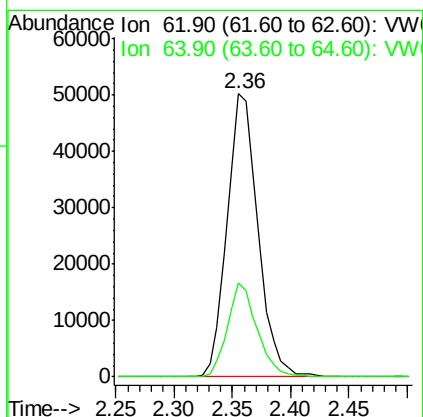
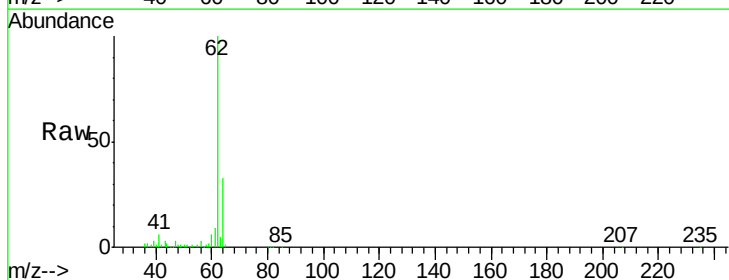
Acq: 21 Sep 2019 03:29

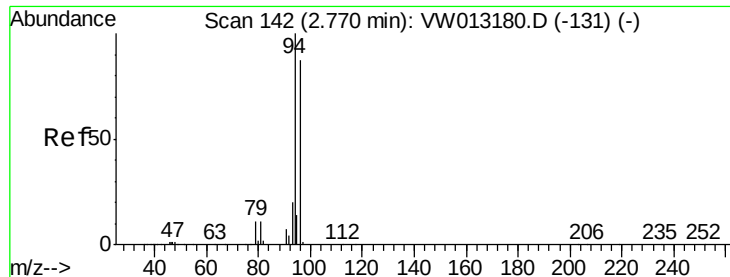
Tgt Ion: 62 Resp: 92818

Ion Ratio Lower Upper

62 100

64 33.2 25.3 37.9





#5

Bromomethane

Concen: 37.305 ug/l

RT: 2.77 min Scan# 142

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

ClientSampleId :

982-S-3-(19)MSD

Tot Ion: 94 Resp: 59078

Ion Ratio Lower Upper

94 100

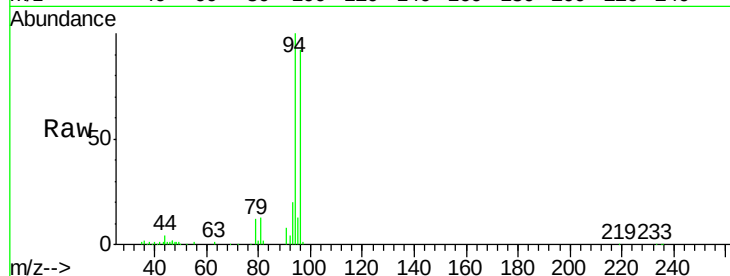
96 92.0 69.7 104.5

Manual Integrations

APPROVED

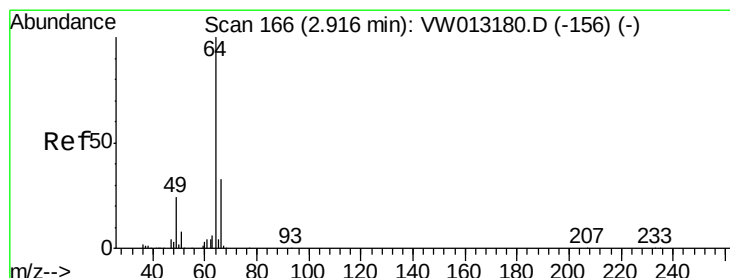
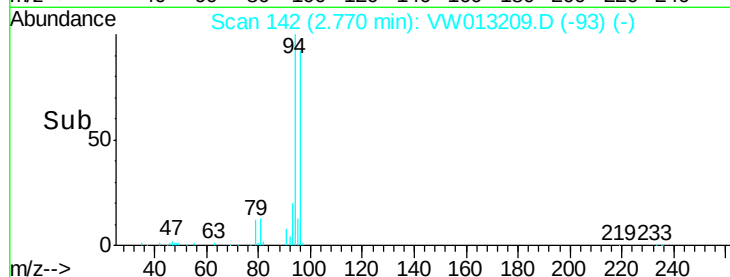
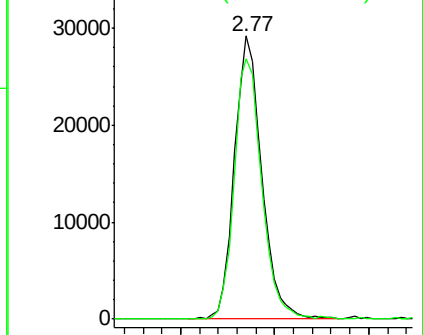
MMDadoda

9/24/2019 5:29:05 AM



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 41.411 ug/l

RT: 2.92 min Scan# 166

Delta R.T. 0.00 min

Lab File: VW013209.D

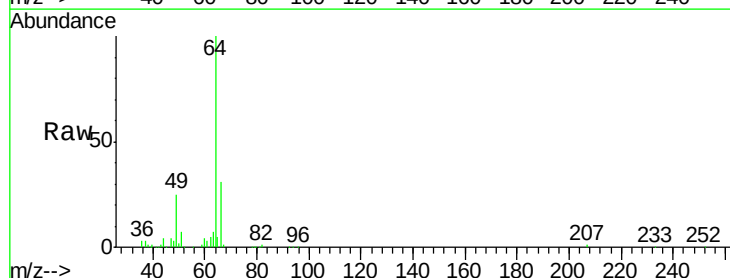
Acq: 21 Sep 2019 03:29

Tgt Ion: 64 Resp: 60999

Ion Ratio Lower Upper

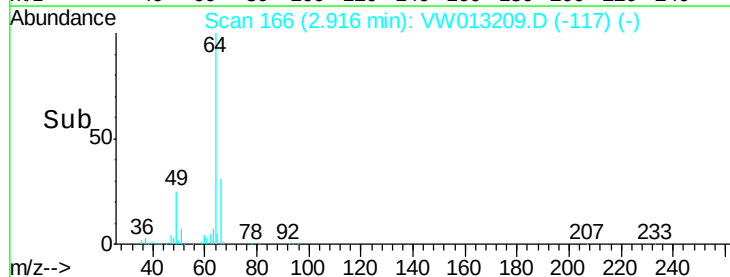
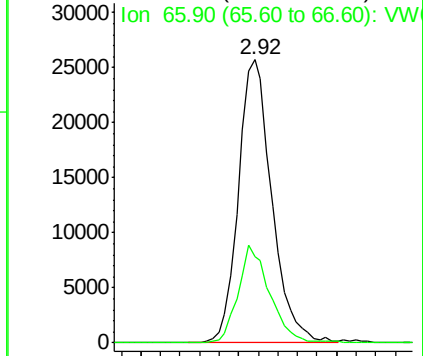
64 100

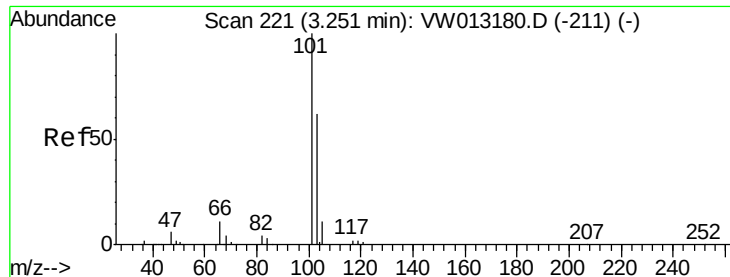
66 30.6 26.6 39.8



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW





#7

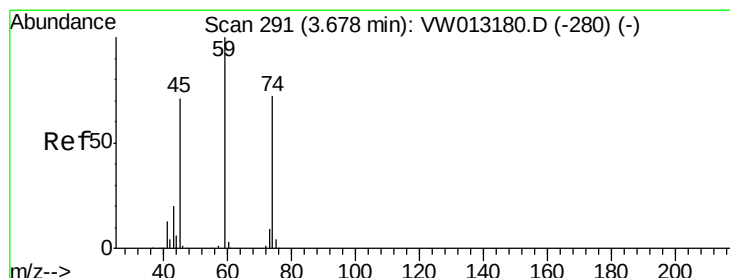
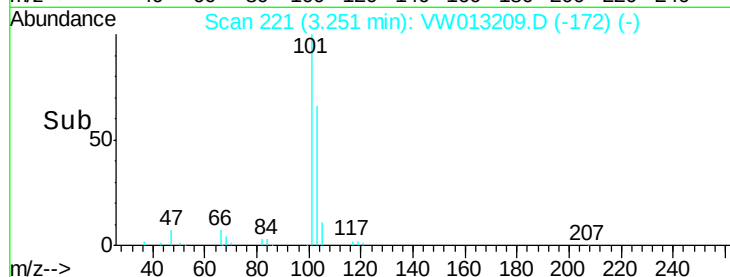
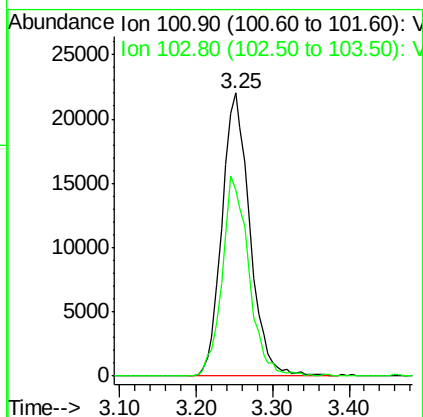
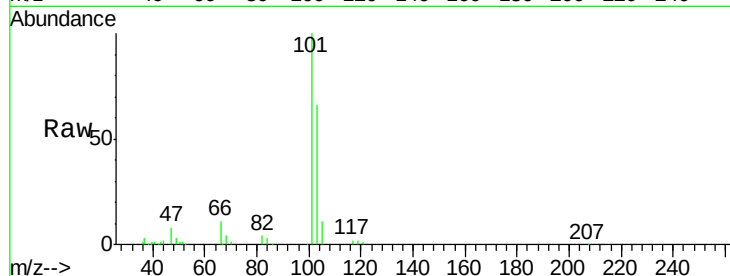
Trichlorofluoromethane
Concen: 38.552 ug/l
RT: 3.25 min Scan# 221
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.7	49.7	74.5

Manual Integrations
APPROVED

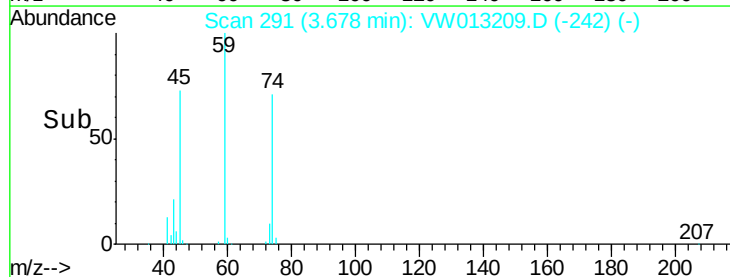
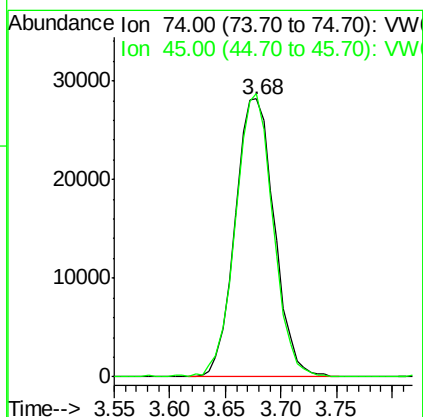
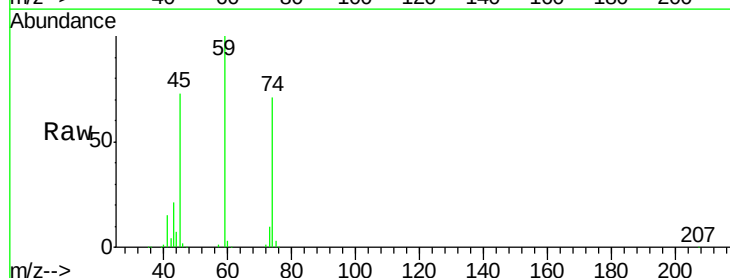
MMDadoda
9/24/2019 5:29:05 AM

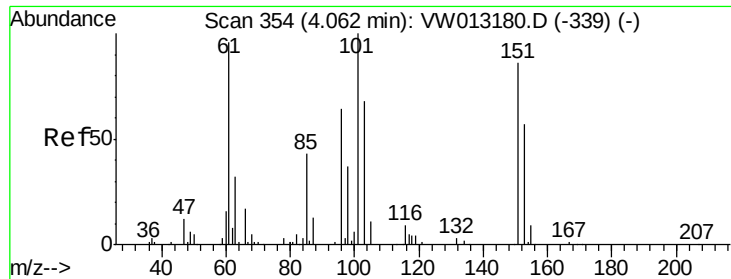


#8

Diethyl Ether
Concen: 55.952 ug/l
RT: 3.68 min Scan# 291
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.8	49.5	148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.511 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

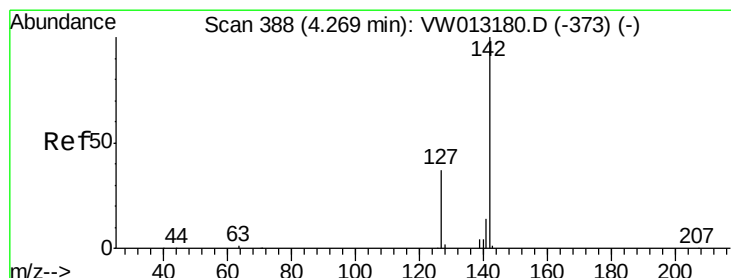
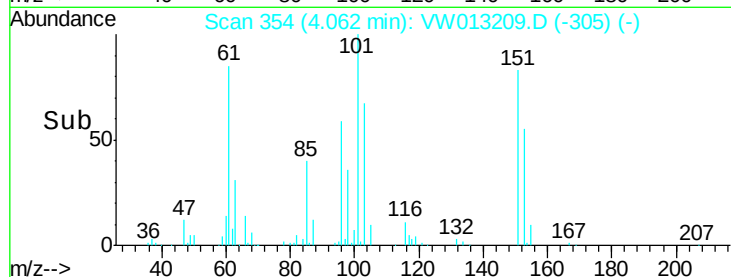
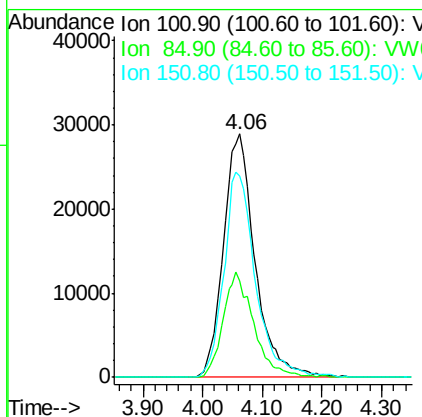
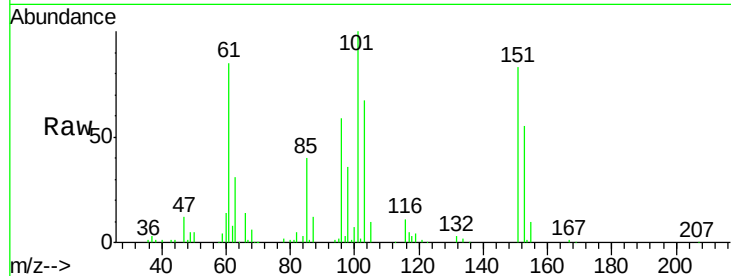
ClientSampleId :

982-S-3-(19)MSD

Tot Ion:	101	Resp:	106769
Ion Ratio	Lower	Upper	
101	100		
85	41.7	33.4	50.0
151	84.5	66.9	100.3

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:29:05 AM



#10

Methyl Iodide

Concen: 40.467 ug/l

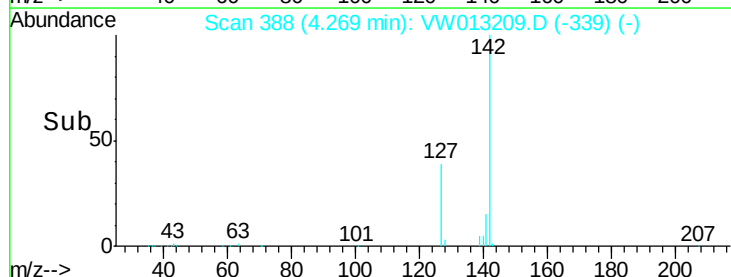
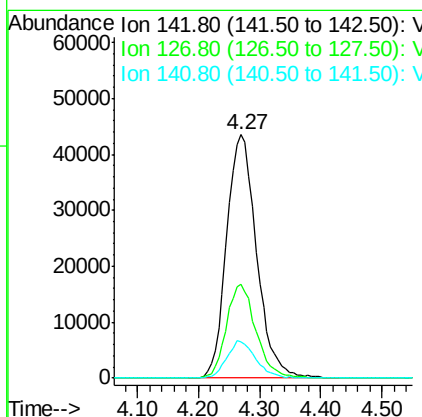
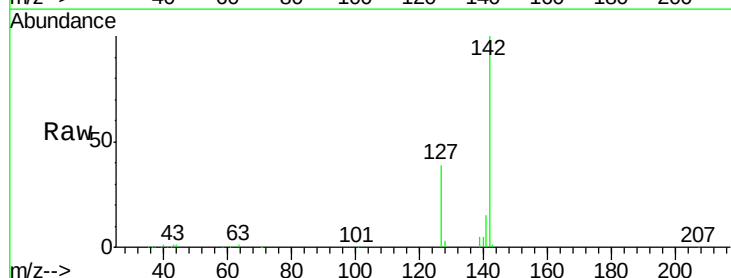
RT: 4.27 min Scan# 388

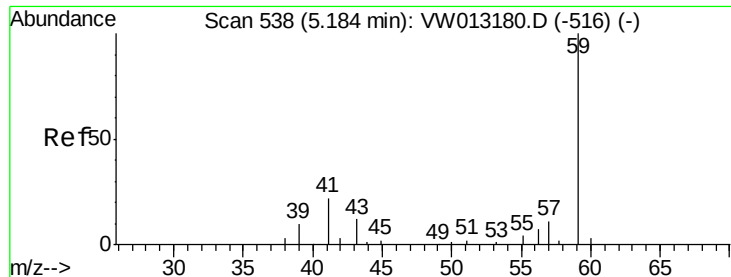
Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Tgt Ion:	142	Resp:	147191
Ion Ratio	Lower	Upper	
142	100		
127	37.8	30.9	46.3
141	14.8	11.7	17.5





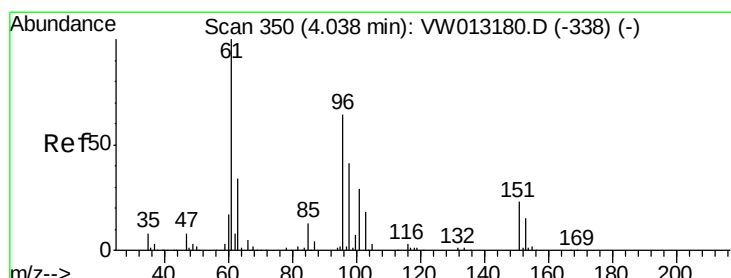
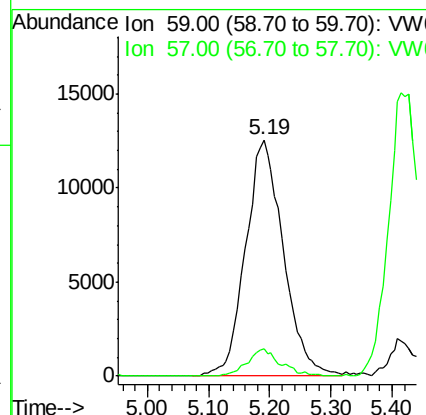
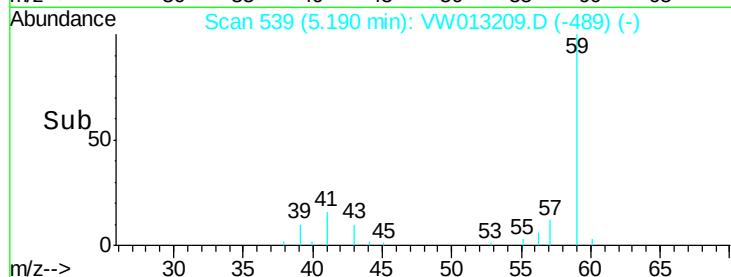
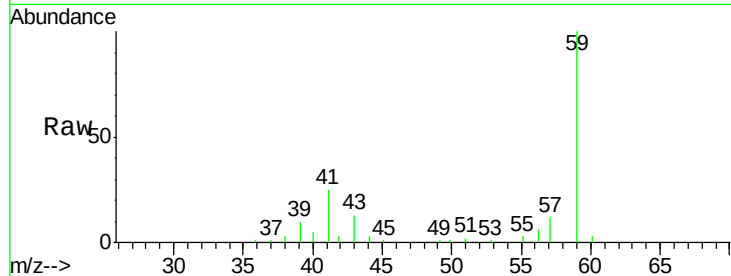
#11
Tert butyl alcohol
Concen: 355.622 ug/l
RT: 5.19 min Scan# 539
Delta R.T. 0.01 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.2	12.2

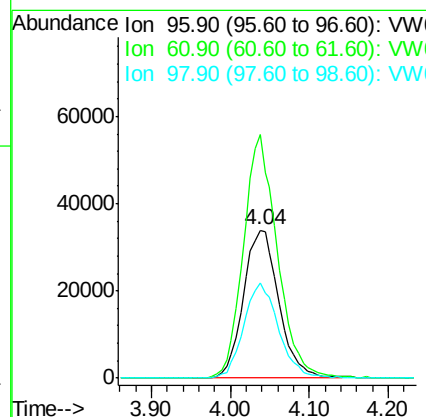
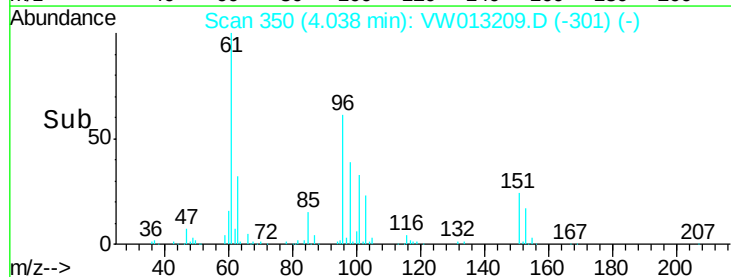
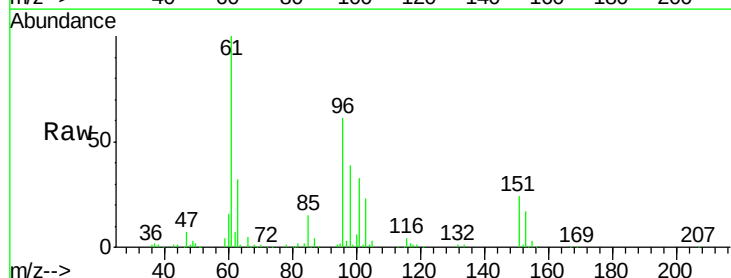
Manual Integrations
APPROVED

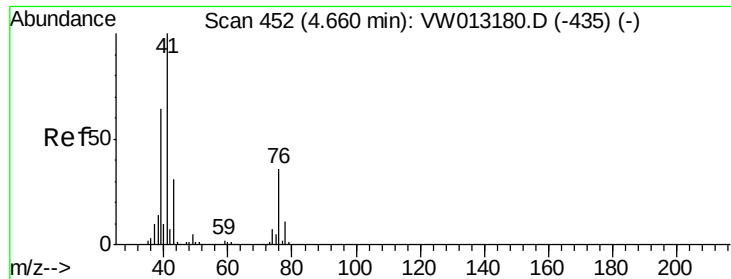
MMDadoda
9/24/2019 5:29:05 AM



#12
1,1-Dichloroethene
Concen: 43.702 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.4	125.1	187.7
98	64.5	50.8	76.2





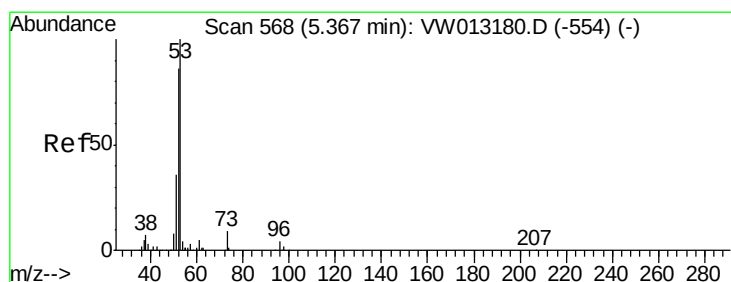
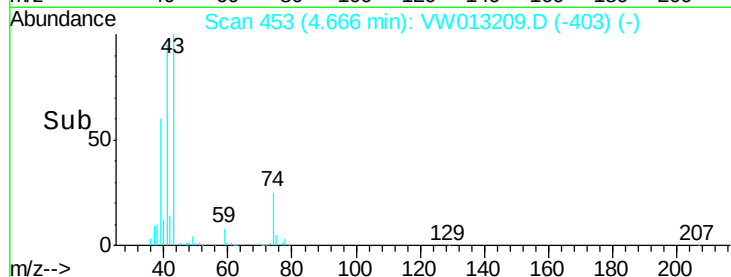
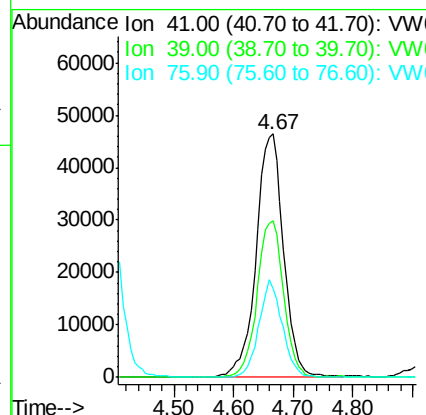
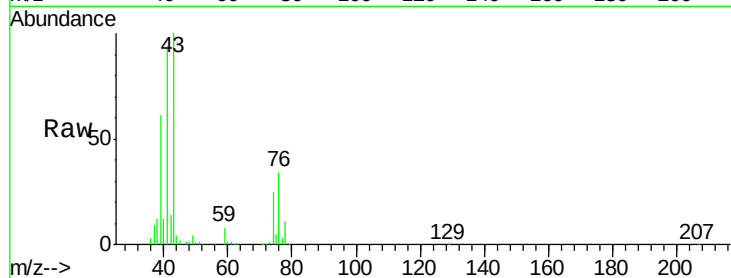
#14
Allvl chloride
Concen: 38.407 ug/l
RT: 4.67 min Scan# 453
Delta R.T. 0.01 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion:	41	Resp:	148496
Ion Ratio	Lower	Upper	
41	100		
39	61.9	51.0	76.4
76	33.9	28.4	42.6

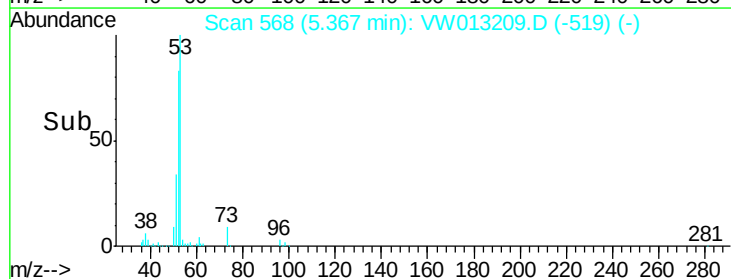
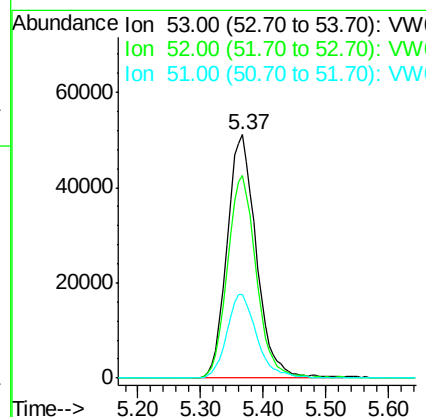
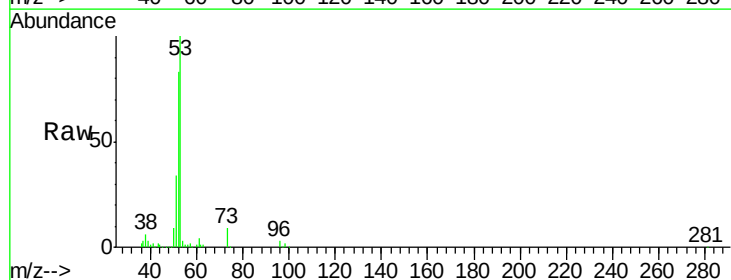
Manual Integrations
APPROVED

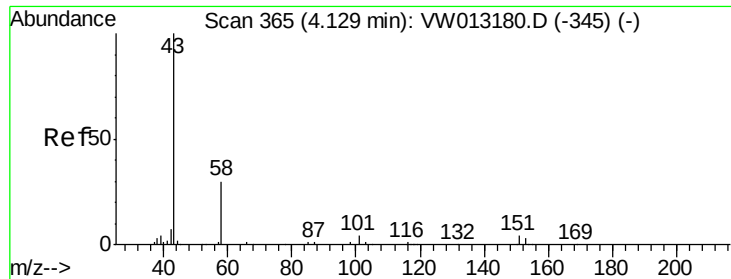
MMDadoda
9/24/2019 5:29:05 AM



#15
Acrylonitrile
Concen: 310.520 ug/l
RT: 5.37 min Scan# 568
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion:	53	Resp:	164964
Ion Ratio	Lower	Upper	
53	100		
52	82.0	65.3	97.9
51	35.3	29.0	43.4





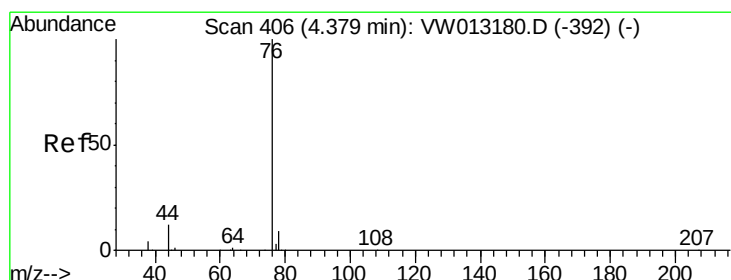
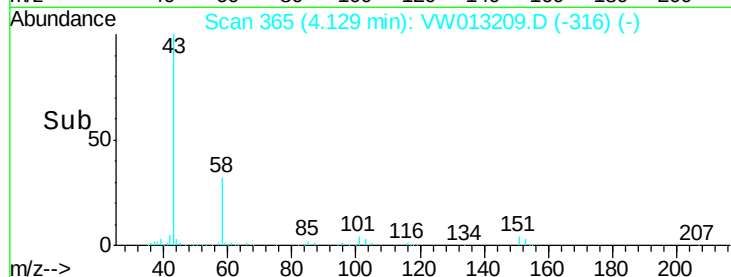
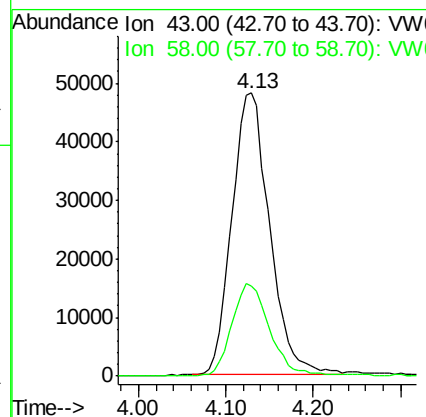
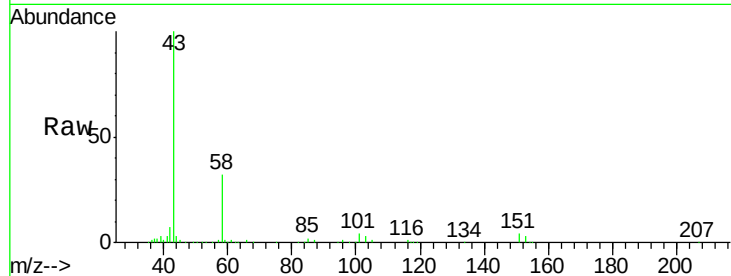
#16
Acetone
Concen: 300.526 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion: 43 Resp: 144593
Ion Ratio Lower Upper
43 100
58 31.8 24.1 36.1

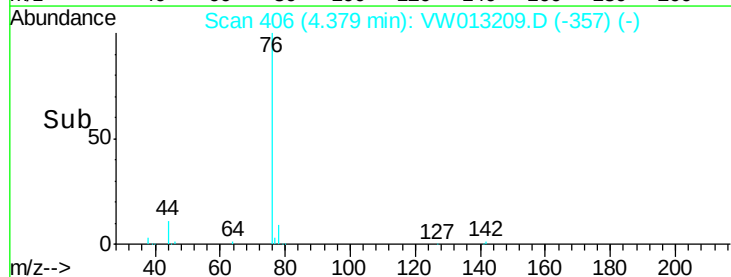
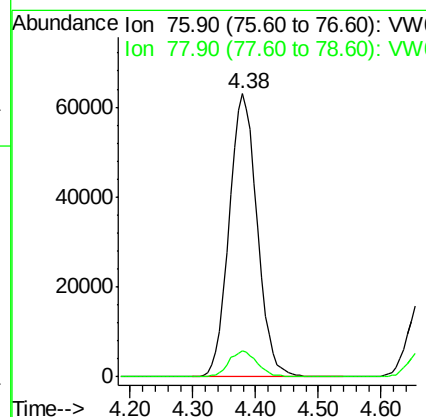
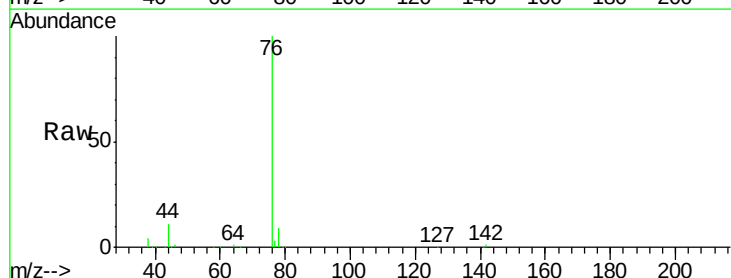
Manual Integrations
APPROVED

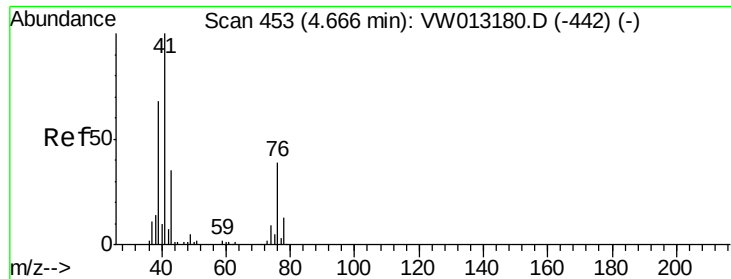
MMDadoda
9/24/2019 5:29:05 AM



#17
Carbon Disulfide
Concen: 27.723 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion: 76 Resp: 194661
Ion Ratio Lower Upper
76 100
78 9.4 7.0 10.4





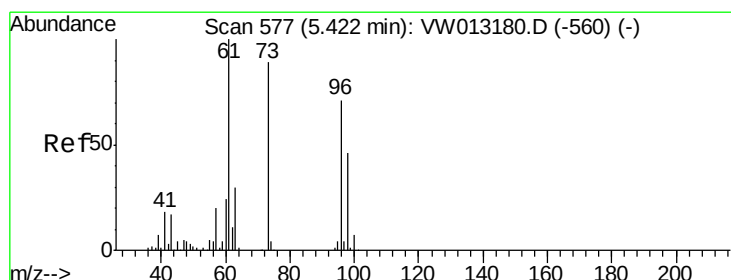
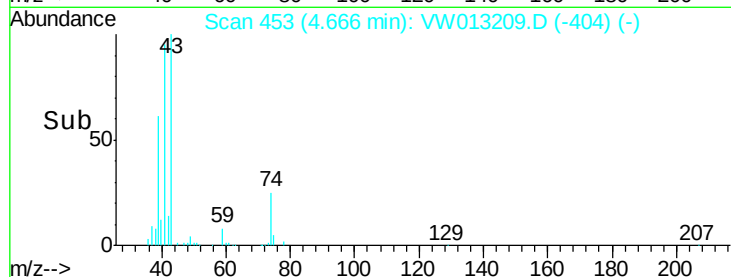
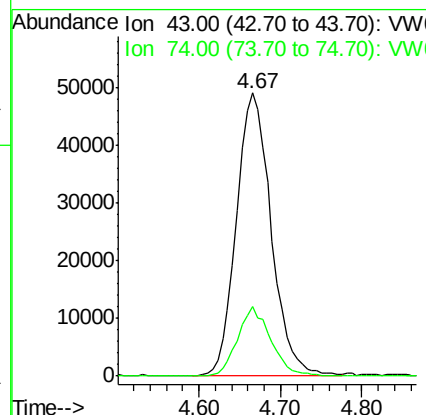
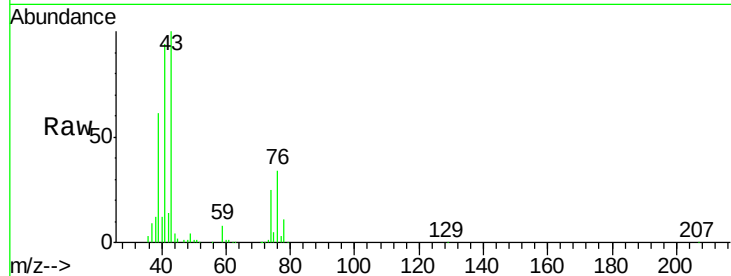
#18
Methyl Acetate
Concen: 107.119 ug/l
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion: 43 Resp: 144874
Ion Ratio Lower Upper
43 100
74 23.3 19.3 28.9

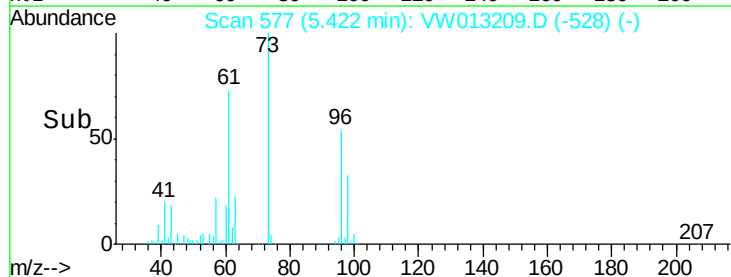
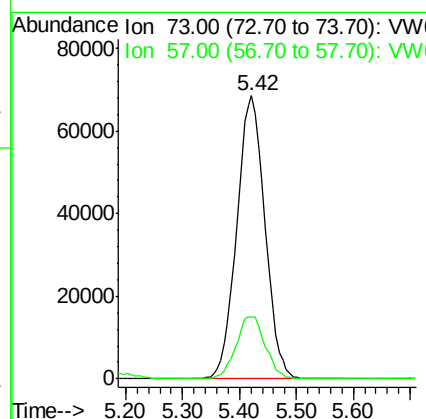
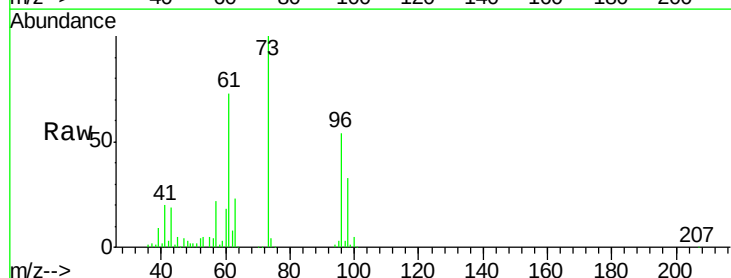
Manual Integrations
APPROVED

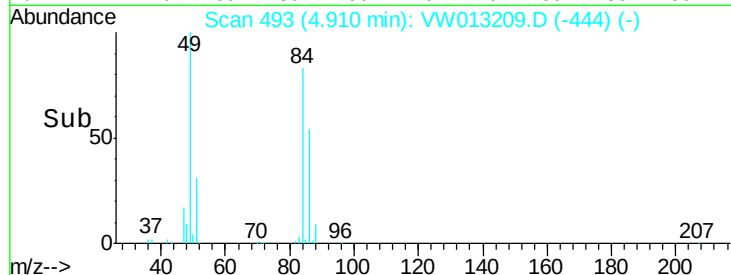
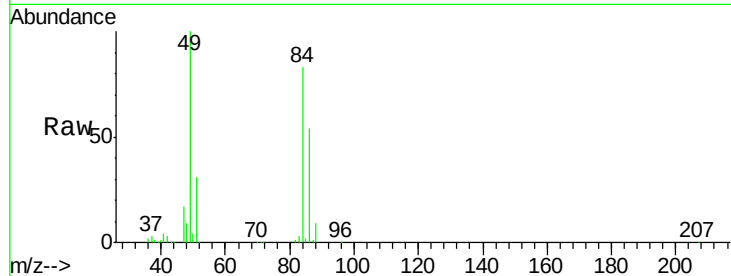
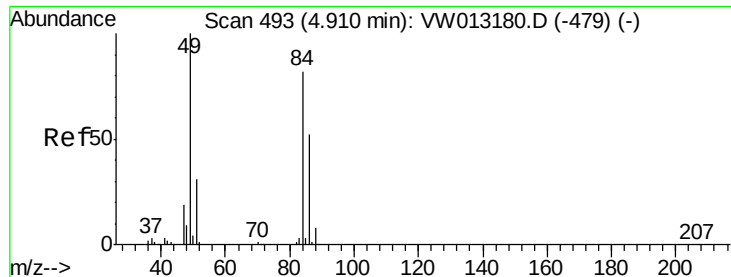
MMDadoda
9/24/2019 5:29:05 AM



#19
Methyl tert-butyl Ether
Concen: 63.581 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion: 73 Resp: 236729
Ion Ratio Lower Upper
73 100
57 21.7 17.6 26.4





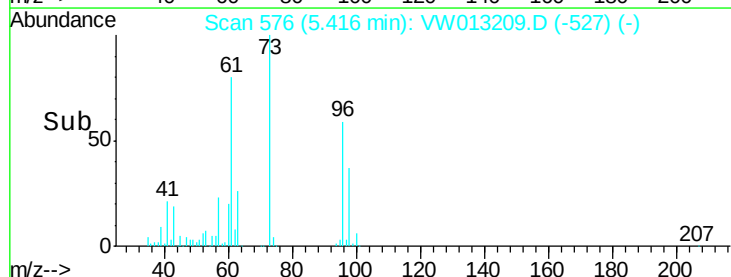
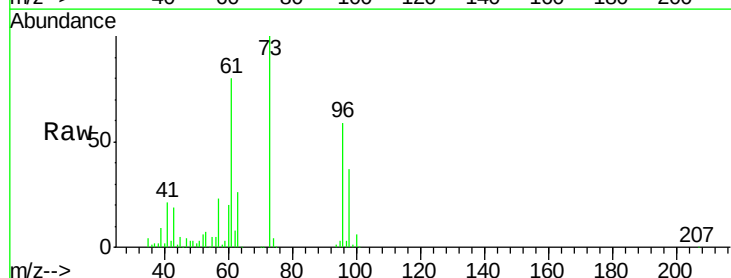
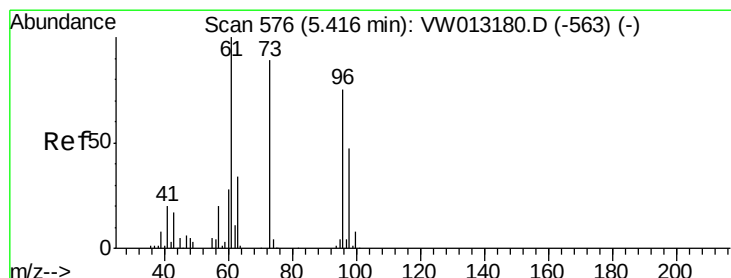
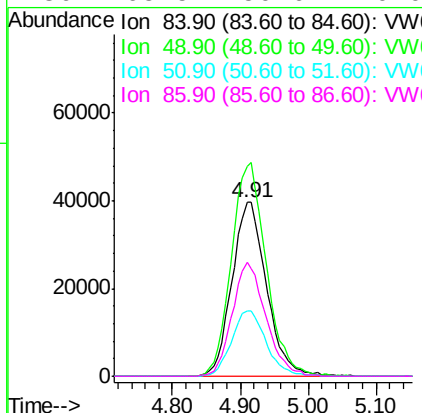
#20
Methylene Chloride
Concen: 57.112 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tot Ion	84	Resp	139516
Ion Ratio	Lower	Upper	
84	100		
49	121.2	97.6	146.4
51	37.5	30.2	45.2
86	65.5	50.6	76.0

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

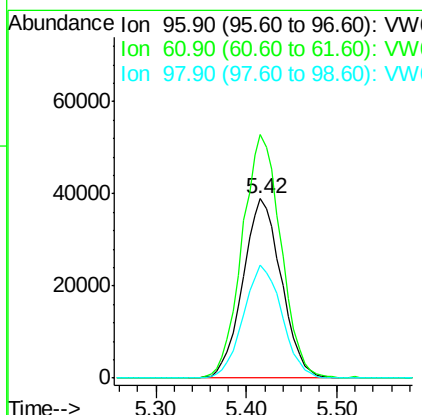
Manual Integrations
APPROVED

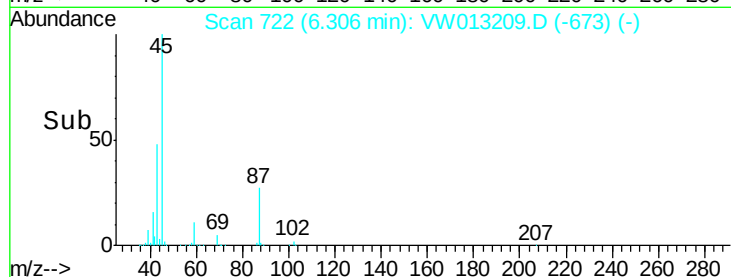
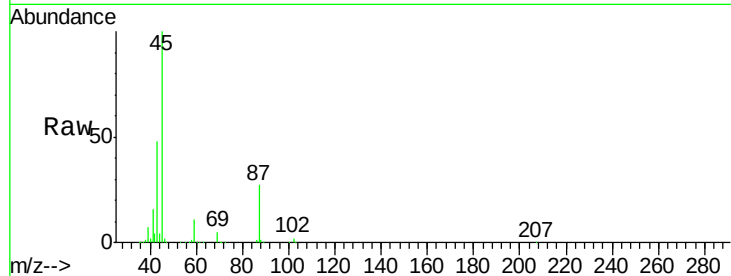
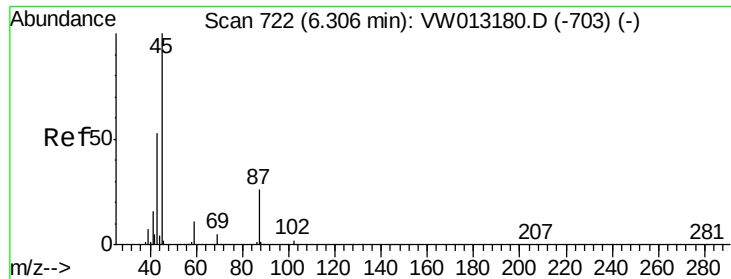
MMDadoda
9/24/2019 5:29:05 AM



#21
trans-1,2-Dichloroethene
Concen: 43.553 ug/l
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	96	Resp	114357
Ion Ratio	Lower	Upper	
96	100		
61	135.9	106.6	159.8
98	63.0	49.8	74.8





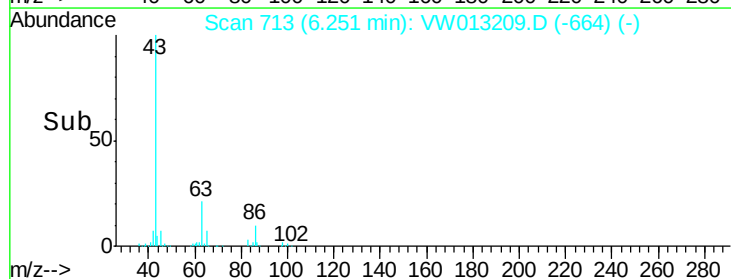
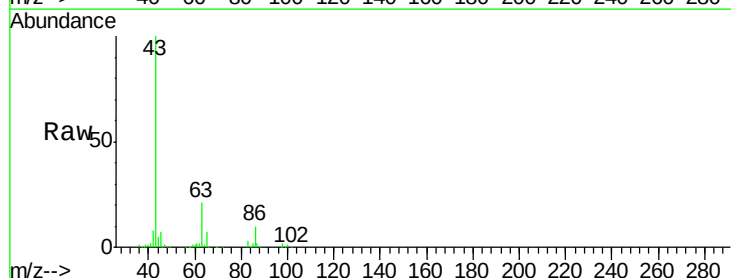
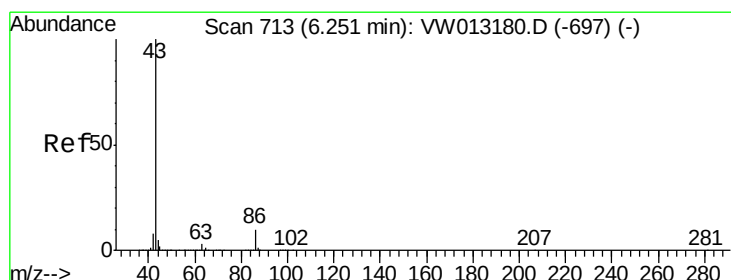
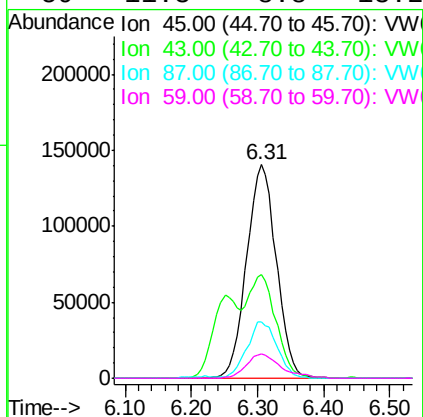
#22
Diisopropyl ether
Concen: 59.854 ug/l
RT: 6.31 min Scan# 722
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tot Ion	Ion	Ratio	Resp	Lower	Upper
45	45.00 (44.70 to 45.70): VW	100			
43	43.00 (42.70 to 43.70): VW	48.2		42.4	63.6
87	87.00 (86.70 to 87.70): VW	26.6		20.4	30.6
59	59.00 (58.70 to 59.70): VW	11.3		8.8	13.2

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

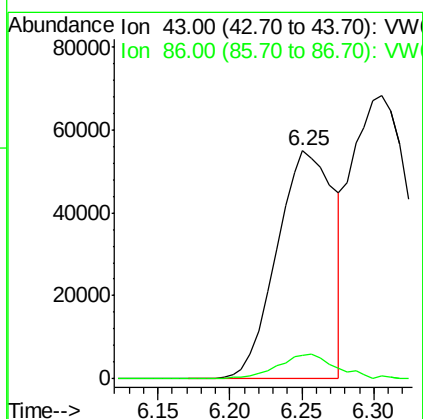
Manual Integrations
APPROVED

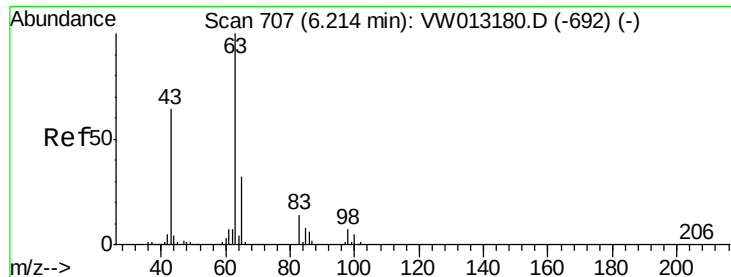
MMDadoda
9/24/2019 5:29:05 AM



#23
Vinyl Acetate
Concen: 34.817 ug/l
RT: 6.25 min Scan# 713
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
43	43.00 (42.70 to 43.70): VW	100			
86	86.00 (85.70 to 86.70): VW	10.3		8.3	12.5





#24

1,1-Dichloroethane

Concen: 55.349 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

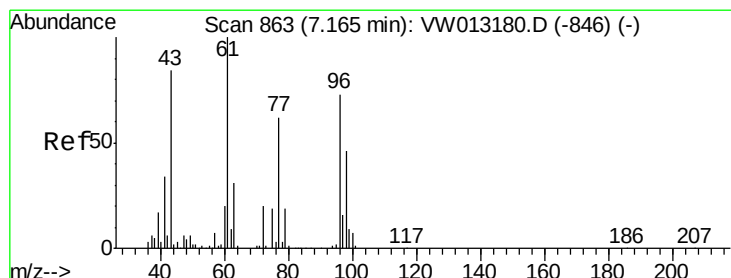
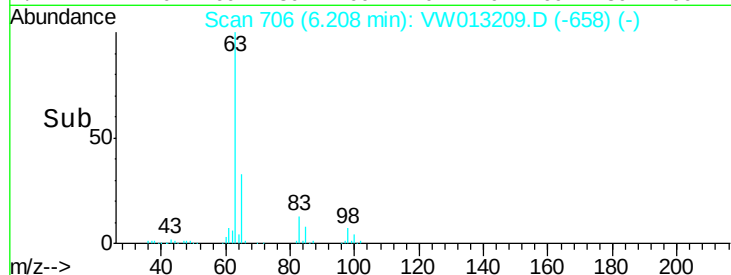
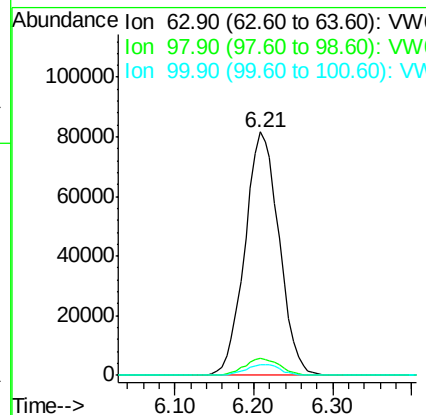
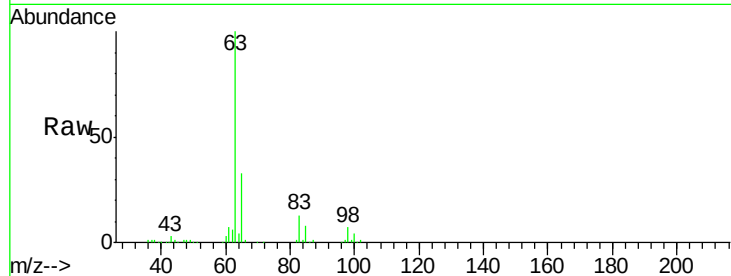
ClientSampleId :

982-S-3-(19)MSD

Tot Ion:	63	Resp:	245557
Ion Ratio	Lower	Upper	
63	100		
98	6.9	3.5	10.5
100	4.3	2.4	7.1

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:29:05 AM



#25

2-Butanone

Concen: 300.202 ug/l

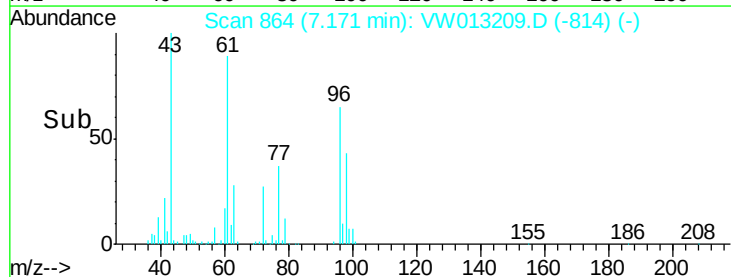
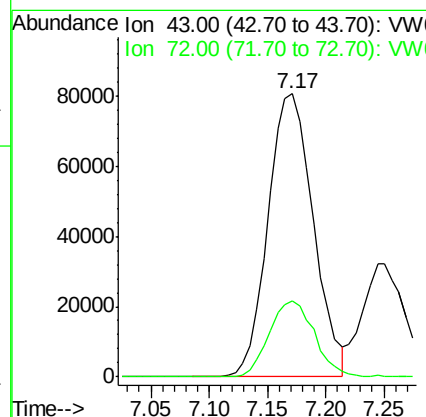
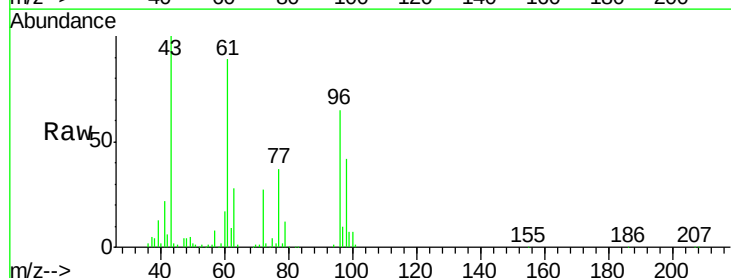
RT: 7.17 min Scan# 864

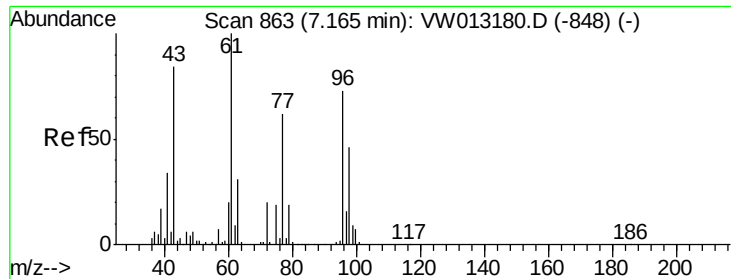
Delta R.T. 0.01 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Tgt Ion:	43	Resp:	216824
Ion Ratio	Lower	Upper	
43	100		
72	26.6	19.4	29.0





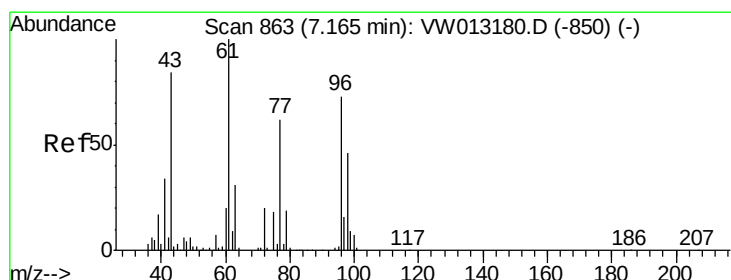
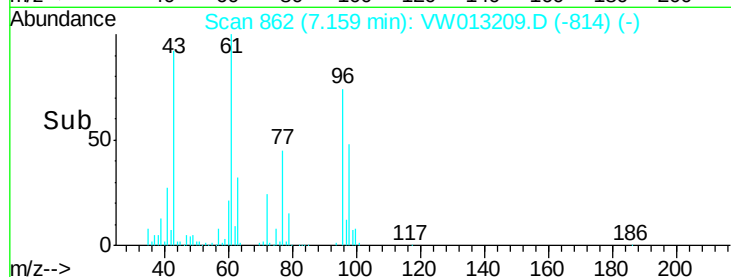
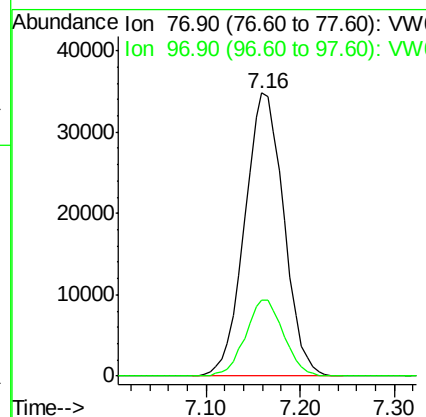
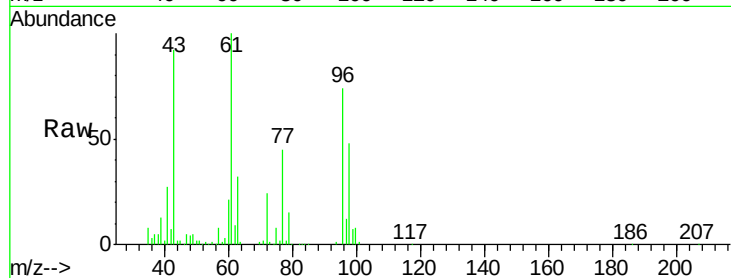
#26
 2,2-Dichloropropane
 Concen: 37.083 ug/l
 RT: 7.16 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Instrument :
 MSVOA_W
 ClientSampleId :
 982-S-3-(19)MSD

Tot Ion	Ratio	Lower	Upper
77	100		
97	26.2	11.8	35.4

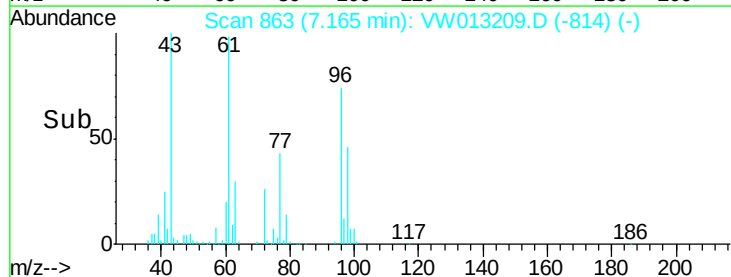
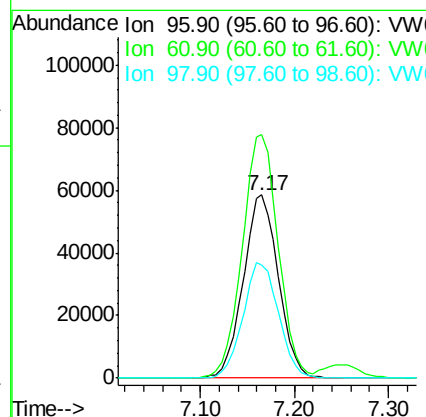
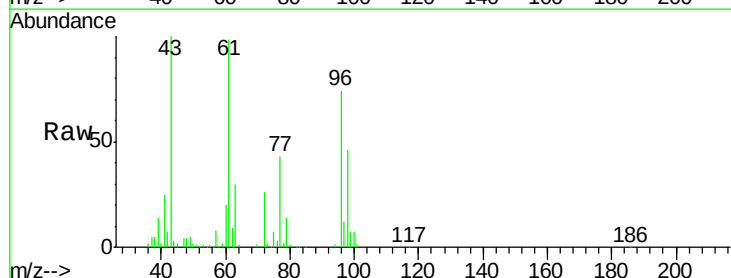
Manual Integrations
 APPROVED

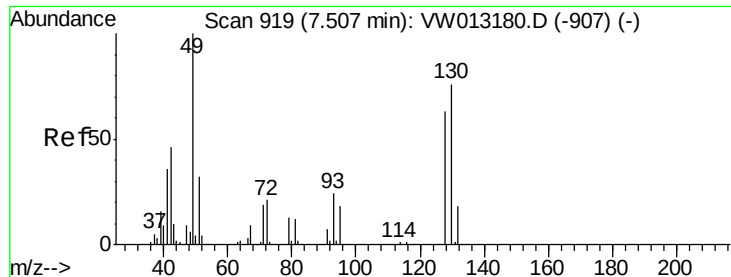
MMDadoda
 9/24/2019 5:29:05 AM



#27
 cis-1,2-Dichloroethene
 Concen: 54.955 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Lower	Upper
96	100		
61	136.0	0.0	282.4
98	64.3	0.0	128.2





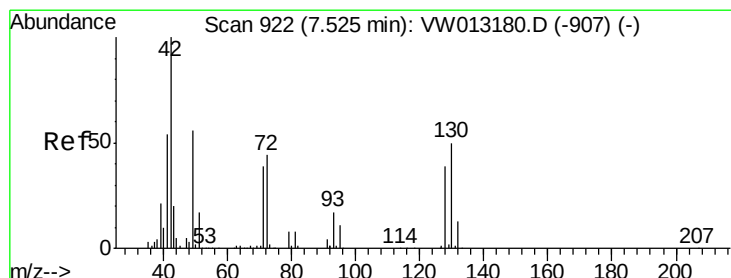
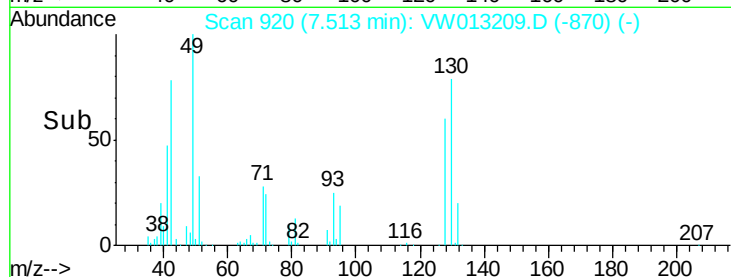
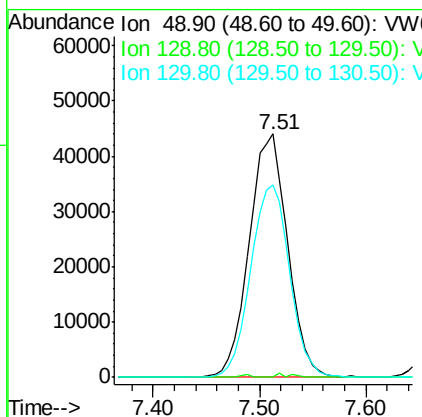
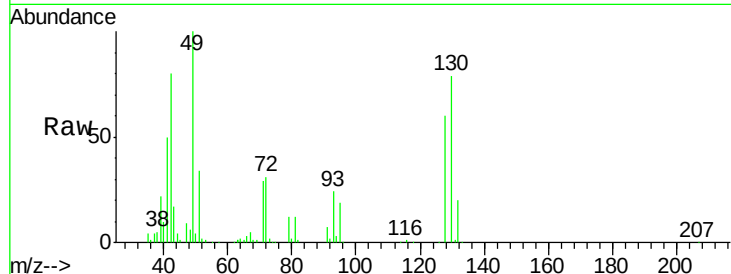
#28
Bromochloromethane
Concen: 65.473 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion: 49 Resp: 111484
Ion Ratio Lower Upper
49 100
129 0.6 0.0 1.0
130 80.0 63.4 95.2

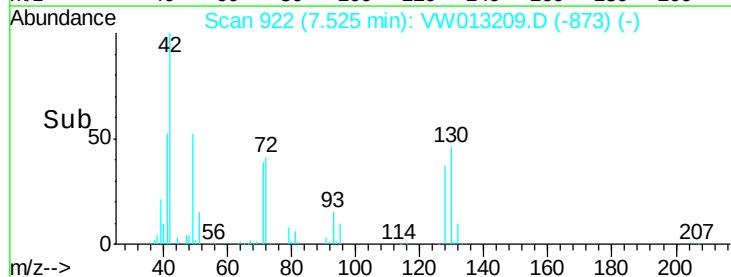
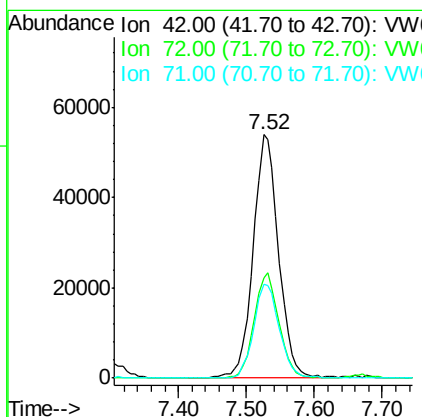
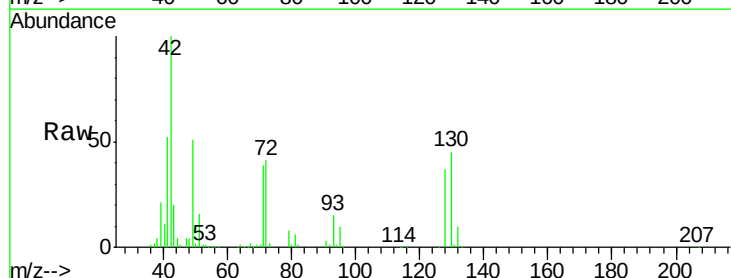
Manual Integrations
APPROVED

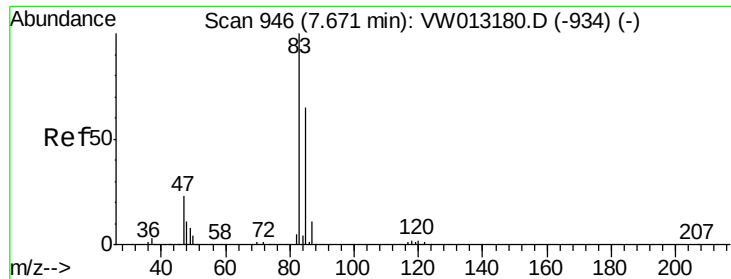
MMDadoda
9/24/2019 5:29:05 AM



#29
Tetrahydrofuran
Concen: 318.397 ug/l
RT: 7.52 min Scan# 922
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion: 42 Resp: 141030
Ion Ratio Lower Upper
42 100
72 42.1 33.9 50.9
71 39.0 31.9 47.9





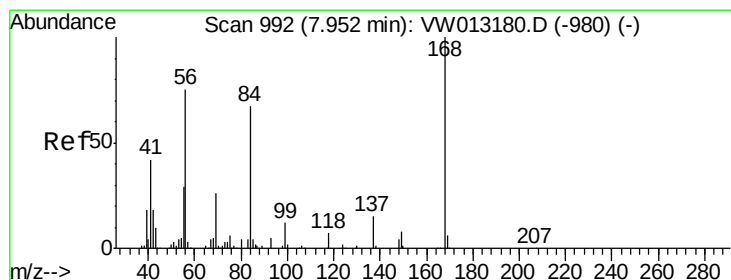
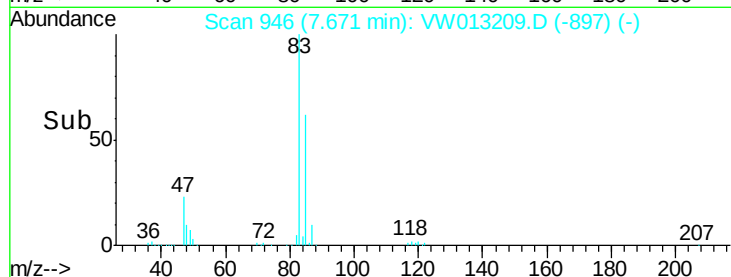
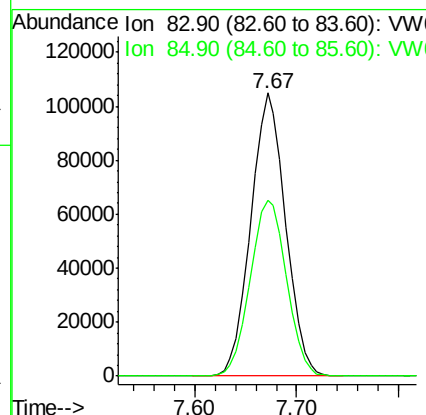
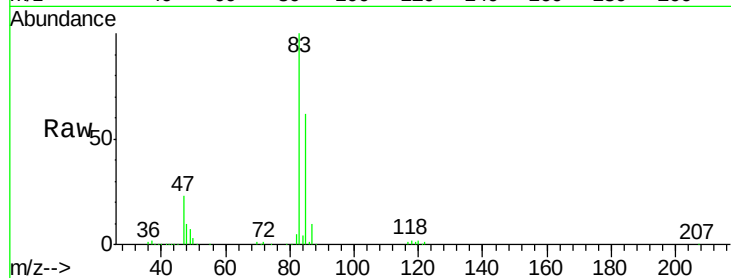
#30
Chloroform
Concen: 57.292 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion	83	Resp	248852
Ion Ratio	100	Lower	Upper
83	100		
85	62.1	52.3	78.5

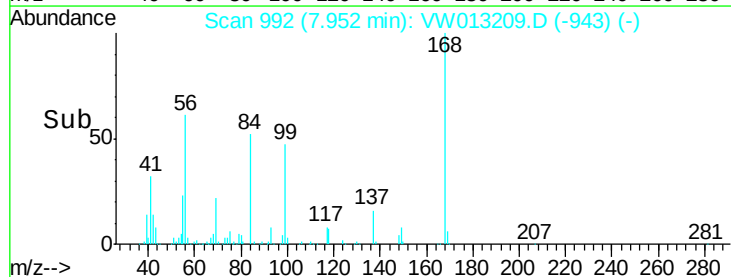
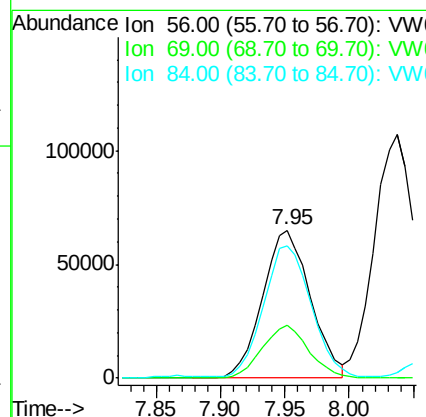
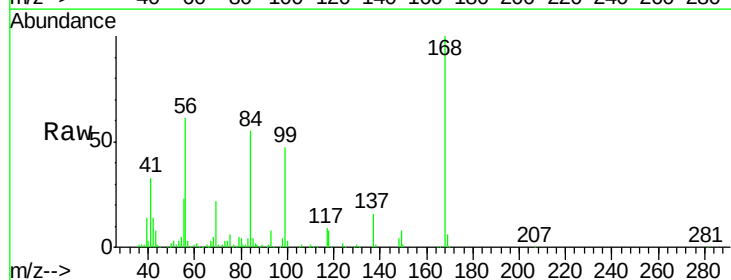
Manual Integrations
APPROVED

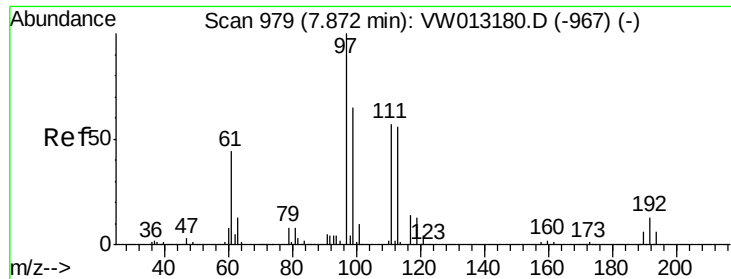
MMDadoda
9/24/2019 5:29:05 AM



#31
Cyclohexane
Concen: 36.267 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	56	Resp	167722
Ion Ratio	100	Lower	Upper
56	100		
69	36.2	27.2	40.8
84	88.1	70.8	106.2





#32

1,1,1-Trichloroethane

Concen: 52.519 ug/l

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

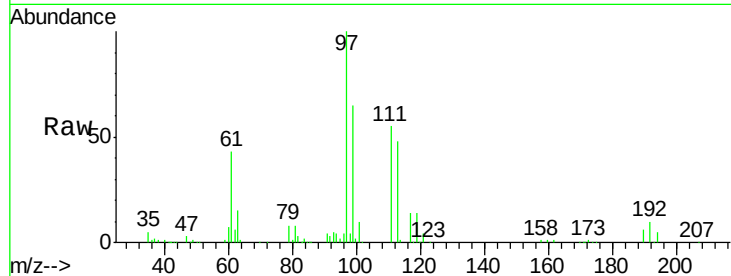
ClientSampleId :

982-S-3-(19)MSD

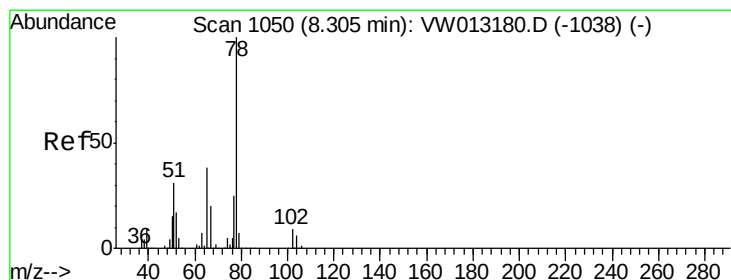
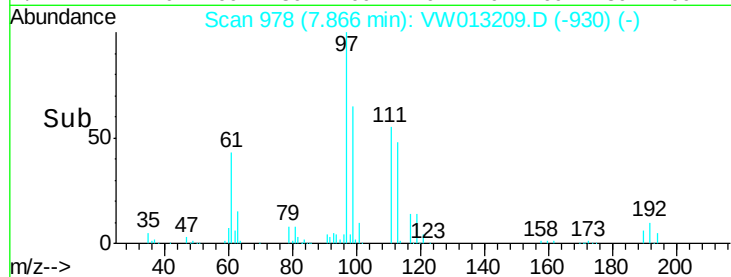
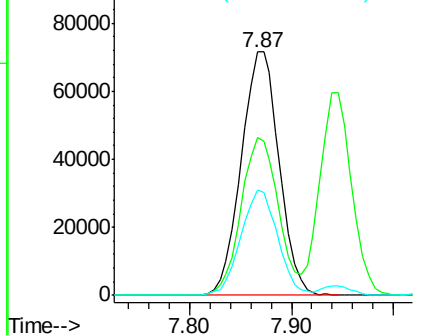
Tot Ion:	97	Resp:	184756
Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.7	77.5
61	42.1	34.6	51.8

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:29:05 AM



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



#33

1,2-Dichloroethane-d4

Concen: 63.053 ug/l

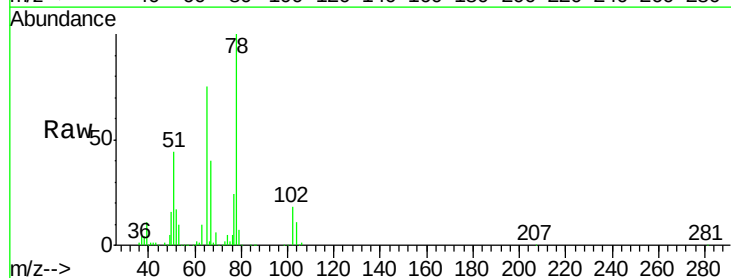
RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

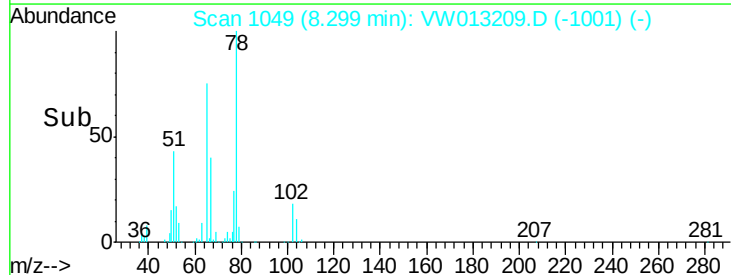
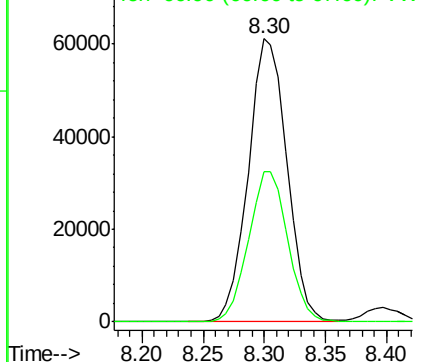
Lab File: VW013209.D

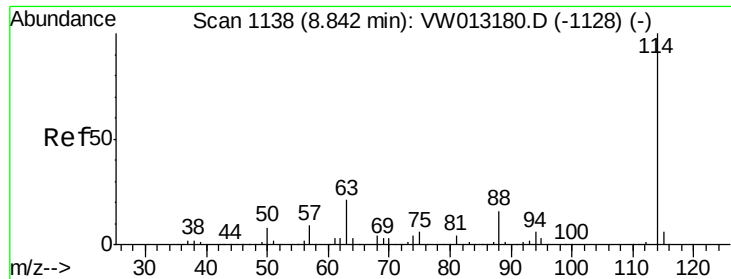
Acq: 21 Sep 2019 03:29

Tgt Ion:	65	Resp:	134525
Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	106.2



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW





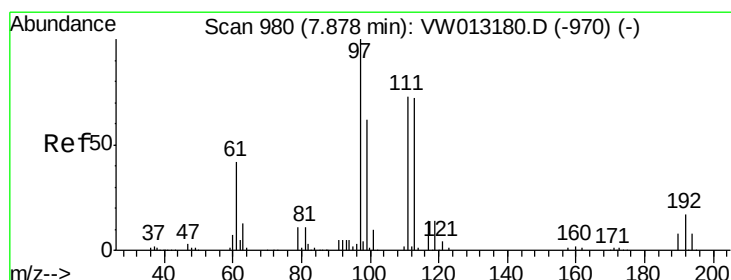
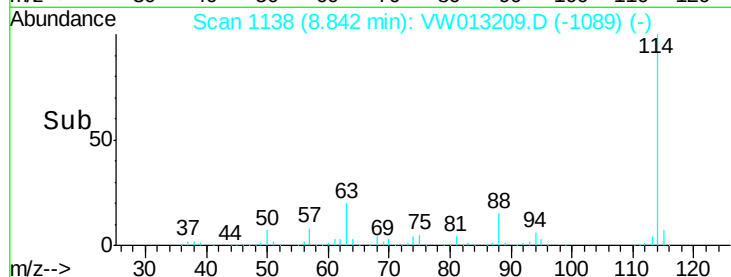
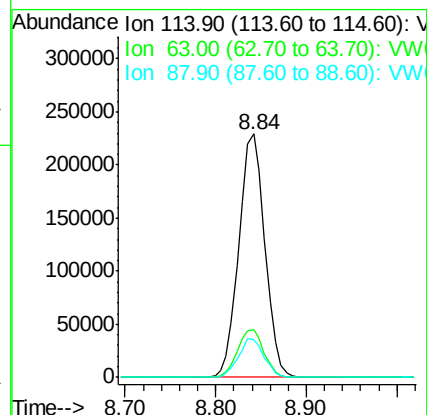
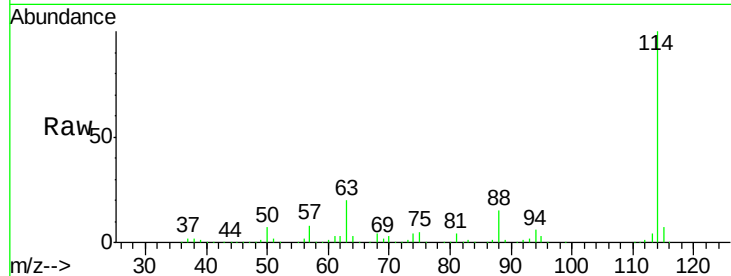
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Instrument :
 MSVOA_W
 ClientSampleId :
 982-S-3-(19)MSD

Tot Ion	Ratio	Resp	Lower	Upper
114	100	455971		
63	19.6		0.0	41.4
88	15.5		0.0	32.0

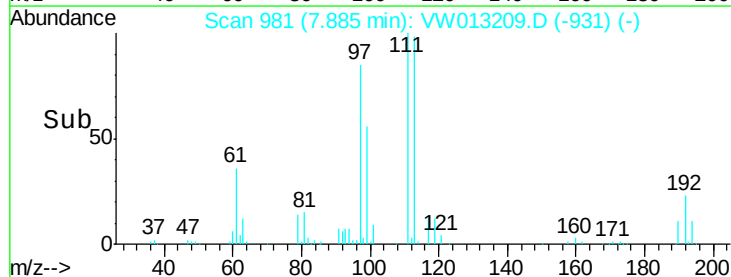
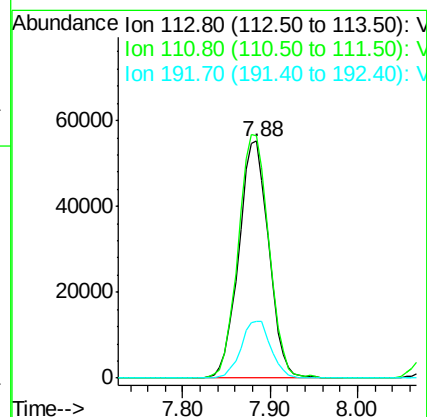
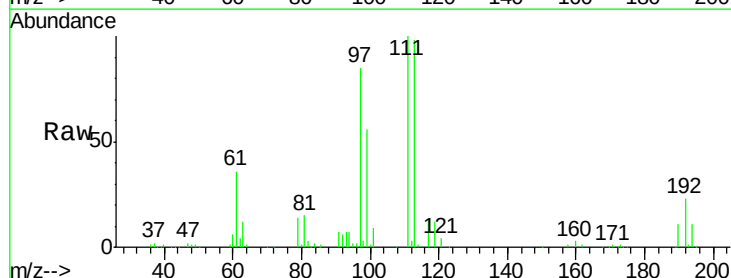
Manual Integrations
 APPROVED

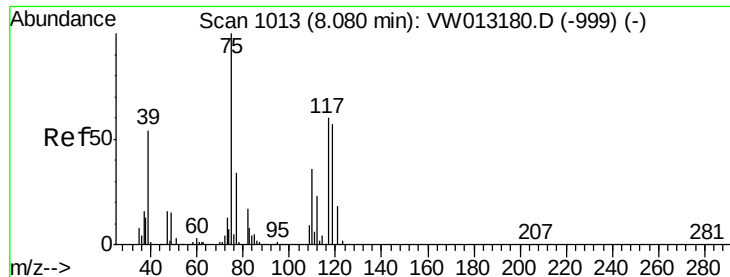
MMDadoda
 9/24/2019 5:29:05 AM



#35
 Dibromofluoromethane
 Concen: 52.528 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	131732		
111	105.2		81.9	122.9
192	24.0		19.1	28.7





#36

1,1-Dichloropropene

Concen: 36.203 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

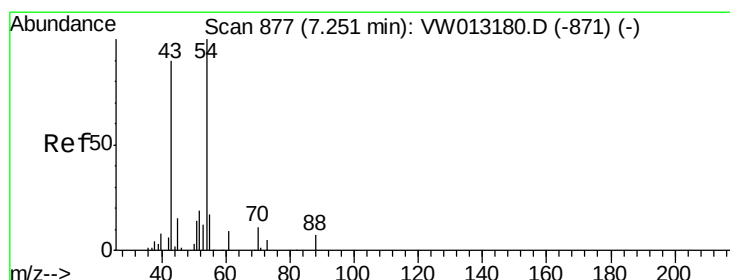
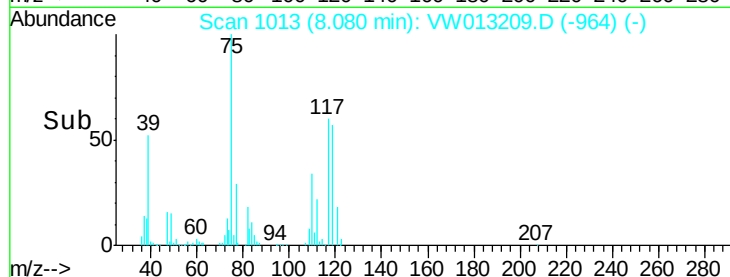
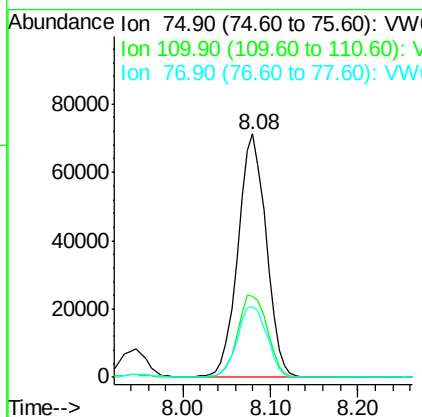
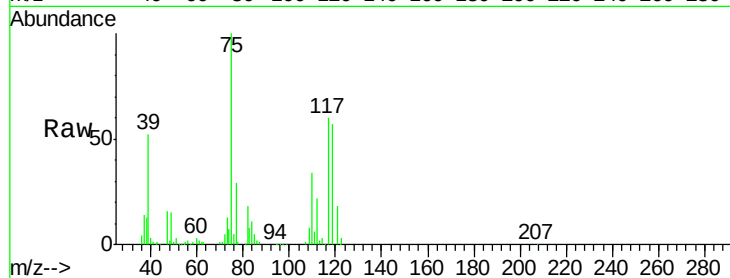
ClientSampleId :

982-S-3-(19)MSD

Tot Ion:	75	Resp:	159887
Ion Ratio	Lower	Upper	
75	100		
110	35.7	18.1	54.3
77	31.1	25.8	38.6

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:29:05 AM



#37

Ethyl Acetate

Concen: 44.894 ug/l

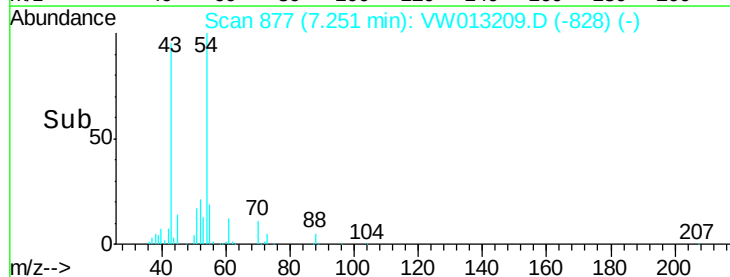
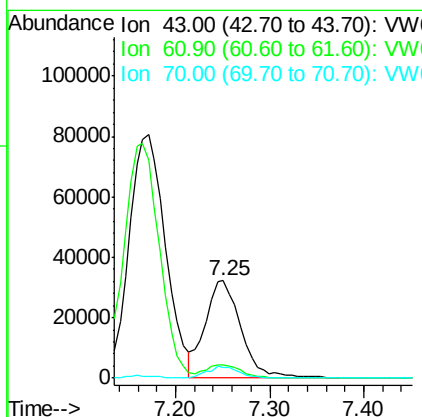
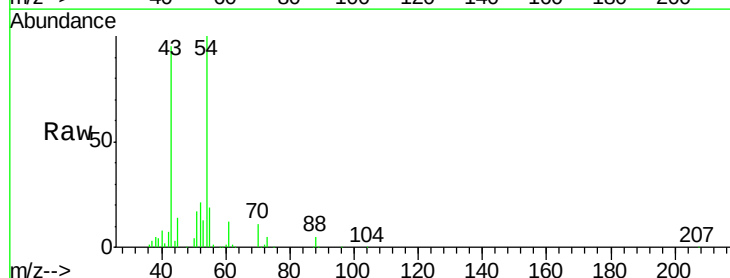
RT: 7.25 min Scan# 877

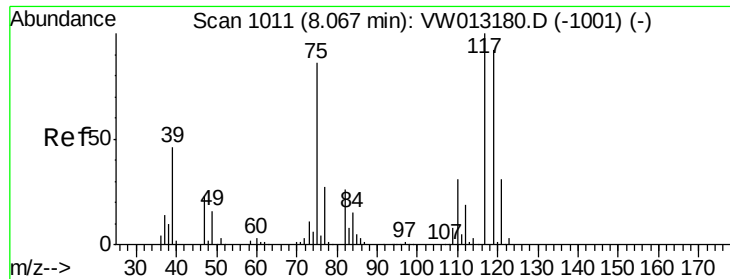
Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Tgt Ion:	43	Resp:	84266
Ion Ratio	Lower	Upper	
43	100		
61	13.8	10.9	16.3
70	10.3	8.2	12.2





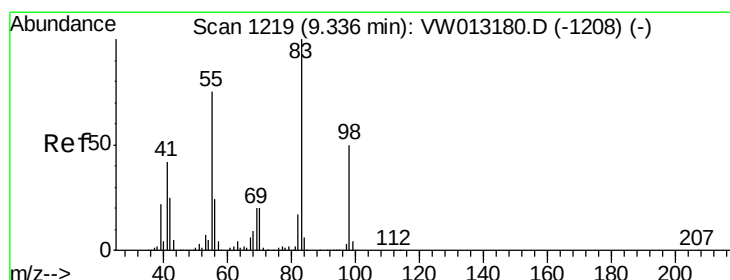
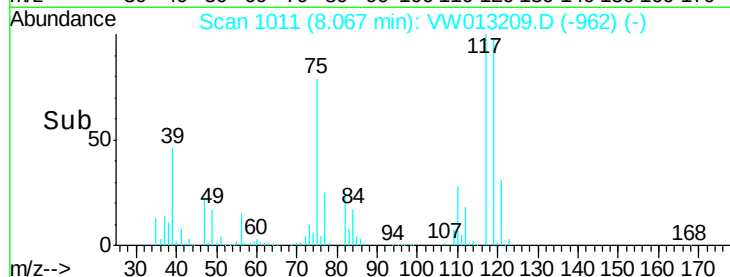
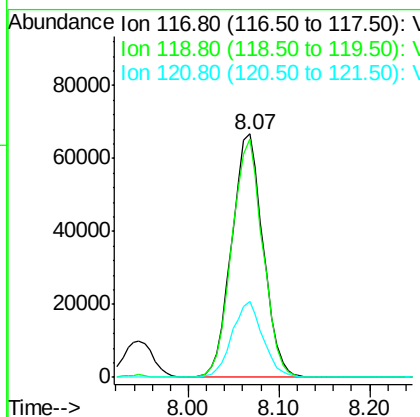
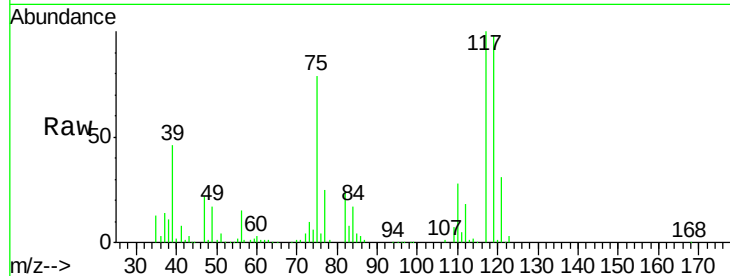
#38
Carbon Tetrachloride
Concen: 40.466 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion	Ratio	Lower	Upper
117	100		
119	98.2	73.5	110.3
121	31.2	25.0	37.6

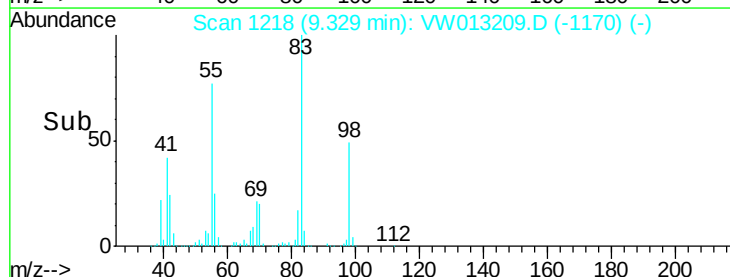
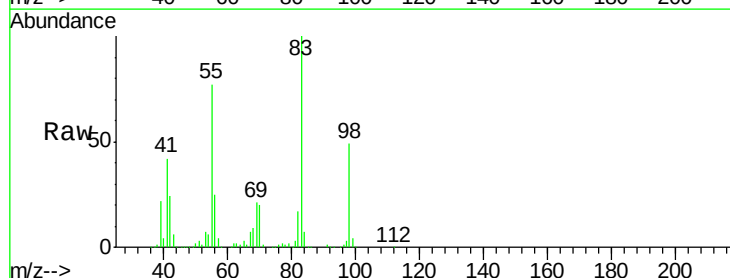
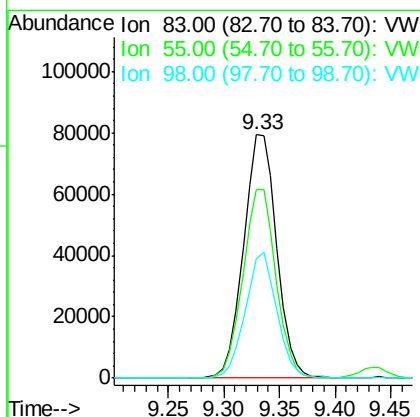
Manual Integrations
APPROVED

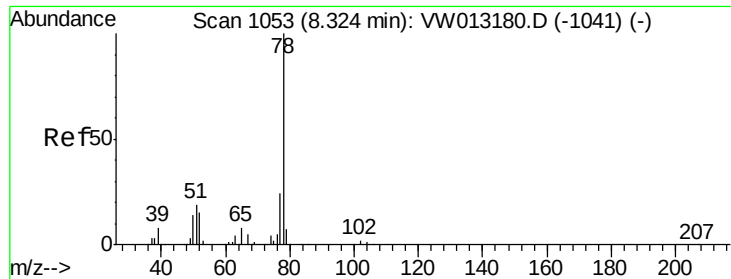
MMDadoda
9/24/2019 5:29:05 AM



#39
Methylcyclohexane
Concen: 28.984 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Lower	Upper
83	100		
55	77.4	60.4	90.6
98	48.9	40.0	60.0





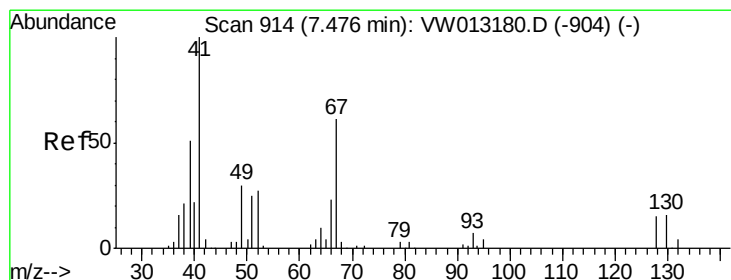
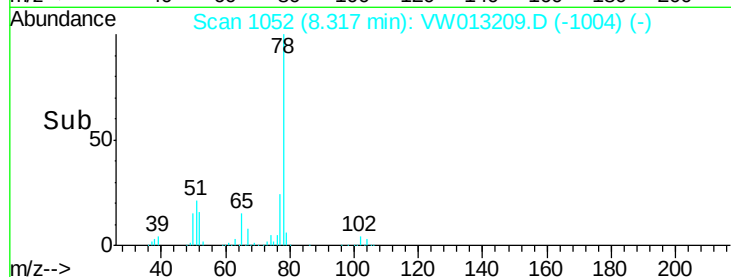
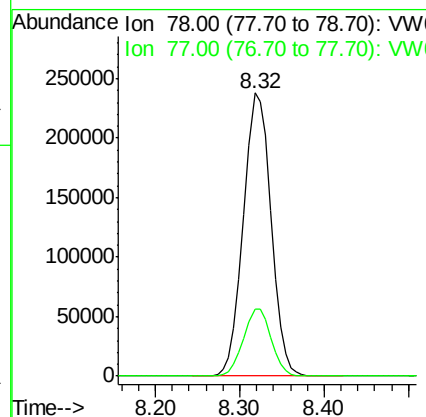
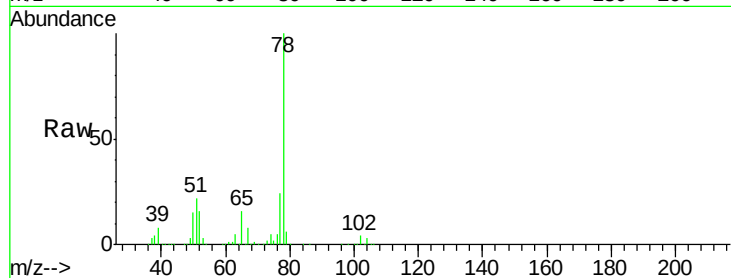
#40
Benzene
Concen: 42.795 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.1	28.7

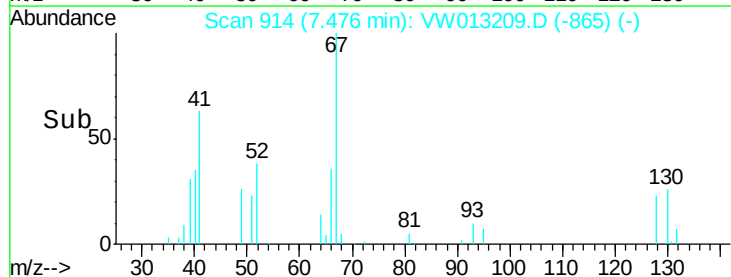
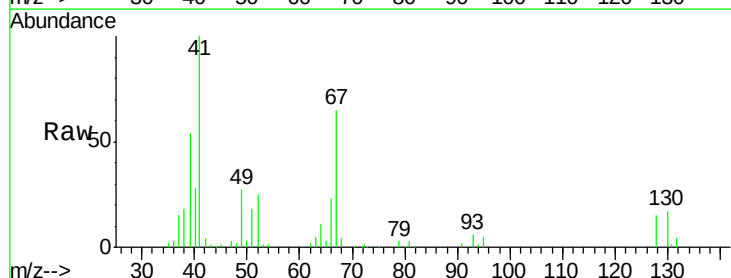
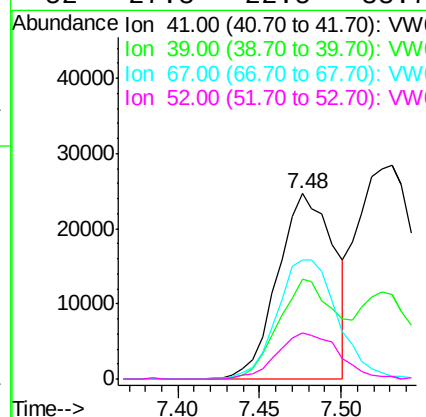
Manual Integrations
APPROVED

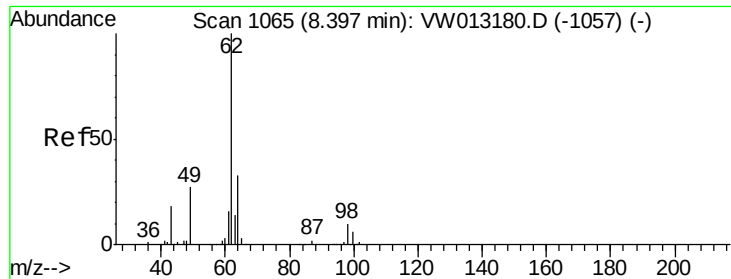
MMDadoda
9/24/2019 5:29:05 AM



#41
Methacrylonitrile
Concen: 53.003 ug/l
RT: 7.48 min Scan# 914
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Lower	Upper
41	100		
39	57.3	45.9	68.9
67	69.0	54.5	81.7
52	27.3	22.5	33.7





#42

1,2-Dichloroethane

Concen: 46.201 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

ClientSampleId :

982-S-3-(19)MSD

Tot Ion: 62 Resp: 152996

Ion Ratio Lower Upper

62 100

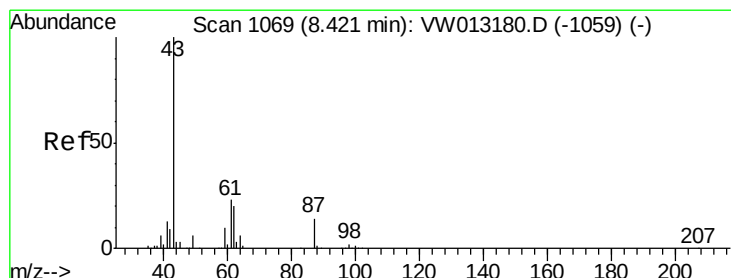
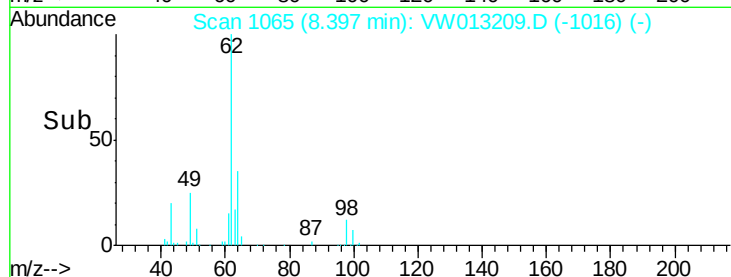
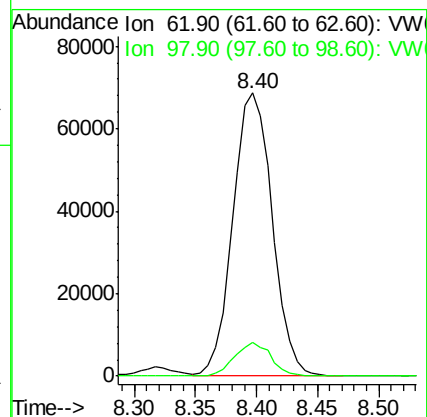
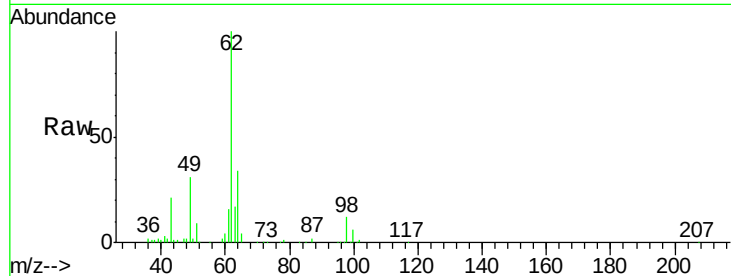
98 11.1 0.0 20.6

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:29:05 AM



#43

Isopropyl Acetate

Concen: 47.361 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

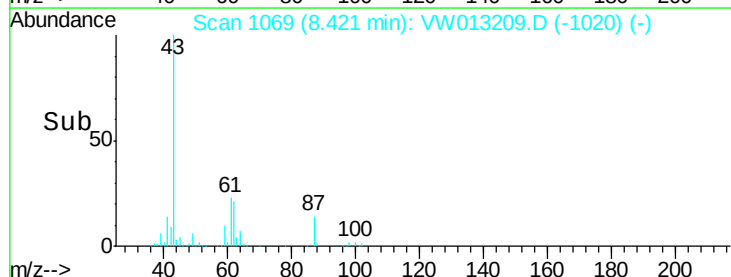
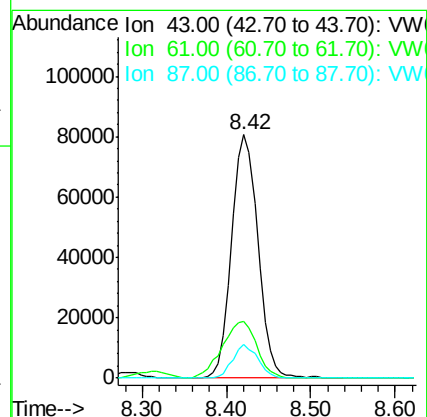
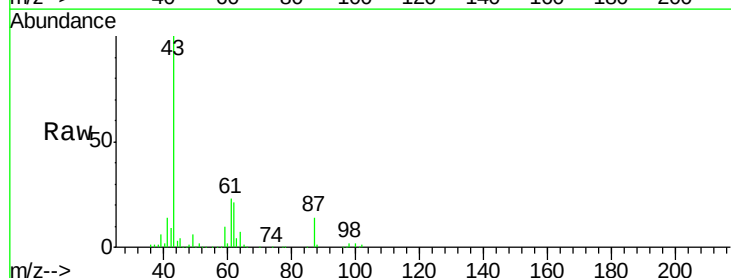
Tgt Ion: 43 Resp: 170378

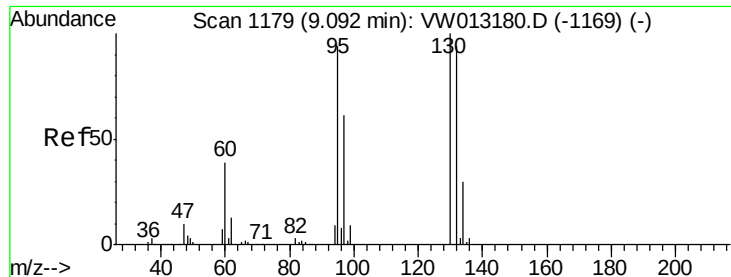
Ion Ratio Lower Upper

43 100

61 30.3 25.5 38.3

87 13.4 11.0 16.4





#44

Trichloroethene

Concen: 65.068 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

ClientSampleId :

982-S-3-(19)MSD

Tot Ion:130 Resp: 224891

Ion Ratio Lower Upper

130 100

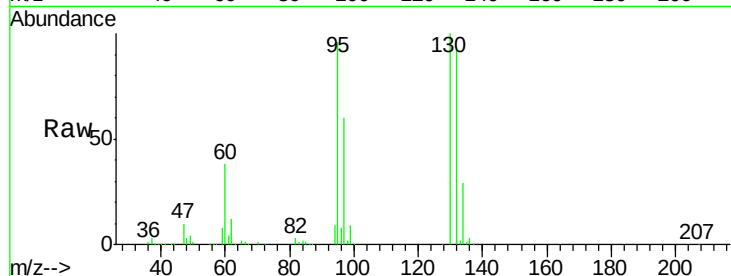
95 96.3 0.0 188.0

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:29:05 AM

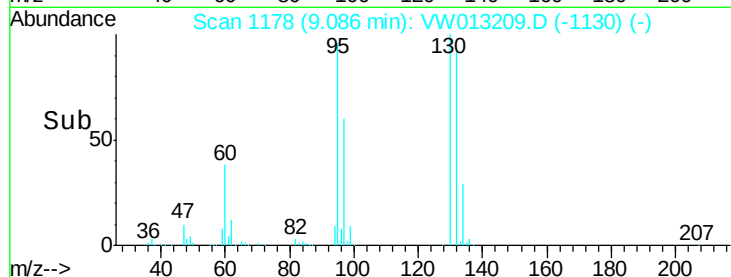


Abundance Ion 129.80 (129.50 to 130.50): V

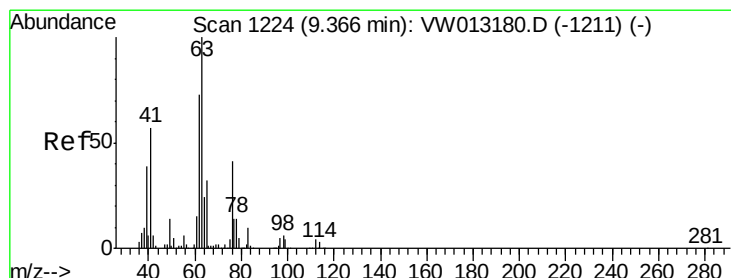
Ion 94.90 (94.60 to 95.60): VW

9.09

Time-->



Time-->



#45

1,2-Dichloropropane

Concen: 47.321 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013209.D

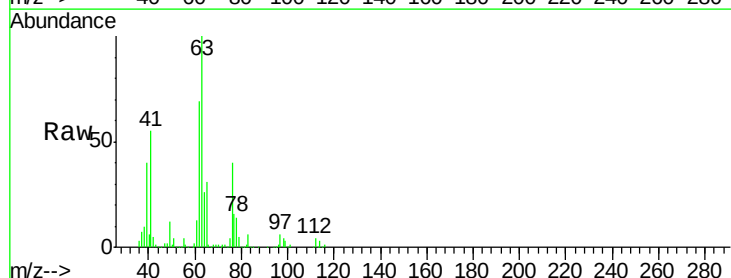
Acq: 21 Sep 2019 03:29

Tgt Ion: 63 Resp: 142319

Ion Ratio Lower Upper

63 100

65 31.0 25.3 37.9

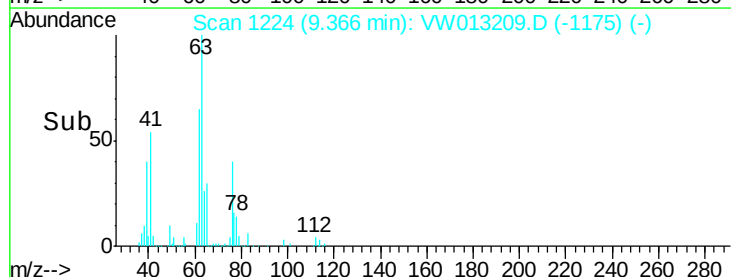


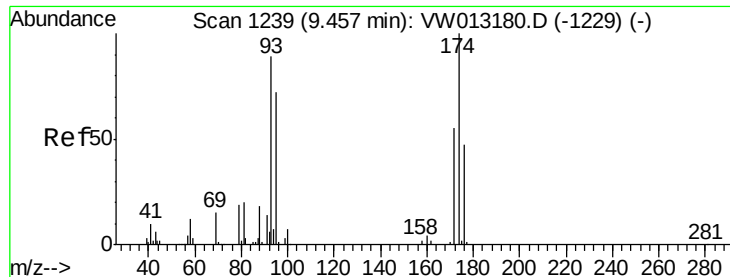
Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW

9.37

Time-->





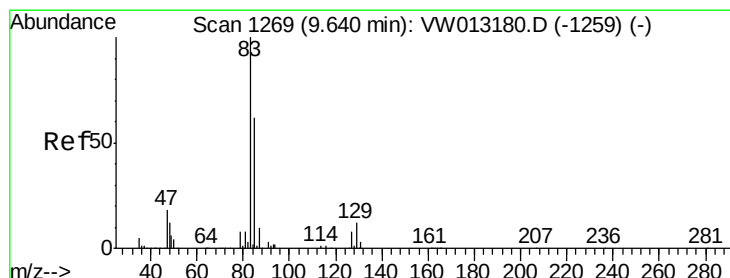
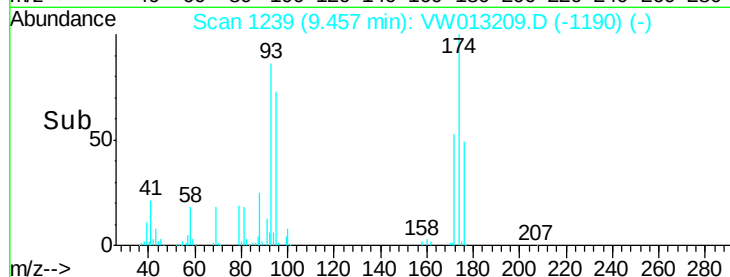
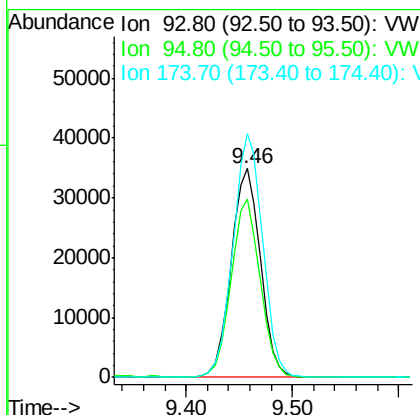
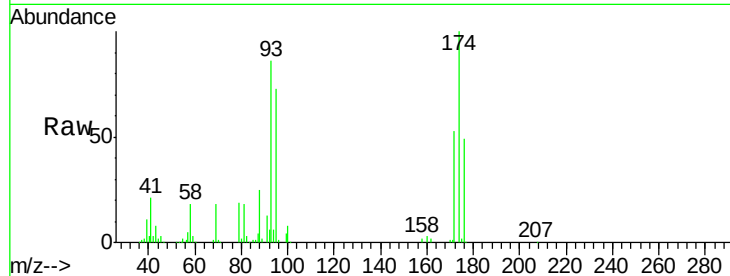
#46
Dibromomethane
Concen: 46.223 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
93	100		67491		
95	84.9	66.4	99.6		
174	118.1	93.0	139.6		

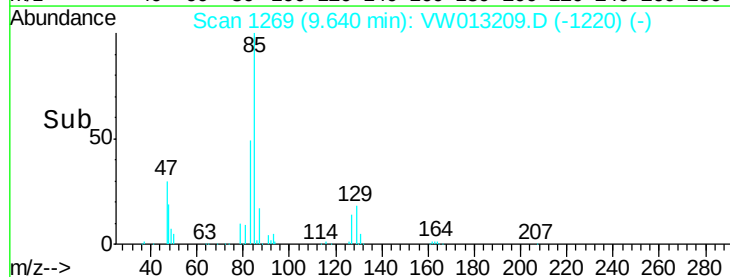
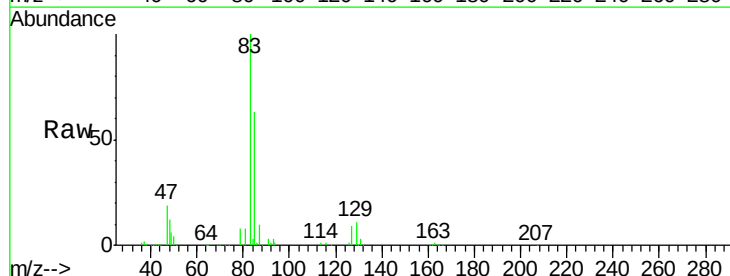
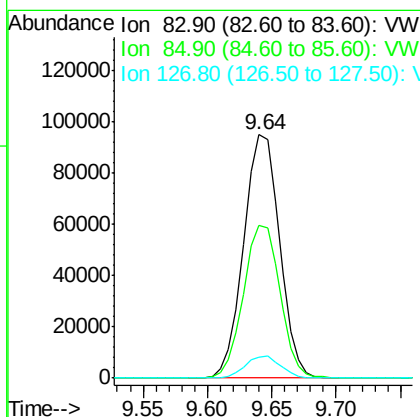
Manual Integrations
APPROVED

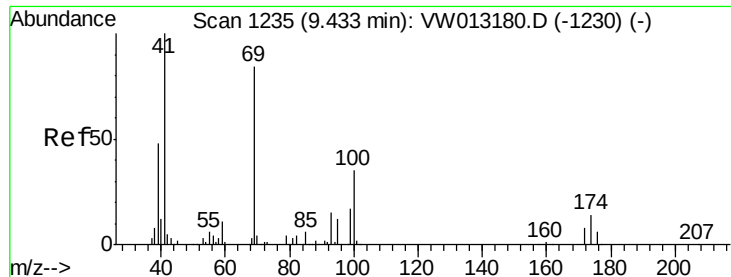
MMDadoda
9/24/2019 5:29:05 AM



#47
Bromodichloromethane
Concen: 49.301 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		183173		
85	62.6	49.4	74.2		
127	8.6	6.5	9.7		





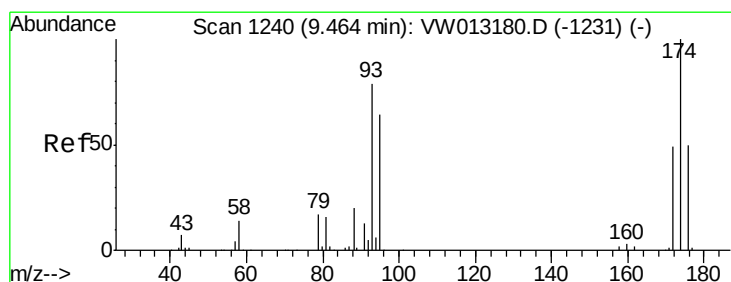
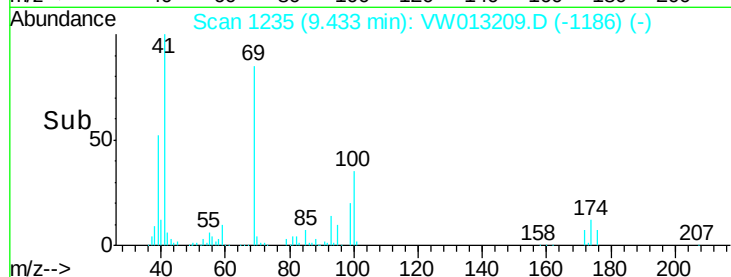
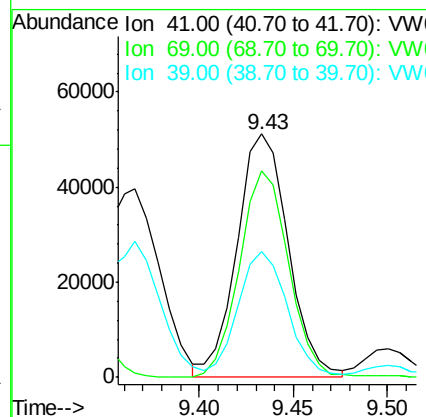
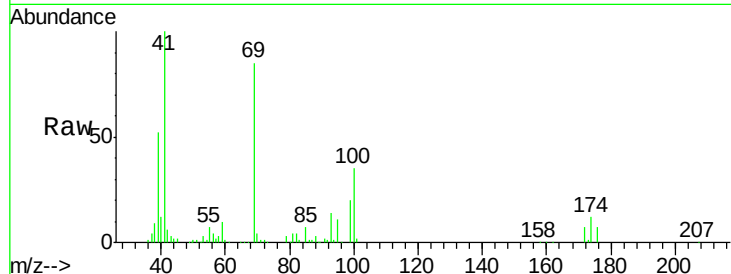
#48
Methvl methacrylate
Concen: 56.960 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion	Ratio	Resp	Lower	Upper
41	100	96352		
69	81.6		69.7	104.5
39	50.0		41.1	61.7

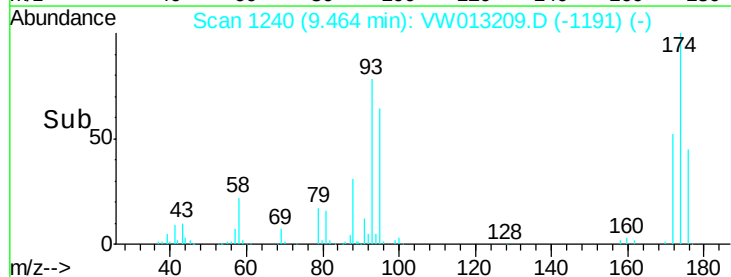
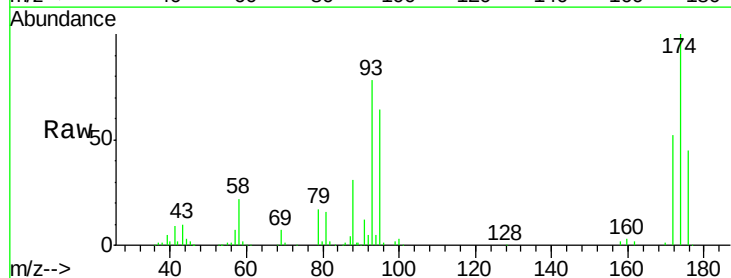
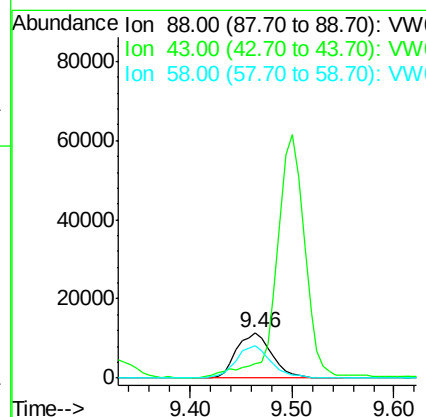
Manual Integrations
APPROVED

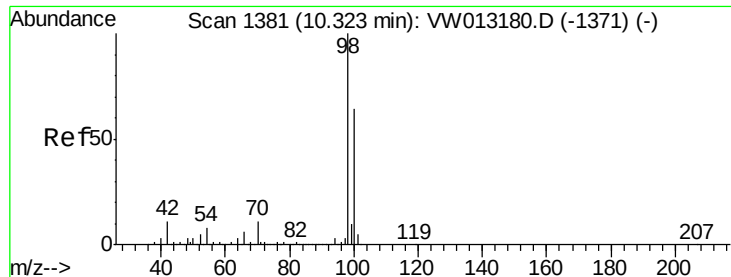
MMDadoda
9/24/2019 5:29:05 AM



#49
1,4-Dioxane
Concen: 1252.328 ug/l
RT: 9.46 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	27448		
43	0.0		0.0	0.0
58	71.6		65.4	98.0





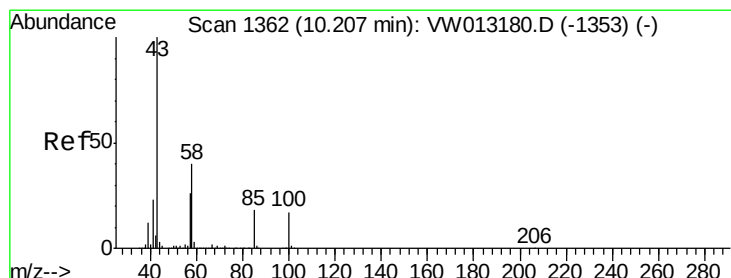
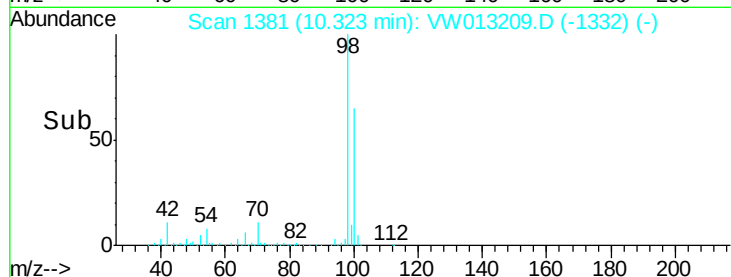
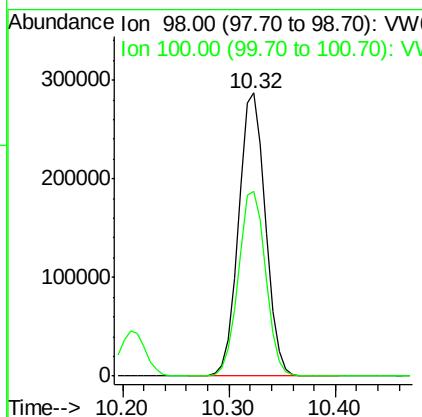
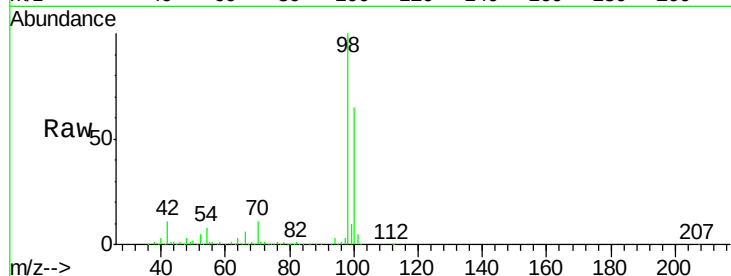
#50
Toluene-d8
Concen: 48.390 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion	Ion	Ratio	Lower	Upper
98	100			
100	66.5	52.9	79.3	

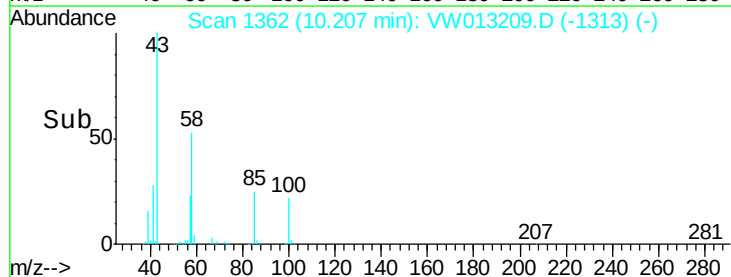
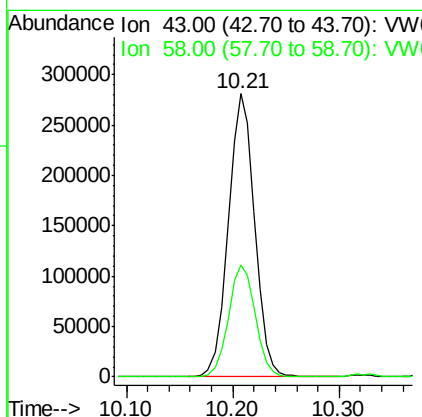
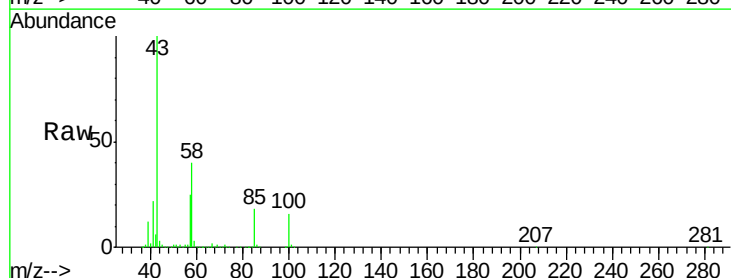
Manual Integrations
APPROVED

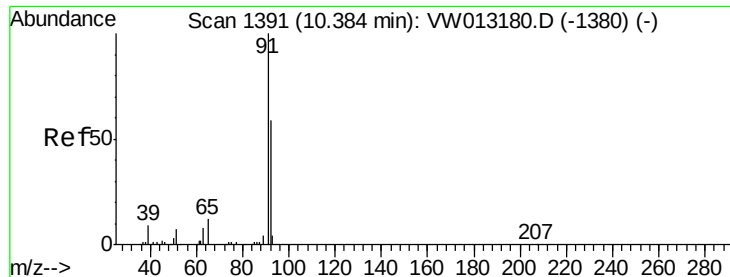
MMDadoda
9/24/2019 5:29:05 AM



#51
4-Methyl-2-Pentanone
Concen: 269.517 ug/l
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
58	40.1	31.7	47.5	





#52

Toluene

Concen: 41.666 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

ClientSampleId :

982-S-3-(19)MSD

Tot Ion: 92 Resp: 328952

Ion Ratio Lower Upper

92 100

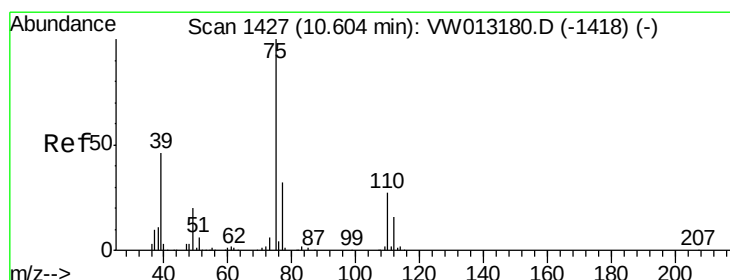
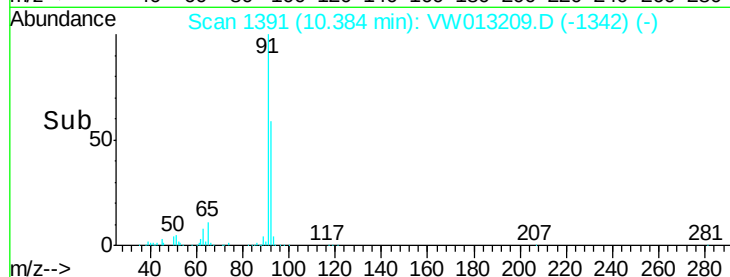
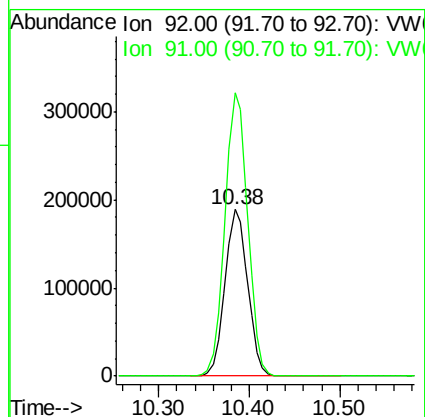
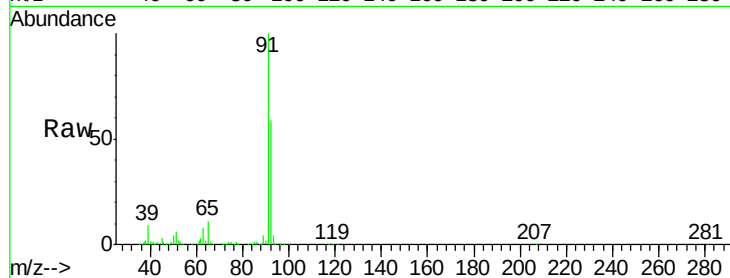
91 170.5 135.7 203.5

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:29:05 AM



#53

t-1,3-Dichloropropene

Concen: 41.772 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013209.D

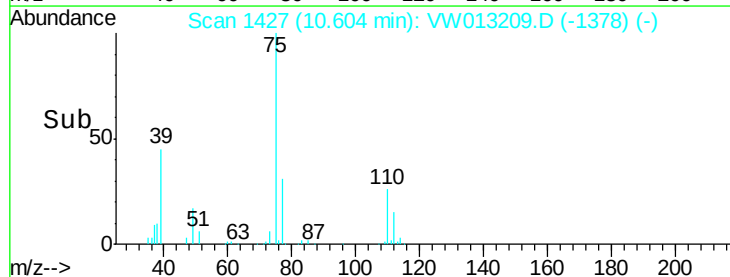
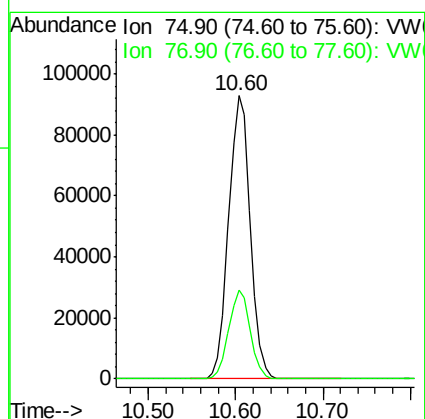
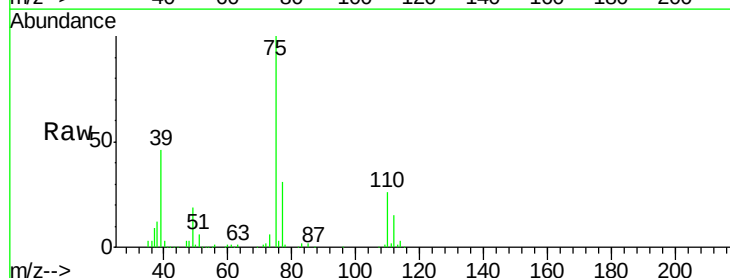
Acq: 21 Sep 2019 03:29

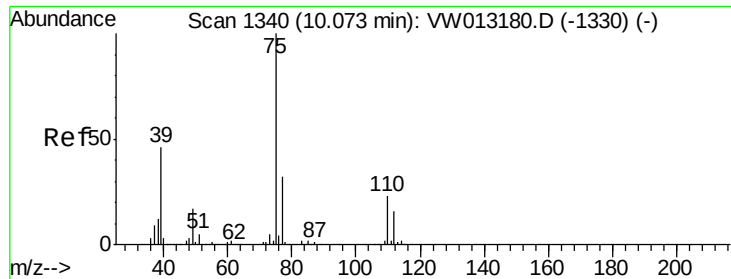
Tgt Ion: 75 Resp: 159449

Ion Ratio Lower Upper

75 100

77 31.2 25.5 38.3





#54

cis-1,3-Dichloropropene

Concen: 41.974 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

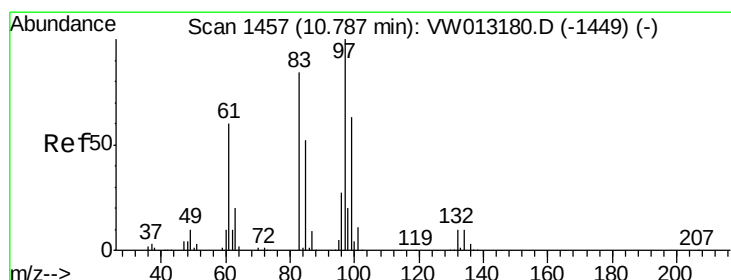
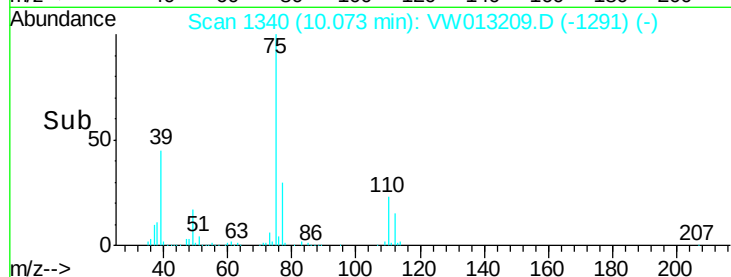
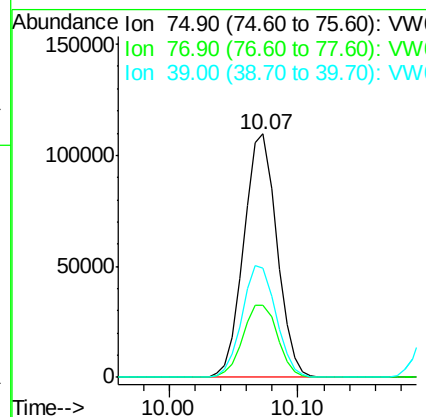
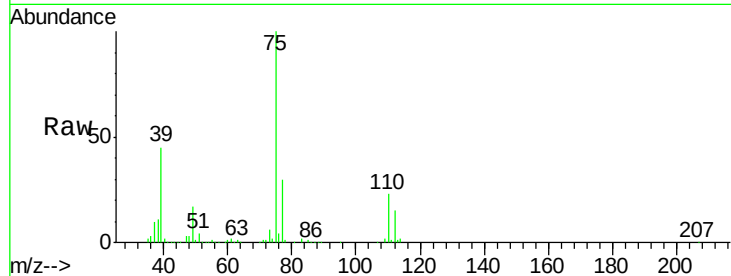
ClientSampleId :

982-S-3-(19)MSD

Tot Ion:	75	Resp:	194811
Ion	Ratio	Lower	Upper
75	100		
77	29.8	25.2	37.8
39	44.5	36.6	55.0

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:29:05 AM



#55

1,1,2-Trichloroethane

Concen: 50.112 ug/l

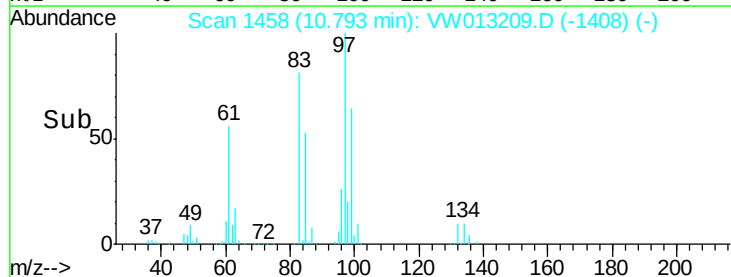
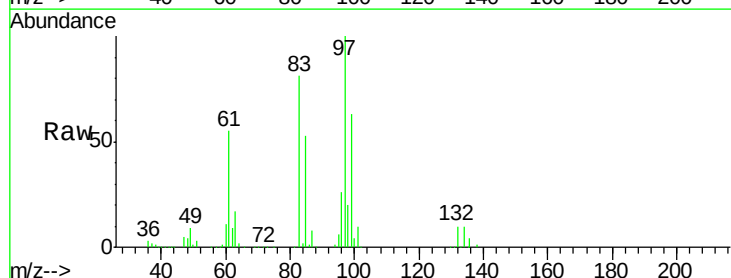
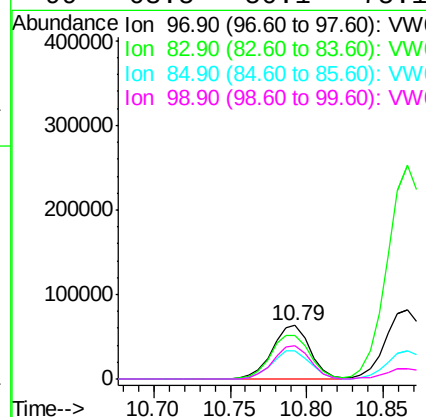
RT: 10.79 min Scan# 1458

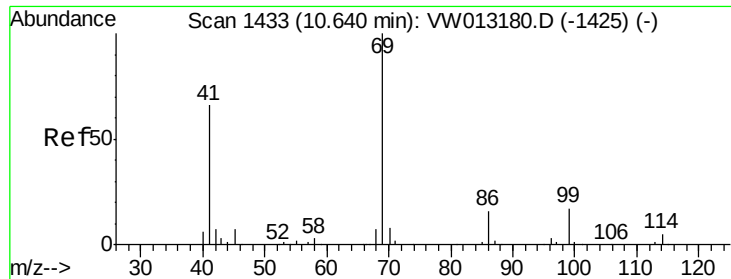
Delta R.T. 0.01 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Tgt Ion:	97	Resp:	109366
Ion	Ratio	Lower	Upper
97	100		
83	80.7	67.6	101.4
85	52.6	41.9	62.9
99	63.5	50.1	75.1





#56

Ethyl methacrylate

Concen: 44.445 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

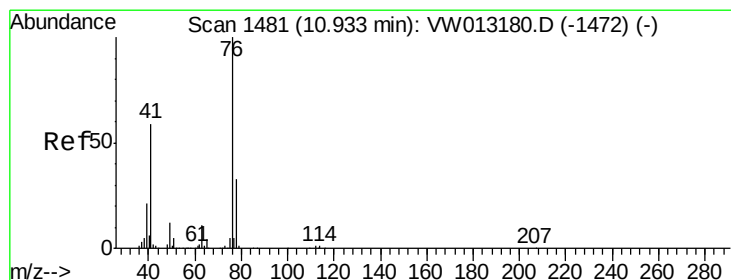
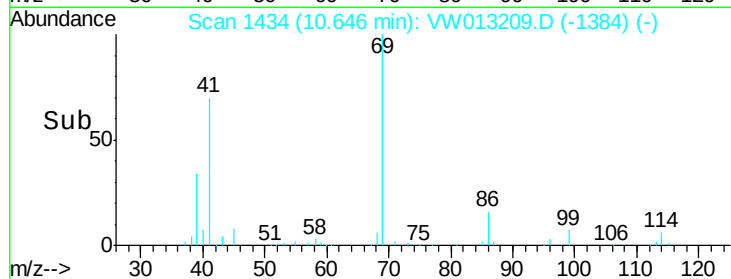
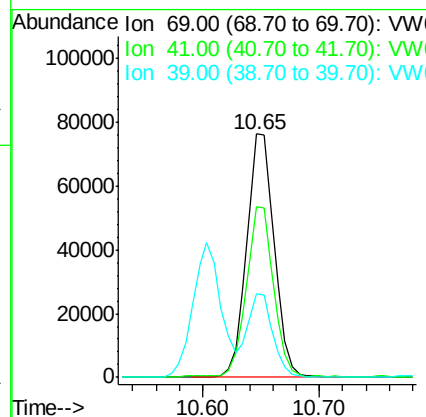
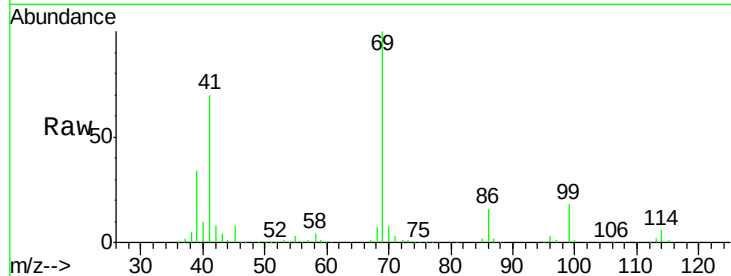
ClientSampleId :

982-S-3-(19)MSD

Tot Ion:	69	Resp:	126943
Ion	Ratio	Lower	Upper
69	100		
41	68.1	53.9	80.9
39	31.9	23.8	35.6

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:29:05 AM



#57

1,3-Dichloropropane

Concen: 44.999 ug/l

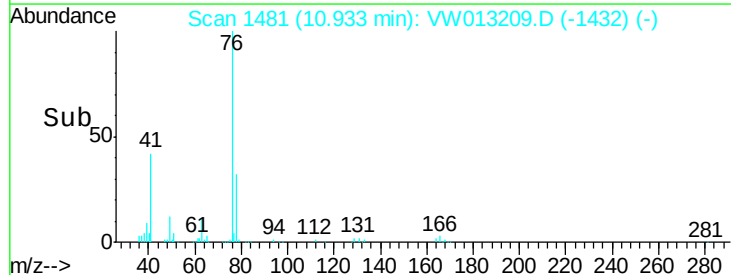
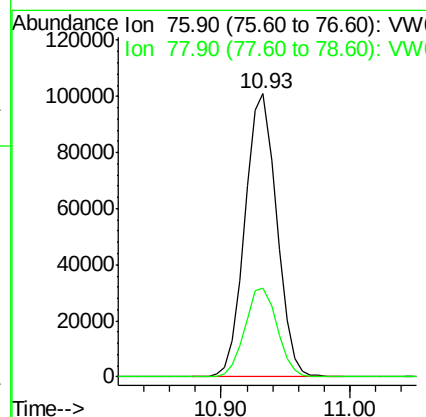
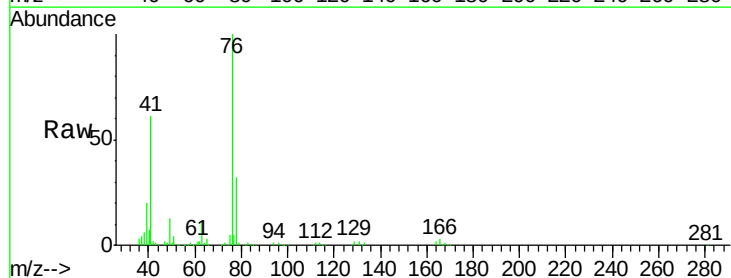
RT: 10.93 min Scan# 1481

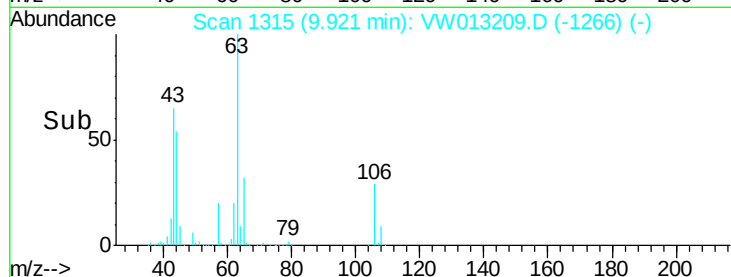
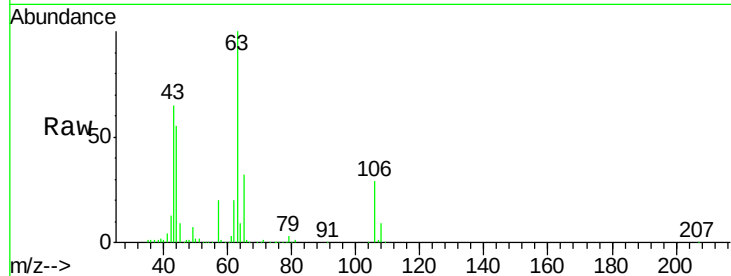
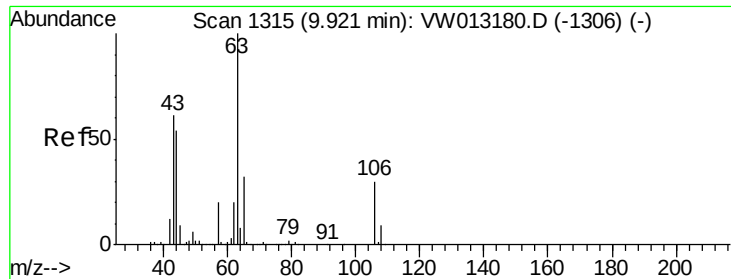
Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Tgt Ion:	76	Resp:	171375
Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.5	38.3





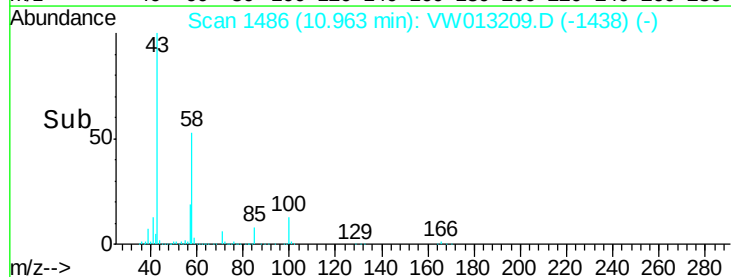
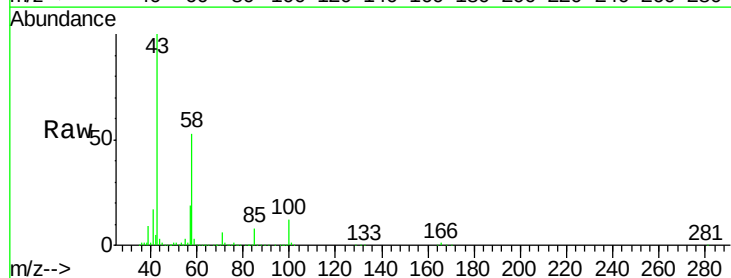
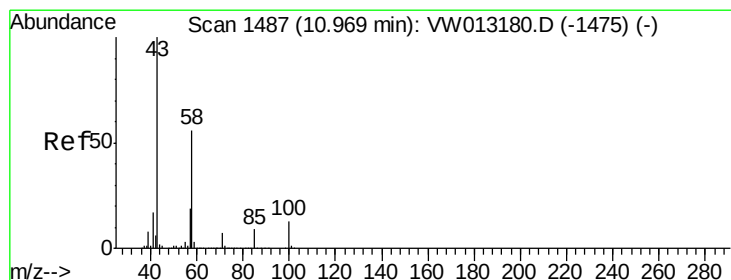
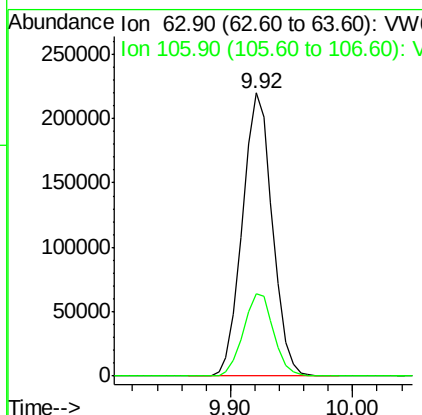
#58
2-Chloroethyl Vinyl ether
Concen: 283.418 ug/l
RT: 9.92 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tot Ion: 63 Resp: 374755
Ion Ratio Lower Upper
63 100
106 29.3 23.4 35.0

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

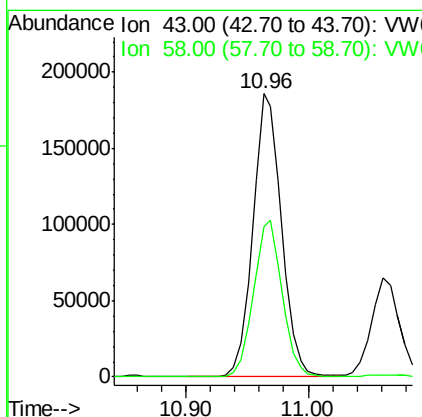
Manual Integrations
APPROVED

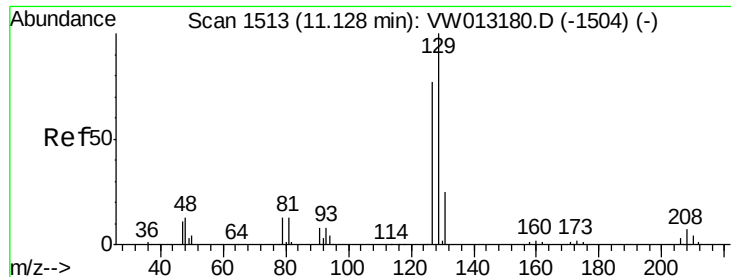
MMDadoda
9/24/2019 5:29:05 AM



#59
2-Hexanone
Concen: 243.610 ug/l
RT: 10.96 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion: 43 Resp: 302264
Ion Ratio Lower Upper
43 100
58 55.6 28.1 84.2





#60

Dibromochloromethane

Concen: 49.350 ug/l m

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

ClientSampleId :

982-S-3-(19)MSD

Tot Ion:129 Resp: 122294

Ion Ratio Lower Upper

129 100

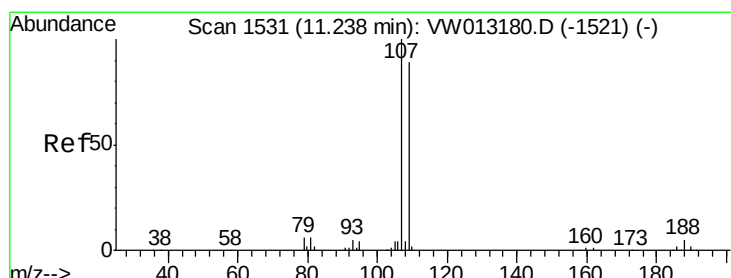
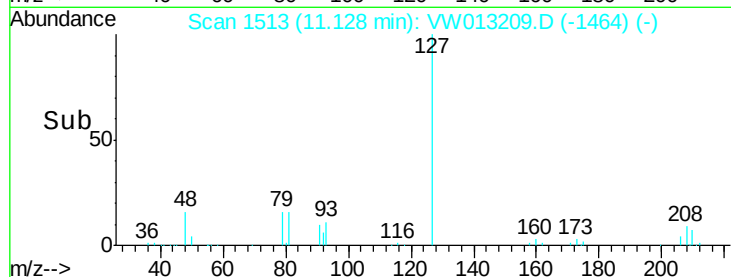
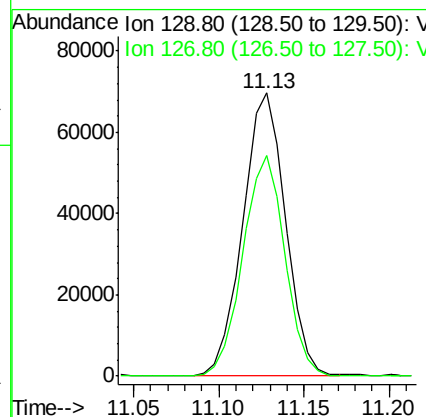
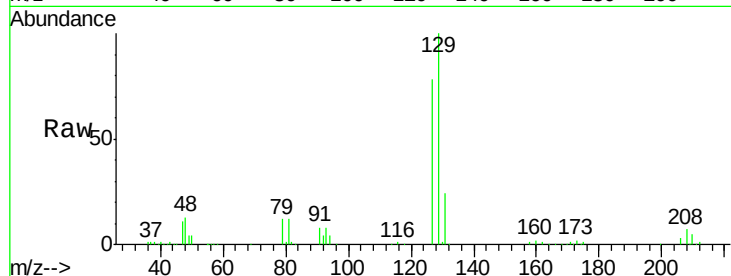
127 0.0 38.8 116.4#

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:29:05 AM



#61

1,2-Dibromoethane

Concen: 44.667 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. -0.01 min

Lab File: VW013209.D

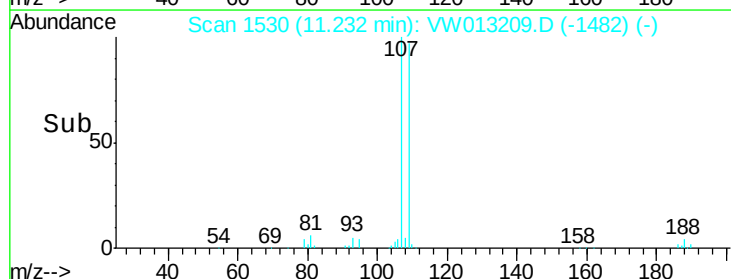
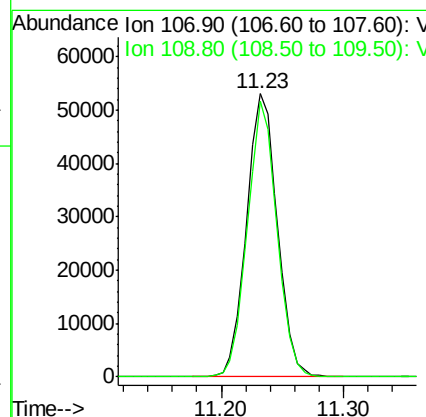
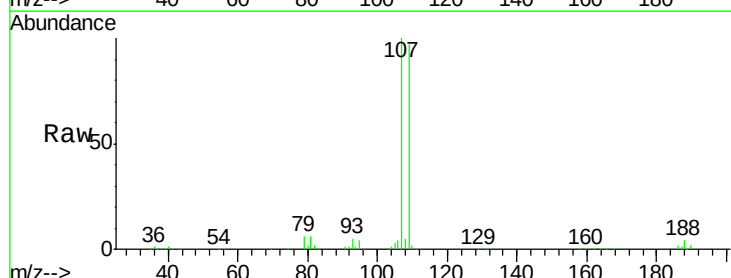
Acq: 21 Sep 2019 03:29

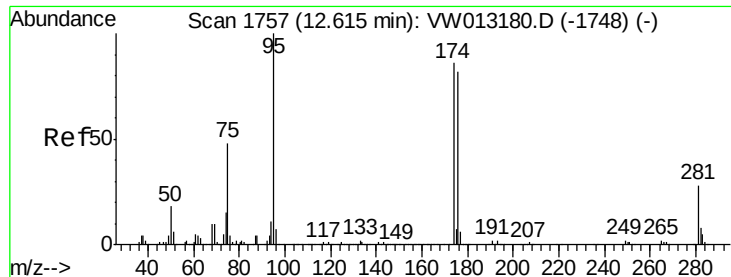
Tgt Ion:107 Resp: 92685

Ion Ratio Lower Upper

107 100

109 93.4 75.2 112.8





#62

4-Bromofluorobenzene

Concen: 35.149 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

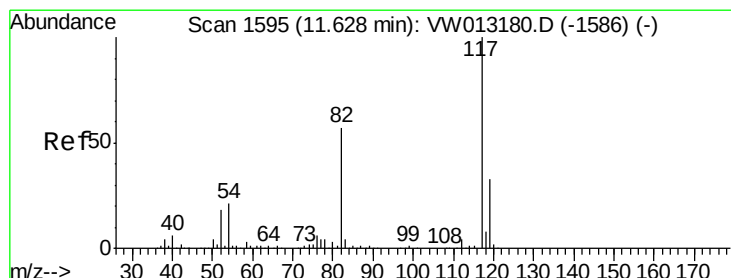
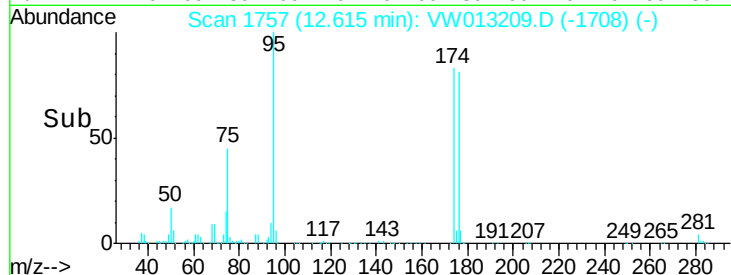
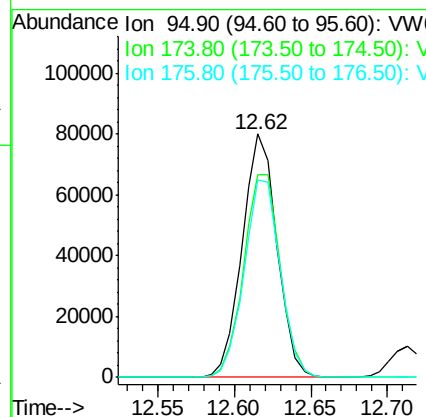
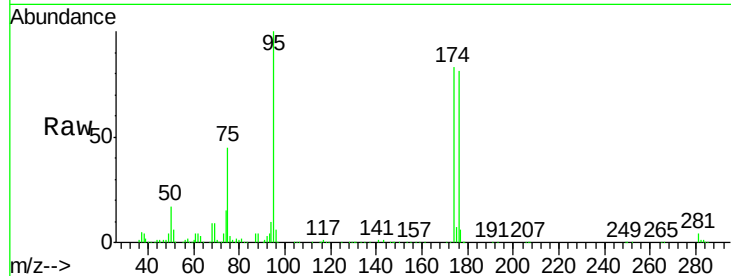
ClientSampleId :

982-S-3-(19)MSD

Tot Ion:	95	Resp:	126018
Ion Ratio	Lower	Upper	
95	100		
174	87.9	0.0	178.4
176	84.1	0.0	172.2

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:29:05 AM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

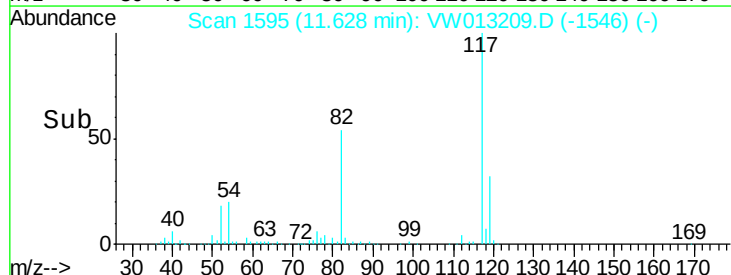
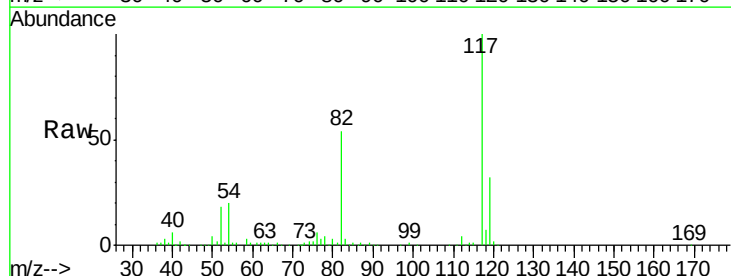
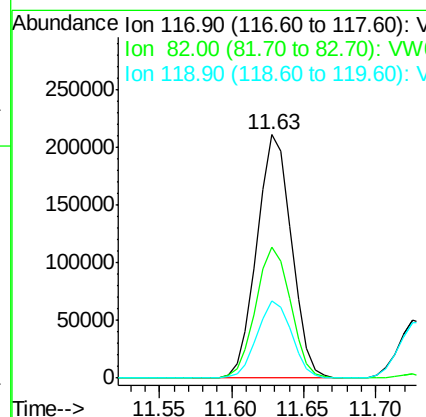
RT: 11.63 min Scan# 1595

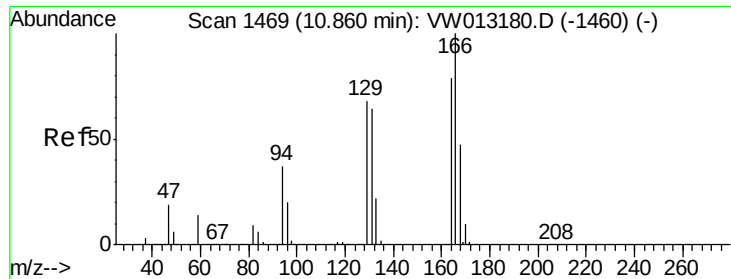
Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Tgt Ion:	117	Resp:	350395
Ion Ratio	Lower	Upper	
117	100		
82	54.0	45.9	68.9
119	31.8	26.2	39.2





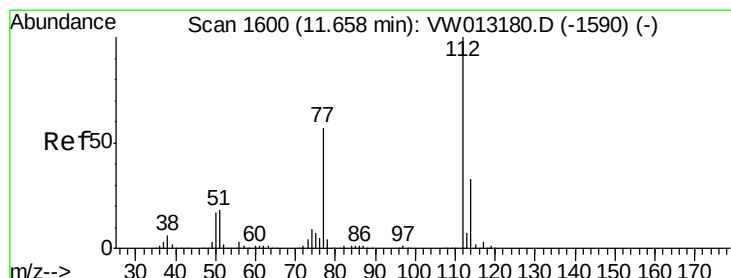
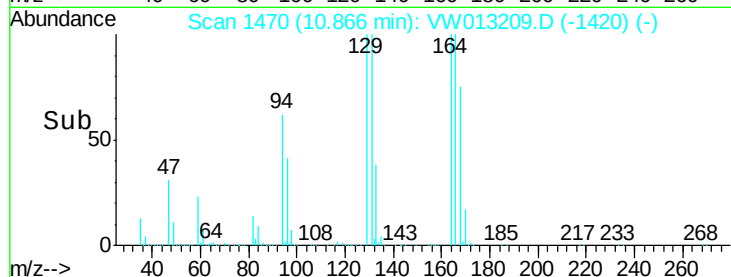
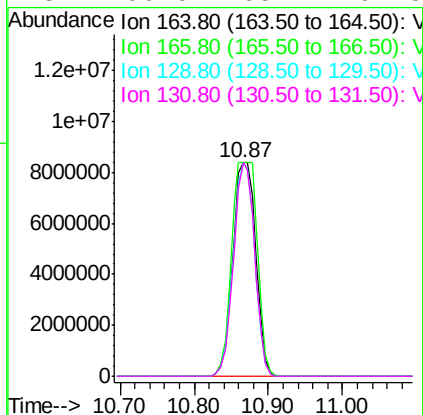
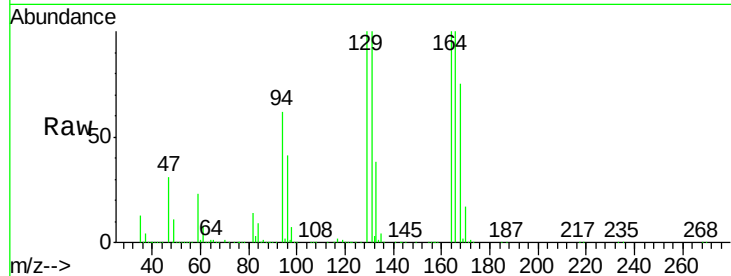
#64
Tetrachloroethene
Concen: 6797.178 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion:164 Resp:18070772
Ion Ratio Lower Upper
164 100
166 100.0 101.2 151.8#
129 100.0 68.8 103.2
131 100.0 65.2 97.8#

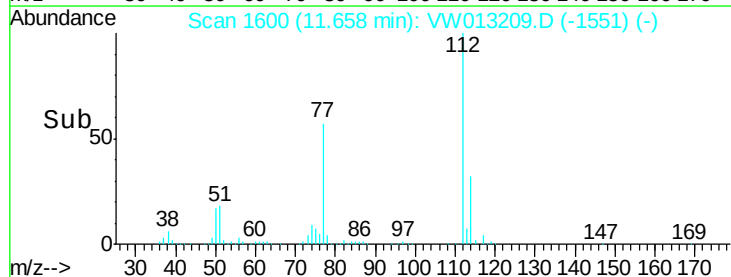
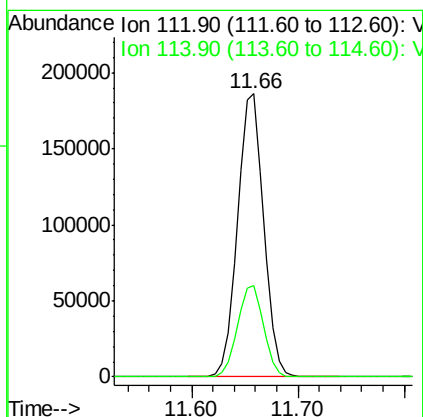
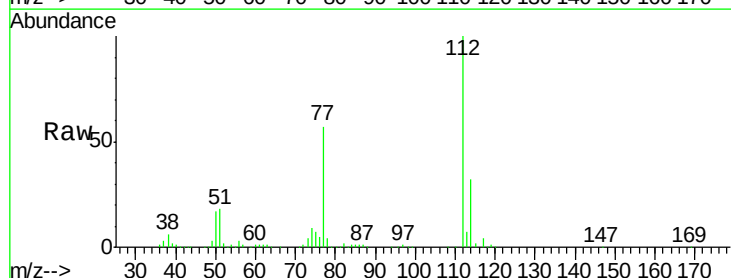
Manual Integrations
APPROVED

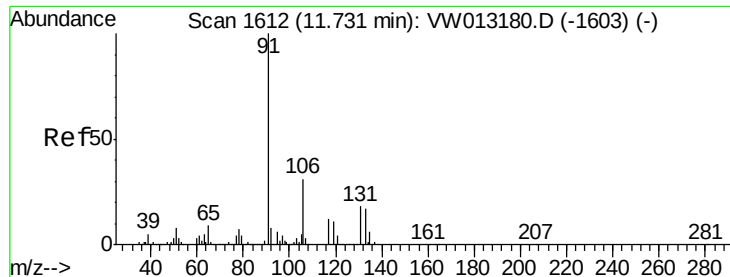
MMDadoda
9/24/2019 5:29:05 AM



#65
Chlorobenzene
Concen: 43.851 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion:112 Resp: 320857
Ion Ratio Lower Upper
112 100
114 32.1 26.5 39.7





#66

1,1,1,2-Tetrachloroethane

Concen: 52.292 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

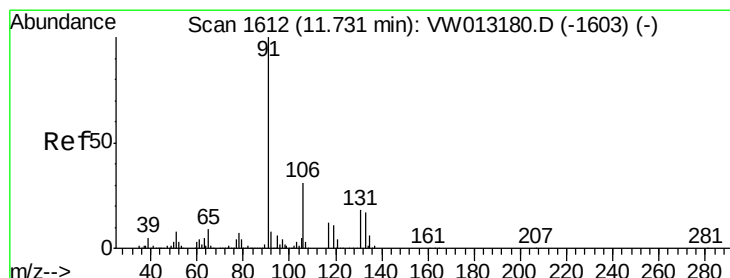
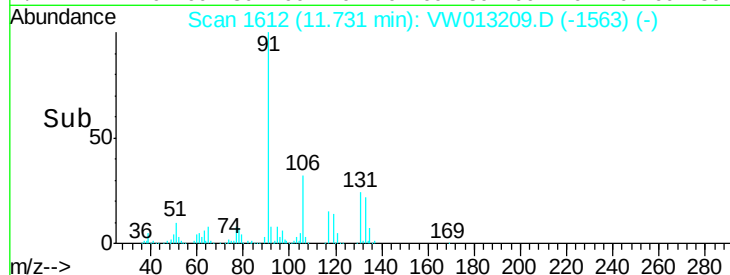
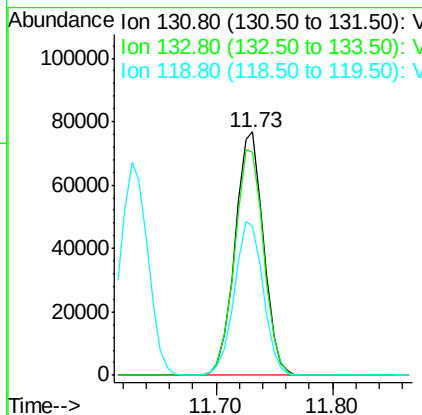
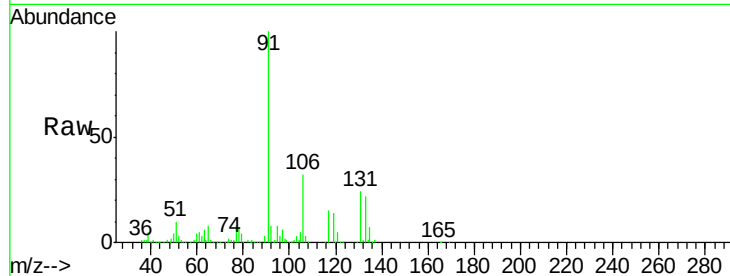
ClientSampleId :

982-S-3-(19)MSD

Tot Ion:	131	Resp:	130714
Ion Ratio	Lower	Upper	
131	100		
133	94.9	47.5	142.6
119	64.2	32.5	97.5

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:29:05 AM



#67

Ethyl Benzene

Concen: 39.818 ug/l

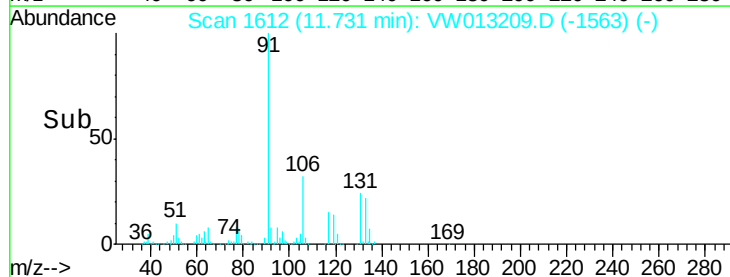
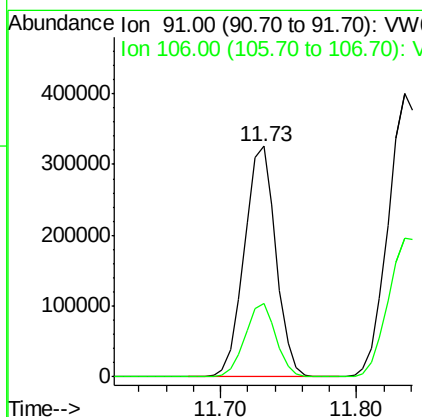
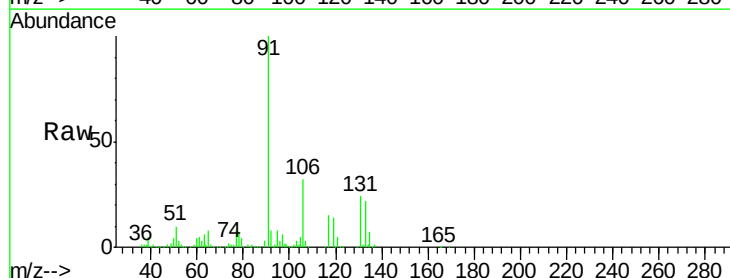
RT: 11.73 min Scan# 1612

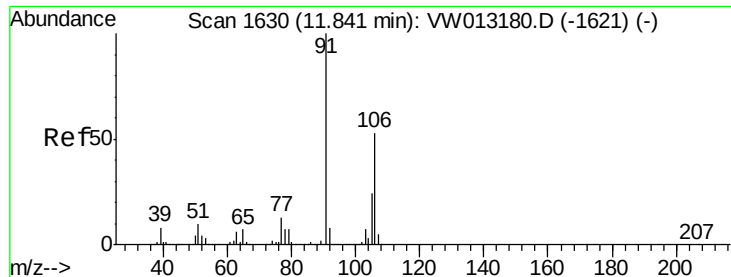
Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Tgt Ion:	91	Resp:	527887
Ion Ratio	Lower	Upper	
91	100		
106	32.1	24.9	37.3





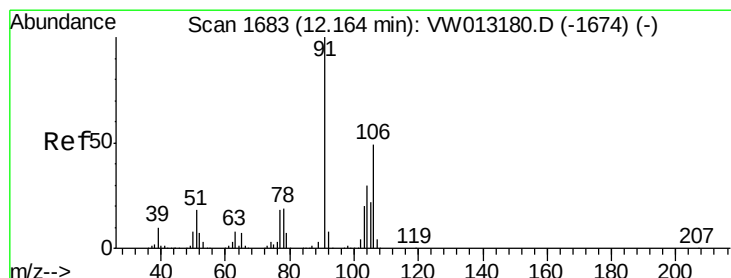
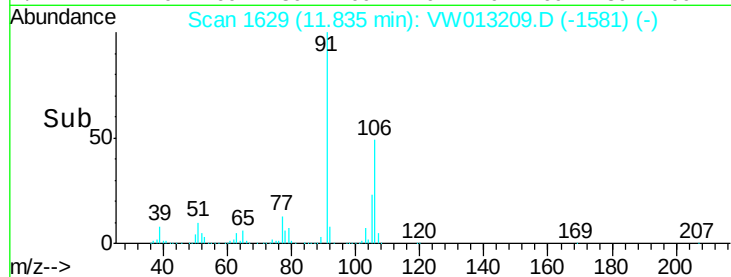
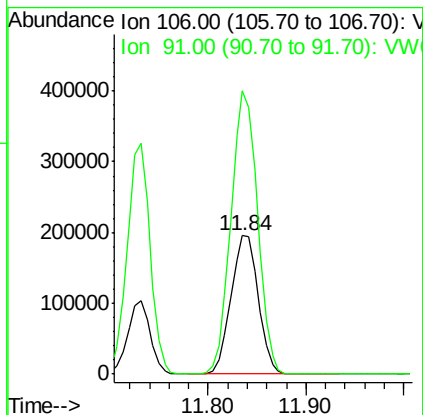
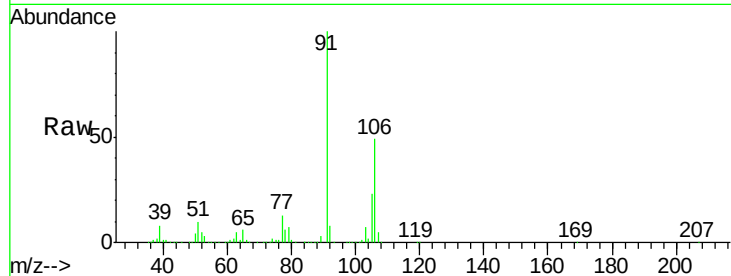
#68
m/p-Xylenes
Concen: 74.744 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	199.5	157.9	377600	236.9	

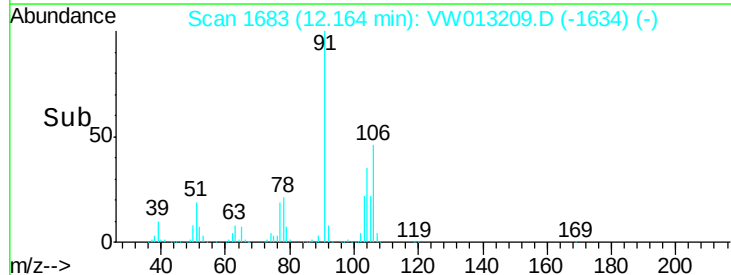
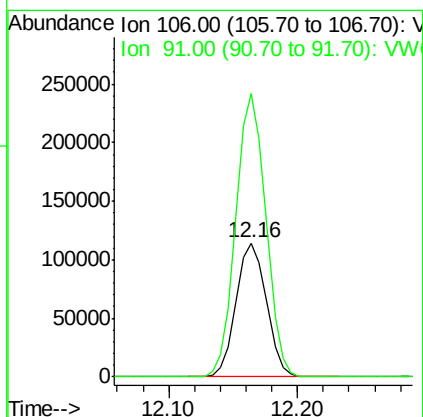
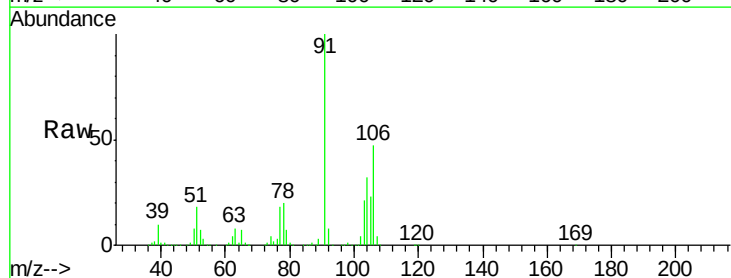
Manual Integrations
APPROVED

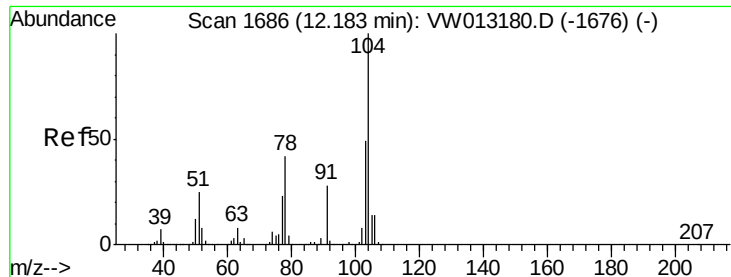
MMDadoda
9/24/2019 5:29:05 AM



#69
o-Xylene
Concen: 39.710 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	210.0	106.5	186513	319.5	





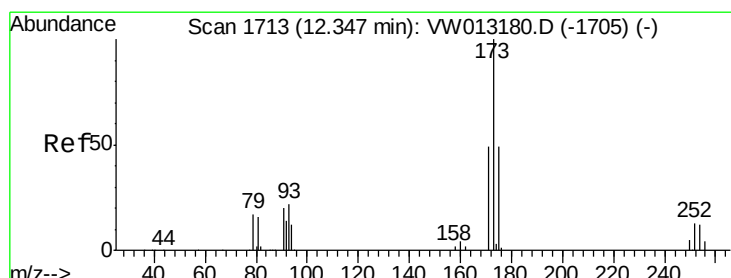
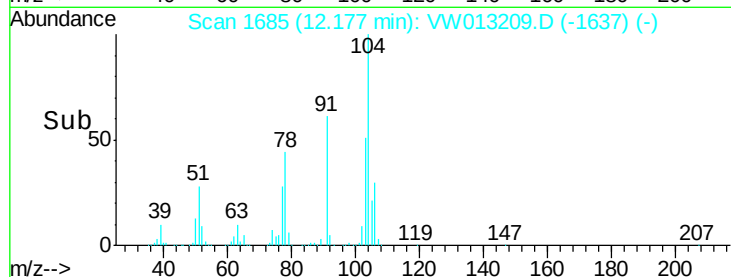
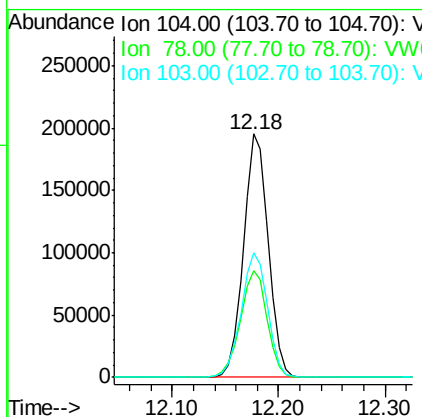
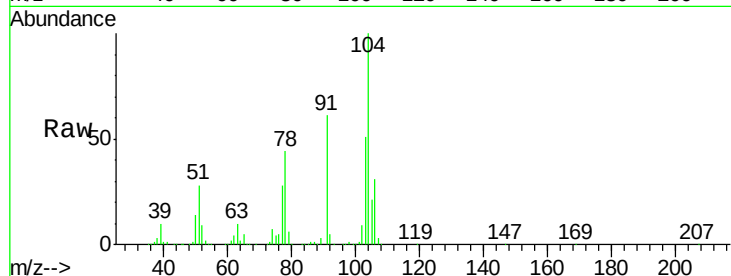
#70
Stvrene
Concen: 39.460 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion	Ratio	Resp	Lower	Upper
104	100	318193		
78	47.3		38.4	57.6
103	54.8		43.3	64.9

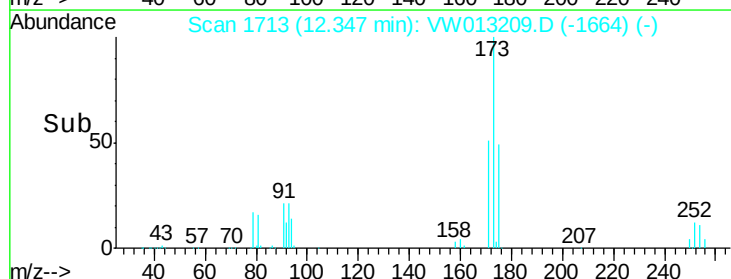
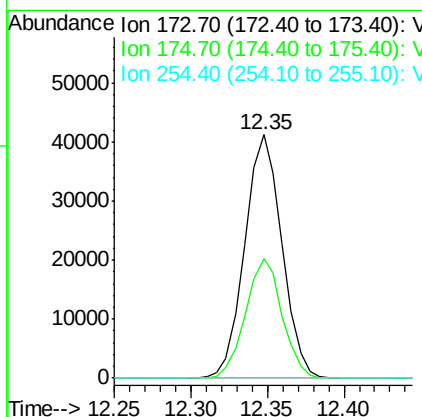
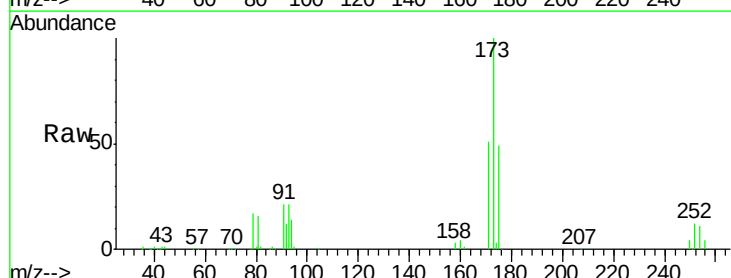
Manual Integrations
APPROVED

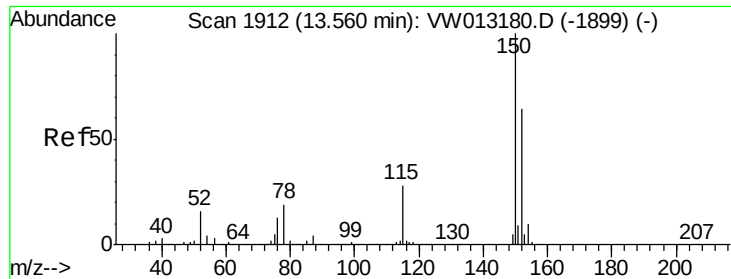
MMDadoda
9/24/2019 5:29:05 AM



#71
Bromoform
Concen: 52.453 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	69270		
175	48.5		24.3	73.0
254	0.0		0.1	0.1#





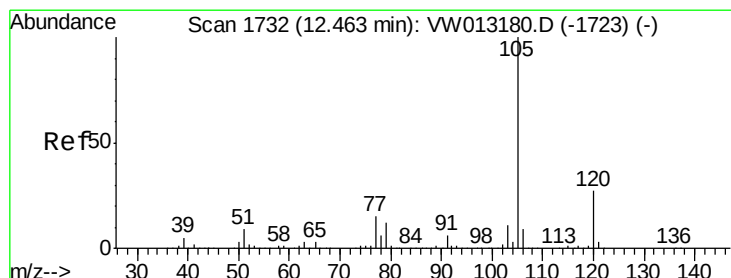
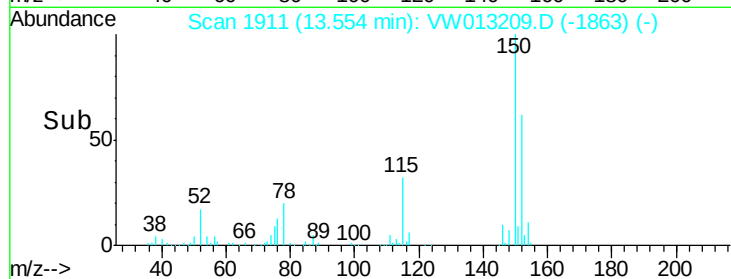
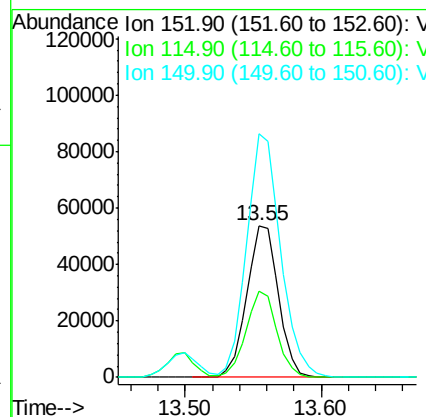
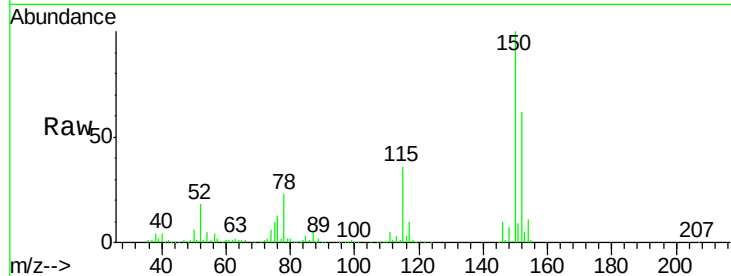
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.55 min Scan# 1911
 Delta R.T. -0.01 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Instrument :
 MSVOA_W
 ClientSampleId :
 982-S-3-(19)MSD

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.2	27.3	81.9
150	172.7	0.0	349.0

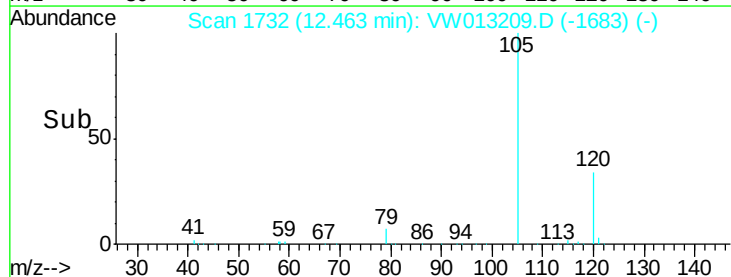
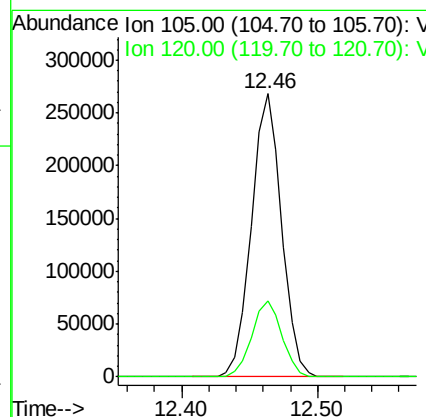
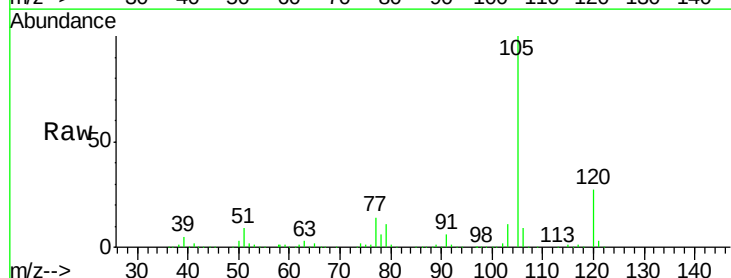
Manual Integrations
 APPROVED

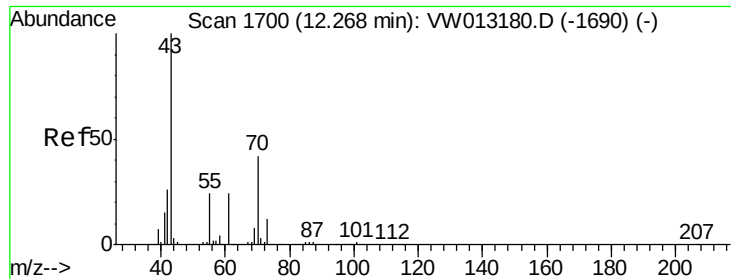
MMDadoda
 9/24/2019 5:29:05 AM



#73
 Isopropylbenzene
 Concen: 64.357 ug/l
 RT: 12.46 min Scan# 1732
 Delta R.T. 0.00 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.4	40.1





#74

N-amvl acetate

Concen: 55.129 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.01 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

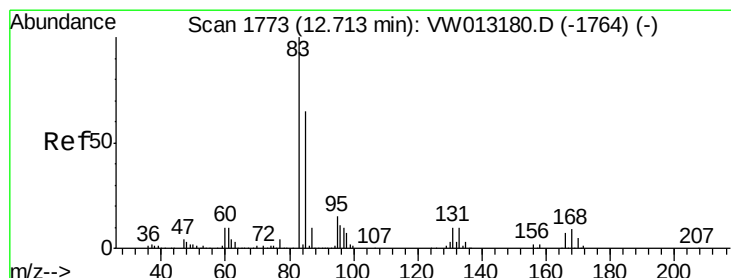
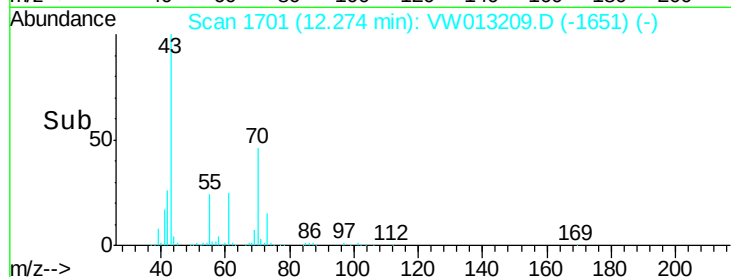
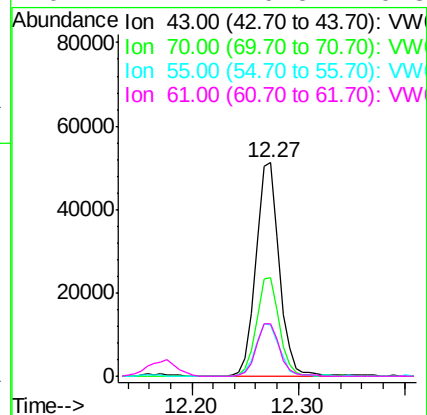
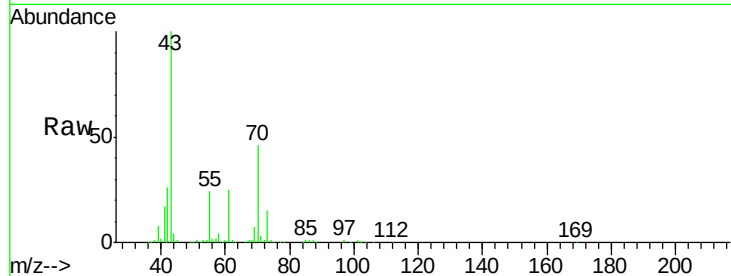
ClientSampleId :

982-S-3-(19)MSD

Tot Ion:	43	Resp:	79035
Ion	Ratio	Lower	Upper
43	100		
70	45.2	35.1	52.7
55	25.4	19.9	29.9
61	24.7	19.5	29.3

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:29:05 AM



#75

1,1,2,2-Tetrachloroethane

Concen: 92.614 ug/l

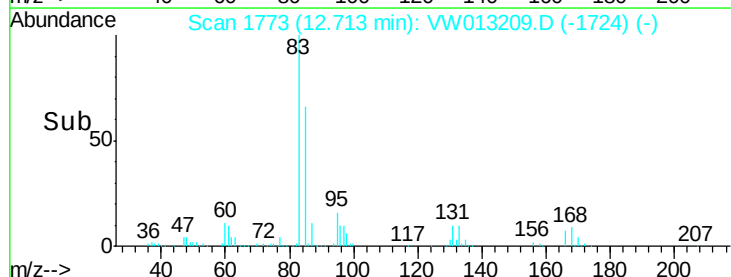
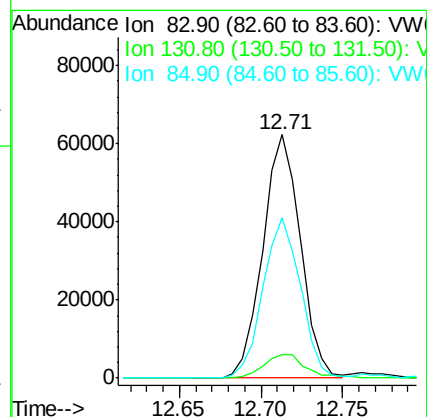
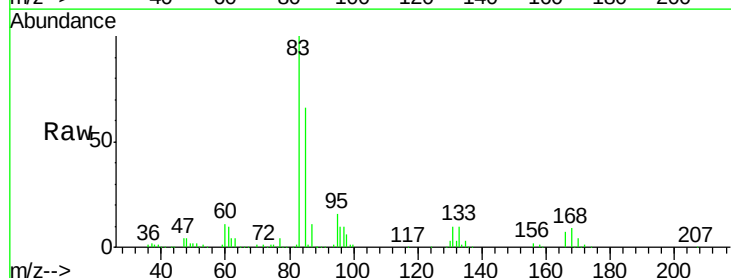
RT: 12.71 min Scan# 1773

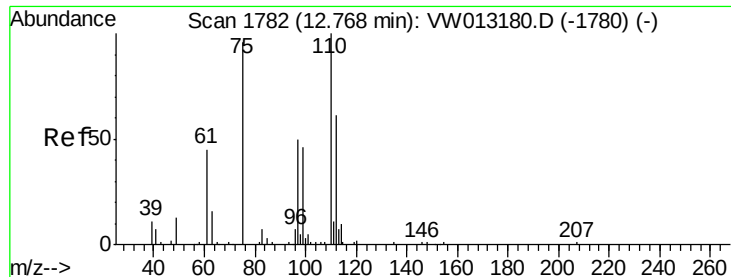
Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Tgt Ion:	83	Resp:	100070
Ion	Ratio	Lower	Upper
83	100		
131	10.7	5.4	16.2
85	65.8	31.9	95.9





#76

1,2,3-Trichloropropane

Concen: 89.032 ug/l m

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

ClientSampleId :

982-S-3-(19)MSD

Tot Ion: 75 Resp: 68767

Ion Ratio Lower Upper

75 100

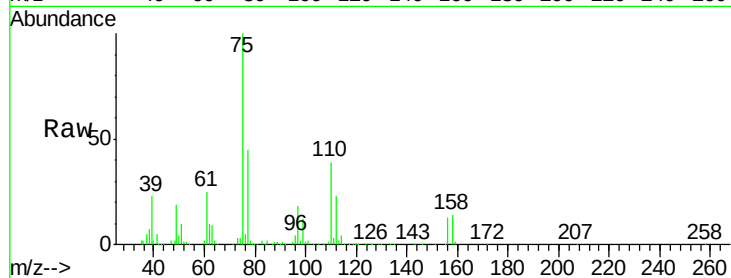
77 0.0 0.0 0.0

Manual Integrations

APPROVED

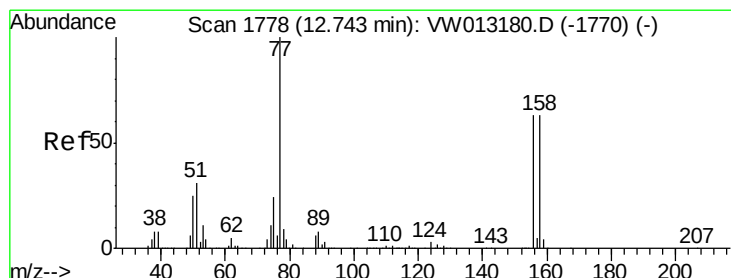
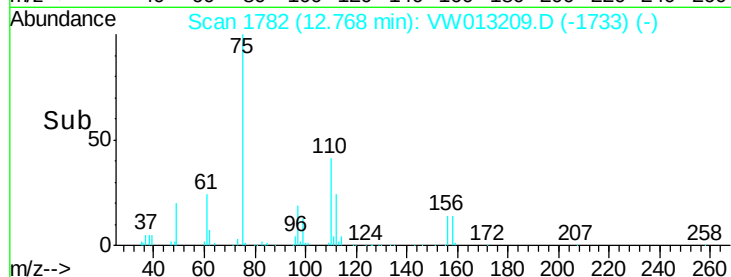
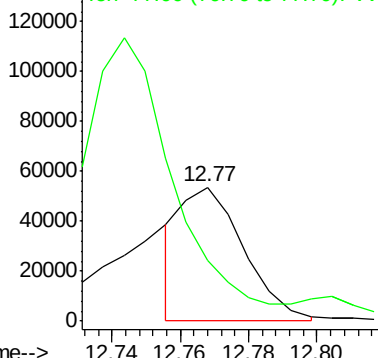
MMDadoda

9/24/2019 5:29:05 AM



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#77

Bromobenzene

Concen: 78.270 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

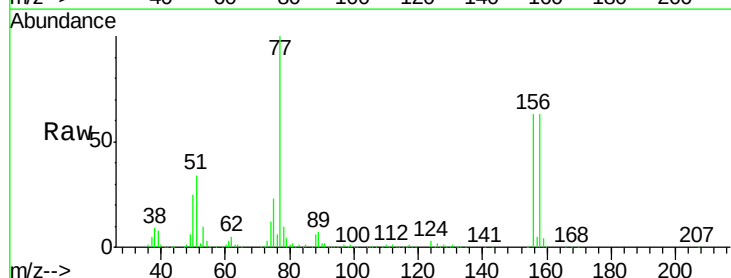
Tgt Ion: 156 Resp: 119832

Ion Ratio Lower Upper

156 100

77 176.2 85.7 257.1

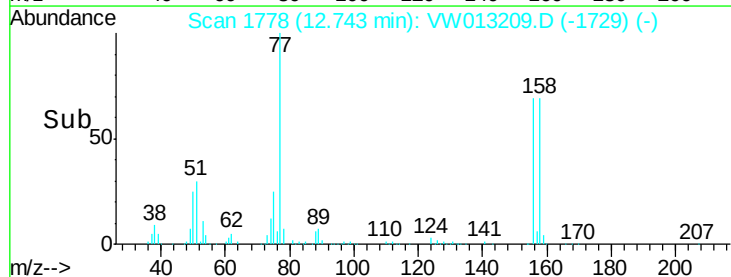
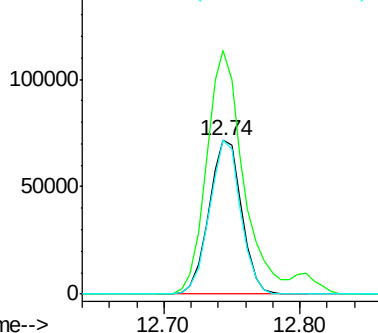
158 96.1 48.1 144.4

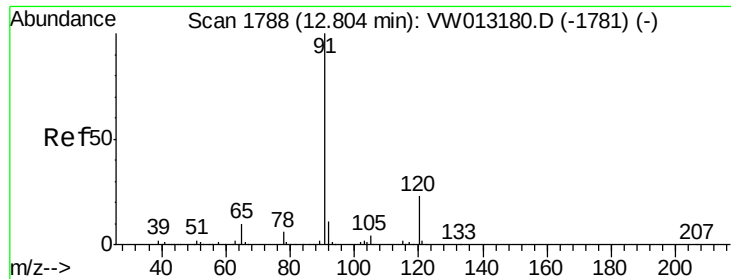


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V





#78

n-propylbenzene

Concen: 50.017 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

ClientSampleId :

982-S-3-(19)MSD

Tot Ion: 91 Resp: 378258

Ion Ratio Lower Upper

91 100

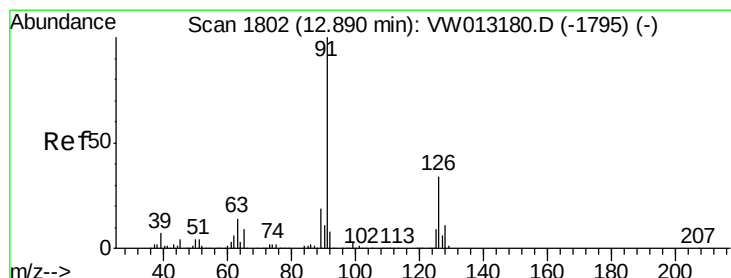
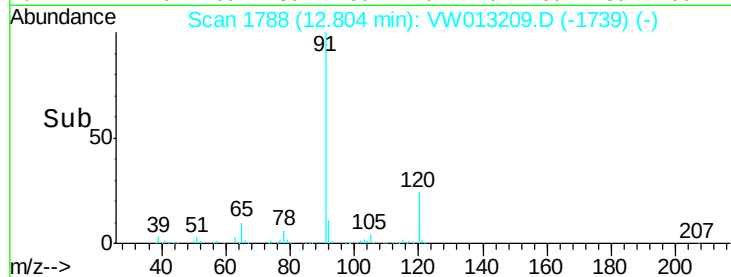
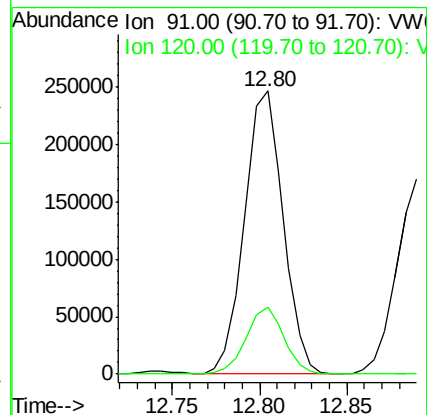
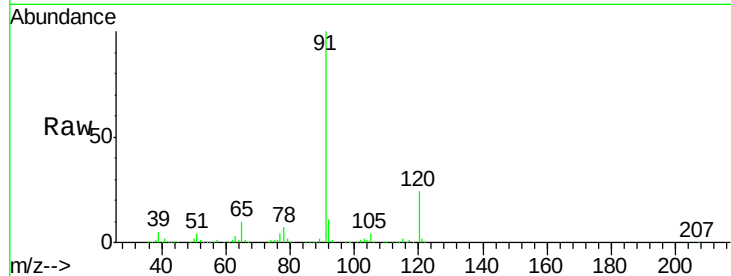
120 23.1 11.7 35.1

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:29:05 AM



#79

2-Chlorotoluene

Concen: 63.923 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VW013209.D

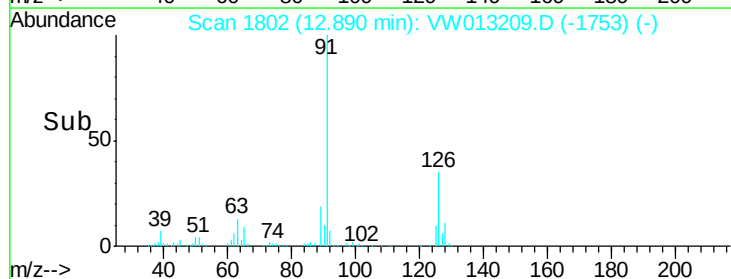
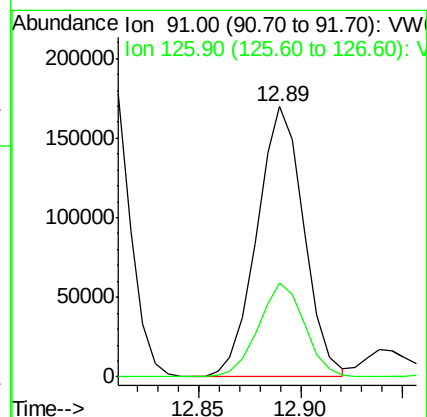
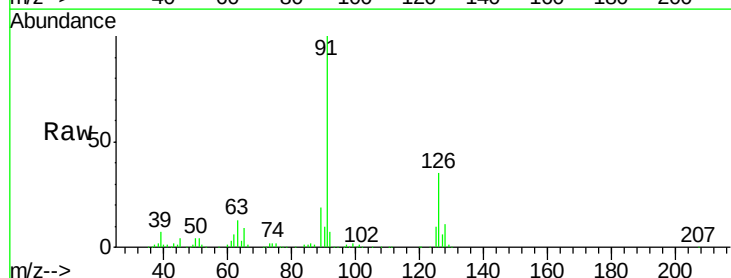
Acq: 21 Sep 2019 03:29

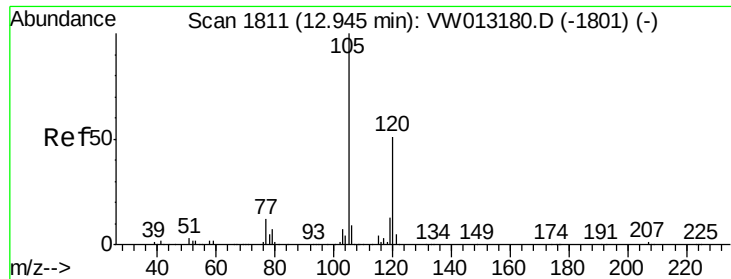
Tgt Ion: 91 Resp: 270829

Ion Ratio Lower Upper

91 100

126 34.3 17.2 51.5





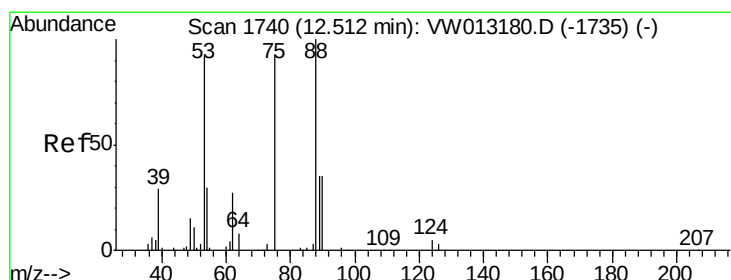
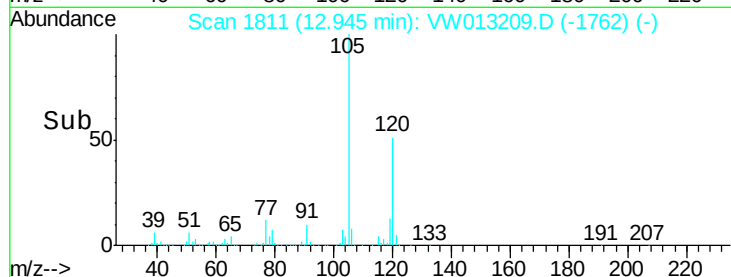
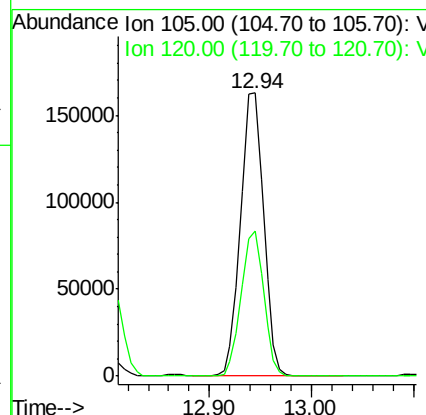
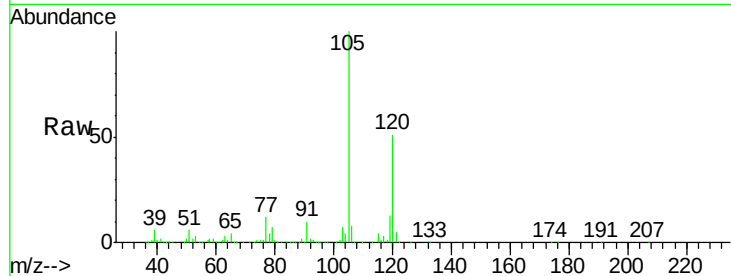
#80
 1,3,5-Trimethylbenzene
 Concen: 46.972 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Instrument :
 MSVOA_W
 ClientSampleId :
 982-S-3-(19)MSD

Tot Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.9	74.8

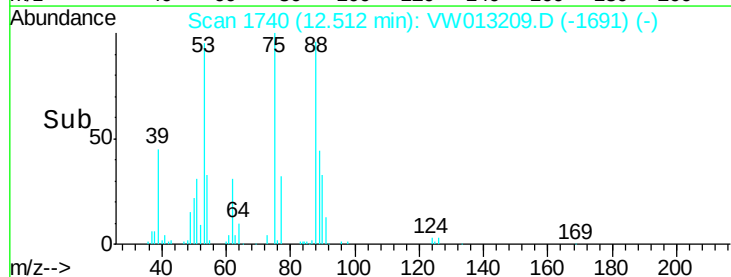
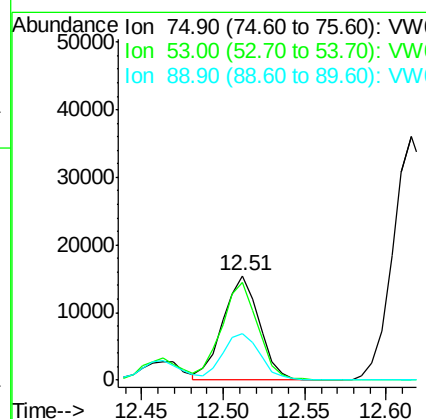
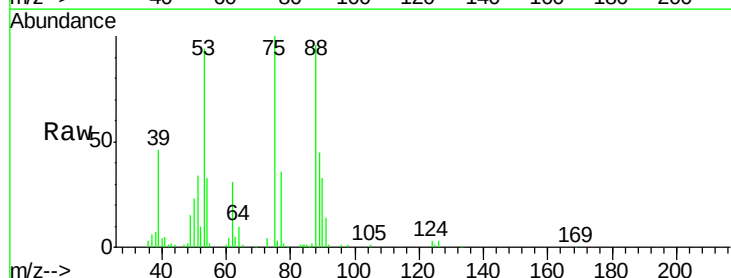
Manual Integrations
 APPROVED

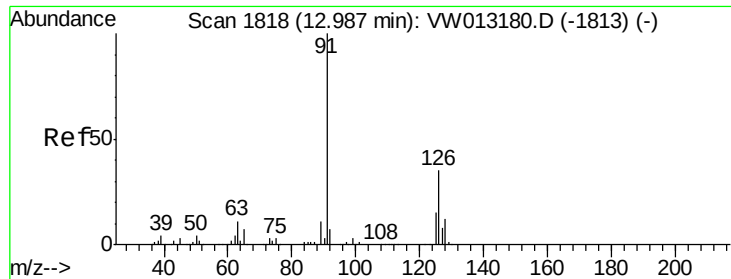
MMDadoda
 9/24/2019 5:29:05 AM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.073 ug/l
 RT: 12.51 min Scan# 1740
 Delta R.T. 0.00 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Lower	Upper
75	100		
53	93.5	76.6	114.8
89	44.9	33.5	50.3





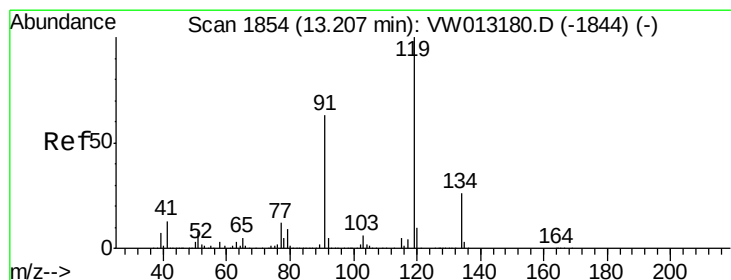
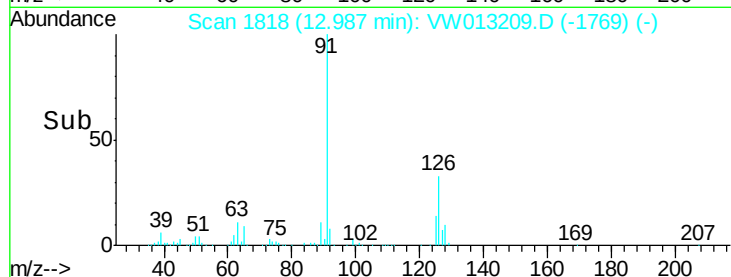
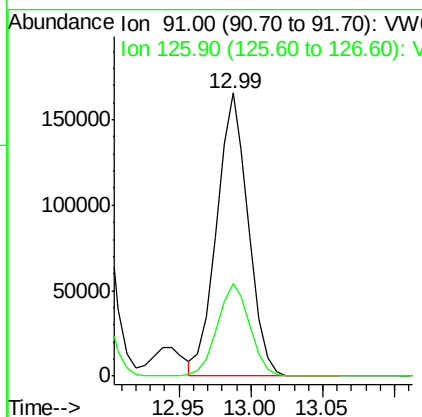
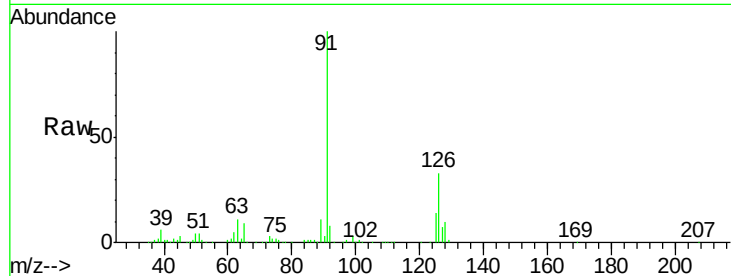
#82
4-Chlorotoluene
Concen: 56.682 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.3	51.7

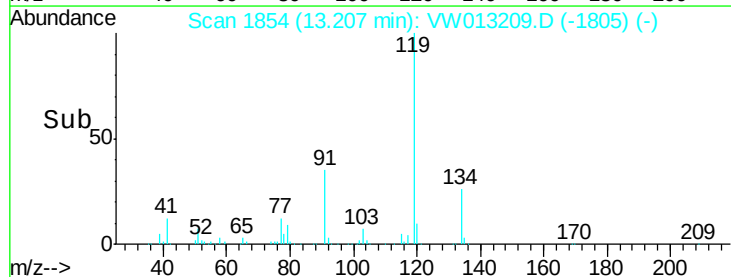
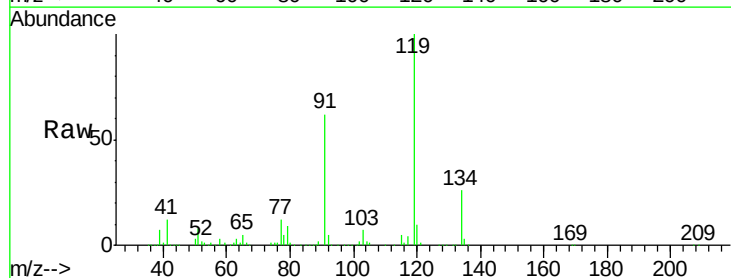
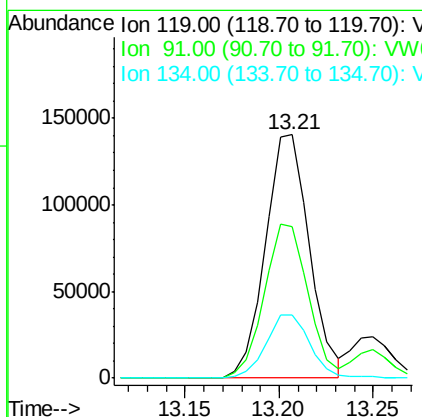
Manual Integrations
APPROVED

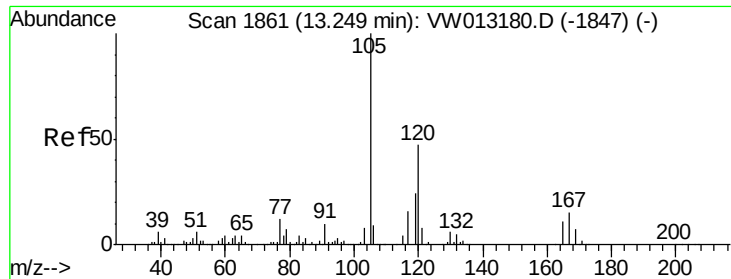
MMDadoda
9/24/2019 5:29:05 AM



#83
tert-Butylbenzene
Concen: 47.759 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Lower	Upper
119	100		
91	63.0	30.7	92.1
134	26.3	12.6	37.6





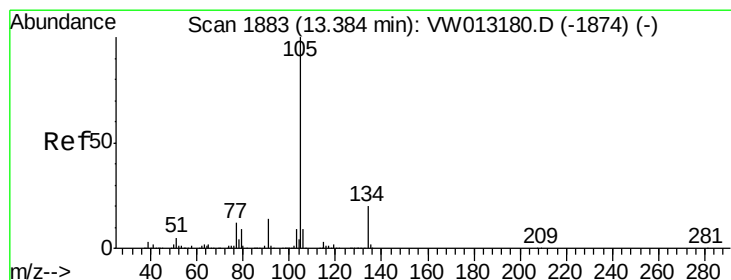
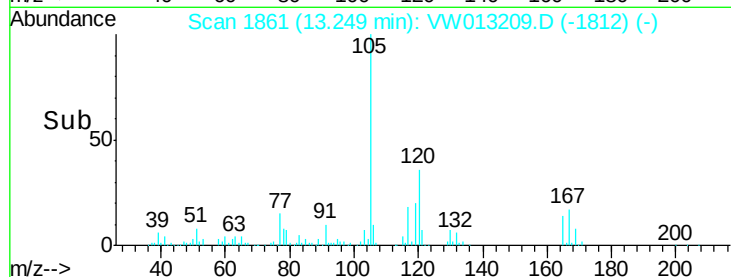
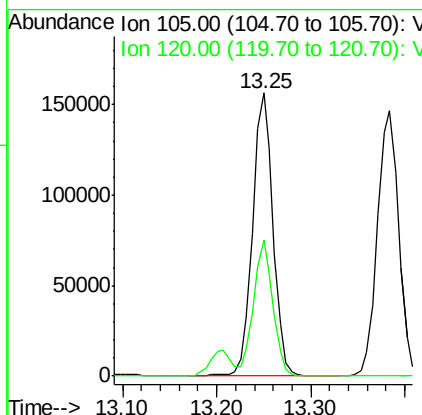
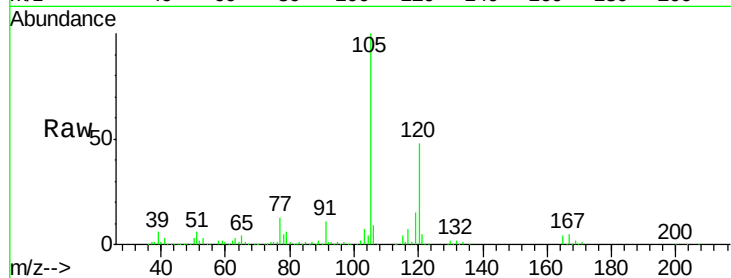
#84
 1,2,4-Trimethylbenzene
 Concen: 44.363 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Instrument :
 MSVOA_W
 ClientSampleId :
 982-S-3-(19)MSD

Tot Ion	Ratio	Lower	Upper
105	100		
120	45.8	23.4	70.3

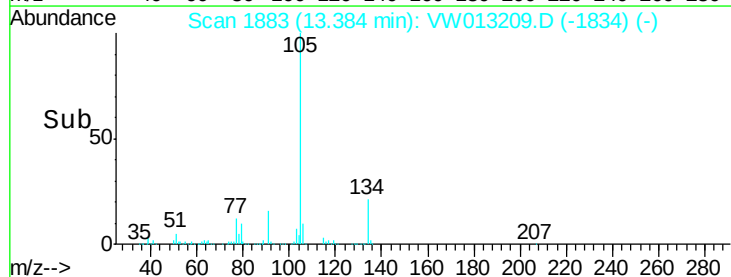
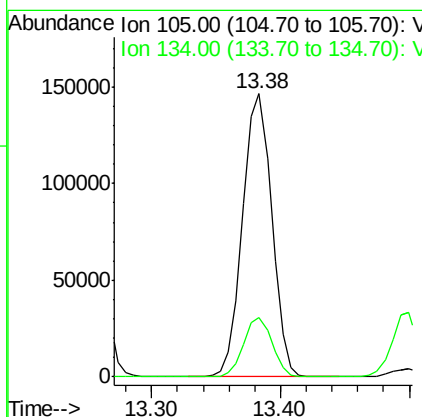
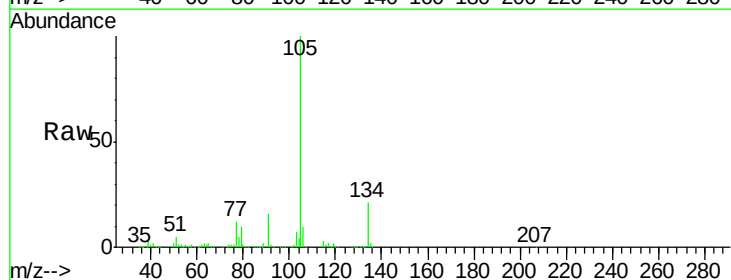
Manual Integrations
 APPROVED

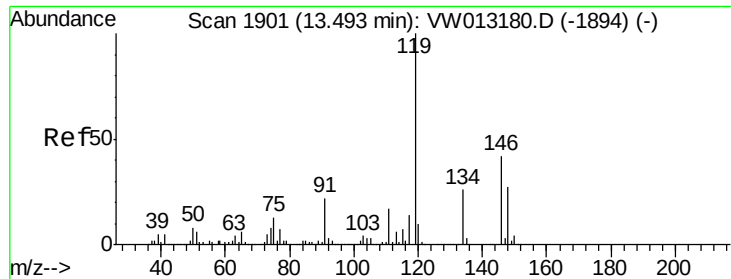
MMDadoda
 9/24/2019 5:29:05 AM



#85
 sec-Butylbenzene
 Concen: 34.917 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.6	10.3	30.8





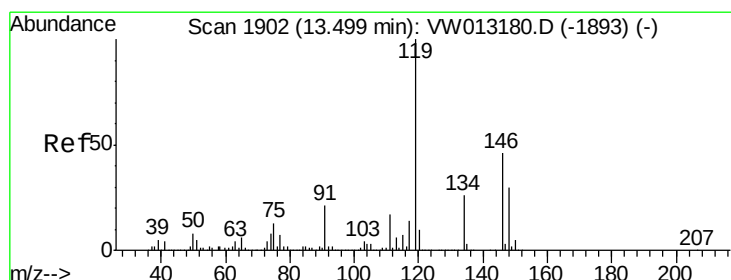
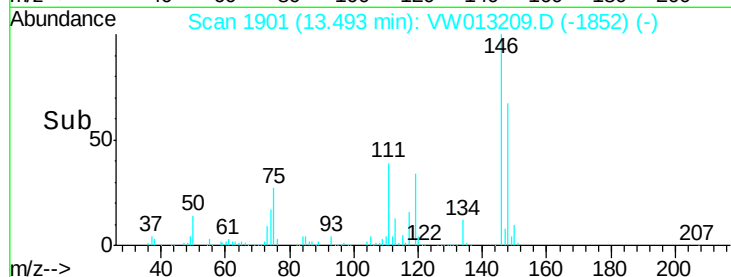
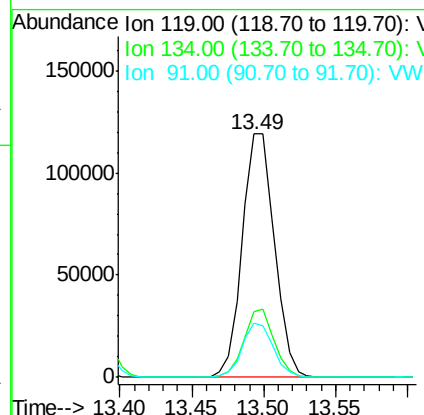
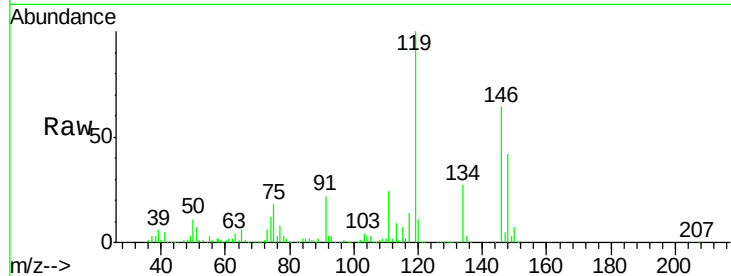
#86
 p-Isopropyltoluene
 Concen: 30.192 ug/l
 RT: 13.49 min Scan# 1901
 Delta R.T. 0.00 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Instrument :
 MSVOA_W
 ClientSampleId :
 982-S-3-(19)MSD

Tot Ion	Ratio	Resp	Lower	Upper
119	100	184034		
134	26.4	13.3	39.8	
91	21.9	10.8	32.4	

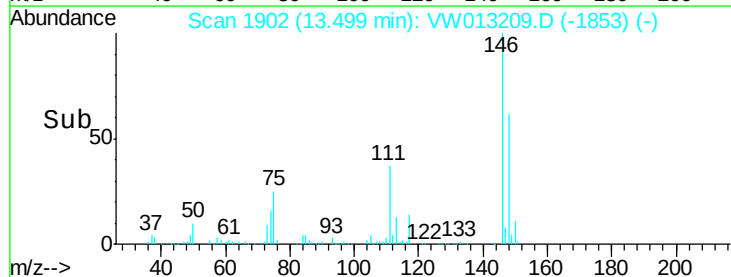
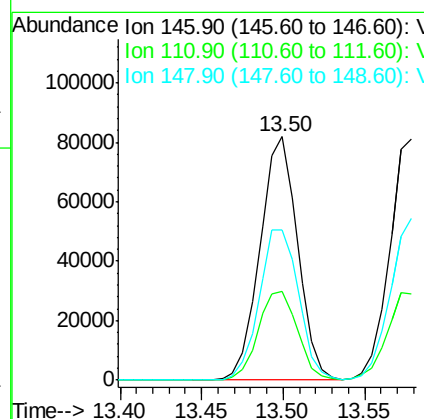
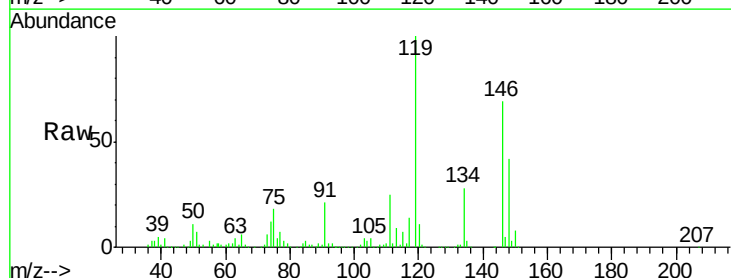
Manual Integrations
 APPROVED

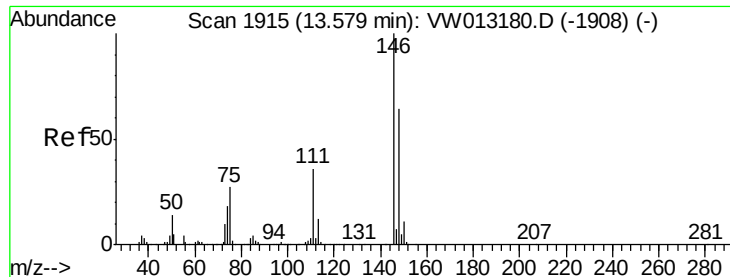
MMDadoda
 9/24/2019 5:29:05 AM



#87
 1,3-Dichlorobenzene
 Concen: 44.619 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	131473		
111	38.1	18.9	56.9	
148	65.0	31.9	95.5	





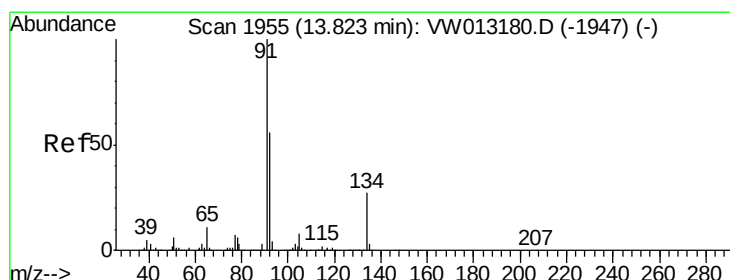
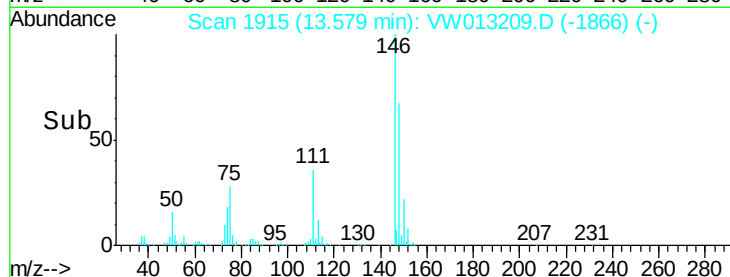
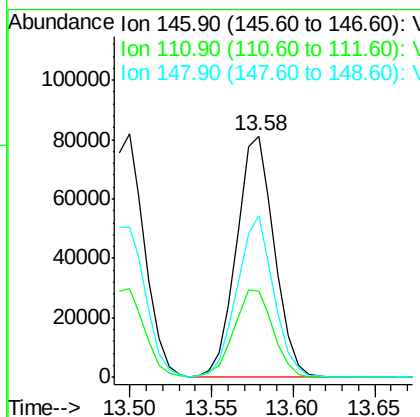
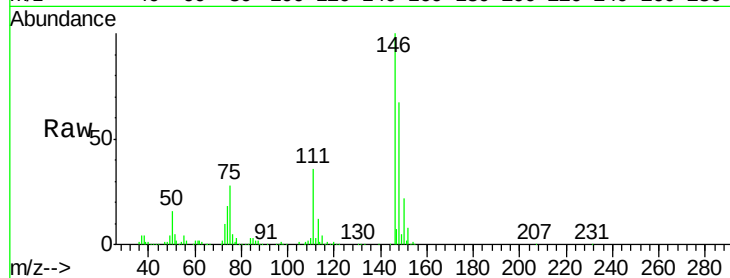
#88
 1,4-Dichlorobenzene
 Concen: 45.335 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Instrument :
 MSVOA_W
 ClientSampleId :
 982-S-3-(19)MSD

Tot Ion	Ratio	Resp	Lower	Upper
146	100	131011		
111	37.3	18.4	55.0	
148	64.9	32.1	96.3	

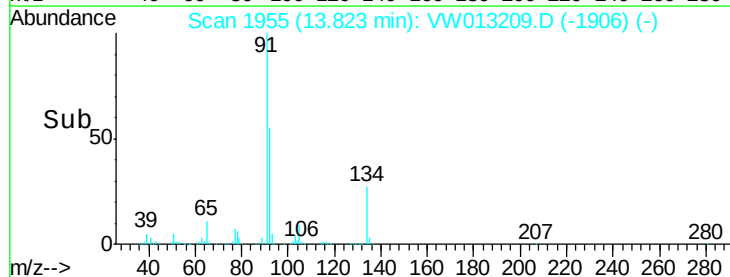
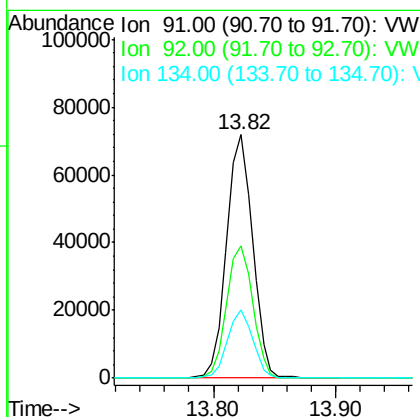
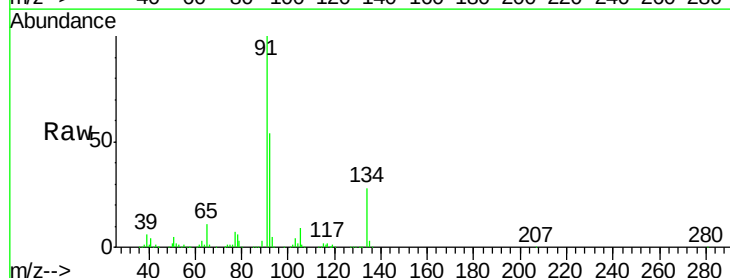
Manual Integrations
 APPROVED

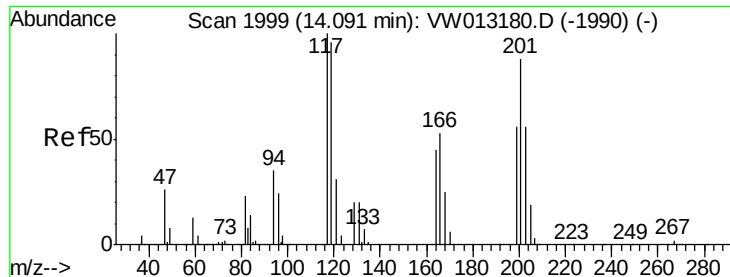
MMDadoda
 9/24/2019 5:29:05 AM



#89
 n-Butylbenzene
 Concen: 19.083 ug/l
 RT: 13.82 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	106215		
92	54.5	27.6	82.8	
134	27.1	13.7	41.1	





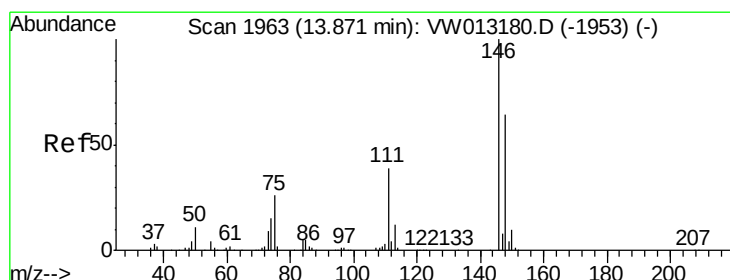
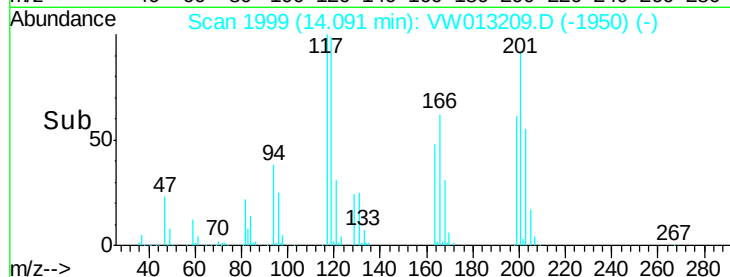
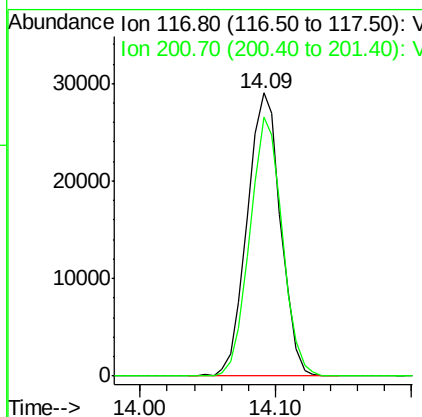
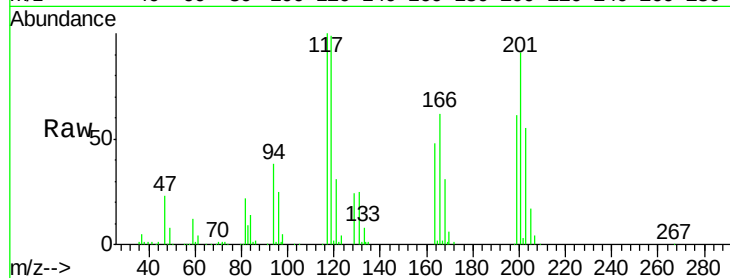
#90
Hexachloroethane
Concen: 48.814 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. 0.00 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Instrument :
MSVOA_W
ClientSampleId :
982-S-3-(19)MSD

Tot Ion	Ratio	Lower	Upper
117	100		
201	89.0	44.5	133.5

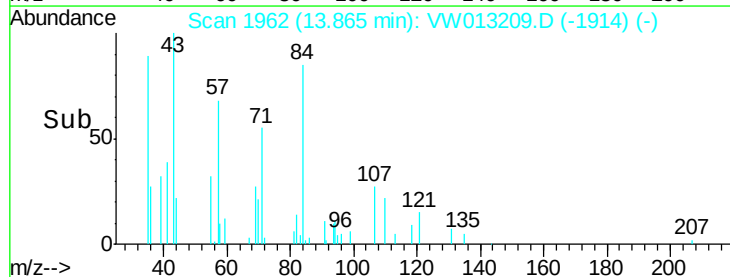
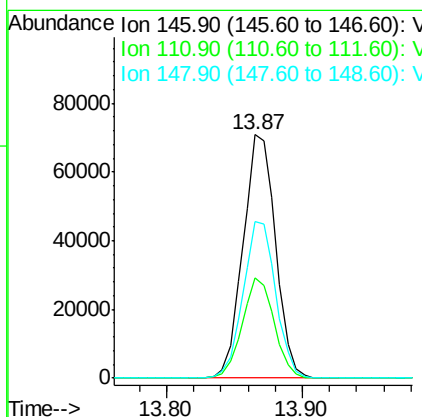
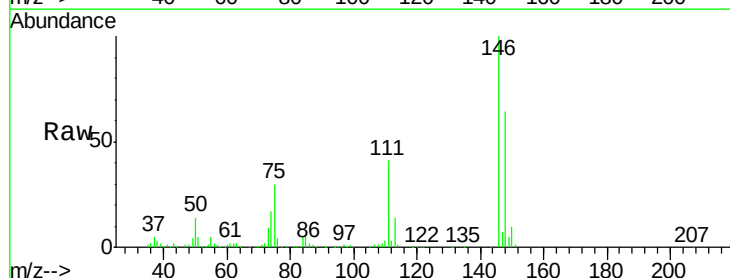
Manual Integrations
APPROVED

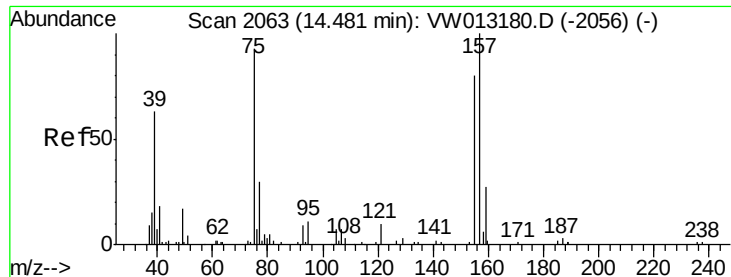
MMDadoda
9/24/2019 5:29:05 AM



#91
1,2-Dichlorobenzene
Concen: 46.476 ug/l
RT: 13.87 min Scan# 1962
Delta R.T. -0.01 min
Lab File: VW013209.D
Acq: 21 Sep 2019 03:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.1	60.3
148	64.3	32.0	96.0





#92

1,2-Dibromo-3-Chloropropane

Concen: 73.589 ug/l

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

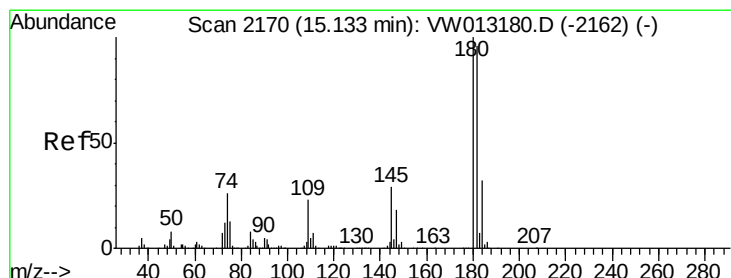
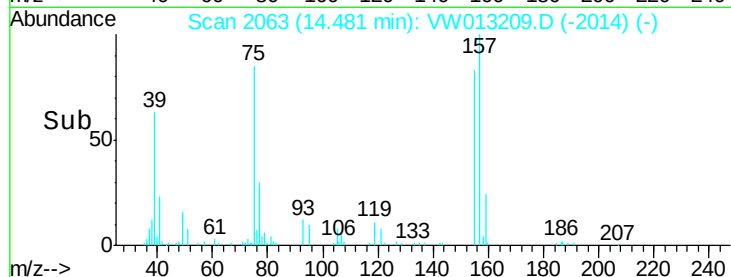
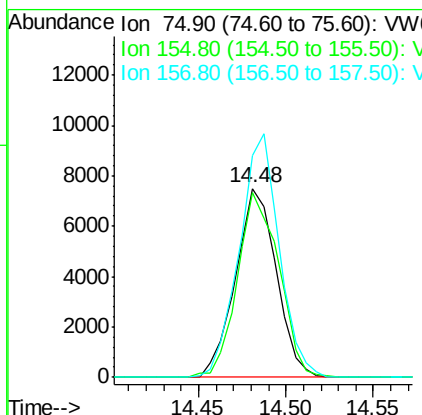
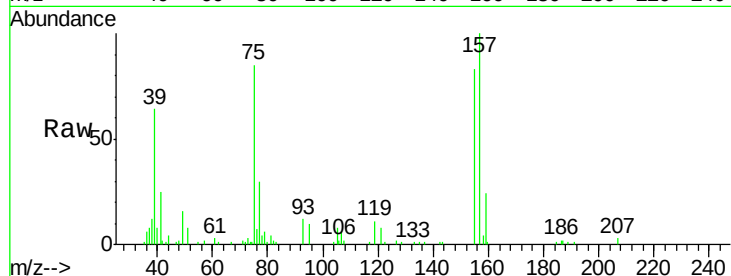
ClientSampleId :

982-S-3-(19)MSD

Tot Ion:	75	Resp:	12162
Ion	Ratio	Lower	Upper
75	100		
155	99.5	46.1	138.3
157	126.0	60.4	181.2

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:29:05 AM



#93

1,2,4-Trichlorobenzene

Concen: 9.498 ug/l

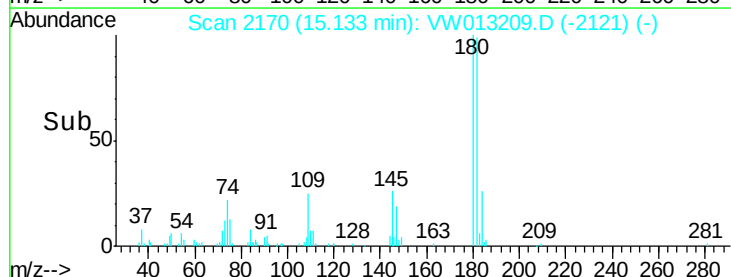
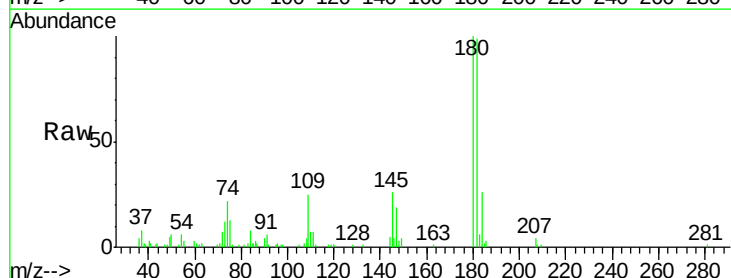
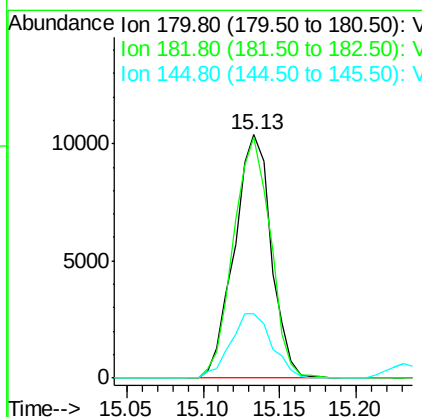
RT: 15.13 min Scan# 2170

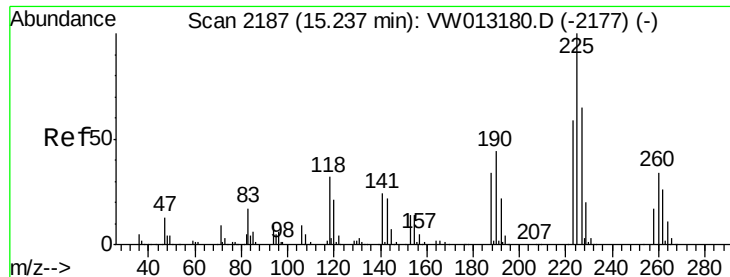
Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Tgt Ion:	180	Resp:	17350
Ion	Ratio	Lower	Upper
180	100		
182	99.6	47.3	142.0
145	29.7	14.2	42.8





#94

Hexachlorobutadiene

Concen: 9.181 ug/l

RT: 15.24 min Scan# 2187

Delta R.T. 0.00 min

Lab File: VW013209.D

Acq: 21 Sep 2019 03:29

Instrument :

MSVOA_W

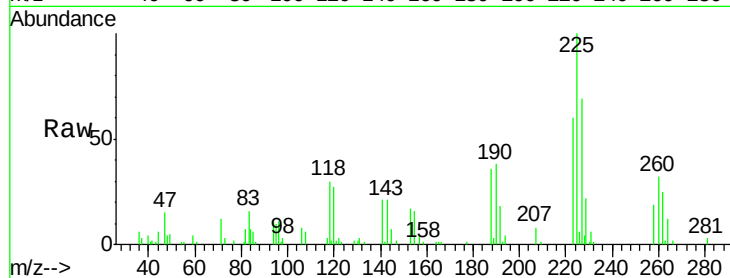
ClientSampleId :

982-S-3-(19)MSD

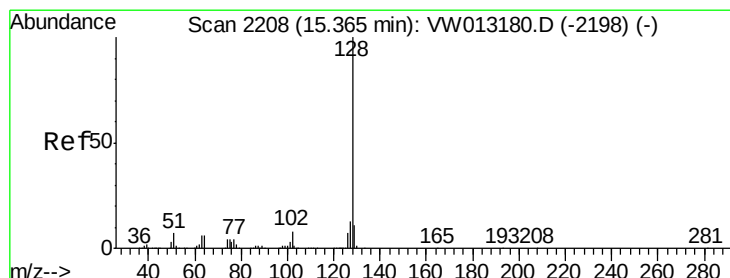
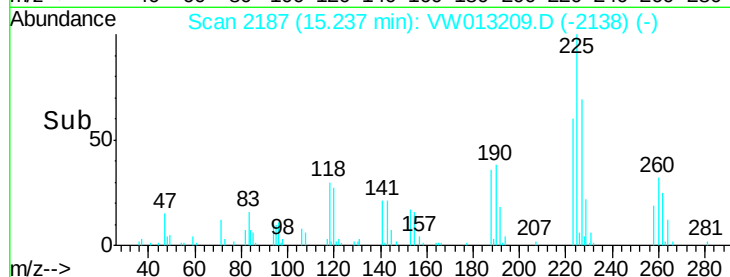
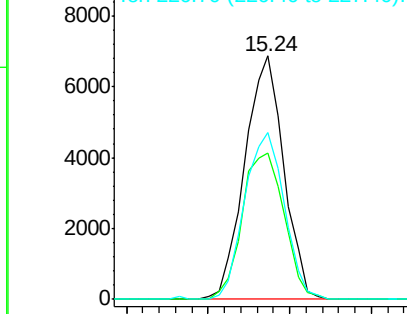
Tot Ion:	225	Resp:	11473
Ion Ratio	Lower	Upper	
225	100		
223	64.5	30.6	91.8
227	69.5	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:29:05 AM



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



#95

Naphthalene

Concen: 23.405 ug/l

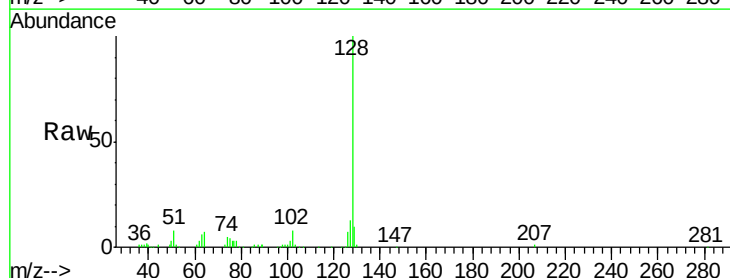
RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

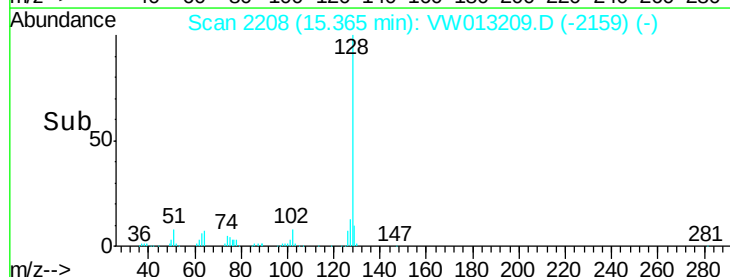
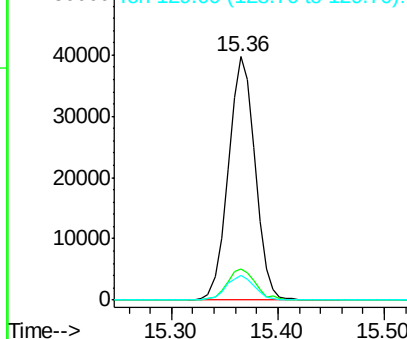
Lab File: VW013209.D

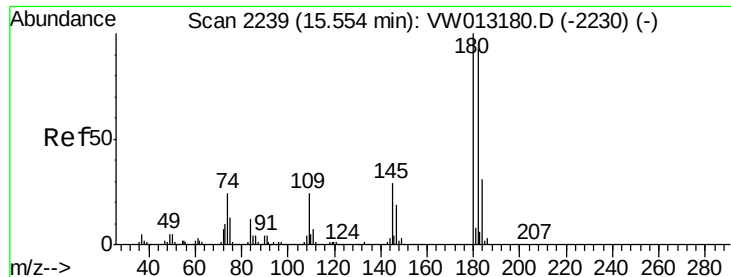
Acq: 21 Sep 2019 03:29

Tgt Ion:	128	Resp:	69923
Ion Ratio	Lower	Upper	
128	100		
127	13.5	10.6	15.8
129	10.7	8.7	13.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





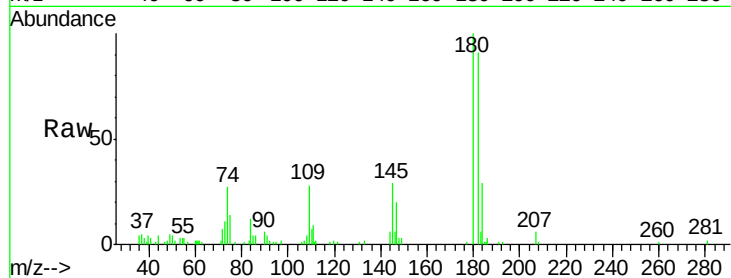
#96
 1,2,3-Trichlorobenzene
 Concen: 9.637 ug/l
 RT: 15.55 min Scan# 2239
 Delta R.T. 0.00 min
 Lab File: VW013209.D
 Acq: 21 Sep 2019 03:29

Instrument :
 MSVOA_W
 ClientSampleId :
 982-S-3-(19)MSD

Tot Ion	Ratio	Resp	Lower	Upper
180	100	15210		
182	97.3		47.9	143.7
145	30.5		15.0	45.0

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 5:29:05 AM



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

