

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW103118\
 Data File : VW006467.D
 Acq On : 29 Oct 2018 21:59
 Operator : SY/AP
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 10/30/2018 2:16:15 PM

Quant Time: Oct 30 07:06:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 18 17:01:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	209098	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	293324	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	275932	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	157643	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	88812	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	
35) Dibromofluoromethane	7.89	113	94326	54.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.84%	
50) Toluene-d8	10.33	98	350103	53.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.18%	
62) 4-Bromofluorobenzene	12.62	95	135577	54.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.48%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.01	85	56982	55.069	ug/l	98
3) Chloromethane	2.22	50	72481	54.417	ug/l	98
4) Vinyl Chloride	2.37	62	106043	55.749	ug/l	99
5) Bromomethane	2.79	94	96419	55.731	ug/l	99
6) Chloroethane	2.93	64	81907	60.087	ug/l	98
7) Trichlorofluoromethane	3.26	101	110713	62.480	ug/l	98
8) Diethyl Ether	3.68	74	49888	52.974	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.06	101	106951	57.593	ug/l	99
10) Methyl Iodide	4.26	142	182216	58.954	ug/l	99
11) Tert butyl alcohol	5.23	59	29428	252.410	ug/l #	87
12) 1,1-Dichloroethene	4.04	96	99280	56.826	ug/l	95
13) Acrolein	3.90	56	25946	229.988	ug/l	96
14) Allyl chloride	4.67	41	134044	53.659	ug/l	98
15) Acrylonitrile	5.38	53	98274	290.943	ug/l	98
16) Acetone	4.14	43	96028m	298.118	ug/l	
17) Carbon Disulfide	4.38	76	283354	53.739	ug/l	99
18) Methyl Acetate	4.68	43	48618	55.730	ug/l	96
19) Methyl tert-butyl Ether	5.43	73	152806	57.425	ug/l	99
20) Methylene Chloride	4.91	84	110144m	60.386	ug/l	
21) trans-1,2-Dichloroethene	5.42	96	114607	58.770	ug/l	98
22) Diisopropyl ether	6.32	45	282062	57.138	ug/l	98
23) Vinyl Acetate	6.26	43	797058	273.592	ug/l	99
24) 1,1-Dichloroethane	6.22	63	189484	59.486	ug/l	99
25) 2-Butanone	7.18	43	132171	282.228	ug/l	98
26) 2,2-Dichloropropane	7.17	77	124699	55.505	ug/l	100
27) cis-1,2-Dichloroethene	7.17	96	127863	59.416	ug/l	98
28) Bromochloromethane	7.51	49	71743	58.340	ug/l	92
29) Tetrahydrofuran	7.54	42	78498	272.694	ug/l	97
30) Chloroform	7.68	83	207560	59.808	ug/l	99
31) Cyclohexane	7.96	56	161092	50.783	ug/l	95
32) 1,1,1-Trichloroethane	7.88	97	181245	57.896	ug/l	99
36) 1,1-Dichloropropene	8.09	75	157185	58.139	ug/l	99
37) Ethyl Acetate	7.26	43	56974	56.719	ug/l	100
38) Carbon Tetrachloride	8.07	117	171117	57.735	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV103118\
 Data File : VW006467.D
 Acq On : 29 Oct 2018 21:59
 Operator : SY/AP
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

apatel
 10/30/2018 2:16:15 PM

Quant Time: Oct 30 07:06:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 18 17:01:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	204030	56.772	ug/l	98
40) Benzene	8.33	78	451055	60.820	ug/l	99
41) Methacrylonitrile	7.49	41	35571	58.741	ug/l	97
42) 1,2-Dichloroethane	8.40	62	129618	59.488	ug/l	98
43) Isopropyl Acetate	8.43	43	110461	53.783	ug/l	98
44) Trichloroethene	9.10	130	138200	60.739	ug/l	99
45) 1,2-Dichloropropane	9.37	63	107199	60.405	ug/l	97
46) Dibromomethane	9.46	93	61671	60.972	ug/l	98
47) Bromodichloromethane	9.65	83	147568	60.176	ug/l	99
48) Methyl methacrylate	9.44	41	54742	56.229	ug/l	94
49) 1,4-Dioxane	9.48	88	19118	1227.776	ug/l #	100
51) 4-Methyl-2-Pentanone	10.21	43	289691	281.512	ug/l	98
52) Toluene	10.39	92	302265	60.793	ug/l	99
53) t-1,3-Dichloropropene	10.61	75	144138	58.994	ug/l	99
54) cis-1,3-Dichloropropene	10.08	75	167995	59.911	ug/l	94
55) 1,1,2-Trichloroethane	10.79	97	88489	62.517	ug/l	98
56) Ethyl methacrylate	10.65	69	99613	57.406	ug/l	95
57) 1,3-Dichloropropane	10.93	76	143608	61.289	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.93	63	187952	283.468	ug/l	98
59) 2-Hexanone	10.98	43	205812	280.178	ug/l	97
60) Dibromochloromethane	11.13	129	109351	62.023	ug/l	99
61) 1,2-Dibromoethane	11.24	107	87085	61.575	ug/l	99
64) Tetrachloroethene	10.87	164	130650	60.992	ug/l	96
65) Chlorobenzene	11.66	112	356935	60.427	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.74	131	126983	60.491	ug/l	99
67) Ethyl Benzene	11.74	91	607096	59.305	ug/l	99
68) m/p-Xylenes	11.84	106	484364	119.710	ug/l	97
69) o-Xylene	12.17	106	228325	59.212	ug/l	99
70) Styrene	12.19	104	377861	60.260	ug/l	99
71) Bromoform	12.35	173	68650	58.632	ug/l #	100
73) Isopropylbenzene	12.47	105	640438	57.505	ug/l	99
74) N-amyl acetate	12.28	43	110983	51.307	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.72	83	101915	60.166	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	76992m	63.942	ug/l	
77) Bromobenzene	12.75	156	161990	59.385	ug/l	97
78) n-propylbenzene	12.81	91	751318	57.986	ug/l	99
79) 2-Chlorotoluene	12.90	91	422853	58.084	ug/l	98
80) 1,3,5-Trimethylbenzene	12.95	105	545819	58.135	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.52	75	28171	55.926	ug/l	98
82) 4-Chlorotoluene	12.99	91	449231	58.908	ug/l	99
83) tert-Butylbenzene	13.21	119	485665	57.817	ug/l	97
84) 1,2,4-Trimethylbenzene	13.26	105	554769	58.393	ug/l	100
85) sec-Butylbenzene	13.39	105	691559	58.275	ug/l	100
86) p-Isopropyltoluene	13.51	119	620918	57.847	ug/l	99
87) 1,3-Dichlorobenzene	13.51	146	323610	59.610	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	318350	58.896	ug/l	99
89) n-Butylbenzene	13.83	91	563054	57.358	ug/l	99
90) Hexachloroethane	14.10	117	102652	56.460	ug/l	95
91) 1,2-Dichlorobenzene	13.88	146	287561	59.383	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	15805	52.114	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW103118\
Data File : VW006467.D
Acq On : 29 Oct 2018 21:59
Operator : SY/AP
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

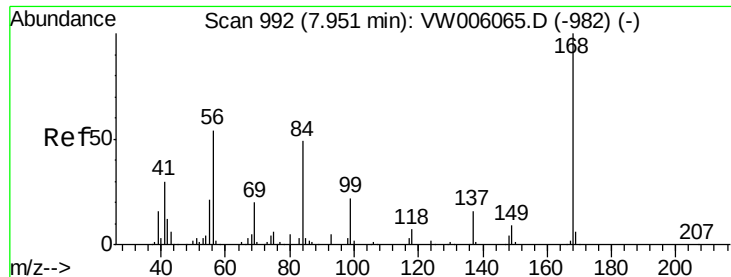
Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM

Quant Time: Oct 30 07:06:42 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 18 17:01:24 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	208189	55.874	ug/l	100
94) Hexachlorobutadiene	15.24	225	132174	56.469	ug/l	100
95) Naphthalene	15.38	128	338939	54.683	ug/l	100
96) 1,2,3-Trichlorobenzene	15.57	180	178752	55.465	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 209098

Ion Ratio Lower Upper

168 100

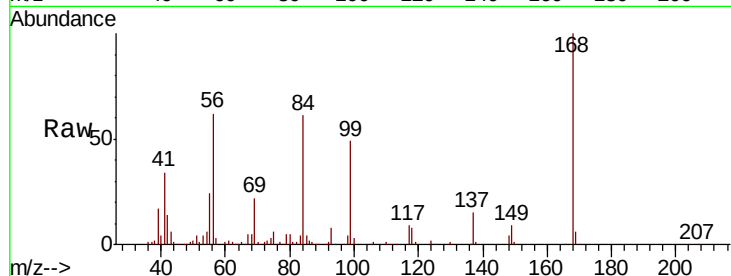
99 48.9 39.9 59.9

Manual Integrations

APPROVED

apatel

10/30/2018 2:16:15 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

60000

40000

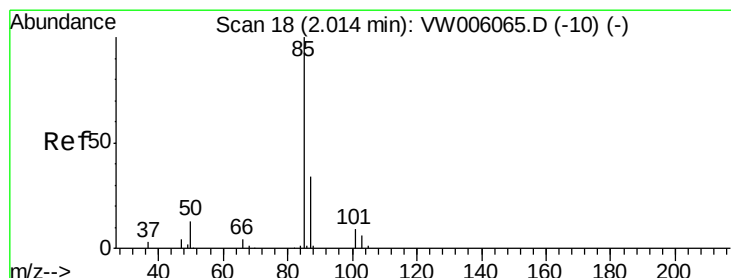
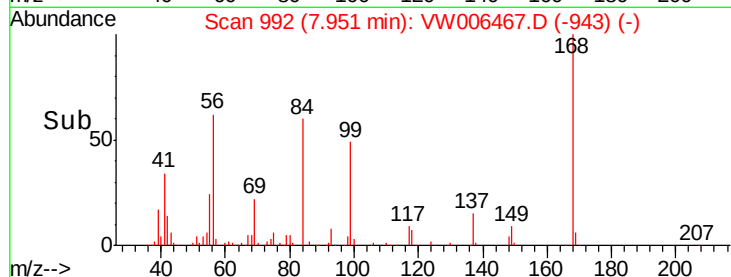
20000

0

Time-->

7.90

8.00



#2

Dichlorodifluoromethane

Concen: 55.069 ug/l

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW006467.D

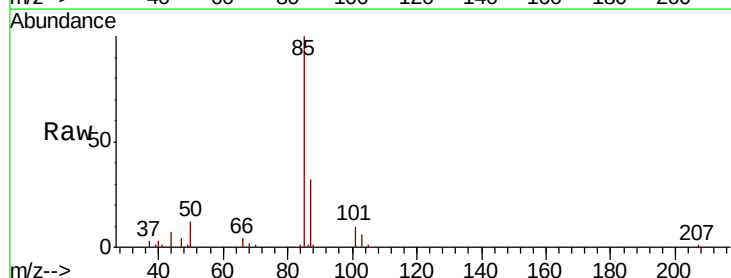
Acq: 29 Oct 2018 21:59

Tgt Ion: 85 Resp: 56982

Ion Ratio Lower Upper

85 100

87 32.5 16.9 50.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

15000

10000

5000

0

Time-->

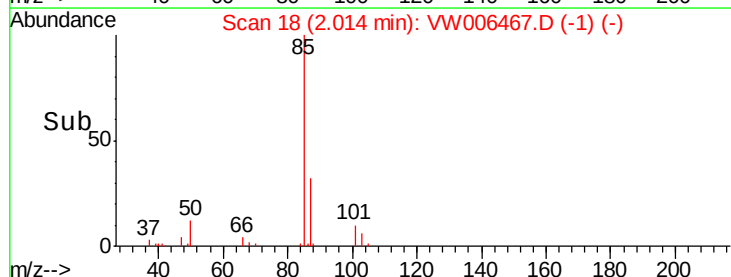
1.90

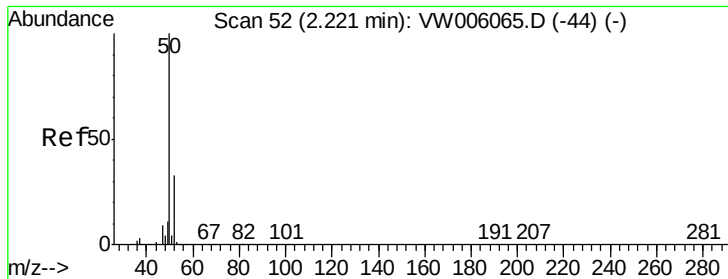
2.00

2.10

2.20

2.30





#3

Chloromethane

Concen: 54.417 ug/l

RT: 2.22 min Scan# 52

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 72481

Ion Ratio Lower Upper

50 100

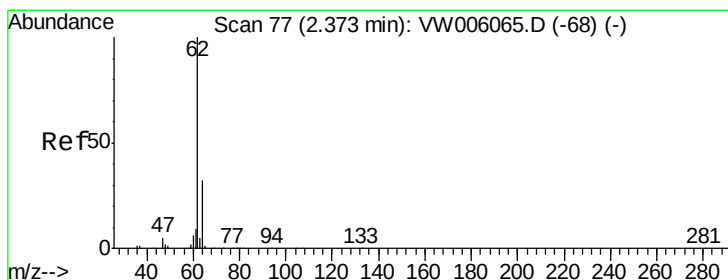
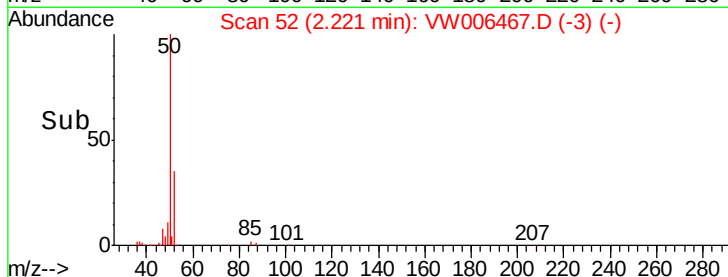
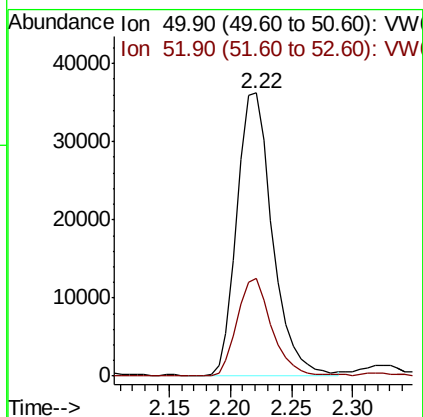
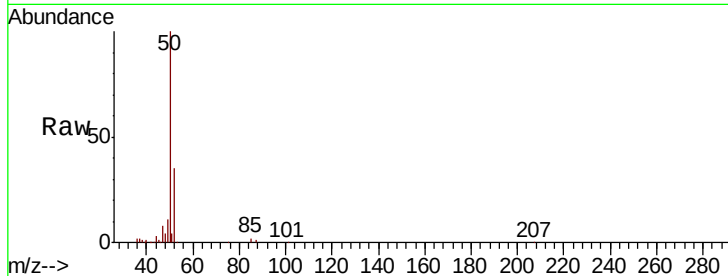
52 34.8 26.8 40.2

Manual Integrations

APPROVED

apatel

10/30/2018 2:16:15 PM



#4

Vinyl Chloride

Concen: 55.749 ug/l

RT: 2.37 min Scan# 76

Delta R.T. -0.01 min

Lab File: VW006467.D

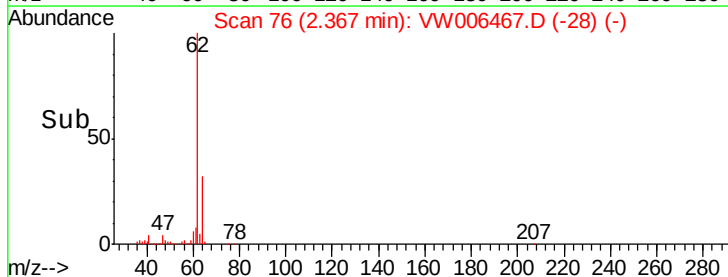
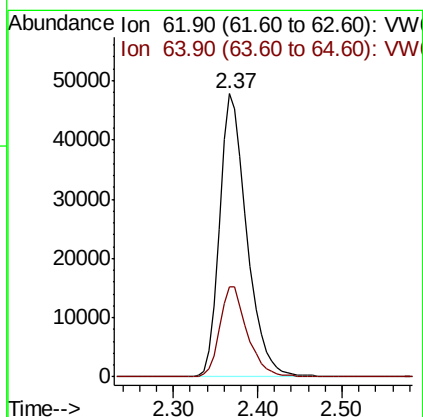
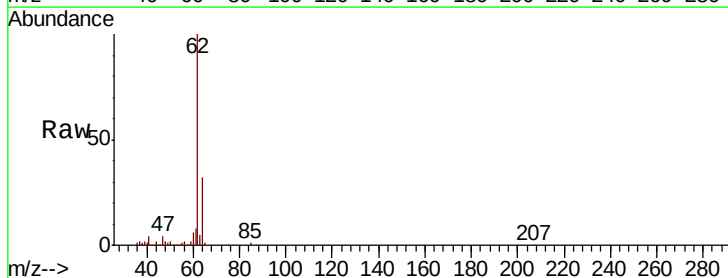
Acq: 29 Oct 2018 21:59

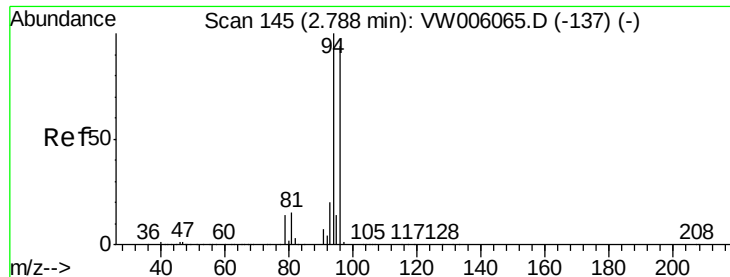
Tgt Ion: 62 Resp: 106043

Ion Ratio Lower Upper

62 100

64 31.6 25.9 38.9





#5

Bromomethane

Concen: 55.731 ug/l

RT: 2.79 min Scan# 145

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 96419

Ion Ratio Lower Upper

94 100

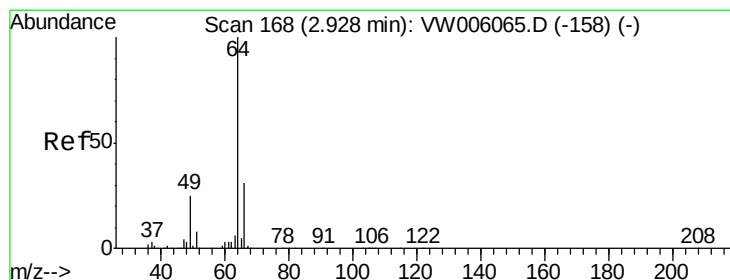
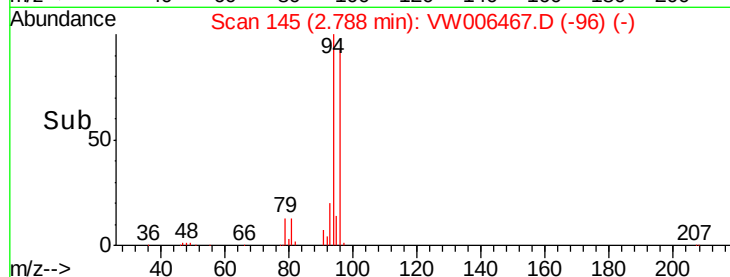
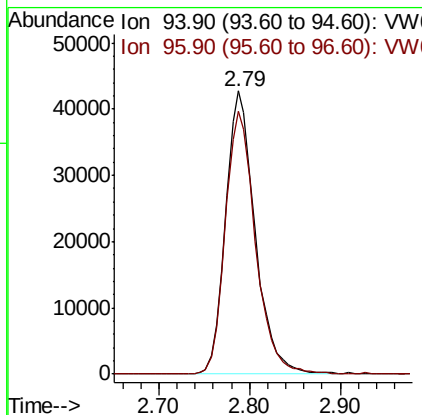
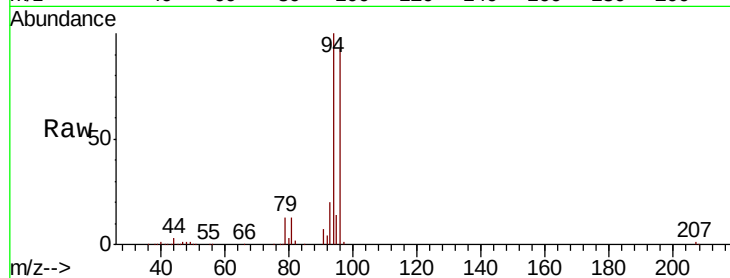
96 93.0 74.9 112.3

Manual Integrations

APPROVED

apatel

10/30/2018 2:16:15 PM



#6

Chloroethane

Concen: 60.087 ug/l

RT: 2.93 min Scan# 169

Delta R.T. 0.01 min

Lab File: VW006467.D

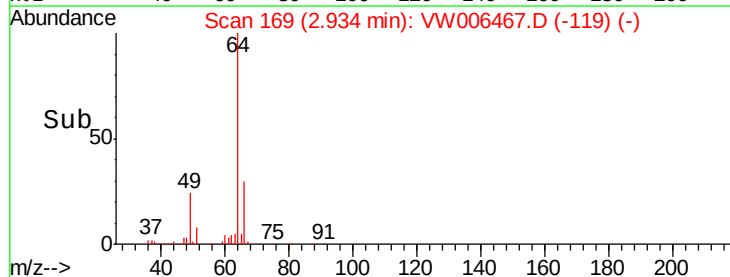
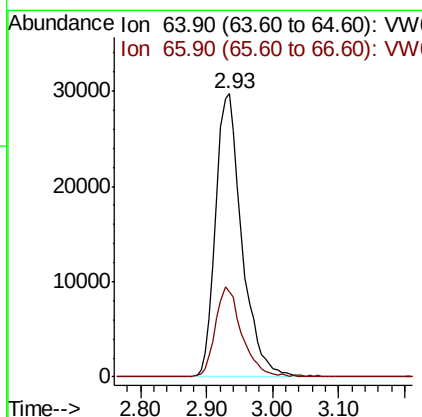
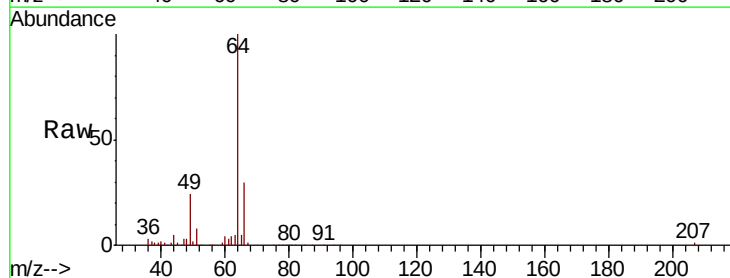
Acq: 29 Oct 2018 21:59

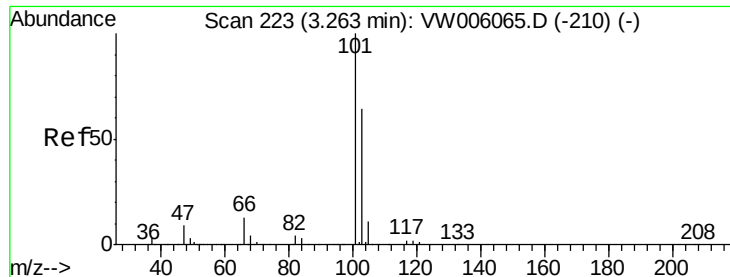
Tgt Ion: 64 Resp: 81907

Ion Ratio Lower Upper

64 100

66 30.2 24.9 37.3





#7

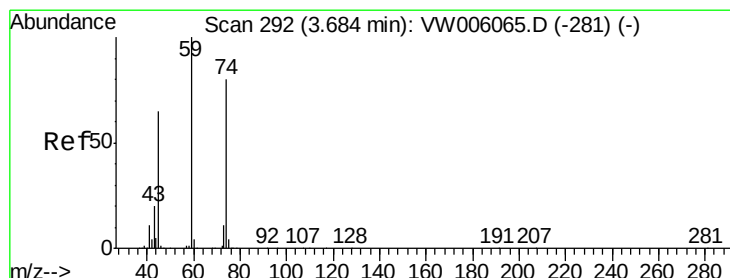
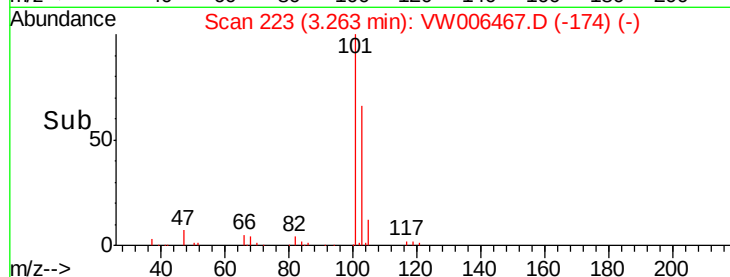
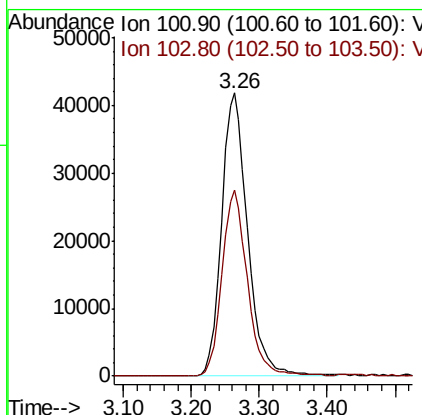
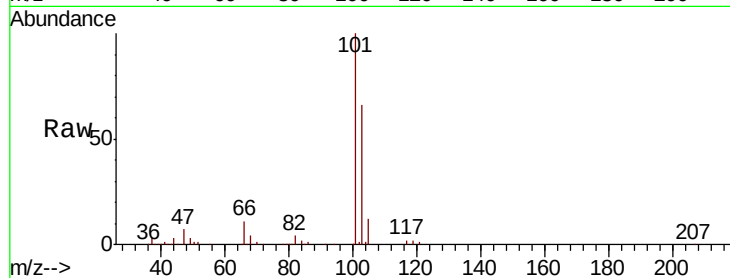
Trichlorofluoromethane
Concen: 62.480 ug/l
RT: 3.26 min Scan# 223
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.8	51.2	76.8

Manual Integrations
APPROVED

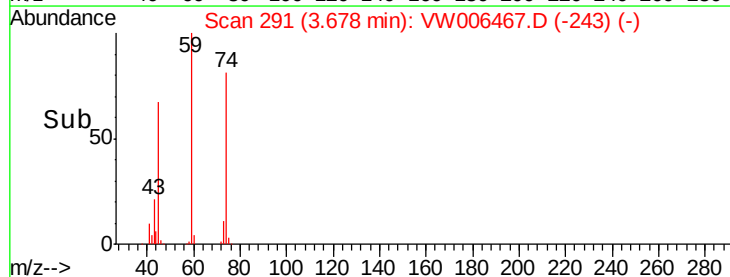
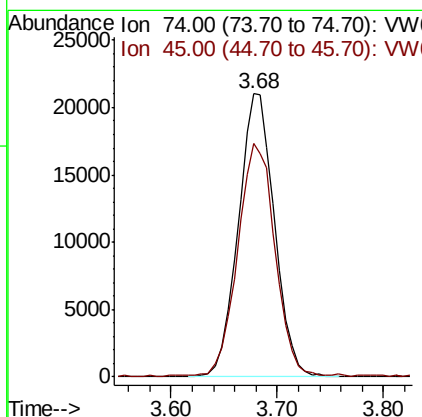
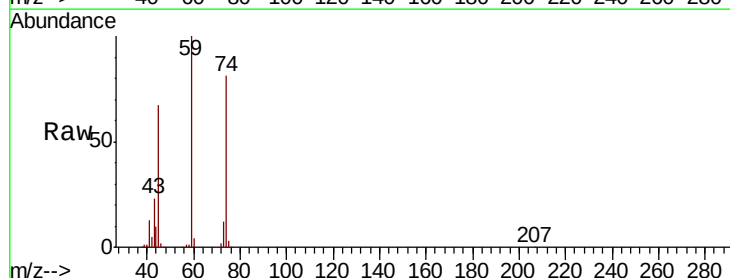
apatel
10/30/2018 2:16:15 PM

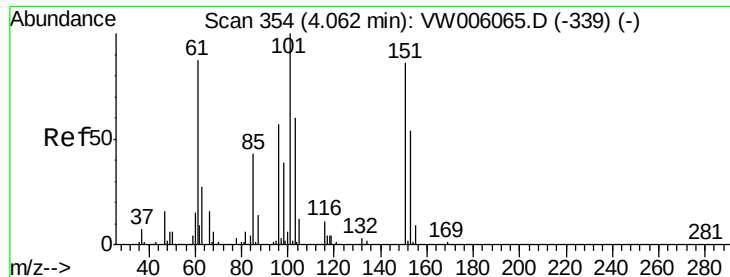


#8

Diethyl Ether
Concen: 52.974 ug/l
RT: 3.68 min Scan# 291
Delta R.T. -0.01 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
74	100		
45	85.4	42.8	128.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 57.593 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

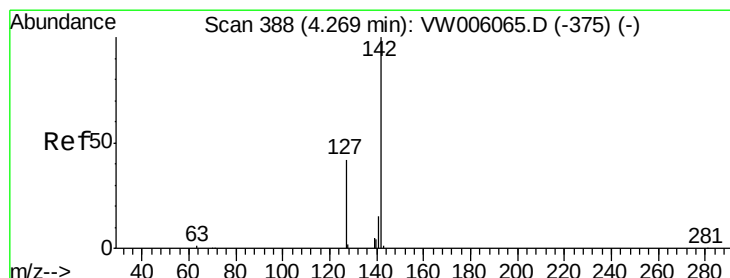
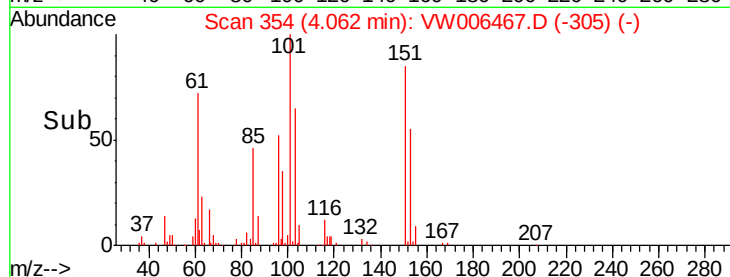
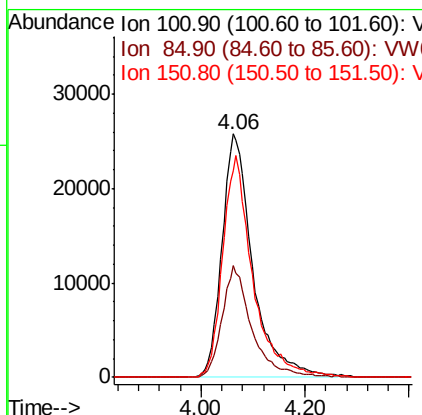
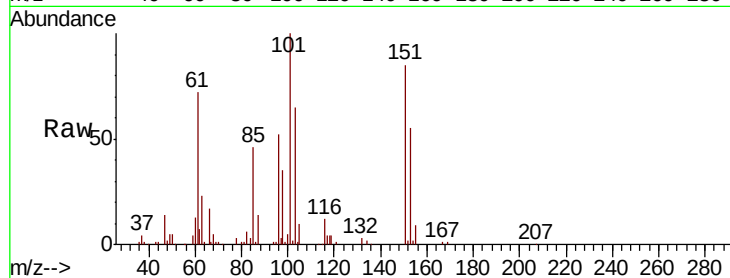
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	106951
Ion Ratio	Lower	Upper	
101	100		
85	44.1	34.9	52.3
151	89.1	70.4	105.6

Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM



#10

Methyl Iodide

Concen: 58.954 ug/l

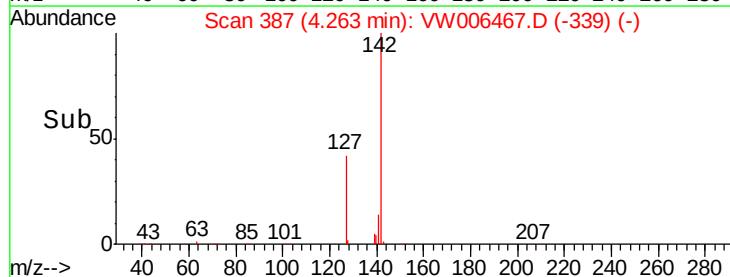
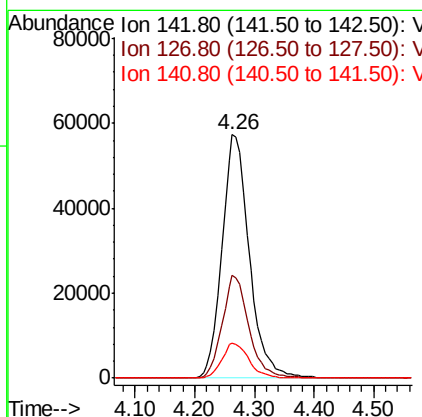
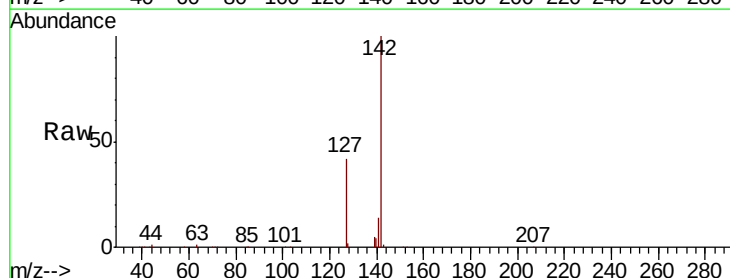
RT: 4.26 min Scan# 387

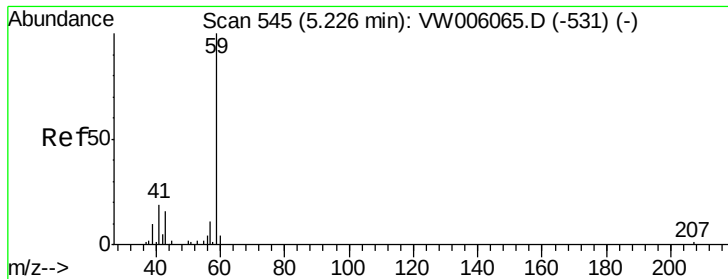
Delta R.T. -0.01 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Tgt Ion:	142	Resp:	182216
Ion Ratio	Lower	Upper	
142	100		
127	41.3	33.6	50.4
141	14.3	11.6	17.4





#11

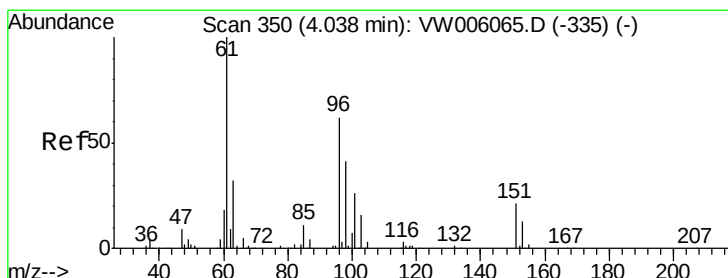
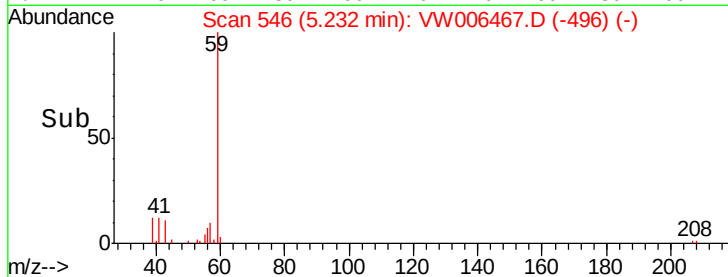
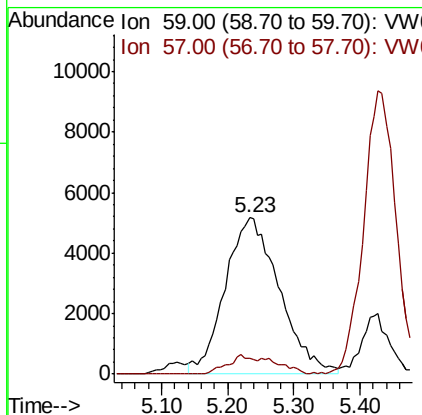
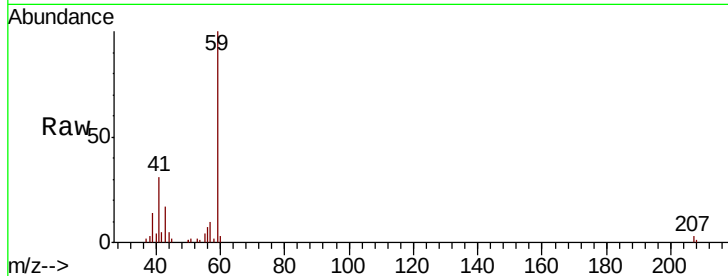
Tert butyl alcohol
Concen: 252.410 ug/l
RT: 5.23 min Scan# 546
Delta R.T. 0.01 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.1	8.7	13.1#

Manual Integrations
APPROVED

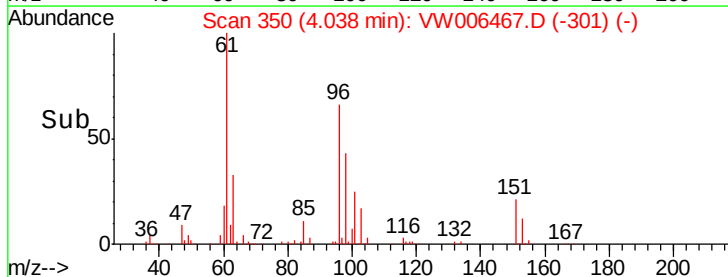
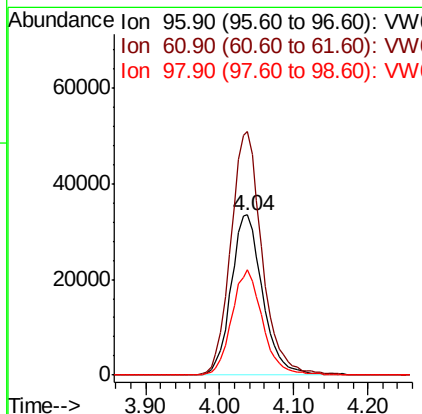
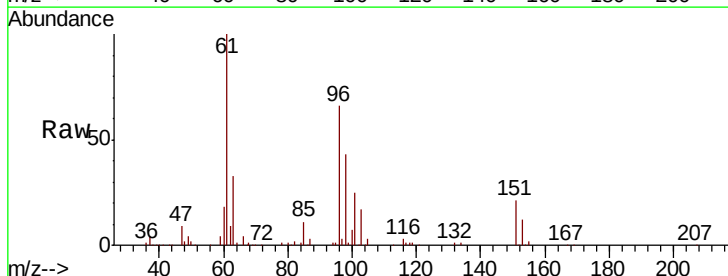
apatel
10/30/2018 2:16:15 PM

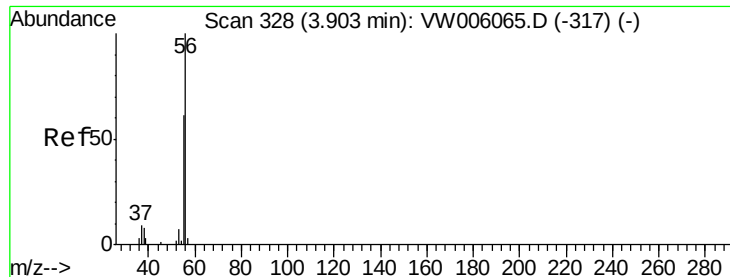


#12

1,1-Dichloroethene
Concen: 56.826 ug/l
RT: 4.04 min Scan# 350
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.9	129.3	193.9
98	65.7	53.1	79.7





#13

Acrolein

Concen: 229.988 ug/l

RT: 3.90 min Scan# 327

Delta R.T. -0.01 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 25946

Ion Ratio Lower Upper

56 100

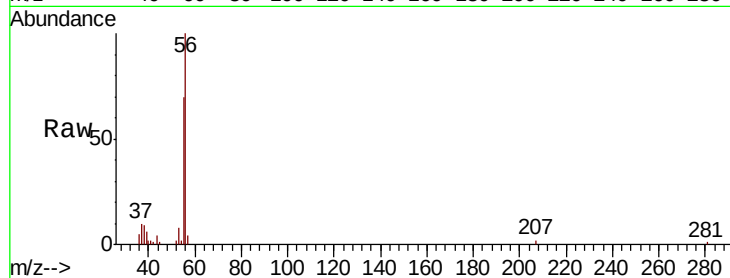
55 71.4 54.5 81.7

Manual Integrations

APPROVED

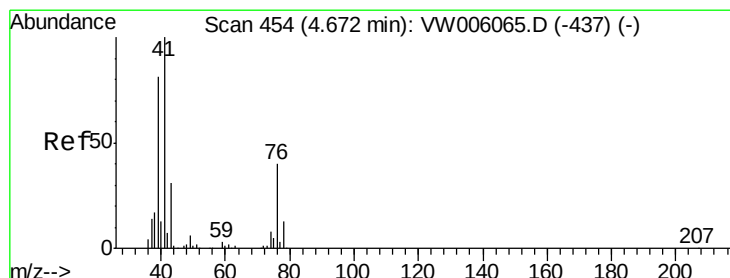
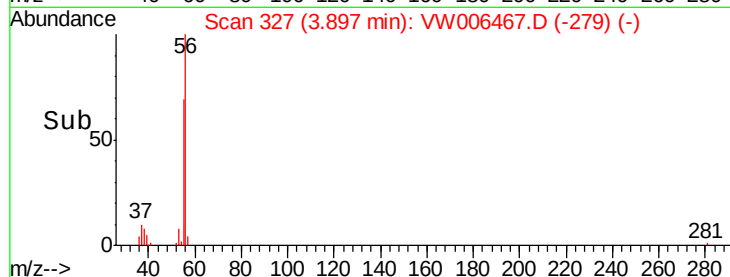
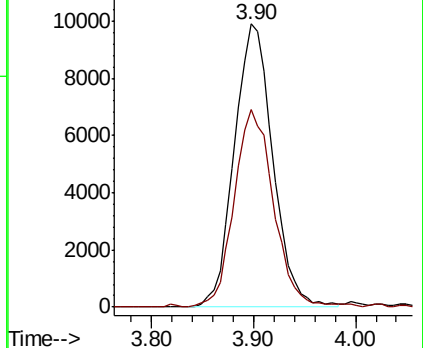
apatel

10/30/2018 2:16:15 PM



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 53.659 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

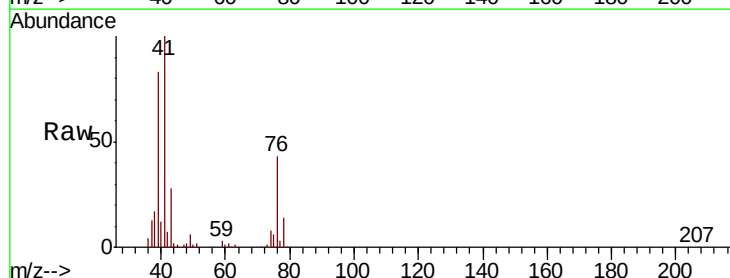
Tgt Ion: 41 Resp: 134044

Ion Ratio Lower Upper

41 100

39 79.6 64.1 96.1

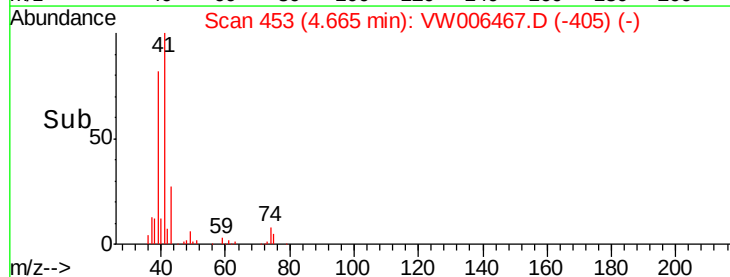
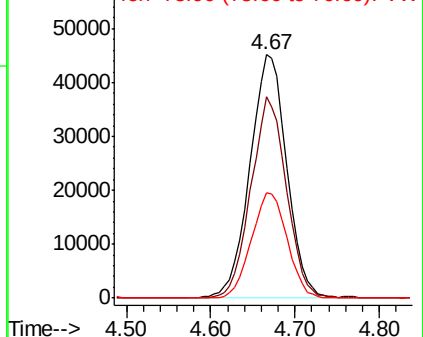
76 42.4 32.2 48.4

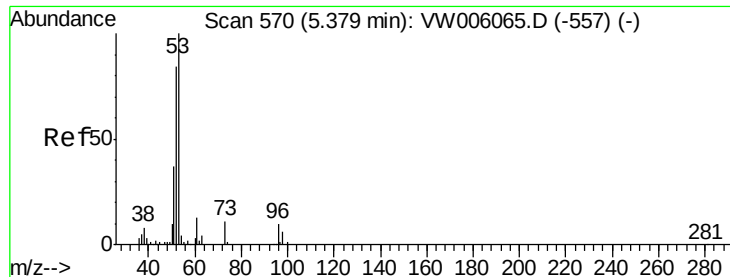


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





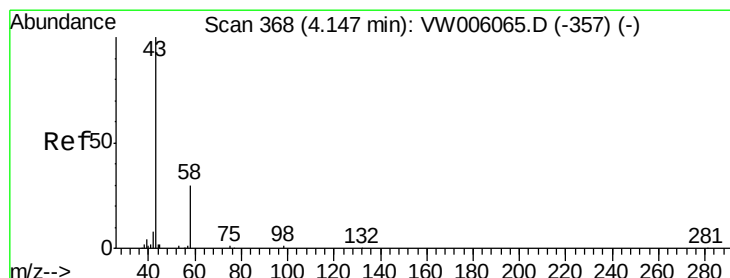
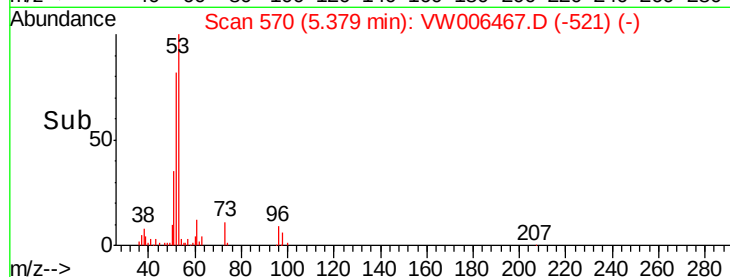
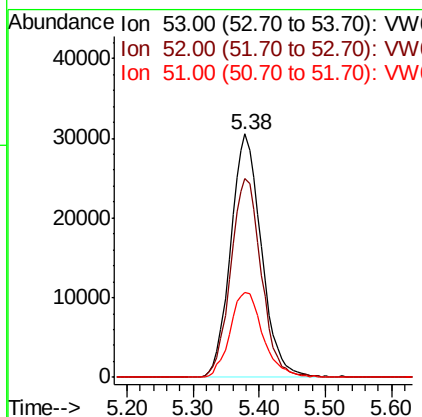
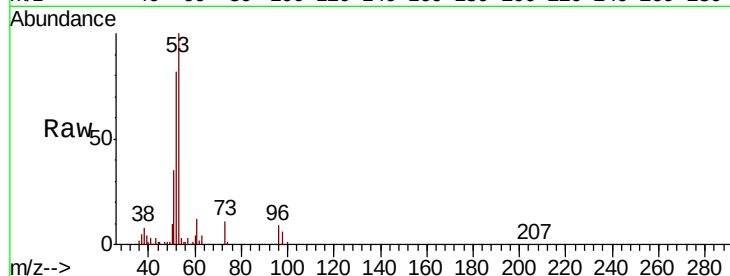
#15
 Acrylonitrile
 Concen: 290.943 ug/l
 RT: 5.38 min Scan# 570
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion:	53	Resp:	98274
Ion	Ratio	Lower	Upper
53	100		
52	81.4	66.9	100.3
51	37.5	30.1	45.1

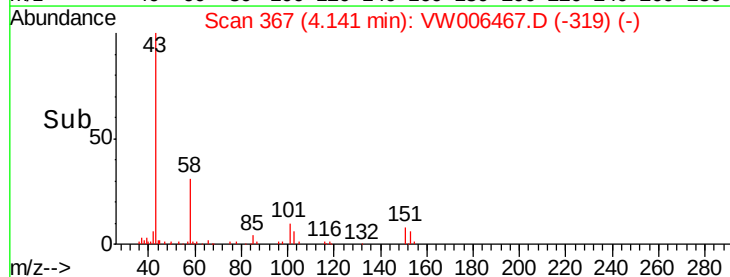
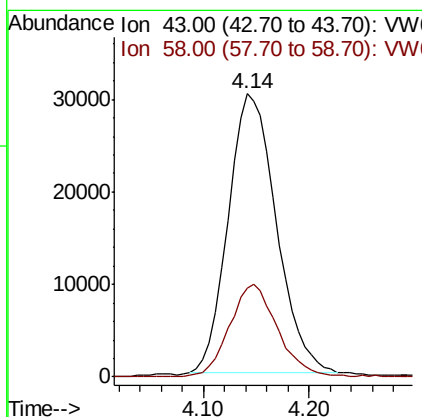
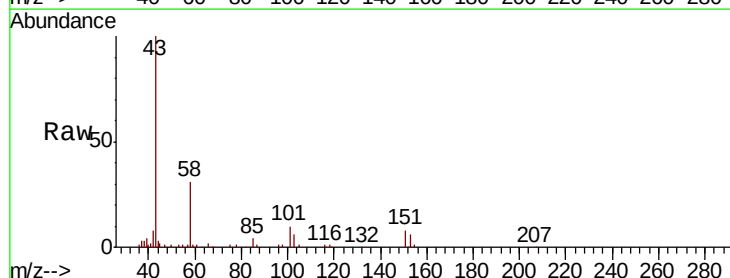
Manual Integrations
 APPROVED

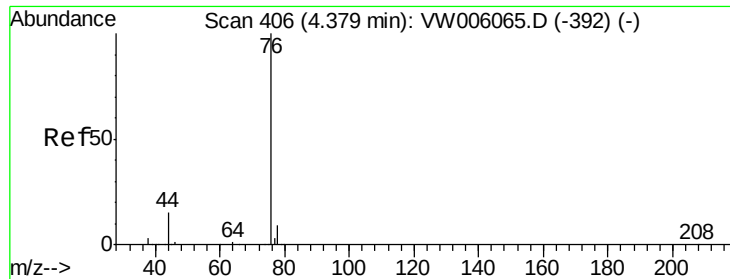
apatel
 10/30/2018 2:16:15 PM



#16
 Acetone
 Concen: 298.118 ug/l m
 RT: 4.14 min Scan# 367
 Delta R.T. -0.01 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Tgt Ion:	43	Resp:	96028
Ion	Ratio	Lower	Upper
43	100		
58	31.3	24.0	36.0





#17

Carbon Disulfide

Concen: 53.739 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 283354

Ion Ratio Lower Upper

76 100

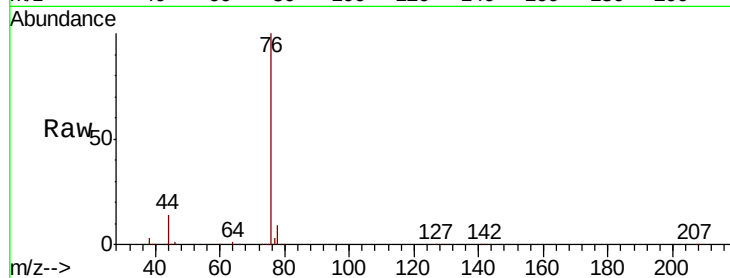
78 9.1 7.5 11.3

Manual Integrations

APPROVED

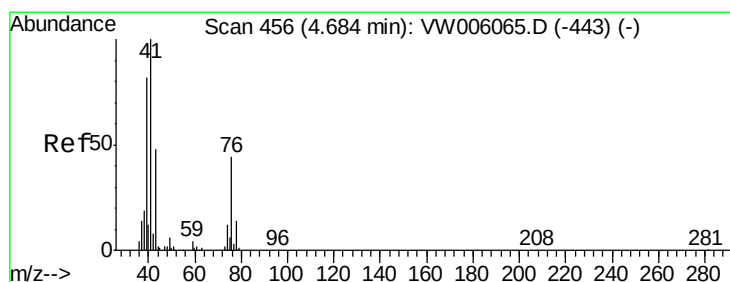
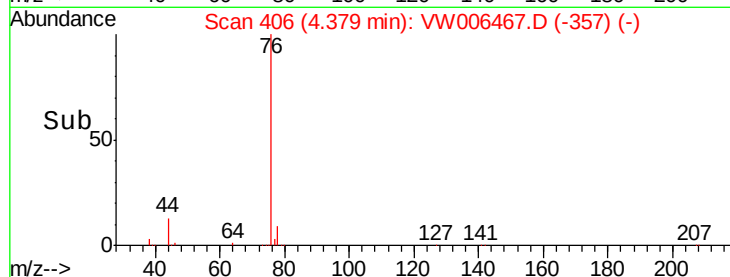
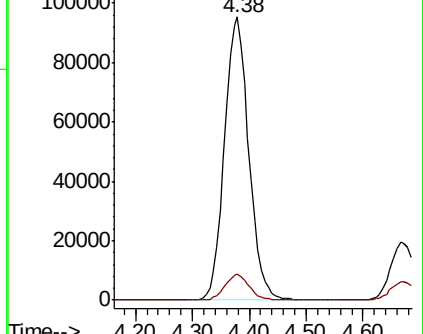
apatel

10/30/2018 2:16:15 PM



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 55.730 ug/l

RT: 4.68 min Scan# 456

Delta R.T. -0.01 min

Lab File: VW006467.D

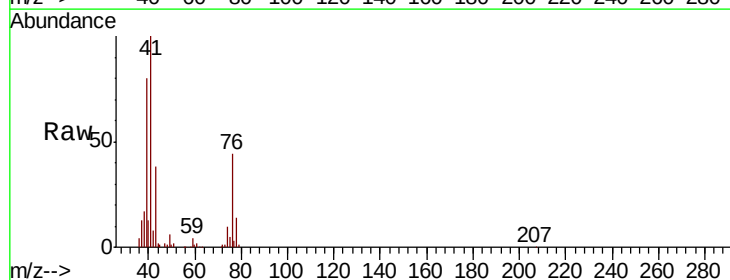
Acq: 29 Oct 2018 21:59

Tgt Ion: 43 Resp: 48618

Ion Ratio Lower Upper

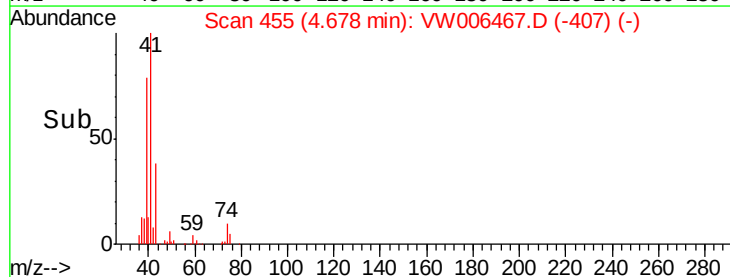
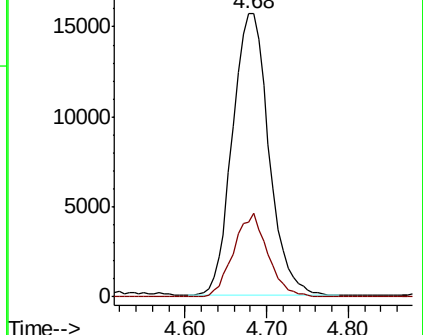
43 100

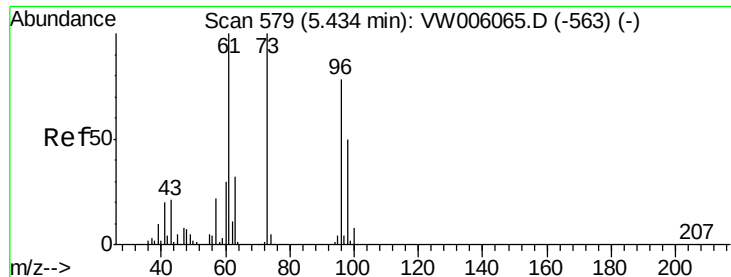
74 27.6 20.5 30.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW





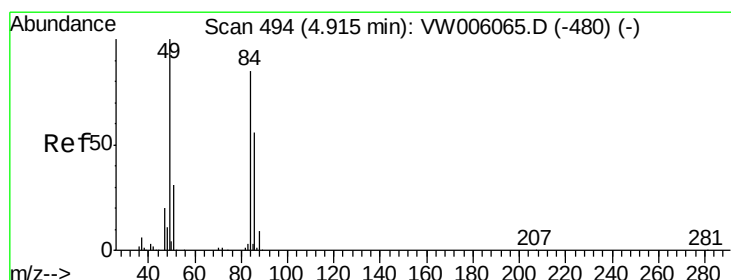
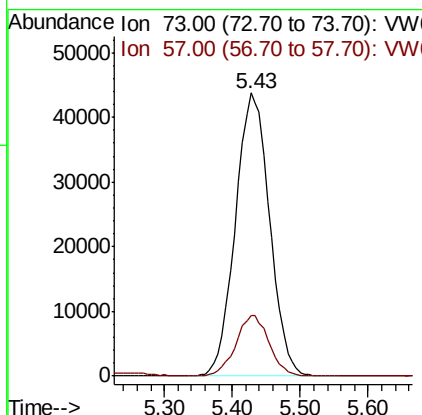
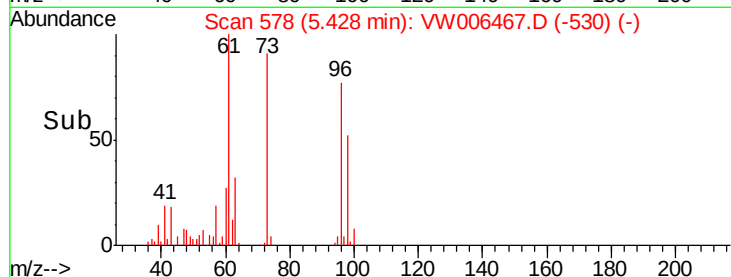
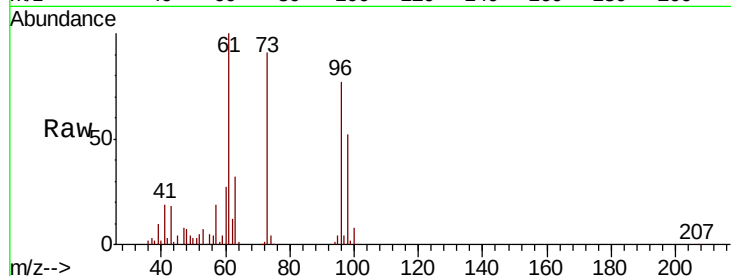
#19
Methyl tert-butyl Ether
Concen: 57.425 ug/l
RT: 5.43 min Scan# 578
Delta R.T. -0.01 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 152806
Ion Ratio Lower Upper
73 100
57 21.4 17.4 26.2

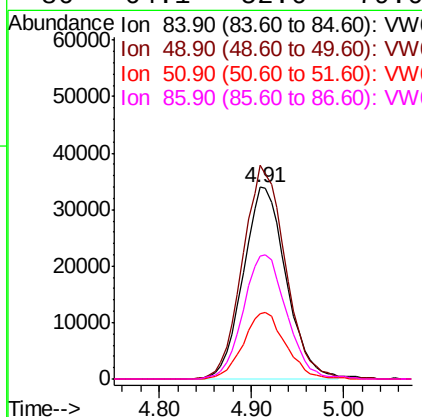
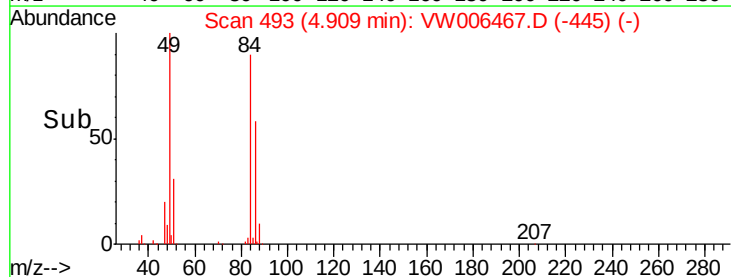
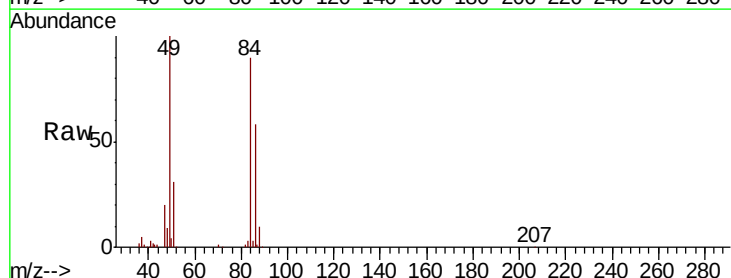
Manual Integrations
APPROVED

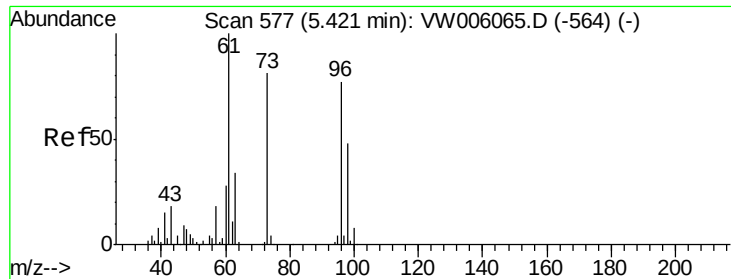
apatel
10/30/2018 2:16:15 PM



#20
Methylene Chloride
Concen: 60.386 ug/l m
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion: 84 Resp: 110144
Ion Ratio Lower Upper
84 100
49 111.4 93.6 140.4
51 34.2 29.0 43.4
86 64.1 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 58.770 ug/l

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

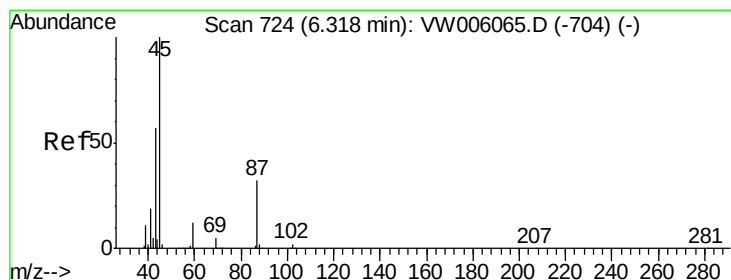
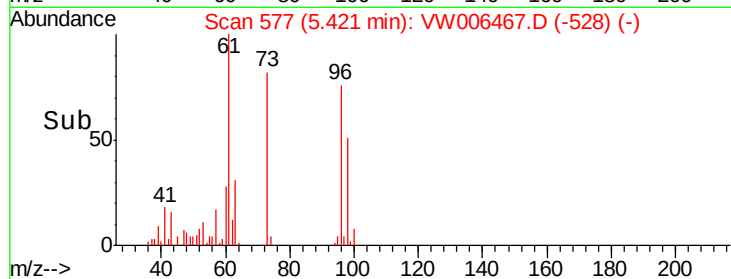
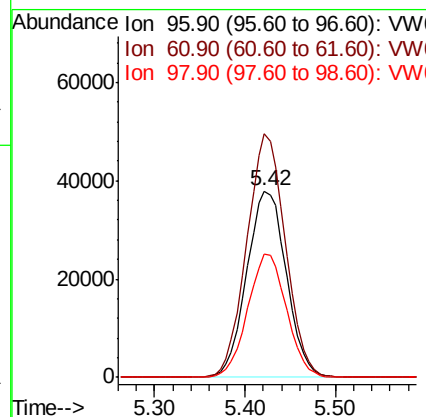
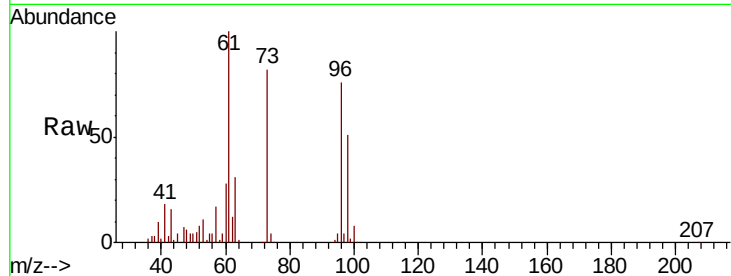
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	114607
Ion	Ratio	Lower	Upper
96	100		
61	130.8	104.5	156.7
98	66.5	50.6	75.8

Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM



#22

Diisopropyl ether

Concen: 57.138 ug/l

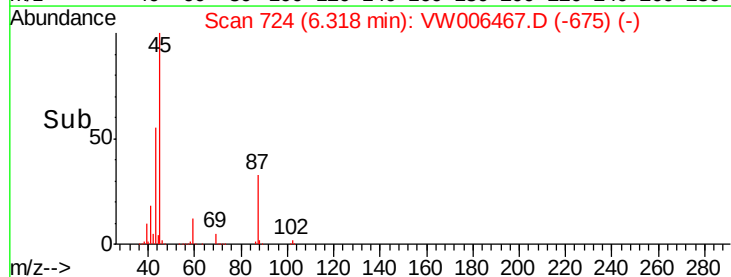
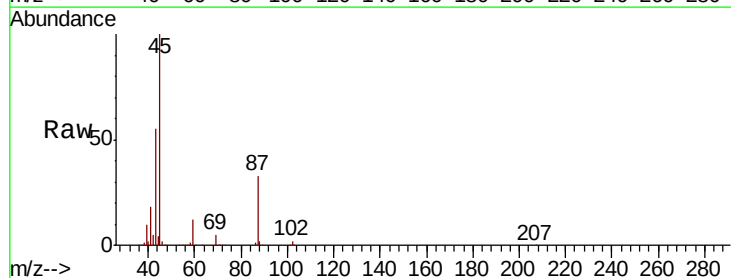
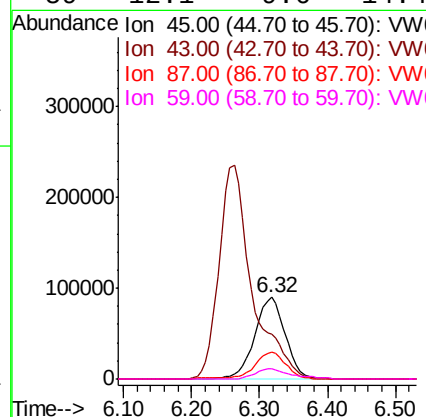
RT: 6.32 min Scan# 724

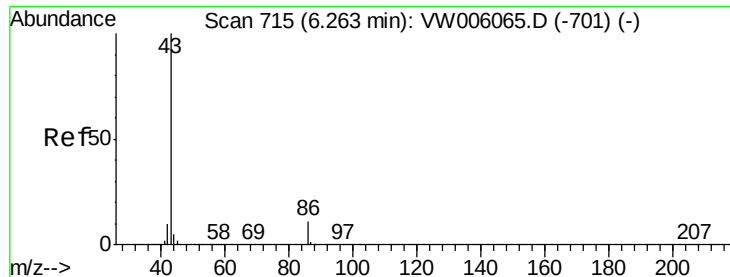
Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Tgt Ion:	45	Resp:	282062
Ion	Ratio	Lower	Upper
45	100		
43	54.1	45.7	68.5
87	32.5	25.9	38.9
59	12.1	9.6	14.4





#23

Vinyl Acetate

Concen: 273.592 ug/l

RT: 6.26 min Scan# 715

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 797058

Ion Ratio Lower Upper

43 100

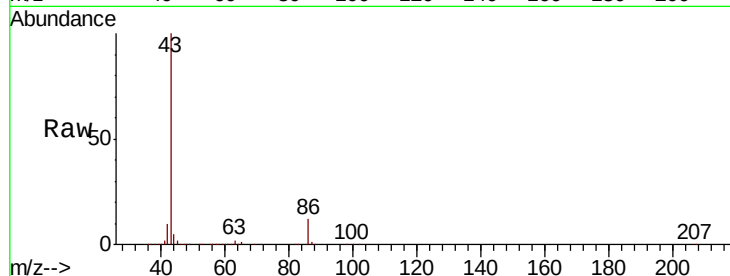
86 11.8 9.0 13.6

Manual Integrations

APPROVED

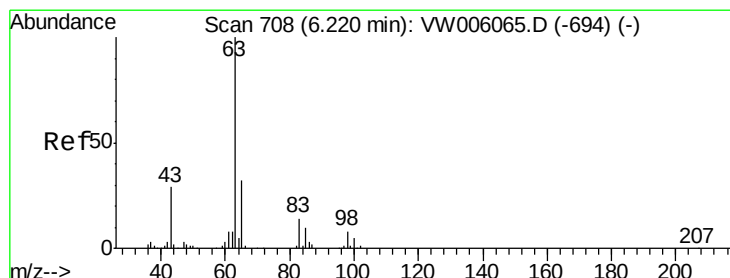
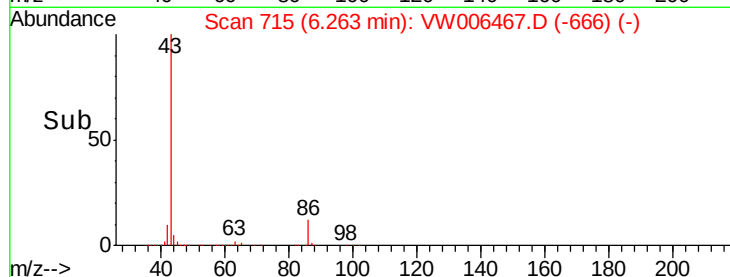
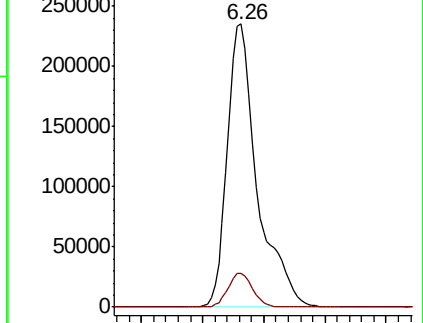
apatel

10/30/2018 2:16:15 PM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 59.486 ug/l

RT: 6.22 min Scan# 708

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

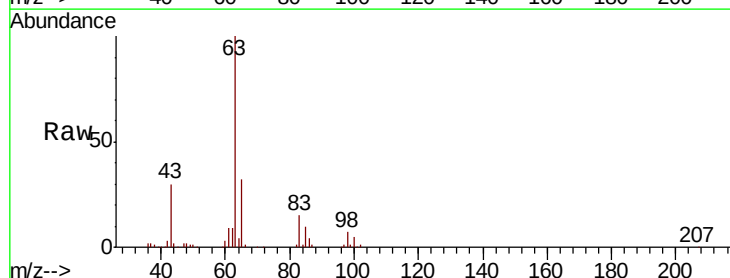
Tgt Ion: 63 Resp: 189484

Ion Ratio Lower Upper

63 100

98 7.2 3.8 11.2

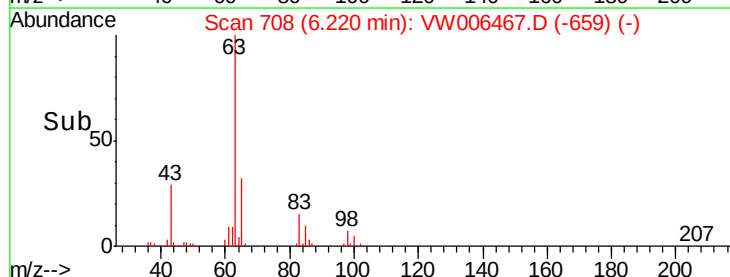
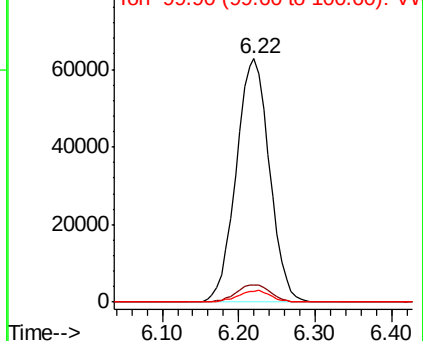
100 4.5 2.5 7.5

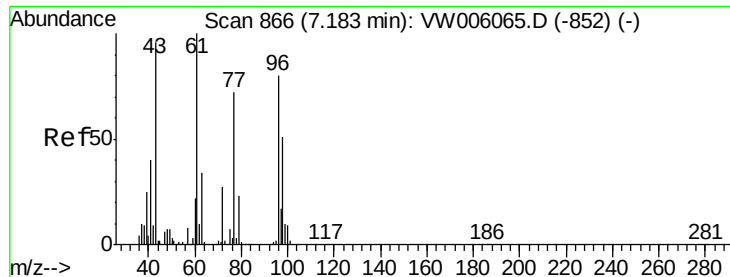


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 282.228 ug/l

RT: 7.18 min Scan# 866

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 132171

Ion Ratio Lower Upper

43 100

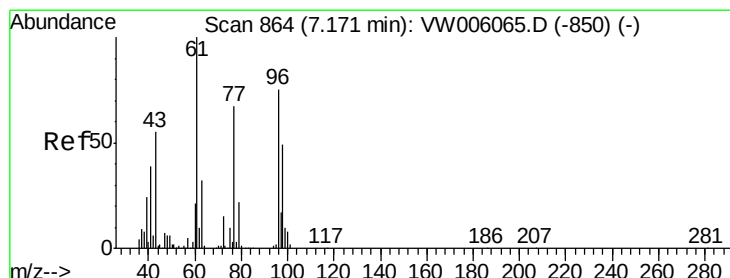
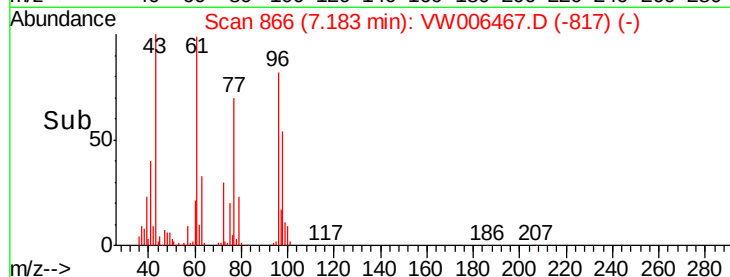
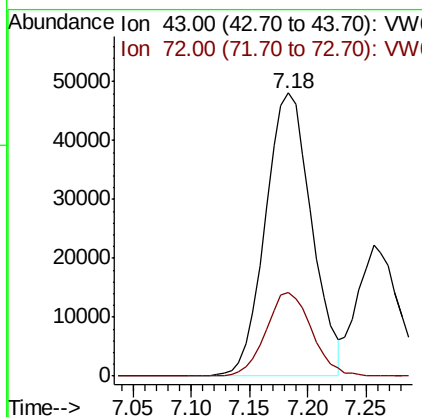
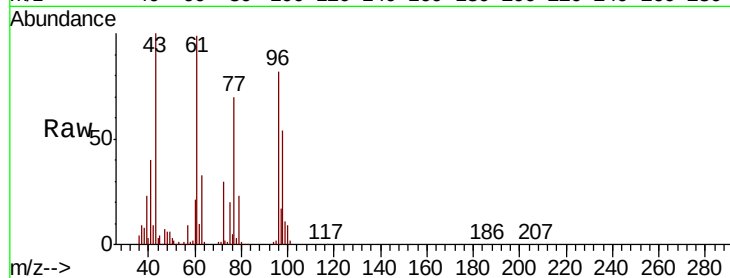
72 29.8 22.8 34.2

Manual Integrations

APPROVED

apatel

10/30/2018 2:16:15 PM



#26

2,2-Dichloropropane

Concen: 55.505 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW006467.D

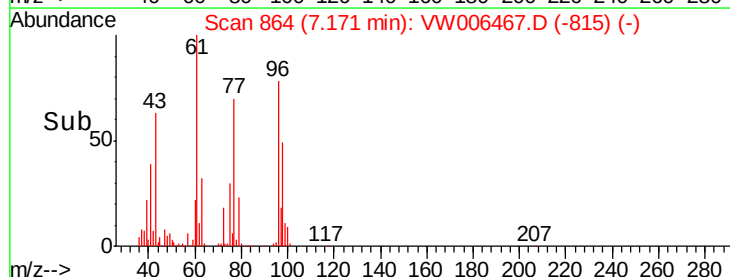
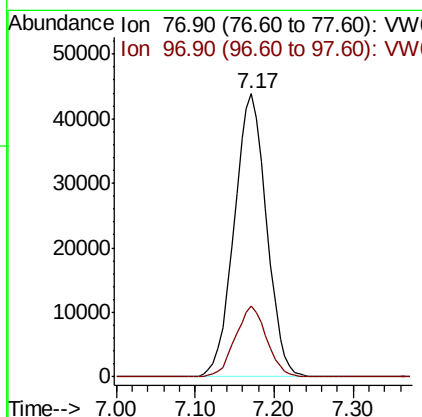
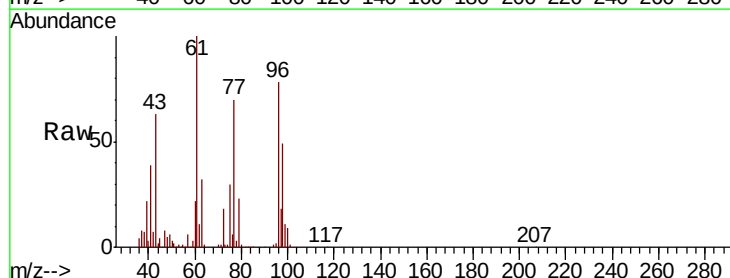
Acq: 29 Oct 2018 21:59

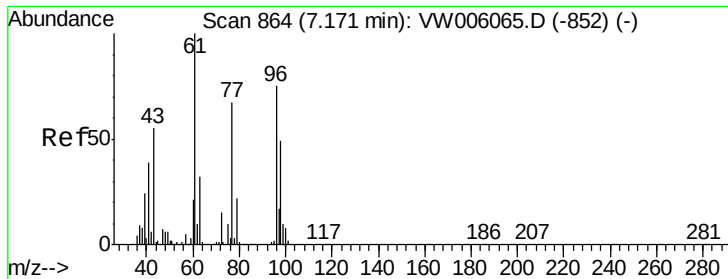
Tgt Ion: 77 Resp: 124699

Ion Ratio Lower Upper

77 100

97 24.2 12.2 36.4





#27

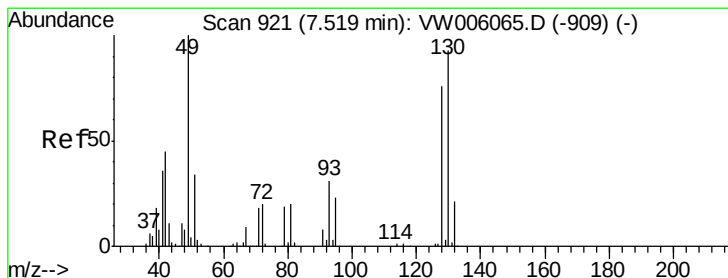
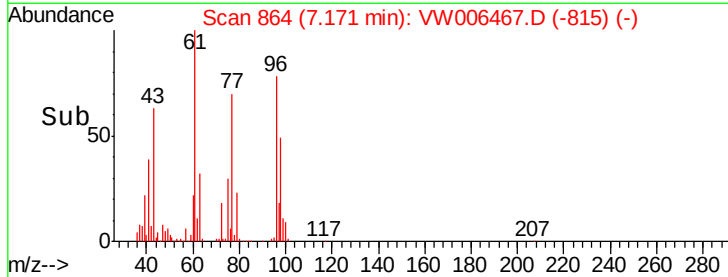
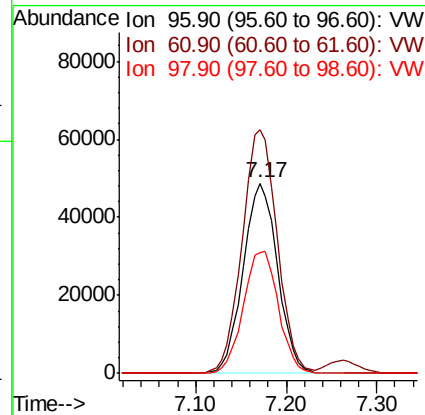
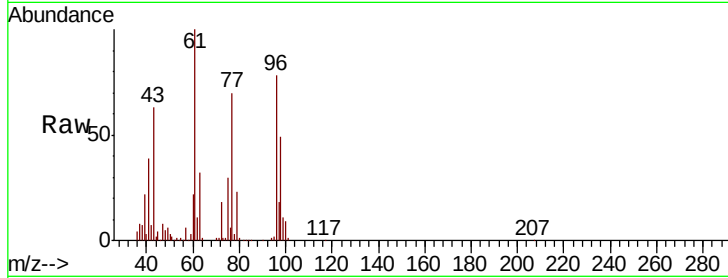
cis-1,2-Dichloroethene
 Concen: 59.416 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.9	0.0	267.2
98	65.4	0.0	128.6

Manual Integrations
 APPROVED

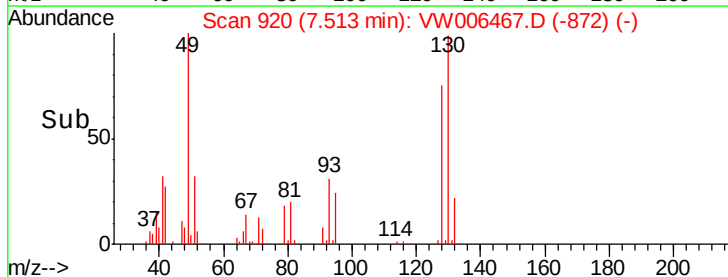
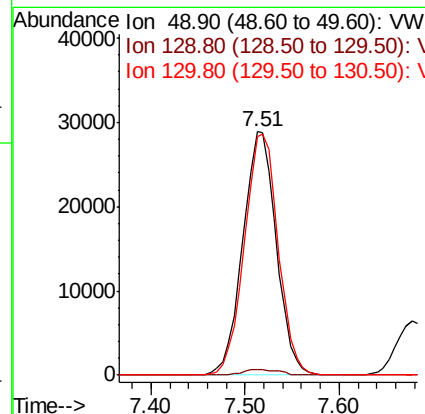
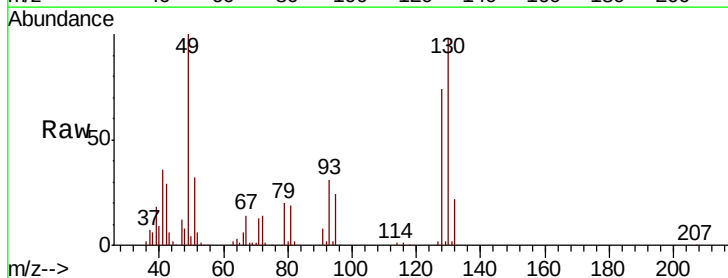
apatel
 10/30/2018 2:16:15 PM

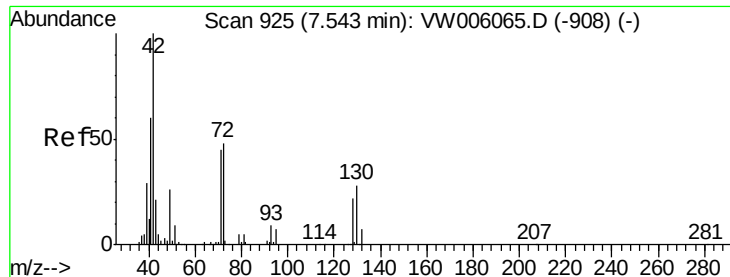


#28

Bromochloromethane
 Concen: 58.340 ug/l
 RT: 7.51 min Scan# 920
 Delta R.T. -0.01 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	5.0
130	99.8	73.8	110.8





#29

Tetrahydrofuran

Concen: 272.694 ug/l

RT: 7.54 min Scan# 924

Delta R.T. -0.01 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

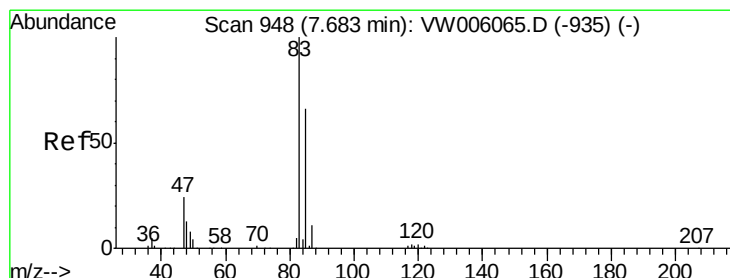
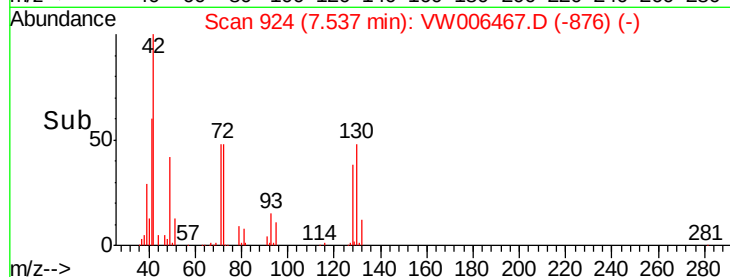
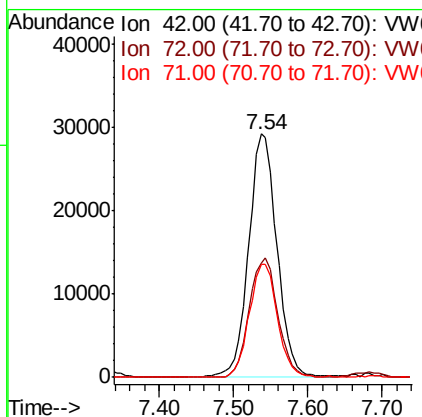
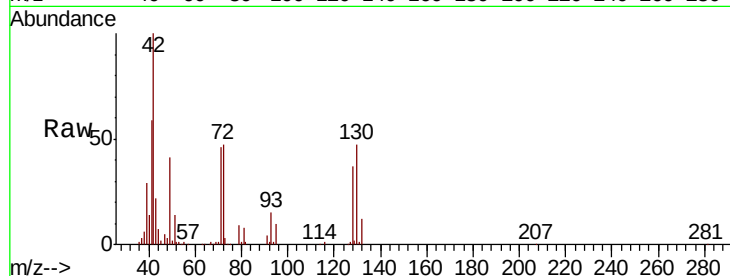
ClientSampleId :

VSTDCCC050

Tot Ion:	42	Resp:	78498
Ion Ratio		Lower	Upper
42	100		
72	49.4	38.0	57.0
71	46.2	35.3	52.9

Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM



#30

Chloroform

Concen: 59.808 ug/l

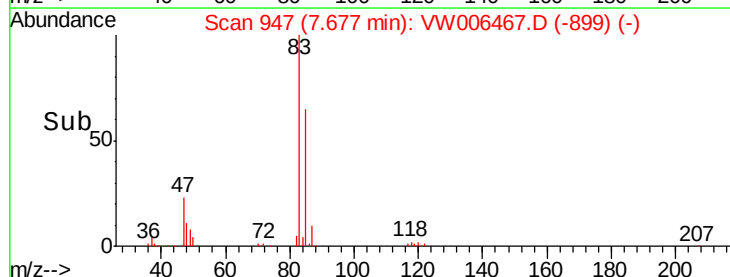
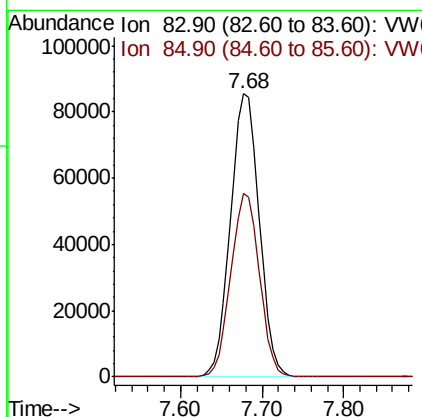
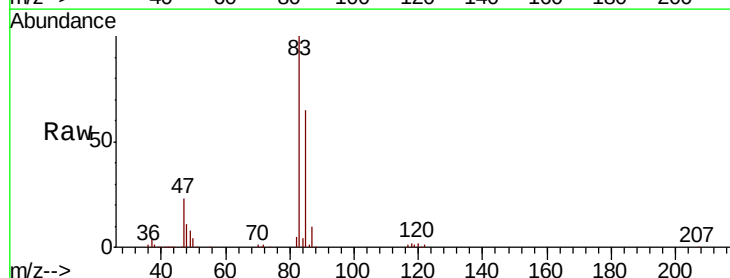
RT: 7.68 min Scan# 947

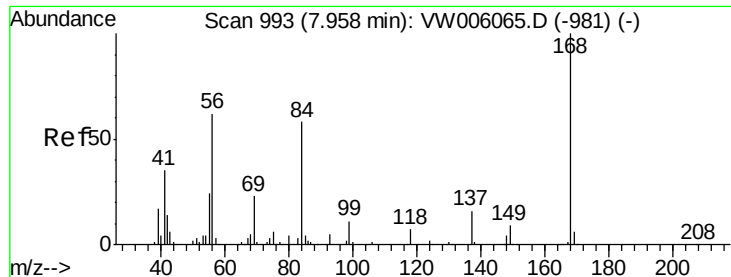
Delta R.T. -0.01 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Tgt Ion:	83	Resp:	207560
Ion Ratio		Lower	Upper
83	100		
85	64.7	52.6	79.0





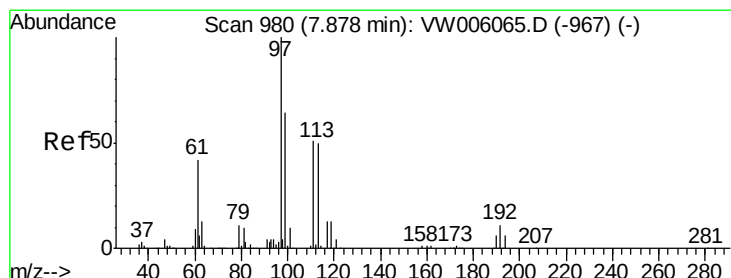
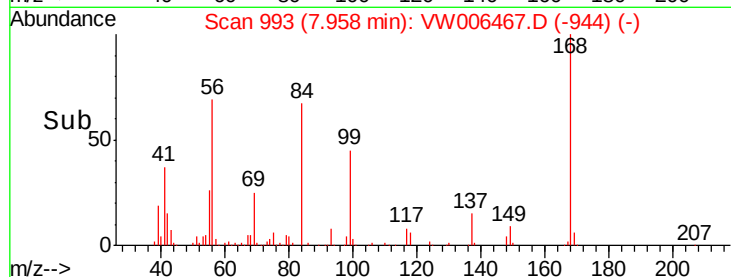
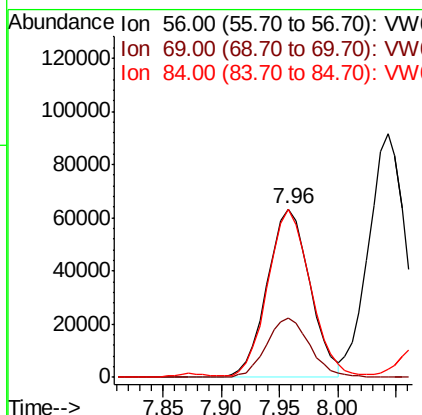
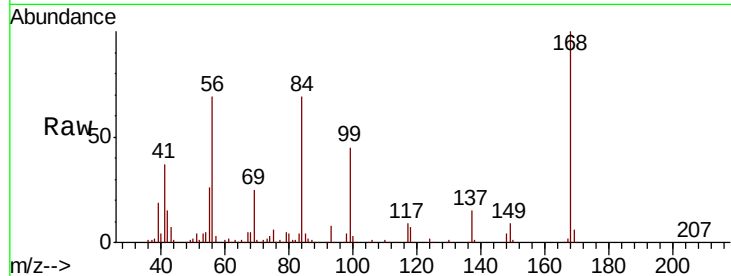
#31
Cyclohexane
Concen: 50.783 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.3	29.4	44.0
84	97.7	74.0	111.0

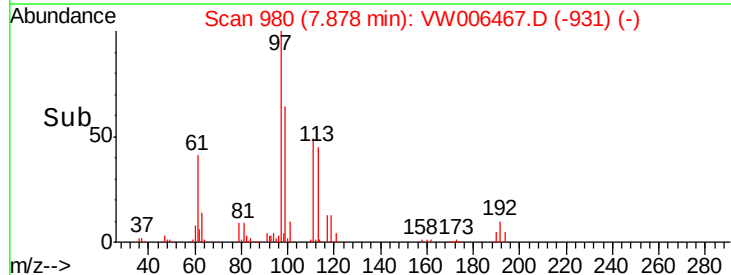
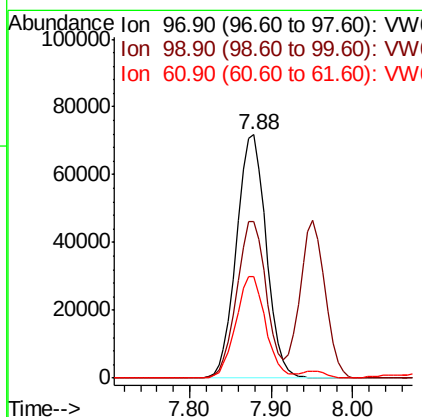
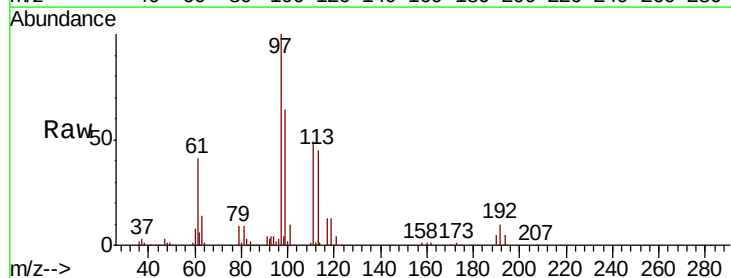
Manual Integrations
APPROVED

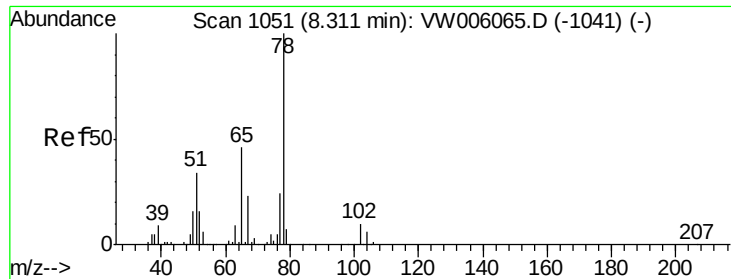
apatel
10/30/2018 2:16:15 PM



#32
1,1,1-Trichloroethane
Concen: 57.896 ug/l
RT: 7.88 min Scan# 980
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	50.9	76.3
61	41.8	33.7	50.5





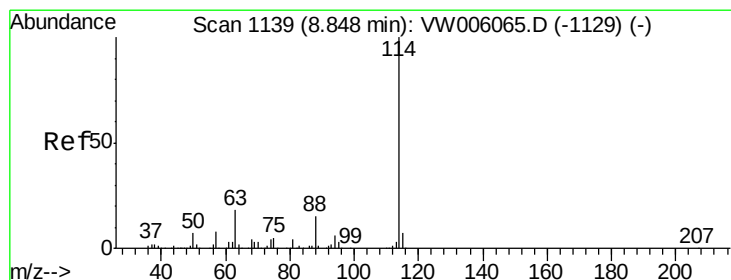
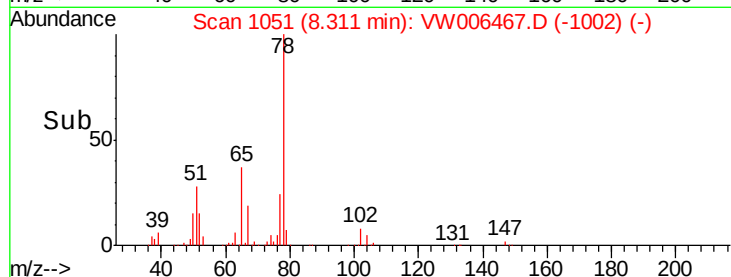
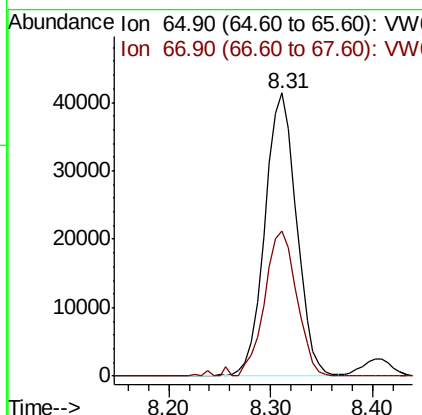
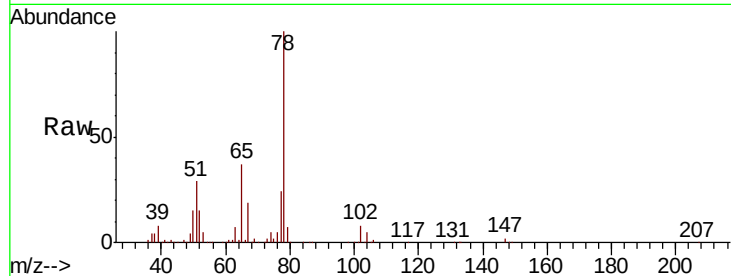
#33
 1,2-Dichloroethane-d4
 Concen: 51.232 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	101.0

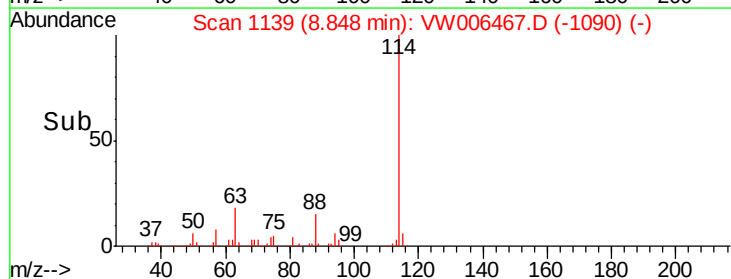
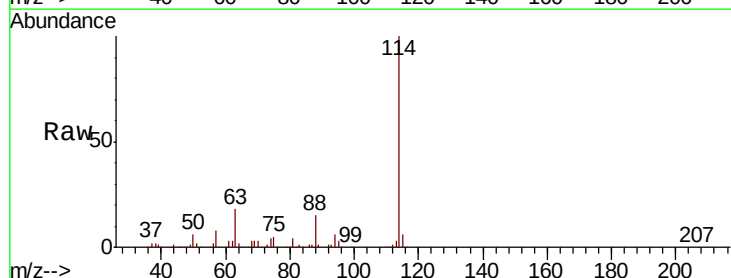
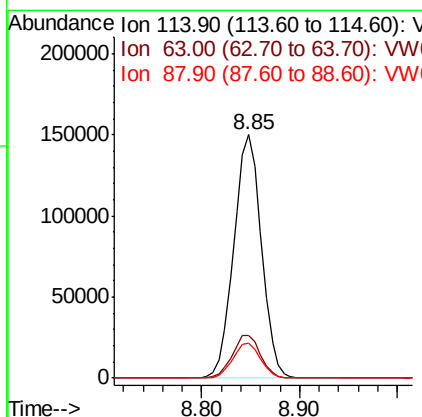
Manual Integrations
 APPROVED

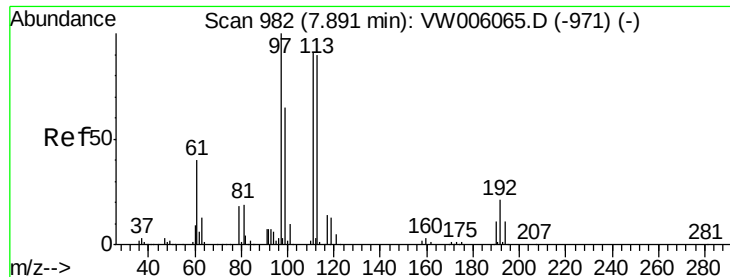
apatel
 10/30/2018 2:16:15 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	36.8
88	14.6	0.0	29.0





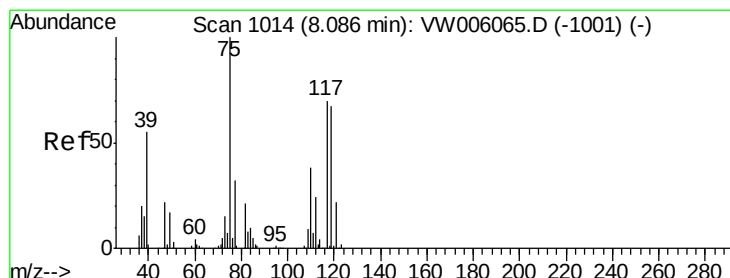
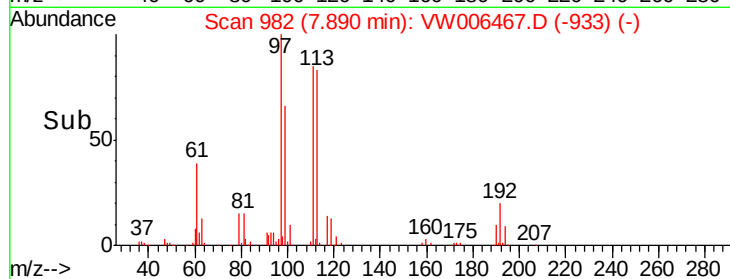
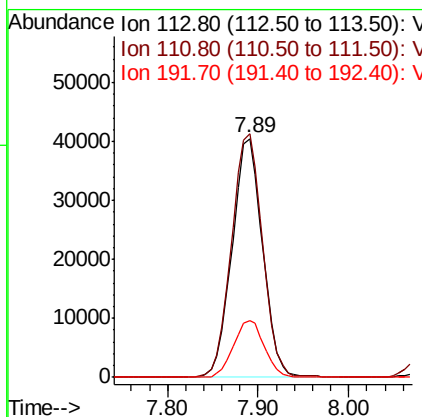
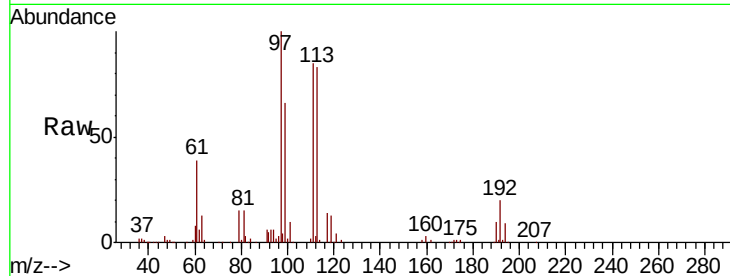
#35
 Dibromofluoromethane
 Concen: 54.422 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.4	122.0
192	23.9	18.7	28.1

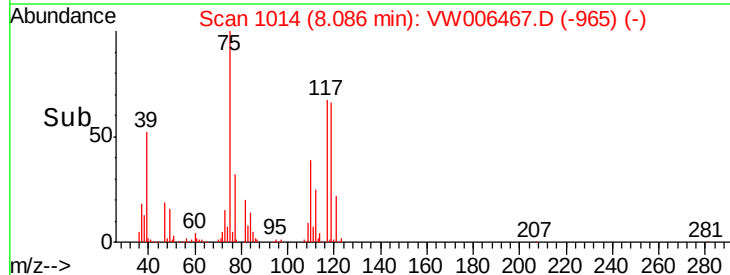
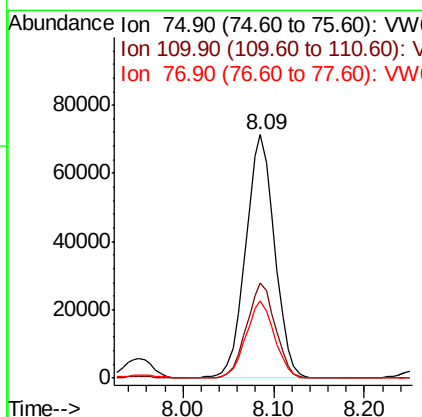
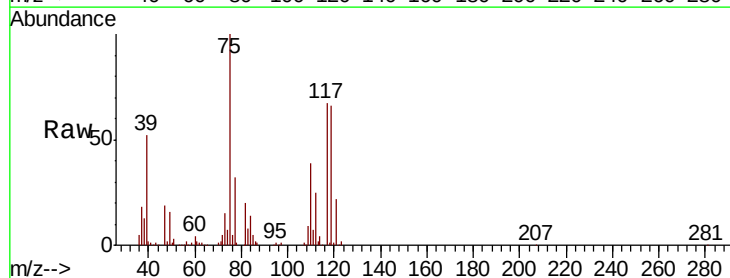
Manual Integrations
 APPROVED

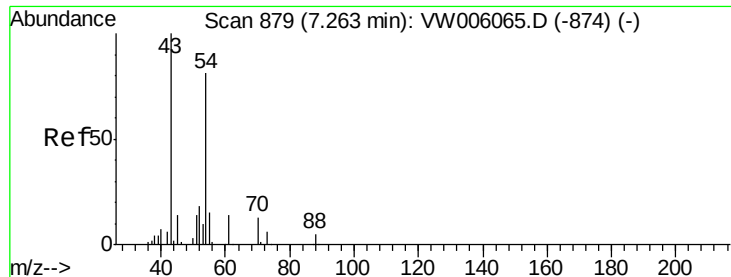
apatel
 10/30/2018 2:16:15 PM



#36
 1,1-Dichloropropene
 Concen: 58.139 ug/l
 RT: 8.09 min Scan# 1014
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.8	19.1	57.1
77	31.4	25.0	37.4





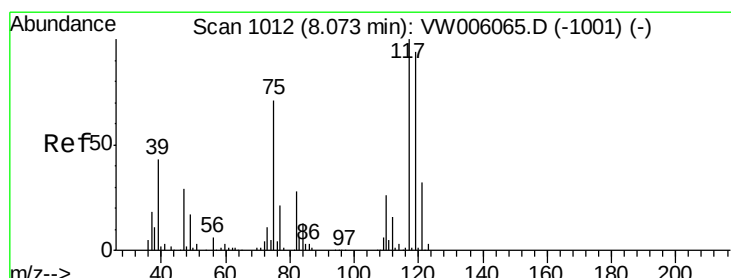
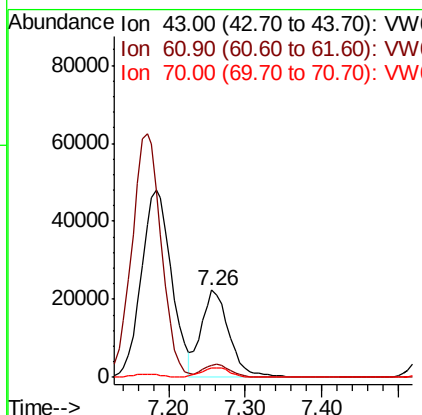
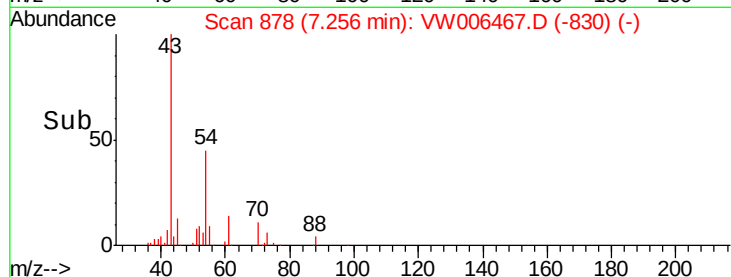
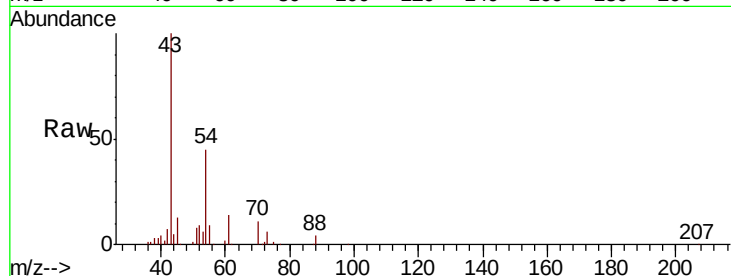
#37
Ethyl Acetate
Concen: 56.719 ug/l
RT: 7.26 min Scan# 878
Delta R.T. -0.01 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.3	11.5	17.3
70	11.4	9.2	13.8

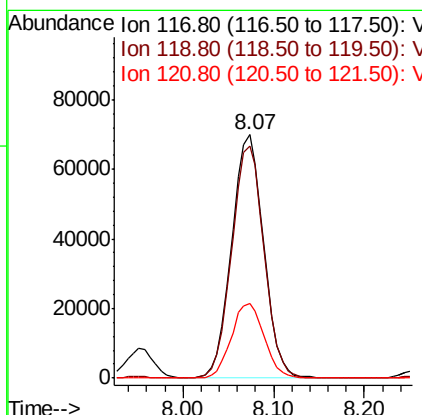
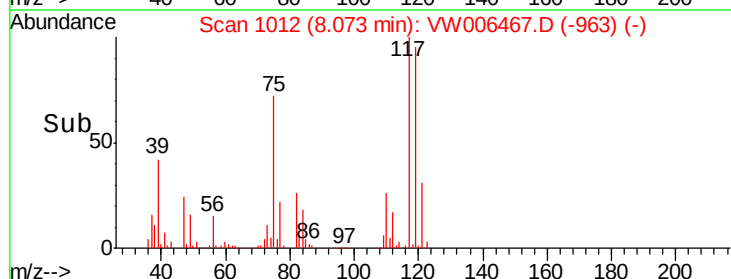
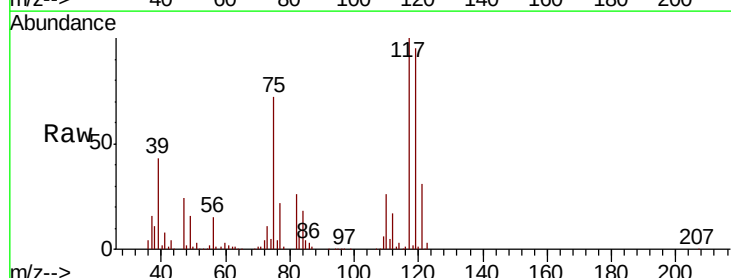
Manual Integrations
APPROVED

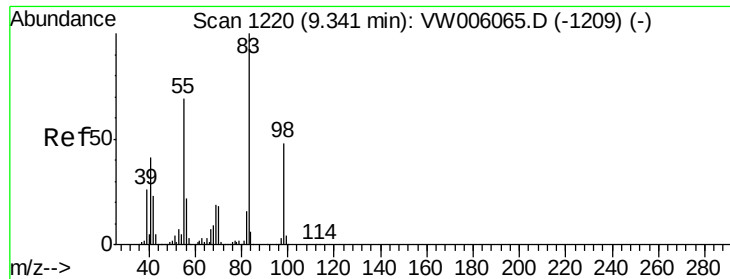
apatel
10/30/2018 2:16:15 PM



#38
Carbon Tetrachloride
Concen: 57.735 ug/l
RT: 8.07 min Scan# 1012
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.2	75.2	112.8
121	30.8	25.3	37.9





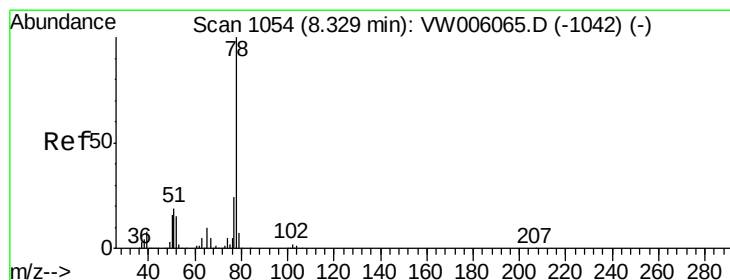
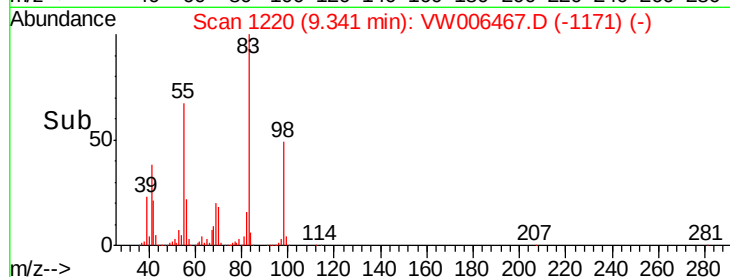
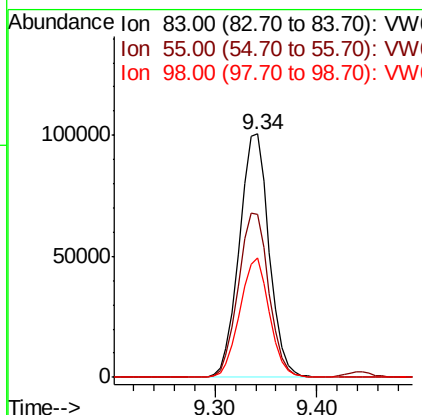
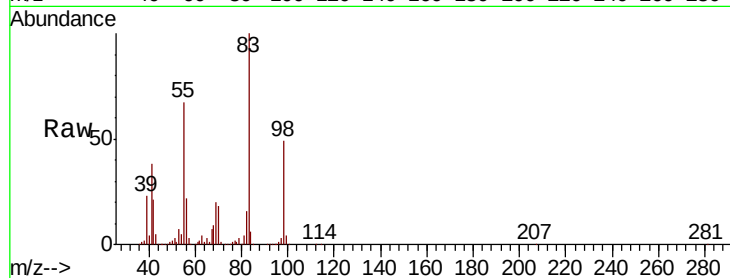
#39
Methylvlcyclohexane
Concen: 56.772 ug/l
RT: 9.34 min Scan# 1220
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	67.2	55.0	82.6
98	49.0	38.6	57.8

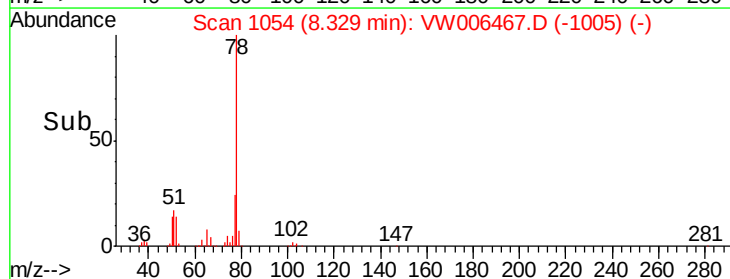
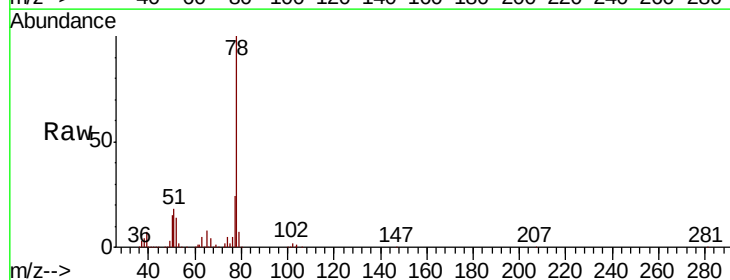
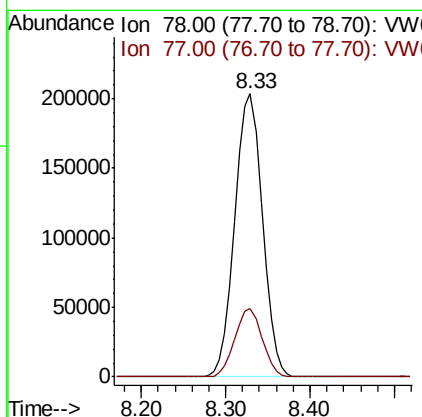
Manual Integrations
APPROVED

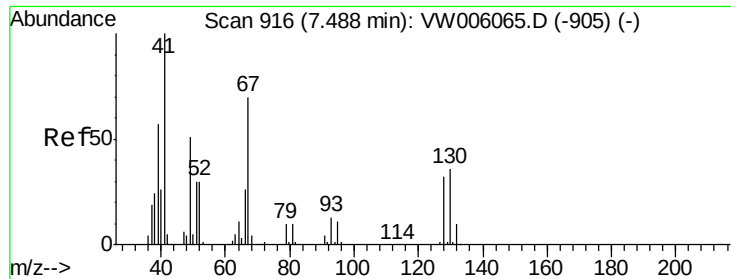
apatel
10/30/2018 2:16:15 PM



#40
Benzene
Concen: 60.820 ug/l
RT: 8.33 min Scan# 1054
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.4	29.0





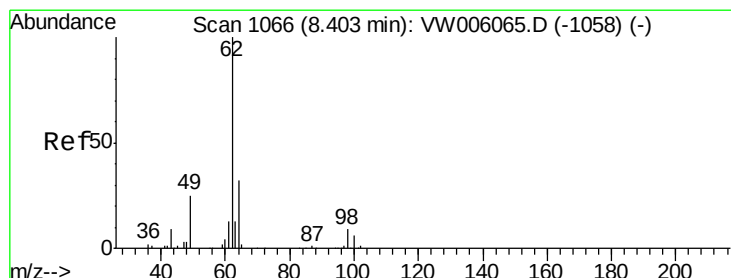
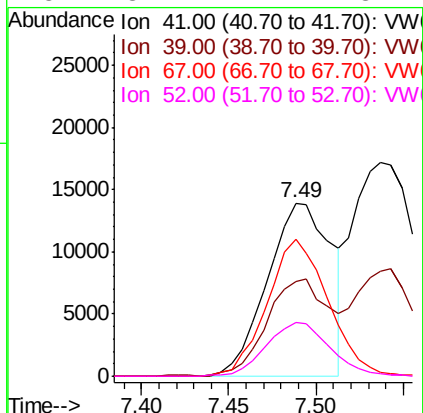
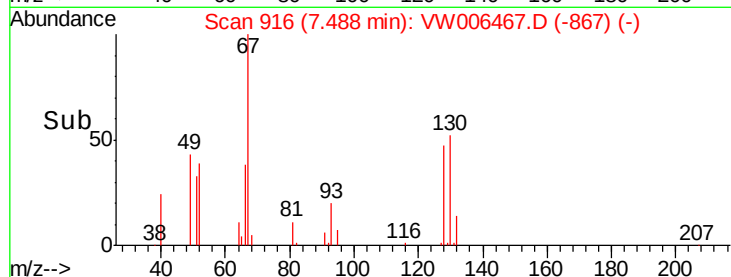
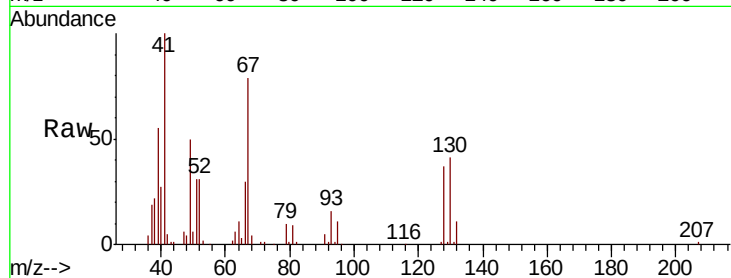
#41
Methacrylonitrile
Concen: 58.741 ug/l
RT: 7.49 min Scan# 916
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	54.5	46.2	69.4
67	75.4	57.7	86.5
52	31.2	24.7	37.1

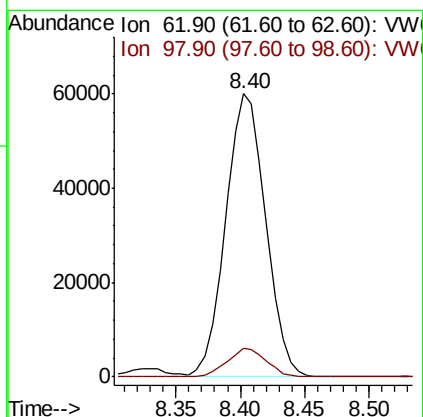
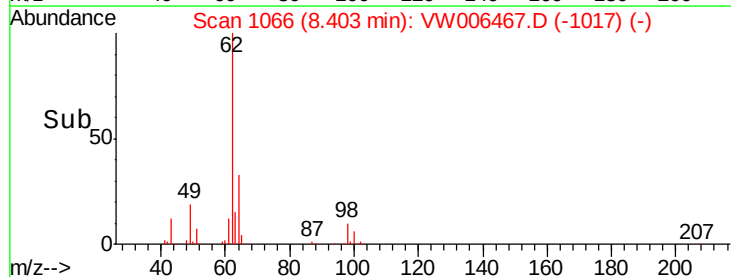
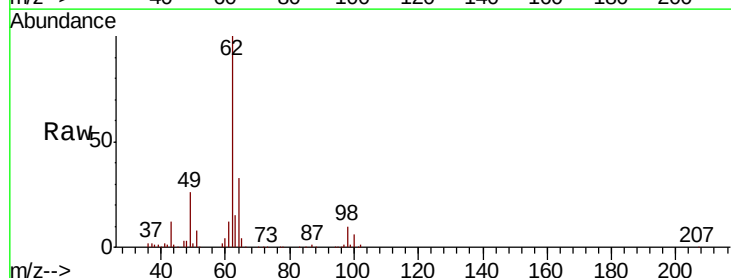
Manual Integrations
APPROVED

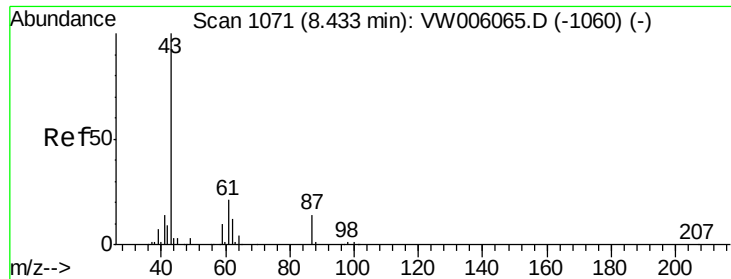
apatel
10/30/2018 2:16:15 PM



#42
1,2-Dichloroethane
Concen: 59.488 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	18.4





#43

Isopropyl Acetate

Concen: 53.783 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. -0.01 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

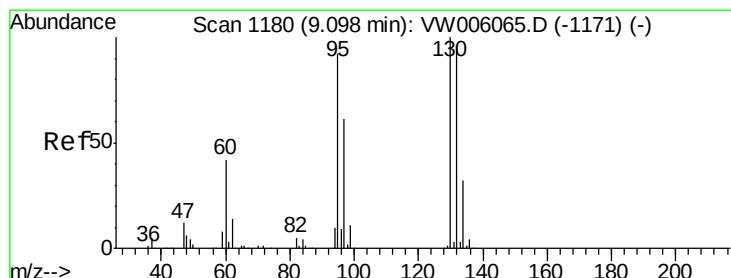
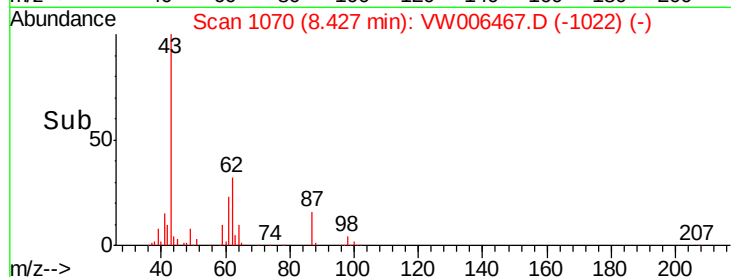
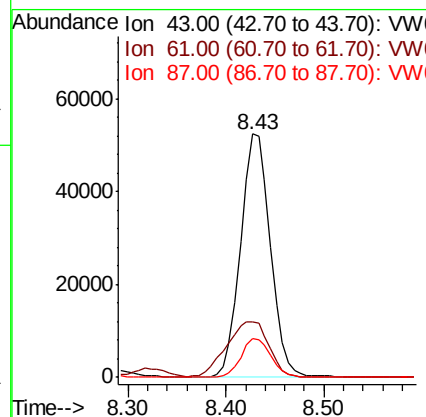
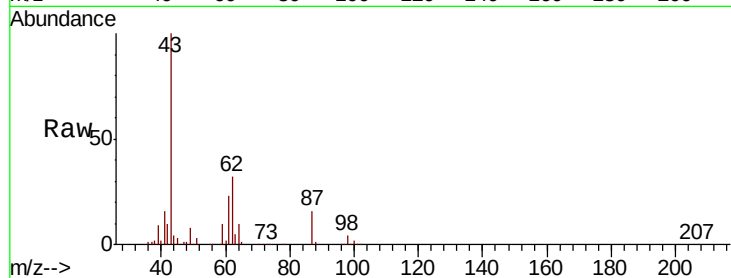
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	110461
Ion	Ratio	Lower	Upper
43	100		
61	32.6	25.5	38.3
87	15.9	11.7	17.5

Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM



#44

Trichloroethene

Concen: 60.739 ug/l

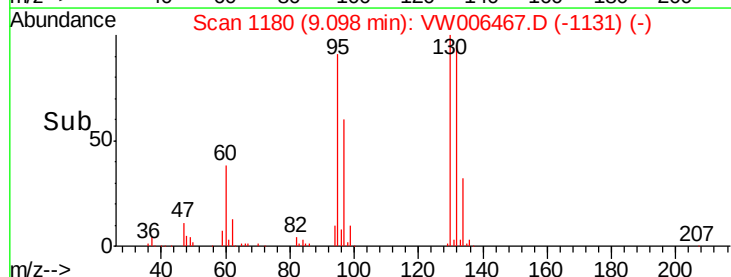
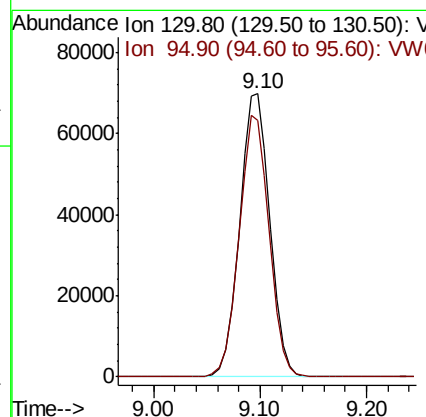
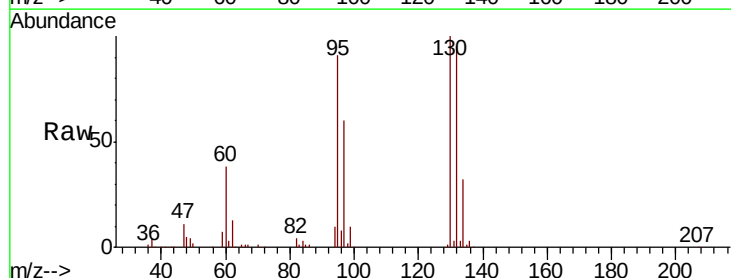
RT: 9.10 min Scan# 1180

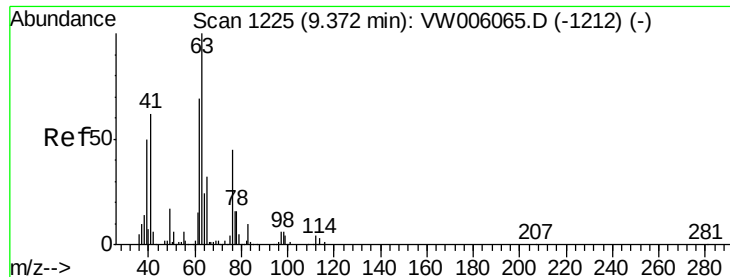
Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Tgt Ion:	130	Resp:	138200
Ion	Ratio	Lower	Upper
130	100		
95	90.6	0.0	183.2





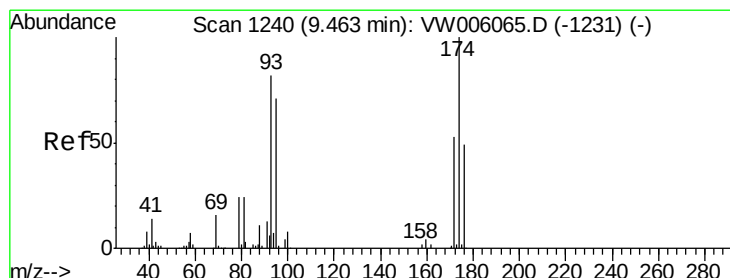
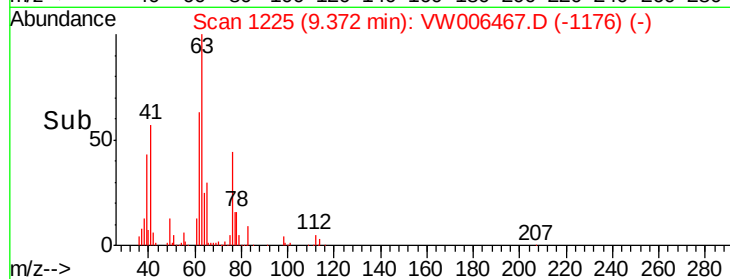
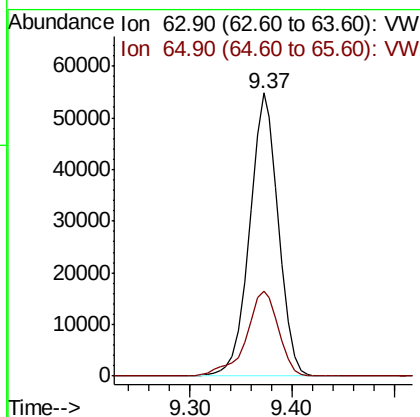
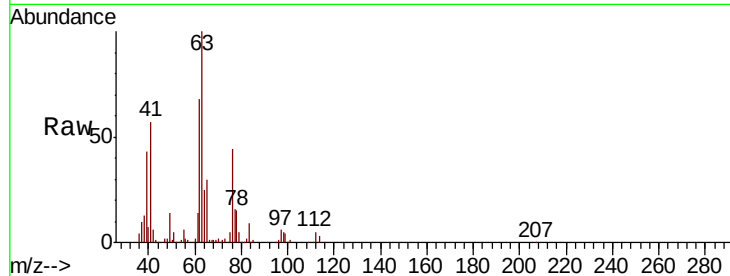
#45
 1,2-Dichloropropane
 Concen: 60.405 ug/l
 RT: 9.37 min Scan# 1225
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.9	25.4	38.0

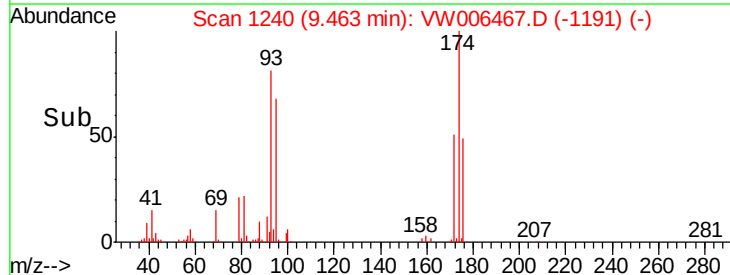
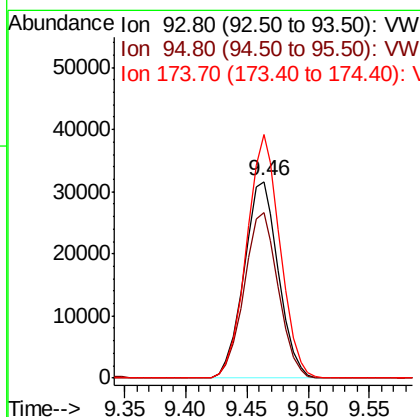
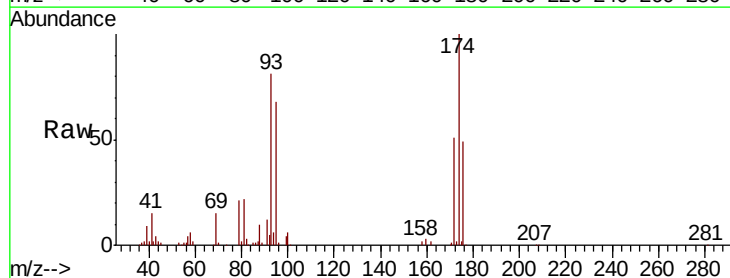
Manual Integrations
 APPROVED

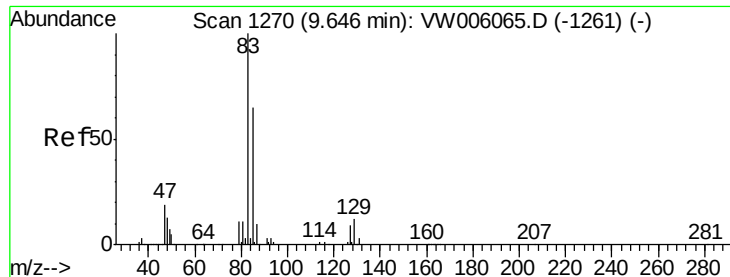
apatel
 10/30/2018 2:16:15 PM



#46
 Dibromomethane
 Concen: 60.972 ug/l
 RT: 9.46 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.0	67.7	101.5
174	120.6	93.7	140.5





#47

Bromodichloromethane

Concen: 60.176 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

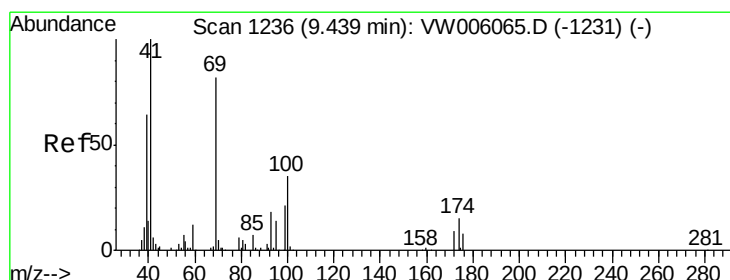
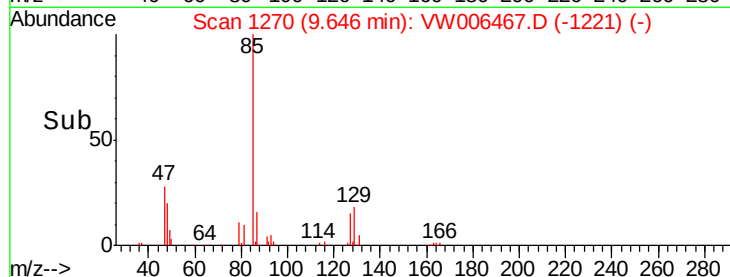
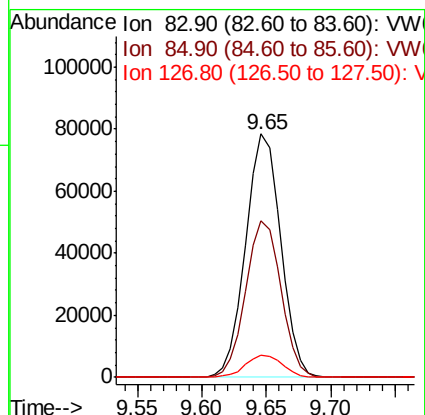
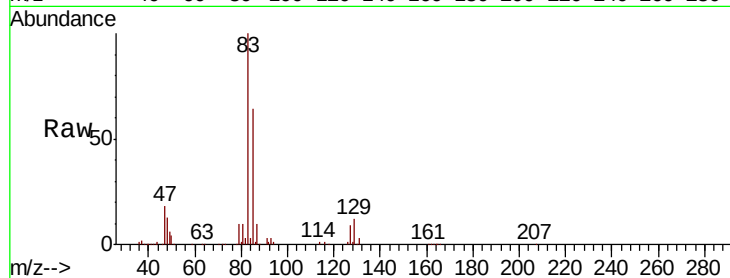
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	147568
Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.8	77.8
127	9.4	6.9	10.3

Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM



#48

Methyl methacrylate

Concen: 56.229 ug/l

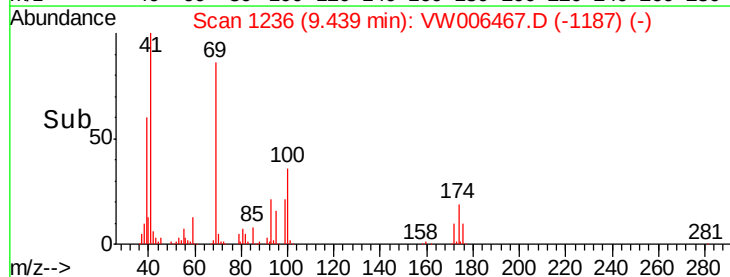
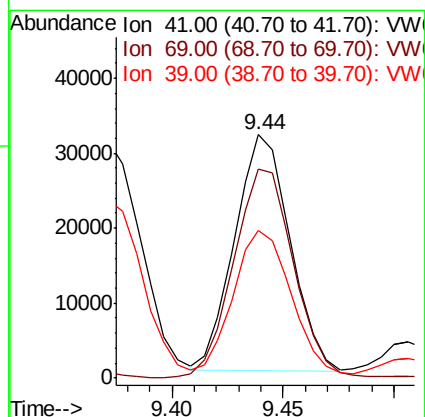
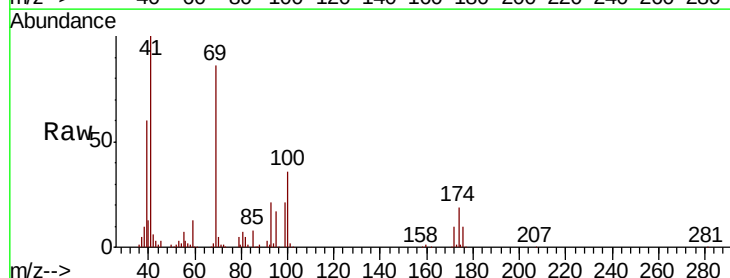
RT: 9.44 min Scan# 1236

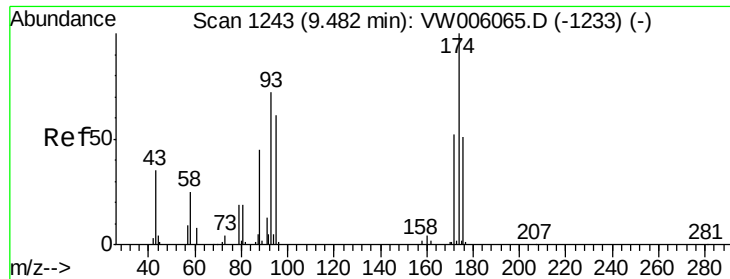
Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Tgt Ion:	41	Resp:	54742
Ion	Ratio	Lower	Upper
41	100		
69	96.8	71.8	107.8
39	62.0	52.5	78.7





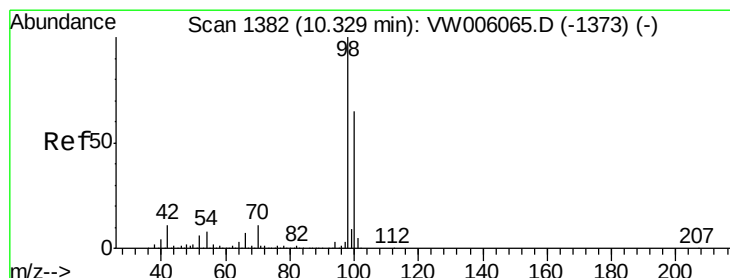
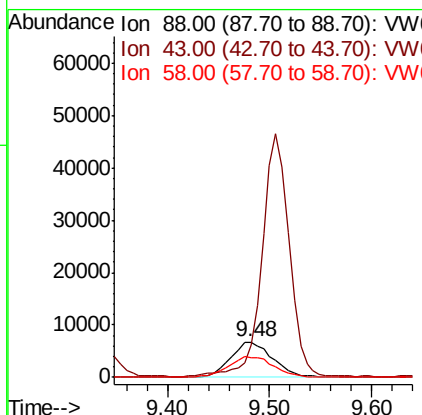
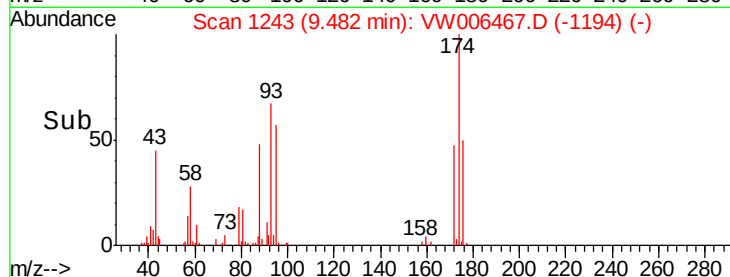
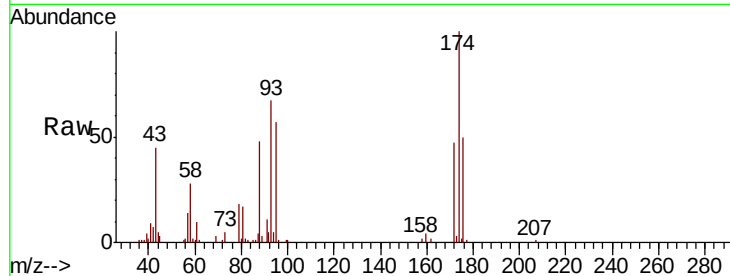
#49
1,4-Dioxane
Concen: 1227.776 ug/l
RT: 9.48 min Scan# 1243
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	64.4	51.2	76.8

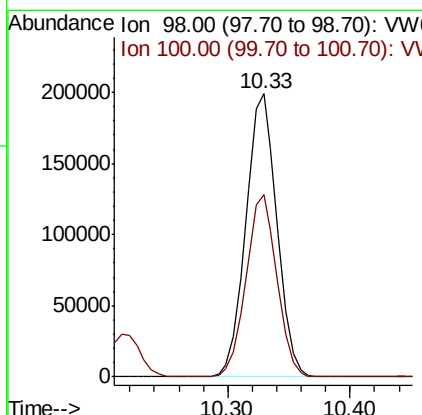
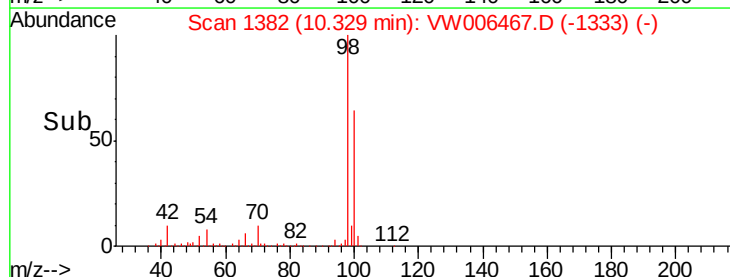
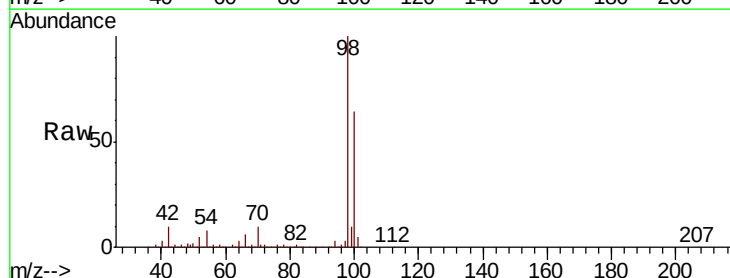
Manual Integrations
APPROVED

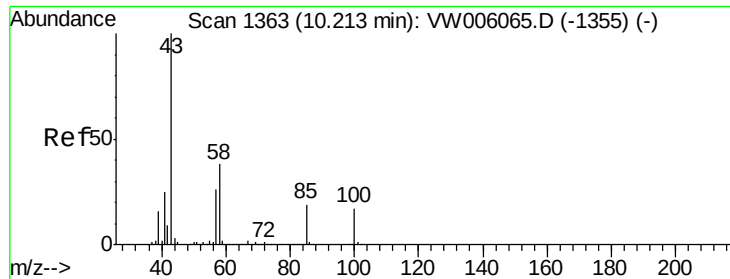
apatel
10/30/2018 2:16:15 PM



#50
Toluene-d8
Concen: 53.093 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.6	77.4





#51

4-Methyl-2-Pentanone

Concen: 281.512 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 289691

Ion Ratio Lower Upper

43 100

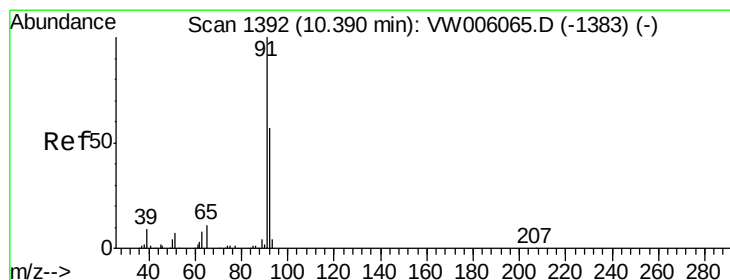
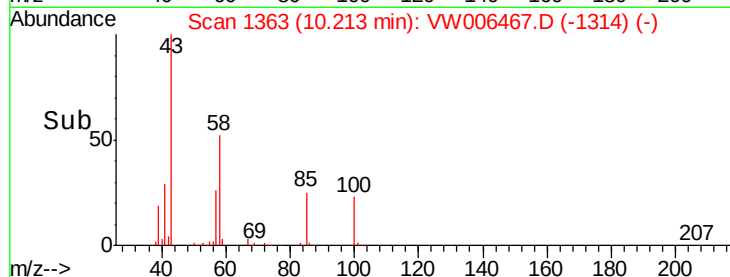
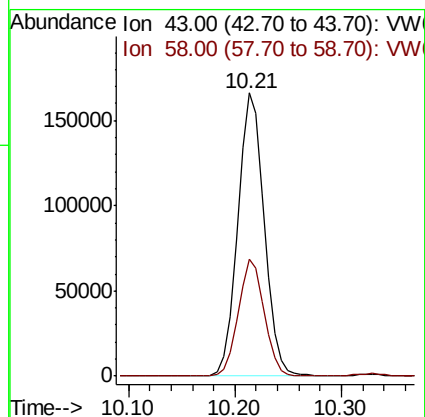
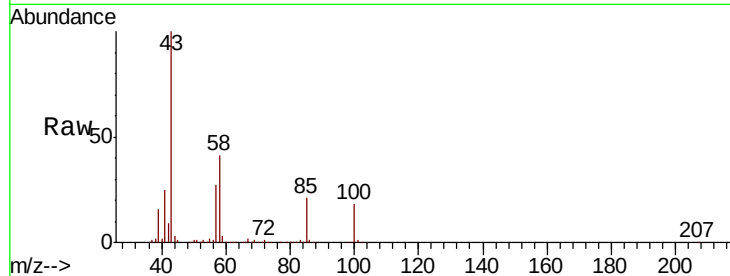
58 40.6 31.5 47.3

Manual Integrations

APPROVED

apatel

10/30/2018 2:16:15 PM



#52

Toluene

Concen: 60.793 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW006467.D

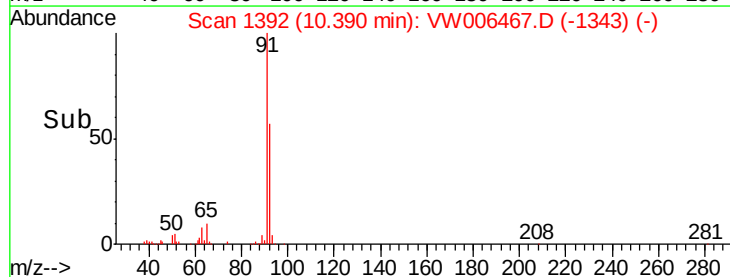
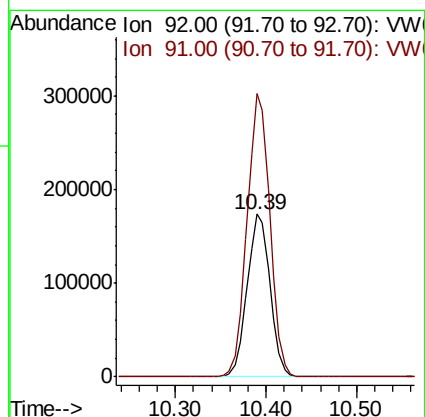
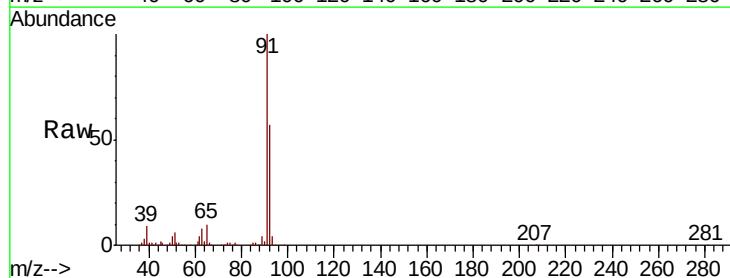
Acq: 29 Oct 2018 21:59

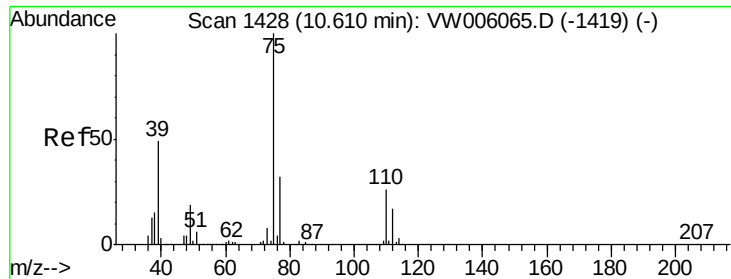
Tgt Ion: 92 Resp: 302265

Ion Ratio Lower Upper

92 100

91 173.7 140.0 210.0





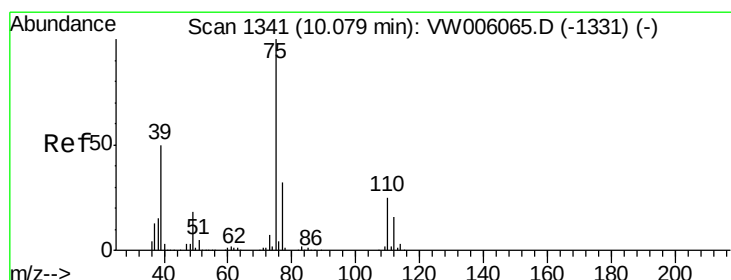
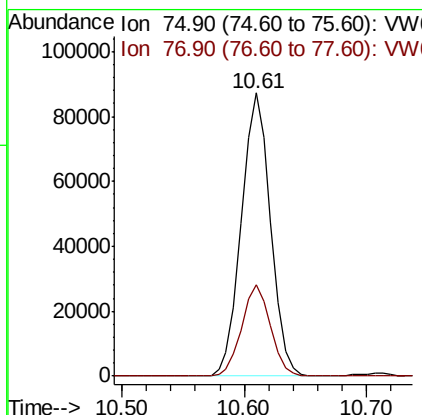
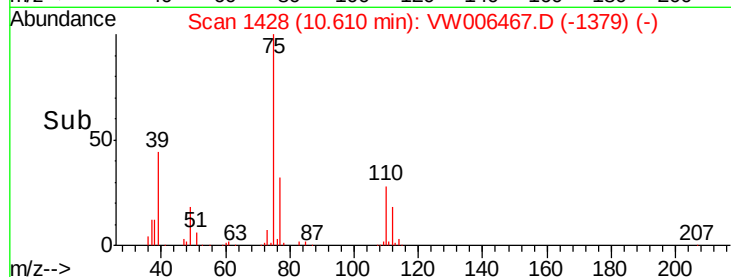
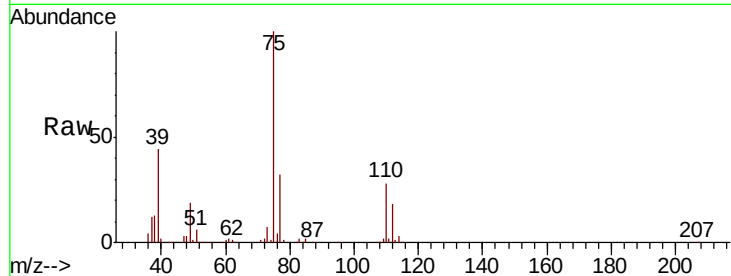
#53
 t-1,3-Dichloropropene
 Concen: 58.994 ug/l
 RT: 10.61 min Scan# 1428
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion: 75 Resp: 144138
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.4 38.2

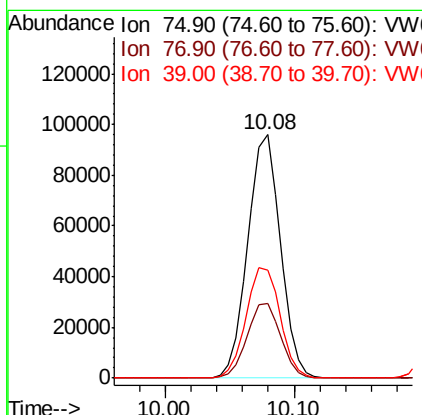
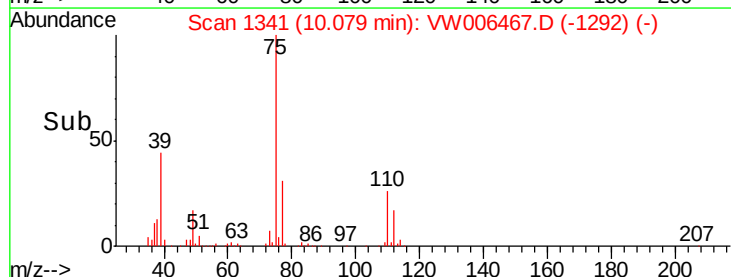
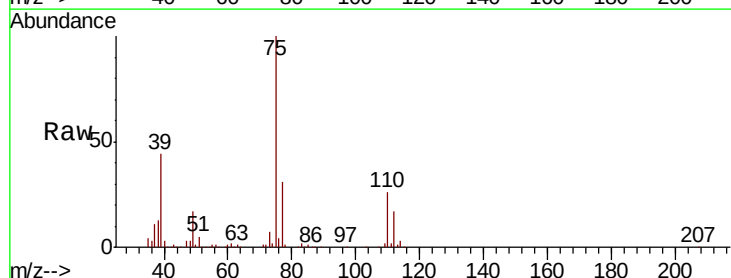
Manual Integrations
 APPROVED

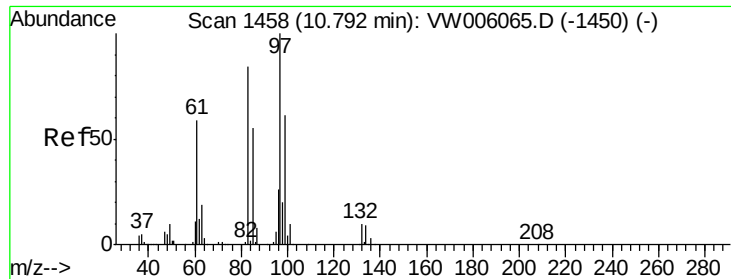
apatel
 10/30/2018 2:16:15 PM



#54
 cis-1,3-Dichloropropene
 Concen: 59.911 ug/l
 RT: 10.08 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Tgt Ion: 75 Resp: 167995
 Ion Ratio Lower Upper
 75 100
 77 30.7 25.2 37.8
 39 44.2 39.9 59.9





#55

1,1,2-Trichloroethane

Concen: 62.517 ug/l

RT: 10.79 min Scan# 1458

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

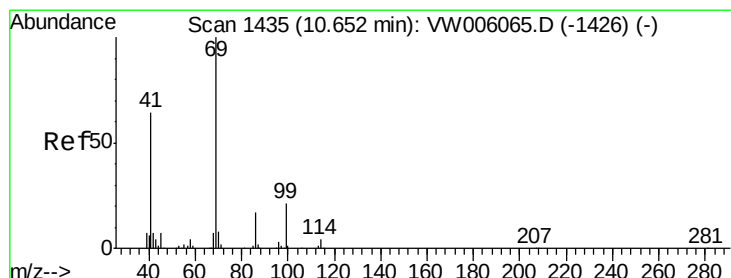
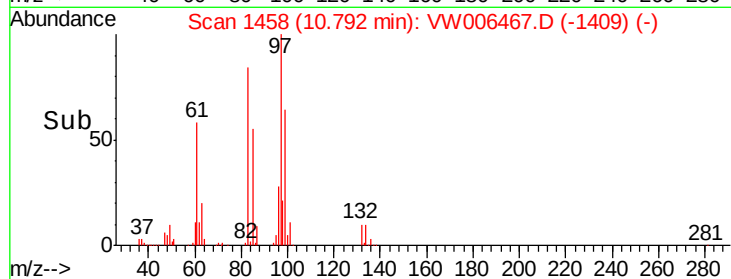
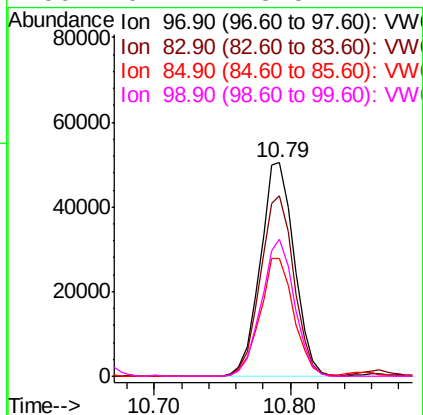
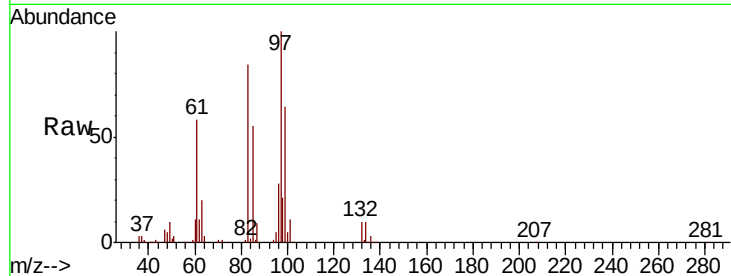
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	88489
Ion	Ratio	Lower	Upper
97	100		
83	84.3	67.2	100.8
85	55.3	43.7	65.5
99	64.4	48.5	72.7

Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM



#56

Ethyl methacrylate

Concen: 57.406 ug/l

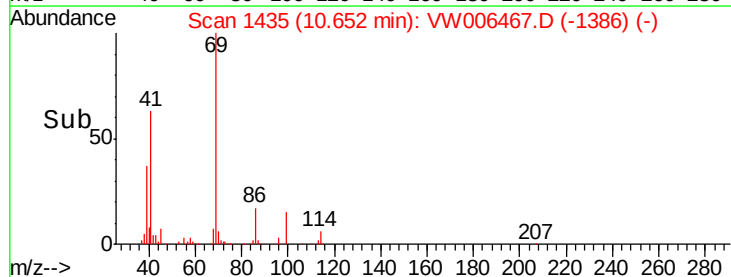
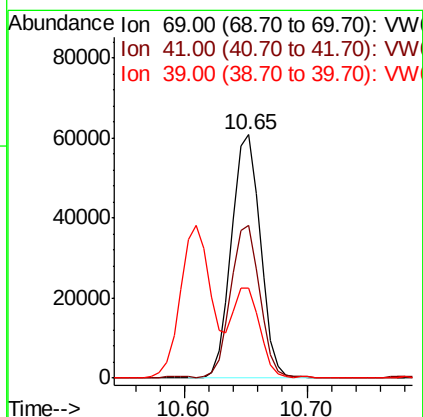
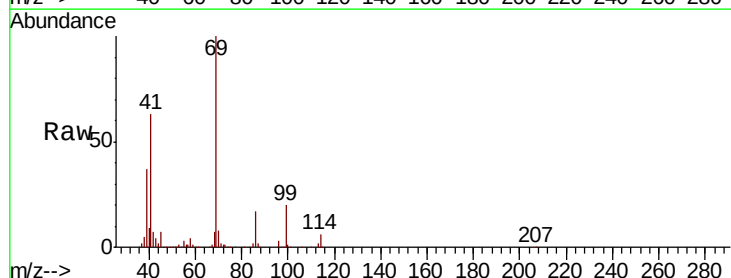
RT: 10.65 min Scan# 1435

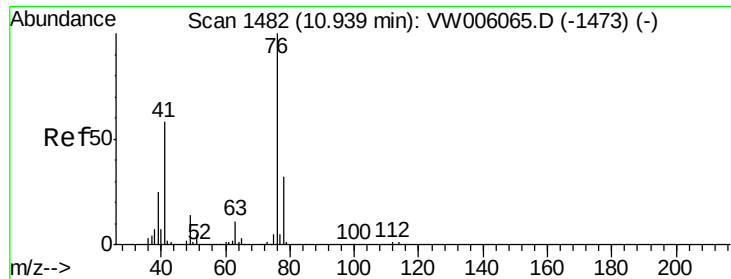
Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Tgt Ion:	69	Resp:	99613
Ion	Ratio	Lower	Upper
69	100		
41	62.8	52.8	79.2
39	33.7	30.6	45.8





#57

1,3-Dichloropropane

Concen: 61.289 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 143608

Ion Ratio Lower Upper

76 100

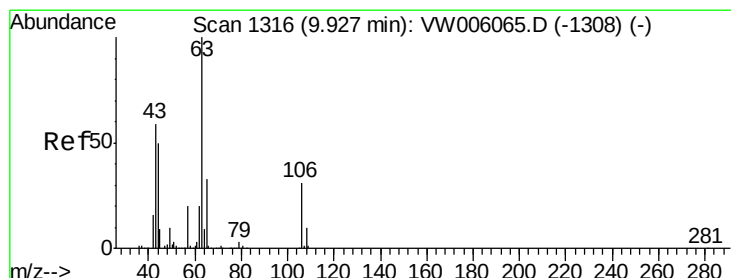
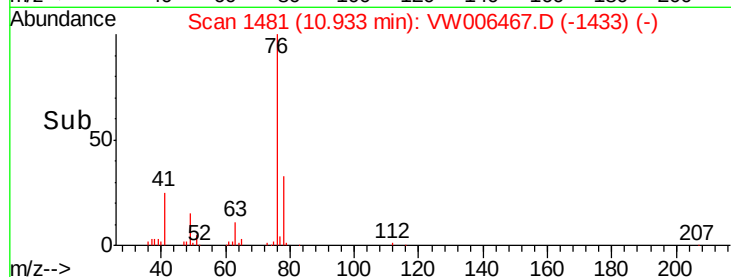
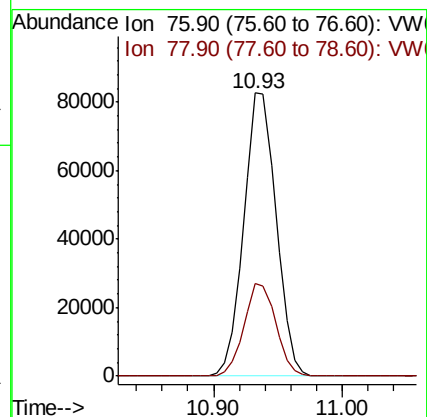
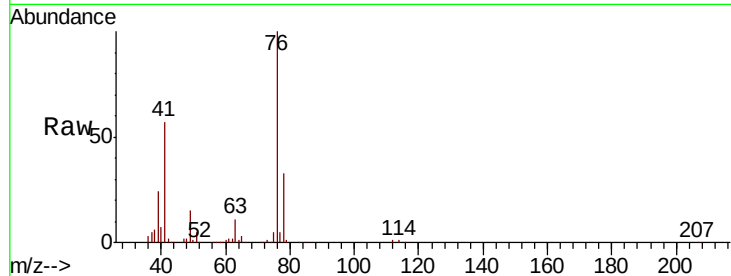
78 32.4 25.9 38.9

Manual Integrations

APPROVED

apatel

10/30/2018 2:16:15 PM



#58

2-Chloroethyl Vinyl ether

Concen: 283.468 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VW006467.D

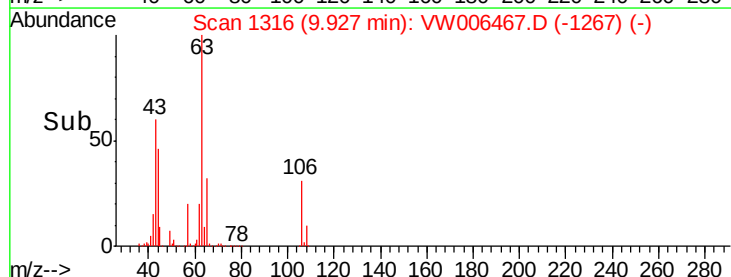
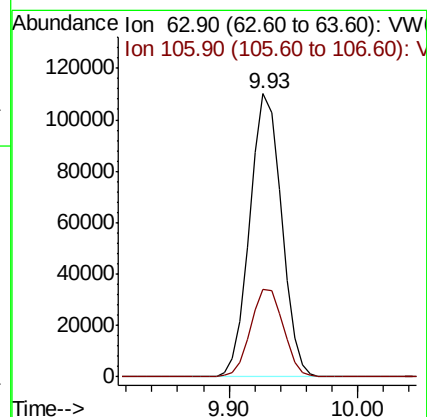
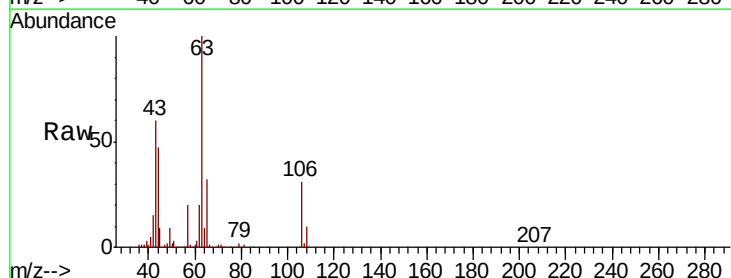
Acq: 29 Oct 2018 21:59

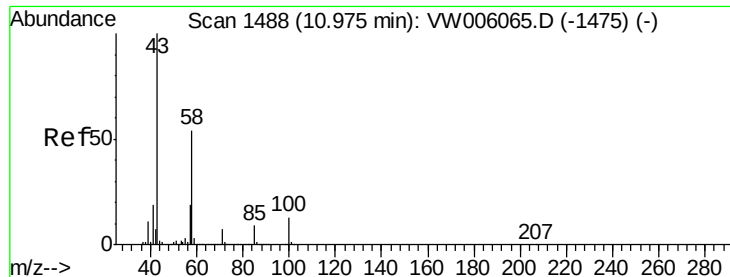
Tgt Ion: 63 Resp: 187952

Ion Ratio Lower Upper

63 100

106 31.8 24.5 36.7





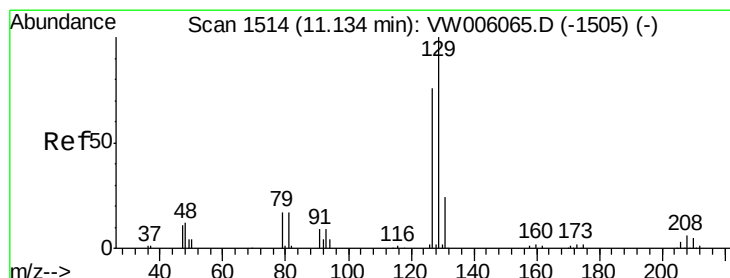
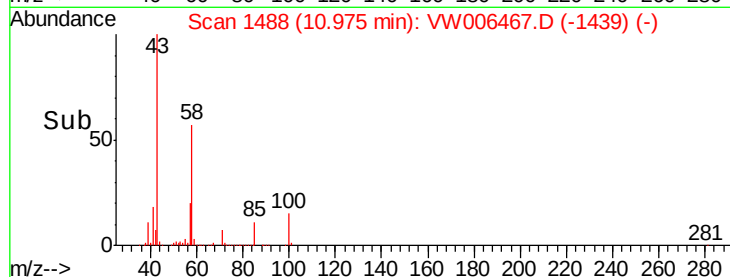
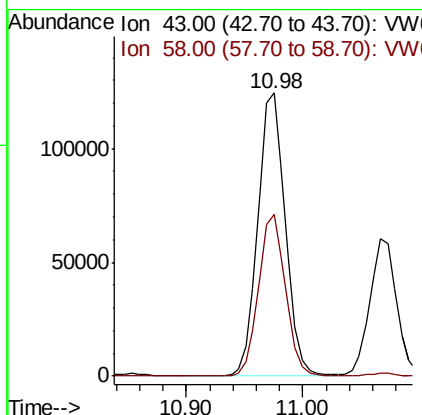
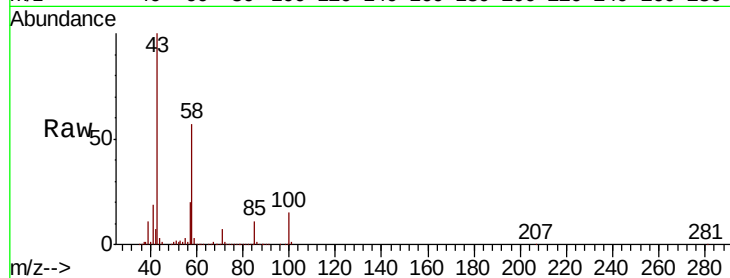
#59
2-Hexanone
Concen: 280.178 ug/l
RT: 10.98 min Scan# 1488
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	43	Resp	205812
Ion Ratio	43	100	Lower Upper
	58	55.9	26.9 80.6

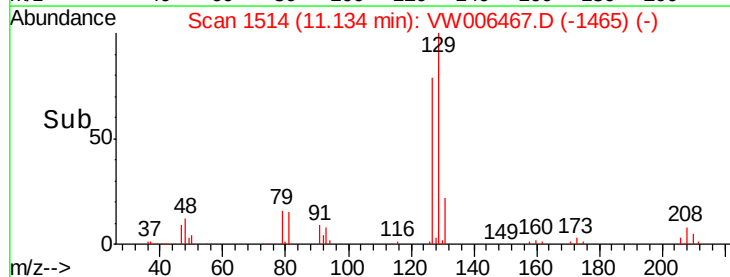
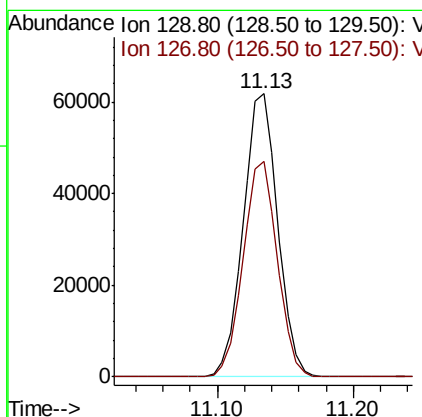
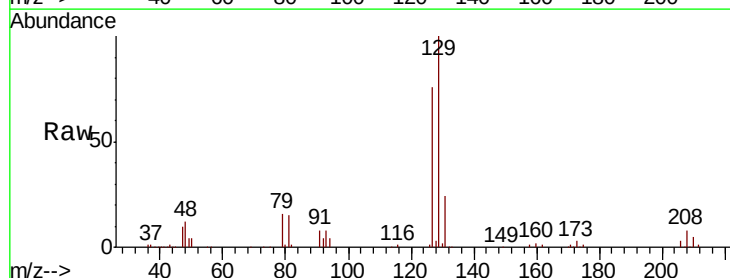
Manual Integrations
APPROVED

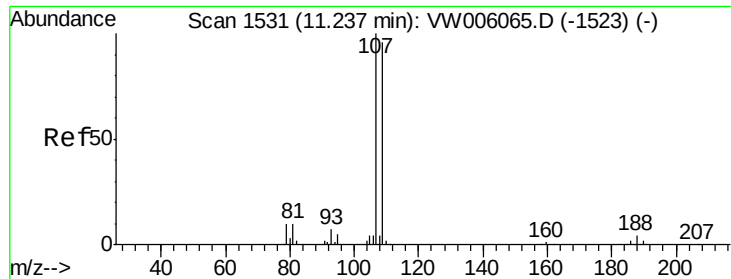
apatel
10/30/2018 2:16:15 PM



#60
Dibromochloromethane
Concen: 62.023 ug/l
RT: 11.13 min Scan# 1514
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	129	Resp	109351
Ion Ratio	129	100	Lower Upper
	127	75.9	38.6 115.7





#61

1,2-Dibromoethane

Concen: 61.575 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 87085

Ion Ratio Lower Upper

107 100

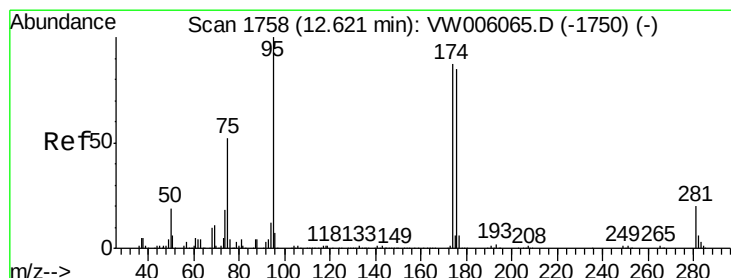
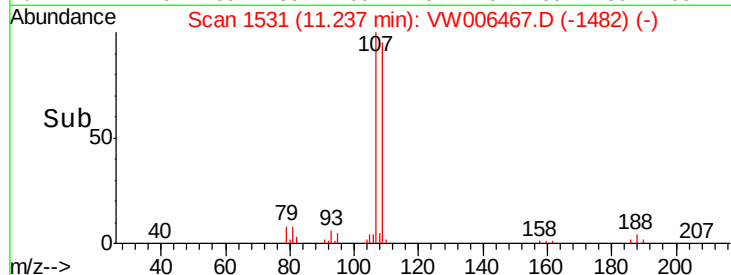
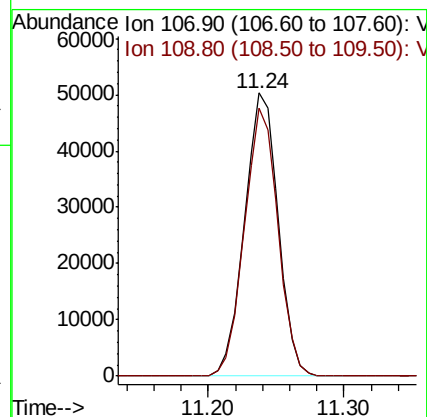
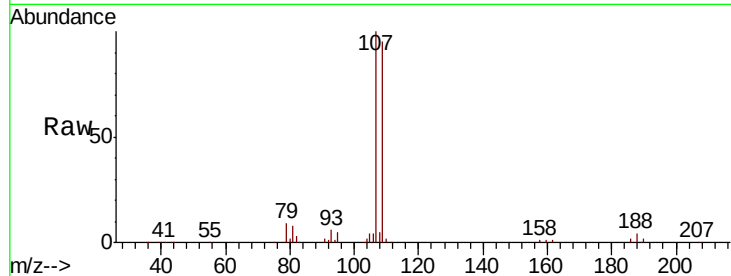
109 94.2 76.3 114.5

Manual Integrations

APPROVED

apatel

10/30/2018 2:16:15 PM



#62

4-Bromofluorobenzene

Concen: 54.742 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

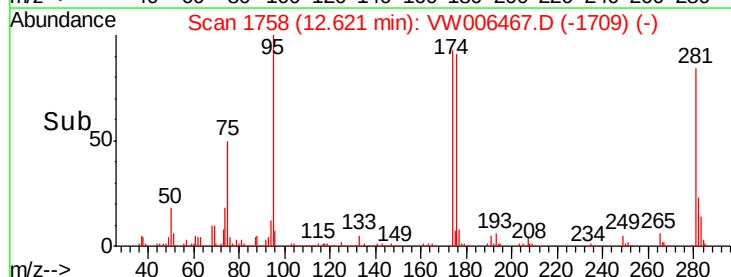
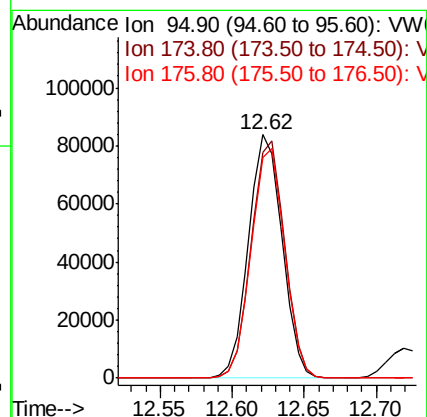
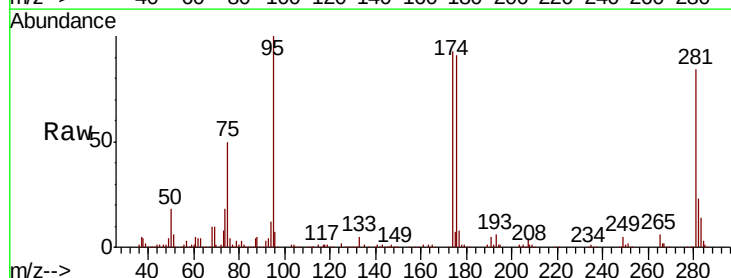
Tgt Ion: 95 Resp: 135577

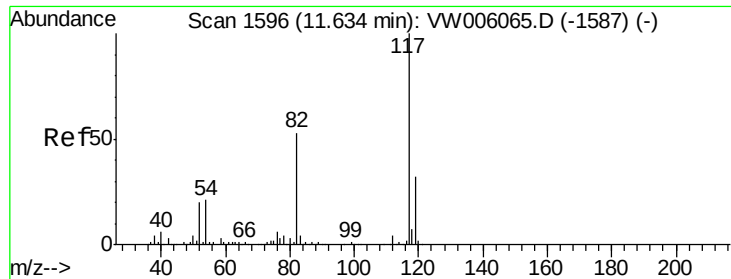
Ion Ratio Lower Upper

95 100

174 96.8 0.0 186.0

176 93.9 0.0 181.6





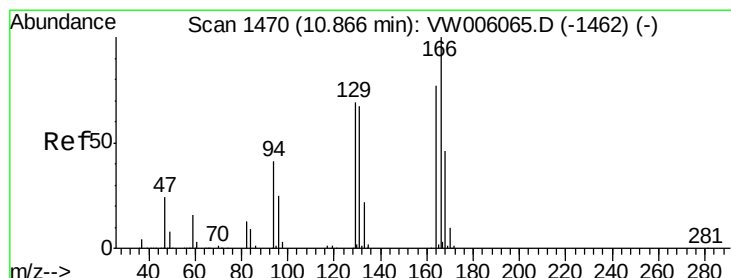
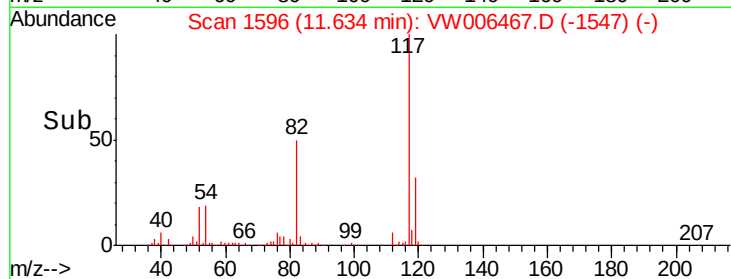
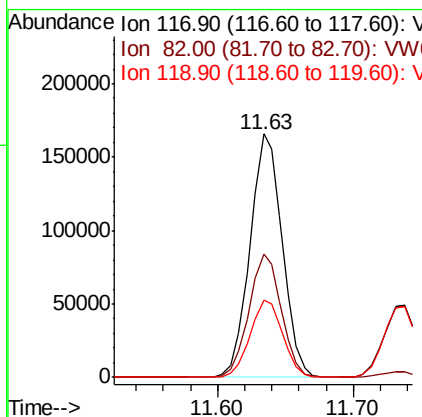
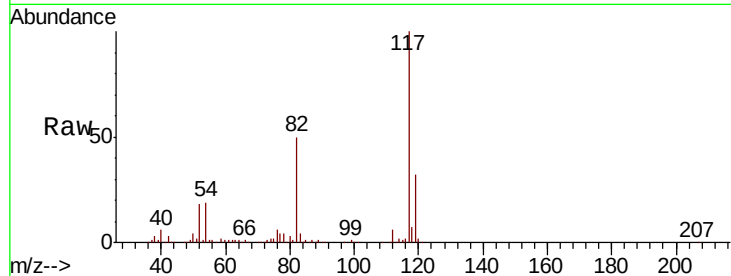
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	275932		
82	50.4		42.1	63.1
119	31.8		25.8	38.6

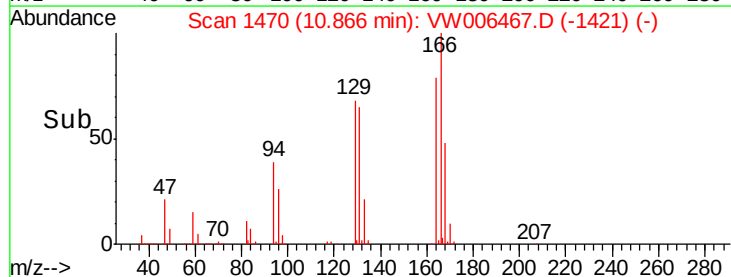
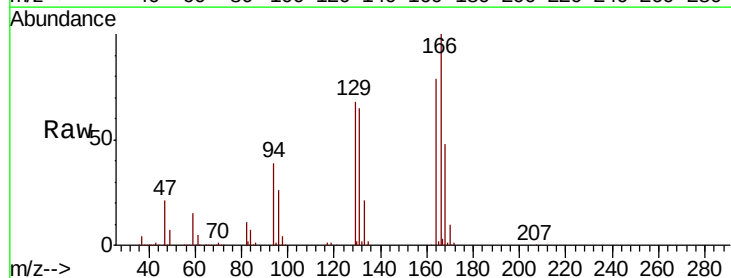
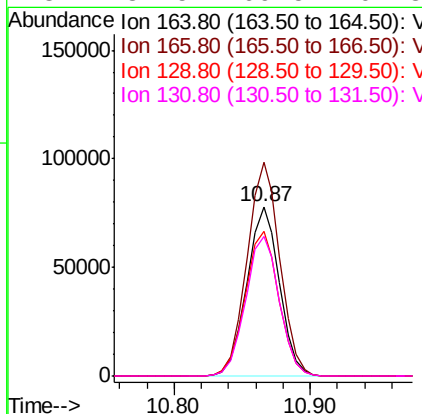
Manual Integrations
APPROVED

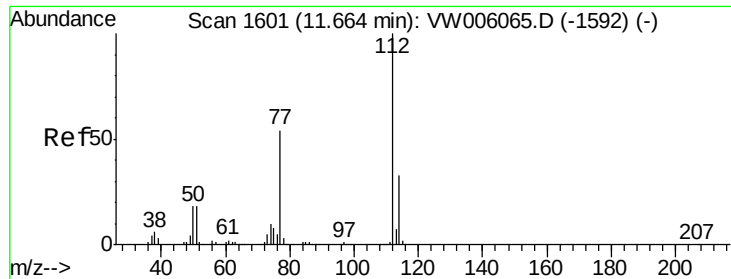
apatel
10/30/2018 2:16:15 PM



#64
Tetrachloroethene
Concen: 60.992 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	130650		
166	126.4		103.4	155.0
129	85.3		71.8	107.8
131	82.5		69.5	104.3





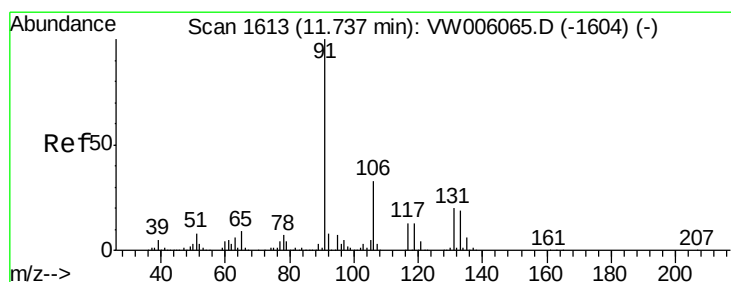
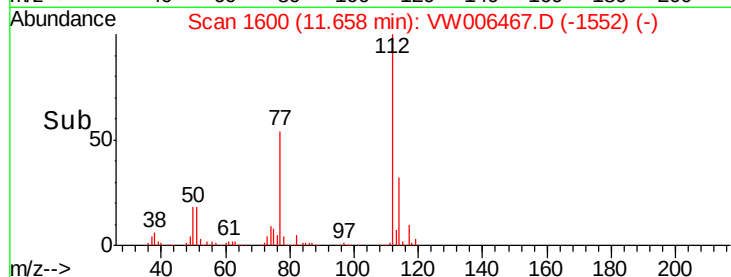
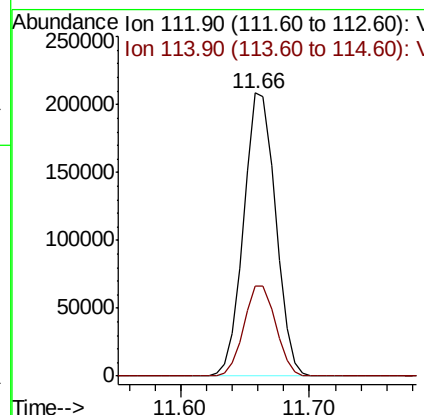
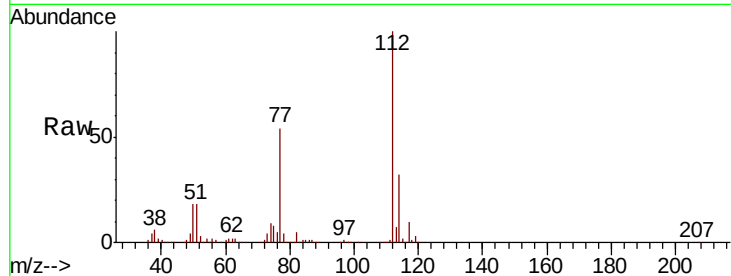
#65
Chlorobenzene
Concen: 60.427 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
112	100	356935		
114	32.0	26.2	39.2	

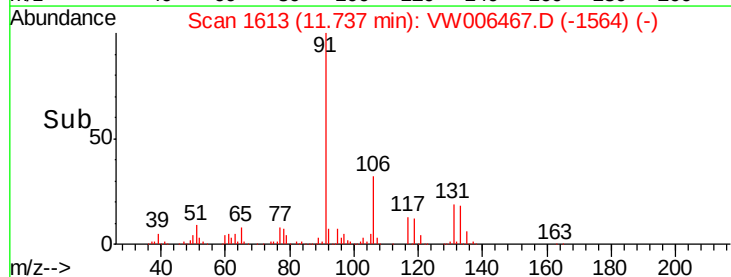
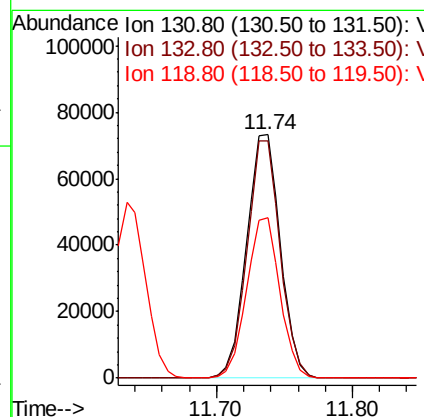
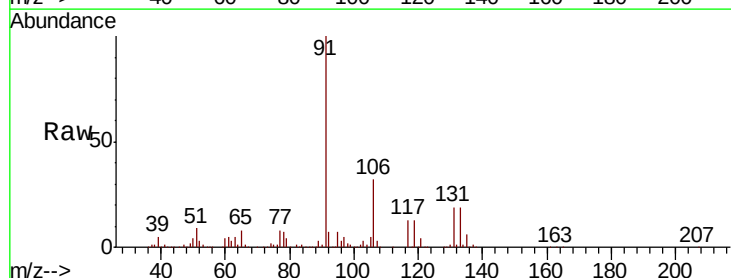
Manual Integrations
APPROVED

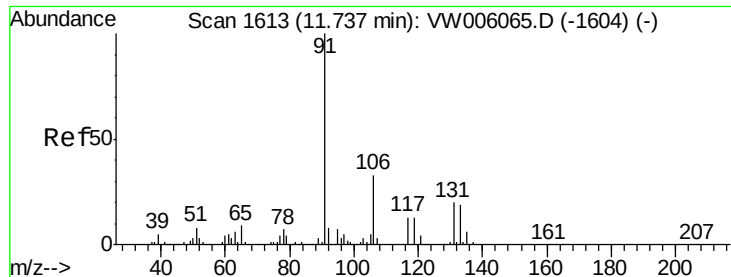
apatel
10/30/2018 2:16:15 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 60.491 ug/l
RT: 11.74 min Scan# 1613
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	126983		
133	95.8	48.1	144.3	
119	64.8	31.6	94.7	





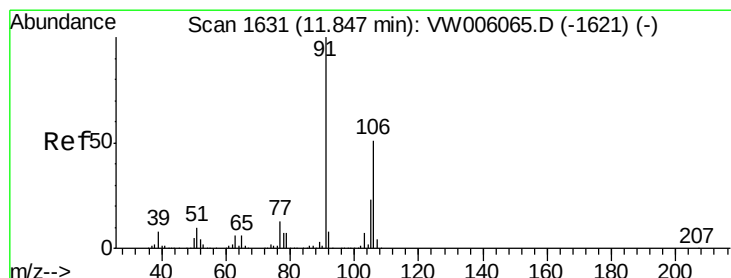
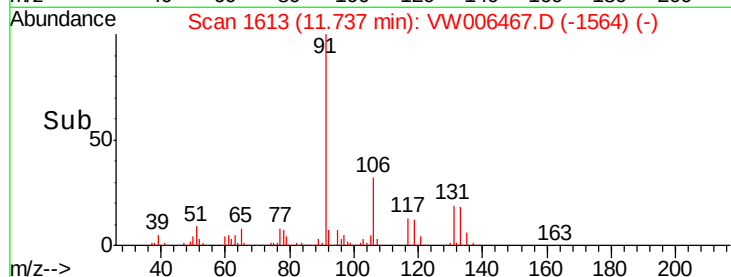
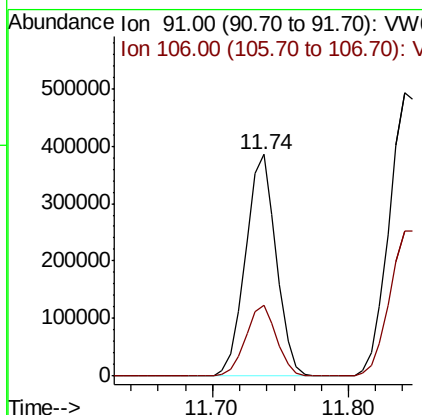
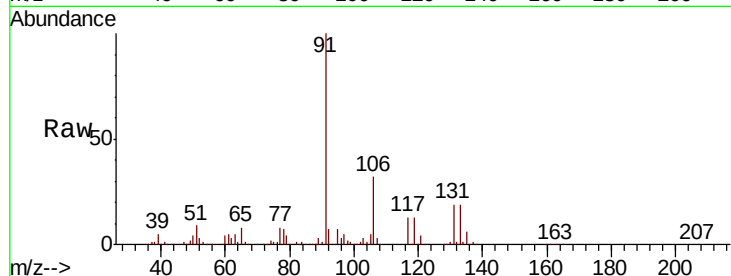
#67
Ethyl Benzene
Concen: 59.305 ug/l
RT: 11.74 min Scan# 1613
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 607096
Ion Ratio Lower Upper
91 100
106 31.8 26.1 39.1

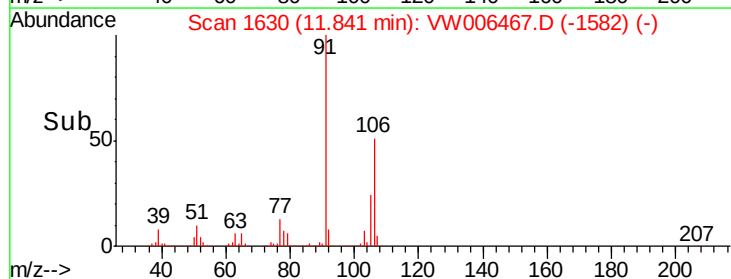
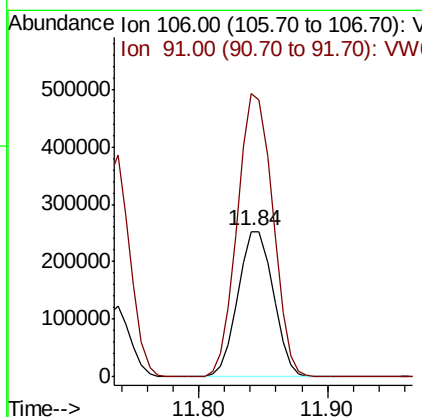
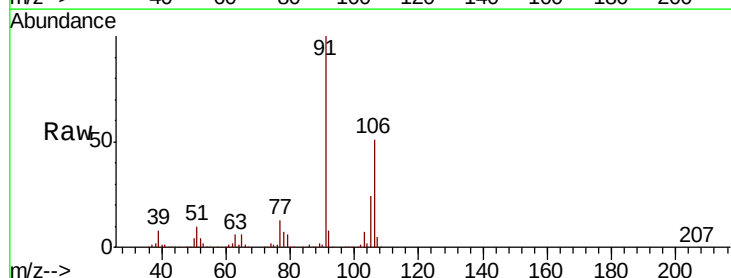
Manual Integrations
APPROVED

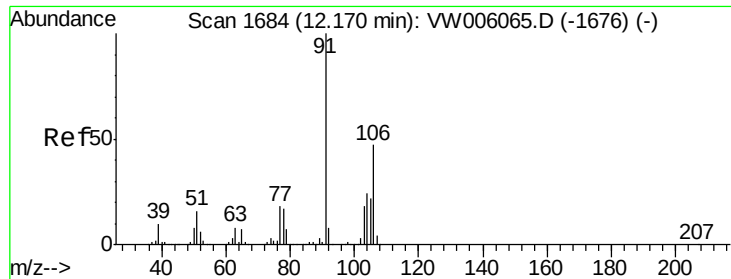
apatel
10/30/2018 2:16:15 PM



#68
m/p-Xylenes
Concen: 119.710 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.01 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion: 106 Resp: 484364
Ion Ratio Lower Upper
106 100
91 194.6 159.1 238.7





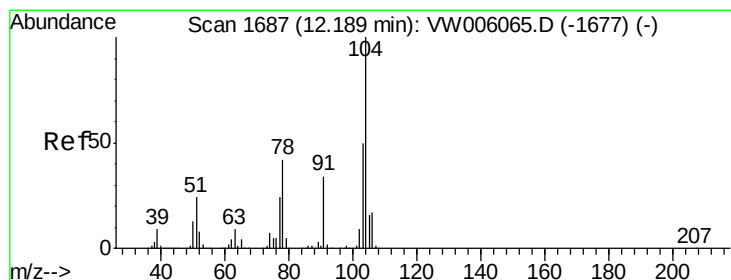
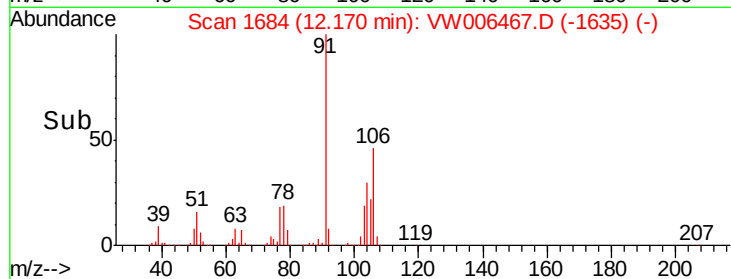
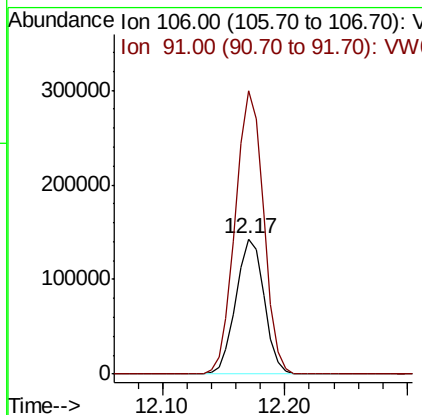
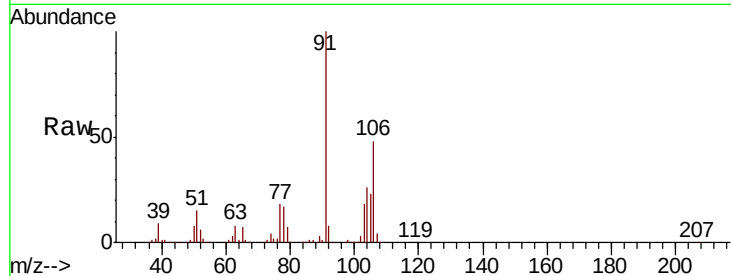
#69
o-Xylene
Concen: 59.212 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	209.3	105.4	316.1

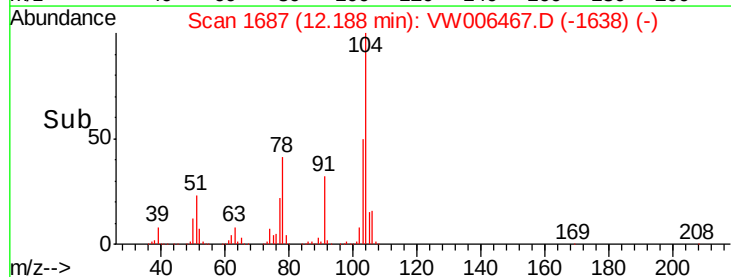
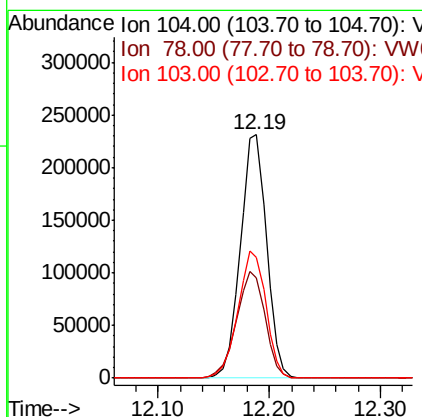
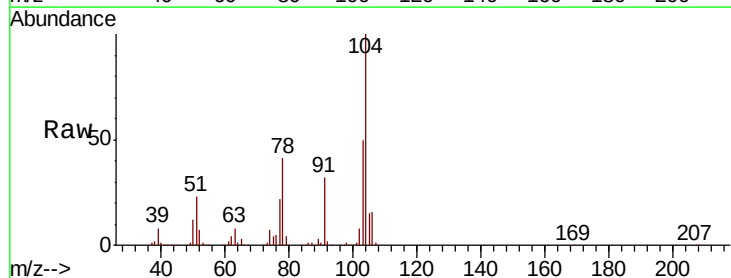
Manual Integrations
APPROVED

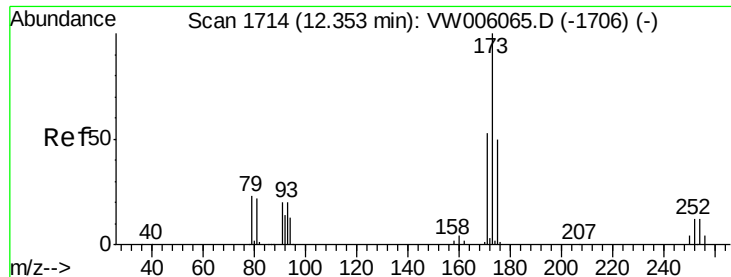
apatel
10/30/2018 2:16:15 PM



#70
Styrene
Concen: 60.260 ug/l
RT: 12.19 min Scan# 1687
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.6	39.1	58.7
103	55.6	44.3	66.5





#71

Bromoform

Concen: 58.632 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

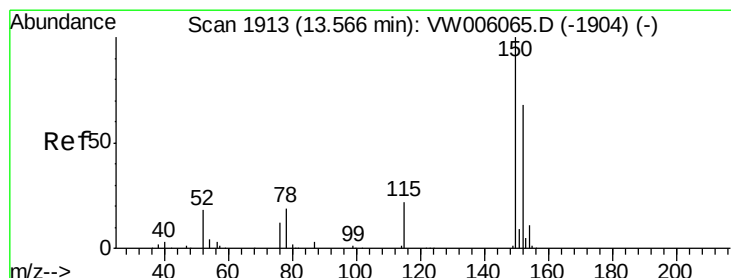
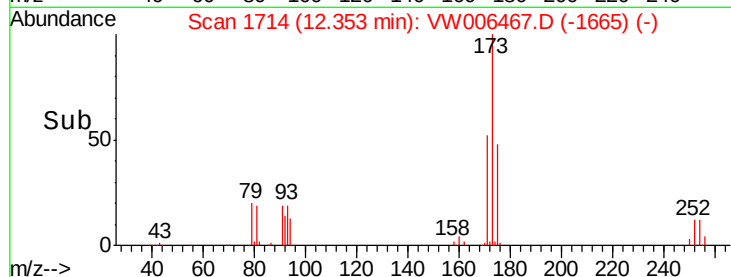
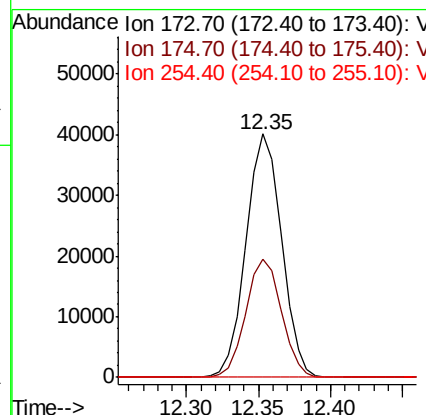
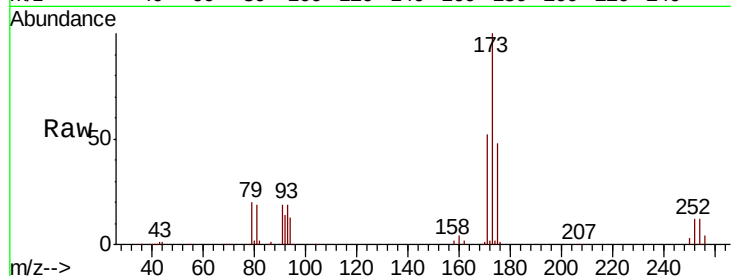
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.2	72.6
254	0.2	0.1	0.1#

Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

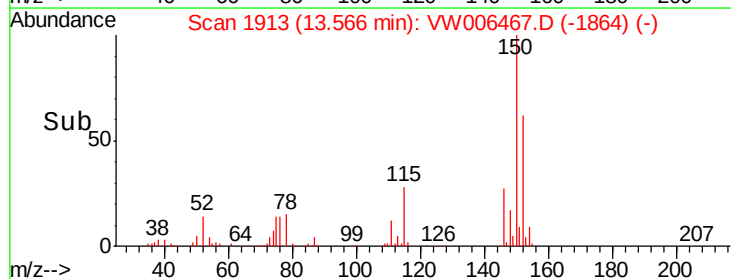
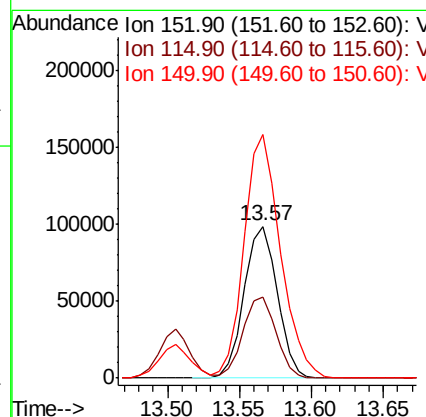
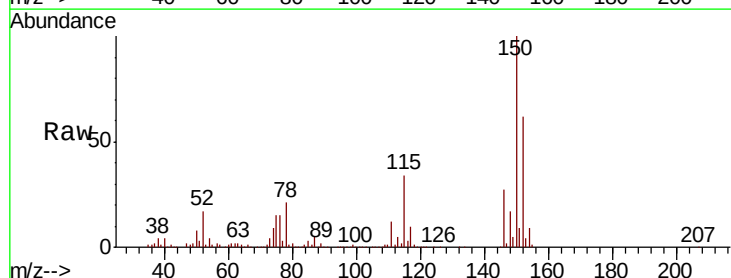
RT: 13.57 min Scan# 1913

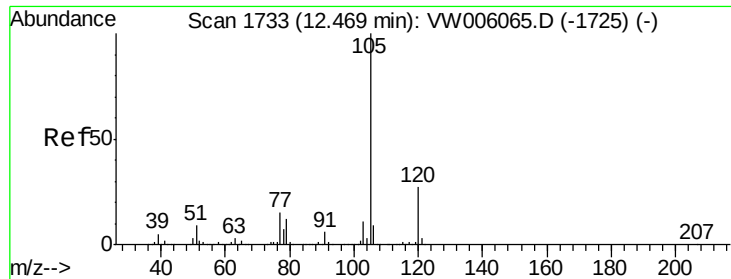
Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.1	27.8	83.3
150	176.5	0.0	349.2





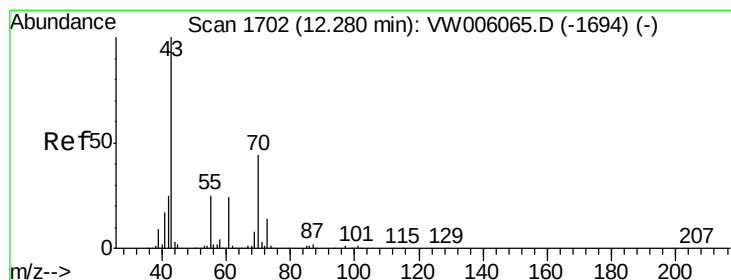
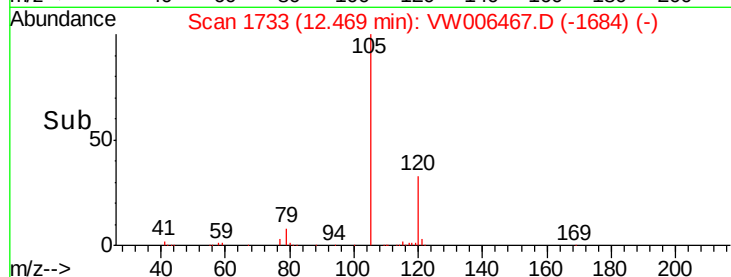
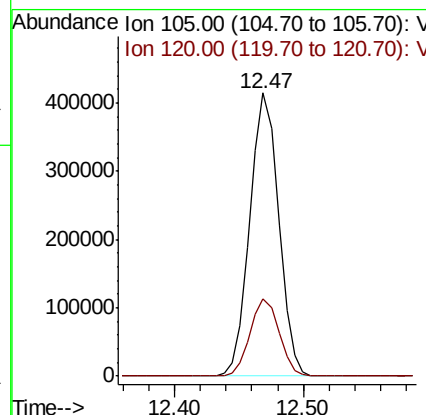
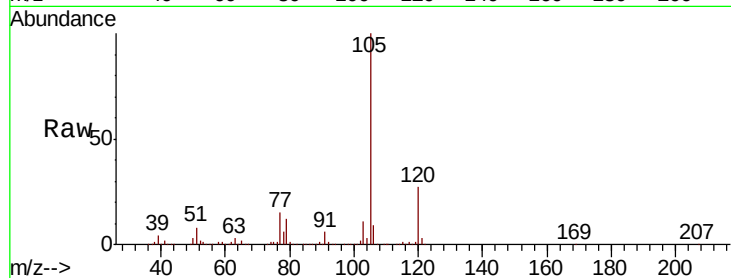
#73
Isopropylbenzene
Concen: 57.505 ug/l
RT: 12.47 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion:105 Resp: 640438
Ion Ratio Lower Upper
105 100
120 27.4 13.6 40.7

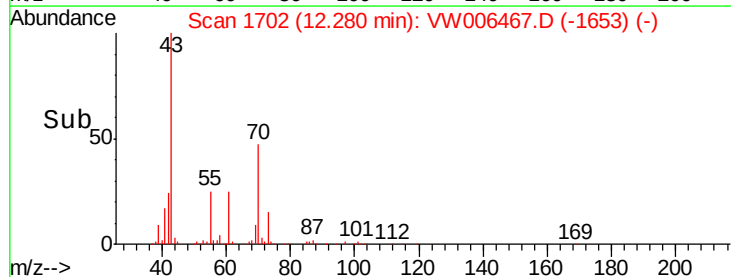
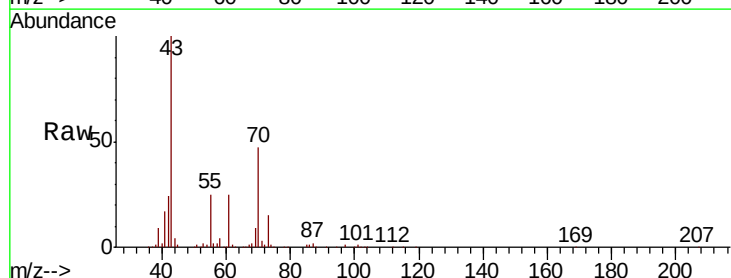
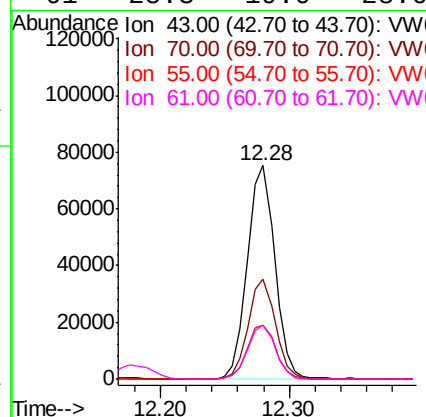
Manual Integrations
APPROVED

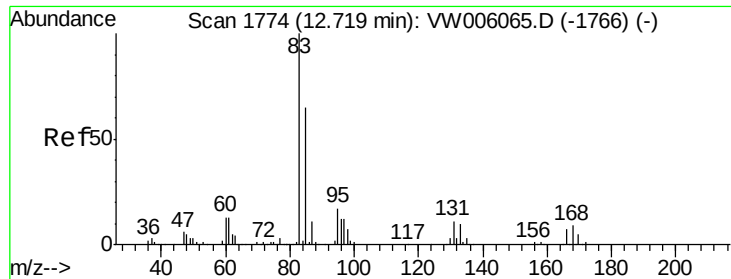
apatel
10/30/2018 2:16:15 PM



#74
N-ethyl acetate
Concen: 51.307 ug/l
RT: 12.28 min Scan# 1702
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion: 43 Resp: 110983
Ion Ratio Lower Upper
43 100
70 46.3 34.2 51.4
55 26.5 19.2 28.8
61 25.3 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 60.166 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

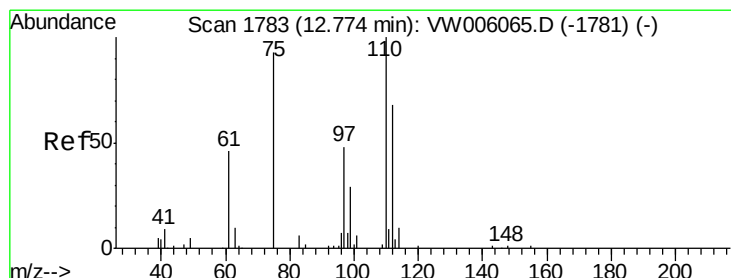
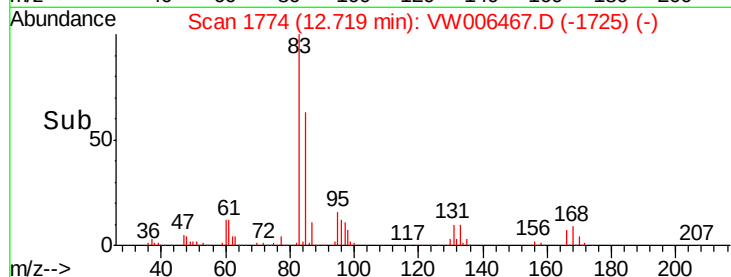
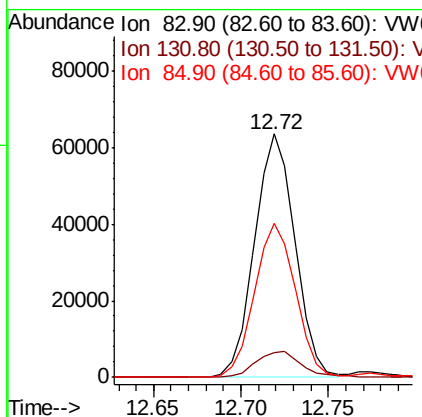
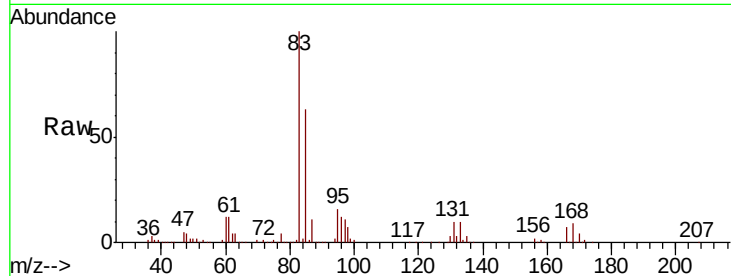
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	101915
Ion Ratio	Lower	Upper	
83	100		
131	12.0	5.9	17.7
85	64.2	31.9	95.9

Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM



#76

1,2,3-Trichloropropane

Concen: 63.942 ug/l m

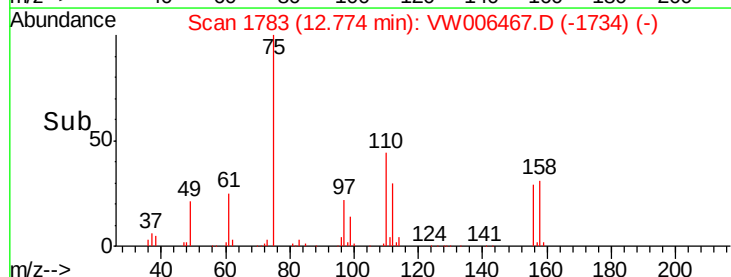
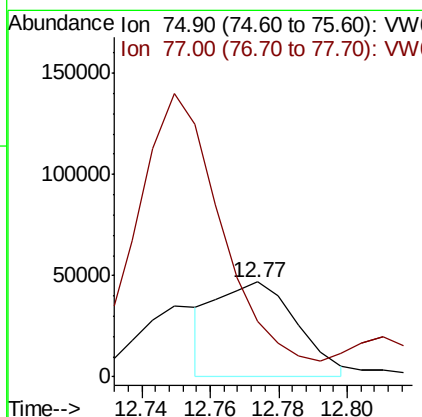
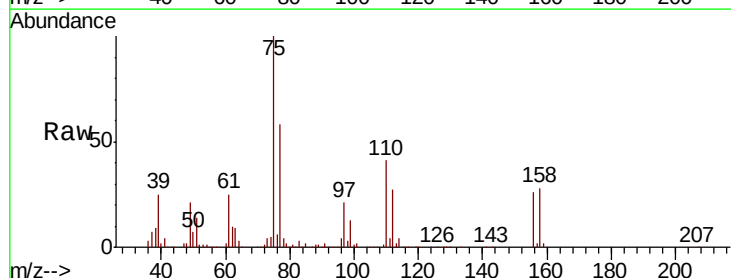
RT: 12.77 min Scan# 1783

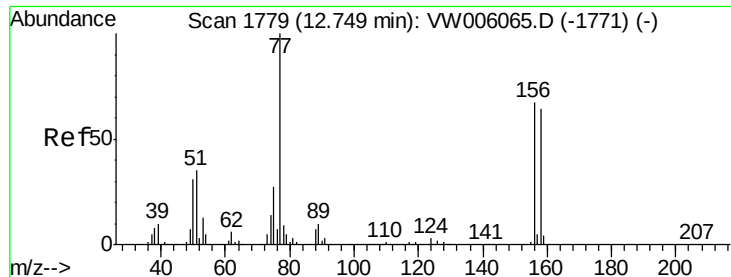
Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Tgt Ion:	75	Resp:	76992
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 59.385 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

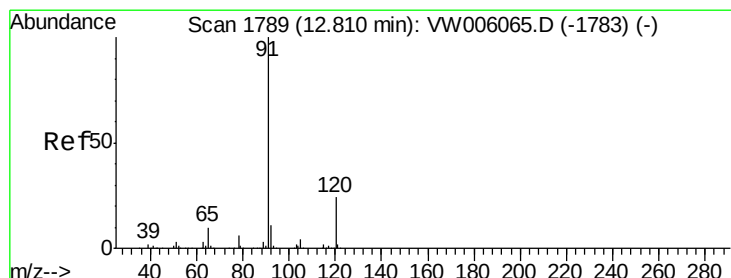
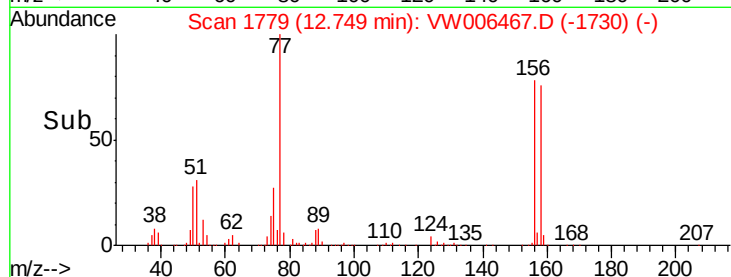
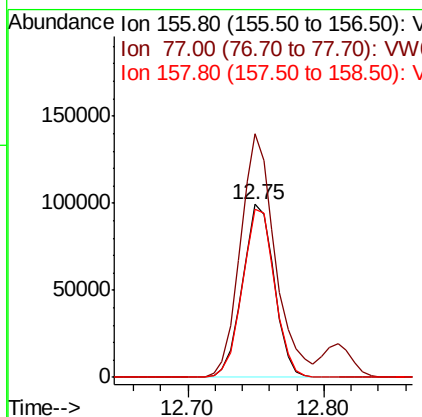
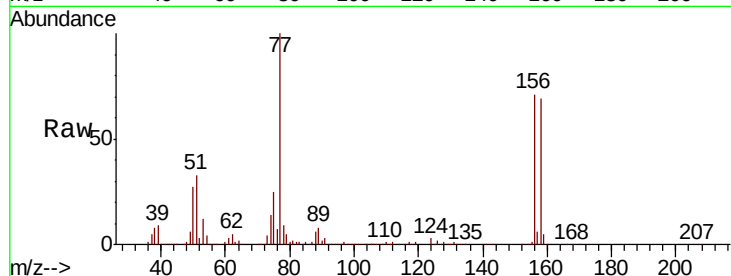
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	154.0	79.1	237.4
158	98.8	48.5	145.6

Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM



#78

n-propylbenzene

Concen: 57.986 ug/l

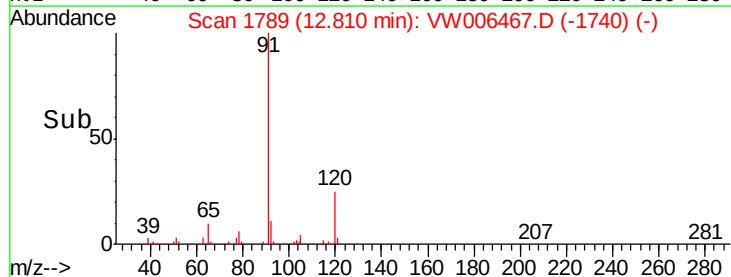
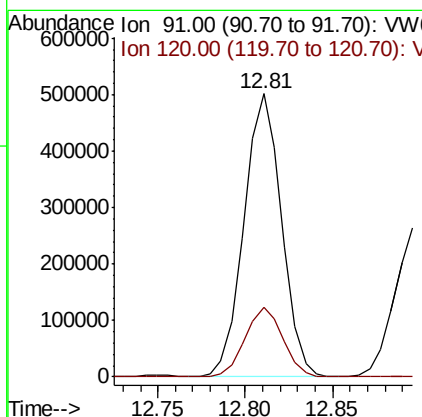
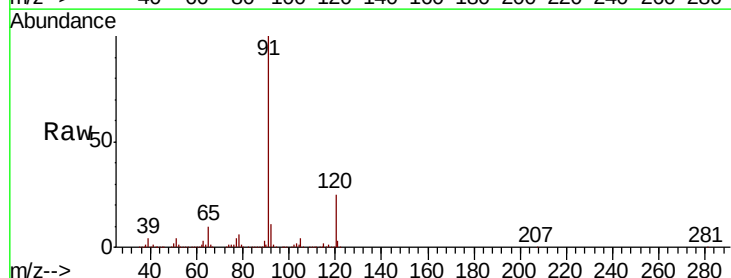
RT: 12.81 min Scan# 1789

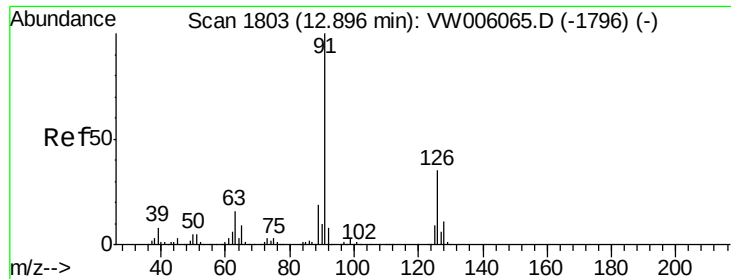
Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.7	12.2	36.6





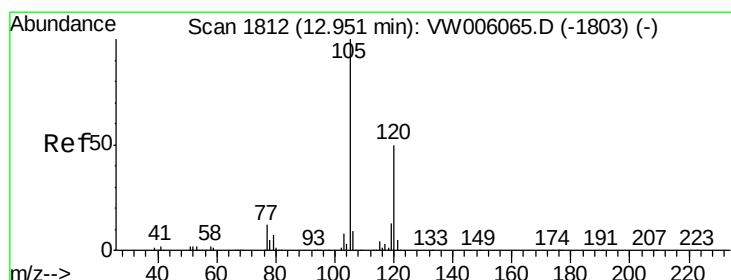
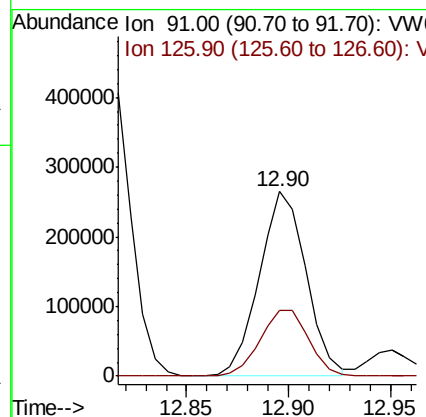
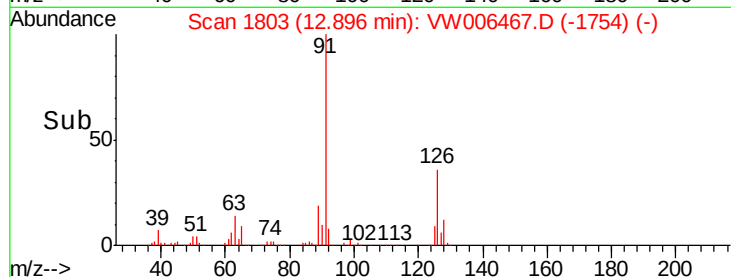
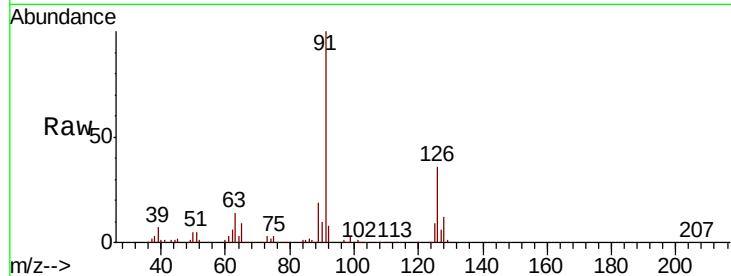
#79
 2-Chlorotoluene
 Concen: 58.084 ug/l
 RT: 12.90 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion: 91 Resp: 422853
 Ion Ratio Lower Upper
 91 100
 126 37.2 17.9 53.8

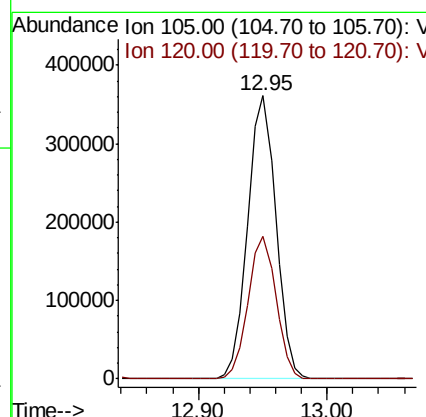
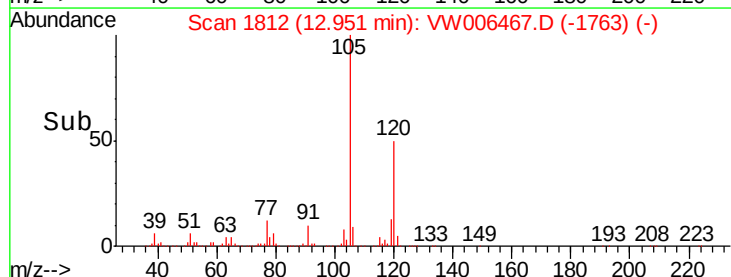
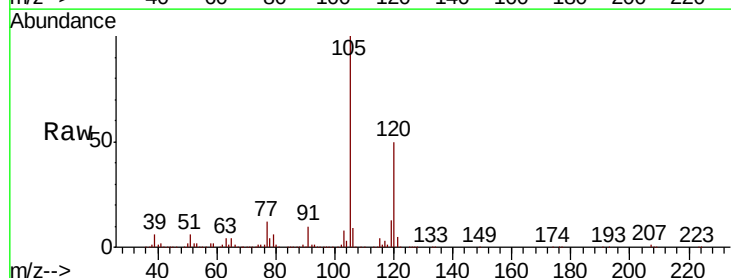
Manual Integrations
 APPROVED

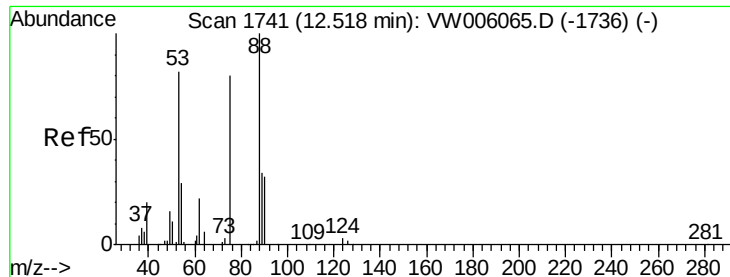
apatel
 10/30/2018 2:16:15 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 58.135 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Tgt Ion: 105 Resp: 545819
 Ion Ratio Lower Upper
 105 100
 120 50.0 24.9 74.6





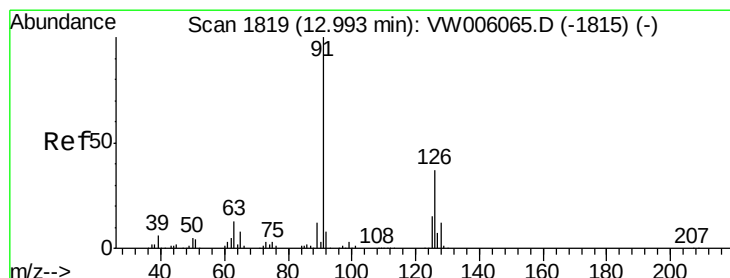
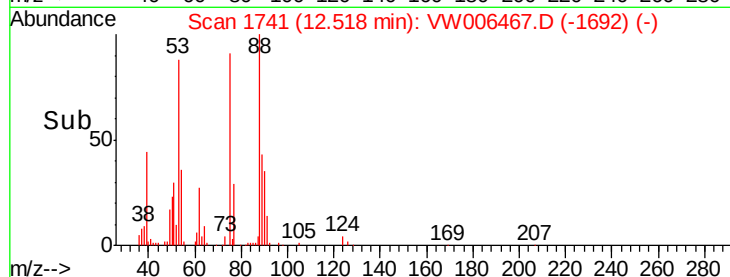
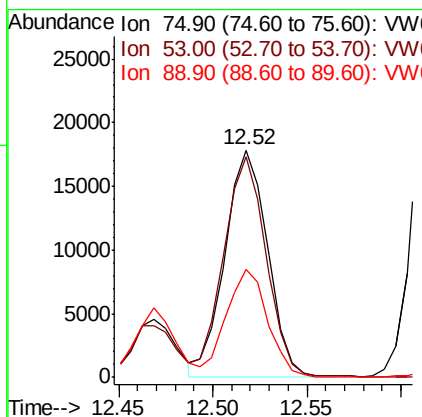
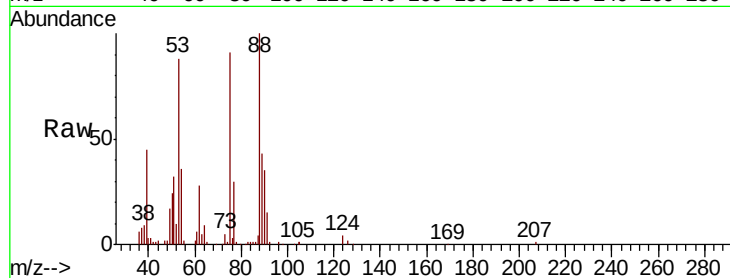
#81
trans-1,4-Dichloro-2-butene
Concen: 55.926 ug/l
RT: 12.52 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	97.0	79.8	119.6
89	45.6	37.5	56.3

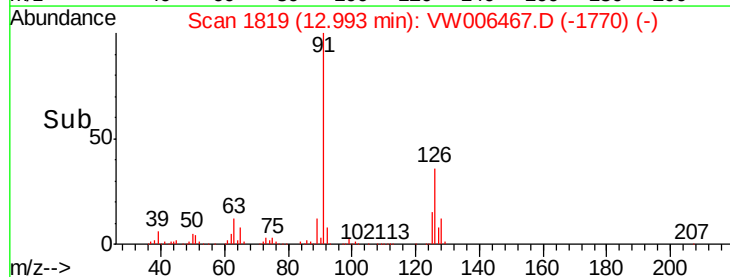
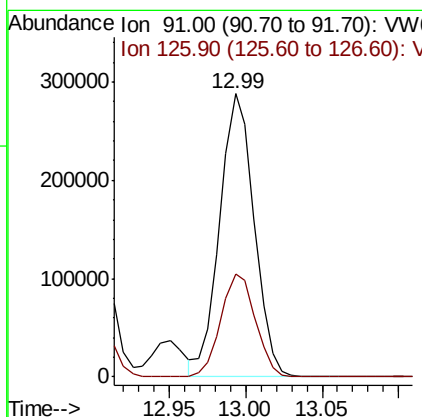
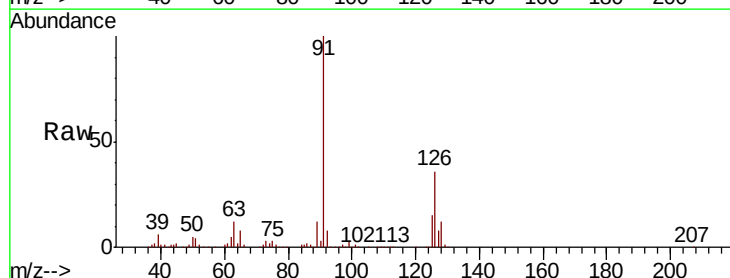
Manual Integrations
APPROVED

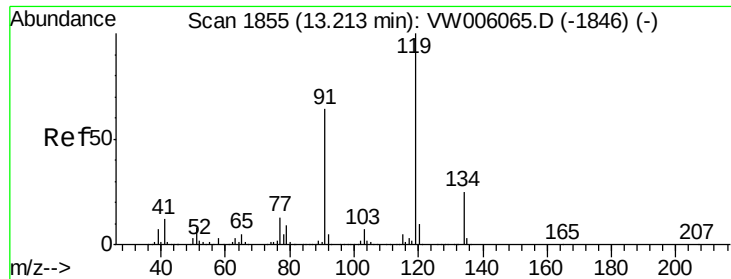
apatel
10/30/2018 2:16:15 PM



#82
4-Chlorotoluene
Concen: 58.908 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.7	18.1	54.3





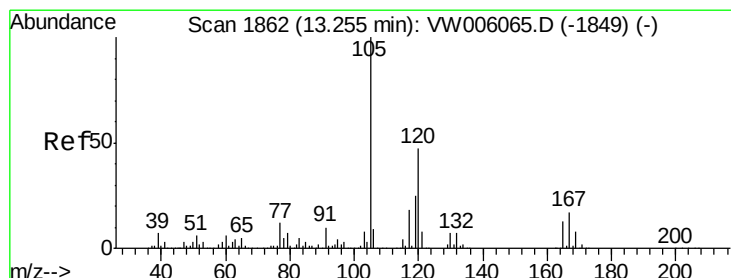
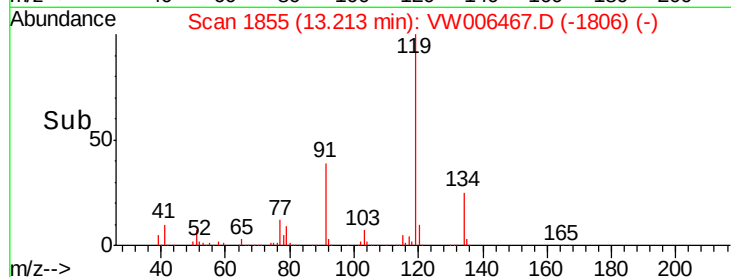
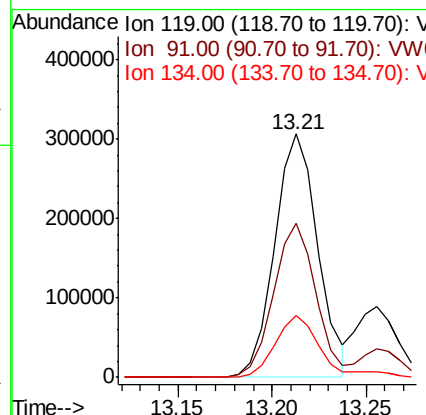
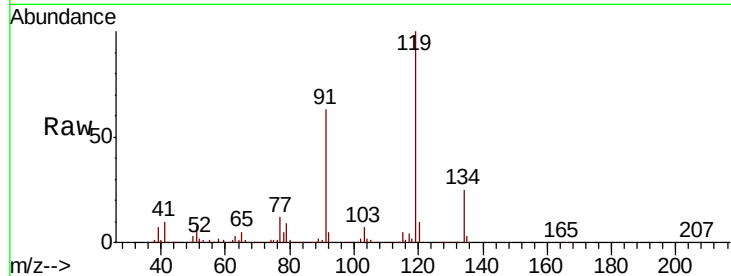
#83
 tert-Butylbenzene
 Concen: 57.817 ug/l
 RT: 13.21 min Scan# 1855
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.7	32.3	96.9
134	27.1	13.6	40.8

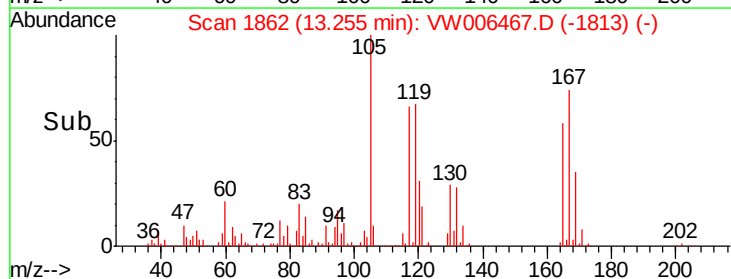
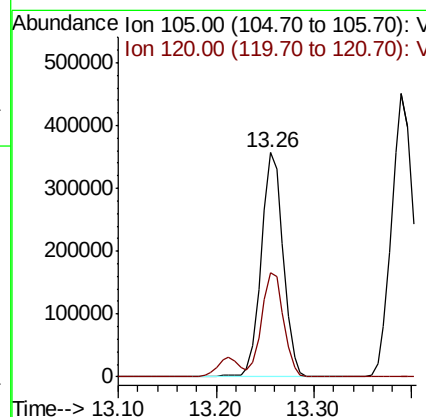
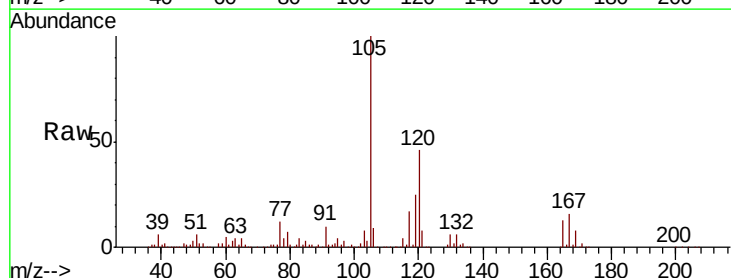
Manual Integrations
 APPROVED

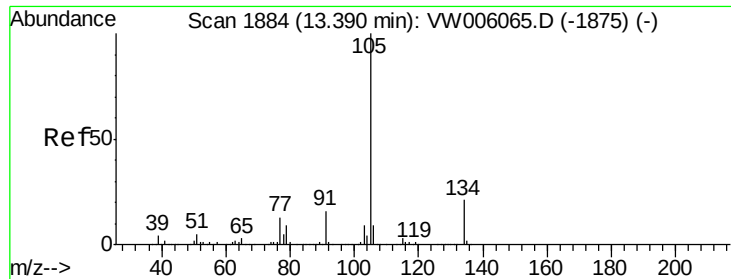
apatel
 10/30/2018 2:16:15 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 58.393 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.1	69.3





#85

sec-Butylbenzene

Concen: 58.275 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 691559

Ion Ratio Lower Upper

105 100

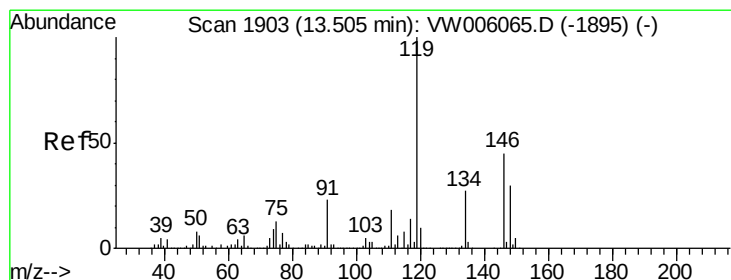
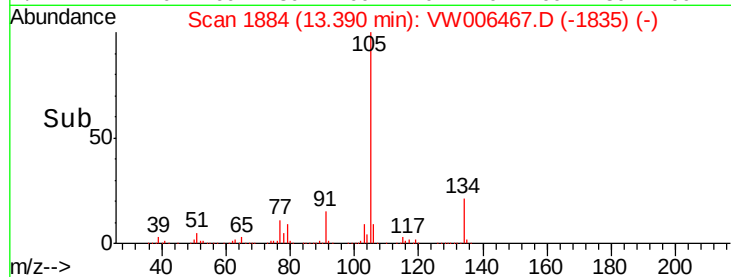
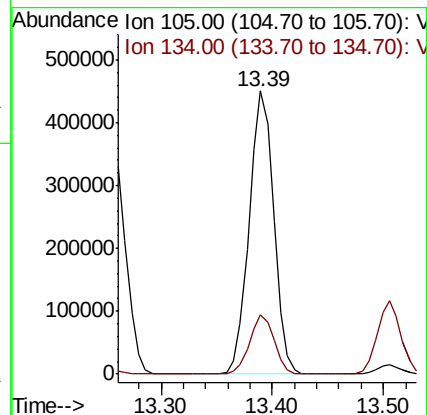
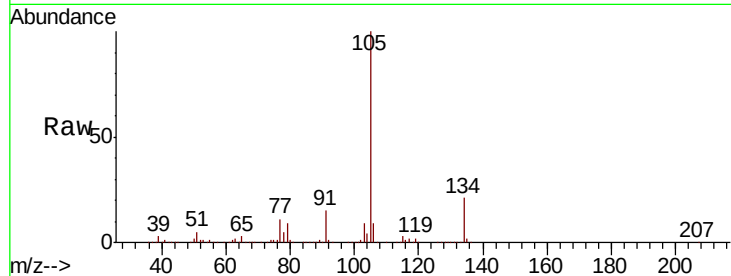
134 20.9 10.5 31.6

Manual Integrations

APPROVED

apatel

10/30/2018 2:16:15 PM



#86

p-Isopropyltoluene

Concen: 57.847 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

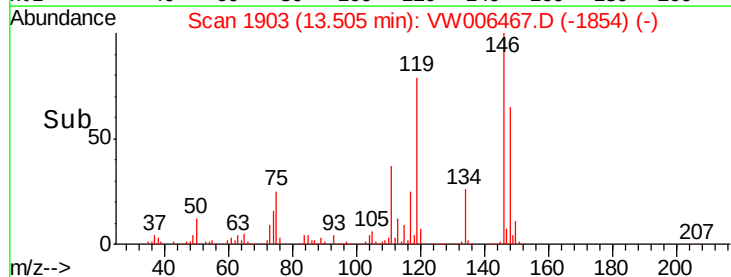
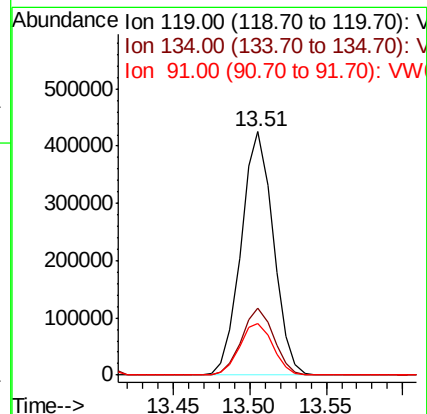
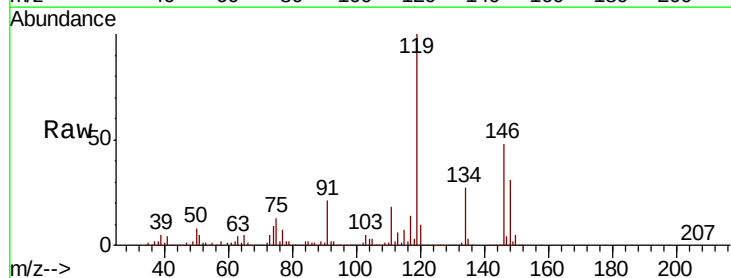
Tgt Ion:119 Resp: 620918

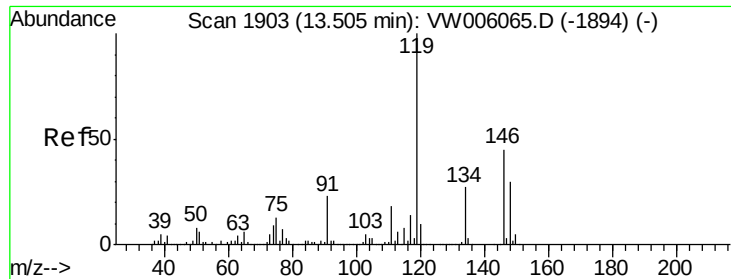
Ion Ratio Lower Upper

119 100

134 27.5 13.4 40.2

91 22.0 11.4 34.1





#87

1,3-Dichlorobenzene

Concen: 59.610 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

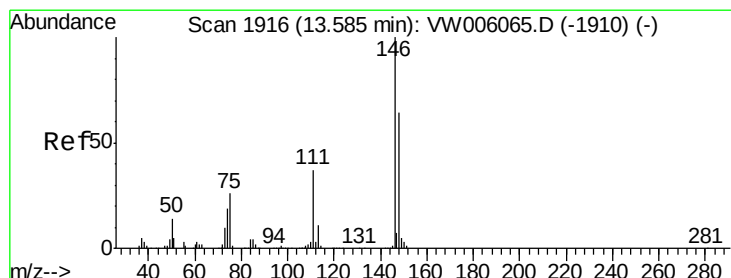
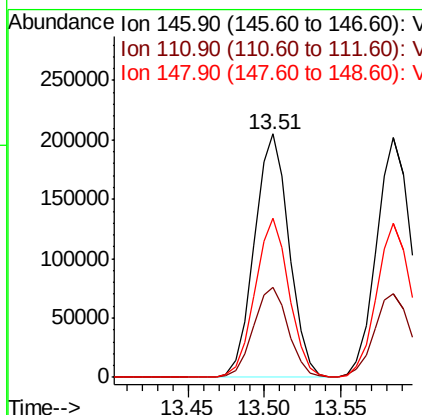
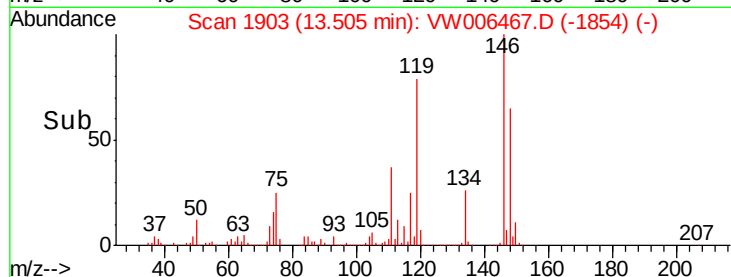
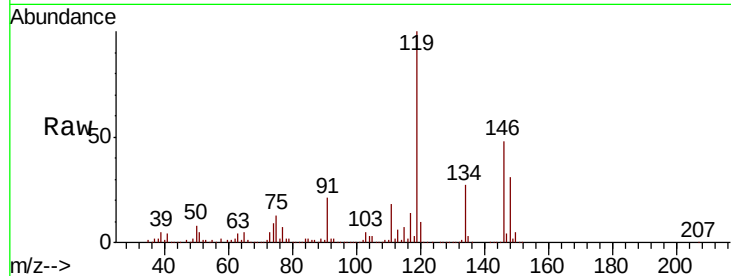
Instrument :
MSVOA_W

ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	19.1	57.5
148	64.1	32.0	96.2

Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM



#88

1,4-Dichlorobenzene

Concen: 58.896 ug/l

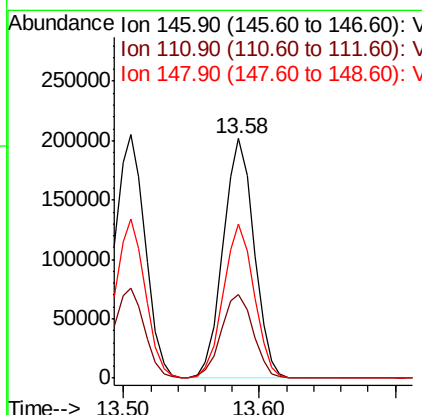
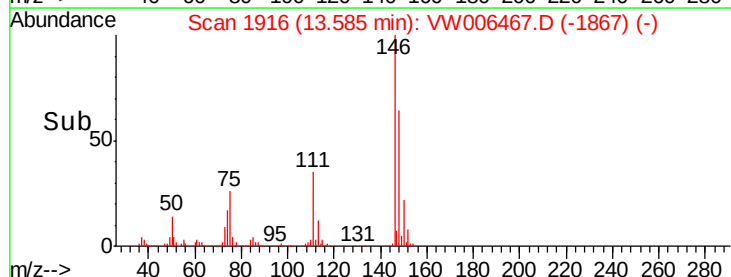
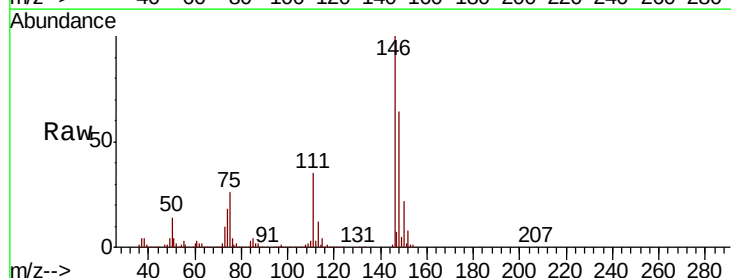
RT: 13.58 min Scan# 1916

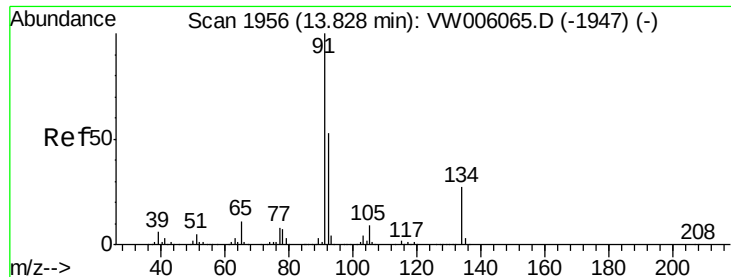
Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.6	56.0
148	63.8	32.1	96.5





#89

n-Butylbenzene

Concen: 57.358 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Instrument :

MSVOA_W

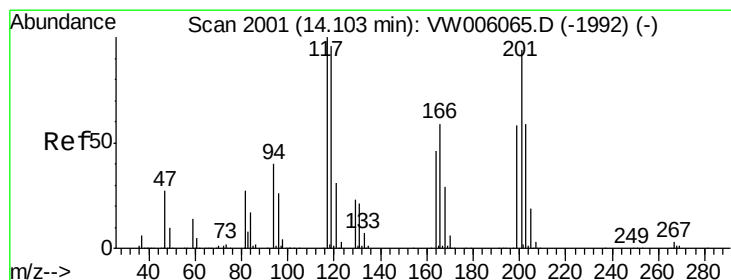
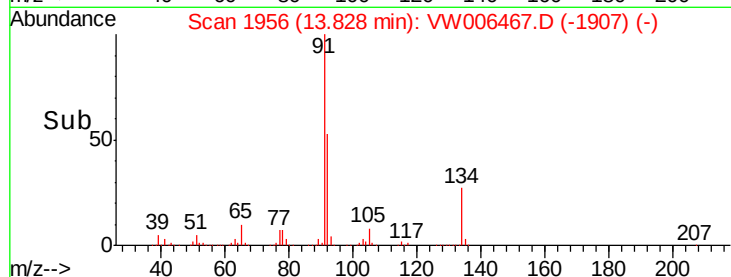
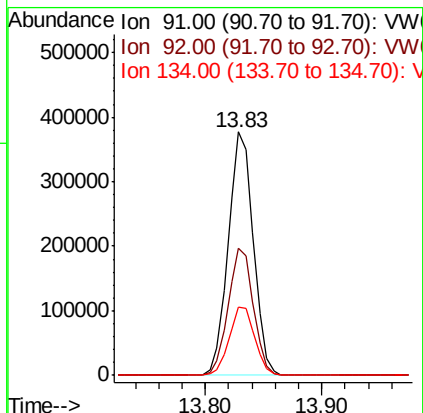
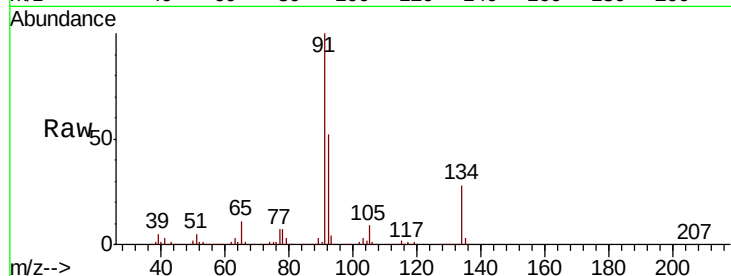
ClientSampleId :

VSTDCCC050

Tot Ion:	91	Resp:	563054
Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.6	79.7
134	28.5	14.0	41.9

Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM



#90

Hexachloroethane

Concen: 56.460 ug/l

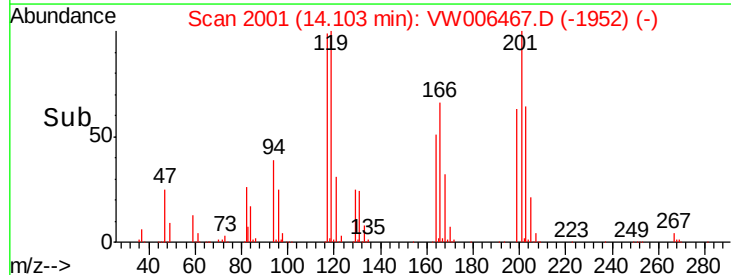
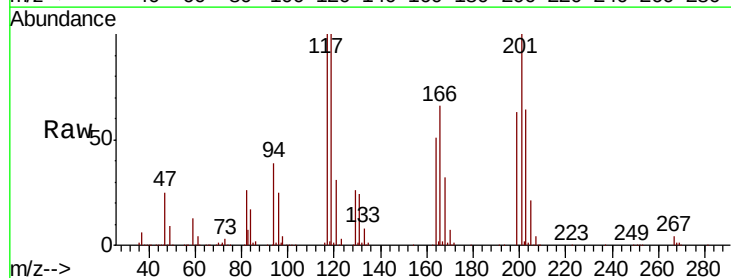
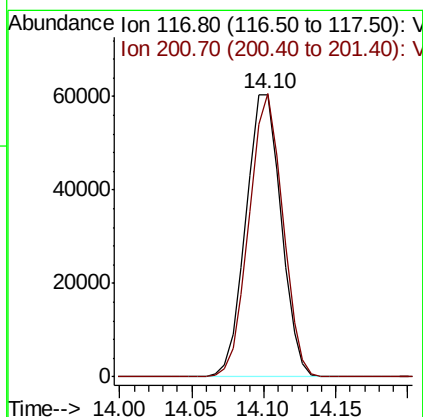
RT: 14.10 min Scan# 2001

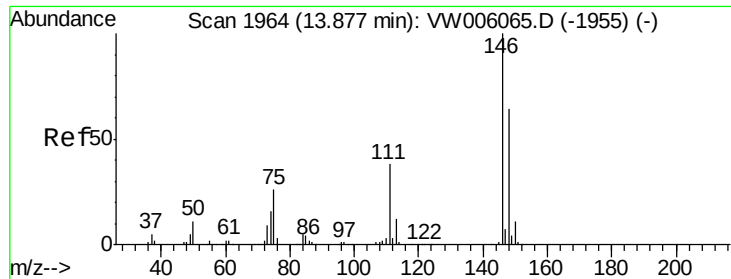
Delta R.T. -0.00 min

Lab File: VW006467.D

Acq: 29 Oct 2018 21:59

Tgt Ion:	117	Resp:	102652
Ion	Ratio	Lower	Upper
117	100		
201	95.4	45.3	135.9





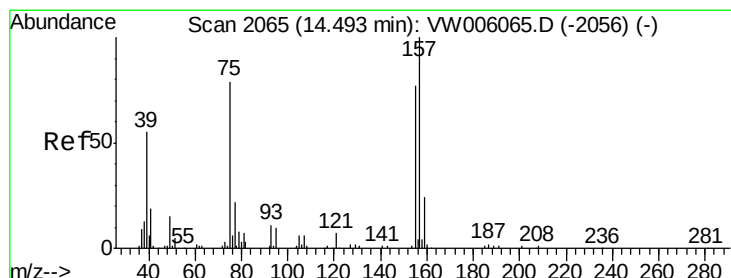
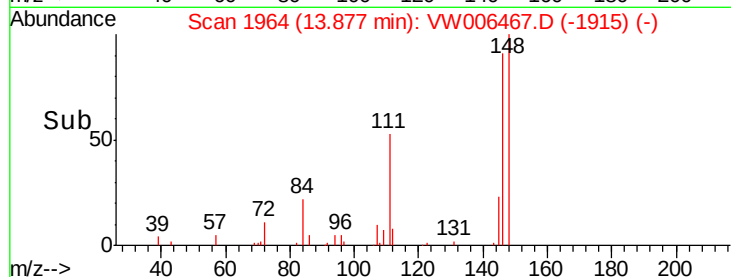
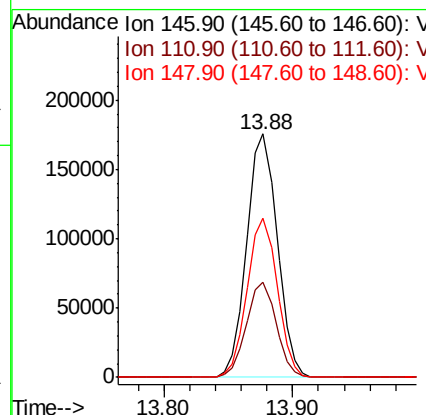
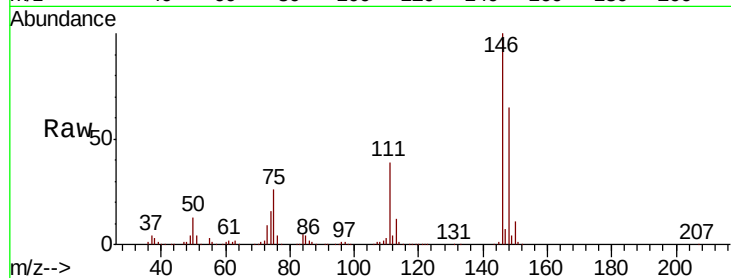
#91
 1,2-Dichlorobenzene
 Concen: 59.383 ug/l
 RT: 13.88 min Scan# 1964
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.6	58.7
148	64.5	32.2	96.6

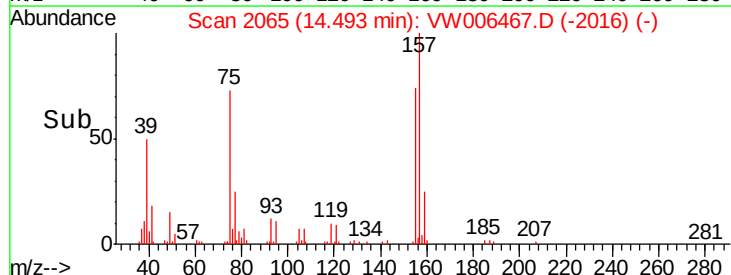
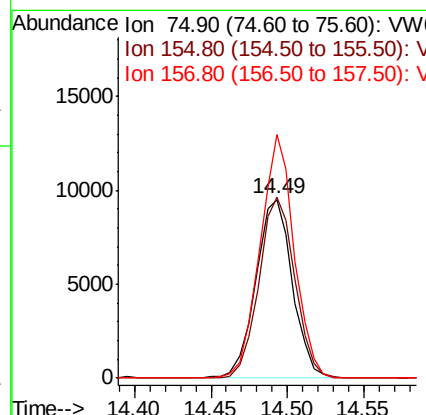
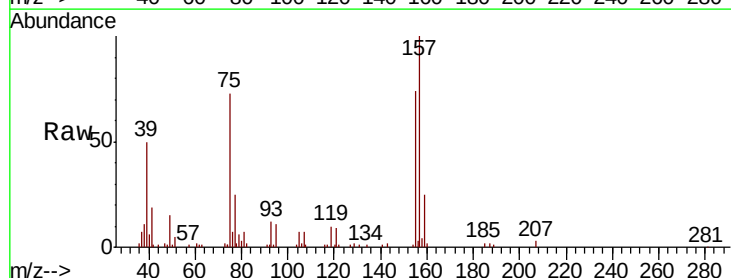
Manual Integrations
 APPROVED

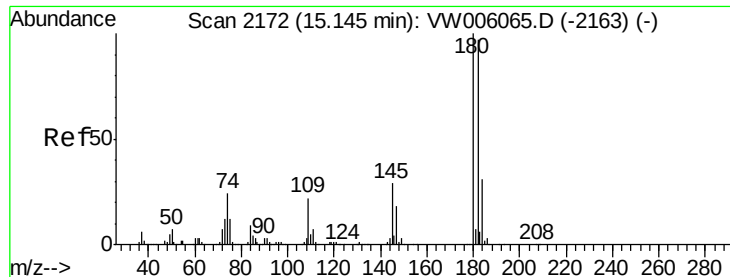
apatel
 10/30/2018 2:16:15 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 52.114 ug/l
 RT: 14.49 min Scan# 2065
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	99.3	46.5	139.5
157	127.3	59.8	179.4





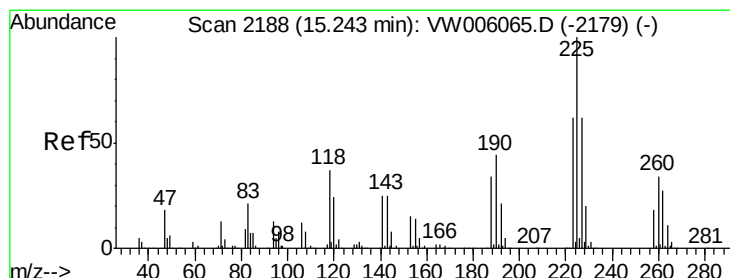
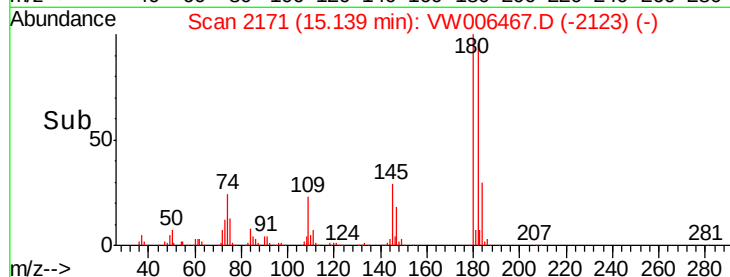
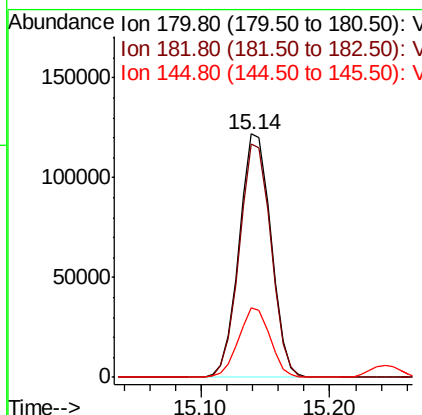
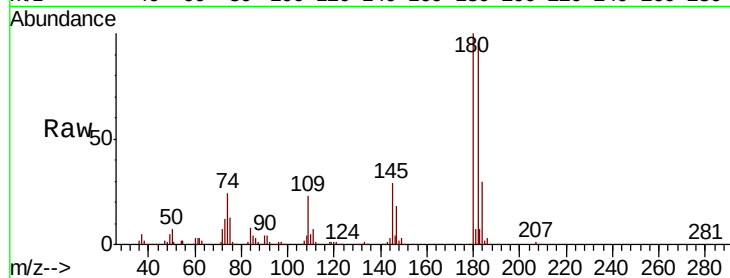
#93
 1,2,4-Trichlorobenzene
 Concen: 55.874 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.01 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	208189		
182	95.5	47.9	143.6	
145	28.2	14.2	42.8	

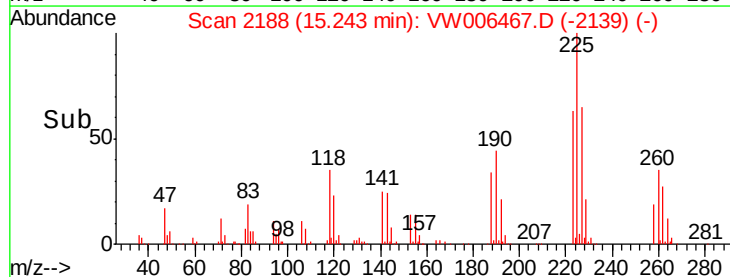
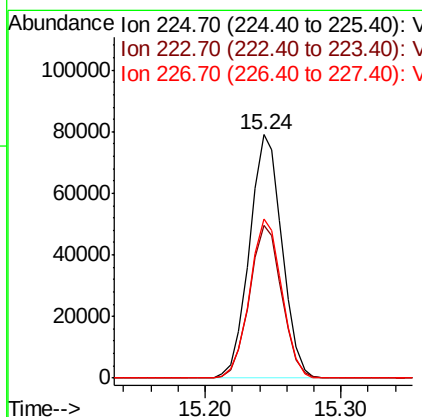
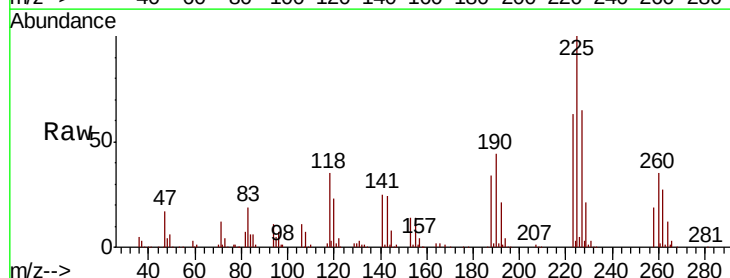
Manual Integrations
 APPROVED

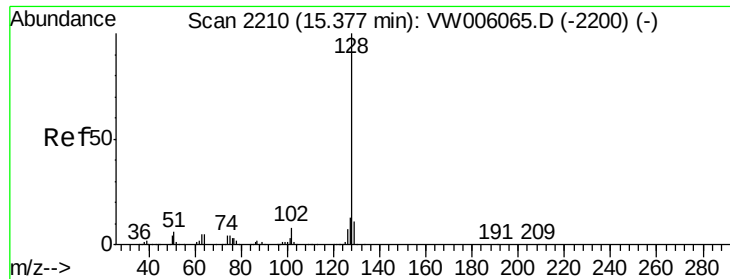
apatel
 10/30/2018 2:16:15 PM



#94
 Hexachlorobutadiene
 Concen: 56.469 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. -0.00 min
 Lab File: VW006467.D
 Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	132174		
223	62.4	31.1	93.5	
227	64.6	32.4	97.0	





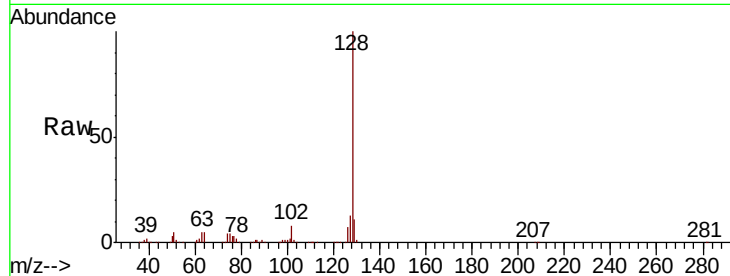
#95
Naphthalene
Concen: 54.683 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.0	8.7	13.1

Manual Integrations
APPROVED

apatel
10/30/2018 2:16:15 PM

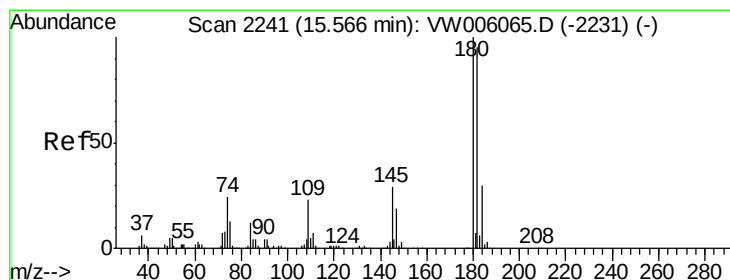
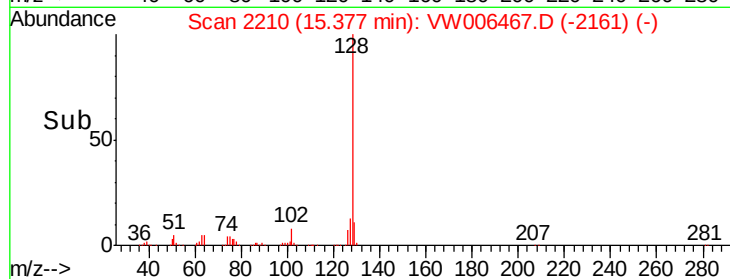
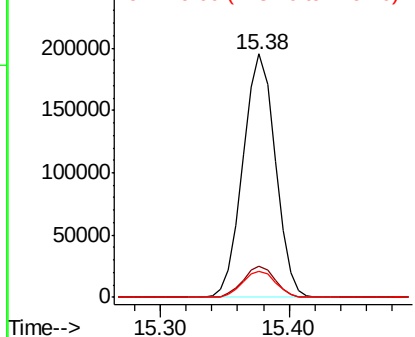


Abundance

Ion 128.00 (127.70 to 128.70): V

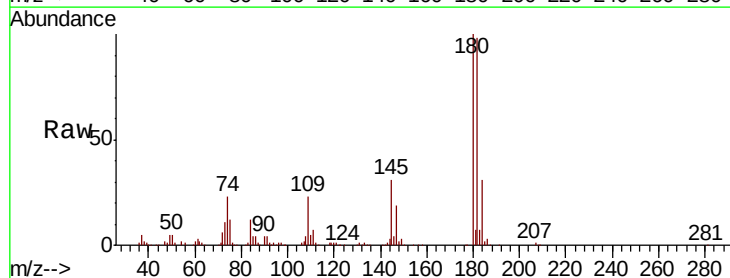
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 55.465 ug/l
RT: 15.57 min Scan# 2241
Delta R.T. -0.00 min
Lab File: VW006467.D
Acq: 29 Oct 2018 21:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	47.8	143.3
145	30.2	15.0	45.1



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

