

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081319\
 Data File : VX011538.D
 Acq On : 13 Aug 2019 16:04
 Operator : JC/SP
 Sample : K4279-07MSD
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0668MSD

Manual Integrations
 APPROVED

MMDadoda
 8/14/2019 11:32:05 AM

Quant Time: Aug 14 02:14:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	167050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	251214	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	231164	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	123595	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	98753	58.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.40%	
35) Dibromofluoromethane	5.49	113	83663	51.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.02%	
50) Toluene-d8	8.71	98	296755	47.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.86%	
62) 4-Bromofluorobenzene	11.13	95	116231	52.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.19	85	54393	42.159	ug/l	99
3) Chloromethane	1.32	50	60427	41.707	ug/l	99
4) Vinyl Chloride	1.40	62	65339	40.998	ug/l	99
5) Bromomethane	1.63	94	51518	45.325	ug/l	100
6) Chloroethane	1.71	64	43401	43.655	ug/l	98
7) Trichlorofluoromethane	1.92	101	117967	41.630	ug/l	99
8) Diethyl Ether	2.18	74	43325	42.818	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	67160	43.802	ug/l	98
10) Methyl Iodide	2.50	142	87537	45.284	ug/l	96
11) Tert butyl alcohol	3.04	59	90154	268.746	ug/l	99
12) 1,1-Dichloroethene	2.36	96	66905	44.020	ug/l	88
13) Acrolein	2.29	56	49829	238.998	ug/l	98
14) Allyl chloride	2.72	41	107302	52.957	ug/l	97
15) Acrylonitrile	3.14	53	217658	271.896	ug/l	99
16) Acetone	2.44	43	185052	231.103	ug/l	96
17) Carbon Disulfide	2.56	76	146563	41.093	ug/l	100
18) Methyl Acetate	2.76	43	101361	55.392	ug/l	98
19) Methyl tert-butyl Ether	3.19	73	248381	55.454	ug/l	# 86
20) Methylene Chloride	2.85	84	81564	46.511	ug/l	98
21) trans-1,2-Dichloroethene	3.16	96	73836	45.925	ug/l	93
22) Diisopropyl ether	3.85	45	237772	53.393	ug/l	98
23) Vinyl Acetate	3.81	43	1030645	279.037	ug/l	98
24) 1,1-Dichloroethane	3.69	63	134650	51.277	ug/l	99
25) 2-Butanone	4.67	43	298670	262.211	ug/l	98
26) 2,2-Dichloropropane	4.58	77	100761	49.362	ug/l	97
27) cis-1,2-Dichloroethene	4.59	96	90623	48.936	ug/l	97
28) Bromochloromethane	5.01	49	62023	51.810	ug/l	95
29) Tetrahydrofuran	5.12	42	186684	267.301	ug/l	100
30) Chloroform	5.21	83	151930	53.234	ug/l	97
31) Cyclohexane	5.57	56	266096	122.827	ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	130772	53.488	ug/l	99
36) 1,1-Dichloropropene	5.79	75	100726	45.924	ug/l	98
37) Ethyl Acetate	4.83	43	110552	50.249	ug/l	99
38) Carbon Tetrachloride	5.78	117	113255	51.324	ug/l	95

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 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	171124	65.821	ug/l	98
40) Benzene	6.13	78	355054	54.247	ug/l	99
41) Methacrylonitrile	5.04	41	63279	52.666	ug/l	97
42) 1,2-Dichloroethane	6.18	62	120708	54.540	ug/l	96
43) Isopropyl Acetate	6.44	43	184690	52.507	ug/l	99
44) Trichloroethene	7.21	130	88245	44.543	ug/l	99
45) 1,2-Dichloropropane	7.51	63	81846	48.285	ug/l	100
46) Dibromomethane	7.66	93	59711	48.254	ug/l	97
47) Bromodichloromethane	7.90	83	113436	54.145	ug/l	98
48) Methyl methacrylate	7.77	41	94757	57.243	ug/l	97
49) 1,4-Dioxane	7.74	88	38949	811.609	ug/l	95
51) 4-Methyl-2-Pentanone	8.64	43	608087	267.879	ug/l	99
52) Toluene	8.78	92	205103	47.396	ug/l	99
53) t-1,3-Dichloropropene	9.04	75	120178	49.298	ug/l	99
54) cis-1,3-Dichloropropene	8.43	75	126784	51.806	ug/l	97
55) 1,1,2-Trichloroethane	9.21	97	89992	50.579	ug/l	99
56) Ethyl methacrylate	9.18	69	136531	53.847	ug/l	98
57) 1,3-Dichloropropane	9.37	76	141593	50.320	ug/l	99
59) 2-Hexanone	9.49	43	461205	262.307	ug/l	98
60) Dibromochloromethane	9.58	129	97045	53.274	ug/l	99
61) 1,2-Dibromoethane	9.67	107	95812	49.843	ug/l	99
64) Tetrachloroethene	9.34	164	79233	40.360	ug/l	96
65) Chlorobenzene	10.13	112	234048	47.221	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.22	131	89529	52.761	ug/l	98
67) Ethyl Benzene	10.25	91	1878203	226.267	ug/l	99
68) m/p-Xylenes	10.35	106	340195	105.955	ug/l	96
69) o-Xylene	10.69	106	155242	49.210	ug/l	97
70) Styrene	10.71	104	260541	49.913	ug/l	97
71) Bromoform	10.85	173	72980	48.209	ug/l	# 99
73) Isopropylbenzene	11.02	105	558974	66.127	ug/l	99
74) N-amyl acetate	10.90	43	164779	53.949	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.27	83	140502	49.877	ug/l	99
76) 1,2,3-Trichloropropane	11.29	75	119352m	53.026	ug/l	
77) Bromobenzene	11.25	156	113301	48.337	ug/l	96
78) n-propylbenzene	11.36	91	640204	68.105	ug/l	99
79) 2-Chlorotoluene	11.42	91	275051	49.091	ug/l	98
80) 1,3,5-Trimethylbenzene	11.51	105	341579	48.272	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.07	75	39420	47.059	ug/l	97
82) 4-Chlorotoluene	11.51	91	316752	48.509	ug/l	97
83) tert-Butylbenzene	11.77	119	344146	49.588	ug/l	98
84) 1,2,4-Trimethylbenzene	11.80	105	1368420	194.236	ug/l	100
85) sec-Butylbenzene	11.94	105	413949	49.645	ug/l	100
86) p-Isopropyltoluene	12.06	119	372525	48.564	ug/l	99
87) 1,3-Dichlorobenzene	12.02	146	195600	47.228	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	197279	46.194	ug/l	98
89) n-Butylbenzene	12.38	91	322339	48.775	ug/l	98
90) Hexachloroethane	12.59	117	64969	57.288	ug/l	92
91) 1,2-Dichlorobenzene	12.39	146	199256	47.882	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.00	75	31245	57.250	ug/l	92
93) 1,2,4-Trichlorobenzene	13.65	180	136358	49.410	ug/l	99

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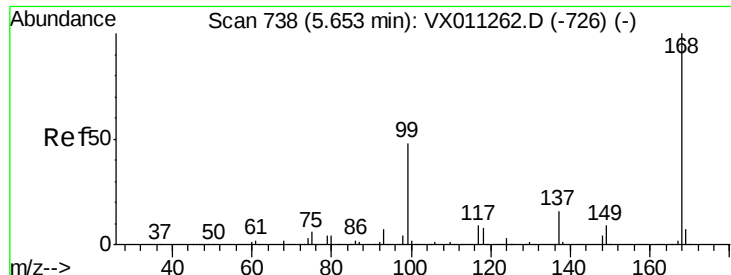
Manual Integrations
APPROVED

MMDadoda
8/14/2019 11:32:05 AM

Quant Time: Aug 14 02:14:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	13.78	225	63741	45.524	ug/l	98
95) Naphthalene	13.83	128	958962	118.823	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	137995	49.185	ug/l	99

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



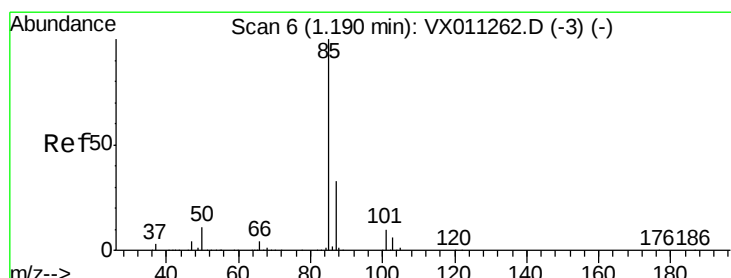
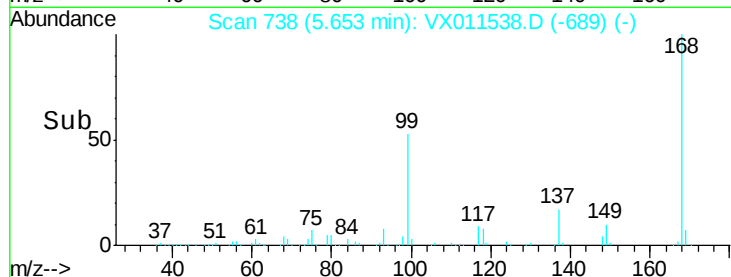
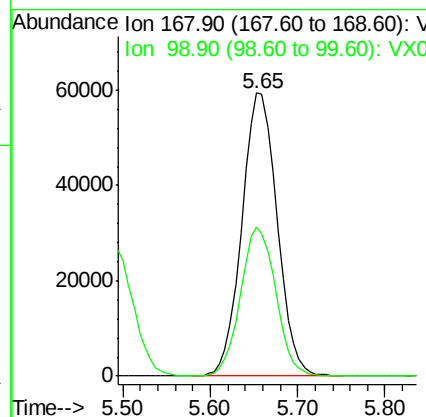
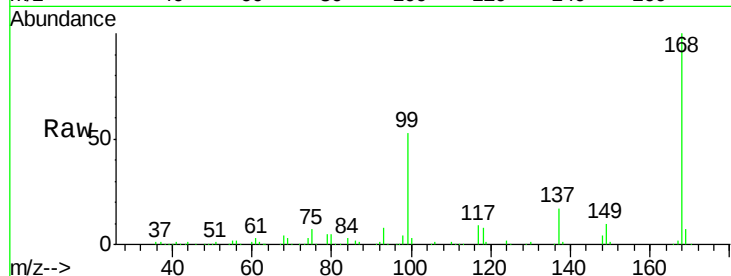
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampleId :
Z3-0668MSD

Tot Ion	Ion	Ratio	Lower	Upper
168	100			
99	52.6	38.5	57.7	

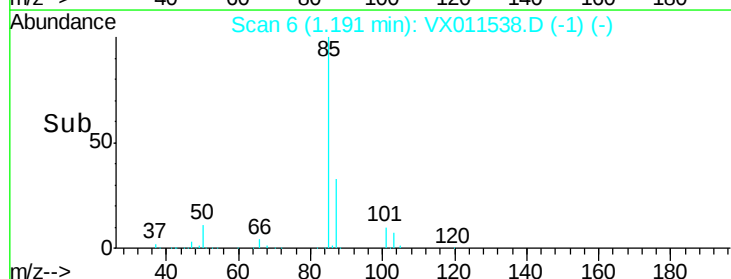
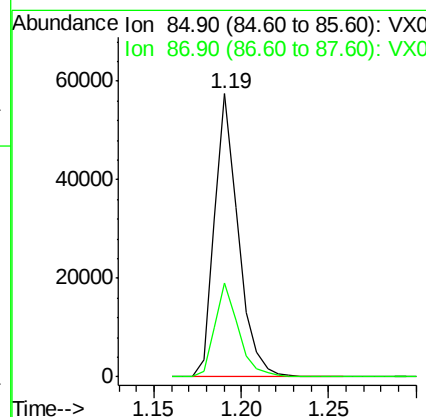
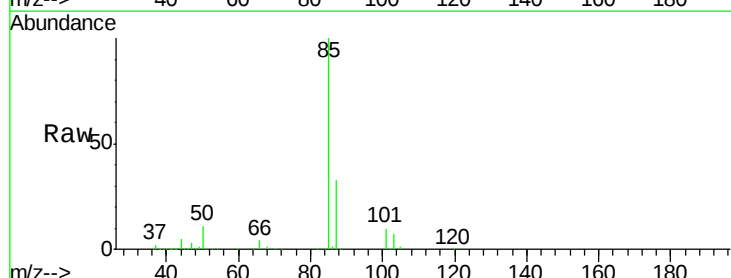
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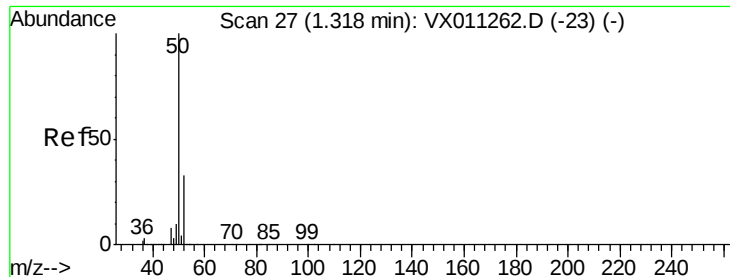
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#2
Dichlorodifluoromethane
Concen: 42.159 ug/l
RT: 1.19 min Scan# 6
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ion	Ratio	Lower	Upper
85	100			
87	33.1	16.4	49.1	





#3

Chloromethane

Concen: 41.707 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z3-0668MSD

Tot Ion: 50 Resp: 60427

Ion Ratio Lower Upper

50 100

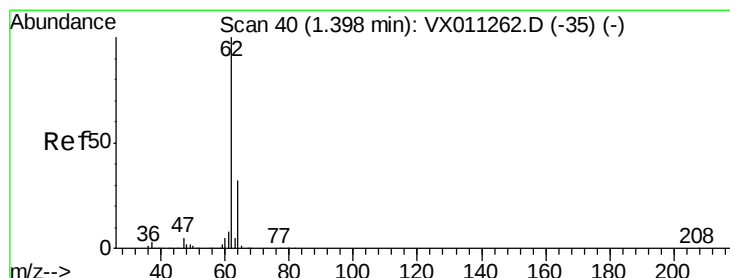
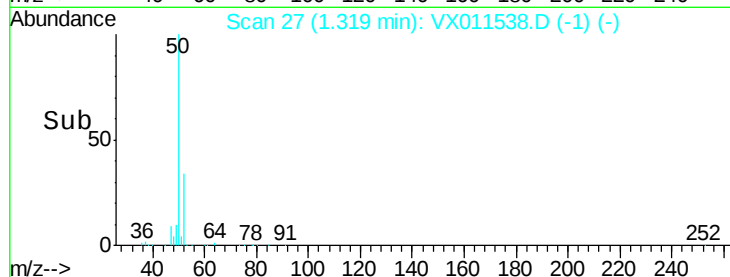
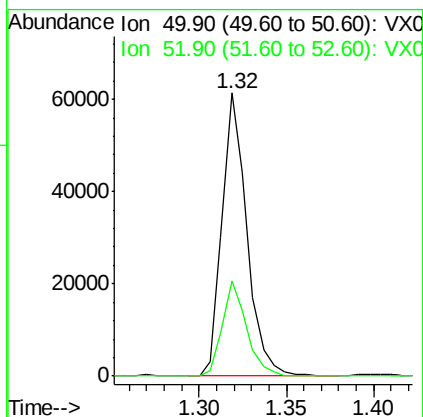
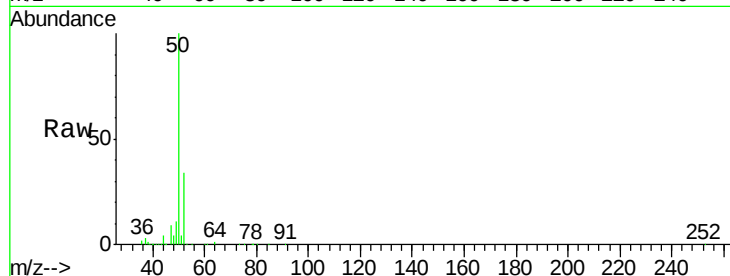
52 33.5 26.4 39.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 40.998 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.01 min

Lab File: VX011538.D

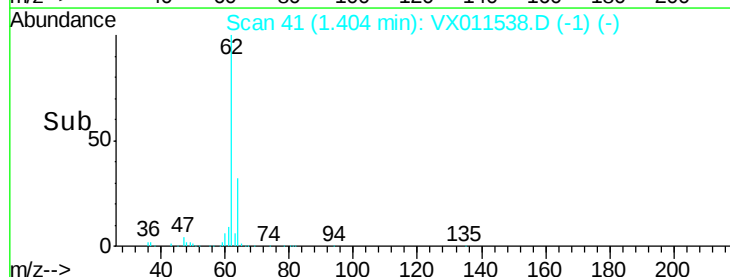
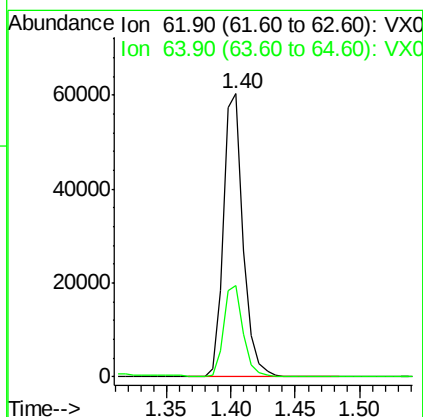
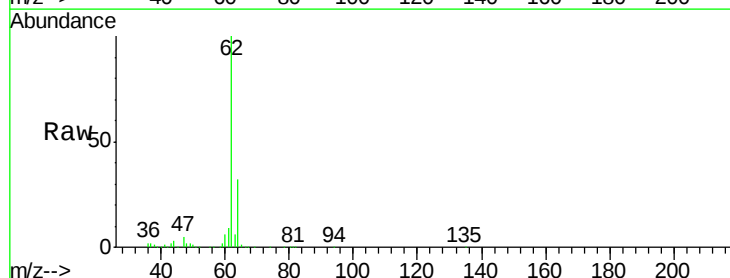
Acq: 13 Aug 2019 16:04

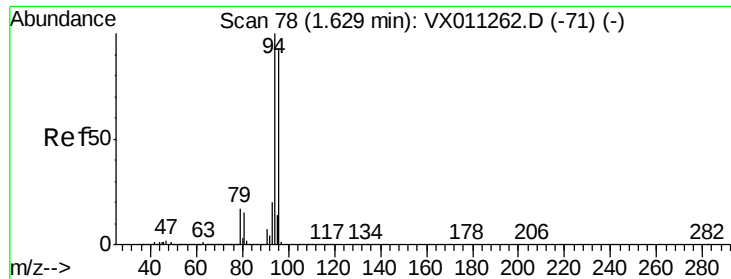
Tgt Ion: 62 Resp: 65339

Ion Ratio Lower Upper

62 100

64 32.2 26.0 39.0





#5

Bromomethane

Concen: 45.325 ug/l

RT: 1.63 min Scan# 78

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z3-0668MSD

Tot Ion: 94 Resp: 51518

Ion Ratio Lower Upper

94 100

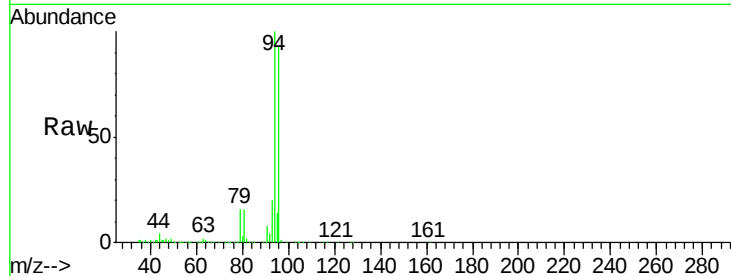
96 93.0 74.6 112.0

Manual Integrations

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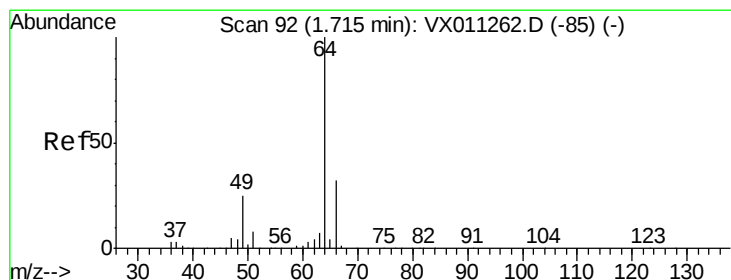
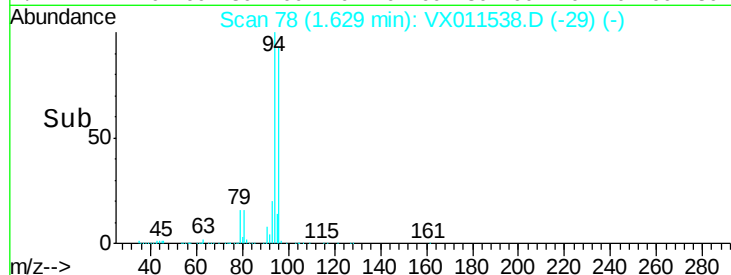
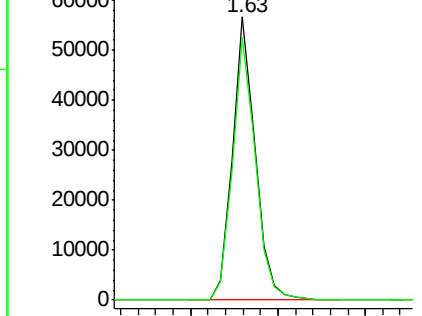
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Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 43.655 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX011538.D

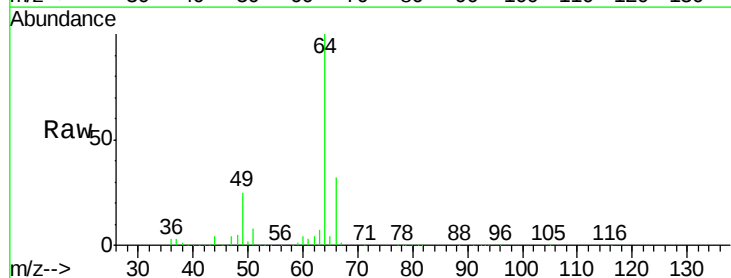
Acq: 13 Aug 2019 16:04

Tgt Ion: 64 Resp: 43401

Ion Ratio Lower Upper

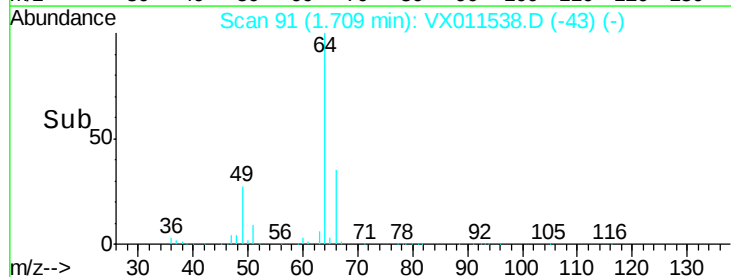
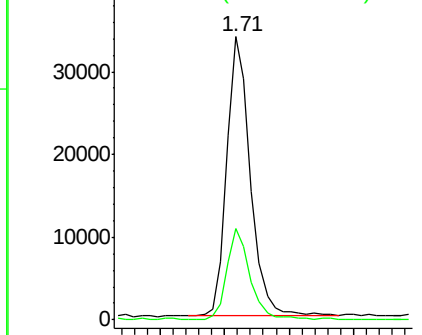
64 100

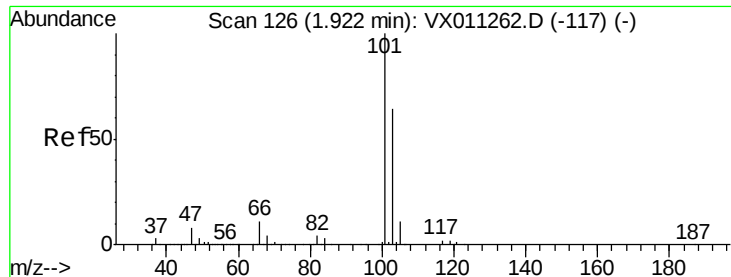
66 32.5 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#7

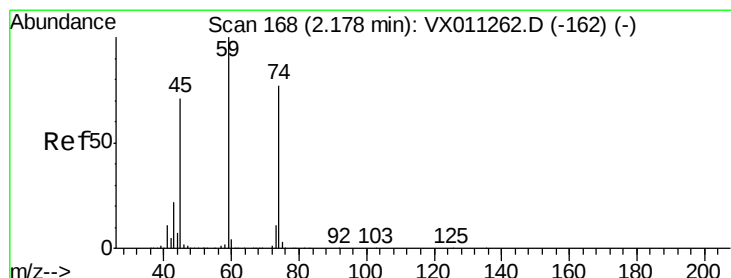
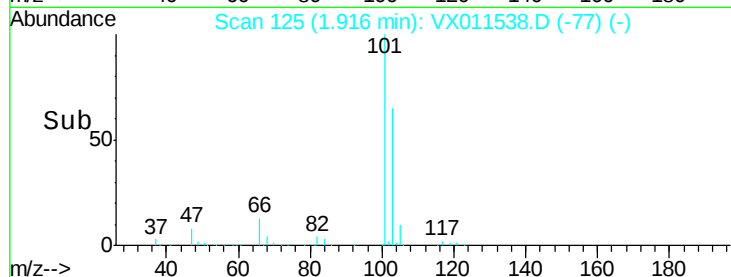
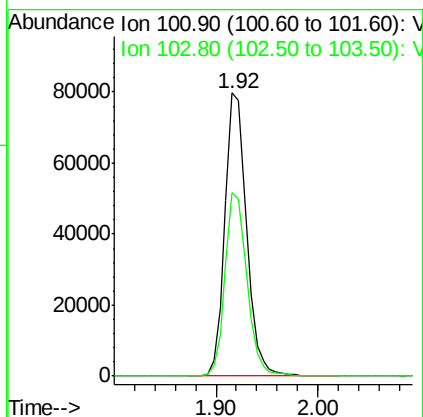
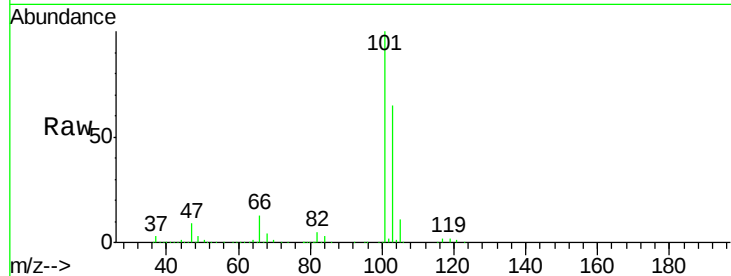
Trichlorofluoromethane
Concen: 41.630 ug/l
RT: 1.92 min Scan# 125
Delta R.T. -0.01 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
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ClientSampleId :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		117967		
103	64.6	50.9	76.3		

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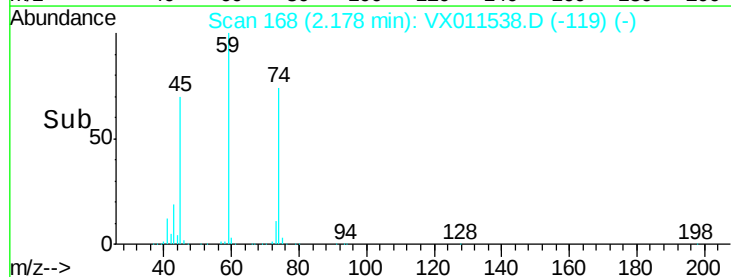
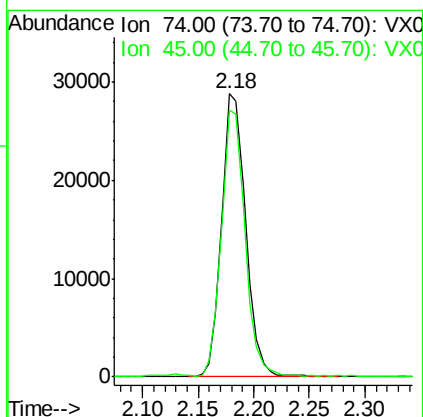
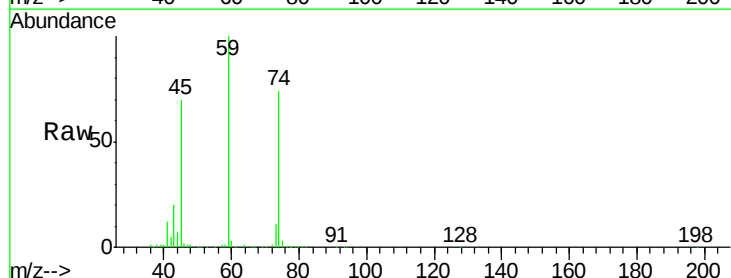
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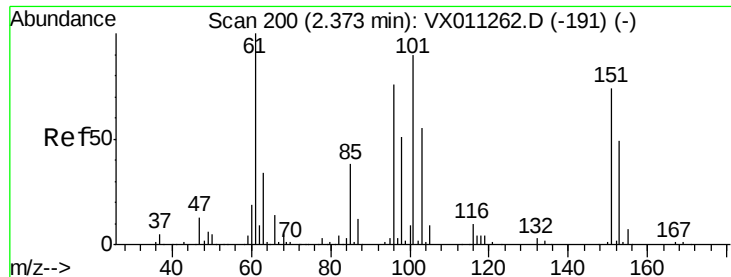


#8

Diethyl Ether
Concen: 42.818 ug/l
RT: 2.18 min Scan# 168
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		43325		
45	91.5	46.1	138.3		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 43.802 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

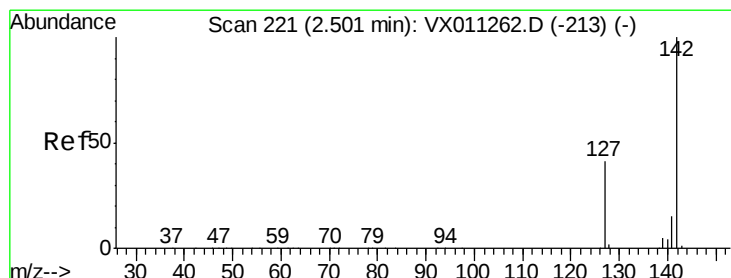
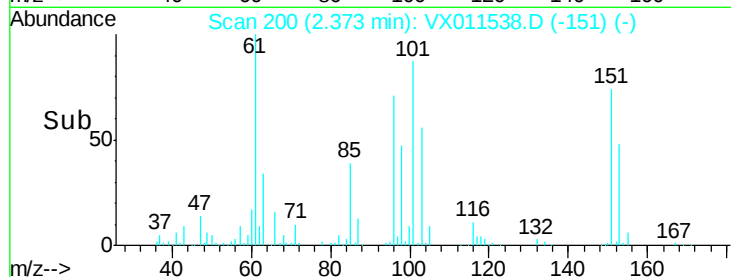
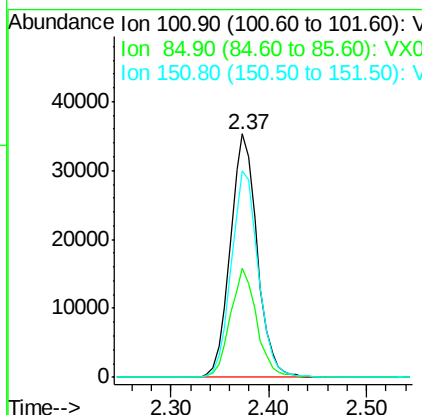
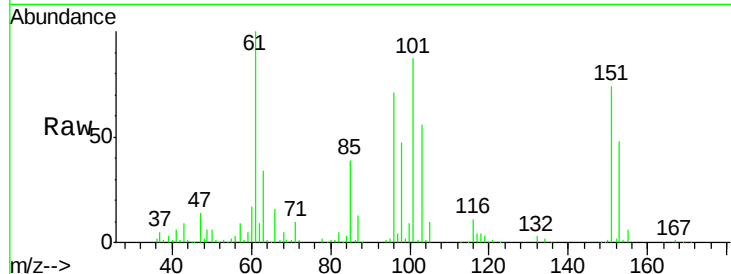
ClientSampleId :

Z3-0668MSD

Tot Ion:	101	Resp:	67160
Ion Ratio	Lower	Upper	
101	100		
85	44.0	33.8	50.6
151	85.2	69.5	104.3

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#10

Methyl Iodide

Concen: 45.284 ug/l

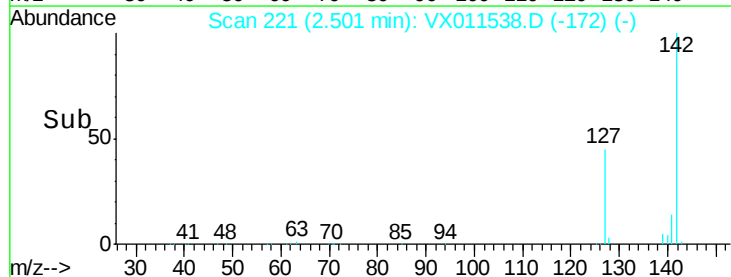
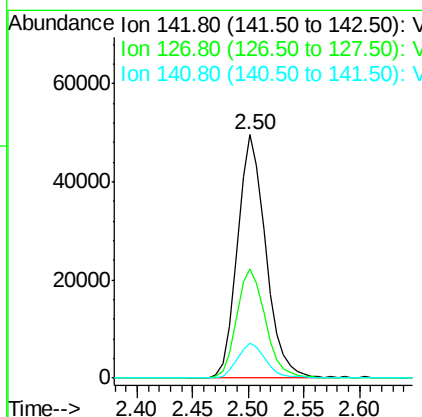
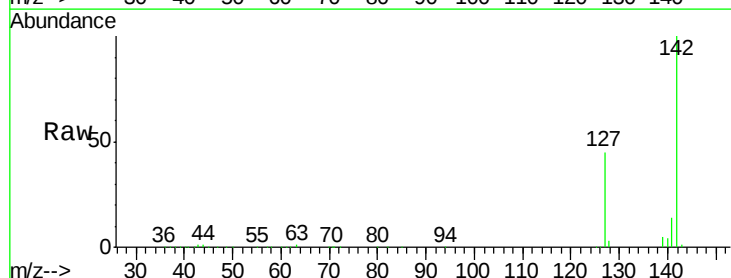
RT: 2.50 min Scan# 221

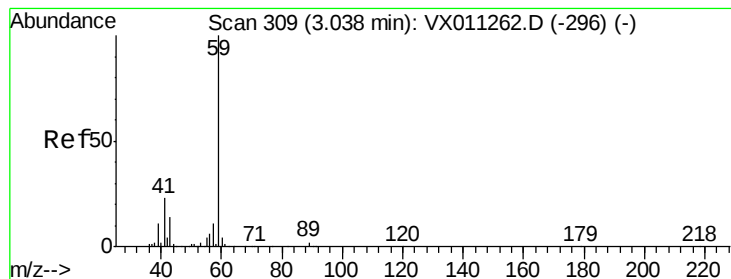
Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Tgt Ion:	142	Resp:	87537
Ion Ratio	Lower	Upper	
142	100		
127	45.7	33.8	50.8
141	14.3	11.4	17.2





#11

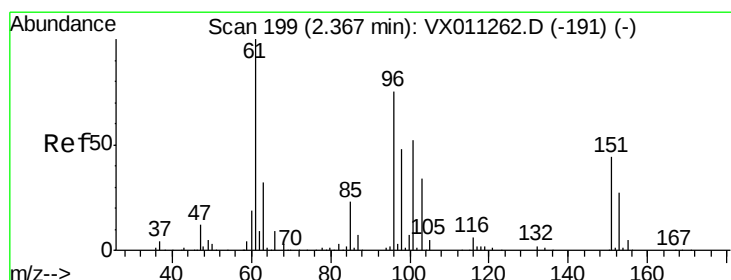
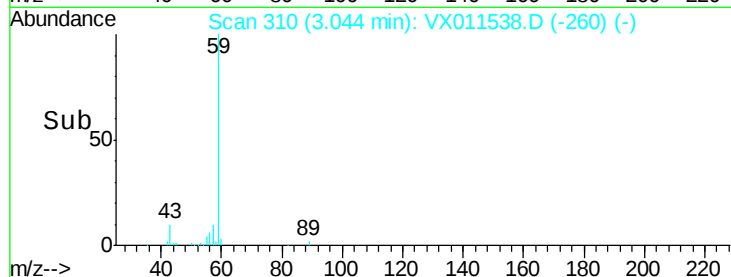
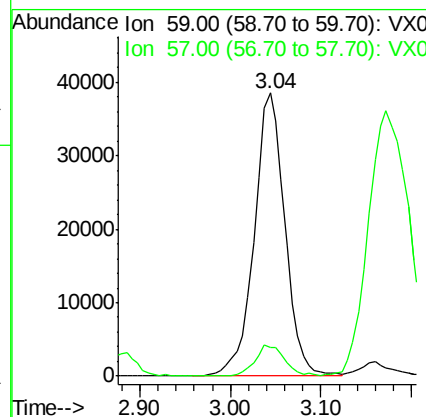
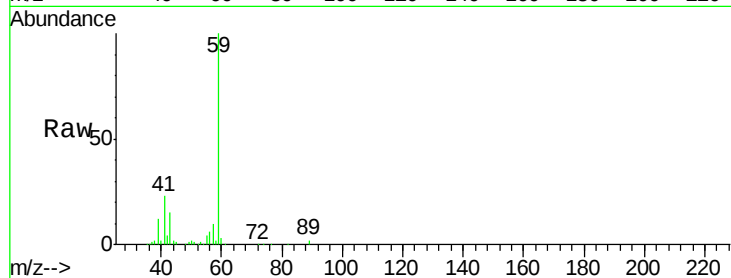
Tert butyl alcohol
Concen: 268.746 ug/l
RT: 3.04 min Scan# 310
Delta R.T. 0.01 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampleId :
Z3-0668MSD

Tot Ion	59	Resp	90154
Ion Ratio	100	Lower	Upper
57	10.7	8.3	12.5

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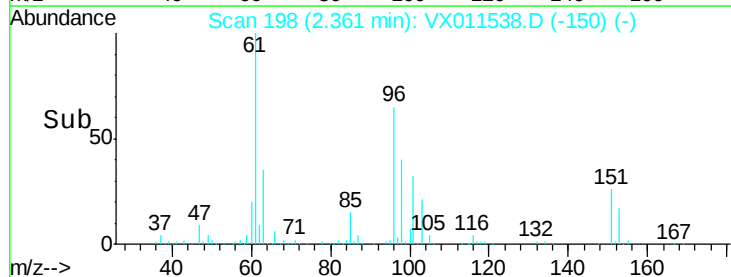
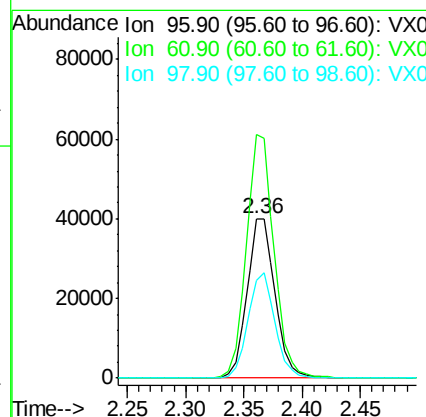
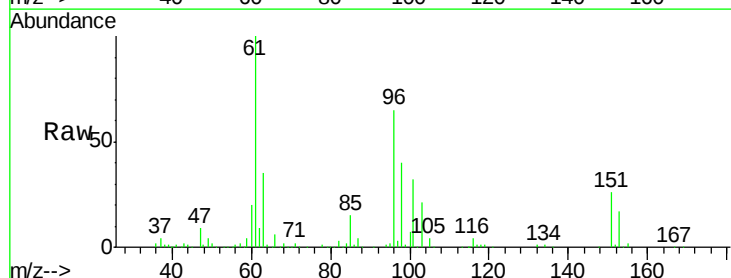
MMDadoda
8/14/2019 11:32:05 AM

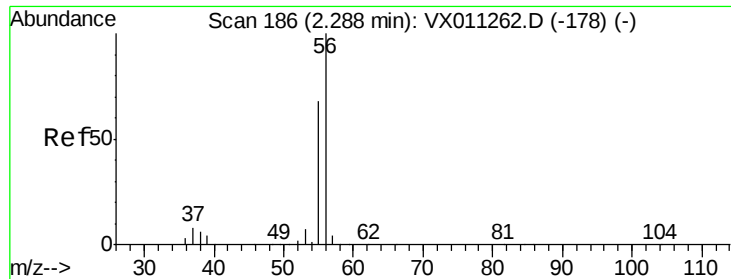


#12

1,1-Dichloroethene
Concen: 44.020 ug/l
RT: 2.36 min Scan# 198
Delta R.T. -0.01 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	96	Resp	66905
Ion Ratio	100	Lower	Upper
61	152.8	106.2	159.2
98	61.3	50.6	75.8





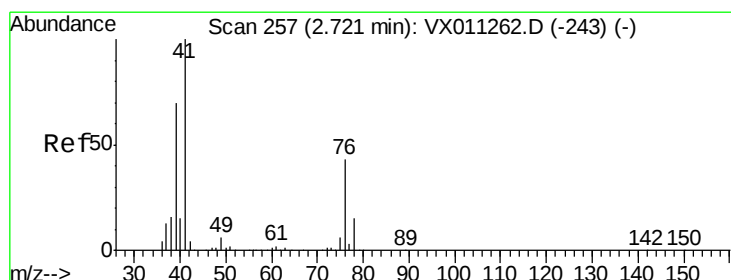
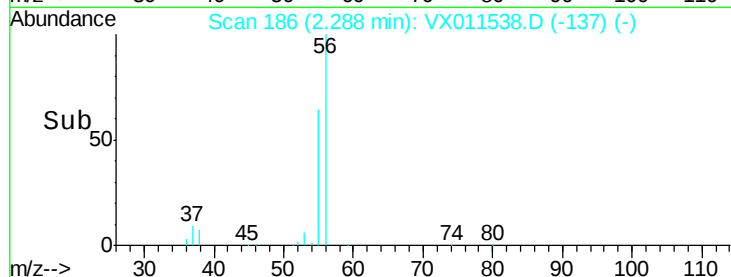
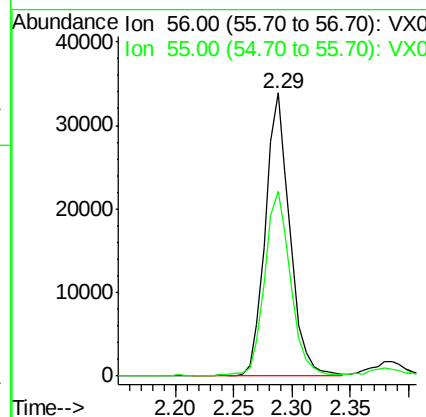
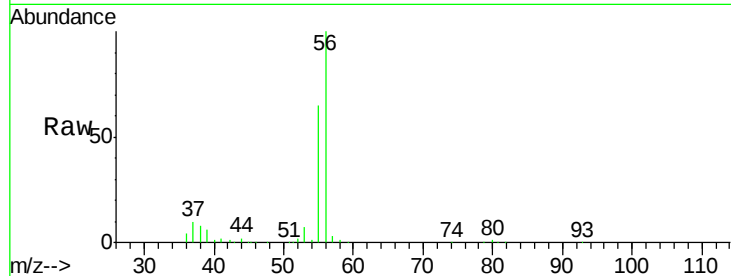
#13
Acrolein
Concen: 238.998 ug/l
RT: 2.29 min Scan# 186
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampleId :
Z3-0668MSD

Tot Ion	Ratio	Lower	Upper
56	100		
55	68.4	56.0	84.0

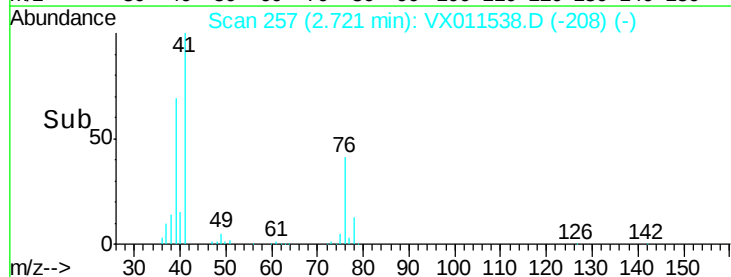
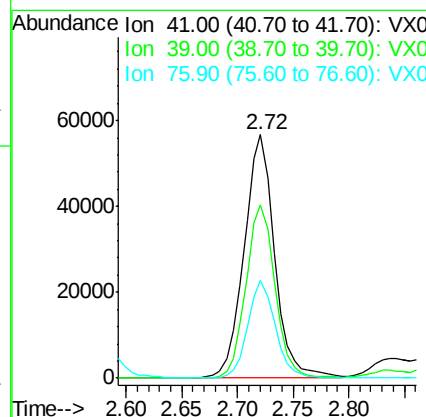
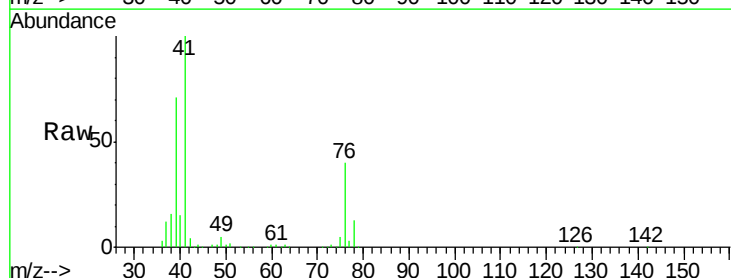
Manual Integrations
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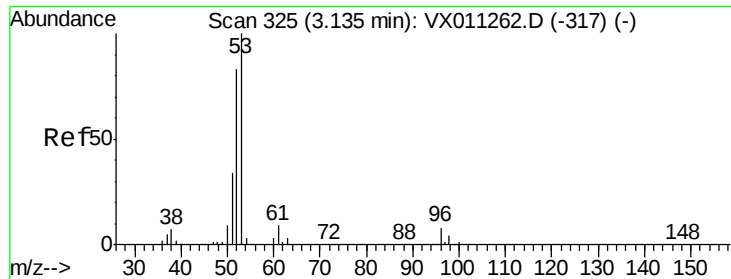
MMDadoda
8/14/2019 11:32:05 AM



#14
Allyl chloride
Concen: 52.957 ug/l
RT: 2.72 min Scan# 257
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Lower	Upper
41	100		
39	67.9	52.8	79.2
76	36.6	31.1	46.7





#15

Acrylonitrile

Concen: 271.896 ug/l

RT: 3.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

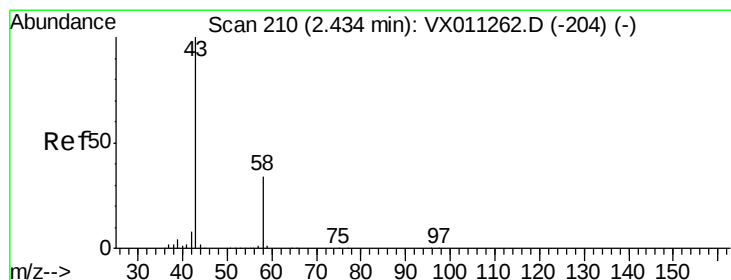
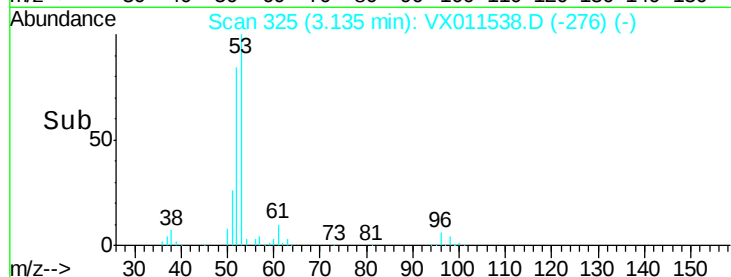
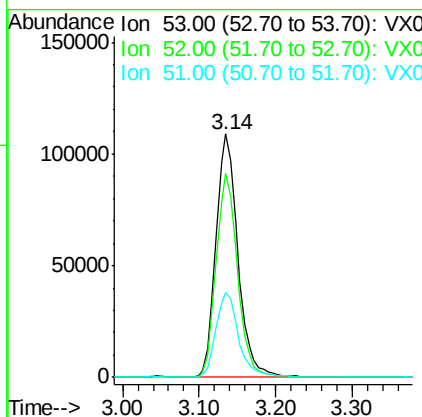
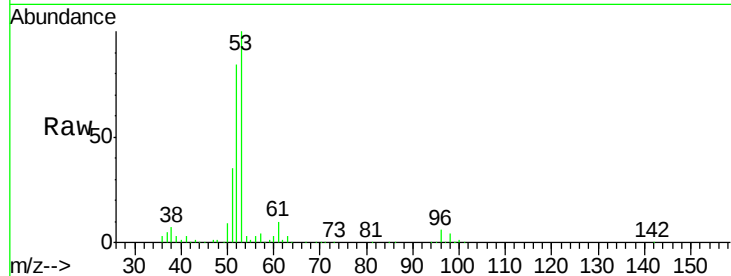
ClientSampled :

Z3-0668MSD

Tot Ion:	53	Resp:	217658
Ion Ratio	Lower	Upper	
53	100		
52	81.9	65.5	98.3
51	36.1	27.9	41.9

Manual Integrations
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#16

Acetone

Concen: 231.103 ug/l

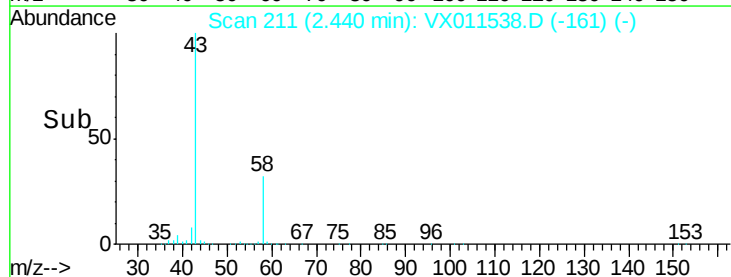
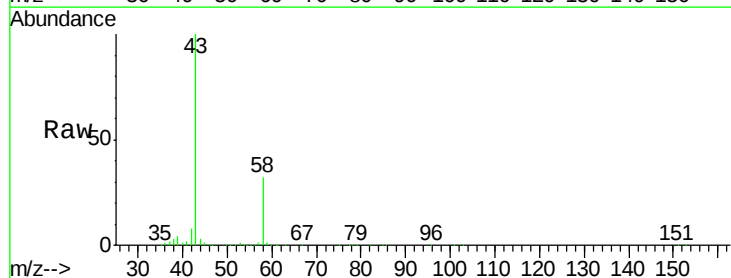
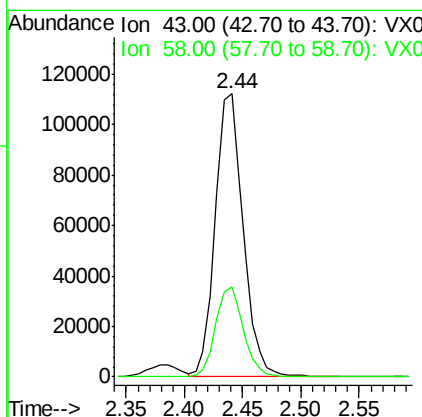
RT: 2.44 min Scan# 211

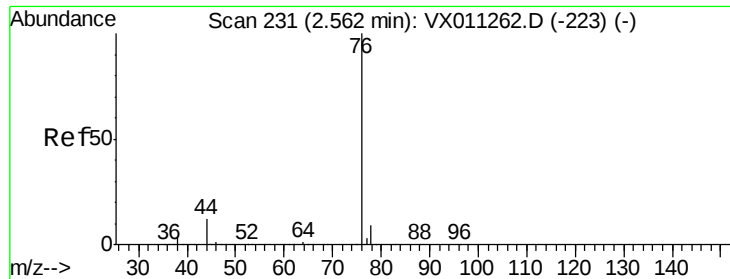
Delta R.T. 0.01 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Tgt Ion:	43	Resp:	185052
Ion Ratio	Lower	Upper	
43	100		
58	31.7	27.4	41.0





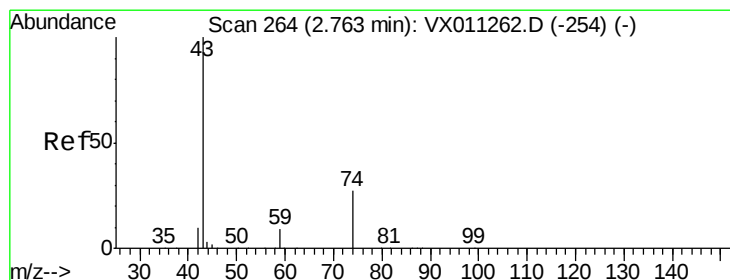
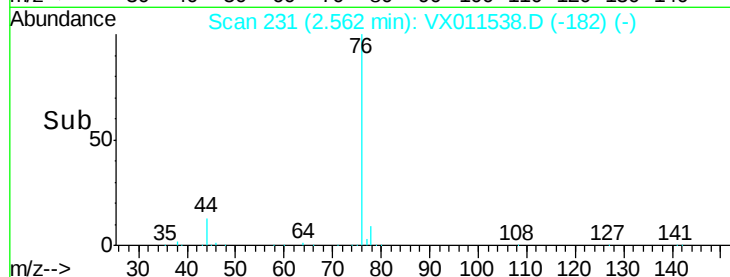
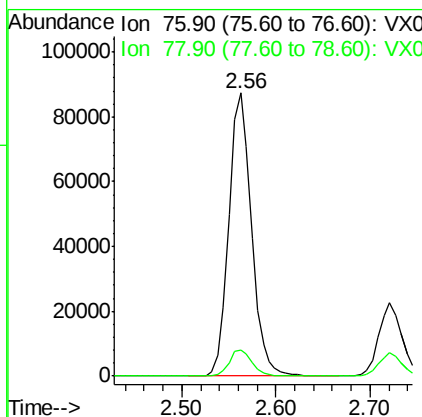
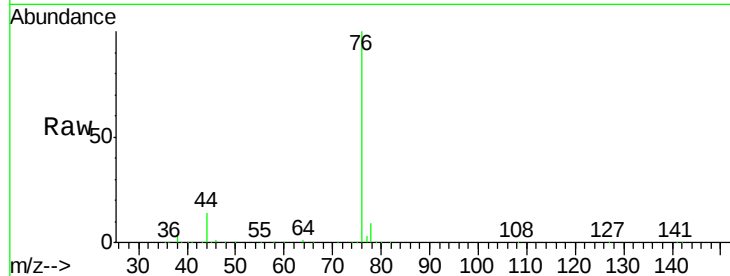
#17
Carbon Disulfide
Concen: 41.093 ug/l
RT: 2.56 min Scan# 231
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampleId :
Z3-0668MSD

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.4	11.0

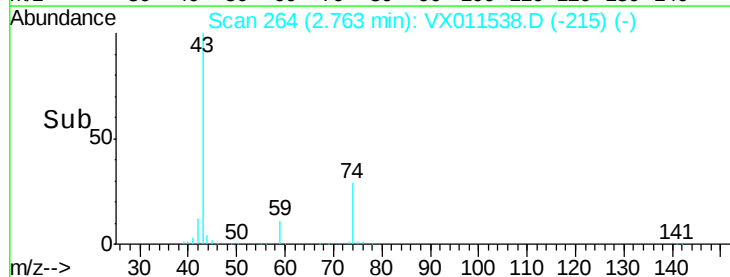
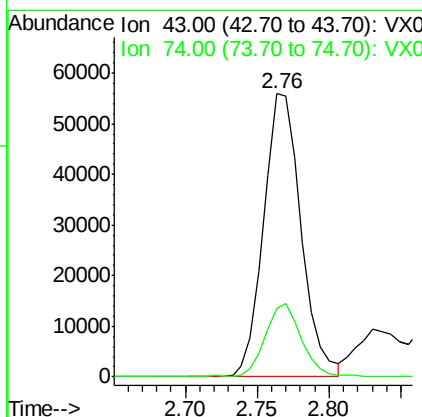
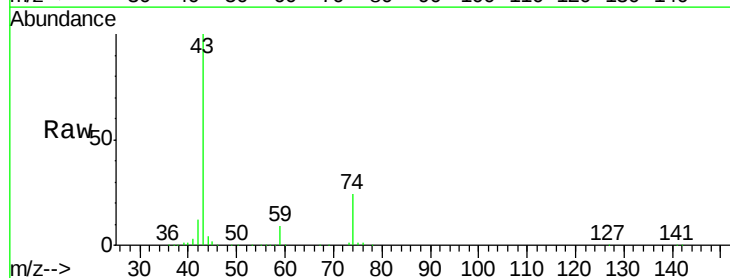
Manual Integrations
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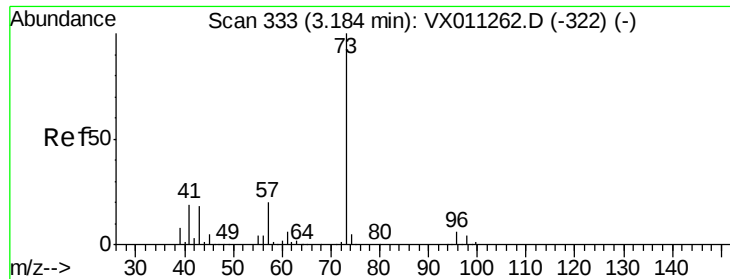
MMDadoda
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#18
Methyl Acetate
Concen: 55.392 ug/l
RT: 2.76 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.4	21.0	31.6





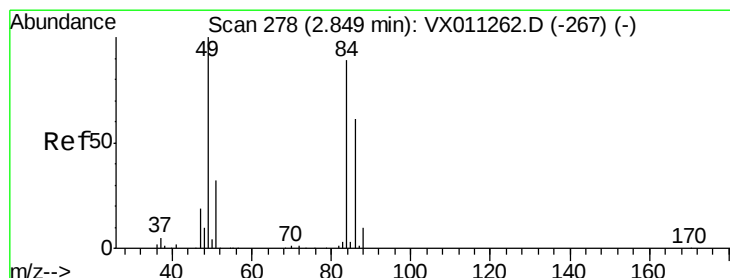
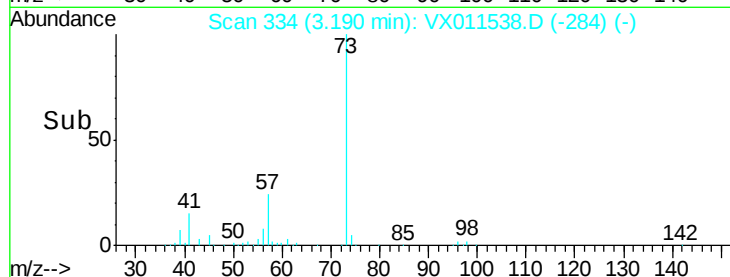
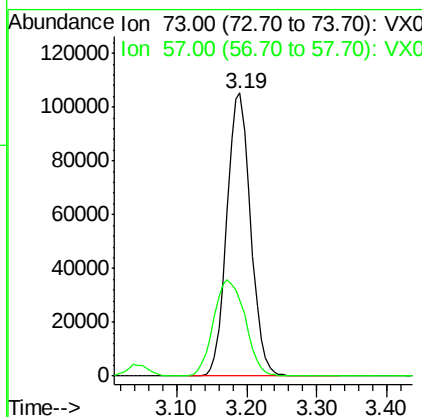
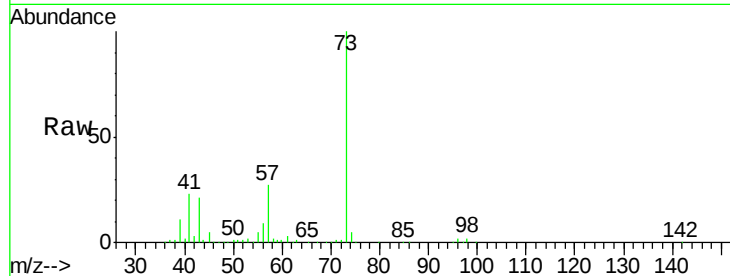
#19
Methvl tert-butvl Ether
Concen: 55.454 ug/l
RT: 3.19 min Scan# 334
Delta R.T. 0.01 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampleId :
Z3-0668MSD

Tot Ion: 73 Resp: 248381
Ion Ratio Lower Upper
73 100
57 26.8 16.2 24.2#

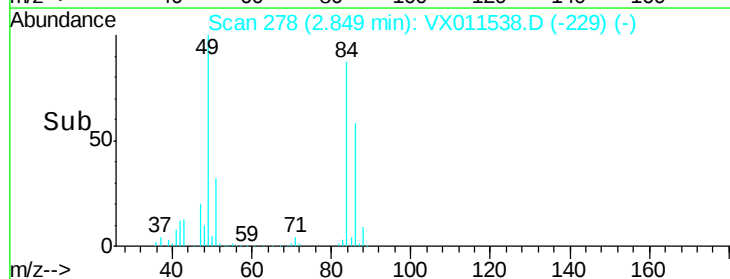
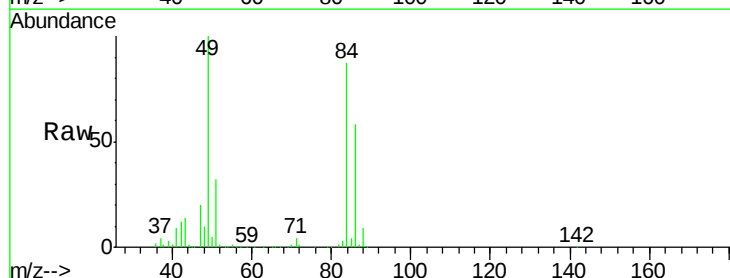
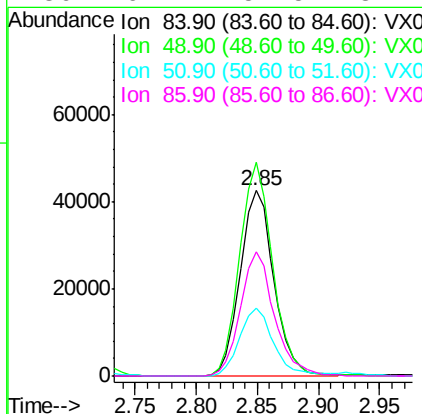
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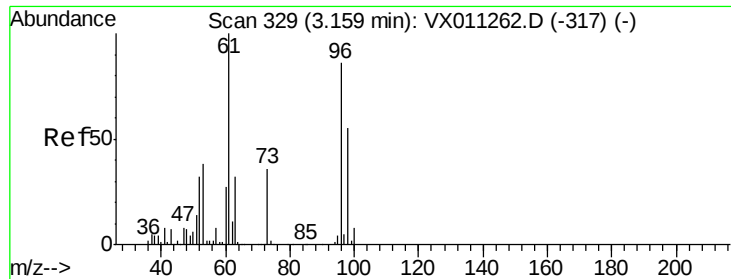
MMDadoda
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#20
Methylene Chloride
Concen: 46.511 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion: 84 Resp: 81564
Ion Ratio Lower Upper
84 100
49 115.2 89.3 133.9
51 36.2 28.3 42.5
86 67.4 54.5 81.7





#21

trans-1,2-Dichloroethene

Concen: 45.925 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

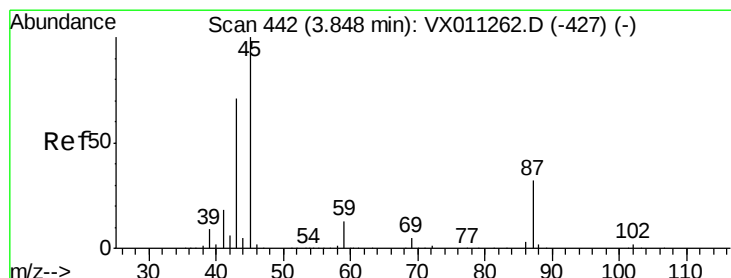
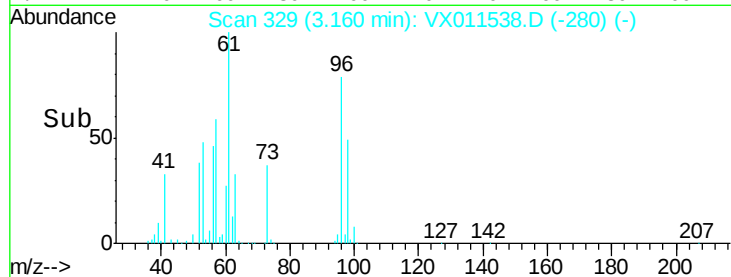
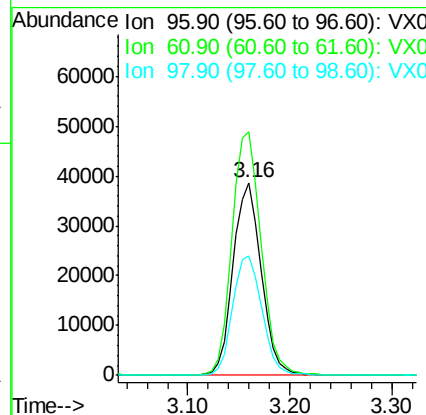
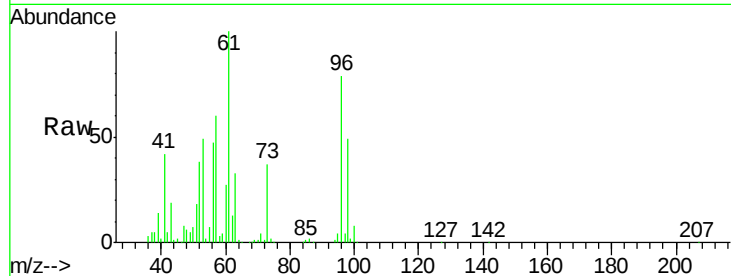
ClientSampleId :

Z3-0668MSD

Tot Ion:	96	Resp:	73836
Ion	Ratio	Lower	Upper
96	100		
61	126.5	92.8	139.2
98	61.9	51.2	76.8

Manual Integrations
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#22

Diisopropyl ether

Concen: 53.393 ug/l

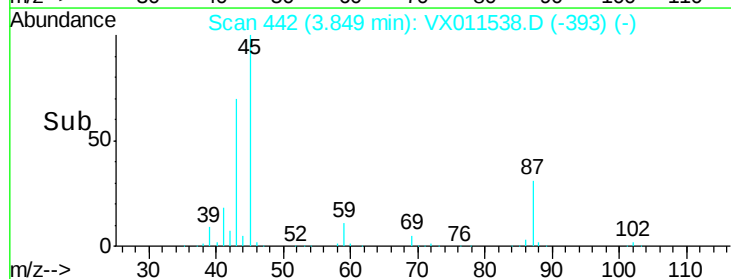
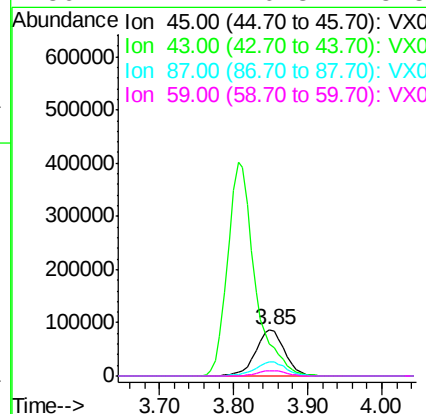
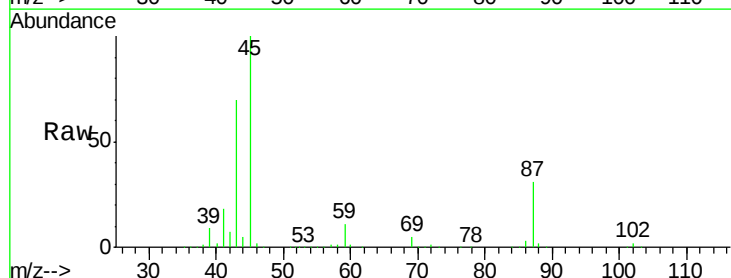
RT: 3.85 min Scan# 442

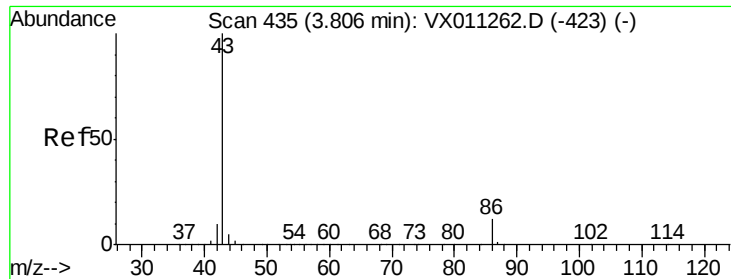
Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Tgt Ion:	45	Resp:	237772
Ion	Ratio	Lower	Upper
45	100		
43	70.0	56.8	85.2
87	31.3	25.8	38.6
59	11.2	10.3	15.5





#23

Vinyl Acetate

Concen: 279.037 ug/l

RT: 3.81 min Scan# 435

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z3-0668MSD

Tot Ion: 43 Resp: 1030645

Ion Ratio Lower Upper

43 100

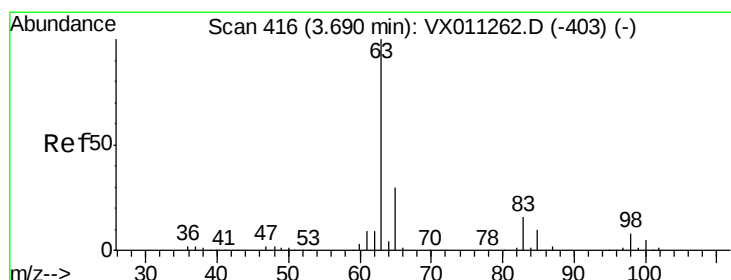
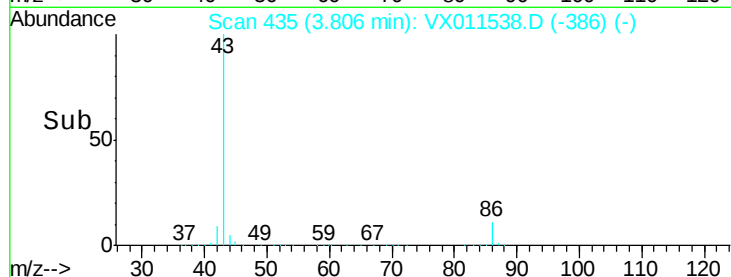
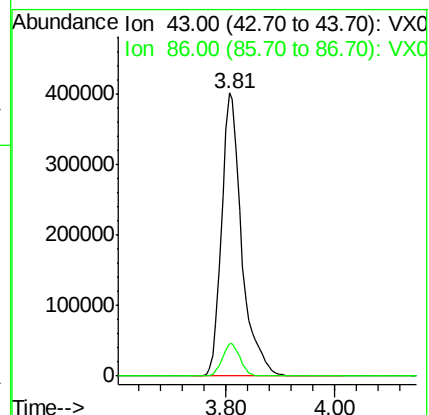
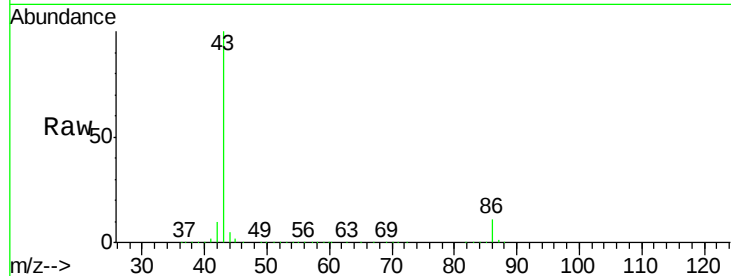
86 11.3 9.6 14.4

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 51.277 ug/l

RT: 3.69 min Scan# 416

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

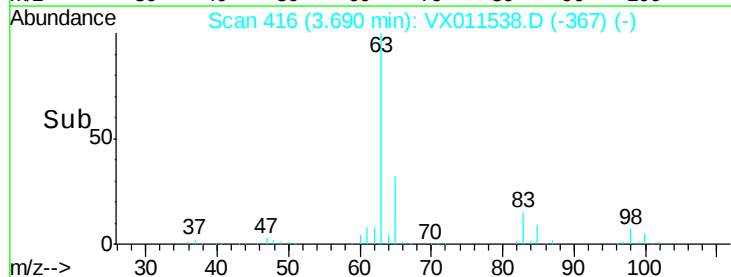
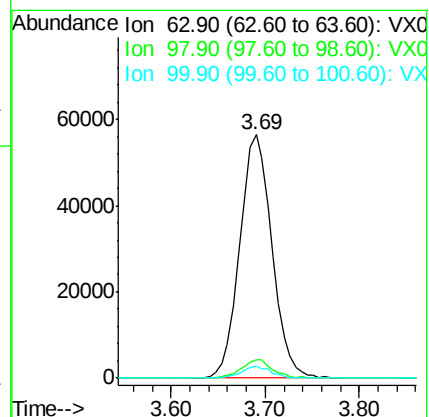
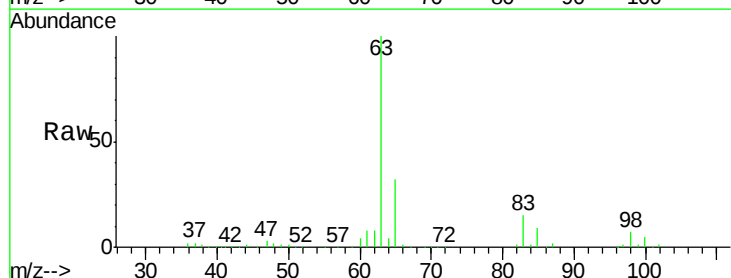
Tgt Ion: 63 Resp: 134650

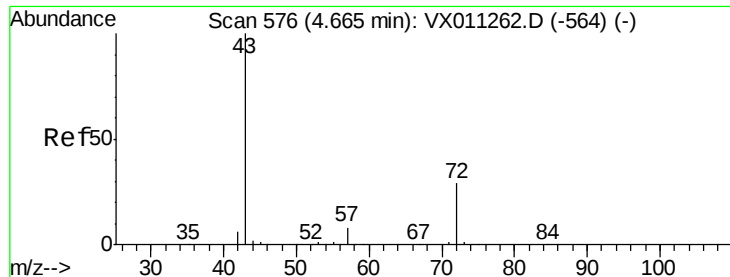
Ion Ratio Lower Upper

63 100

98 7.4 3.9 11.5

100 4.7 2.7 8.1





#25

2-Butanone

Concen: 262.211 ug/l

RT: 4.67 min Scan# 576

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z3-0668MSD

Tot Ion: 43 Resp: 298670

Ion Ratio Lower Upper

43 100

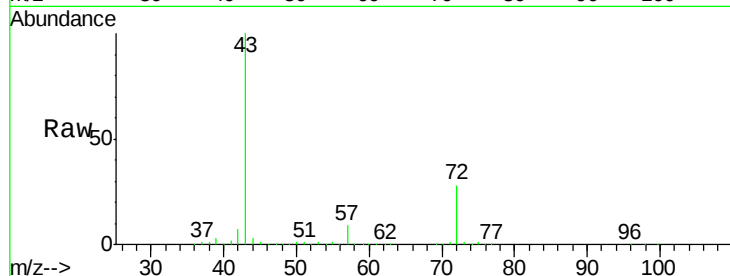
72 28.0 23.2 34.8

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

120000

100000

80000

60000

40000

20000

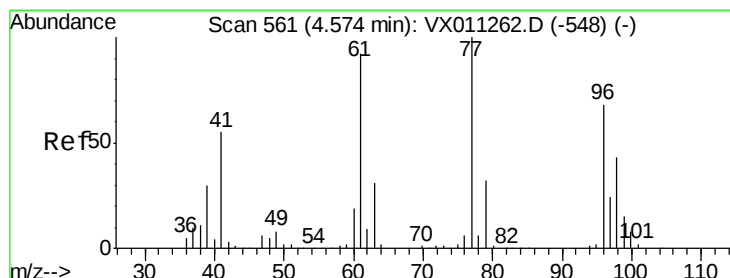
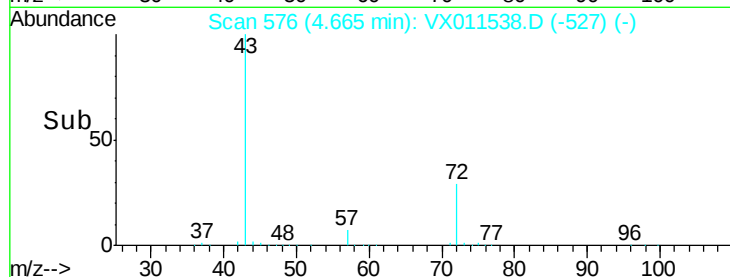
0

4.60

4.70

4.80

Time-->



#26

2,2-Dichloropropane

Concen: 49.362 ug/l

RT: 4.58 min Scan# 562

Delta R.T. 0.01 min

Lab File: VX011538.D

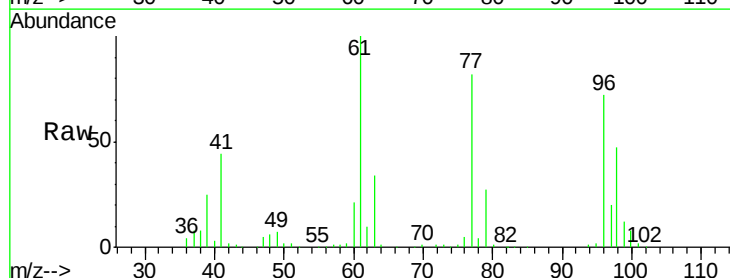
Acq: 13 Aug 2019 16:04

Tgt Ion: 77 Resp: 100761

Ion Ratio Lower Upper

77 100

97 24.0 12.8 38.4



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

30000

20000

10000

0

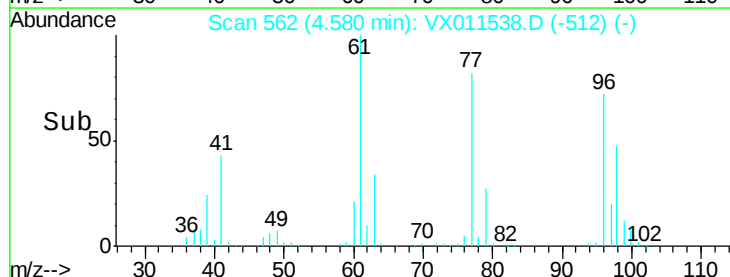
4.40

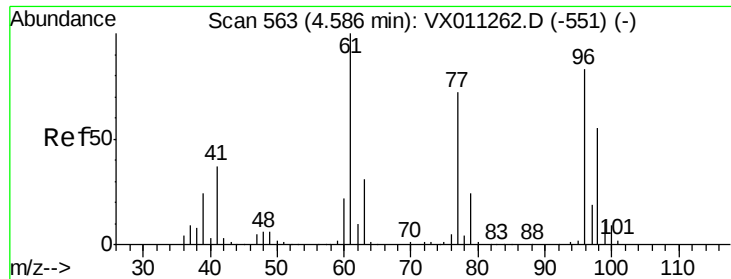
4.50

4.60

4.70

Time-->





#27

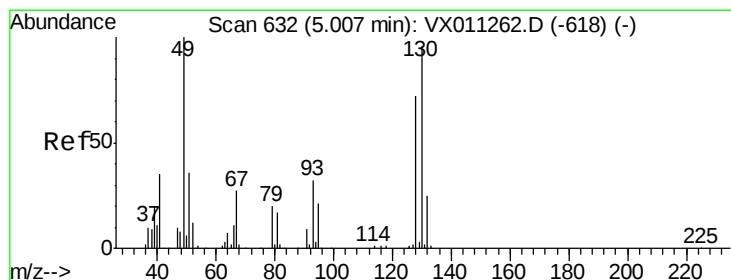
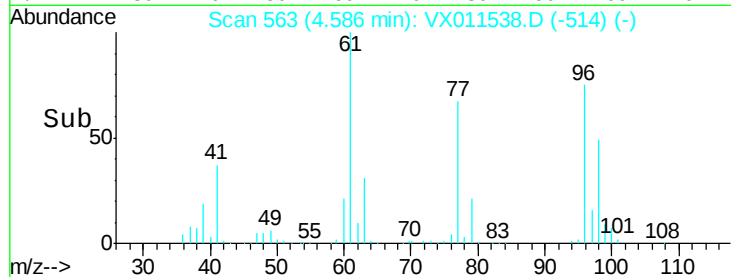
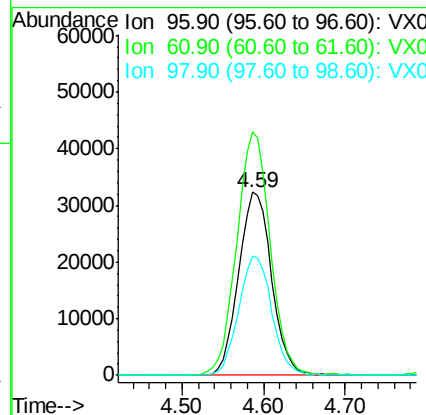
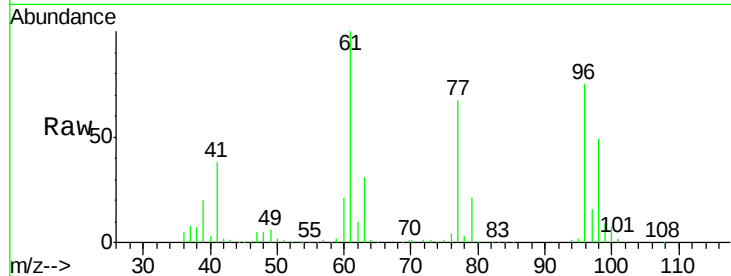
cis-1,2-Dichloroethene
Concen: 48.936 ug/l
RT: 4.59 min Scan# 563
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampleId :
Z3-0668MSD

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	134.7	0.0	260.2	
98	65.2	0.0	133.2	

Manual Integrations
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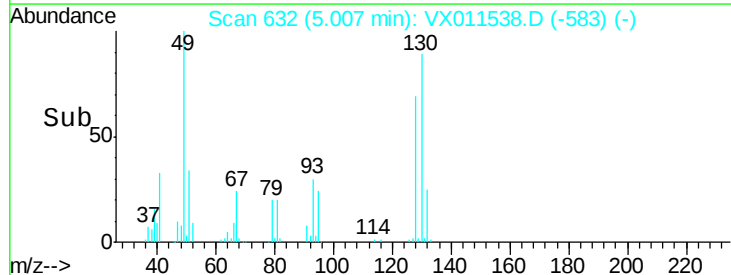
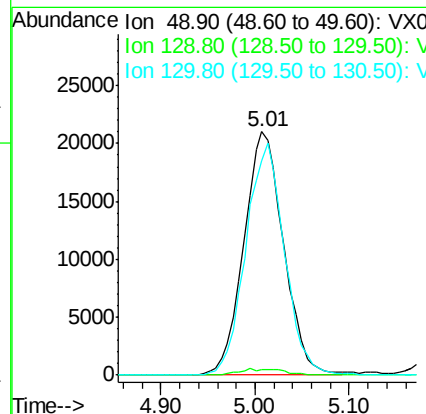
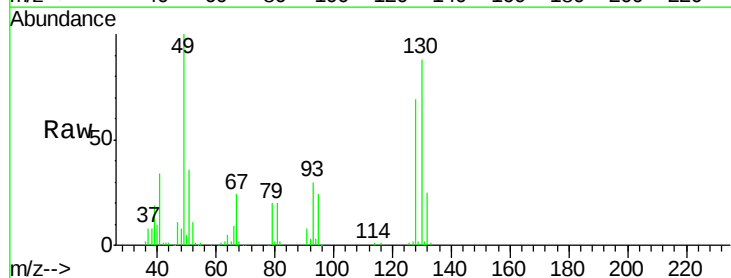
MMDadoda
8/14/2019 11:32:05 AM

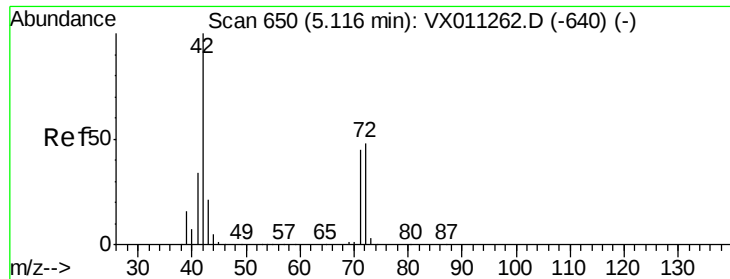


#28

Bromochloromethane
Concen: 51.810 ug/l
RT: 5.01 min Scan# 632
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.7	0.0	5.8	
130	92.7	77.9	116.9	





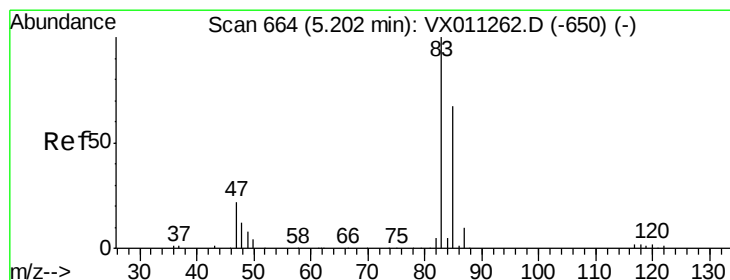
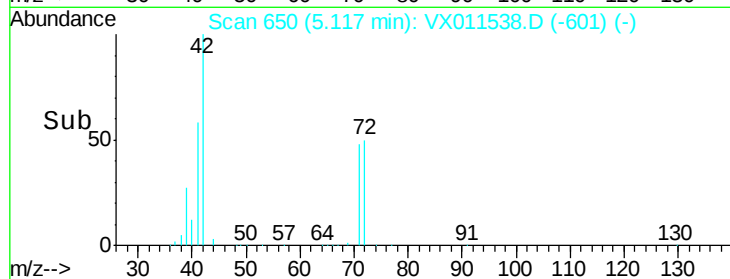
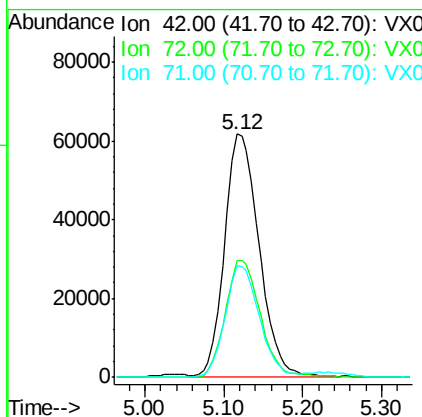
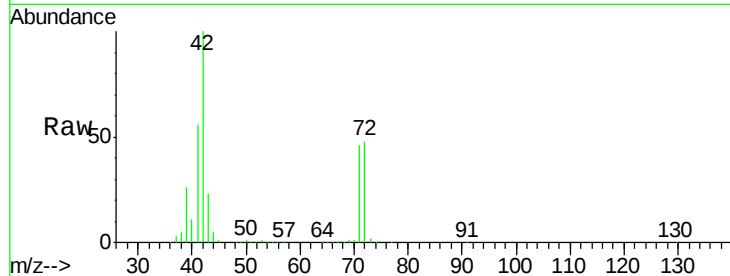
#29
Tetrahydrofuran
Concen: 267.301 ug/l
RT: 5.12 min Scan# 650
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampled :
Z3-0668MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	49.6	39.9	59.9
71	46.0	36.9	55.3

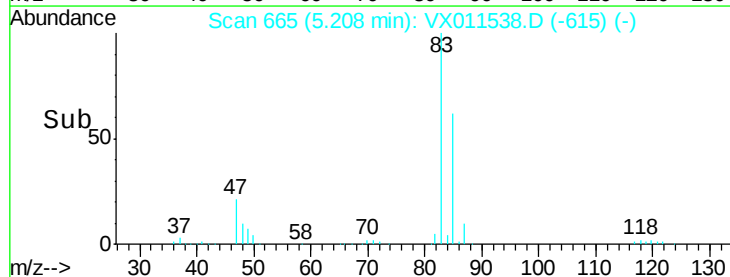
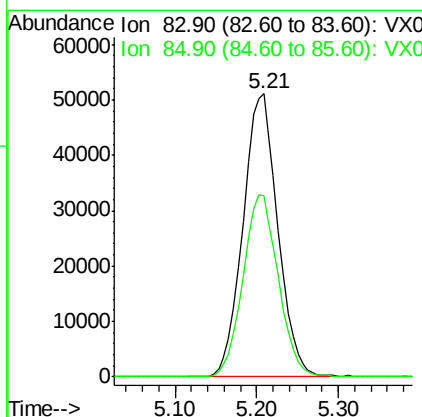
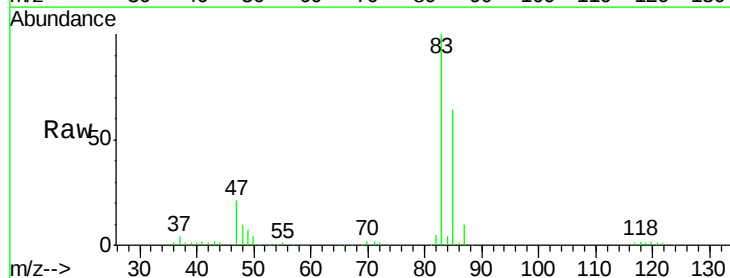
Manual Integrations
APPROVED

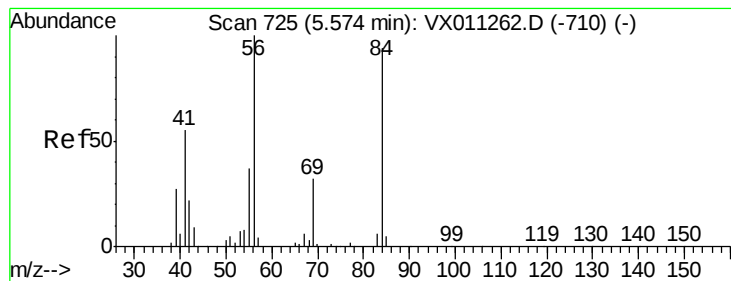
MMDadoda
8/14/2019 11:32:05 AM



#30
Chloroform
Concen: 53.234 ug/l
RT: 5.21 min Scan# 665
Delta R.T. 0.01 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	53.4	80.0





#31

Cyclohexane

Concen: 122.827 ug/l

RT: 5.57 min Scan# 725

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

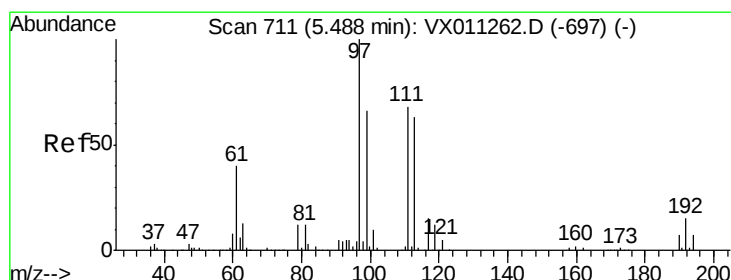
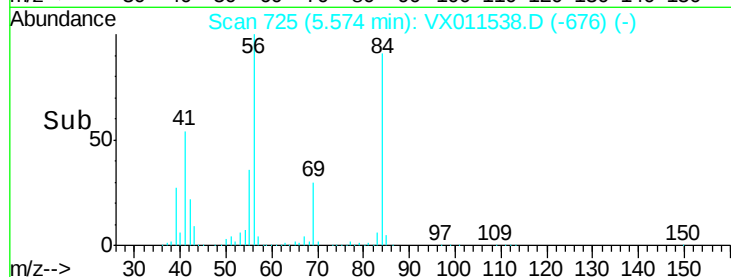
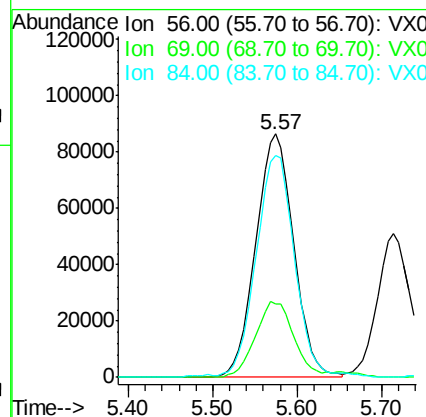
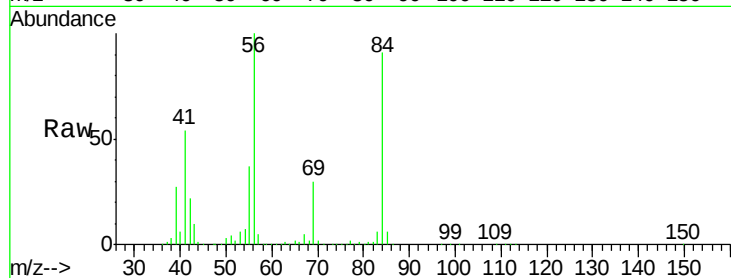
ClientSampleId :

Z3-0668MSD

Tot Ion:	56	Resp:	266096
Ion Ratio	Lower	Upper	
56	100		
69	30.1	25.5	38.3
84	90.5	75.0	112.4

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 53.488 ug/l

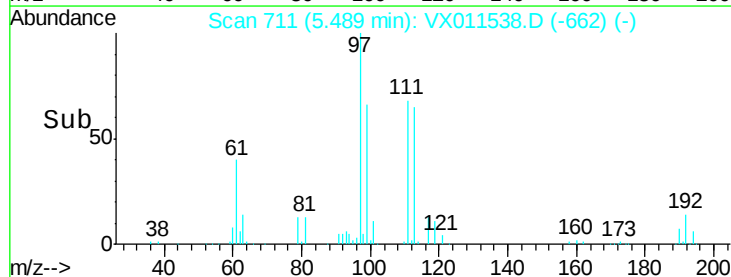
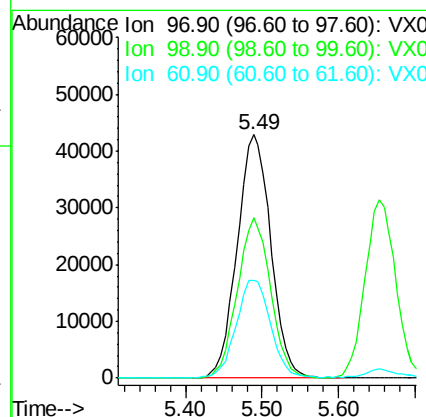
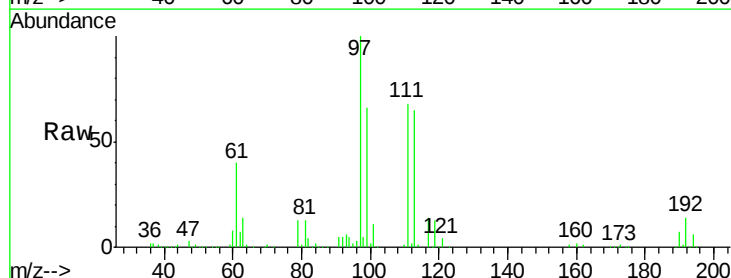
RT: 5.49 min Scan# 711

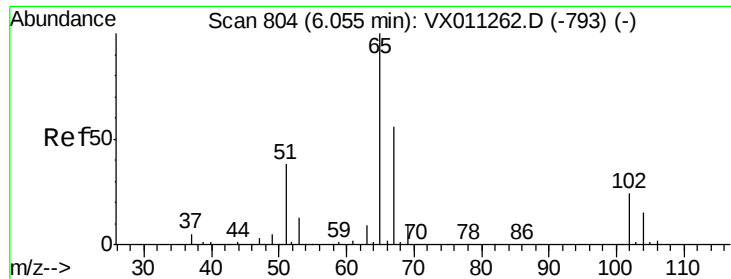
Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Tgt Ion:	97	Resp:	130772
Ion Ratio	Lower	Upper	
97	100		
99	65.0	51.6	77.4
61	41.4	32.3	48.5





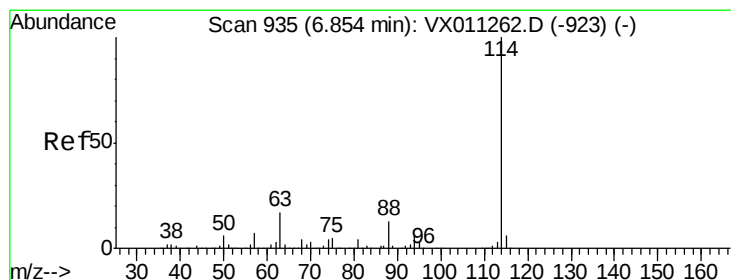
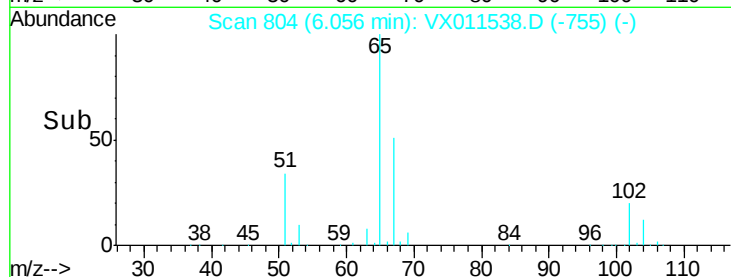
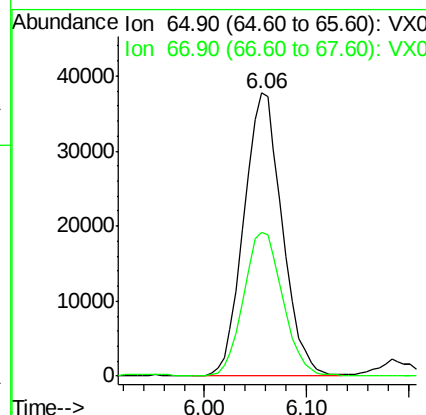
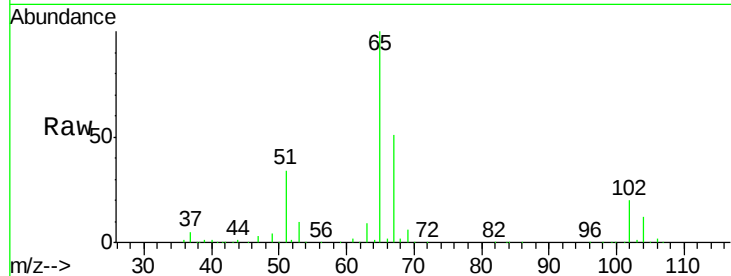
#33
 1,2-Dichloroethane-d4
 Concen: 58.702 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0668MSD

Tot Ion	Ratio	Resp	Lower	Upper
65	100	98753		
67	51.9	0.0	110.6	

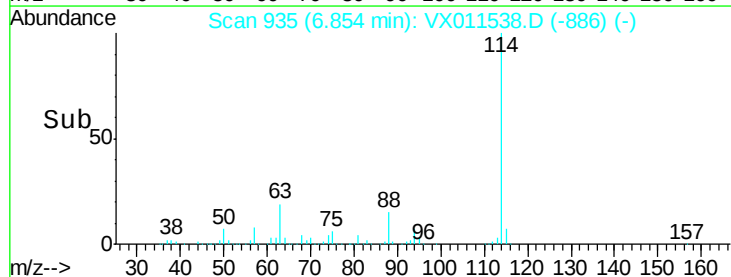
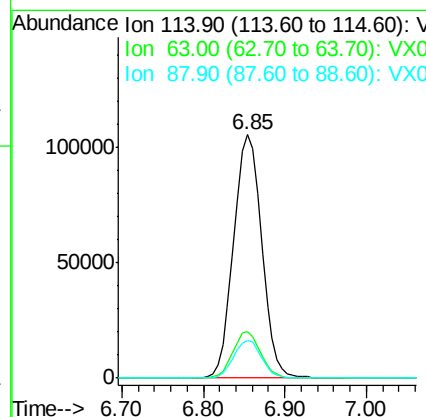
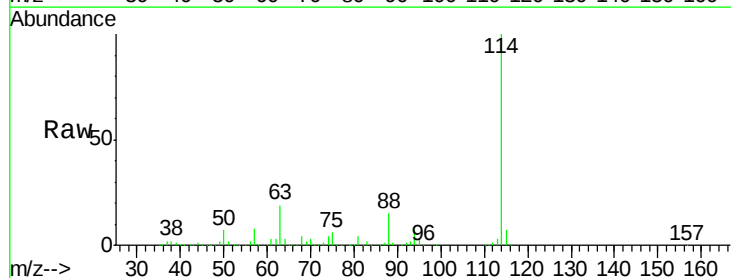
Manual Integrations
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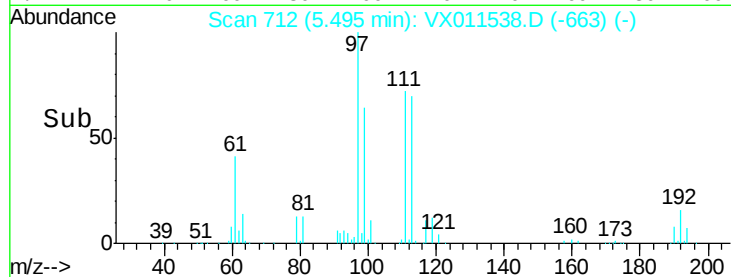
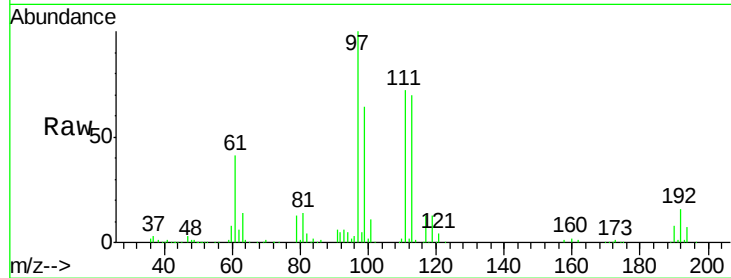
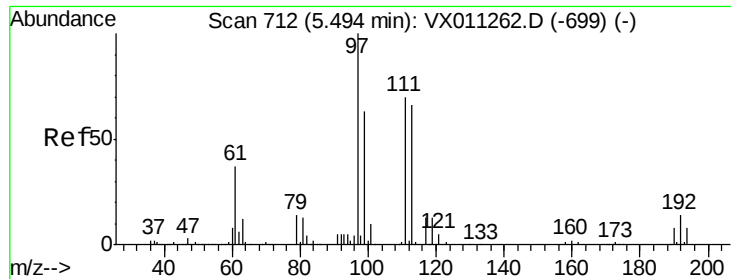
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 8/14/2019 11:32:05 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	251214		
63	19.2	0.0	34.0	
88	15.4	0.0	26.4	





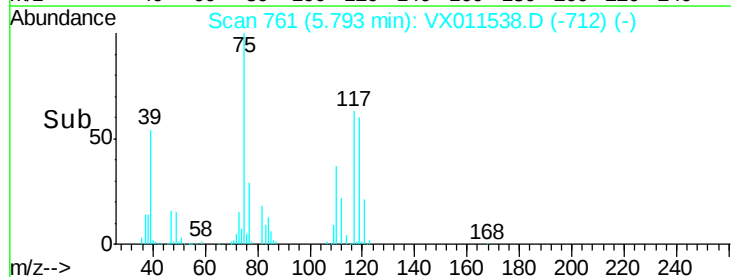
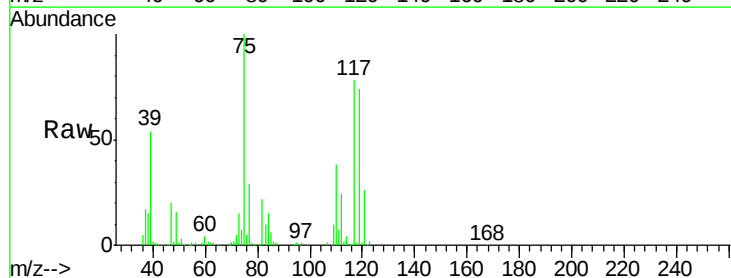
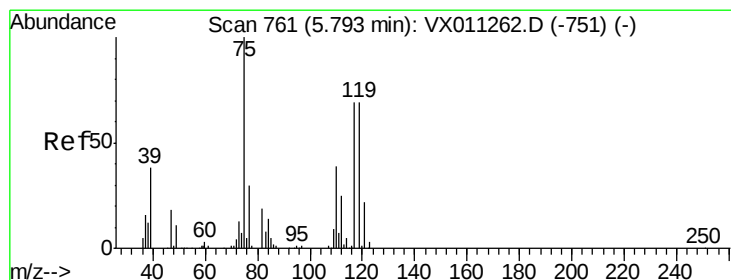
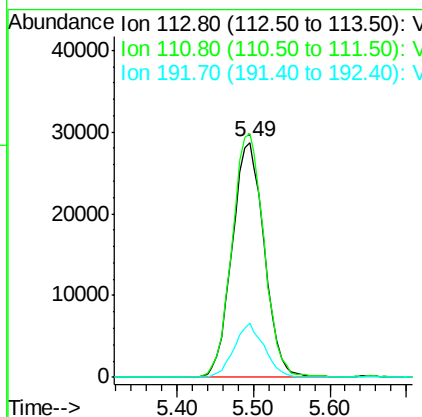
#35
Dibromofluoromethane
Concen: 51.010 ug/l
RT: 5.49 min Scan# 712
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tot Ion	Ratio	Resp	Lower	Upper
113	100	83663		
111	103.2	81.9	122.9	
192	21.6	17.8	26.8	

Instrument :
MSVOA_X
ClientSampleId :
Z3-0668MSD

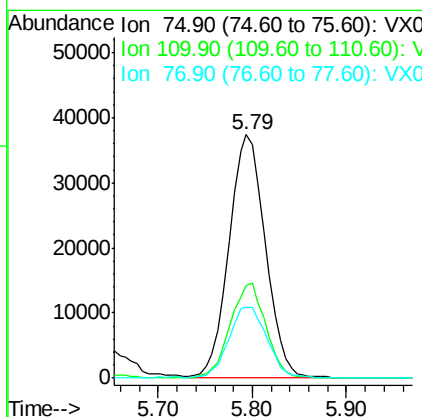
Manual Integrations
APPROVED

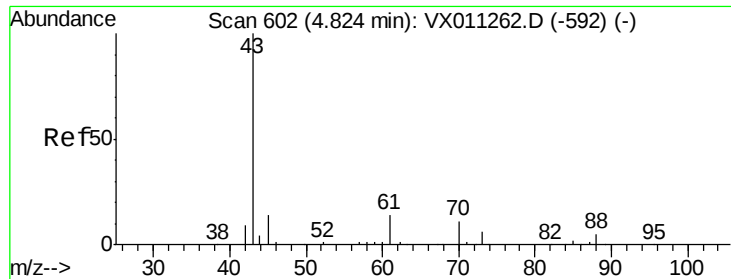
MMDadoda
8/14/2019 11:32:05 AM



#36
1,1-Dichloropropene
Concen: 45.924 ug/l
RT: 5.79 min Scan# 761
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	100726		
110	38.1	20.0	59.9	
77	30.6	24.8	37.2	





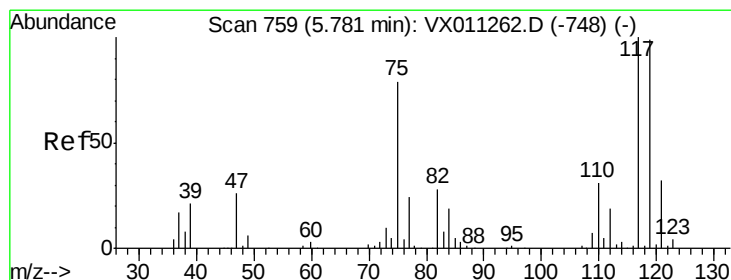
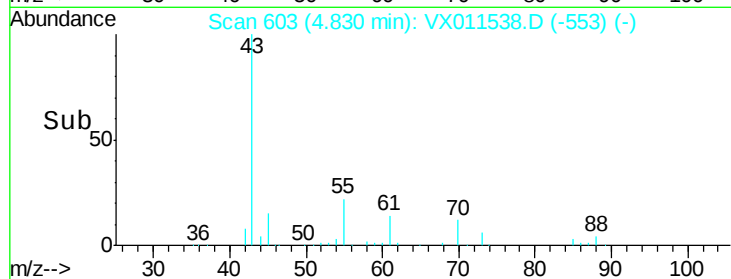
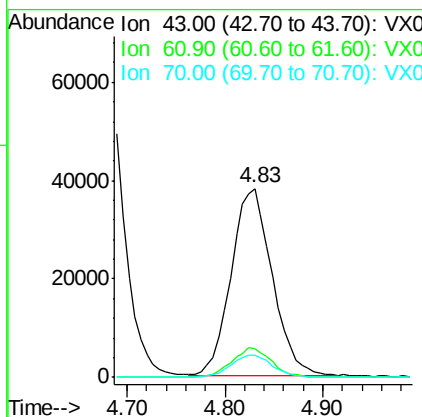
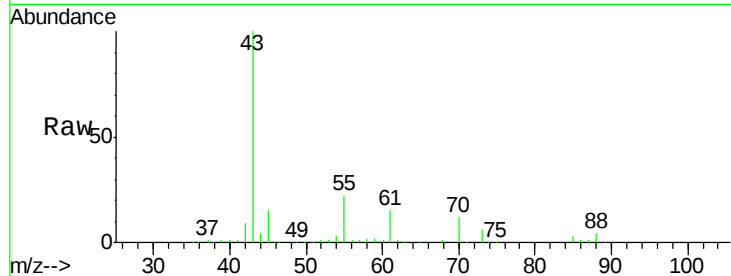
#37
Ethyl Acetate
Concen: 50.249 ug/l
RT: 4.83 min Scan# 603
Delta R.T. 0.01 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampleId :
Z3-0668MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.6	18.8
70	12.3	9.1	13.7

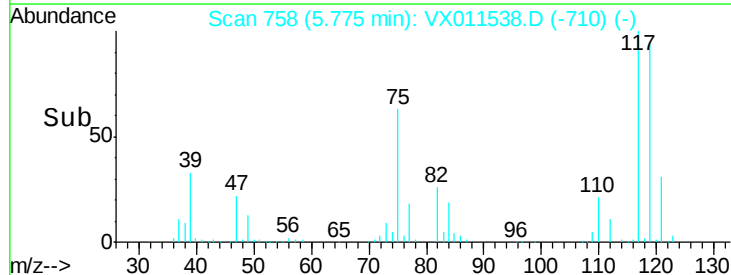
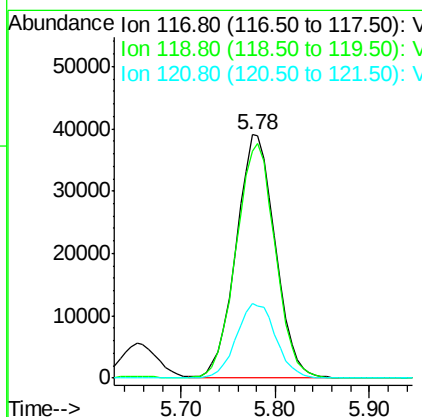
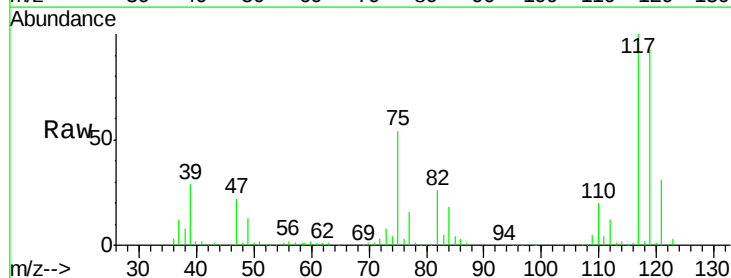
Manual Integrations
APPROVED

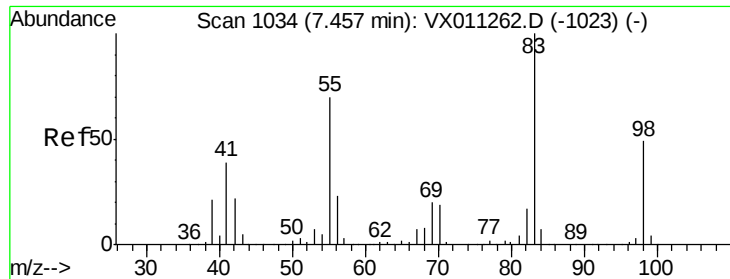
MMDadoda
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#38
Carbon Tetrachloride
Concen: 51.324 ug/l
RT: 5.78 min Scan# 758
Delta R.T. -0.01 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.4	79.0	118.4
121	30.7	25.9	38.9





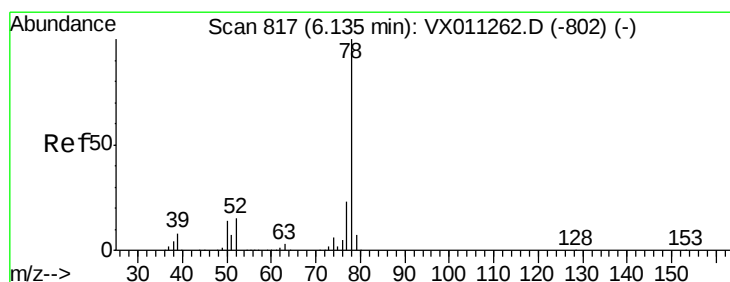
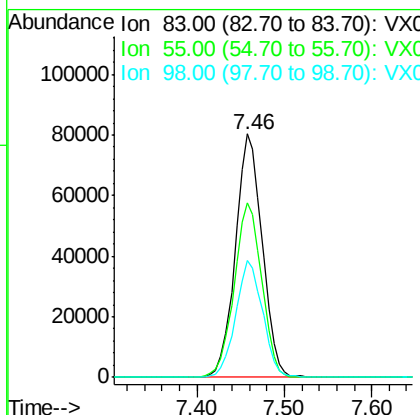
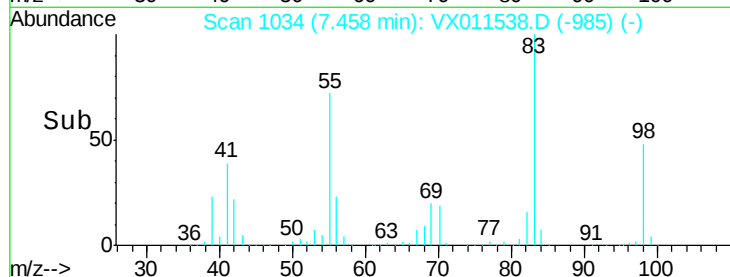
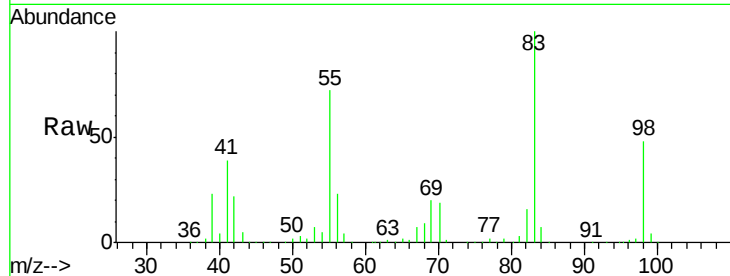
#39
Methylvlcyclohexane
Concen: 65.821 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampled :
Z3-0668MSD

Tot Ion	83	Resp	171124
Ion	Ratio	Lower	Upper
83	100		
55	71.4	56.1	84.1
98	47.8	39.0	58.4

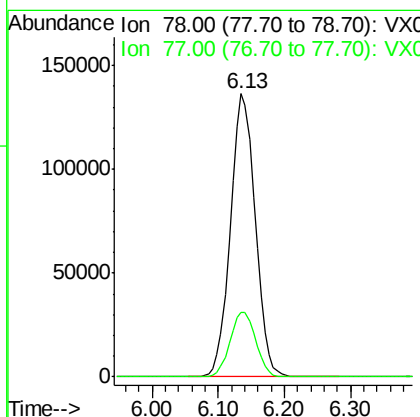
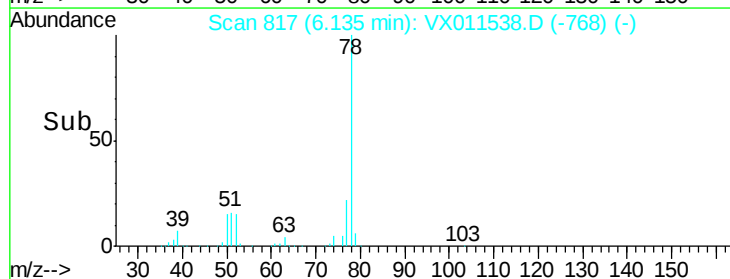
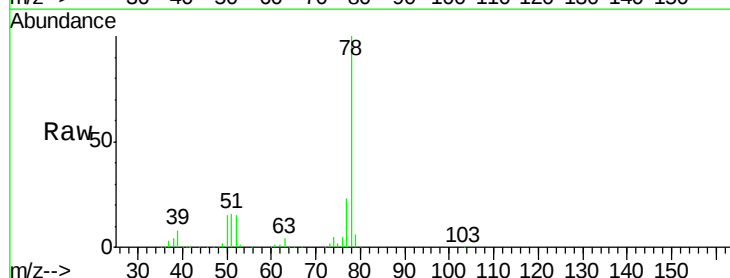
Manual Integrations
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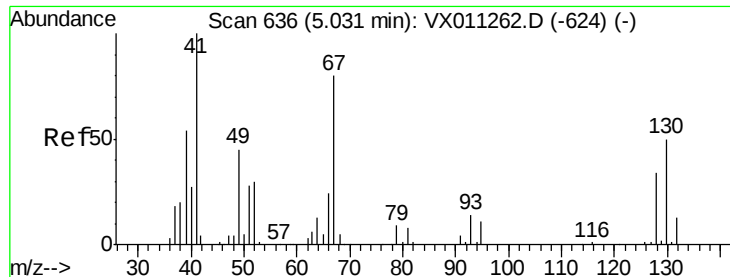
MMDadoda
8/14/2019 11:32:05 AM



#40
Benzene
Concen: 54.247 ug/l
RT: 6.13 min Scan# 817
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	78	Resp	355054
Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.2	27.2





#41

Methacrylonitrile

Concen: 52.666 ug/l

RT: 5.04 min Scan# 637

Delta R.T. 0.01 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampled :

Z3-0668MSD

Tot Ion: 41 Resp: 63279

Ion Ratio Lower Upper

41 100

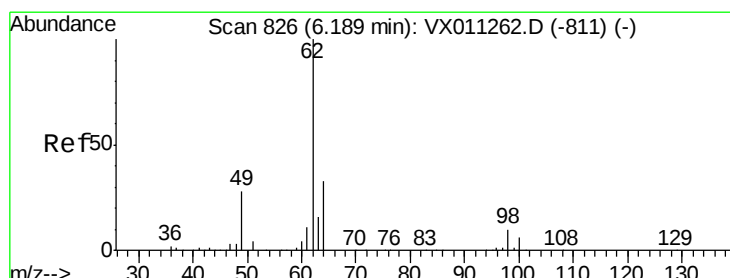
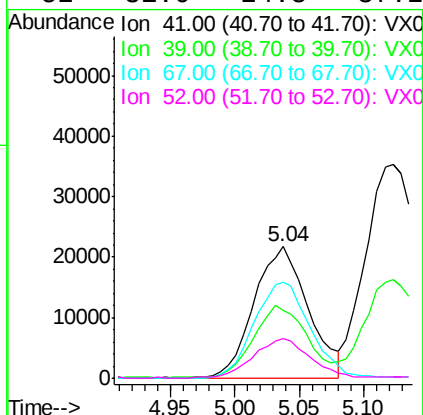
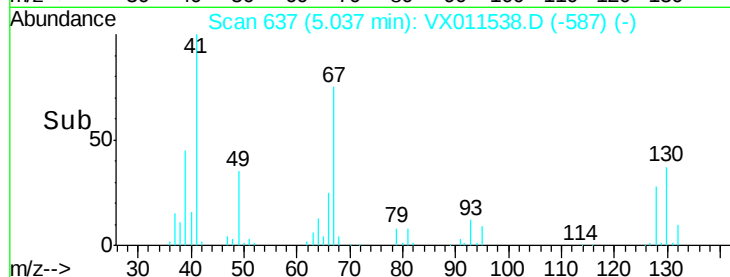
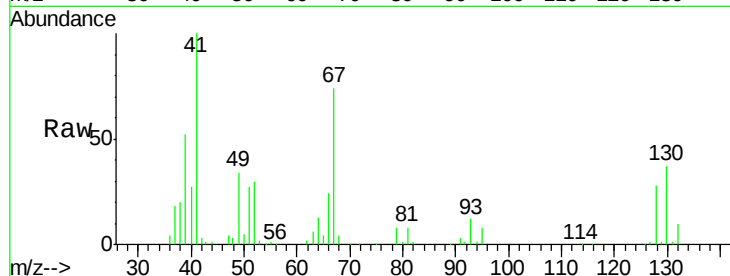
39 54.0 43.0 64.6

67 76.1 65.1 97.7

52 31.0 24.8 37.2

Manual Integrations
APPROVED

MMDadoda
8/14/2019 11:32:05 AM



#42

1,2-Dichloroethane

Concen: 54.540 ug/l

RT: 6.18 min Scan# 825

Delta R.T. -0.01 min

Lab File: VX011538.D

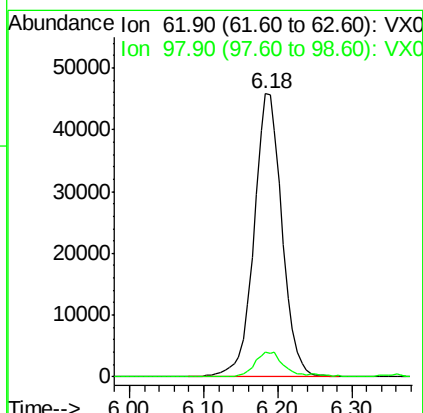
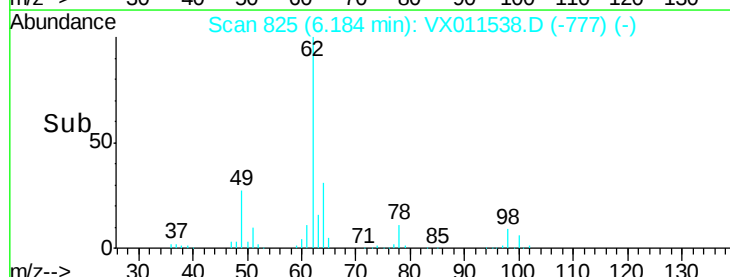
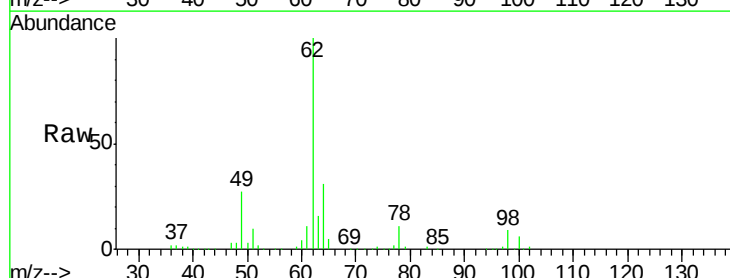
Acq: 13 Aug 2019 16:04

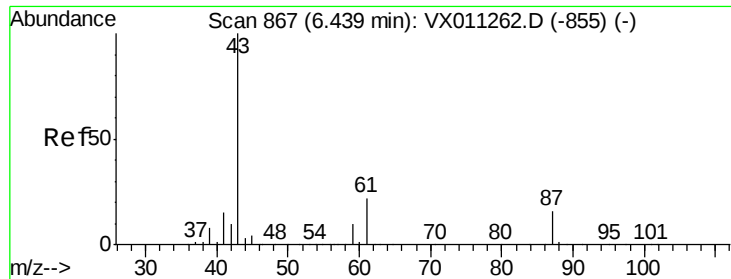
Tgt Ion: 62 Resp: 120708

Ion Ratio Lower Upper

62 100

98 9.0 0.0 20.6





#43

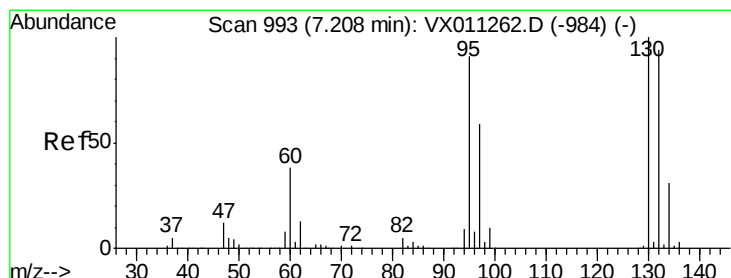
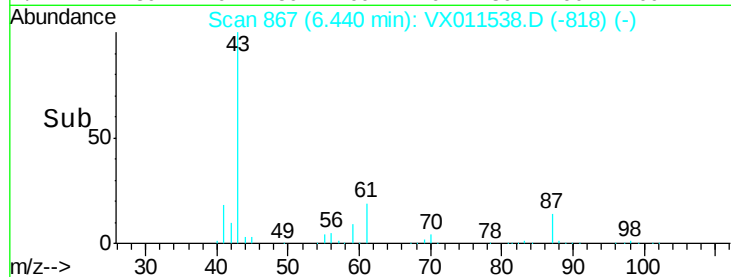
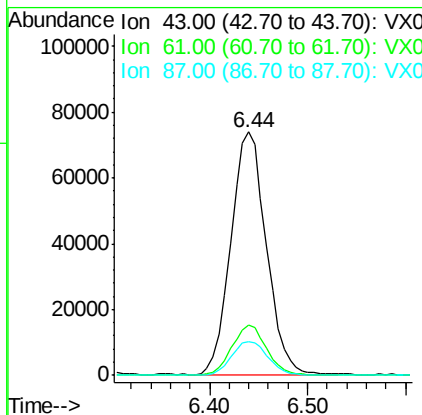
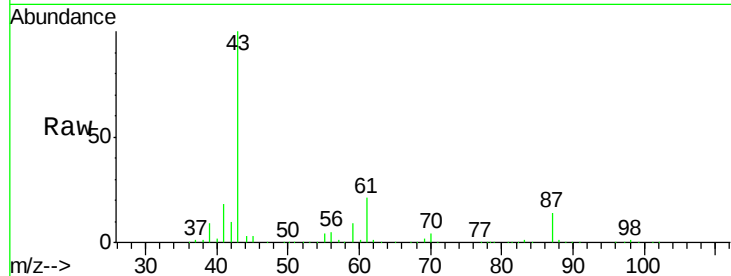
Isopropyl Acetate
 Concen: 52.507 ug/l
 RT: 6.44 min Scan# 867
 Delta R.T. 0.00 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0668MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.5	16.5	24.7
87	14.5	12.1	18.1

Manual Integrations
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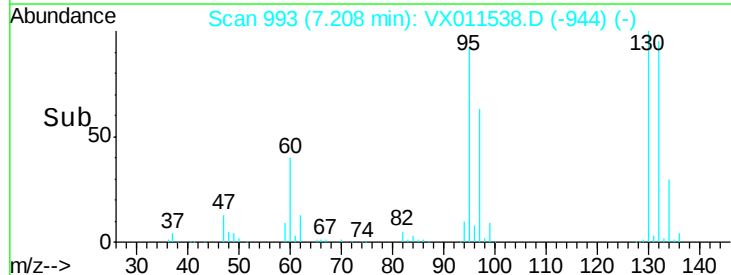
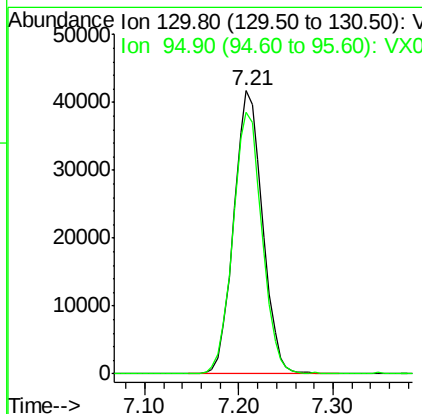
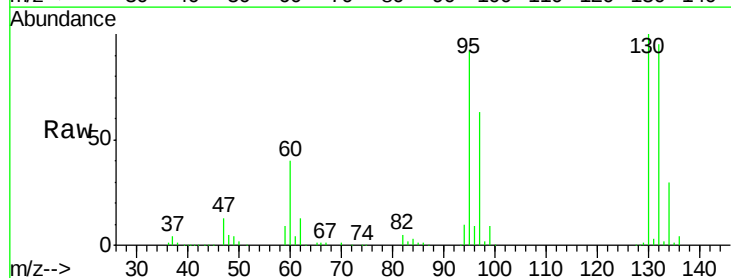
MMDadoda
 8/14/2019 11:32:05 AM

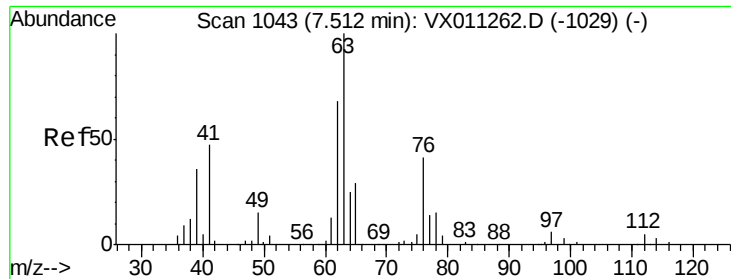


#44

Trichloroethene
 Concen: 44.543 ug/l
 RT: 7.21 min Scan# 993
 Delta R.T. 0.00 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.3	0.0	182.6





#45

1,2-Dichloropropane

Concen: 48.285 ug/l

RT: 7.51 min Scan# 1043

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z3-0668MSD

Tot Ion: 63 Resp: 81846

Ion Ratio Lower Upper

63 100

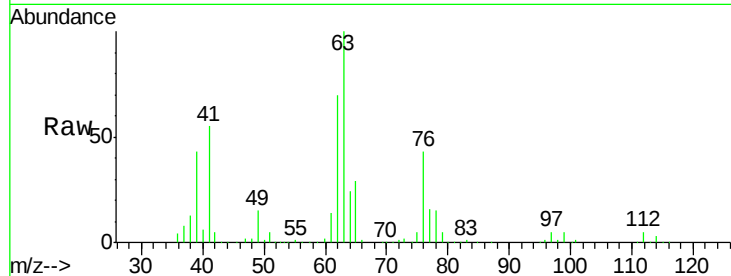
65 29.2 23.3 34.9

Manual Integrations

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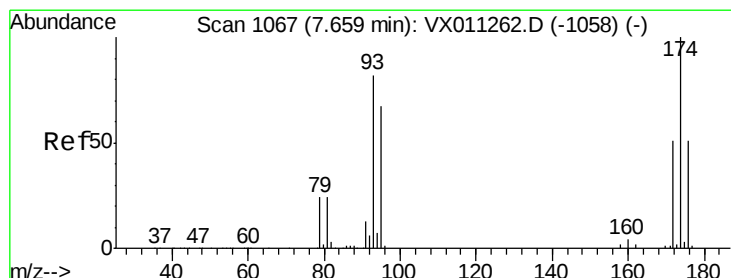
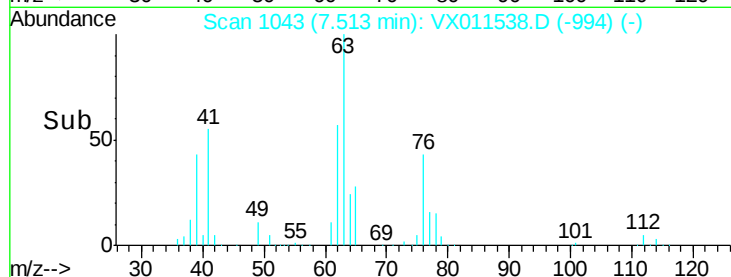
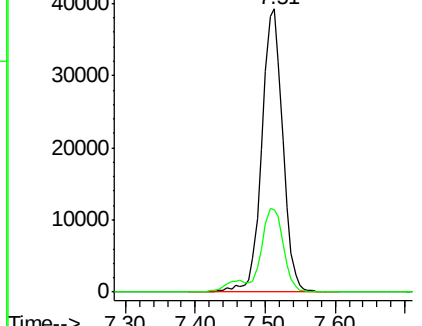
MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0



#46

Dibromomethane

Concen: 48.254 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

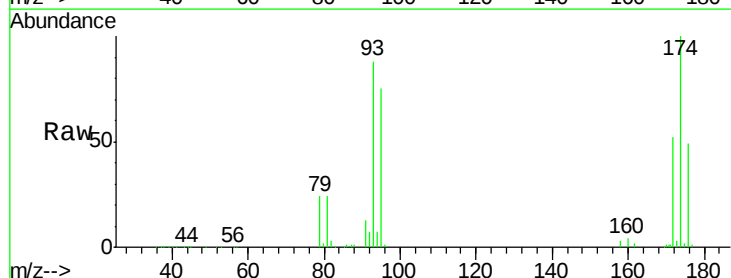
Tgt Ion: 93 Resp: 59711

Ion Ratio Lower Upper

93 100

95 85.1 66.4 99.6

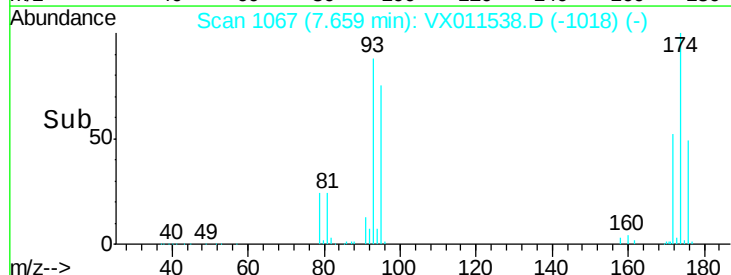
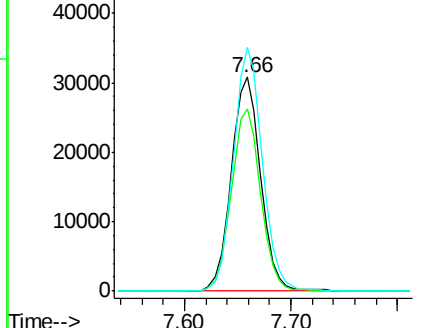
174 112.2 93.4 140.2

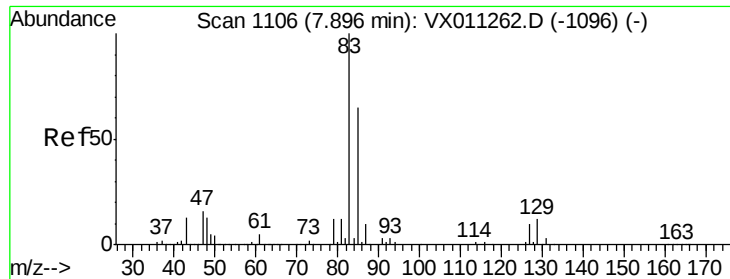


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 54.145 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

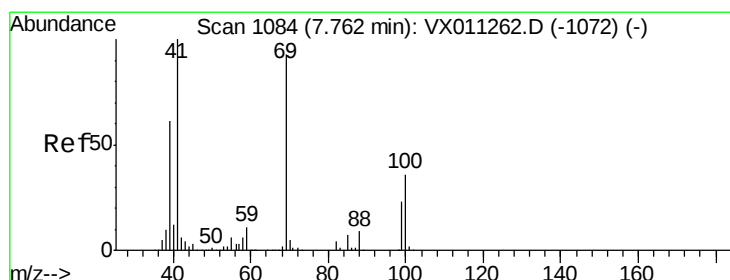
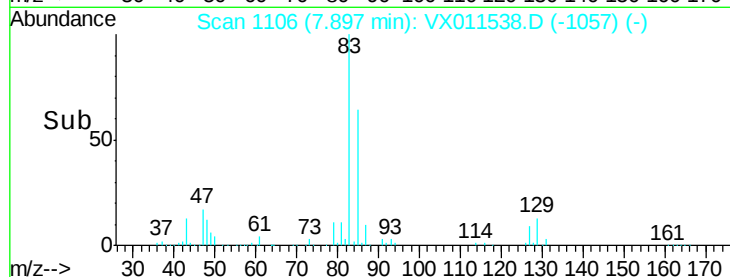
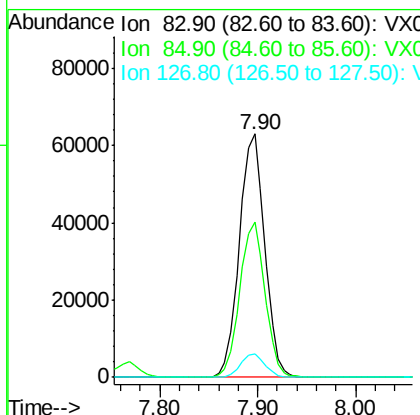
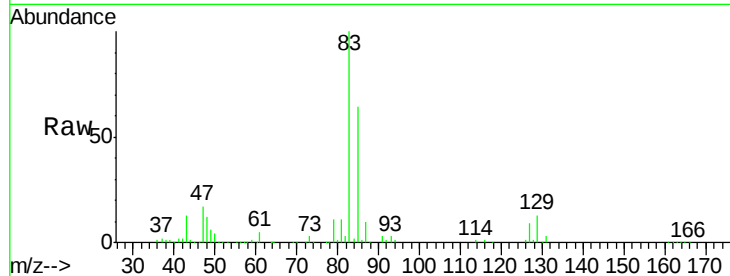
ClientSampleId :

Z3-0668MSD

Tot Ion:	83	Resp:	113436
Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.2	78.2
127	9.4	7.8	11.8

Manual Integrations
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8/14/2019 11:32:05 AM



#48

Methyl methacrylate

Concen: 57.243 ug/l

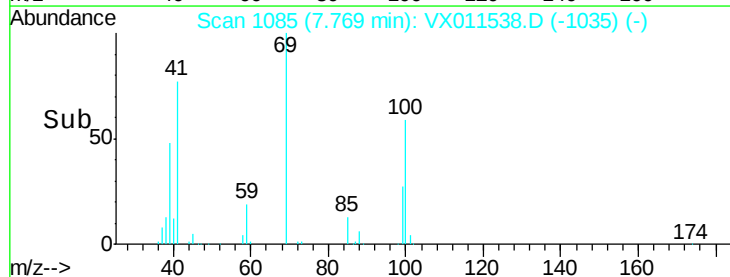
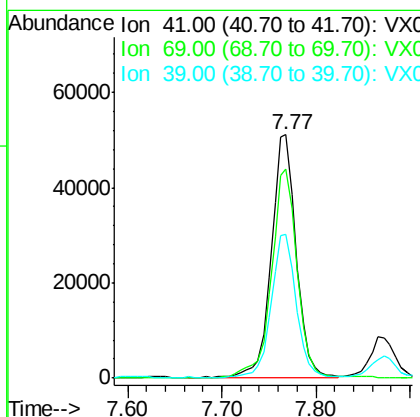
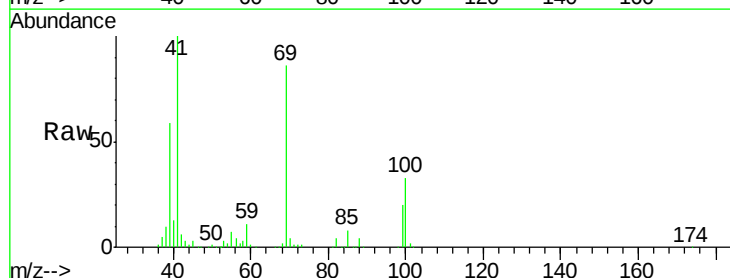
RT: 7.77 min Scan# 1085

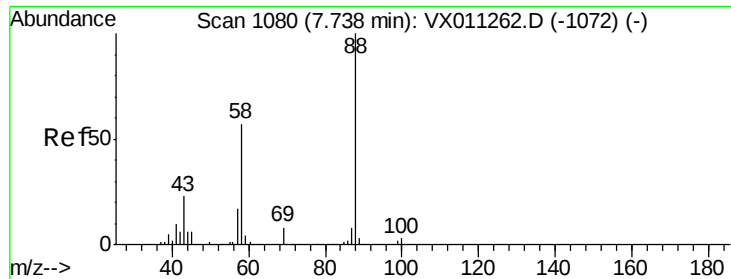
Delta R.T. 0.01 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Tgt Ion:	41	Resp:	94757
Ion	Ratio	Lower	Upper
41	100		
69	89.6	74.5	111.7
39	59.3	48.6	72.8





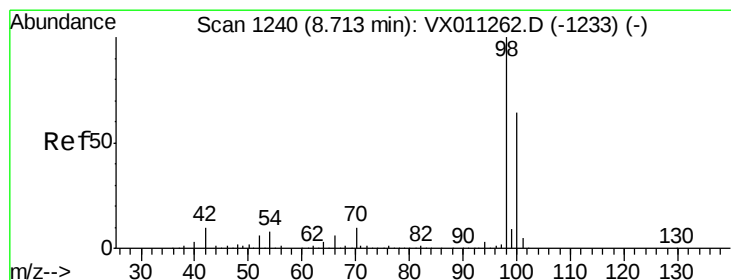
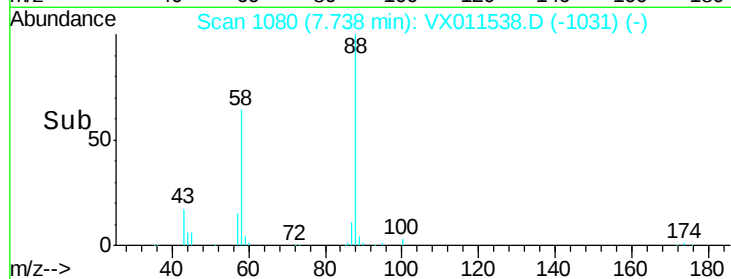
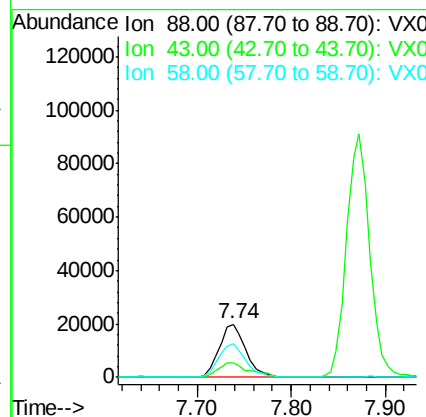
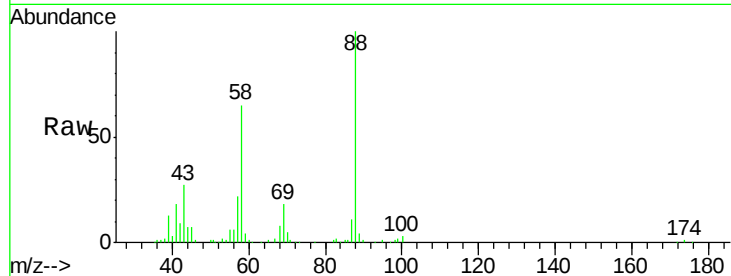
#49
1,4-Dioxane
Concen: 811.609 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampleId :
Z3-0668MSD

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.4	22.2	33.2
58	63.4	47.8	71.8

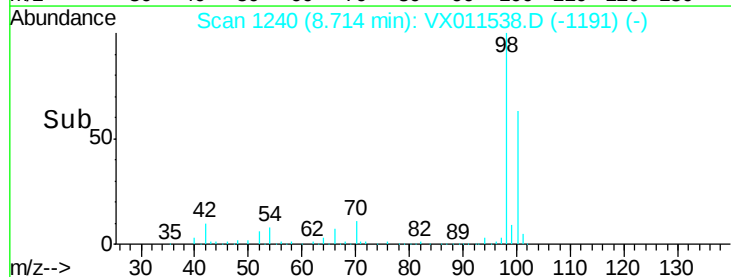
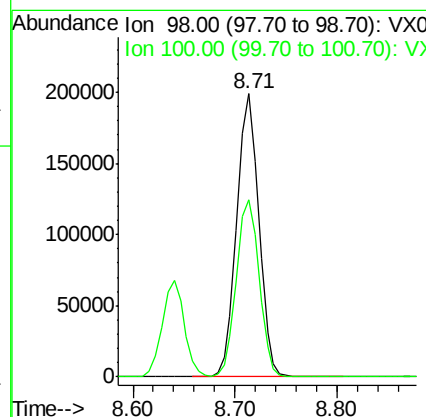
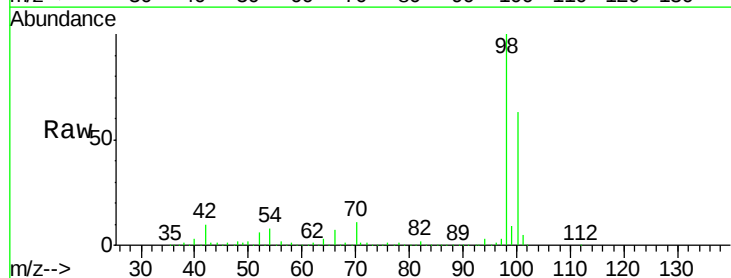
Manual Integrations
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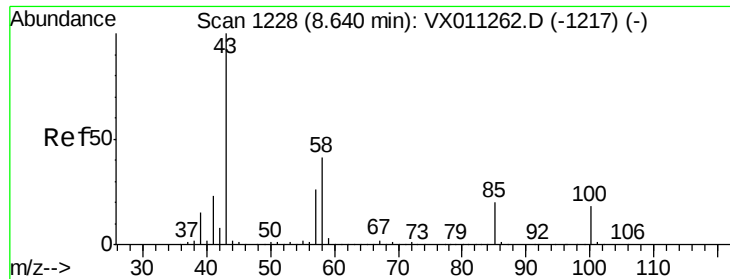
MMDadoda
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#50
Toluene-d8
Concen: 47.934 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 267.879 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z3-0668MSD

Tot Ion: 43 Resp: 608087

Ion Ratio Lower Upper

43 100

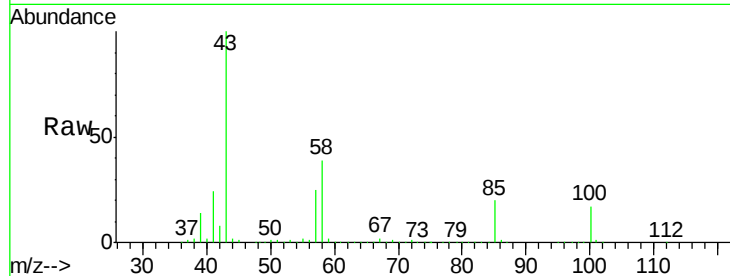
58 39.6 32.3 48.5

Manual Integrations

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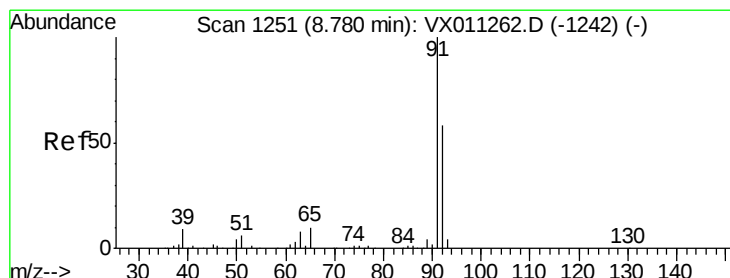
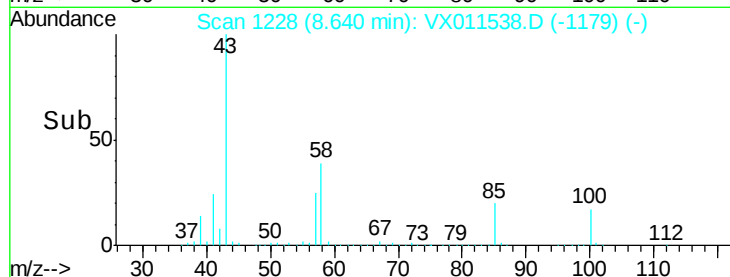
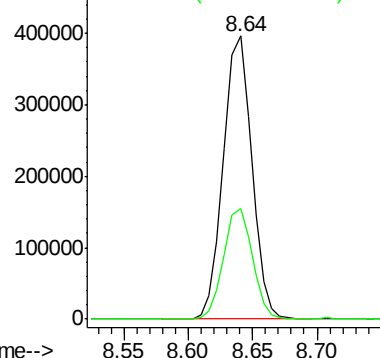
MMDadoda

8/14/2019 11:32:05 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 47.396 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VX011538.D

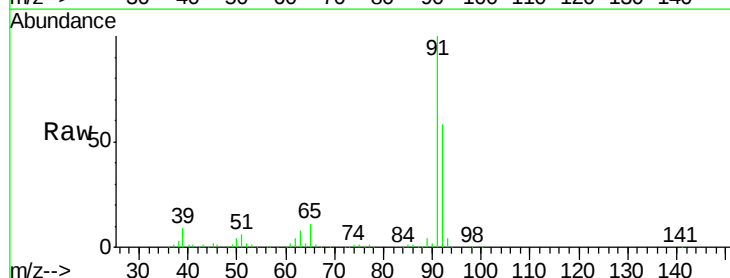
Acq: 13 Aug 2019 16:04

Tgt Ion: 92 Resp: 205103

Ion Ratio Lower Upper

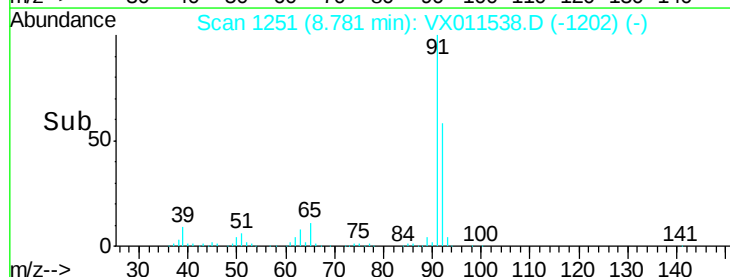
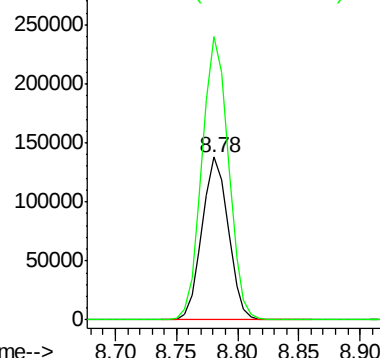
92 100

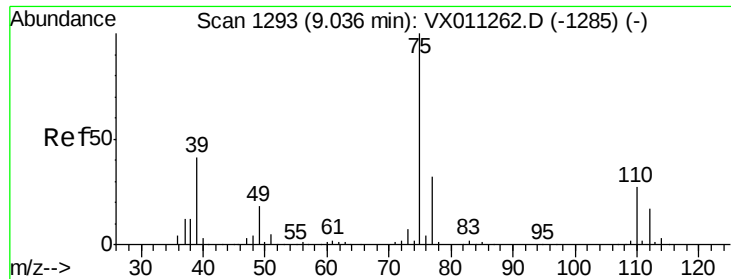
91 175.7 139.4 209.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





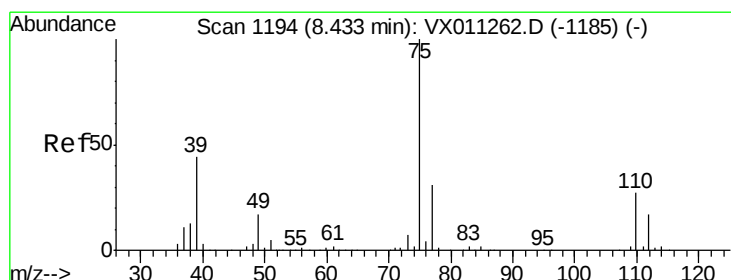
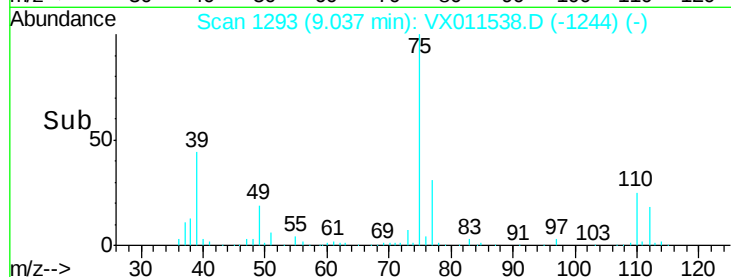
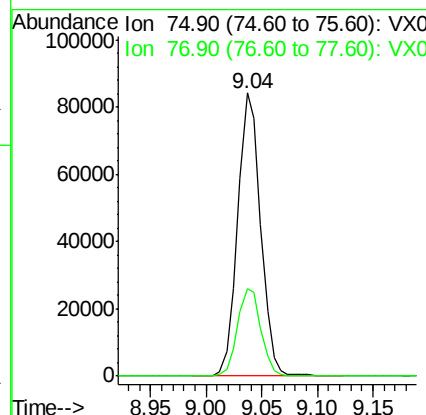
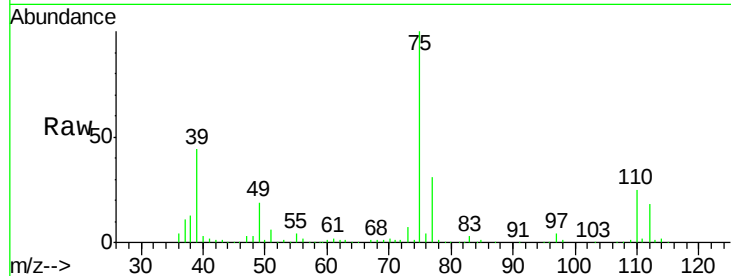
#53
 t-1,3-Dichloropropene
 Concen: 49.298 ug/l
 RT: 9.04 min Scan# 1293
 Delta R.T. 0.00 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0668MSD

Tot Ion	Ratio	Resp	Lower	Upper
75	100	120178		
77	31.1	25.4	38.0	

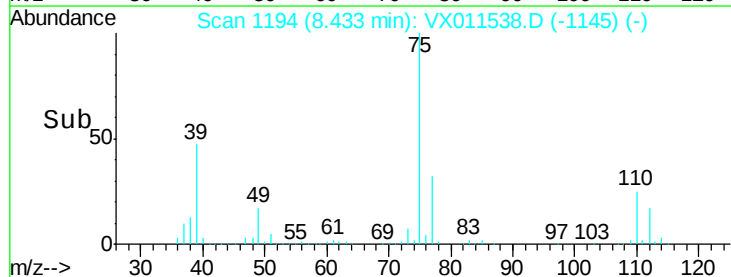
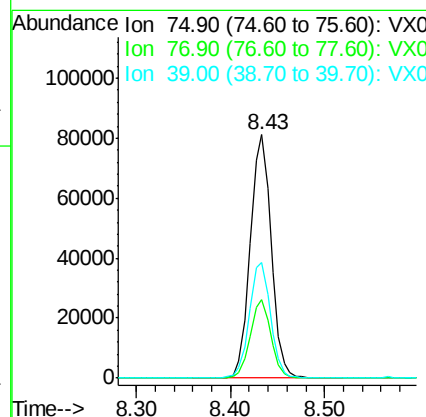
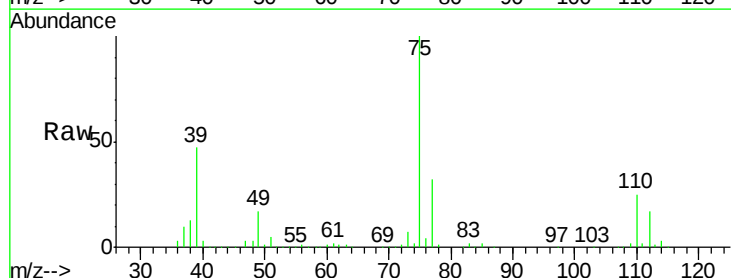
Manual Integrations
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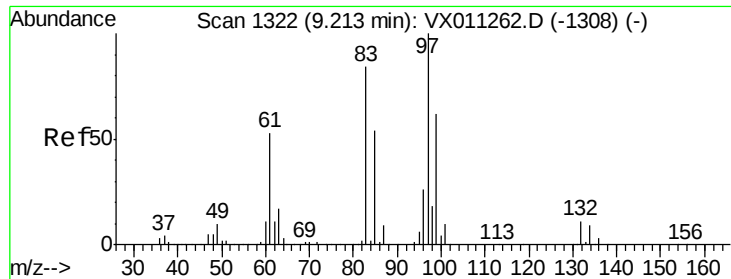
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#54
 cis-1,3-Dichloropropene
 Concen: 51.806 ug/l
 RT: 8.43 min Scan# 1194
 Delta R.T. 0.00 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	126784		
77	32.0	25.0	37.6	
39	47.1	35.3	52.9	





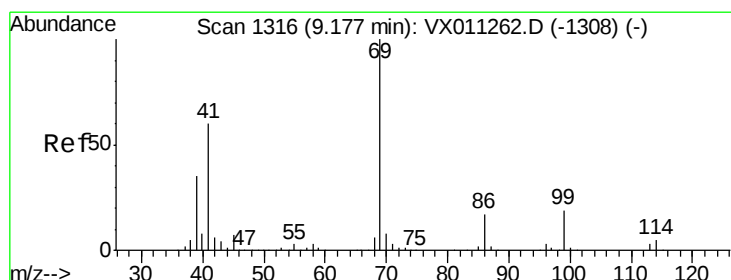
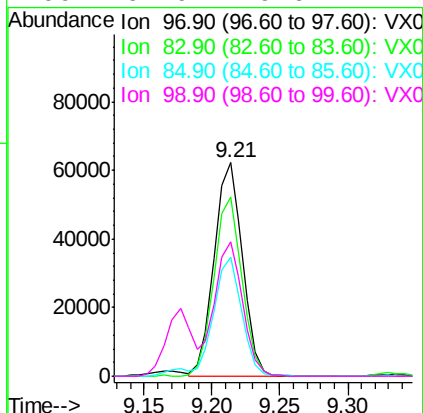
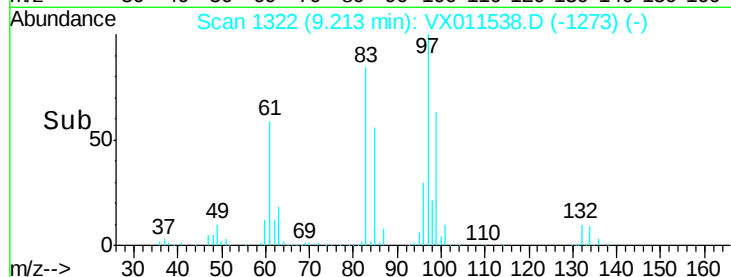
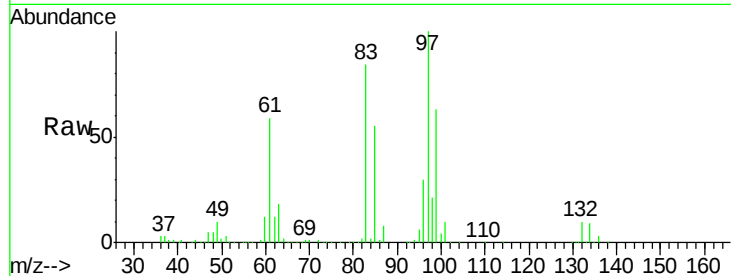
#55
 1,1,2-Trichloroethane
 Concen: 50.579 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0668MSD

Tot Ion:	97	Resp:	89992
Ion	Ratio	Lower	Upper
97	100		
83	83.8	67.6	101.4
85	55.5	43.4	65.0
99	62.9	49.6	74.4

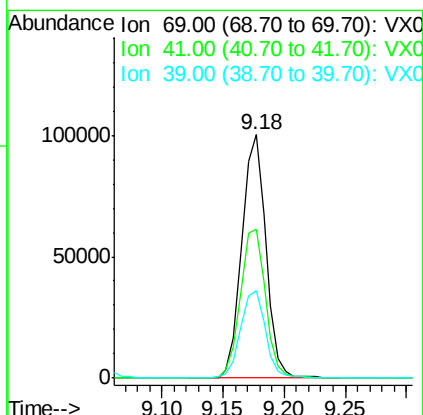
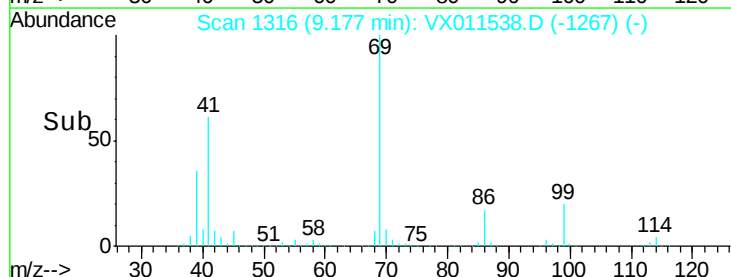
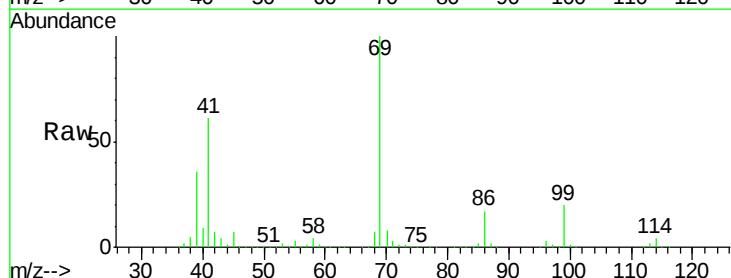
Manual Integrations
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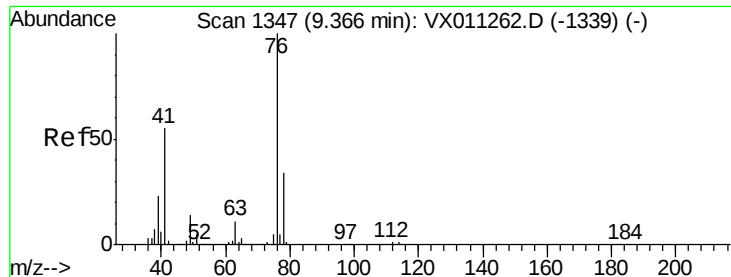
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 8/14/2019 11:32:05 AM



#56
 Ethyl methacrylate
 Concen: 53.847 ug/l
 RT: 9.18 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Tgt Ion:	69	Resp:	136531
Ion	Ratio	Lower	Upper
69	100		
41	63.7	48.6	73.0
39	36.7	29.4	44.2





#57

1,3-Dichloropropane

Concen: 50.320 ug/l

RT: 9.37 min Scan# 1347

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampled :

Z3-0668MSD

Tot Ion: 76 Resp: 141593

Ion Ratio Lower Upper

76 100

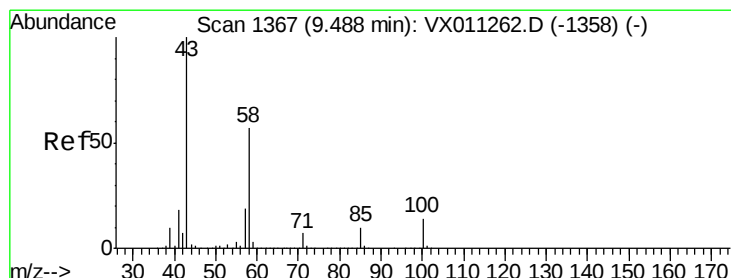
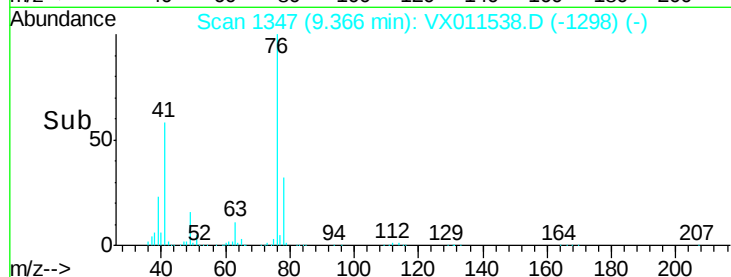
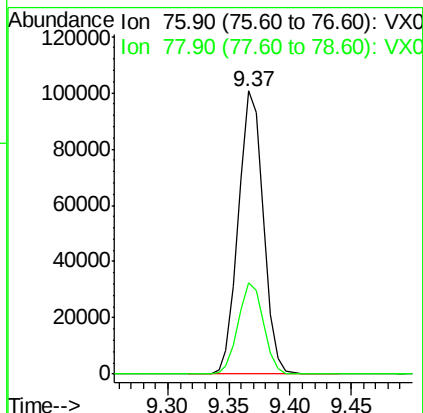
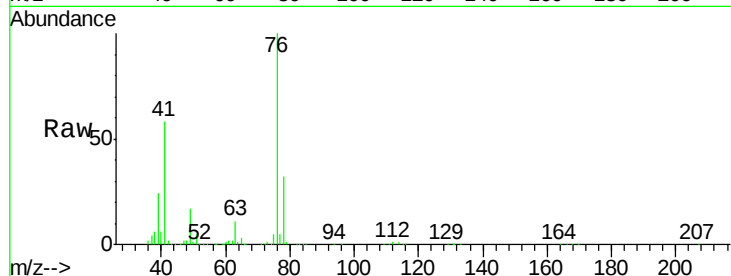
78 32.8 26.6 40.0

Manual Integrations

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#59

2-Hexanone

Concen: 262.307 ug/l

RT: 9.49 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VX011538.D

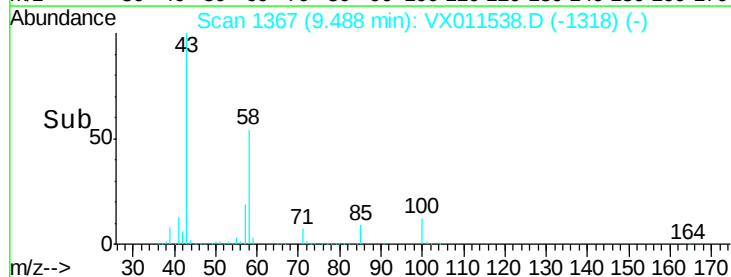
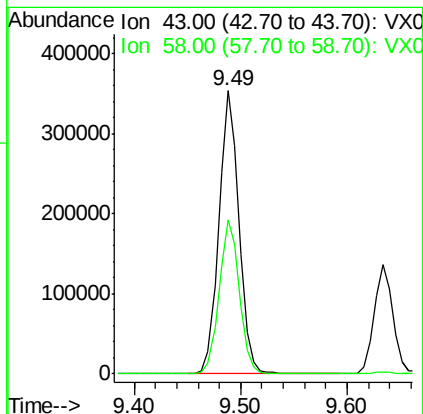
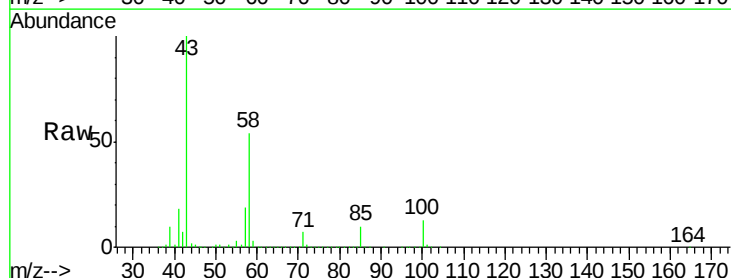
Acq: 13 Aug 2019 16:04

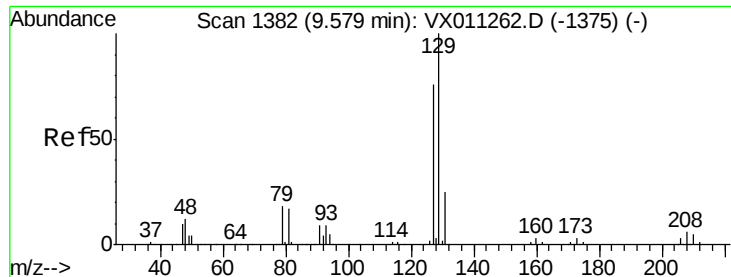
Tgt Ion: 43 Resp: 461205

Ion Ratio Lower Upper

43 100

58 55.2 28.2 84.6





#60

Dibromochloromethane

Concen: 53.274 ug/l

RT: 9.58 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z3-0668MSD

Tot Ion:129 Resp: 97045

Ion Ratio Lower Upper

129 100

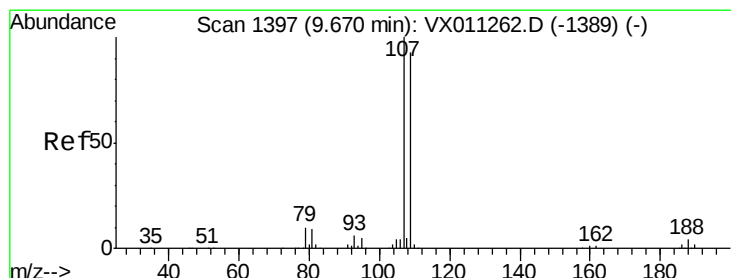
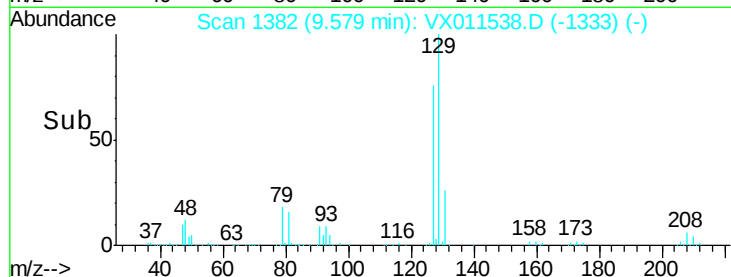
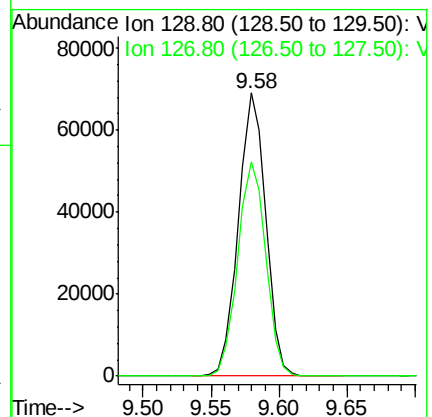
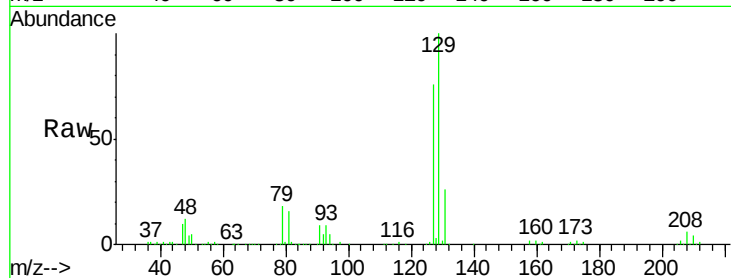
127 77.4 39.2 117.6

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8/14/2019 11:32:05 AM



#61

1,2-Dibromoethane

Concen: 49.843 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VX011538.D

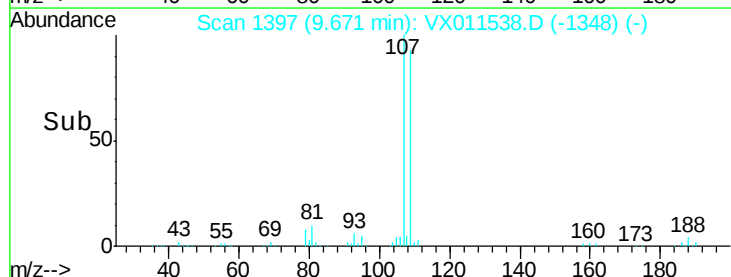
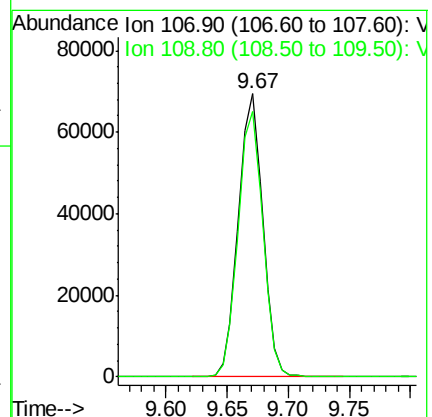
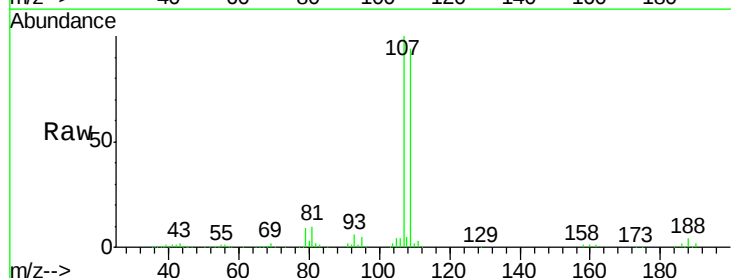
Acq: 13 Aug 2019 16:04

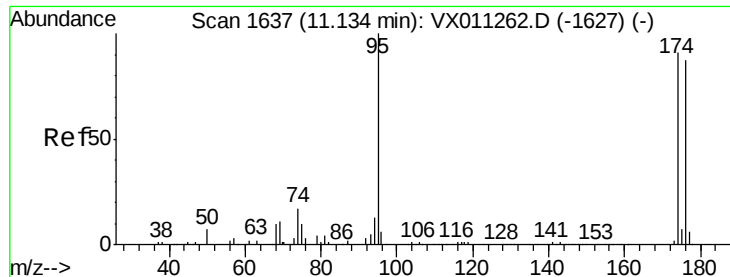
Tgt Ion:107 Resp: 95812

Ion Ratio Lower Upper

107 100

109 95.2 76.6 114.8





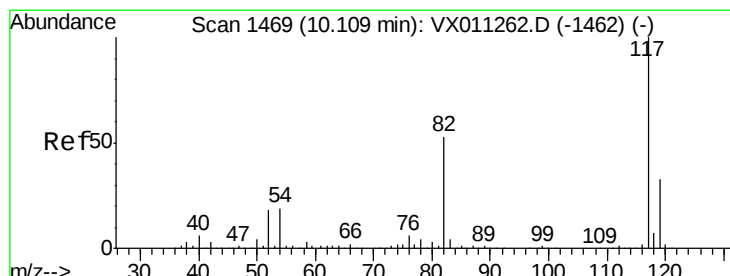
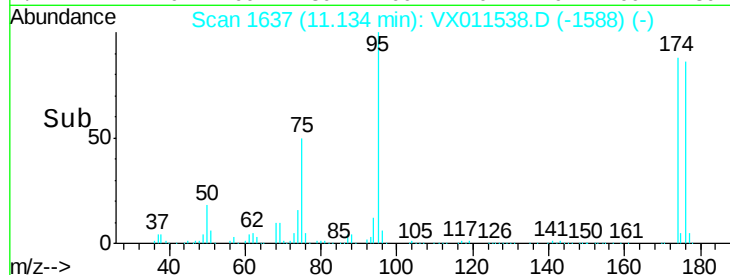
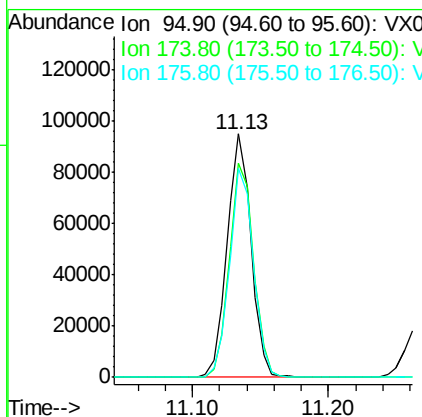
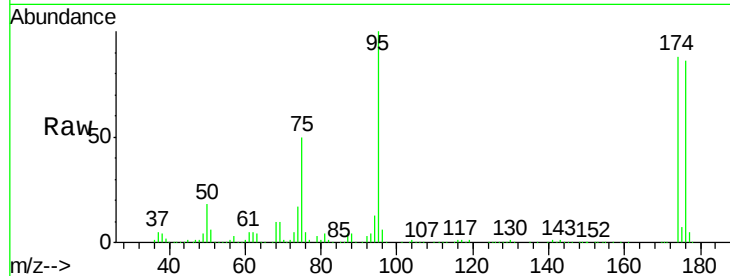
#62
4-Bromofluorobenzene
Concen: 52.585 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampleId :
Z3-0668MSD

Tot Ion	Ratio	Resp	Lower	Upper
95	100	116231		
174	88.8	0.0	191.2	
176	85.6	0.0	184.8	

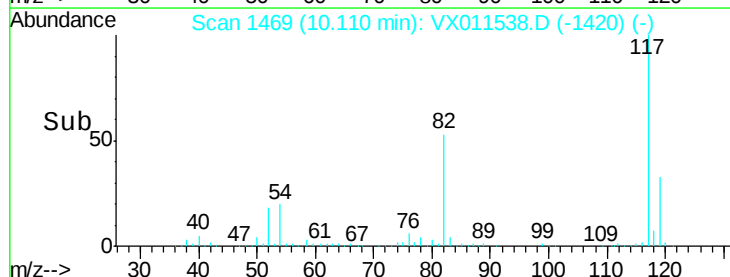
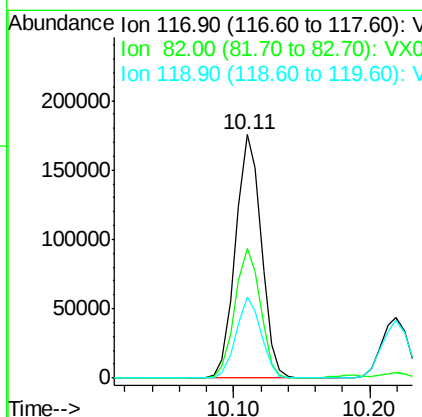
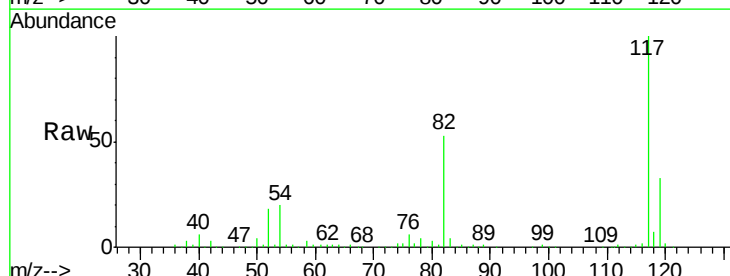
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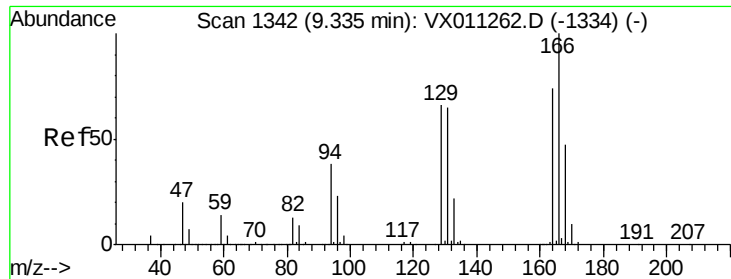
MMDadoda
8/14/2019 11:32:05 AM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	231164		
82	53.0	42.2	63.2	
119	33.1	26.6	39.8	





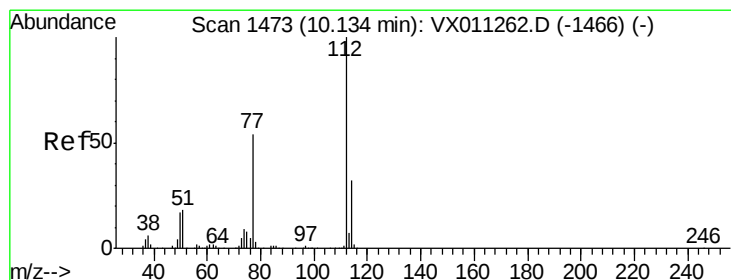
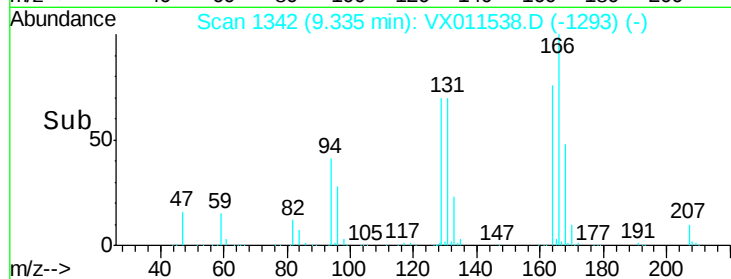
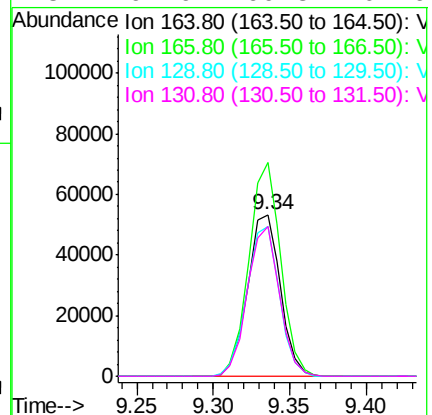
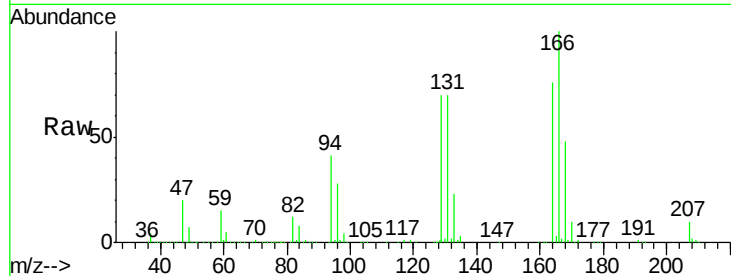
#64
 Tetrachloroethene
 Concen: 40.360 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. 0.00 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0668MSD

Tot Ion	164	166	129	131
Ratio	100	132.3	92.5	92.9
Lower		107.5	71.0	69.8
Upper		161.3	106.4	104.6

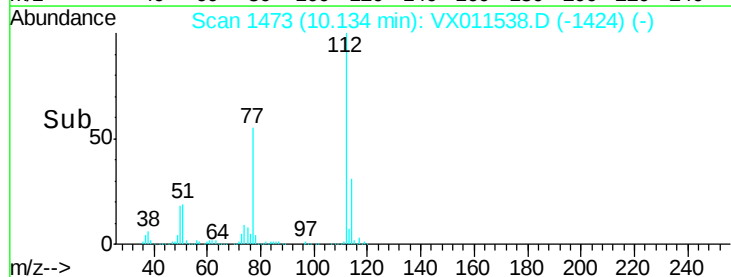
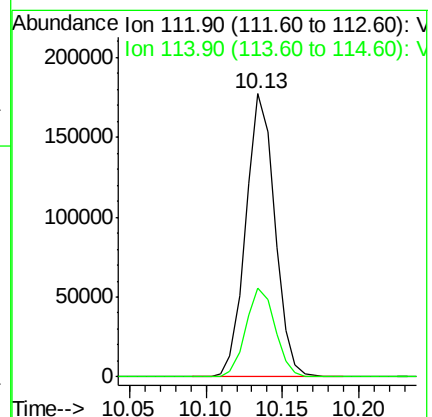
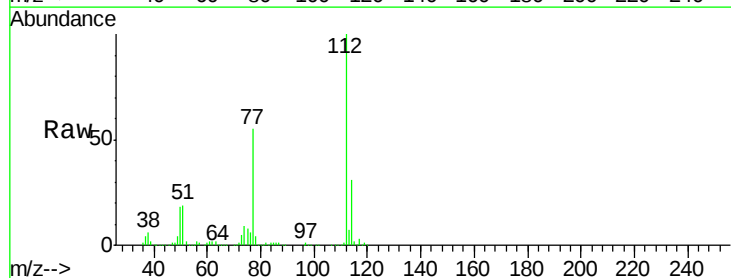
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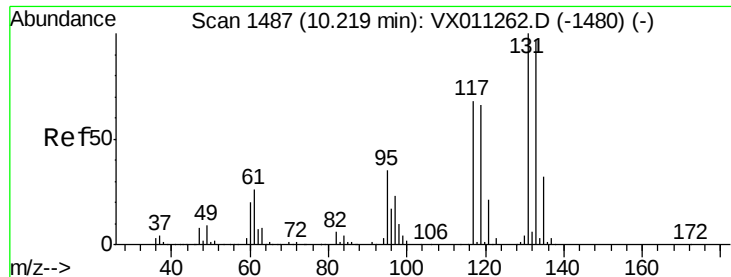
MMDadoda
 8/14/2019 11:32:05 AM



#65
 Chlorobenzene
 Concen: 47.221 ug/l
 RT: 10.13 min Scan# 1473
 Delta R.T. 0.00 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Tgt Ion	112	114
Ratio	100	31.4
Lower		25.9
Upper		38.9





#66

1,1,1,2-Tetrachloroethane

Concen: 52.761 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z3-0668MSD

Tot Ion:131 Resp: 89529

Ion Ratio Lower Upper

131 100

133 97.7 47.7 143.1

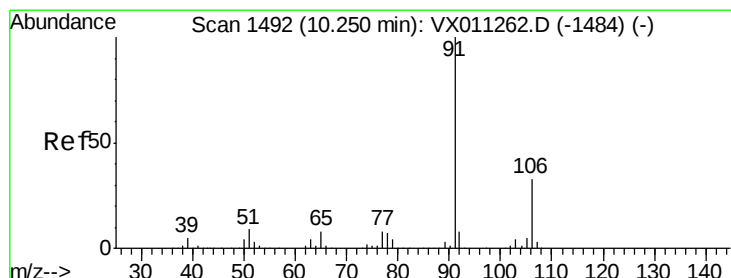
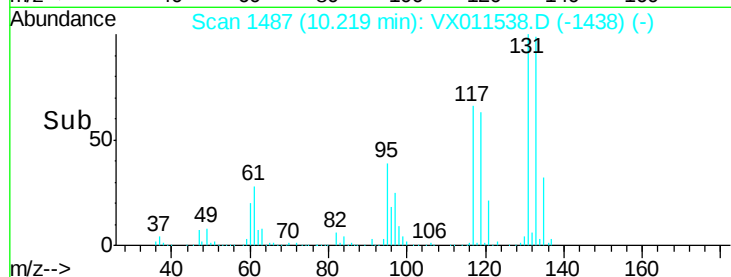
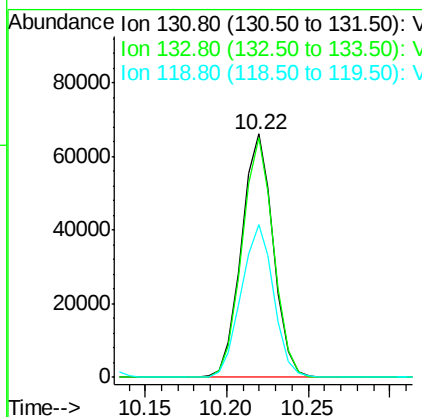
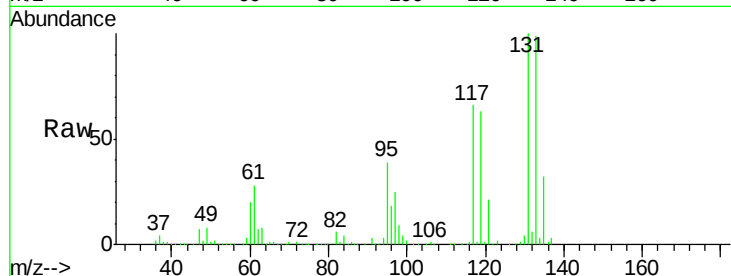
119 64.0 32.8 98.3

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8/14/2019 11:32:05 AM



#67

Ethyl Benzene

Concen: 226.267 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX011538.D

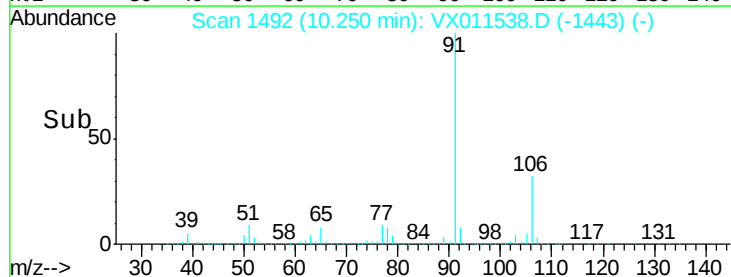
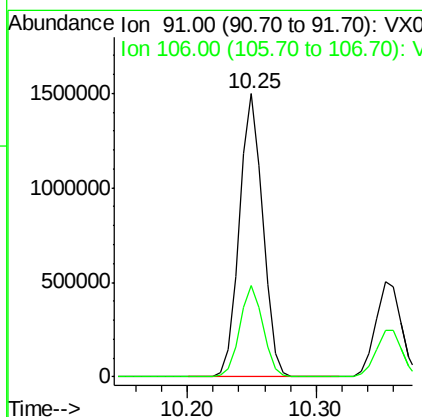
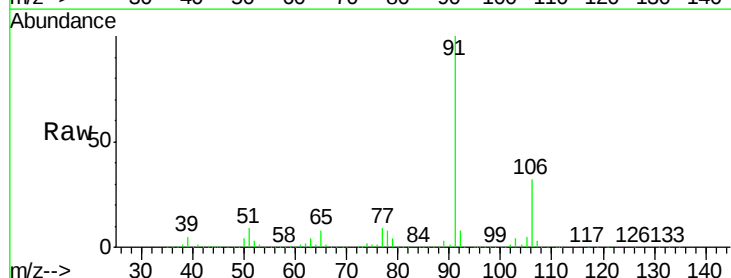
Acq: 13 Aug 2019 16:04

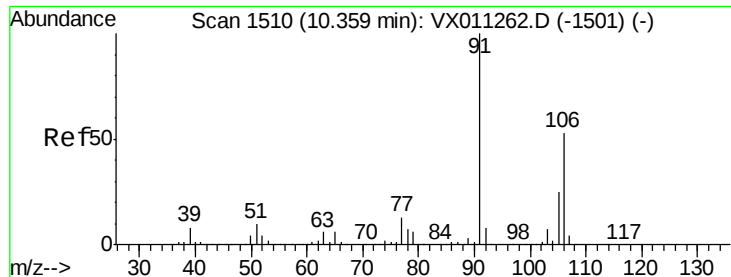
Tgt Ion: 91 Resp: 1878203

Ion Ratio Lower Upper

91 100

106 32.3 26.2 39.4





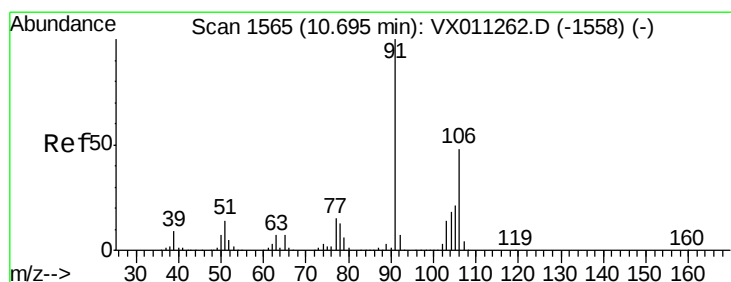
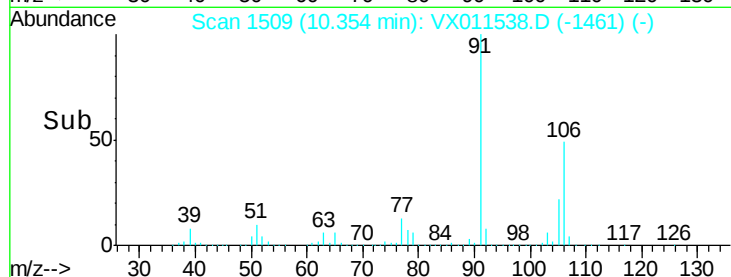
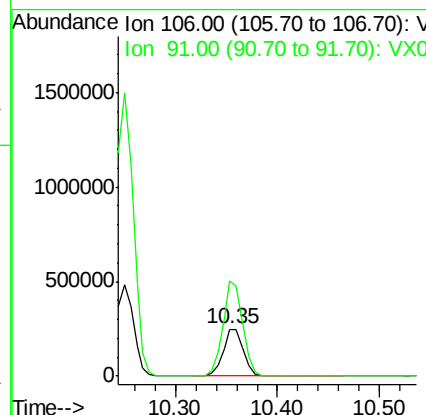
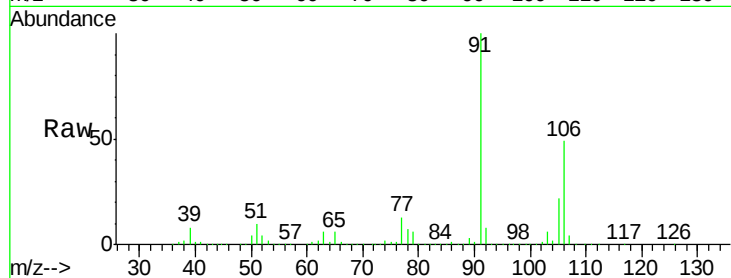
#68
m/p-Xylenes
Concen: 105.955 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampleId :
Z3-0668MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		340195		
91	201.1	155.9	233.9		

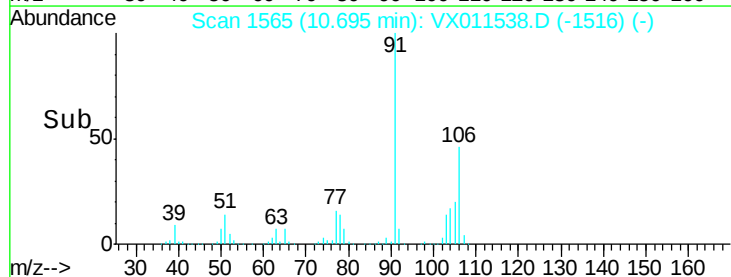
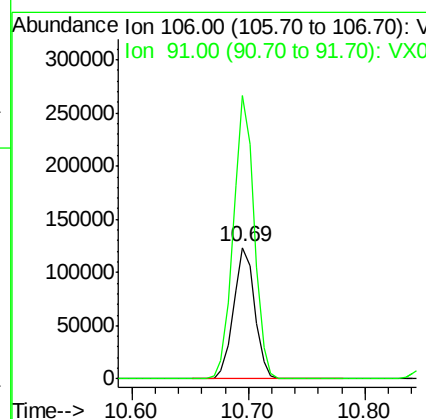
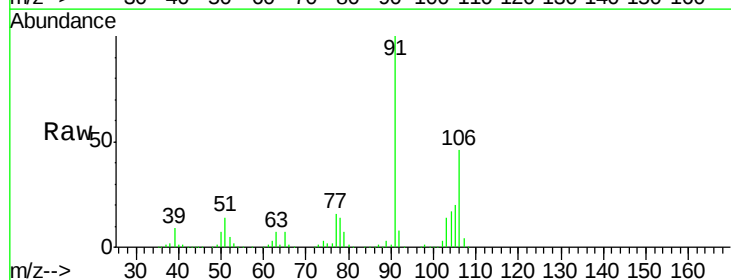
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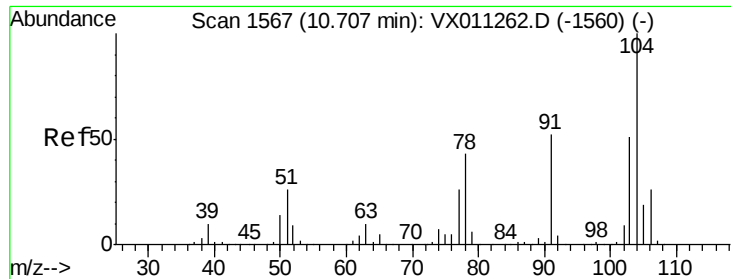
MMDadoda
8/14/2019 11:32:05 AM



#69
o-Xylene
Concen: 49.210 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100		155242		
91	212.6	103.8	311.3		





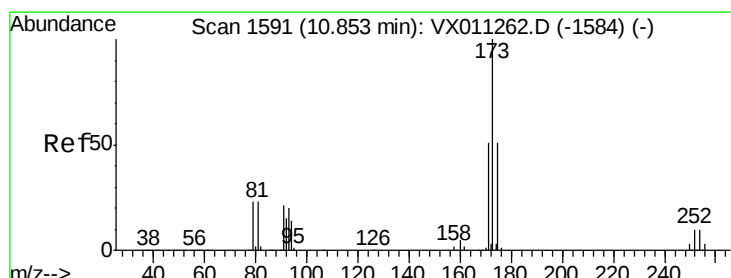
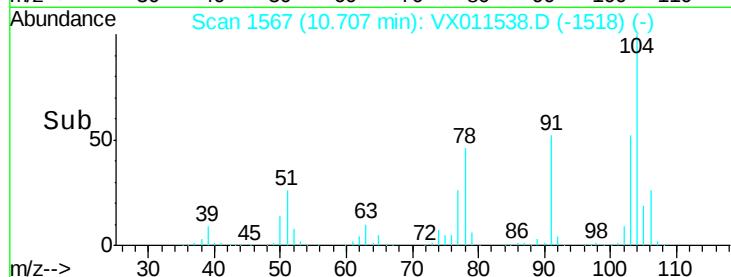
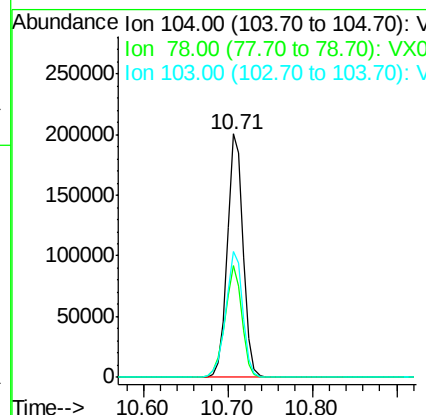
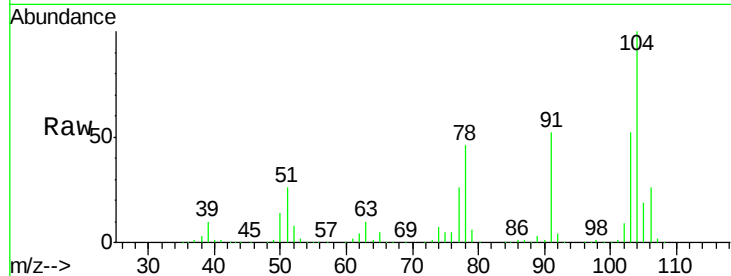
#70
Stvrene
Concen: 49.913 ug/l
RT: 10.71 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampled :
Z3-0668MSD

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.4	36.9	55.3
103	55.8	44.4	66.6

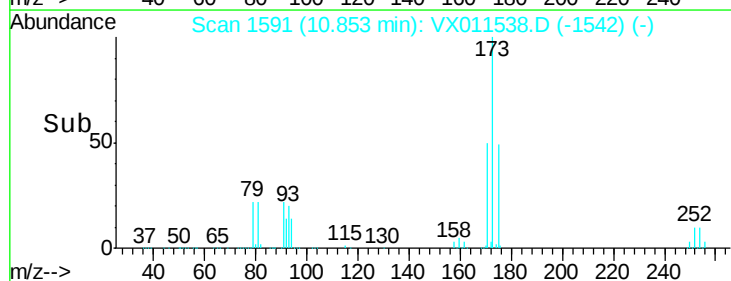
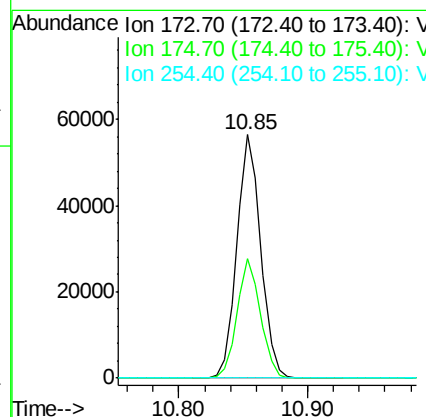
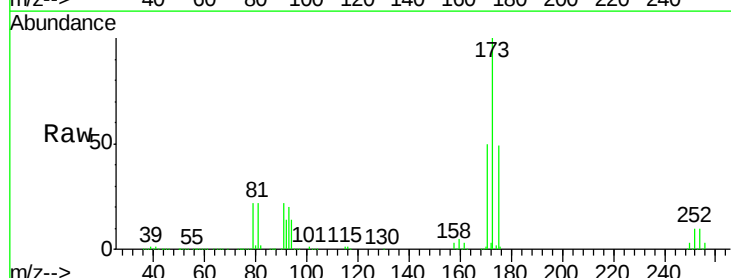
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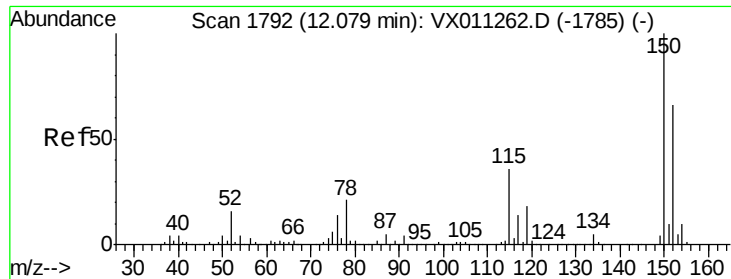
MMDadoda
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#71
Bromoform
Concen: 48.209 ug/l
RT: 10.85 min Scan# 1591
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.4	73.4
254	0.1	0.2	0.2#





#72

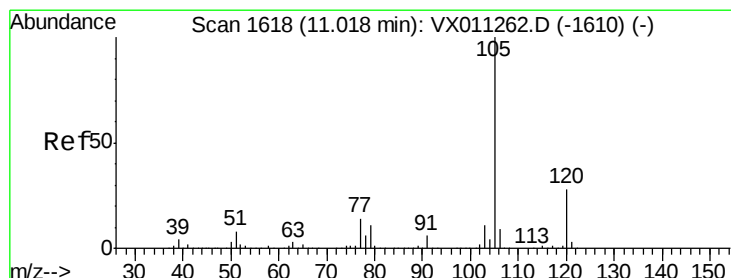
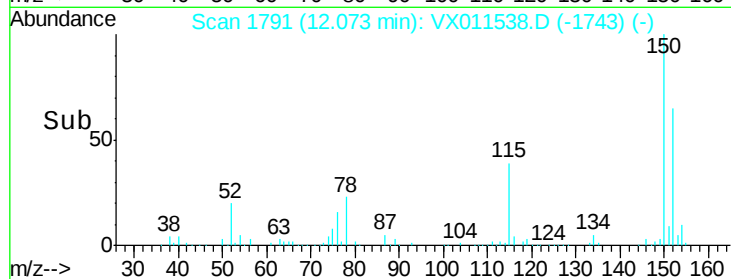
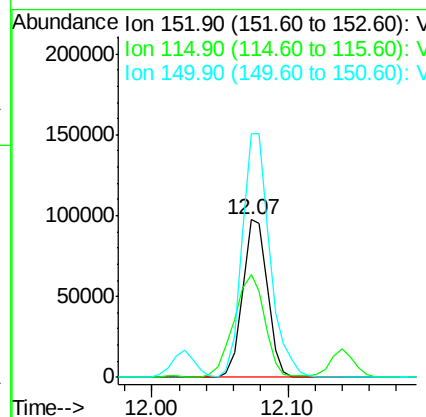
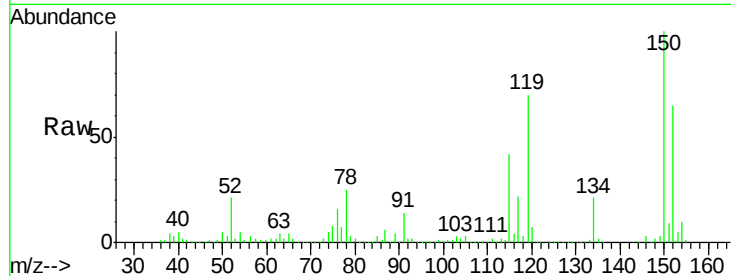
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Instrument :
MSVOA_X
ClientSampleId :
Z3-0668MSD

Tot Ion	Ratio	Resp	Lower	Upper
152	100	123595		
115	80.2	40.0	119.9	
150	173.0	0.0	350.4	

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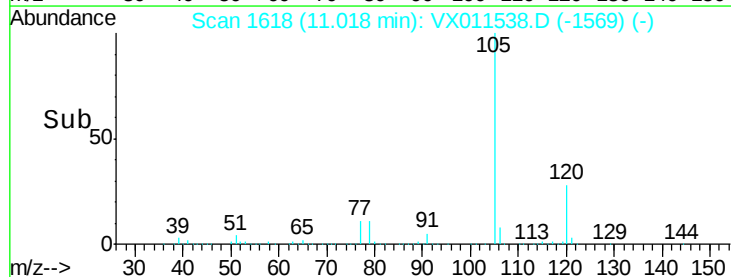
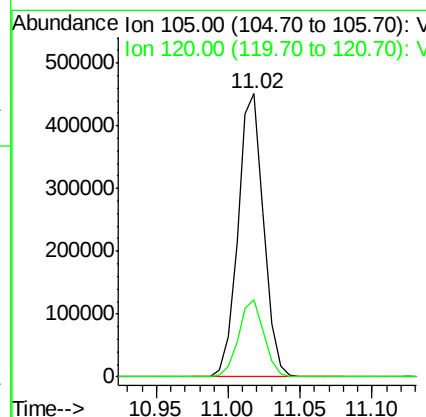
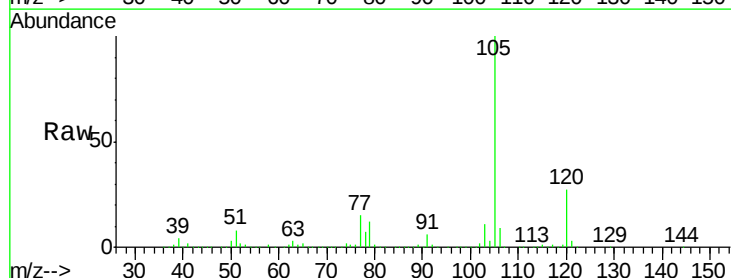
MMDadoda
8/14/2019 11:32:05 AM

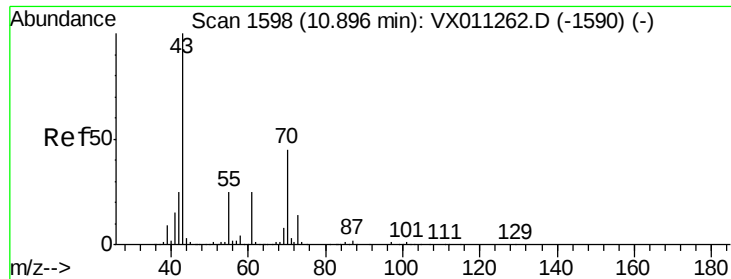


#73

Isopropylbenzene
Concen: 66.127 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX011538.D
Acq: 13 Aug 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	558974		
120	27.0	13.7	41.1	





#74

N-amvl acetate

Concen: 53.949 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

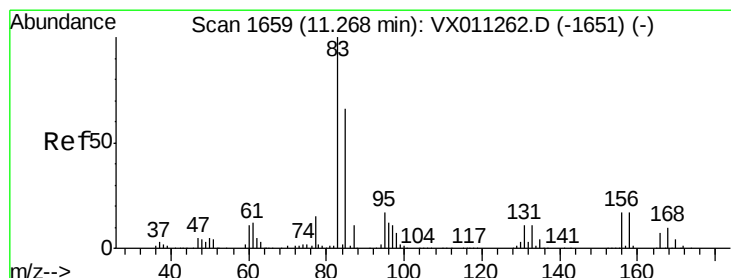
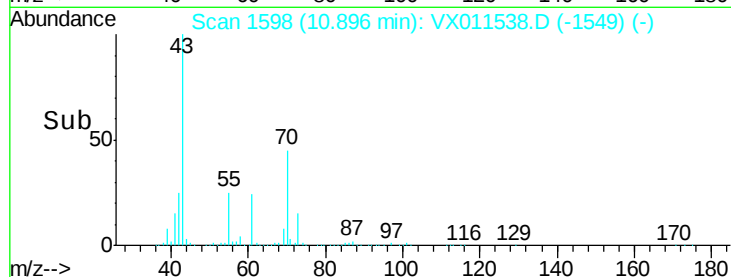
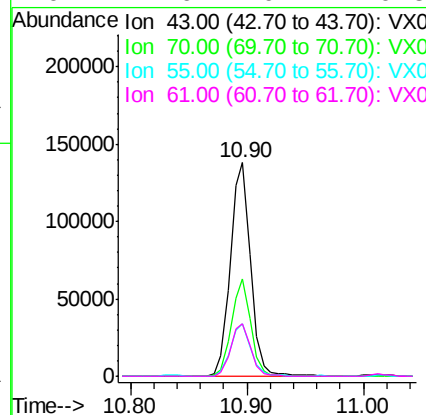
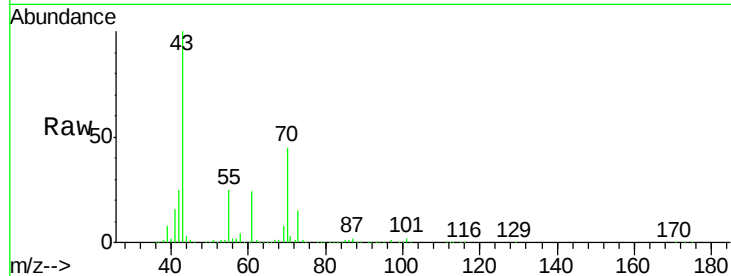
ClientSampleId :

Z3-0668MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		164779		
70	43.8		35.9	53.9	
55	24.7		19.8	29.6	
61	24.6		19.7	29.5	

Manual Integrations
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#75

1,1,2,2-Tetrachloroethane

Concen: 49.877 ug/l

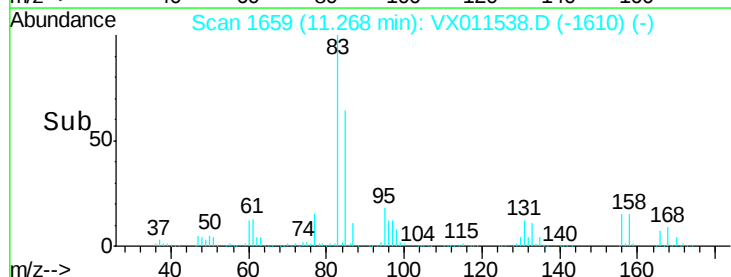
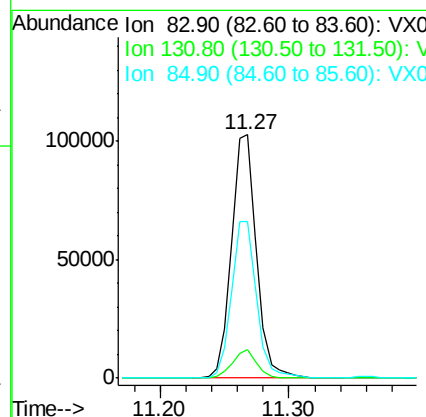
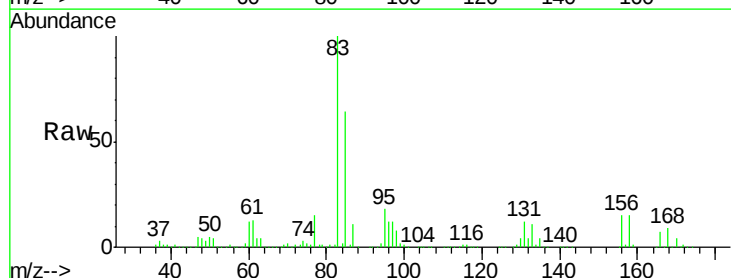
RT: 11.27 min Scan# 1659

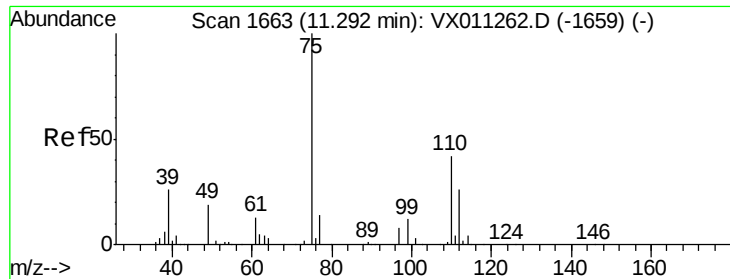
Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		140502		
131	11.3		5.6	16.8	
85	64.8		32.1	96.5	





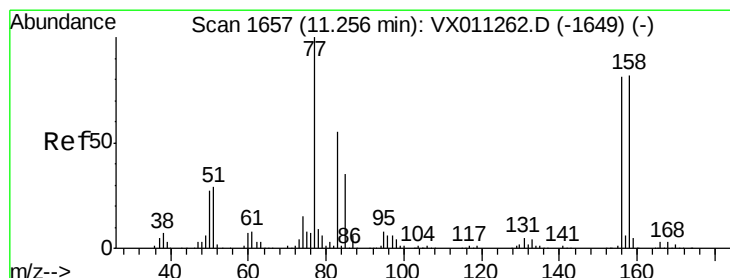
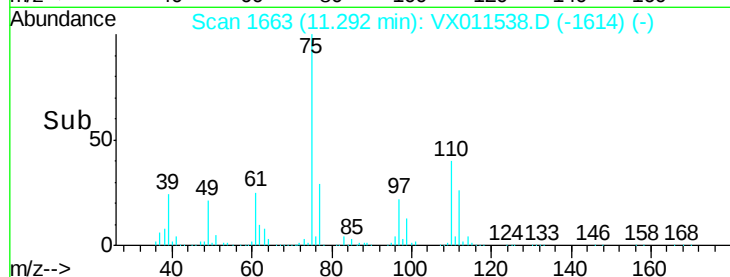
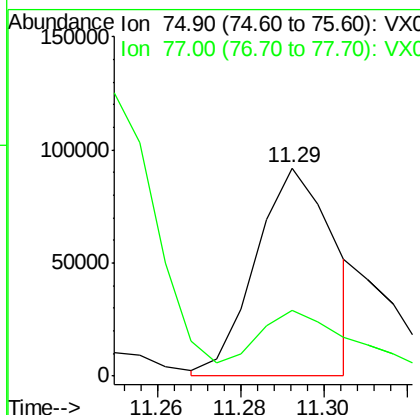
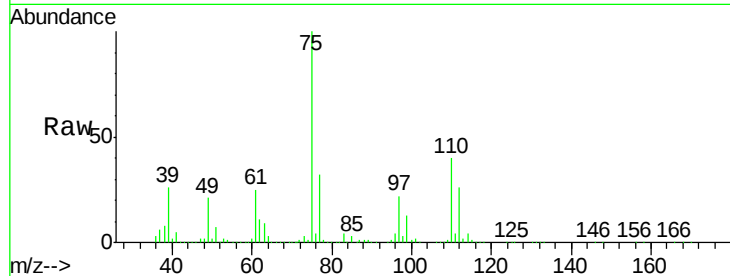
#76
 1,2,3-Trichloropropane
 Concen: 53.026 ug/l m
 RT: 11.29 min Scan# 1663
 Delta R.T. 0.00 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0668MSD

Tot Ion: 75 Resp: 119352
 Ion Ratio Lower Upper
 75 100
 77 40.8 21.1 63.4

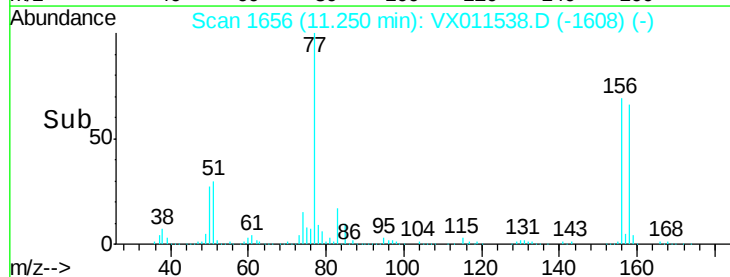
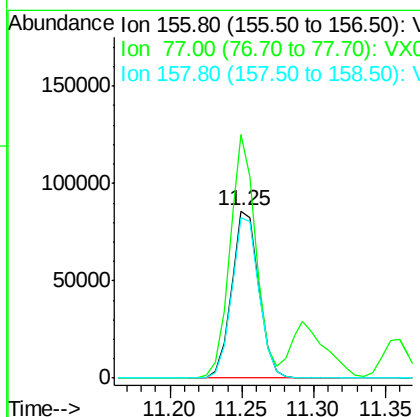
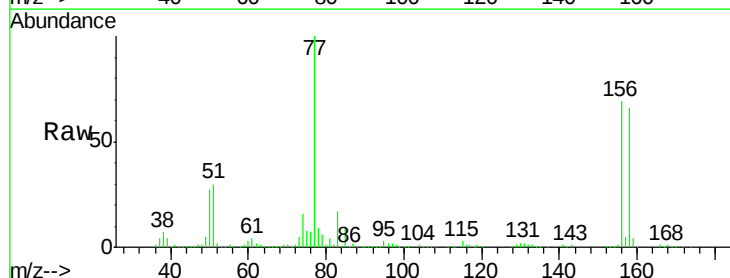
Manual Integrations
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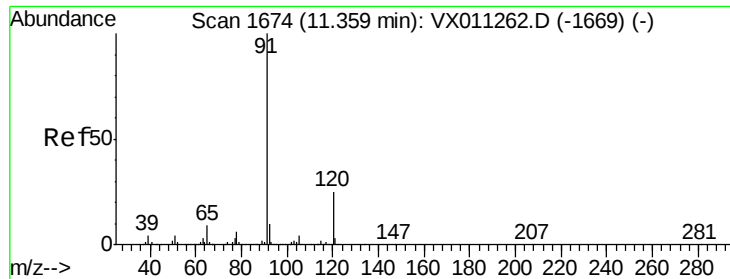
MMDadoda
 8/14/2019 11:32:05 AM



#77
 Bromobenzene
 Concen: 48.337 ug/l
 RT: 11.25 min Scan# 1656
 Delta R.T. -0.01 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Tgt Ion: 156 Resp: 113301
 Ion Ratio Lower Upper
 156 100
 77 139.1 66.2 198.6
 158 96.3 49.1 147.3





#78

n-propylbenzene

Concen: 68.105 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z3-0668MSD

Tot Ion: 91 Resp: 640204

Ion Ratio Lower Upper

91 100

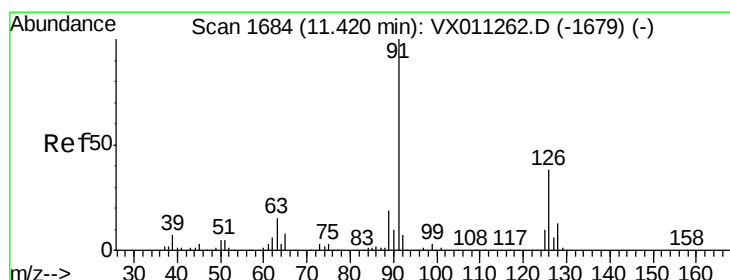
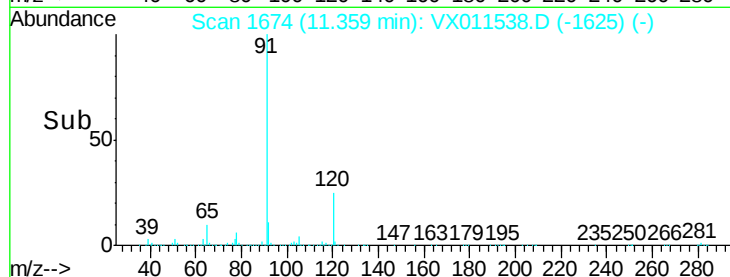
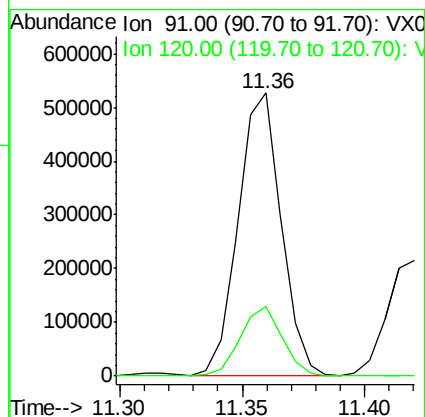
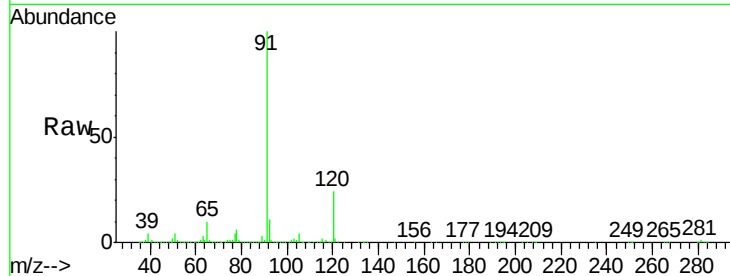
120 24.1 12.4 37.0

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#79

2-Chlorotoluene

Concen: 49.091 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX011538.D

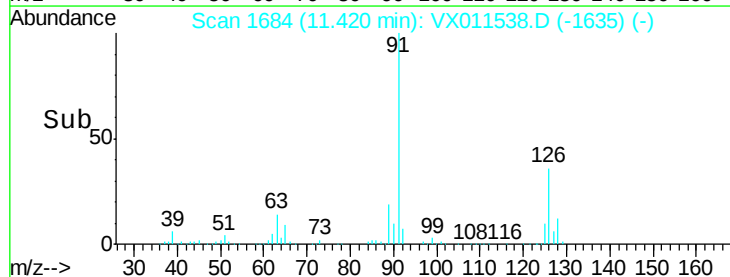
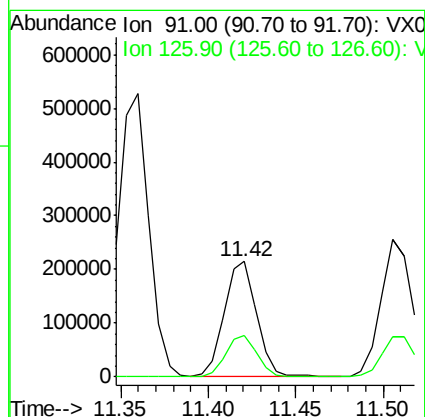
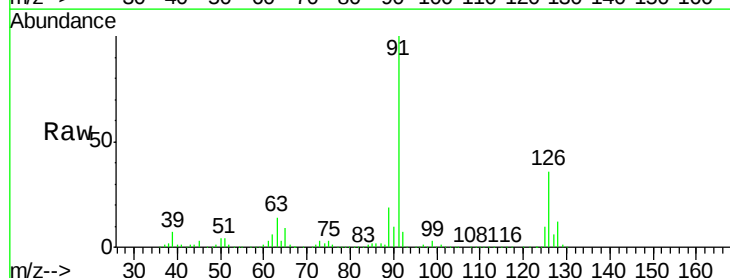
Acq: 13 Aug 2019 16:04

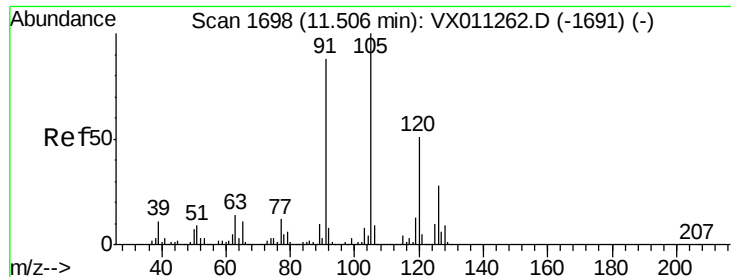
Tgt Ion: 91 Resp: 275051

Ion Ratio Lower Upper

91 100

126 35.6 18.5 55.5





#80

1,3,5-Trimethylbenzene

Concen: 48.272 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z3-0668MSD

Tot Ion:105 Resp: 341579

Ion Ratio Lower Upper

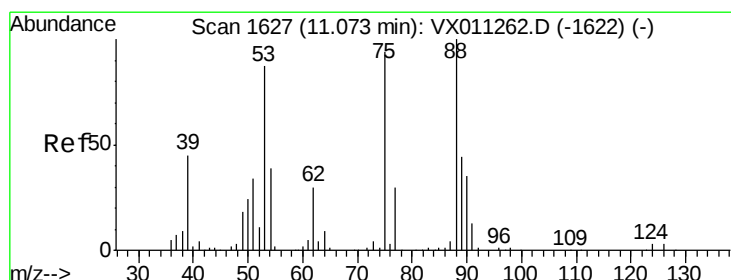
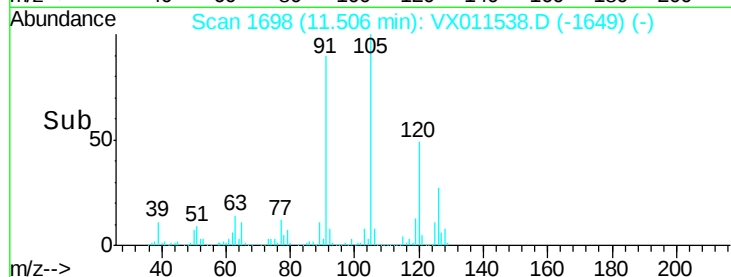
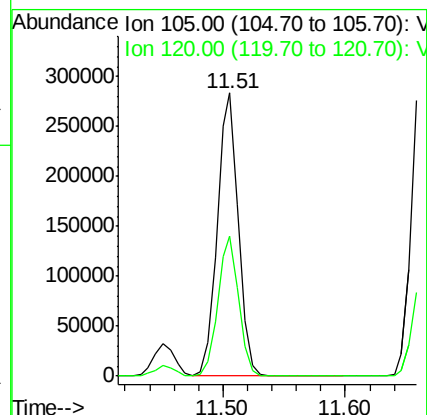
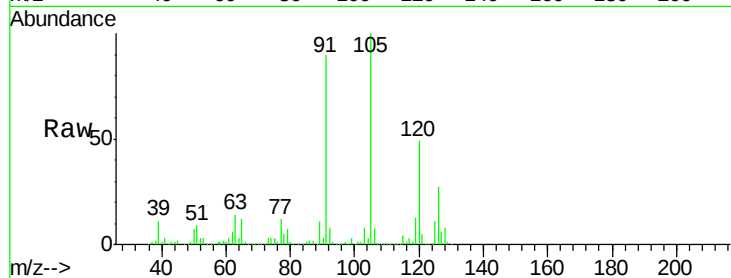
105 100

120 49.0 25.1 75.2

Manual Integrations
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#81

trans-1,4-Dichloro-2-butene

Concen: 47.059 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

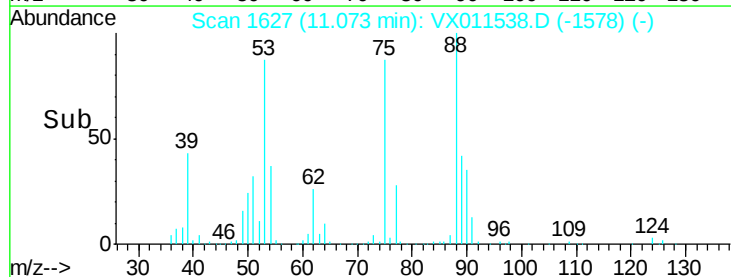
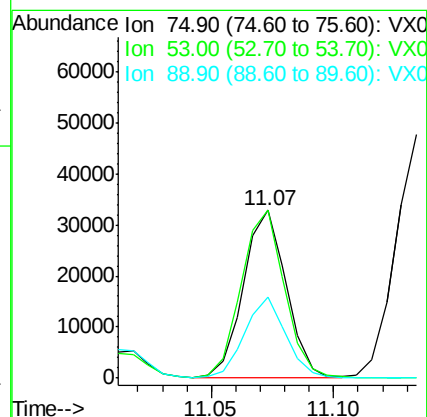
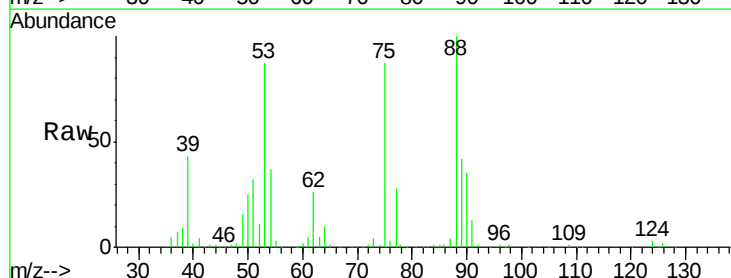
Tgt Ion: 75 Resp: 39420

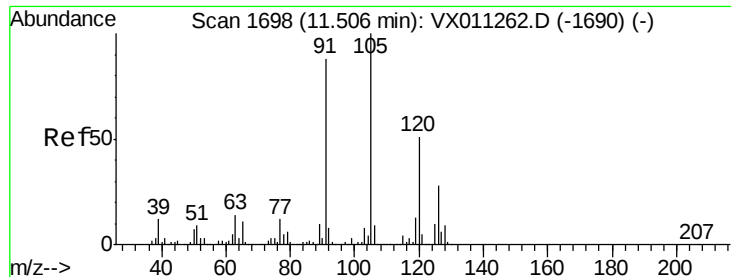
Ion Ratio Lower Upper

75 100

53 101.9 78.2 117.4

89 47.2 37.9 56.9





#82

4-Chlorotoluene

Concen: 48.509 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampled :

Z3-0668MSD

Tot Ion: 91 Resp: 316752

Ion Ratio Lower Upper

91 100

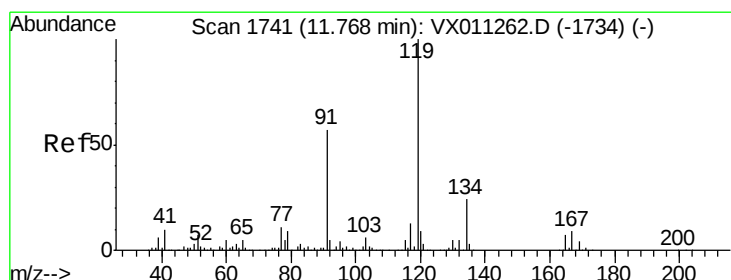
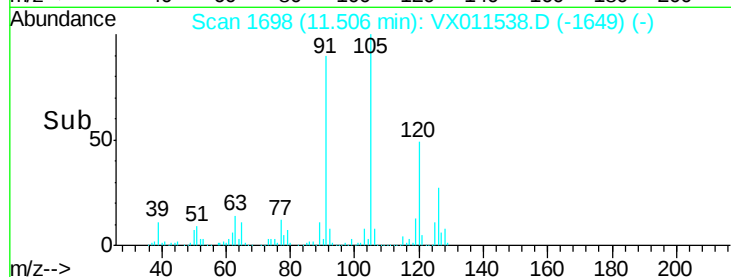
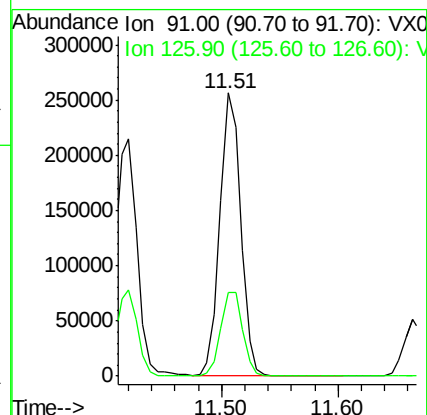
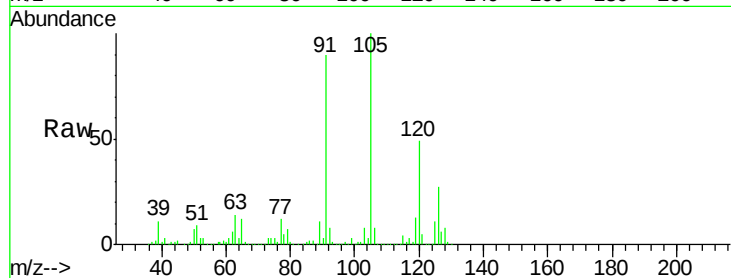
126 31.1 16.4 49.2

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#83

tert-Butylbenzene

Concen: 49.588 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

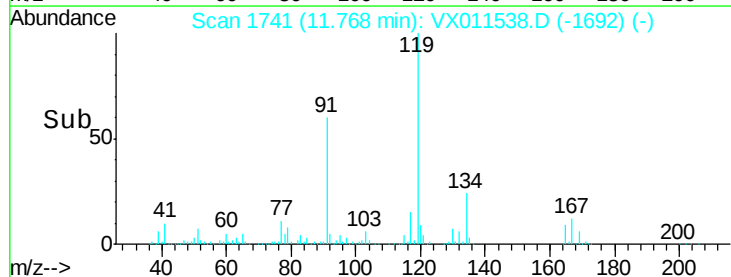
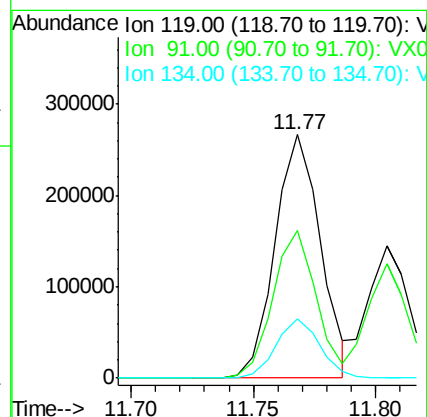
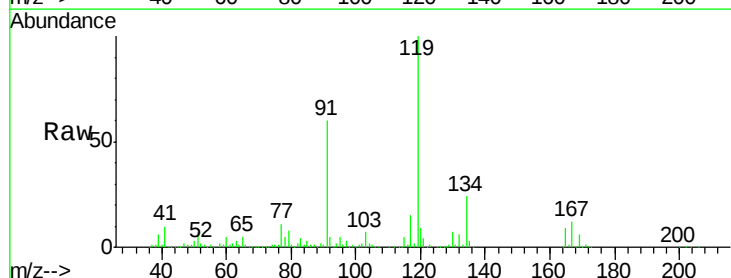
Tgt Ion: 119 Resp: 344146

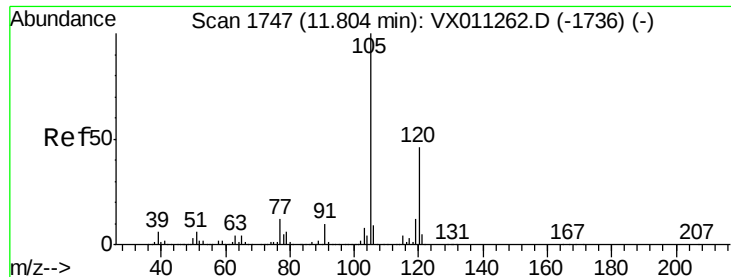
Ion Ratio Lower Upper

119 100

91 57.8 28.0 84.0

134 23.6 11.9 35.5





#84

1,2,4-Trimethylbenzene

Concen: 194.236 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z3-0668MSD

Tot Ion:105 Resp: 1368420

Ion Ratio Lower Upper

105 100

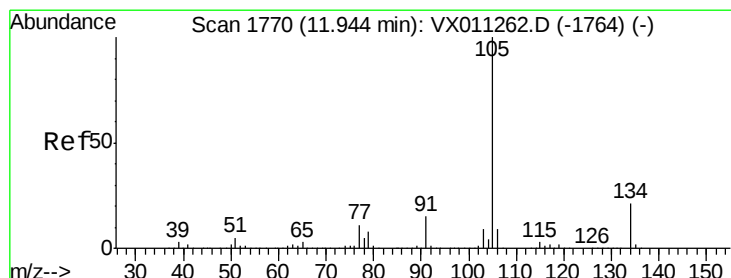
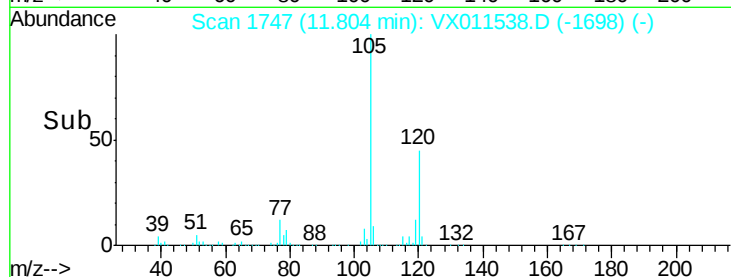
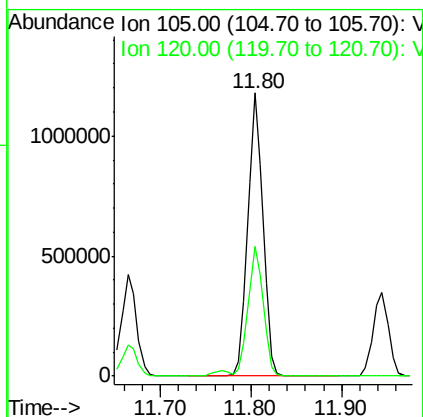
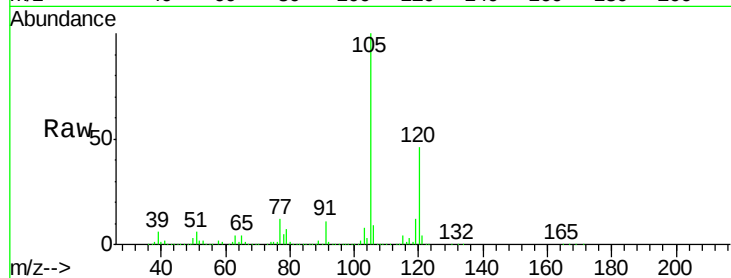
120 46.0 23.0 69.0

Manual Integrations

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#85

sec-Butylbenzene

Concen: 49.645 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX011538.D

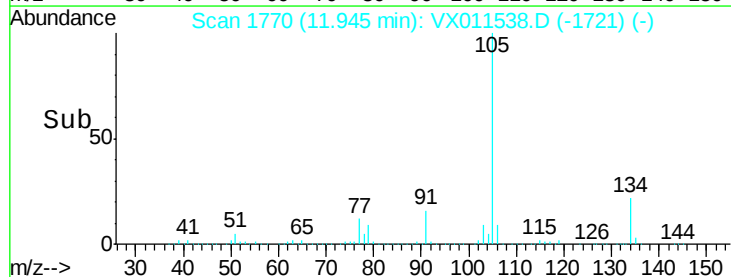
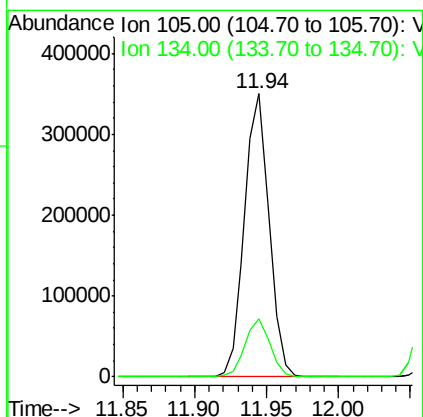
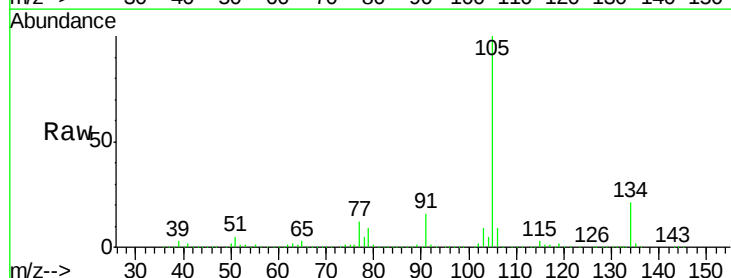
Acq: 13 Aug 2019 16:04

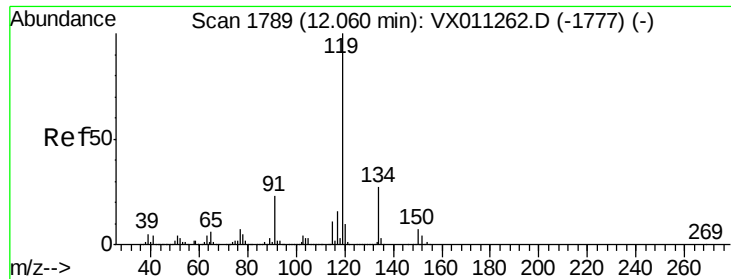
Tgt Ion:105 Resp: 413949

Ion Ratio Lower Upper

105 100

134 21.0 10.4 31.4





#86

p-Isopropyltoluene

Concen: 48.564 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

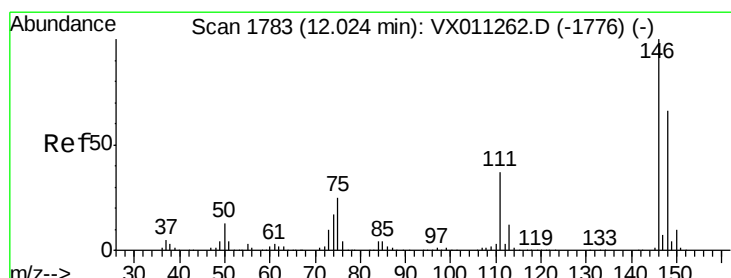
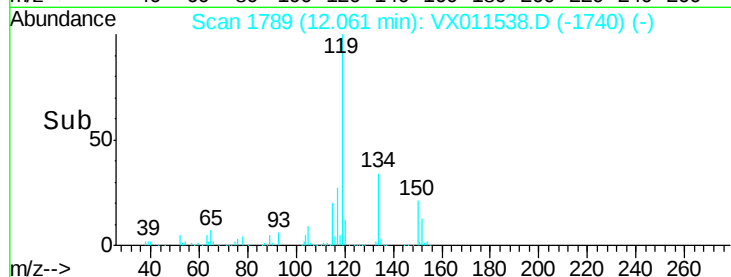
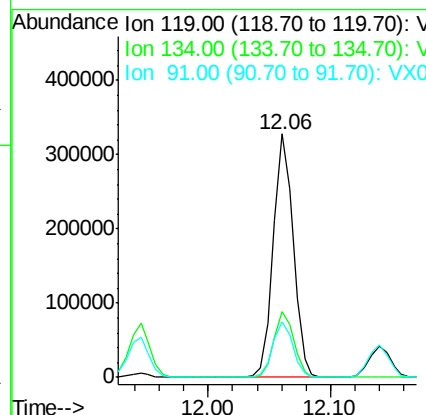
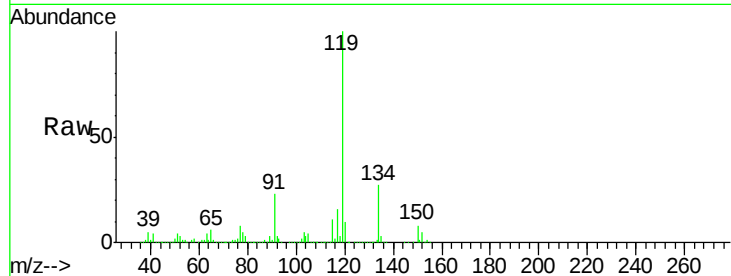
ClientSampleId :

Z3-0668MSD

Tot Ion:	119	Resp:	372525
Ion Ratio	Lower	Upper	
119	100		
134	27.1	13.7	41.0
91	23.2	11.4	34.2

Manual Integrations
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#87

1,3-Dichlorobenzene

Concen: 47.228 ug/l

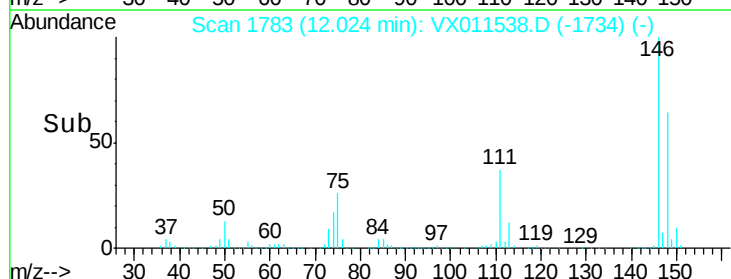
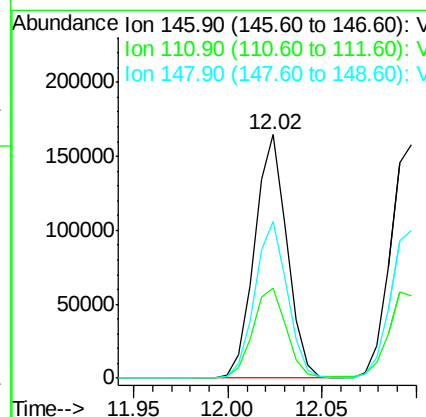
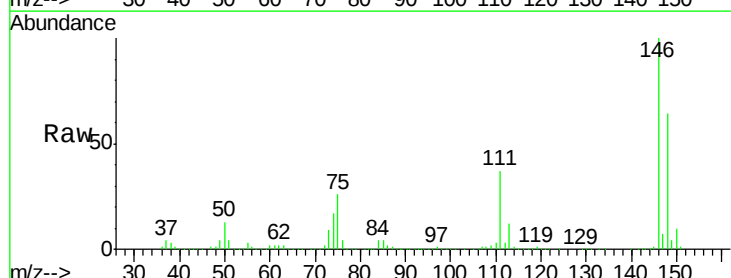
RT: 12.02 min Scan# 1783

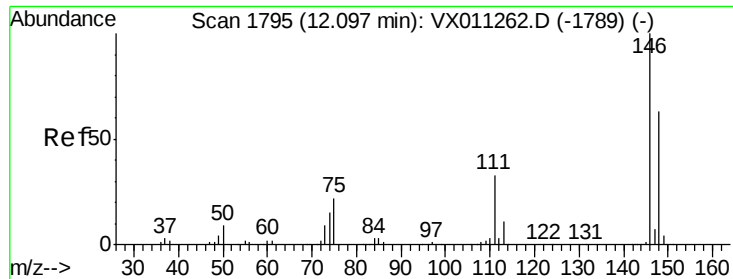
Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Tgt Ion:	146	Resp:	195600
Ion Ratio	Lower	Upper	
146	100		
111	38.4	18.6	55.8
148	64.5	32.5	97.5





#88

1,4-Dichlorobenzene

Concen: 46.194 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

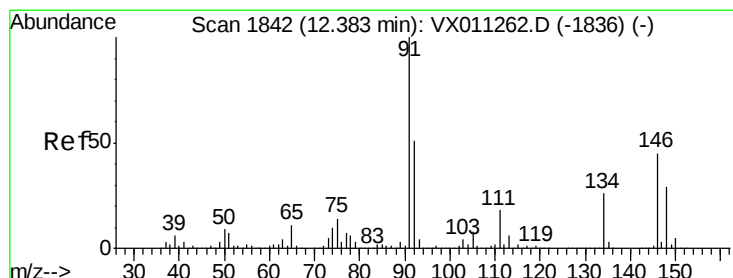
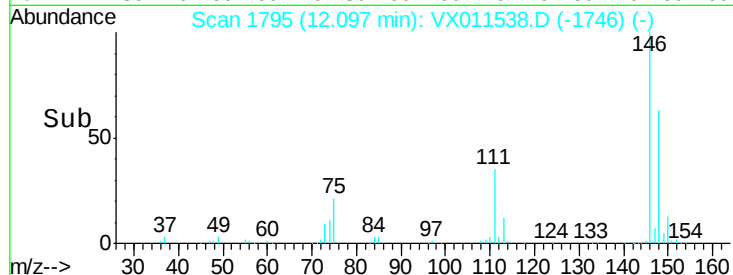
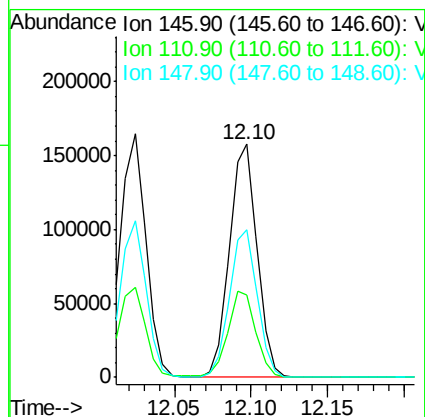
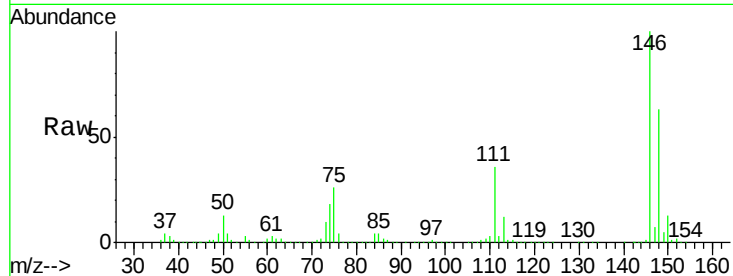
ClientSampleId :

Z3-0668MSD

Tot Ion:	146	Resp:	197279
Ion Ratio		Lower	Upper
146	100		
111	37.7	17.8	53.4
148	63.9	31.8	95.3

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#89

n-Butylbenzene

Concen: 48.775 ug/l

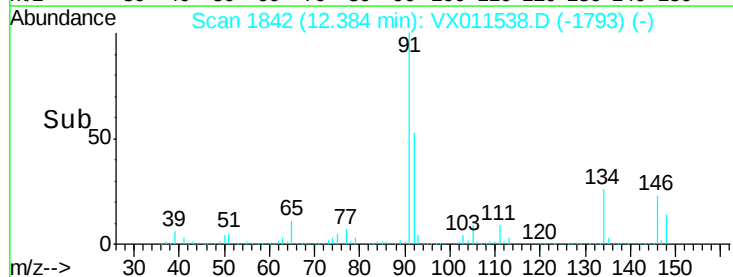
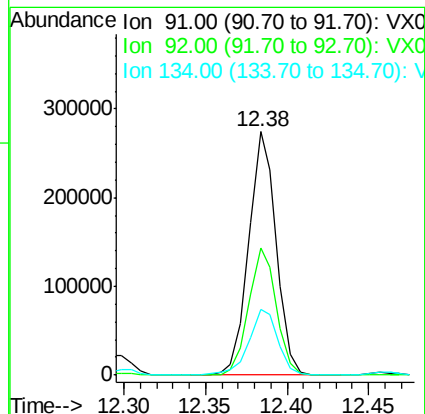
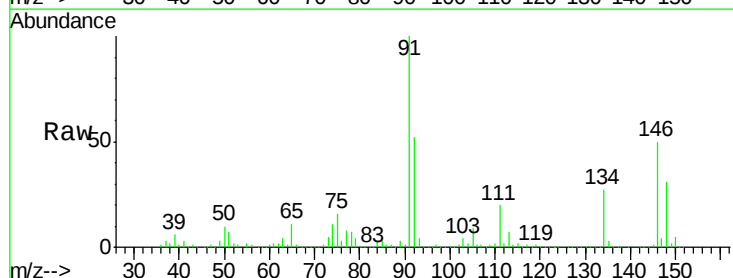
RT: 12.38 min Scan# 1842

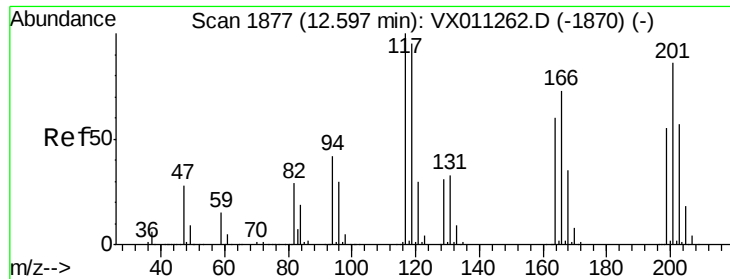
Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Tgt Ion:	91	Resp:	322339
Ion Ratio		Lower	Upper
91	100		
92	52.6	25.8	77.3
134	28.8	13.7	41.0





#90

Hexachloroethane

Concen: 57.288 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

ClientSampleId :

Z3-0668MSD

Tot Ion:117 Resp: 64969

Ion Ratio Lower Upper

117 100

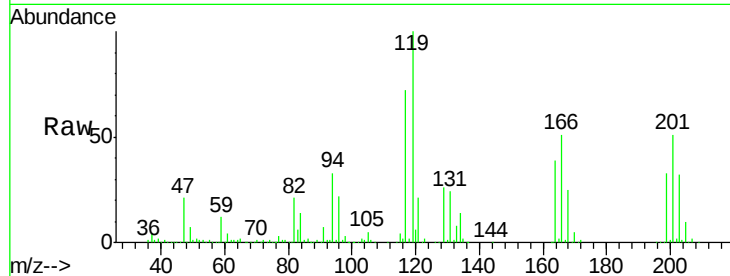
201 76.8 41.8 125.4

Manual Integrations

APPROVED

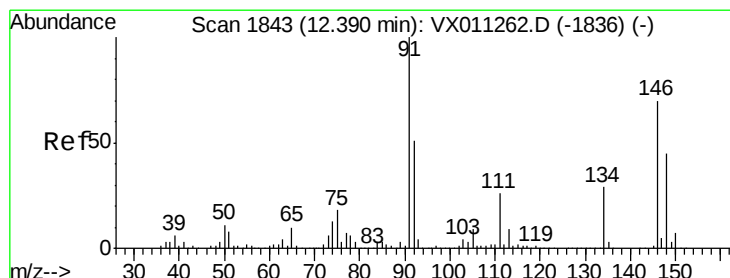
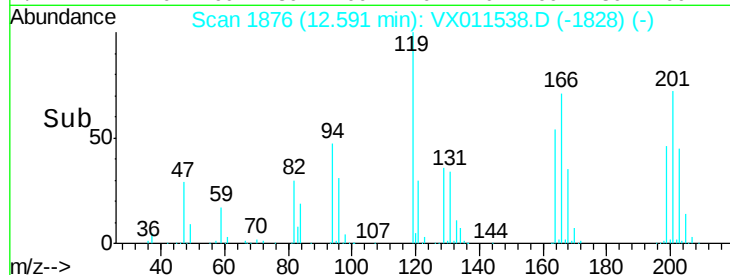
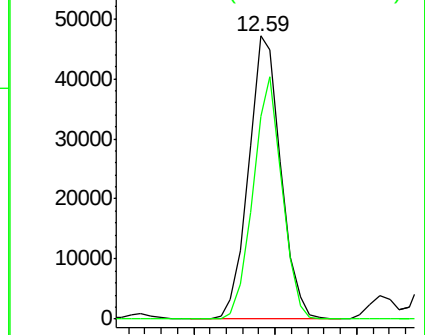
MMDadoda

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Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 47.882 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

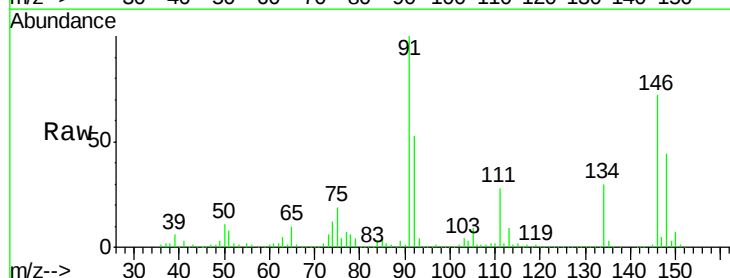
Tgt Ion:146 Resp: 199256

Ion Ratio Lower Upper

146 100

111 39.3 19.1 57.1

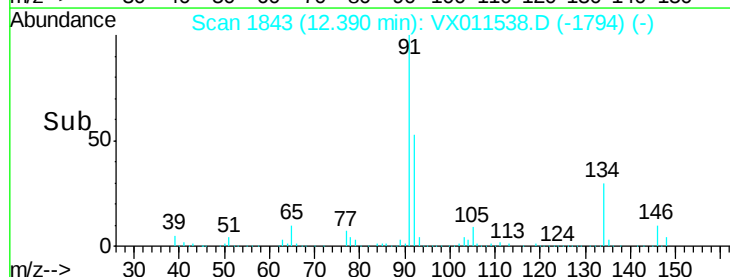
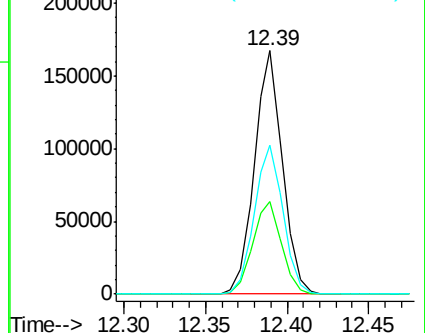
148 62.7 32.3 96.8

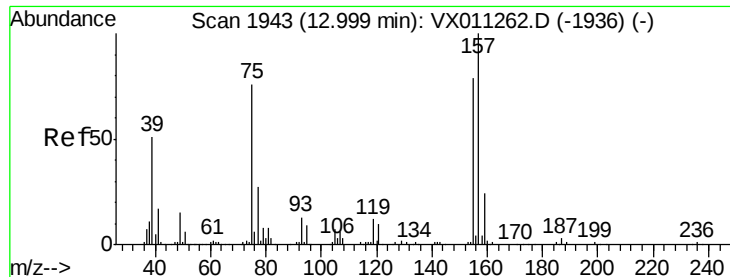


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 57.250 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

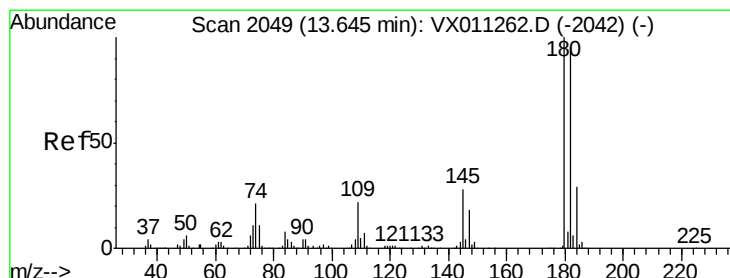
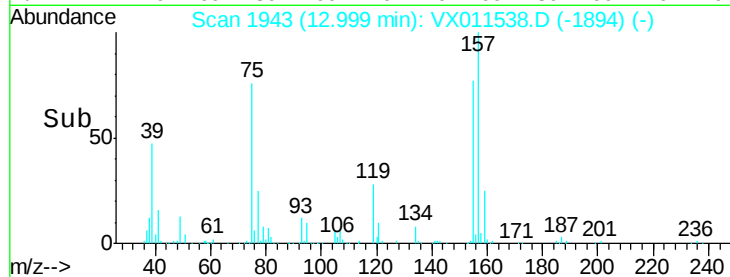
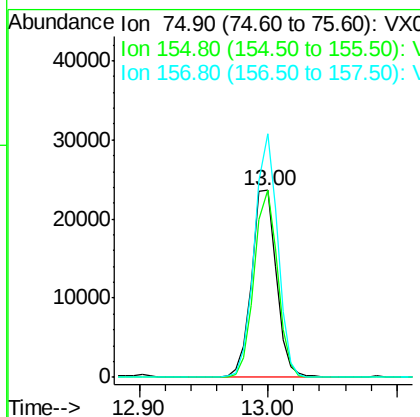
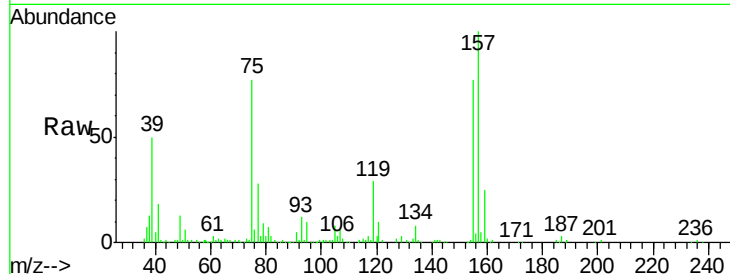
ClientSampleId :

Z3-0668MSD

Tot Ion:	75	Resp:	31245
Ion	Ratio	Lower	Upper
75	100		
155	93.7	51.9	155.8
157	120.6	64.3	192.7

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#93

1,2,4-Trichlorobenzene

Concen: 49.410 ug/l

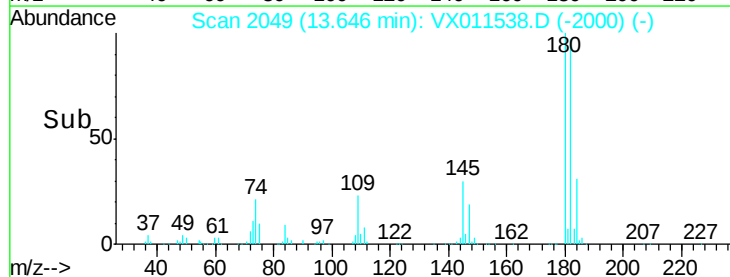
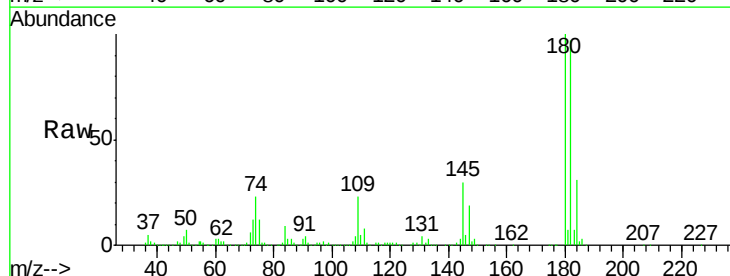
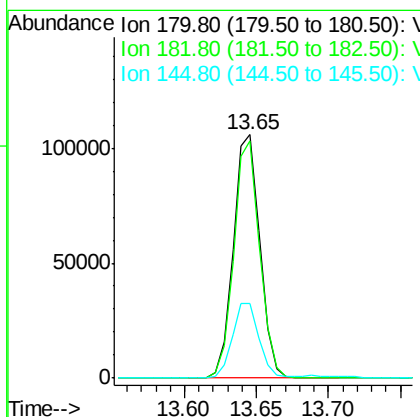
RT: 13.65 min Scan# 2049

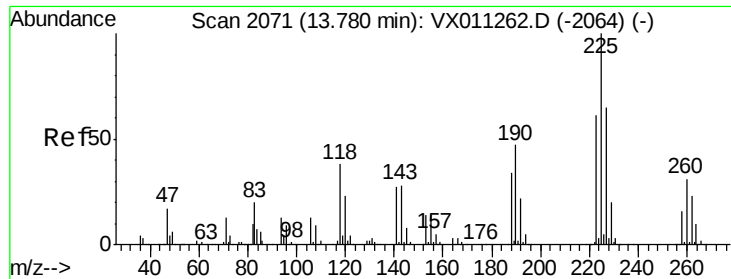
Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Tgt Ion:	180	Resp:	136358
Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.8	143.4
145	31.4	14.8	44.3





#94

Hexachlorobutadiene

Concen: 45.524 ug/l

RT: 13.78 min Scan# 2071

Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Instrument :

MSVOA_X

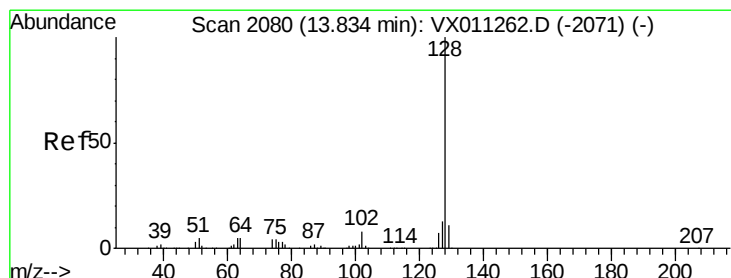
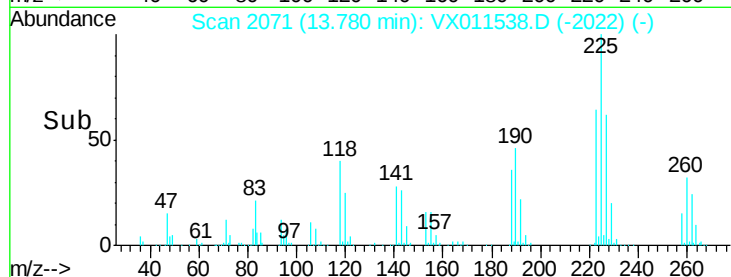
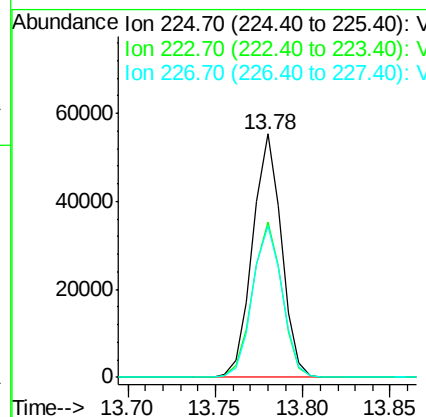
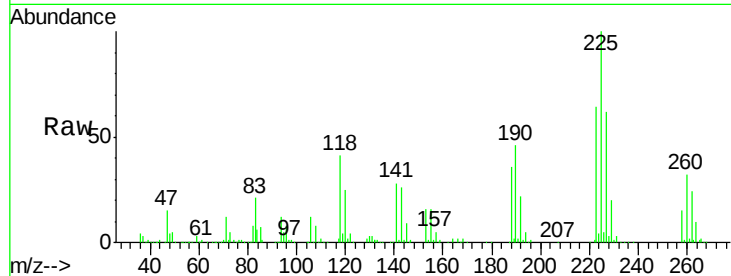
ClientSampled :

Z3-0668MSD

Tot Ion:	225	Resp:	63741
Ion Ratio	Lower	Upper	
225	100		
223	64.7	31.0	93.0
227	63.8	32.2	96.6

Manual Integrations
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#95

Naphthalene

Concen: 118.823 ug/l

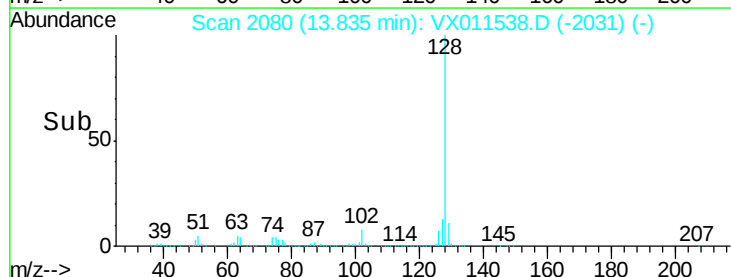
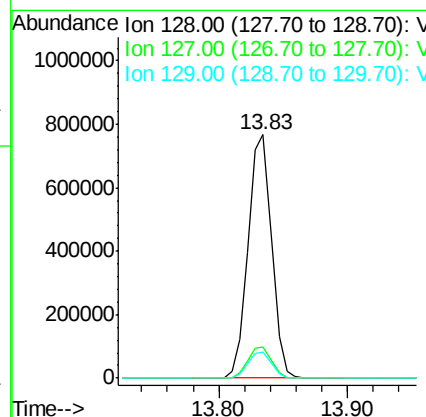
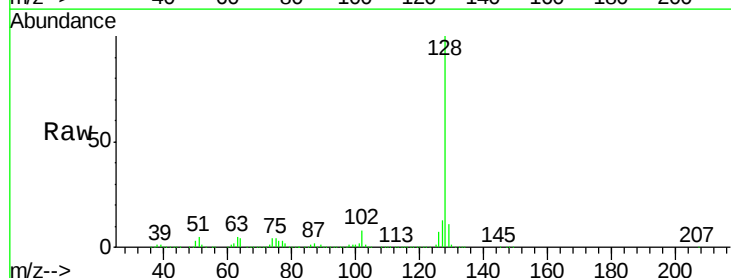
RT: 13.83 min Scan# 2080

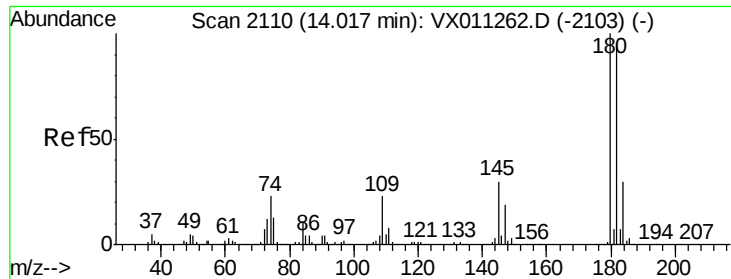
Delta R.T. 0.00 min

Lab File: VX011538.D

Acq: 13 Aug 2019 16:04

Tgt Ion:	128	Resp:	958962
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.4	15.6
129	10.9	8.9	13.3





#96
 1,2,3-Trichlorobenzene
 Concen: 49.185 ug/l
 RT: 14.02 min Scan# 2110
 Delta R.T. 0.00 min
 Lab File: VX011538.D
 Acq: 13 Aug 2019 16:04

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0668MSD

Tot Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	95.1	47.4	142.3
145	32.9	15.2	45.6

Manual Integrations
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 8/14/2019 11:32:05 AM

