

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100720\
 Data File : VX018821.D
 Acq On : 07 Oct 2020 19:22
 Operator : JC/SP
 Sample : L4221-09
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OK-01-100620

Quant Time: Oct 08 01:20:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Oct 08 01:16:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene	6.83	114	147945	5.00	uq/L	0.00
28) Chlorobenzene-d5	10.10	117	136553	5.00	uq/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	72192	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	32108	3.71	uq/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.20%
7) Chloroethane-d5	1.70	69	32327	4.78	uq/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.60%
11) 1,1-Dichloroethene-d2	2.34	63	60061	3.08	uq/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.60%
20) 2-Butanone-d5	4.55	46	143484	63.30	uq/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	126.60%
24) Chloroform-d	5.14	84	98814	4.73	uq/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
26) 1,2-Dichloroethane-d4	6.03	65	58960	4.62	uq/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.40%
32) Benzene-d6	6.04	84	177704	5.24	uq/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.80%
36) 1,2-Dichloropropane-d6	7.37	67	55379	5.64	uq/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	112.80%
41) Toluene-d8	8.70	98	157552	4.71	uq/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.20%
45) trans-1,3-Dichloropropene-	8.99	79	24755	4.69	uq/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.80%
48) 2-Hexanone-d5	9.43	63	116723	65.98	uq/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	131.96%#
59) 1,1,2,2-Tetrachloroethane-	11.23	84	45173	5.66	uq/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	113.20%
65) 1,2-Dichlorobenzene-d4	12.36	152	67770	5.09	uq/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.80%

Target Compounds

					Ovalue
5) Vinyl chloride	1.39	62	443	0.055 uq/L #	1
6) Bromomethane	1.64	94	400	0.085 uq/L	91
8) Chloroethane	1.79	64	1002	0.207 uq/L #	58
13) Acetone	2.45	43	7899	6.383 uq/L	94
14) Carbon disulfide	2.55	76	4912	0.213 uq/L	99
15) Methyl Acetate	2.87	43	7583745	2493.215 uq/L #	48
16) Methylene chloride	2.83	84	6695	0.749 uq/L #	1
17) Methyl tert-butyl Ether	3.16	73	3195	0.168 uq/L #	1
19) 1,1-Dichloroethane	3.52	63	94698	6.750 uq/L #	1
21) 2-Butanone	4.67	43	11190	6.211 uq/L	93
30) Cyclohexane	5.55	56	669617	59.766 uq/L	98
35) Methylcyclohexane	7.44	83	21862	1.827 uq/L	93
42) Toluene	8.76	91	16816	0.537 uq/L	97
43) 1,3,5-Trimethylbenzene	11.49	105	1121022	37.854 uq/L	98
44) 1,2,4-Trimethylbenzene	11.79	105	3027916	100.733 uq/L	99
50) 2-Hexanone	9.48	43	4942	1.640 uq/L #	85
53) Chlorobenzene	10.12	112	1577	0.074 ug/L	89

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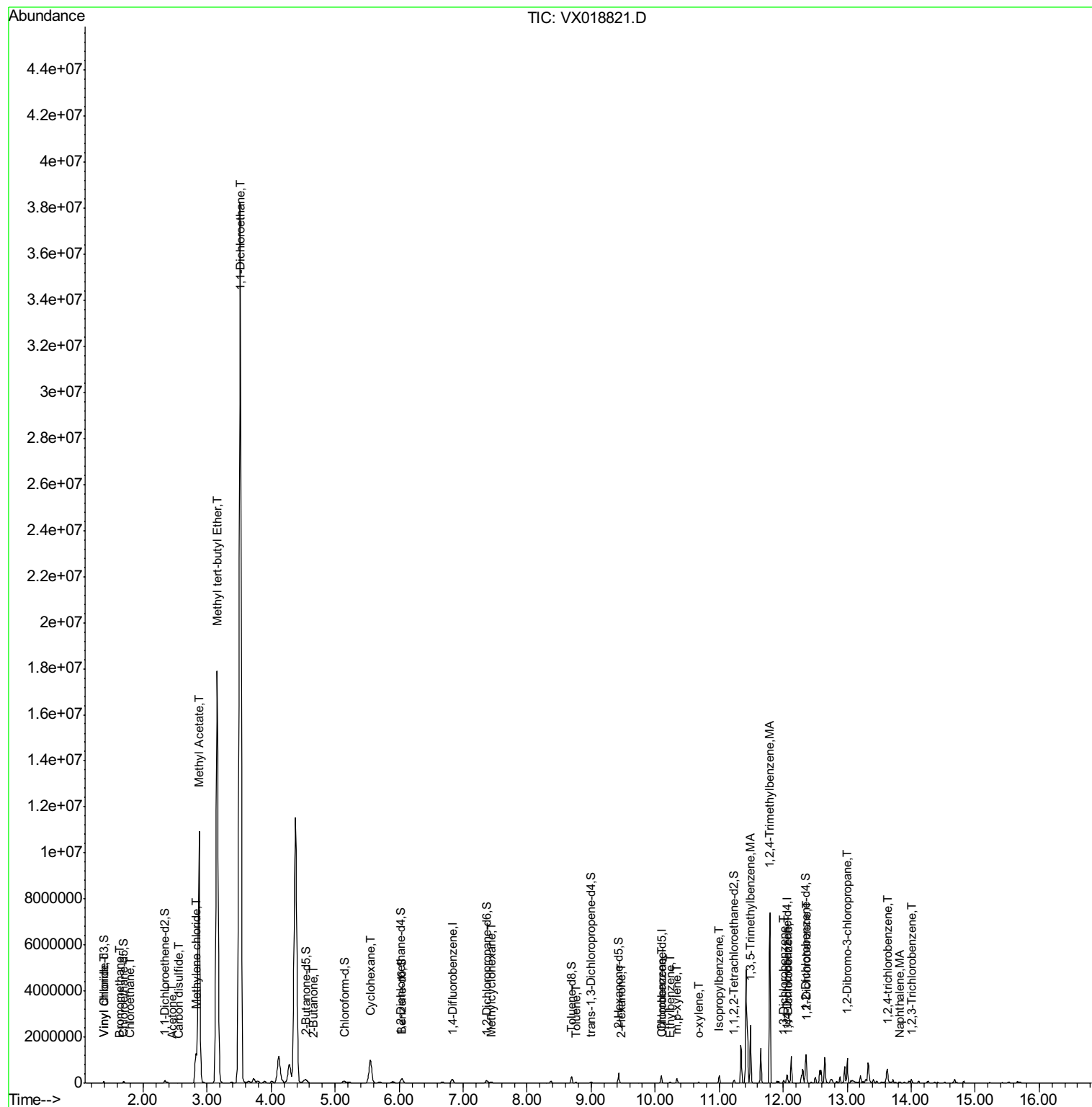
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	10.24	91	22702	0.647	ug/L	92
55) m,p-xylene	10.34	106	44319	3.239	ug/L	97
56) o-xylene	10.68	106	5148	0.407	ug/L	96
58) Isopropylbenzene	11.00	105	157810	4.458	ug/L	98
63) 1,3-Dichlorobenzene	12.01	146	3058	0.174	ug/L	92
64) 1,4-Dichlorobenzene	12.08	146	6996	0.400	ug/L	95
66) 1,2-Dichlorobenzene	12.37	146	1714	0.105	ug/L #	87
67) 1,2-Dibromo-3-chloropropan	13.00	75	3851	2.758	ug/L #	7
69) 1,2,4-trichlorobenzene	13.63	180	102003	9.097	ug/L	95
70) Naphthalene	13.82	128	21074	1.150	ug/L #	93
71) 1,2,3-Trichlorobenzene	14.00	180	29133	2.888	ug/L	96

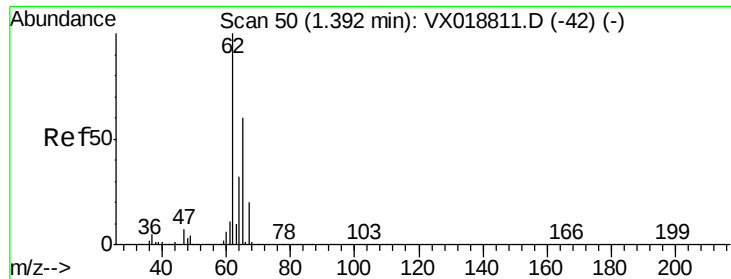
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.055 ug/L

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

Instrument :

MSVOA_X

ClientSampleId :

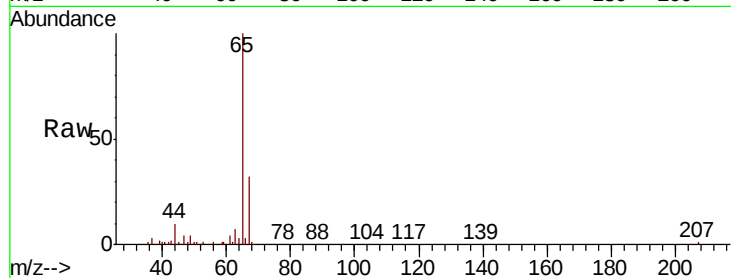
OK-01-100620

Tot Ion: 62 Resp: 443

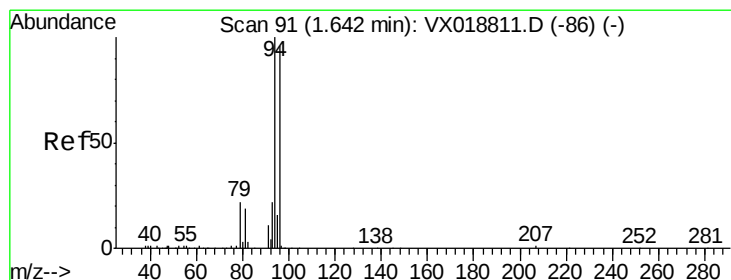
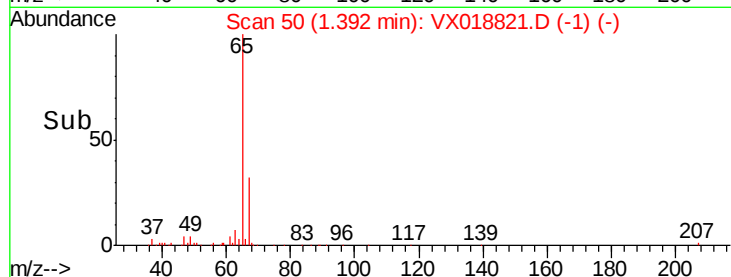
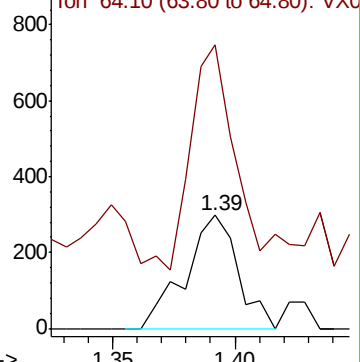
Ion Ratio Lower Upper

62 100

64 250.7 24.3 45.1#



Abundance Ion 62.00 (61.70 to 62.70): VX0



#6

Bromomethane

Concen: 0.085 ug/L

RT: 1.64 min Scan# 91

Delta R.T. -0.00 min

Lab File: VX018821.D

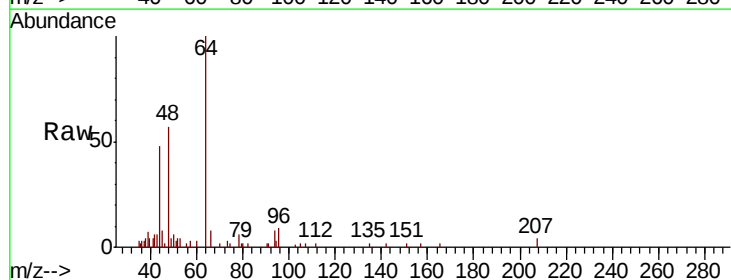
Acq: 07 Oct 2020 19:22

Tgt Ion: 94 Resp: 400

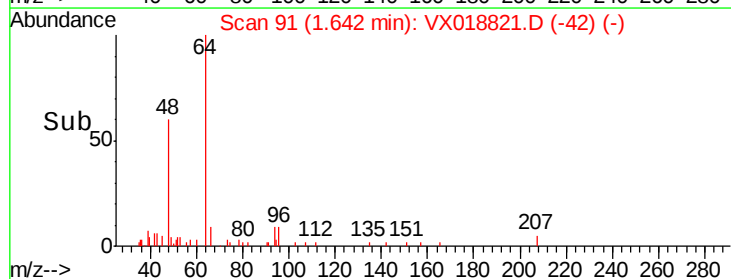
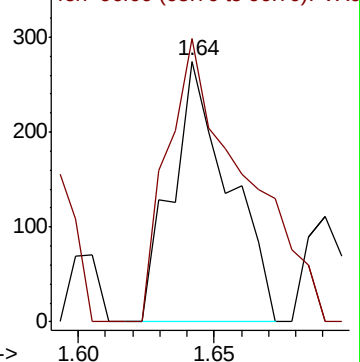
Ion Ratio Lower Upper

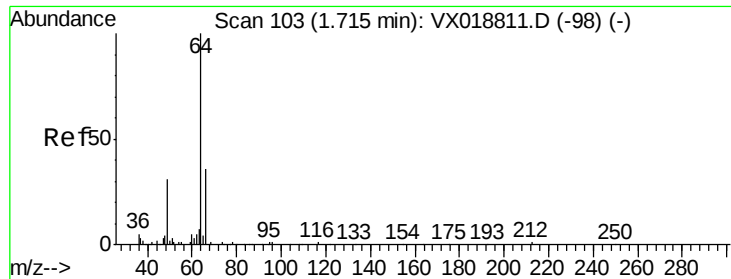
94 100

96 82.1 63.5 117.9



Abundance Ion 94.00 (93.70 to 94.70): VX0





#8

Chloroethane

Concen: 0.207 ug/L

RT: 1.79 min Scan# 115

Delta R.T. 0.07 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

Instrument :

MSVOA_X

ClientSampleId :

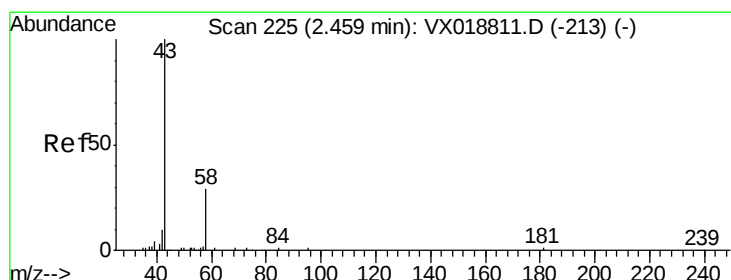
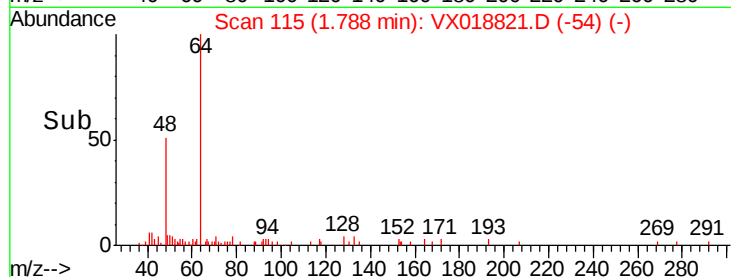
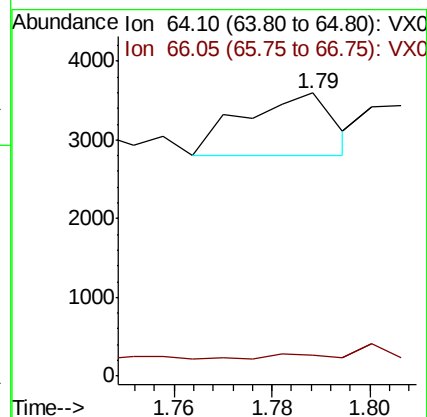
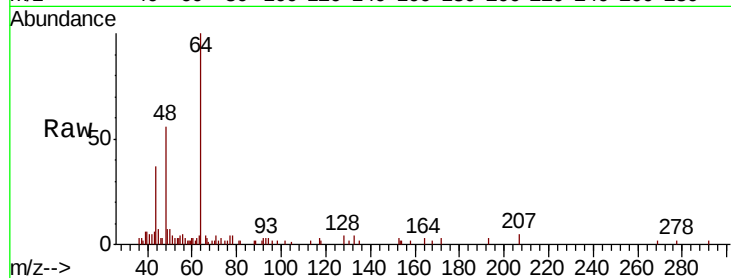
OK-01-100620

Tot Ion: 64 Resp: 1002

Ion Ratio Lower Upper

64 100

66 7.6 21.5 39.9#



#13

Acetone

Concen: 6.383 ug/L

RT: 2.45 min Scan# 223

Delta R.T. -0.01 min

Lab File: VX018821.D

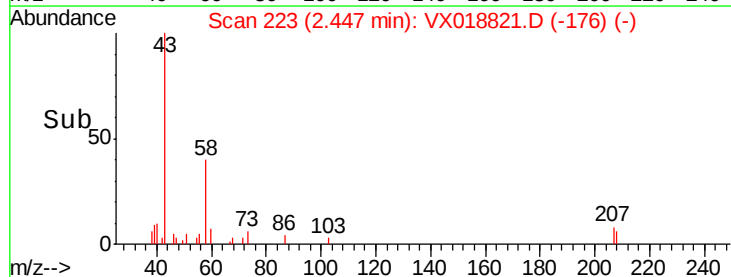
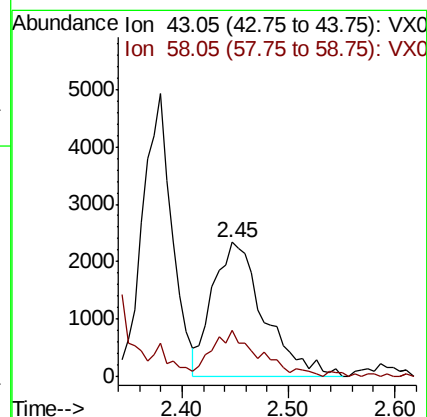
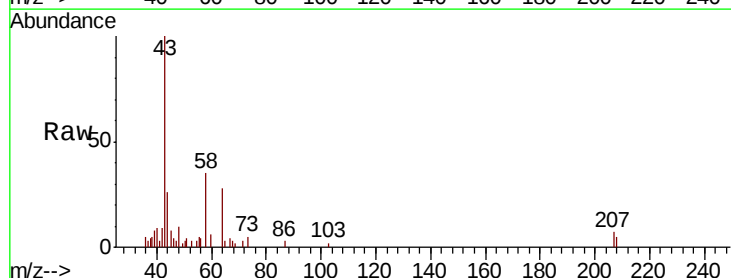
Acq: 07 Oct 2020 19:22

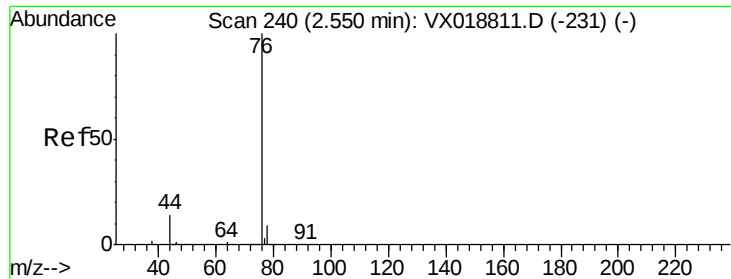
Tgt Ion: 43 Resp: 7899

Ion Ratio Lower Upper

43 100

58 25.0 0.0 56.4





#14

Carbon disulfide

Concen: 0.213 ug/L

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

Instrument :

MSVOA_X

ClientSampleId :

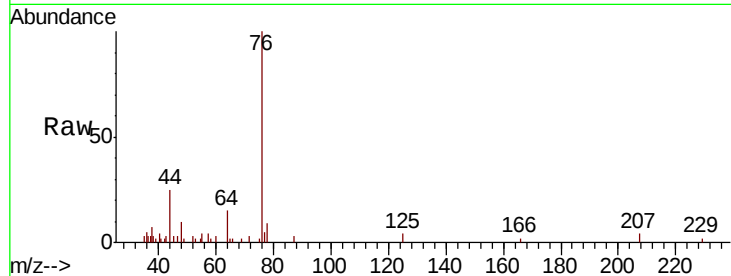
OK-01-100620

Tot Ion: 76 Resp: 4912

Ion Ratio Lower Upper

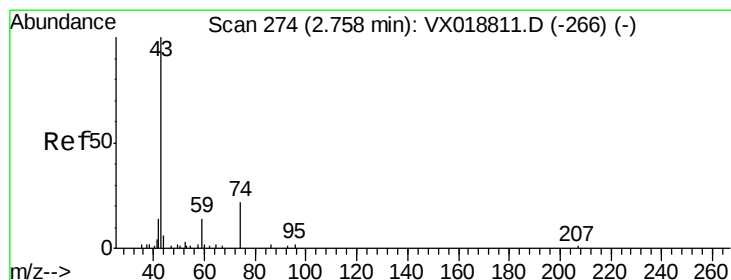
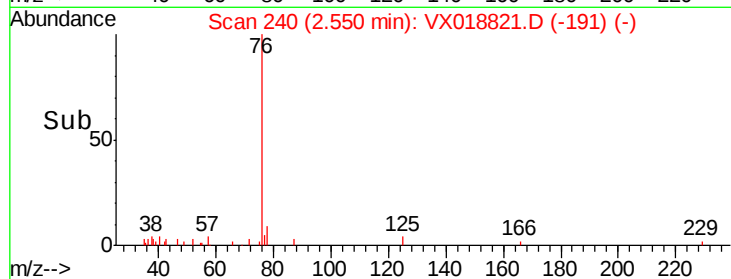
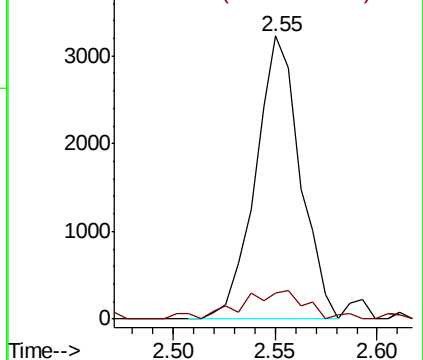
76 100

78 9.0 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VX0

Ion 78.00 (77.70 to 78.70): VX0



#15

Methyl Acetate

Concen: 2493.215 ug/L

RT: 2.87 min Scan# 293

Delta R.T. 0.12 min

Lab File: VX018821.D

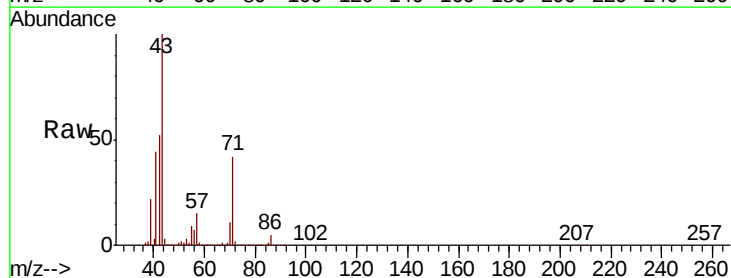
Acq: 07 Oct 2020 19:22

Tgt Ion: 43 Resp: 7583745

Ion Ratio Lower Upper

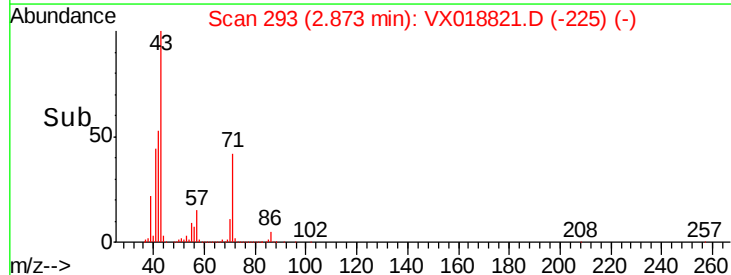
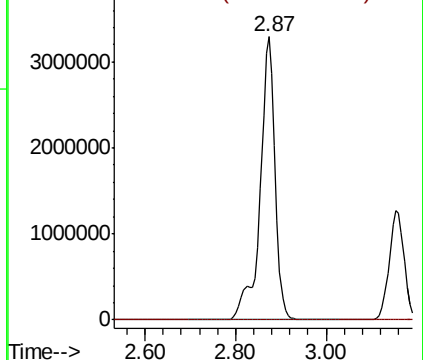
43 100

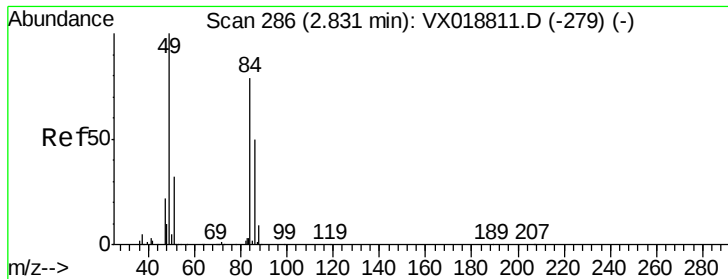
74 0.0 21.9 32.9#



Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 74.05 (73.75 to 74.75): VX0

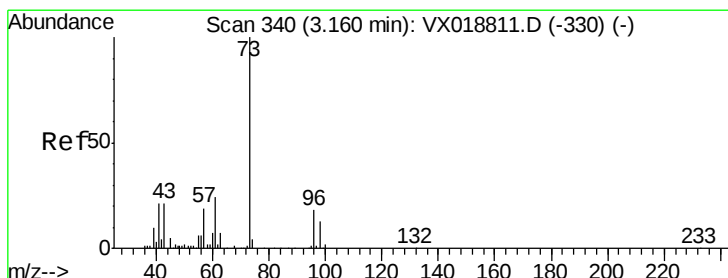
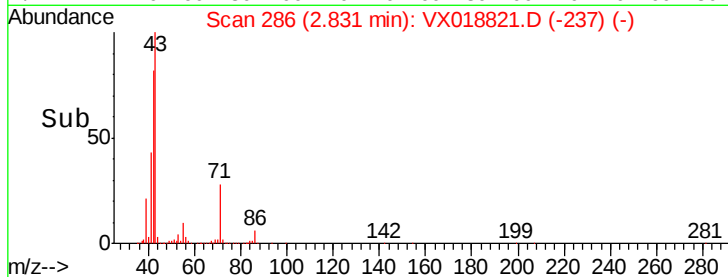
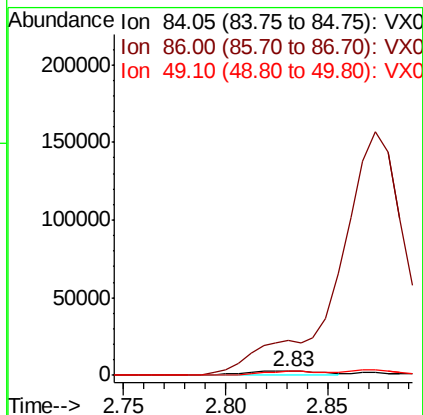
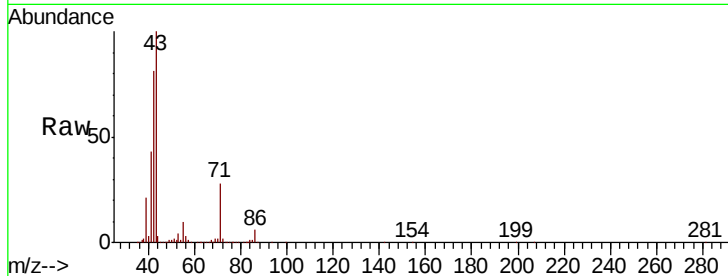




#16
Methvlene chloride
Concen: 0.749 ug/L
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX018821.D
Acq: 07 Oct 2020 19:22

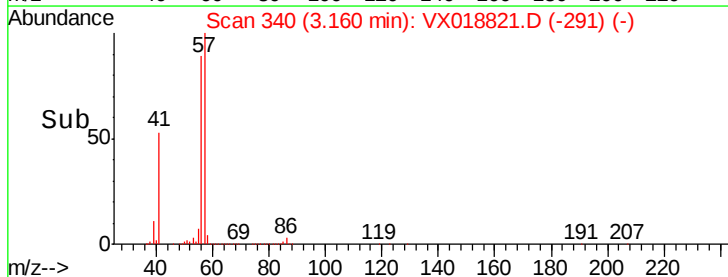
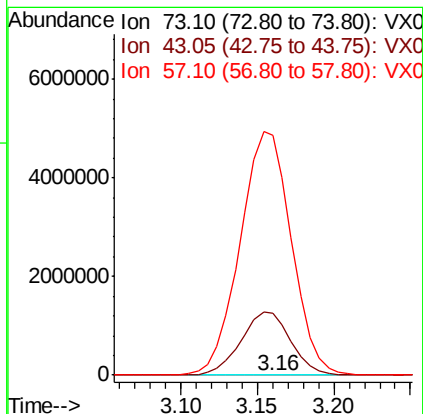
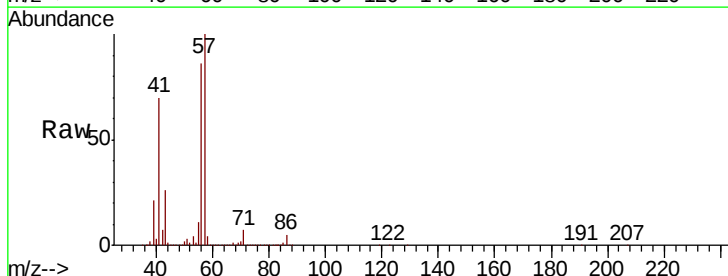
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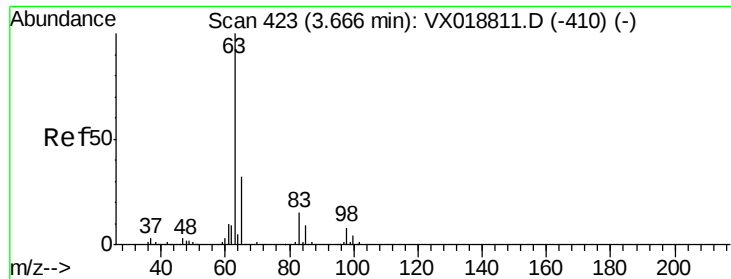
Tot Ion: 84 Resp: 6695
Ion Ratio Lower Upper
84 100
86 813.8 45.6 84.8#
49 101.4 85.8 159.3



#17
Methyl tert-butyl Ether
Concen: 0.168 ug/L
RT: 3.16 min Scan# 340
Delta R.T. -0.00 min
Lab File: VX018821.D
Acq: 07 Oct 2020 19:22

Tgt Ion: 73 Resp: 3195
Ion Ratio Lower Upper
73 100
43 90544.9 19.4 29.0#
57 360781.3 17.2 25.8#

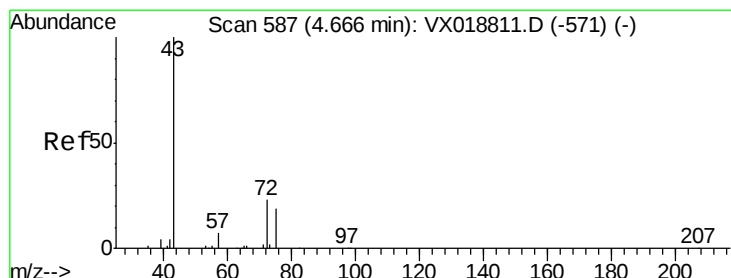
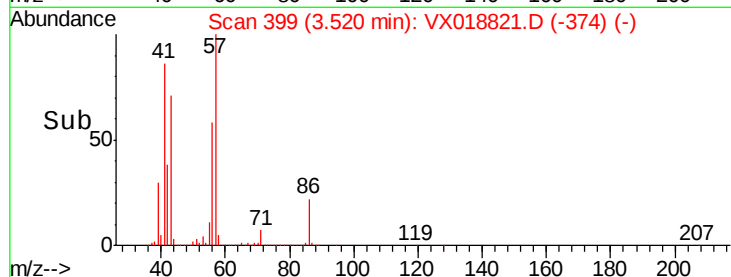
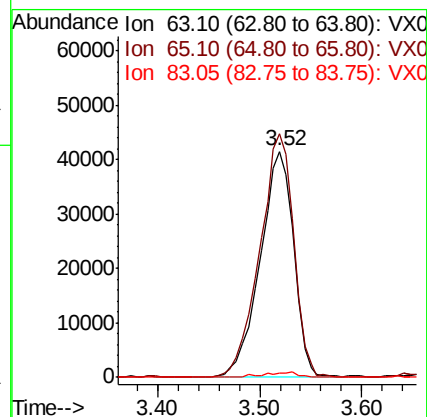
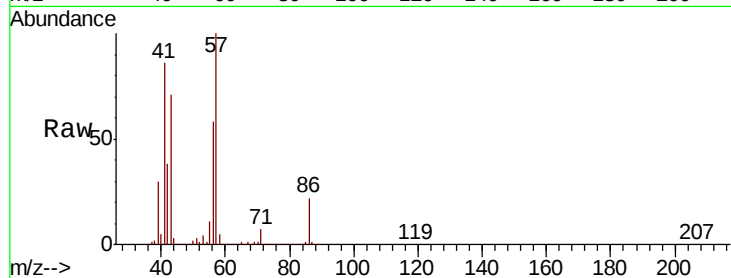




#19
 1,1-Dichloroethane
 Concen: 6.750 ug/L
 RT: 3.52 min Scan# 399
 Delta R.T. -0.15 min
 Lab File: VX018821.D
 Acq: 07 Oct 2020 19:22

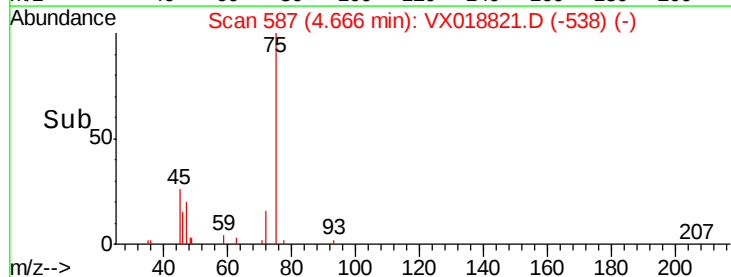
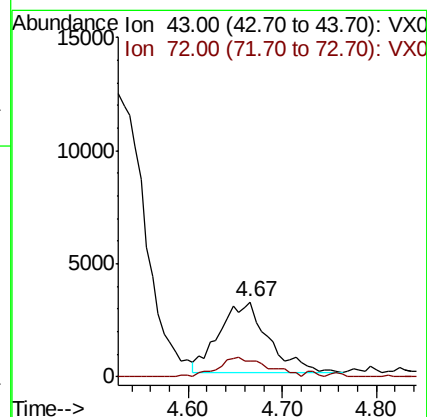
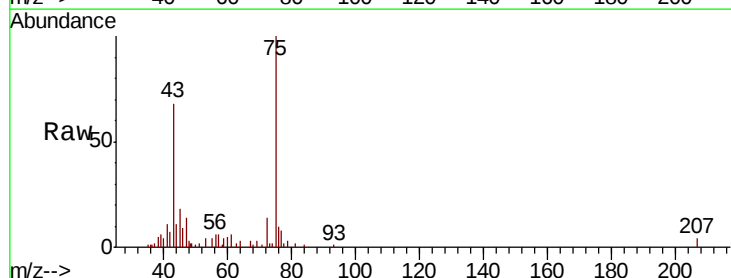
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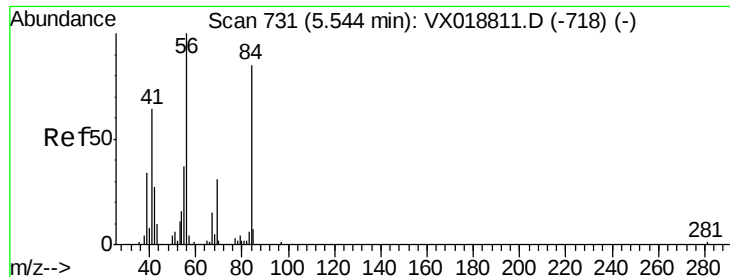
Tot Ion: 63 Resp: 94698
 Ion Ratio Lower Upper
 63 100
 65 107.7 21.6 40.2#
 83 2.0 8.7 16.1#



#21
 2-Butanone
 Concen: 6.211 ug/L
 RT: 4.67 min Scan# 587
 Delta R.T. -0.00 min
 Lab File: VX018821.D
 Acq: 07 Oct 2020 19:22

Tgt Ion: 43 Resp: 11190
 Ion Ratio Lower Upper
 43 100
 72 28.4 12.4 37.2

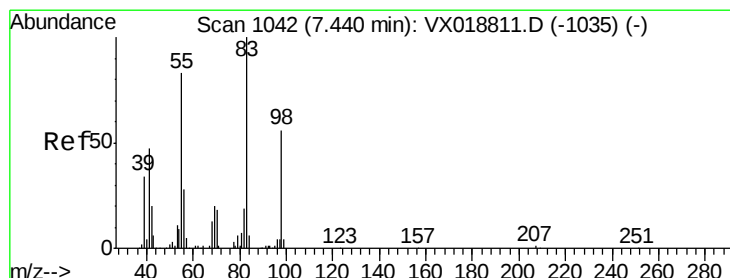
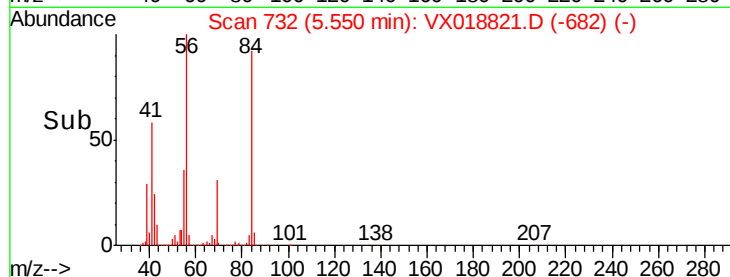
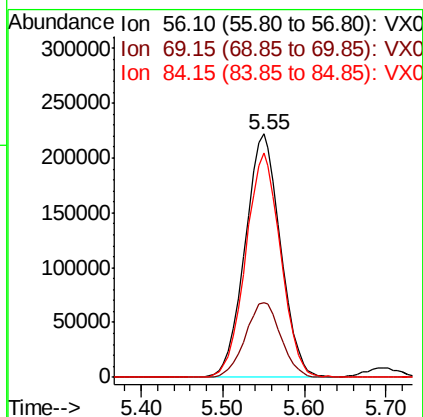
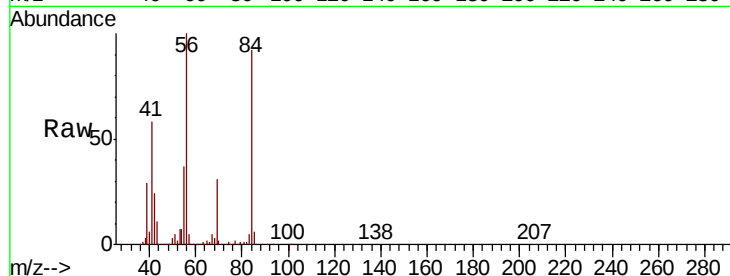




#30
Cyclohexane
Concen: 59.766 ug/L
RT: 5.55 min Scan# 732
Delta R.T. 0.01 min
Lab File: VX018821.D
Acq: 07 Oct 2020 19:22

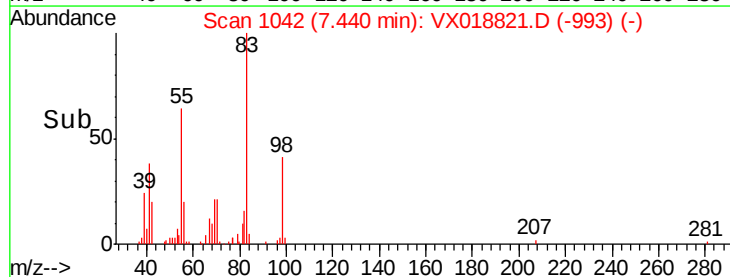
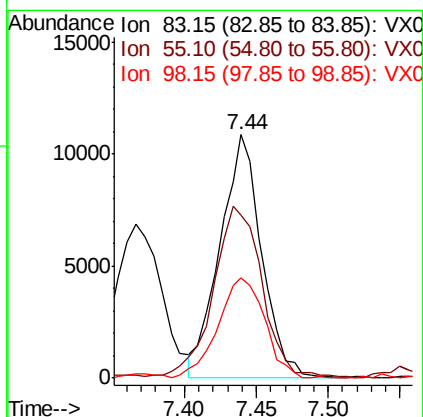
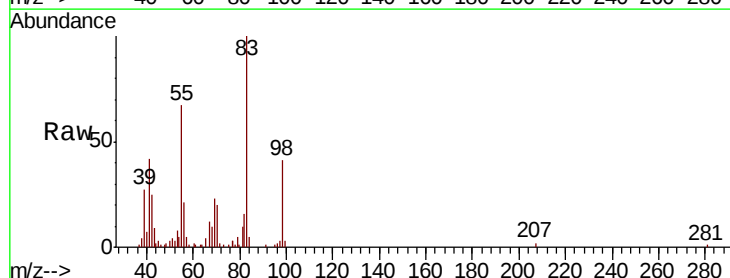
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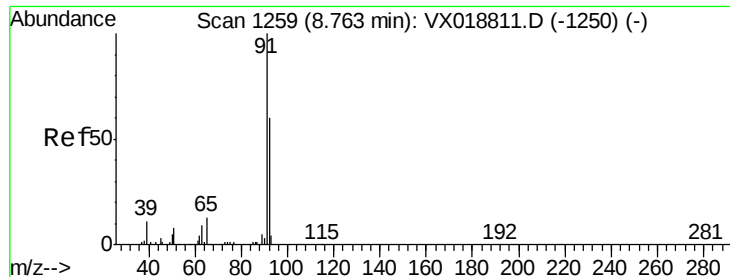
Tot Ion	Ratio	Lower	Upper
56	100		
69	30.8	26.0	39.0
84	91.1	73.8	110.6



#35
Methylcyclohexane
Concen: 1.827 ug/L
RT: 7.44 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VX018821.D
Acq: 07 Oct 2020 19:22

Tgt Ion	Ratio	Lower	Upper
83	100		
55	83.3	60.3	90.5
98	46.1	39.4	59.0





#42

Toluene

Concen: 0.537 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

Instrument :

MSVOA_X

ClientSampleId :

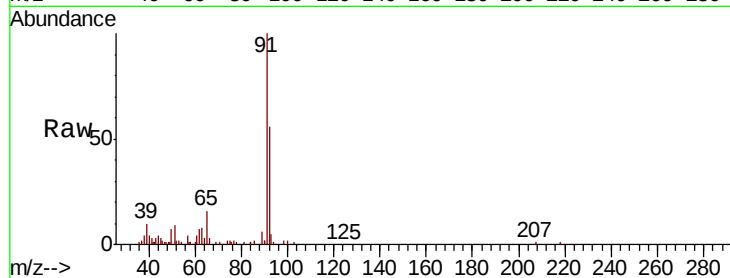
OK-01-100620

Tot Ion: 91 Resp: 16816

Ion Ratio Lower Upper

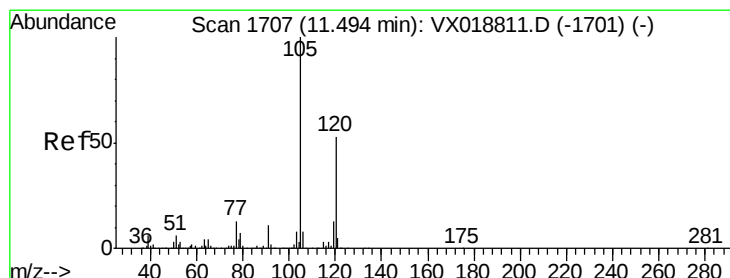
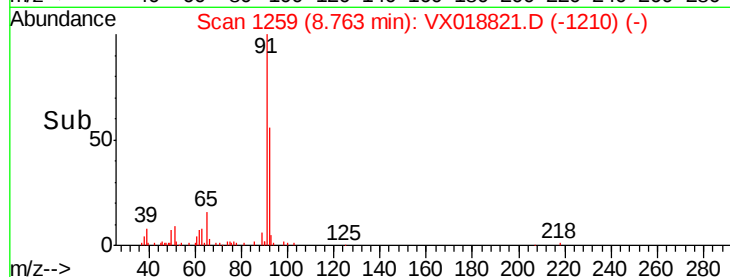
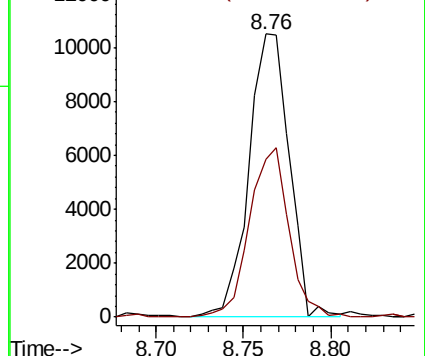
91 100

92 55.7 40.3 74.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 92.15 (91.85 to 92.85): VX0



#43

1,3,5-Trimethylbenzene

Concen: 37.854 ug/L

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX018821.D

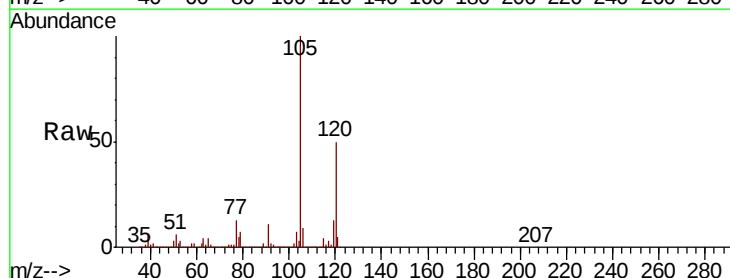
Acq: 07 Oct 2020 19:22

Tgt Ion:105 Resp: 1121022

Ion Ratio Lower Upper

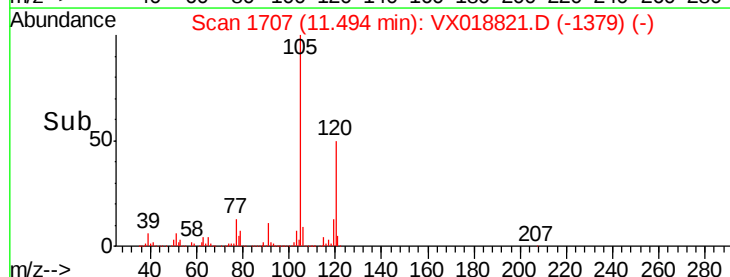
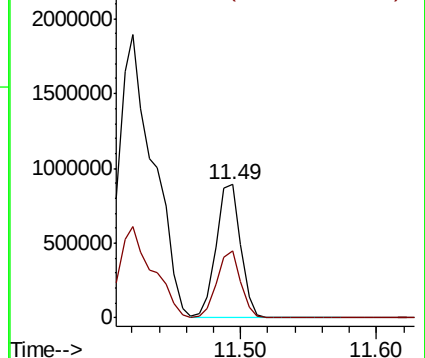
105 100

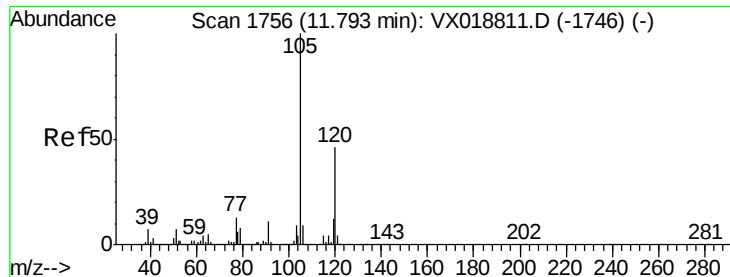
120 48.4 37.7 56.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#44

1,2,4-Trimethylbenzene

Concen: 100.733 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

Instrument :

MSVOA_X

ClientSampleId :

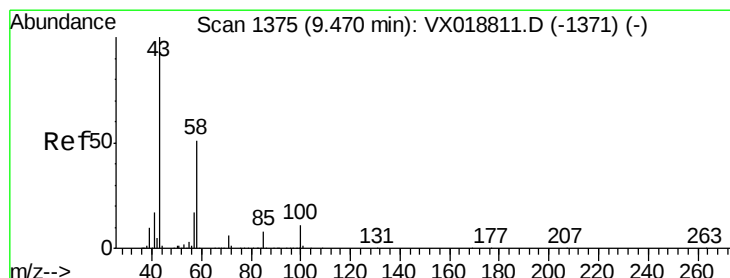
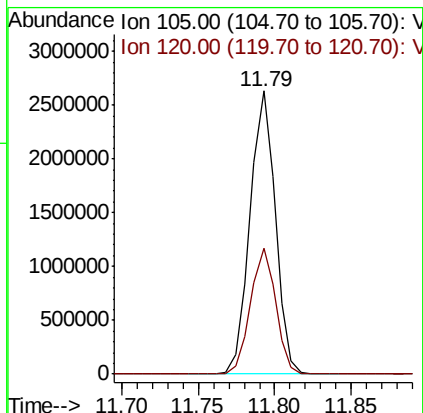
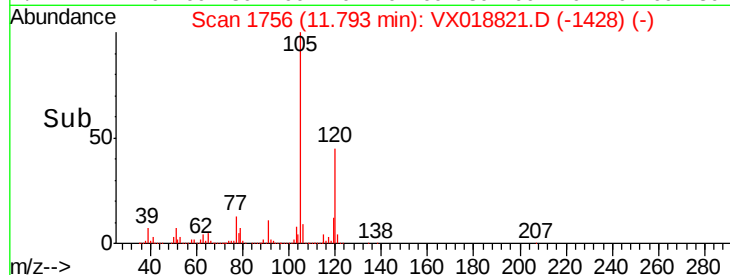
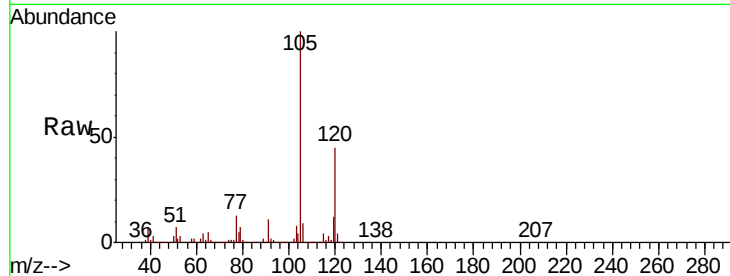
OK-01-100620

Tot Ion:105 Resp: 3027916

Ion Ratio Lower Upper

105 100

120 44.4 35.1 52.7



#50

2-Hexanone

Concen: 1.640 ug/L

RT: 9.48 min Scan# 1376

Delta R.T. 0.01 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

Tgt Ion: 43 Resp: 4942

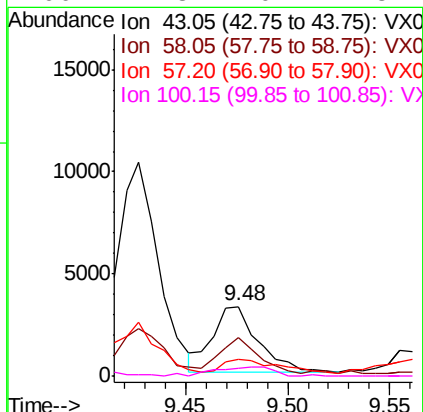
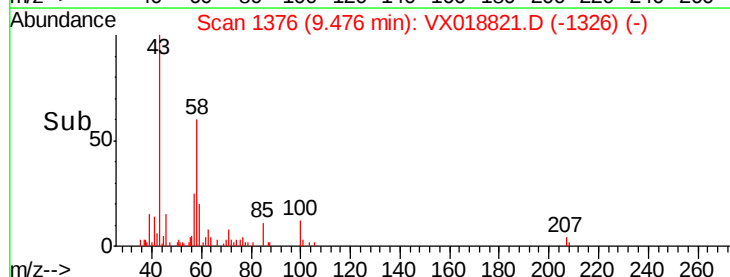
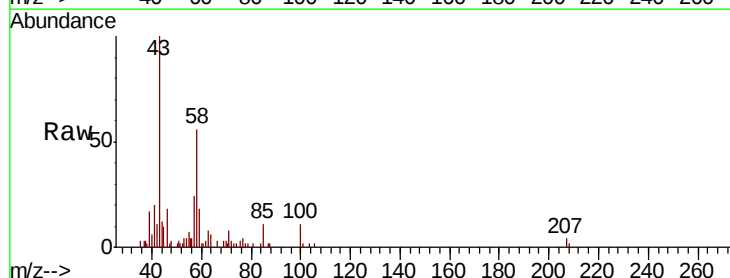
Ion Ratio Lower Upper

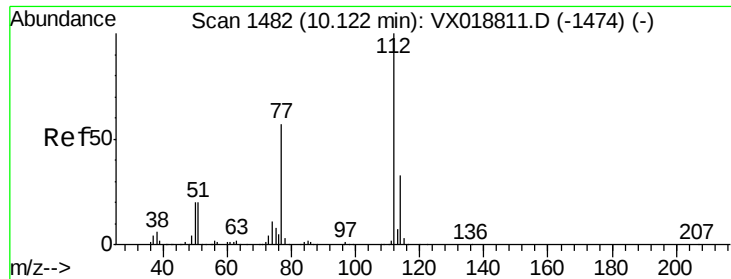
43 100

58 45.2 41.0 61.4

57 34.4 15.9 23.9#

100 17.8 10.1 15.1#





#53

Chlorobenzene

Concen: 0.074 ug/L

RT: 10.12 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

Instrument :

MSVOA_X

ClientSampled :

OK-01-100620

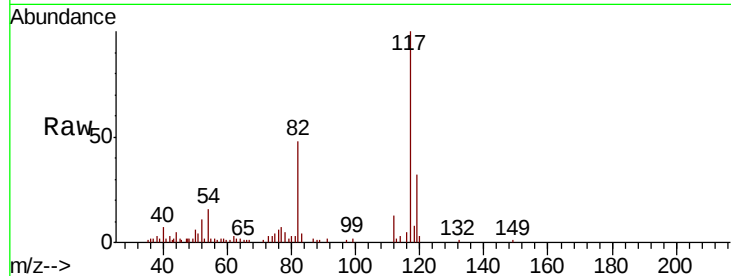
Tot Ion:112 Resp: 1577

Ion Ratio Lower Upper

112 100

114 21.9 21.3 39.5

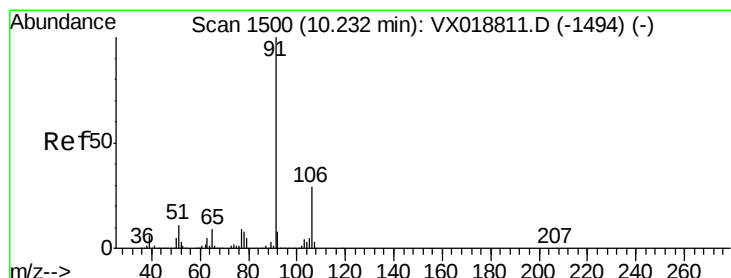
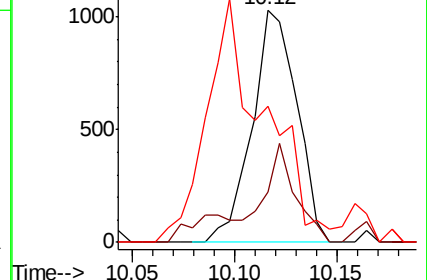
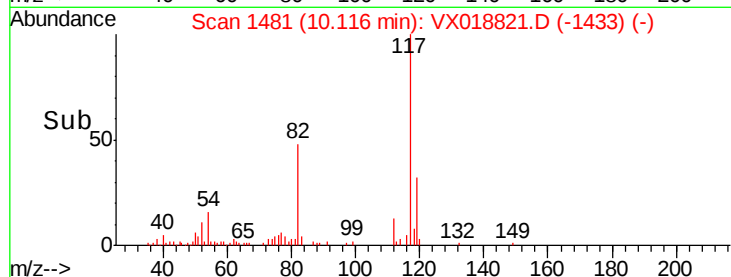
77 58.8 42.4 63.6



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#54

Ethylbenzene

Concen: 0.647 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX018821.D

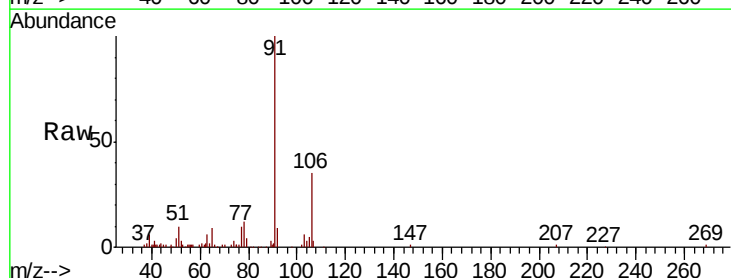
Acq: 07 Oct 2020 19:22

Tgt Ion: 91 Resp: 22702

Ion Ratio Lower Upper

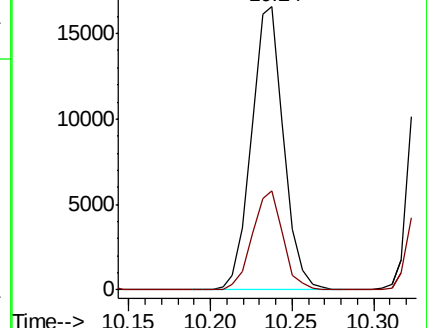
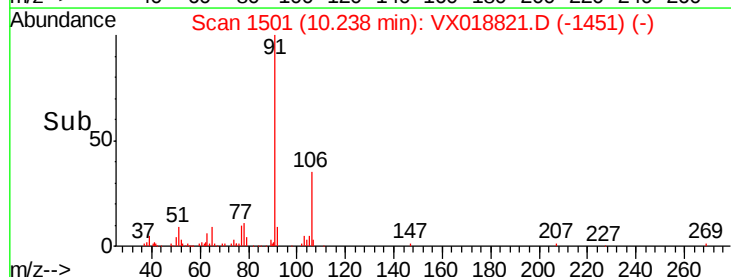
91 100

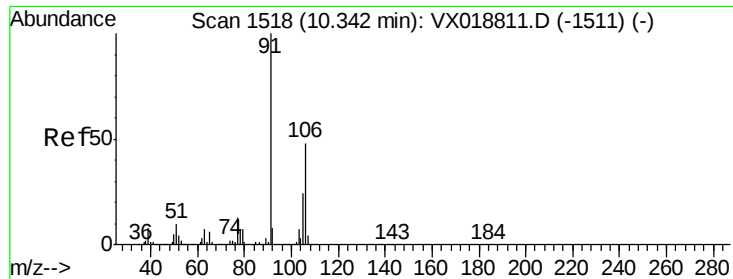
106 35.1 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V





#55

m,p-xylene

Concen: 3.239 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

Instrument :

MSVOA_X

ClientSampleId :

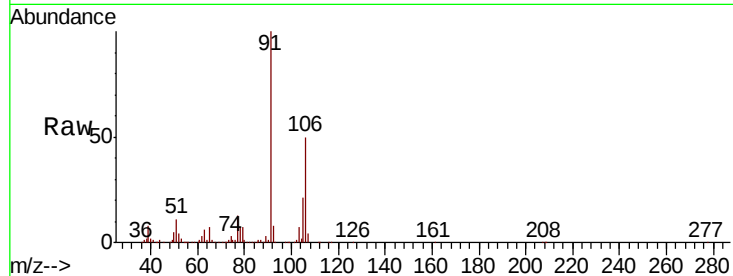
OK-01-100620

Tot Ion:106 Resp: 44319

Ion Ratio Lower Upper

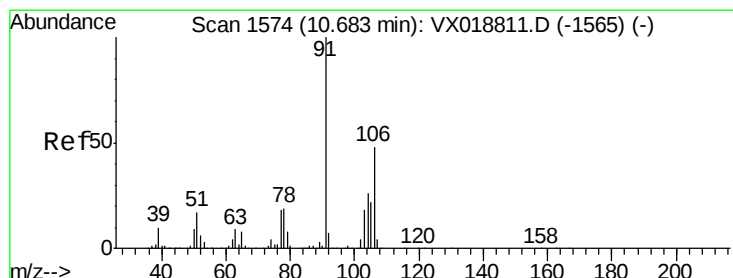
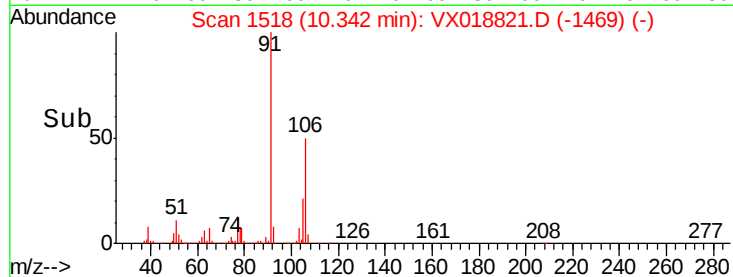
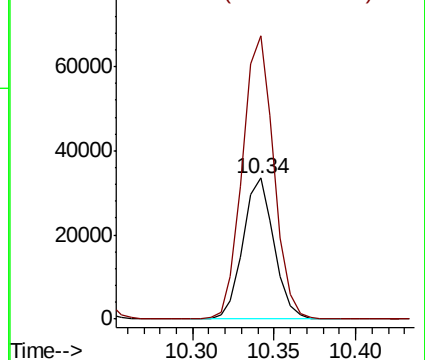
106 100

91 200.5 143.4 266.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#56

o-xylene

Concen: 0.407 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX018821.D

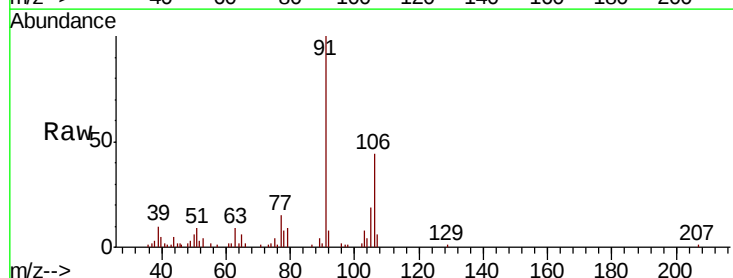
Acq: 07 Oct 2020 19:22

Tgt Ion:106 Resp: 5148

Ion Ratio Lower Upper

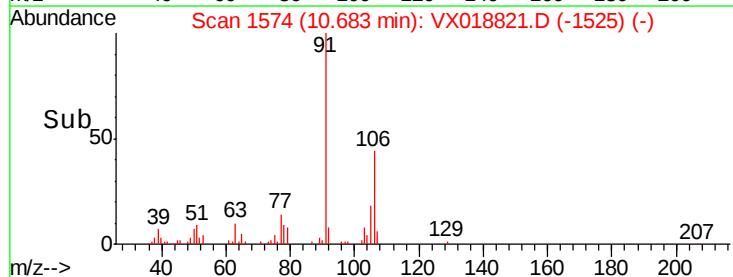
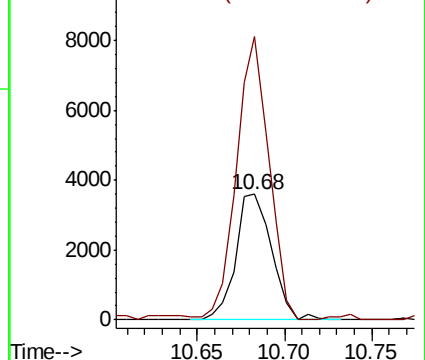
106 100

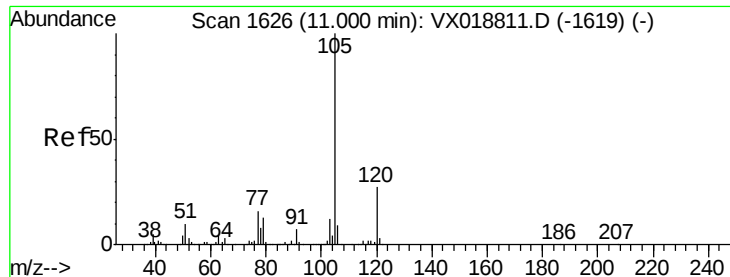
91 224.9 153.4 284.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0





#58

Isopropylbenzene

Concen: 4.458 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

Instrument :

MSVOA_X

ClientSampleId :

OK-01-100620

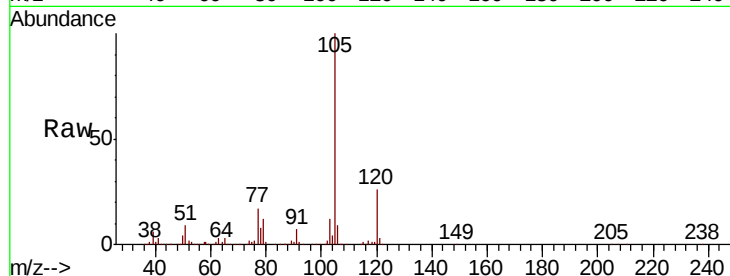
Tot Ion:105 Resp: 157810

Ion Ratio Lower Upper

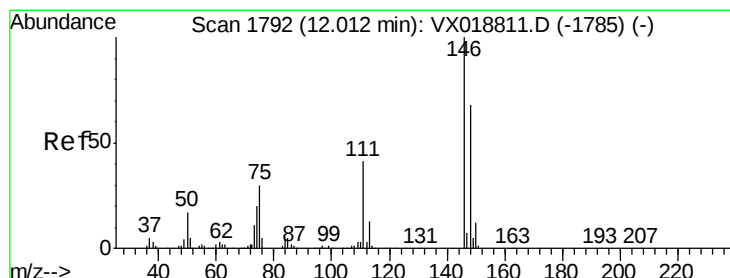
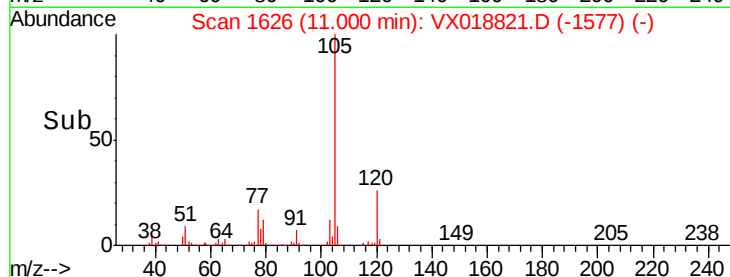
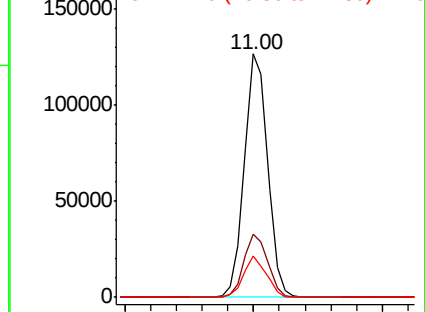
105 100

120 26.4 20.2 30.2

77 16.4 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): V



#63

1,3-Dichlorobenzene

Concen: 0.174 ug/L

RT: 12.01 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

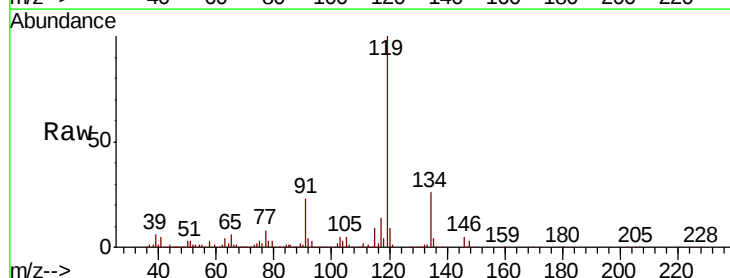
Tgt Ion:146 Resp: 3058

Ion Ratio Lower Upper

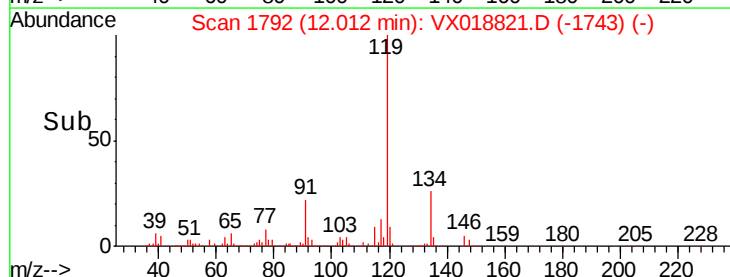
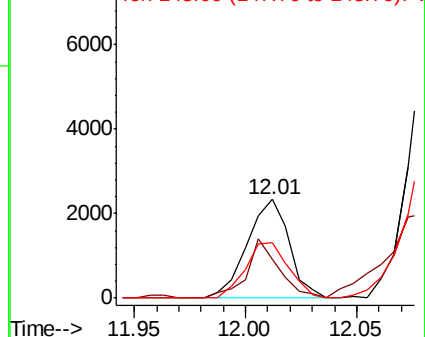
146 100

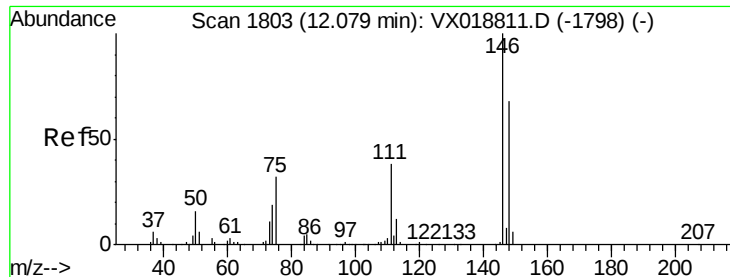
111 39.9 28.4 52.8

148 56.4 45.9 85.3



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 0.400 ug/L

RT: 12.08 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

Instrument :

MSVOA_X

ClientSampleId :

OK-01-100620

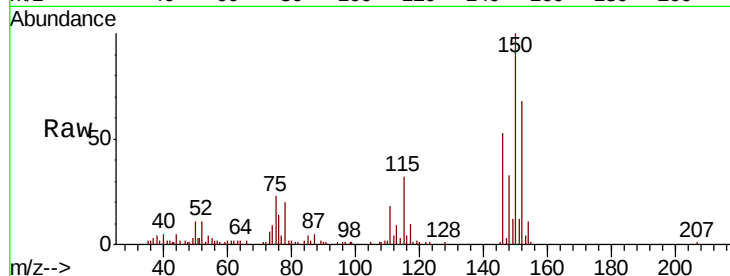
Tot Ion:146 Resp: 6996

Ion Ratio Lower Upper

146 100

111 34.8 28.6 53.2

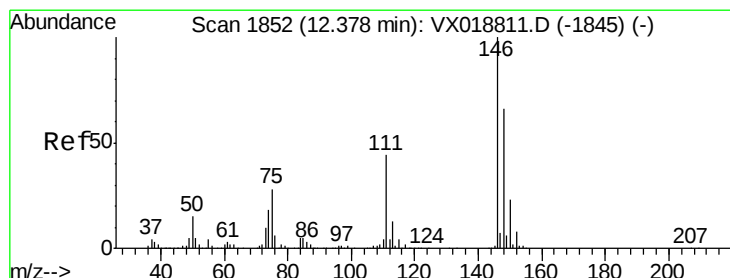
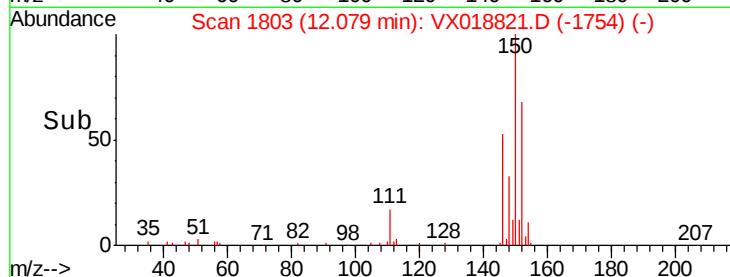
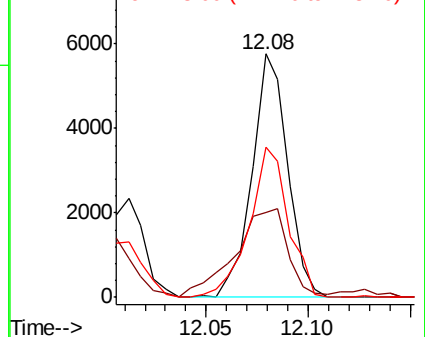
148 61.9 44.2 82.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dichlorobenzene

Concen: 0.105 ug/L

RT: 12.37 min Scan# 1851

Delta R.T. -0.01 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

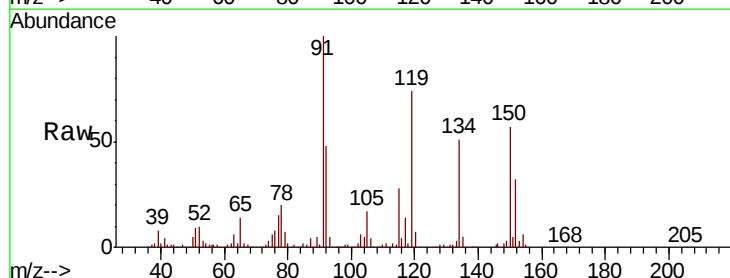
Tgt Ion:146 Resp: 1714

Ion Ratio Lower Upper

146 100

111 54.3 31.7 47.5#

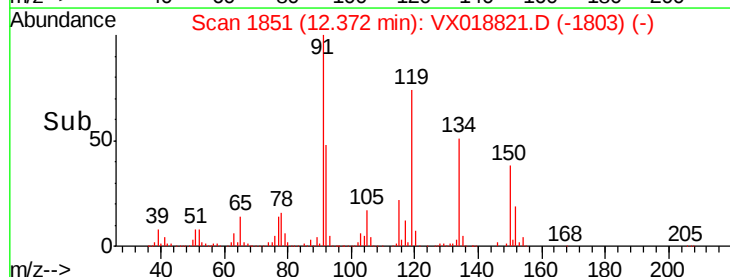
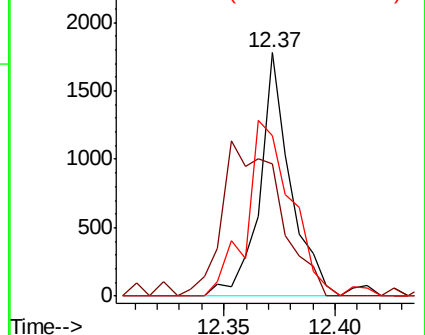
148 65.8 49.0 73.6

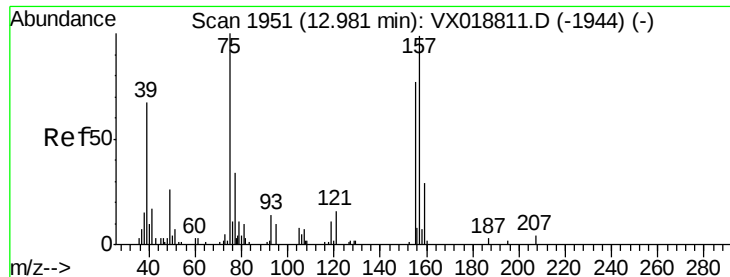


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#67

1,2-Dibromo-3-chloropropane

Concen: 2.758 ug/L

RT: 13.00 min Scan# 1954

Delta R.T. 0.02 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

Instrument :

MSVOA_X

ClientSampleId :

OK-01-100620

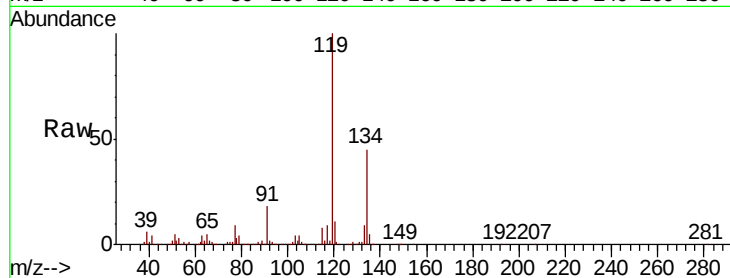
Tot Ion: 75 Resp: 3851

Ion Ratio Lower Upper

75 100

155 0.0 61.1 91.7#

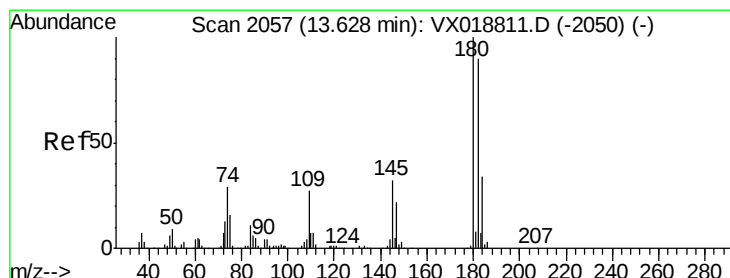
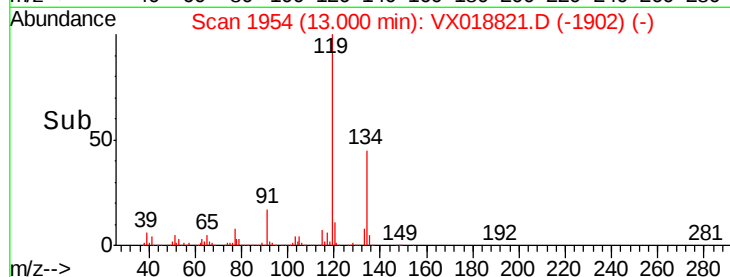
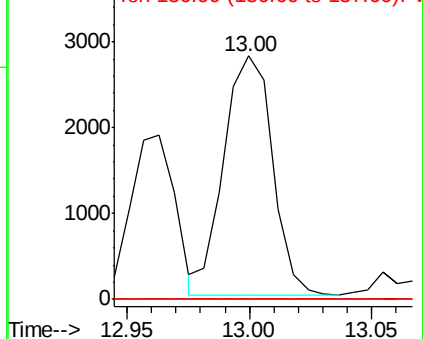
157 0.0 74.2 111.2#



Abundance Ion 75.05 (74.75 to 75.75): VX0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V



#69

1,2,4-trichlorobenzene

Concen: 9.097 ug/L

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

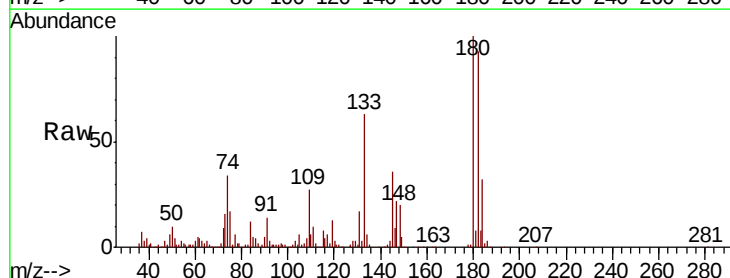
Tgt Ion: 180 Resp: 102003

Ion Ratio Lower Upper

180 100

182 95.8 80.2 120.4

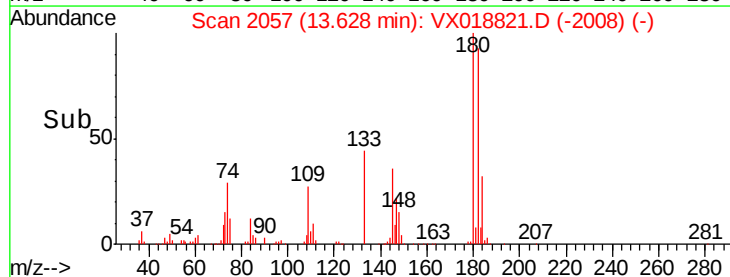
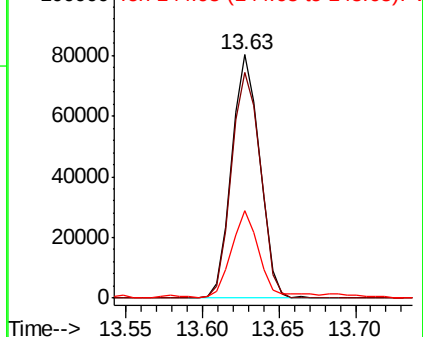
145 35.4 25.2 37.8

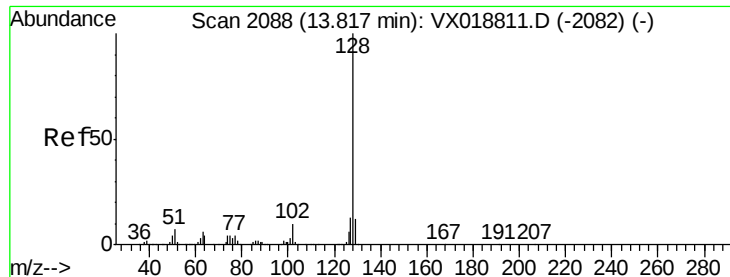


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#70

Naphthalene

Concen: 1.150 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

Instrument :

MSVOA_X

ClientSampleId :

OK-01-100620

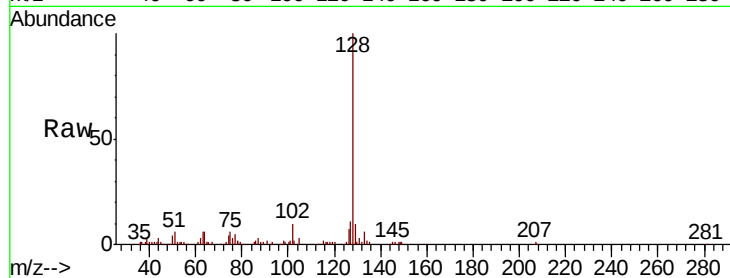
Tot Ion:128 Resp: 21074

Ion Ratio Lower Upper

128 100

129 15.5 9.0 13.4#

127 14.2 10.5 15.7

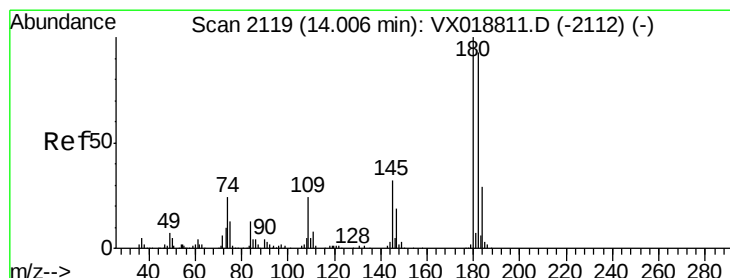
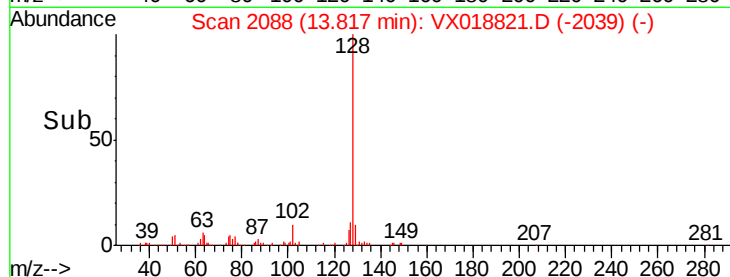
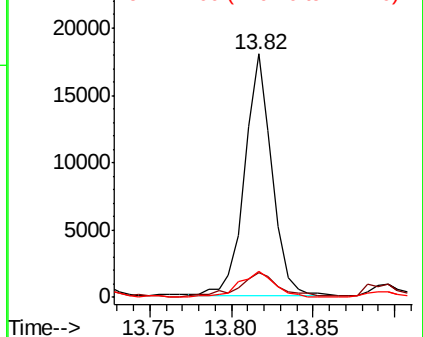


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#71

1,2,3-Trichlorobenzene

Concen: 2.888 ug/L

RT: 14.00 min Scan# 2118

Delta R.T. -0.01 min

Lab File: VX018821.D

Acq: 07 Oct 2020 19:22

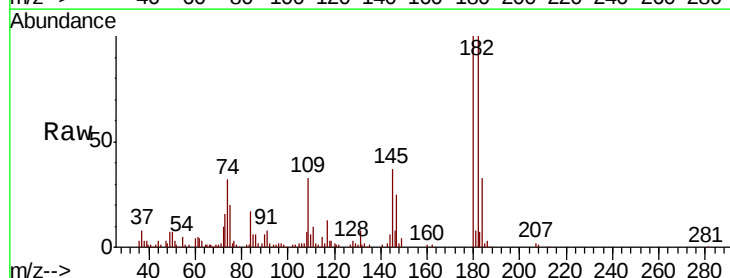
Tgt Ion:180 Resp: 29133

Ion Ratio Lower Upper

180 100

182 97.0 73.6 110.4

145 34.5 26.6 40.0



Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

